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\\\\\ WORLDWIDE UTE NEWS ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ Vol. 2, No.01 January, 1996 ////
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subscribe wun your@own.address

If you have problems with this, contact Rick Baker at:
utelistner@msn.com or ae411@yfn.ysu.edu

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN International HQ, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of US$1.50 per issue.

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From your Electronic Editor:

* Welcome to First Anniversary issue of the single largest source of utility station information in the world...the WUN Newsletter. At age 1 we are better than ever!

WHAT'S INSIDE:

o Membership News by Mike Wolfson
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o The WUN Logs Column by R.D. Baker & Tim Dobbins

It seems like yesterday that with the loss of the Speedx Club as a final straw, several of us ute folks started chatting by e-mail mourning our loss. It was about this same time that word leaked out that Popular Communications was going to drop Robert Margolis's 'RTTY' column. The utility folks were taking it hard on the chin!

For about a year, I had maintained a one-way mail alias, where I would send out any good snags I found, or that others sent me. Taking that idea and then an offer from Joel Bedard, who was on that ute e-mail alias list, and some pushing from Jim Pogue, Tim Braun, Jason Berri and Jim Navary...WUN was born. It was January 1995. Ary Boender, brand new to the internet world, was snagged as our digital guy. We found Tony Orr lurking in cyberspace and being very impressed with his international knowledge, we promised him large sums of money to write our aero column (yes Tony...we lied about the money). Mike Wolfson was brought in to originally do the 'Government and Other SSB News' catch all column, which died due to a lack of contributors. Mike went on to become our Membership Director (a fairly easy job when there are no dues to be charge!). Jason Berri, our former Speedx membership guy, came on as our official WUN Worldwide Web site coordinator. Jim Navary took two columns

(Nautical News and QSL's); Jim Pogue took the Military column, Tim Braun brought his prior newsletter publishing experience to the table, and I took the Logs column and Review column (we ran out of volunteers!).

With Joel firing up the listserver the first Worldwide UTE News newsletter came out in February, 1995. Less than 50 days after the idea was stated! The first newsletter was 147k in size (this one is almost 1/2 meg!). Other editors and staff came on board in the months ahead.

When Joel's 'phoque' listserver died, we could not find a 'free ride' and the membership came to the rescue donating funds to buy time on a commercial server. I had planned on printing the entire list of names here this month of those who donated. However, Tim Braun suffered a hard drive failure and about 7 or 8 of the names could not be read from the list. Rather than omit a few, I will just thank you all. You know who you are. Especially our mysterious donor of US$100.00! With our recent move to grove.net saving us even more thanks to the generous donation of listserver space by Grove Enterprises, we have funds to last us over three years with increased www size and ftp availability. We have some other plans in the works to help fund the list and other internet services of the club. A big Thanks to all who chipped in.

I see WUN continuing to gain members as more and more ute folks find out about us. I would hope that more of the members become involved in sharing what they hear. Only about 12% share logs right now as an example. It may be 'local' to you, but a great 'catch' to others! Thanks to all who have contributed. I'm sure all the members share in my thanks to the staff and editors who devote a great deal of time to bring you these services and monthly newsletters. Now on with the show....

Rick "RD" Baker

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

Welcome to 1996. Where does the time go? Its hard to believe that we're celebrating out first anniversary already. From very modest beginnings we've grown into an international group with hundreds of members.

The latest membership statistics are very impressive. As of the beginning of January, WUN had a membership of about 746. This is broken down as follows: 489 members are subscribed to WUN. We have 167 people subscribing to the WUNNEWS list and 30 people subscribing to WUNDIGEST. Tim Braun's having computer problems, so I don't know how many copies of the paper edition are going out this month, but it's around 30 now. There are about 30 members are various non-internet connected systems.

The country list of the membership continues to evolve. In one form or another, we have people from 26 countries represented in the membership. In addition to countries I've mentioned in the past, we also have members from Singapore and from Tunisia.

I would also like to thank those of you who have taken the time to respond to the membership survey request. Speaking of the survey, I've had a couple of requests for extracts of membership data for particular countries so that a particular member could contact other residents of the same country. I had to turn down those requests because of the pledge of confidentially we made when we originally asked for the information. It was suggested that I poll the membership and only release the information for those members agreeing to allow it.

I decided not to do that, though, because of the problems of keeping track of the list of people willing to have their information released and because of what would happen to the information once it was released. As an alternative, I suggested that the interested individuals put out a general call so that anyone interested in responding could do so.

For anyone considering sending me their information, here is how to do it. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested.

Here is the survey:

E-Mail Address

Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

That about covers things for January. I've been hearing reports that conditions have been improving lately. I hope that they're true. It definitely about time. Mike

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INTERNATIONAL CIVIL AERO

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Welcome again to another edition of International Civil Aero, brought to you by those wacky civil aero guys Tony Orr and Peter Ivakitsch. In this month's column, WUN member Vic Gubbins takes over editing the NEW AND IMPROVED selcal column, SELCAL CORNER, which incorporates MYSTERY SELCALS with a new, expanded tie-ups section which we hope you'll enjoy. We round out this month with an enlarged AIRLINE NEWS section and a look at one of the hottest frequencies around right now, 5670! Thanks to our contributors this month Wim de Mol, Vic Gubbins, Sir Thompson's Gazelle, Jerry Green, Steve McDonald, John Charlton and yours truly the Eds...read on for more Civil Aero Excitement!!!

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SELCAL CORNER

Hello WUNpersons- welcome to SELCAL CORNER, a new section of the ever growing WUN newsletter designed to increase your listening enjoyment by helping you identify those darned aircraft you listen to on HF. I'm Vic Gubbins, of Ontario, Canada and unfortunately I'm not internet-connected yet so please e-mail me via my old buddy Anthony Orr's e-mail address at the head of this civil aero section thanks.....

Starting here then with some tie-ups from last months WUN Mystery list:

ARFP	GES 061 DA900	EC-FEN		
BJHL	AOM 201	DC10	F-GTDH	
BMDR	FDX 4	MD11	N611FE	
BQEH	MPH 644 MD11	PH-MCT		
CMBD	WOA 117 DC10	N117WA	EX N3024W	
FGAH	EIA 951	B747	N482EV	
FGAL	EWW 887 DC8	N961R		
FHCE	DLH 8161	B747	N509MC	ATLAS AIR A/C
FSBL	SDC 021 G4	102001		SWEDISH A/F
GKDF	PAC 6216	B747	N835FT	
GKDJ	PAC 6216	B747	N850FT	
GREF	AUA 3335	A340	OE-LAH	
HJAB	CKT 077 DC10	OO-JOT		
HSJP	AEL 707 B767	EI-CLS		

* CLUES *

1. HQLR LOBO 825 This aircraft is definitely a C20 of the USN and with 3 selcals heard but needing tie-ups my guess for the series is:

CHMR	165094
HQKR	165152
HQLR	165153

if anyone can tie these up definitively please do let me know...

*** And now onto December 1995:

Mysteries outstanding-

BQER	MAH 93	B747?
HSGM	AEA 164	B757
AJGQ	ARU 721	MD80? (NB N12FQ / MD80 is BJGQ)

BJGM	DAL 261	B767-300ER	
BMRS	USA 1041	?	
DHLM	LADECO 361	?	
DMAH	AMT 7365	B727?	
ELAJ	ATN 659	DC8	
ELGM	MEA 2003	A310?	
FMKS	FDX 29	MD11	
HQBP	DAL 162	B767-300ER	
HRJS	USA 791	B757?	
HSFM	TAP 396	?	
KRBQ	TRANSBRASIL 770	B767?	

Mysteries tied-up (requested by Wim de Mol, Chris Swann, Sir Thompson's Gazelle, Big Joe, T.M.Himself and NM)

BJHL	AIR CALEDONIE 509	DC10	F-GTDH	
CEFL	CRL 926	DC10	F-GSUN	
CQLP	AAL 923	B757	N601AN	
FJDG	ALW 301	B767	HI-660CA	
FMPQ	TWE 155	B757	SE-DUK	EX TEJ XA-MMX
FPCS	CAA 135	B737	N406KW	
HKFG	AIC 758	A310	VT-EJL	
HSGK	AEA 115	B757	EC-GBX	
JKLM	CKT 077	DC10	G-BWIN	
JMAL	VRG 860	DC10	PP-VMY	
JSEP	CLX 775	B747	LX-ICV	
JSMQ	LDA 960	B767	OE-LAS	
AEGH	TWA 903	B767	N606TW	

*** a reshuffle of TWA B767 selcals has produced the following :

AEGK	N608TW	
AEGL	N650TW	
GLBE	N651TW	any additions to this list would be appreciated.

* CLUES *

BDKL	MTM 16	LR55	D-	This aircraft belongs to a German air taxi (callsign SNOOPY) and is definitely a Lr55.

* NEW SELCALS FOR JANUARY *

ABFG	QTR	B747	A7-ABL
BGFH	MEA	A310	F-OHLH
BJAD	OOE	L1011	SE-DPV
BJGR	MAS	B744	9M-MPH
BJKL	CKS	L1011	N104CK
CKHL	?	146	J8-VBA
CLAF	SCX	DC10	N600GC
CMBH	COA	DC10	N392EA
DGBM	CKS	L1011	N106CK
DJLQ	ETH	B757	ET-AKC
DSAM	TAP	A340	CS-TOC
EFLM	BES	DA50	F-GGCP
ELDH	OAL	A300	SX-BEH
EMBC	SCX	DC10	N601GC
EQGH	KLM	B767	PH-BZA
EQGJ	KLM	B767	PH-BZB
FGKS	FDX	A300	N661FE
FHCR	FDX	MD11	N616FE
FHCS	FDX	MD11	N617FE
FJDK	SCX	DC10	N907WA
FLBG	SVA	C130	HZ-114
FMDE	APA	DC9	N9333
GHJL	TRADEWINDS L1011		N311EA
GJDS	BAW	B777	G-ZZZE
GLFK	SJM	B747	N745SJ
GMDK	EWW	DC8	N8087U
GMFH	EWW	DC8	N105WP
GRLP	LTU	A330	D-AERG
HKAB	CCS	DC8	EC-GEE
HLDS	LDA	CL65	OE-LRF
HMGR	ACA	A340	C-FTNP

HREG	FDX	A310	N418FE
HREJ	FDX	A310	N419FE
HREK	FDX	A310	N420FE
HREL	FDX	A310	N421FE
HREM	FDX	A310	N422FE
JQFR	AWD?	A320	G-BWCP
JMDS	MPH	B767	PH-MCV
KMDE	APW	DC8	N1804
KQAS	RIA	L1011	N305GB
KQDE	AMT	B757	N755AT
LQBR	EBA	B737	OO-LTO
LQBS	EBA	B737	OO-LTU
LQCM	EBA	B737	OO-LTX

And that is it! If you can add/amend or indeed help with any new selcals please e-mail me via Anthony's address above. Thanks again and see you next month WUNpersons! Vic

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Here's a very brief article sent in by WUNner Jerry Green. Thanks Jerry and perhaps this is the testing that was heard by various WUN members awhile back:

ARINC OFFERS NEW HF DATA LINK SERVICE
October 11, 1995
Annapolis, Maryland, USA, October 11, 1995. -- ARINC Incorporated today announced that it will begin offering its GLOBALink/High Frequency (HF) service in the North Atlantic beginning November 1, 1995. GLOBALink/HF is an air/ground data link service using HF frequencies to enable ACARS-equipped aircraft to communicate with the ground over oceans and other remote areas where traditional very high frequency (VHF) line-of-sight communications are not available. It allows users in previously inaccessible areas to access the full range of ACARS services available to VHF service users. The GLOBALink/HF service will use the HF data link ground infrastructure developed by AlliedSignal Commercial Avionic Systems of Redmond, Washington. AlliedSignal will continue to provide day-to-day operation of the system under contract to ARINC. The system, which has been operating since October 1992, has demonstrated excellent performance with greater than 95% success on first-attempt downlinks.

5670: A HOTBED OF ASIAN AERO ACTIVITY
For the past year, WUNners the world over have been reporting increasing civil aero activity on a previously unlisted frequency of 5670. If my memory serves me correctly, it was Bart Hoekstra in the Netherlands who first pointed this activity out to WUN. I have been able to compile the following list from a variety of loggings from WUN members Hoekstra, McDonald, de Mol, and John Charlton via snail mail. Thanks for your efforts guys!

Dhaka BANGLADESH, Madras INDIA, Kuala Lumpur MALAYSIA, Male MALDIVES, Colombo SRI LANKA and Yangon MYANMAR (BURMA)

I have also heard Nouakchott and Nouadhibou Aeradios operating on this frequency within the past few months, so perhaps with further monitoring we will be able to uncover more RDARA and MWARA stations operating here. If I have inadvertently left out any stations here, please do let me know!

TIP OF THE MONTH
Intrepid WUNner Wim de Mol of Wezep, the Netherlands also brings us this frequency for a bit of rare civil aero DX, 8948. Delhi, Nagpur, Bombay and Amedhabad Aeradios were all heard recently working regional flights at around 1400-1600 UTC.

AIRLINE NEWS
With peace in the former Yugoslavia now a real possibility, look for the resumption of scheduled service across the Atlantic by Jugoslovenski Aerotransport (JAT) in the very near future. To prepare yourself for this eventuality, here is the latest tentative "SUBJ GOVT APPROVAL" schedule for JAT:
JU 526 Belgrade-New York (JFK) DC10 Mon/Thu dep 1030 arr 1410

	with continuing service to Chicago (ORD)				
JU 527	New York (JFK)-Belgrade	DC10	Mon/Thu	dep 2300	arr 1325+1
	originating in Chicago (ORD)				
JU 530	Belgrade-New York (JFK)	DC10	Fri	dep 1420	arr 1800
JU 531	New York (JFK)-Belgrade	DC10	Fri	dep 2000	arr 1025+1
JU 524	Belgrade-Chicago (ORD)	DC10	Tue	dep 1530	arr 1850
JU 525	Chicago (ORD)-Belgrade	DC10	Tue	dep 2050	arr 1300+1
JU 560	Belgrade-Montreal (YMX)	DC10	Thu/Sat	dep 1500	arr 1810
	with continuing service to Toronto (YYZ)				
JU 561	Montreal (YMX)-Belgrade	DC10	Fri/Sat	dep 0125	arr 1520
	originating in Toronto (YYZ)				

We have a few changes to note over the oggin this month including British Airways Concorde service from London (Heathrow) to Bridgetown, Barbados. SSC service BA272/273 now switches to Saturdays only, BA273 departure from LHR scheduled at 0930 with arrival BGI at 0945. The reutrn trip BA272 departs BGI 1330 with arrival time LHR 2145. Air Canada is now operating 767-300ERs on the following flights: AC844/845 YYC-FRA Thurs/Sat/Sun, AC850/851 YYC-LHR on Wed/Sat/Sun, AC850/851 YEG-LHR on Mon/Fri, AC865/866 YMX-LHR daily, AC868/869 YYZ-LHR except Saturdays, AC896/897 YVR-LHR Tues/Thur/Sat/Sun, and AC884/885 YYZ-TLV on Tues/Sun. AC870 YMX-CDG is now being operated by an A340 on mondays and Tuesdays only. Have you been dreaming of taking a trip to Kangerlussuaq lately? No? Well you should be, as this is one of the world's overlooked civil aero destinations. Otherwise known as Sondre Stromfjord, Greenland, Scandinavian Airlines System (SAS) callsign Scandi operates a 4 times weekly 767-300ER service between Copenhagen and the former Sondre Stromfjord. SK291 operates on Mon/Tues/Wed/Thu departing Copenhagen 1020 arriving Sondrestrom at 1110. SK292 leaves Kangerlussuaq's Sondrestrom Airport at 1245 arriving CPH 2105 on the same days.

Turkish Airlines has been substituting A310s for its A340s recently on the Istanbul-New York (JFK) route. TK581/582 operates with the Airbus on Wed/Thu/Fri/Sat, with an intermediate stop in an unknown city on the way over the ogginand with A340s filling out the rest of the week's schedule. It's official! Virgin Atlantic Airways will begin daily London (Heathrow) -Washington (Dulles) A340 service to commence in late Spring 1996. Word around IAD is sometime in April...Finnair's Winter sked includes Helsinki-Miami AY133/134 operating on Tues/Sun and AY103/104 Helsinki-New York (JFK) service daily except Sundays, all with MD11 equipment. Don't forget that Air New Zealand operates Boeing 747-400s from LAX-FRA on Mon/Tues/Fri as NZ18 and from FRA-LAX as NZ19 on Tues/Wed/Sat. LAX-LHR service as NZ2 operates Wed/Thus/Fri/Sat/Sun and the return LHR-LAX segment NZ1 operates daily except Tues/Wed. Those Cubana IL62s keep on plugging away: Cubana ply the Havana-Gran Canaria route four times weekly, CU472 Gran Canaria-Havana on Mondays, CU473 Havana-Gran Canaria on Wednesdays, CU446 Gran Canaria-Havana on Thursdays and CU447 Havana-Gran Canaria on Fridays. Keep an ear out early next month for Angola Airlines IL62 service from Luanda to Havana via Sal's Amilcar Cabral International. DT700/701 usually operate during the first week of each month, the last set of flights occurring on the 7th and 8th of January. I'll keep you up to date on February's schedule as soon as I receive it...Aeroflot-Russian International Airlines (SU) of course still operate a large fleet of IL62's across the Atlantic, all of these flights route via Shannon, Ireland. A dead giveaway that you've logged an SU IL62 are the words "NEGATIVE SELCAL" in response to the ATC query "ARE YOU SELCAL EQUIPPED?" However, there are seven selcal-equipped Aeroflot IL62s out there, so you may be surprised to catch one of these flights listed below with selcal. Here is the latest schedule for these flights:

SU317/318	SNN-IAD/IAD/SNN Fri/Sun
SU319/320	SNN-JFK/JFK-SNN Fri
SU325/326	SNN-MIA/MIA-SNN Fri/Sun
SU327/328	SNN-ORD/ORD-SNN Fri
SU341/342	SNN-MIA/MIA-SNN Wed
SU355/356	SNN-MIA/MIA-SNN Mon
SU355/356	SNN-HAV/HAV-SNN Sat
SU357/358	SNN-HAV/HAV-SNN Thurs/Fri

The Fokker F70 on HF? Sure, no problem thanks to a few Asian airlines now

operating the type on scheduled flight throughout Southeast Asia. Take Singapore Airlines subsidiary Silk Air which operates the F70 on the Singapore-Vientiane (Lao PDR) route. MI656 operates SIN-VTE Tues/Fri departing 1310 arriving Vientiane-Wattay 1510, and the return MI655 departing Vientiane after a quick turnaround at 1540 and arriving Singapore Changi at 1940. Bouraq (Indonesia) is another HF possibility using the F70 on its routes to and from Ujung Pandang to Singapore: BO195 operates Mon/Thu/Sat departing UPG 1500 and arriving Singapore 1800, and BO196 departing SIN at 1140 arriving UPG 1430 on the same days. Bouraq, Sempati, and Merpati all operate many other F70 route within Indonesia which may or may not appear on HF, but the above two routes would seem to offer the best chance for the civil aero DXer to catch the type on HF in Asia. In Europe, however, British Midland and MALEV Hungarian have added the F70 to their fleets in recent months, and it may be possible to catch British Midland F70's checking in with Portishead Radio, especially when the UK weather calls for diversions. Listen up for the aircraft's registration as the callsign when BM flights call in.

The venerable Fokker F28 is also still heard in ever-decreasing numbers on HF, most notably serving with Ansett Australia on Australian domestic routes. Until recently, the civil aero DXer could hear F28's regularly plying the routes from mainland Australia to Norfolk Island, but as of Fall 1995, the F28's have been replaced by 737s and BAe146s. One real HF possibility is Merpati's Ambon-Darwin service operating as MZ850 AMQ-DRW on Mon/Fri departing Ambon at 0910 and arriving Darwin at 1130. The return MZ851 departs 1230 and arrives Ambon at 1400. For monitors in Australia, Air Niugini and its vast domestic net-work of F28 routes offer an excellent opportunity to log the type on HF. Some possible frequencies to check would be 2998/4666/6532/6562/8861/8903/11384/13300. The Honiara-Port Moresby Air Niugini service PX083/PX082 on Wed/Sun, the Port Moresby-Wewak-Vanimo-Jayapura PX028/029 operating on Sundays, and the Cairns-Port Moresby PX099 departing Cairns at 0715 and arriving Port Moresby 0840, and PX098 Port Moresby-Cairns departing POM 1335 and arriving Cairns 1500 on Wed/Fri also provide good chances to hear an F28. Yet another F28 possibility is the Biman Bangladesh service between Bangkok-Yangon-Chittagong-Dhaka on Thursdays. BG084 Dhaka-Chittagong-Yangon-BKK departs Dhaka at 1100 arriving BKK at 1630, while the return BG085 departs BKK at 1715 arriving Dhaka at 2055.

In Africa, two airlines which may provide shots on HF are Air Mauritanie and Air Gabon. Air Gabon operate a number of domestic flights with the F28, but they also operate a number of flights for the Congolese national airline Lina-Congo. Late night Libreville-Pointe Noire (Congo) flights operate with Lina-Congo flight numbers and callsigns on Mondays GN/GC882 and Fridays GN/GC888, and GC/GN887 flies back after a short turnaround on Fridays. Flight number 882 departs Libreville at 2100 arr Pointe Noire 2210, 888 departs Libreville 2200 and arrives 2310. Flight 887 departs Pointe Noire for the return to the Gabonese capital at 2000 and arrives 2110. Remember that all times listed herein are local time only.

And with that we close yet another edition of International Civil Aero. Your contributions are always welcome here, and if you'd like to see a subject covered here that you think others would find interesting, please give one of us a shout. Thanks to all who took the time to contribute this month and we'll see you again next month with WUNNEWS....73 from Reston and Weston

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ASK WUN

THE INFORMATION STATION FOR WUN MEMBERS

ASK YOUR QUESTIONS HERE

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This new section is here to deal with requests for help and information to and from WUN members. This column is for you to ask questions; to locate others with similar interests (even non-HF like SatCom or VHF aero); to locate or sell equipment; to ask about receiver problems, or to just ask about anything. If you have a question to ask then ask it via this new section.

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Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to

C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.
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IF YOU WANT TO REPLY TO AN ADVERT NOTE THE SENDERS ADDRESS
AND REPLY DIRECT OR SEND THE ANSWER TO THIS COLUMN.

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1. SELCALs AND REGISTRATIONS REQUIRED

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From Hans Wildschut, hans.wildschut@hcc-lwd.idn.nl

Can anyone supply the selcals for the following aircraft?
REGISTRATION/A/C TYPE: 4R-ADA/340, 4R-ADB/340, 4R-ADC/340, 4X-AXL/74F, 6Y-JMR/300, 9H-ABP/320, 9H-ABR/737, 9K-ADE/744, 9K-AKB/320, 9K-ALB/310, 9K-ALC/310, 9K-ALD/310, 9M-MFE/737, 9M-MFF/737, 9M-MMY/737, 9M-MMZ/737, 9M-MPD/744, 9M-MPF/744, 9M-MPH/744, 9M-MQA/737, 9M-MQB/737, 9M-MQC/737, 9M-MQD/737, 9V-SPB/744, 9V-STE/310, 9V-STI/310, 9V-STJ/310, 9V-STK/310, 9V-STM/310, 9V-STN/310, 9V-STO/310, 9V-STU/310, 9V-STV/310, A40-EA/320, A40-EB/320, A40-ED/320, A40-EE/320, A40-EF/320, A40-EG/320, A40-EH/320, A40-EI/320, A40-EJ/320, A40-EK/320, A40-GU/767, A40-GV/767, A40-GX/767, A40-GY| 767, A40-GZ| 767, B-2173| MD1, B-2174| MD1, B-2175| MD1, B-2319| 300, B-2456| 744, B-2458| 744, B-2460| 744, B-2464| 744, B-2902| 737, B16101| MD1, B16402| 744, B16462| 744, B16465| 744, B16605| 767, B16621| 767, B16622| 767, B16623| 767, B16625| 767, C-GVXA| 320, CN-RNC| 737, CN-RND| 737, CS-TOB| 340, CS-TOC| 340, CS-TOD| 340, D-ABNT| 757, D-AERF| 330, D-AERG| 330, D-AERH| 330, D-AERJ| 330, D-AHLT| 737, DQ-FJC| 767, EC-FTR| 757, EI-CBZ| D9S, EI-CCC| D9S, EI-CKE| 767, F-GIUA| 74F, F-OGQU| 310, F-OKAI| 320, F-RAFE| DC8, F-WWKB| 340, G-BVKA| 737, G-BVKB| 737, G-BVKC| 737, G-BVKD| 737, G-BVZE| 737, G-BVZF| 737, G-BVZG| 737, G-BVZH| 737, G-BVZI| 737, G-BVZU| 320, G-BYAW| 757, G-CIVD| 744, G-CIVF| 744, G-CIVG| 744, G-CRPH| 320, G-JALC| 757, G-MCEA| 757, G-OBMX| 737, G-OBMY| 737, G-OBYA| 767, G-OBYB| 767, G-OBYC| 767, G-OBYC| 767, G-PIDS| 757, G-UKLB| 737, HB-IIE| 737, HL7239| 300, HL7240| 300, HL7244| 300, HL7245| 300, HL7269| 767, HL7281| 300, HL7289| 300, HL7290| 300, HL7294| 300, HL7295| 300, HL7298| 300, HL7299| 300, HL7373| MD1, HL7418| 744, HL7419| 744, HL7488| 744, HL7490| 744, HL7491| 744, HS-TAN| 300, HS-TAO| 300, HS-TAS| 300, HS-TGP| 744, HS-TME| MD1, JA8397| 767, JA8398| 767, JA8399| 767, JA8567| 767, JA8568| 767, JA8569| 767, JA8578| 767, JA8579| 767, JA8664| 767, JA8670| 767, JA8674| 767, JA8677| 767, JA8901| 744, JA8956| 744, JA8957| 744, JA8960| 744, JA8961| 744, JA8962| 744, JA8963| 744, JA8964| 744, LN-BRF| 737, LN-BRH| 737, LN-BUC| 737, N103EV| MD1, N105UA| 744, N106UA| 744, N119DL| 767, N120DL| 767, N12109| 757, N121DE| 767, N122DL| 767, N123DN| 767, N124DE| 767, N12532| DC9, N12538| DC9, N125DL| 767, N126DL| 767, N127DL| 767, N129DL| 767, N130DL| 767, N13110| 757, N131DN| 767, N134DL| 767, N135DL| 767, N136DL| 767, N14102| 757, N14106| 757, N14107| 757, N16463| 744, N1732D| L10, N1734D| L10, N17533| DC9, N178AT| L10, N179AT| L10, N18112| 757, N181AT| L10, N184AT| L10, N202AV| 727, N21108| 757, N24UA.| D8F, N29549| D8F, N33103| 757, N405KW| 737, N406EV| 744, N407EV| 744, N42086| D8F, N505AT| 757, N506AT| 757, N507AT| 757, N508AT| 757, N509AT| 757, N510AT| 757, N512AT| 757, N57111| 757, N571CA| 757, N572CA| 757, N610FE| MD1, N611FE| MD1, N621LF| 737, N651FE| 30F, N653FE| 30F, N654FE| 30F, N655FE| 30F, N657FE| 30F, N658FE| 30F, N659FE| 30F, N660FE| 30F, N661FE| 30F, N662FE| 30F, N68057| D10, N68058| D10, N68059| D10, N700UP| D8F, N701UP| D8F, N702UP| D8F, N705UP| D8F
Also, can anyone supply the Registration/Type for the following SELCALs.
REGISTRATION | A/C TYPE | SELCAL:
| | bghf, | | kmcj, | | ahbm, | | ajhk, | | lmbl, | | fhgk, | | jlpq, | | fgem, | | ckac,| | fkmc, | | jlde, | | gplm, | | dmel, n137cl | | fscj, N819FT | | BKDH, n979ra | | agfj, vr-bng | | acjk, zs-nlw | | arfq

****

2. UNIDENTIFIED DIGITALS

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FROM: David@dwgenti.demon.co.uk
The following list has been posted by David Gentile being unidentified items received during 1995. Can anyone help with IDs ?

2187.5 GMDSS 100/170 18:00 NONE UNLOC UNKNOWN COASTAL STA, 3606 ARQE 192/200 23:45 U/I UNLOC UNKNOWN, 4508.5 ARQE 72/400 1:20 U/I UNLOC UNKNOWN (71.99993), 4527.4 RTTY 75/400 18:48 U/I UNLOC UNKNOWN, 4836.5 ARQE 86/200 2:35 U/I UNLOC UNKNOWN (85.71407), 4990.2 ARQM2 200/400 16:24 U/I UNLOC

UNKNOWN, 5064 ARQE 72/450 20:48 U/I UNLOC UNKNOWN, 5073 RTTY 50/400 20:35 U/I UNLOC UNKNOWN, 5221 ARQE 72/400 11:30 RFFGFCA UNLOC UNKNOWN, 5352.8 FAX 120576 19:30 AWXN UNLOC U/I (WX CHARTS), 5430 ARQE 192/400 19:19 U/I UNLOC UNKNOWN, 5732.5 ARQE 72/400 12:03 U/I UNLOC UNKNOWN, 5862.5 ARQE 72/400 9:33 U/I UNLOC UNKNOWN, 5933 ARQE 72/400 16:35 U/I UNLOC UNKNOWN, 6434.4 RTTY 100/200 22:55 U/I UNLOC ROYAL NAVY, 6725.7 SITORA 100/170 22:51 U/I UNLOC UNKNOWN, 6798 RTTY 75/450 19:10 KUL UNLOC UNKNOWN, 6836.7 ARQE3 200/400 23:22 U/I UNLOC UNKNOWN (199.9899), 6920 CW 18:05 U/I UNLOC UNKNOWN 5 GROUPS 1's, 6945 ARQE 192/200 20:31 U/I UNLOC UNKNOWN (191.9987), 6962 CW 14:55 6BY UNLOC UNKNOWN, 6976 ARQE 192/200 0:01 U/I UNLOC UNKNOWN, 7541 RTTY 75/400 19:00 U/I UNLOC UNKNOWN, 7542.7 ARQE3 192/400 22:06 U/I UNLOC UNKNOWN, 7639.2 AUTOR 100/170 9:40 U/I UNLOC UNKNOWN, 7721.7 SITORA 100/170 16:37 U/I UNLOC UNKNOWN, 7732.5 ARQE 72/400 13:33 U/I UNLOC UNKNOWN, 7817 RUMFEC 164/400 20:35 U/I UNLOC U/I MFA ROMANIA, 7822.2 ARQE3 200/400 22:52 U/I UNLOC UNKNOWN, 7931 CW 16:29 U/I UNLOC UNKNOWN, 7937.7 ARQE3 200/400 10:49 U/I UNLOC UNKNOWN, 8156 POLARQ 100/250 9:09 U/I UNLOC PROB MFA WARSAW, 8330.3 ARQE3 100/400 23:29 U/I UNLO UNKNOWN, 8876.2 RTTY 50/1000 21:24 U/I UNLOC UNKNOWN, 8913.7 SITORA 100/170 20:47 U/I UNLOC PROB MFA CAIRO, 9208 RUMFEC 164/400 15:53 U/I UNLOC PROB ROMANIAN MFA, 9221.7 SITORA 100/170 21:34 U/I UNLOC U/I MFA EGYPT, 10148 POLARQ 100/250 16:31 U/I UNLOC PROB MFA WARSAW 10172.7 SITORA 100/170 21:05 U/I UNLOC PROB MFA EGYPT, 10206.7 SITORA 100/170 17:00 U/I UNLOC U/I SPANISH AUTHORITY, 10393.7 ARQE3 200/400 20:35 U/I UNLOC UNKNOWN, 10422.5 ARQS 96/170 8:20 U/I UNLOC PROB AUSTRIAN MFA, 10461.7 SITORA 100/170 15:18 U/I UNLOC PROB EGYPTIAN MFA, 10467.7 ARQE3 200/400 10:00 U/I UNLOC UNKNOWN, 10742 RTTY 75/500 15:52 U/I UNLOC SOUD NETWORK, 10817 RTTY 75/500 16:00 U/I UNLOC UNKNOWN, 10973 SITORA 100/170 17:26 HBD47 UNLOC U/I SWISS MFA, 11142 FECA 144/400 12:32 U/I UNLOC UNKNOWN, 11290 RTTY 75/400 15:10 U/I UNLOC UNKNOWN, 13572.7 ARQE 72/400 19:36 U/I UNLOC UNKNOWN 13916.5 SITORB 100/170 12:03 U/I UNLOC UNKNOWN, 14377 RTTY 75/400 10:22 U/I UNLOC UNKNOWN, 14411 RTTY 50/250 15:54 U/I UNLOC UNKNOWN, 14485.7 ARQE3 192/400 22:15 U/I UNLOC UNKNOWN, 14851.7 SITORA 100/170 15:03 U/I UNLOC UNKNOWN, 14931 CW 15:50 8BY FRANCE UNKNOWN, 15597 ARQE3 96/400 13:36 U/I FRANCE UNKNOWN, 15886 ARQE 96/150 11:15 U/I UNLOC UNKNOWN, 16005 RTTY 50/400 22:59 U/I UNLOC UNKNOWN, 16147.7 ARQM2 200/400 10:04 U/I UNLOC UNKNOWN, 16238 CW 13:43 3ICR UNLOC UNKNOWN, 16309 FECA 144/400 12:38 U/I UNLOC UNKNOWN, 17431.5 SITORA 100/170 10:05 U/I UNLOC UNKNOWN, 18420.5 RTTY 50/350 9:00 U/I UNLOC UNKNOWN, 19040.5 RTTY 50/300 15:50 U/I UNLOC UNKNOWN.

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More Unidentified Digitals

A request from John of London for the answer to a long standing decode mystery. In last months WUN newsletter Mr Chinsky of New York reported signals on 10627 and 11155.

Well these same signals have been monitored by John for the last 8 years and he can add further to the mystery. There are always two transmissions on the air at the same time the first on, 6917, 8030, 10600, 11155, 13595 or 15815 and the second on 7682.5, 9245, 10627, 10885.5, 13913 or 16280 KHz. Each of these frequencies are the assigned frequencies with actual carrier at 1.5KHz below in each case.

Normally both stations use frequencies in the same part of the spectrum and are of the same strength. From this it is reasonable to assume that they are being transmitted from the same site.

There could be even more frequencies on which they transmit and in previous years, when reception conditions were better, John has heard them 24 hours a day on one or other of those listed above. It has been suggested that the two stations transmit in parallel but John has heard one station idling unkeyed whilst the other was keyed. This suggests that they are not in parallel. These transmissions are always encrypted and use pseudo-random encryption at 75 baud, plain language has not been seen even for SVCs. The type of transmission is 6028 series FDM VFT.

Comparison with other signals in known locations of the World has failed to even hint at the location of these transmissions. Help please, from all you digital Wuners out there. Who is it ?

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FROM: Andrew Everhart. Any help on these UNID's would be much

appreciated. Address: aeverhart@iquest.net

TIME-L	DATE-L	FREQ	MODE	NAME	CITY
1159	1/1/96	0.34900	CW	FV	????
1231	1/1/96	0.39500	CW	XR	????
2110	1/1/96	4.23500	CW	VAI	????
2023	1/1/96	4.26000	CW	UNID	????
1845	1/1/96	4.28400	CW	VCS	????
1833	1/2/96	6.46900	CW	SXA24	????
1845	1/2/96	6.49100	CW	VCS	????
1849	1/2/96	6.49200	CW	VCS	????
2154	1/1/96	8.43950	CW	VCS	????
1658	1/2/96	12.87400	CW	VCS	????
1417	1/4/96	16.94800	CW	VCS	???

==========

FROM: ary@bitbike.iaf.nl (Ary Boender)

I heard a couple of unid aircraft during the past year. Do you know to whom they belong? C-GMII (biz jet), D-AOHP, F-GZFG, OE-LRG, OO-CEC, PH-BRV, PH-DSE, PH-HET, PH-MRL, PH-OVR, PH-PSF, PH-RDT, PH-UKF31. Ary

That's it for this month!

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DIGITAL REVIEW

[editor: Ary Boender (ary@bitbike.iaf.nl 2:283/512.24)]

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                Hello, I hope that you had a wonderfull Christmas and
      º          entered 1996 safely. WUN celebrates its first birthday
    *******      that's where the ASCII birthday cake is for :-)))
    ÀÄÄÄÄÄÙ      I am glad that WUN became such a success. It is nice to
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know that so many Ute dxers from all over the world joined us. In case you didn't know it yet, WUN is THE place to be. The complete 'Who is Who' of the Ute-dx-community joined WUN, but where are their contributions ????? Right, enough small talk for now. Let's get digital. Oh, don't forget to send me all your info and stuff.....

New monthly item ???

Following the item about the Dutch MFA and embassies, I received a few requests for a regular diplo item. OK with me ! This is what I have in mind: the items should be brief _hmmm... who said brief <grin>_ and to the point, including stations and frequencies, transmitting mode(s) and typical sample messages. Right WUNnies, I need your help with this ! Please, send me all the diplo stuff that you can find, especially freqs and sample messages. My address is in the header. Thanks for your cooperation.

Testing... one.... two....

Roberto Robba copied the Bulgarians while testing a whole bunch of (new ?) frequencies on 27 December. MFA Sofia tested with 'SOB', their embassy in Bucharest, and an unid embassy (LZU7). The tests started at 15.00 UTC and lasted for ca 1,5 hours. RY's and operator chatter were in normal 75bd RTTY while the 'real' messages were in 300bd IRA ARQ. Freqs: 4806, 5355, 5360, 5433, 5864, 6706.2, 6784, 6792, 7410 kHz. Here is part of the test transmission which started in 75bd Baudot.

```
 sob sob sob ryryryryryryryryryryryryryryryryryryryry
 sob sob sob ryryryryryryryryry zan zan  pse zal 7410 7410
```

Then 300bd IRA ARQ messages, followed by 75bd Baudot operator chatter.

```
 bk bk
 xse ur th omis
 ga zok 3/4
 zrr 300
```

```
nv
sob sob sob ryryryryryryryryryryryryryryryryryryryry
sob sob sob ryryryryryryryryryryryryryry pse om short 3

vy tsk om
pse zrr 300
tks
bvi

nv 5433 5433
nv 5433 5433
nv 5433 5433
```

The station then starts again with 300bd IRA ARQ. 5433 kHz is now parallel with 7410 kHz. At the end the station switches to Baudot and this text was sent: 'sob sob sob ryryryryryryryryryryryryryryryyry pse zaal 6792 6792' after which it switches back to 6792 kHz.

THE challenge

In November I challenged you to check out 12395 kHz. Bert van Rij and Michiel Schaay did so and copied many vessels and Bert found also three other freqs. Ronny Peeters and I did some research. This is what we found. Any info from other members is most welcome.

1) Frequencies: 8340 and 12395 kHz (ship) / 8404 and 12575 kHz (shore). There are probably also 4 and 16 MHz freqs but we didn't hear them yet. It is clearly a company network. All companies are located in Athens but I am not sure if they are related.
2) Shipping companies involved: Dynacom Tankers Management, Athens (D), Agency Trust Ltd, Athens (A), Centrofin Management Inc, Athens (C), Sea Traders SA, Athens (S)
3) Aparently all companies (or is it one station that communicates on behalf of them ?) use selcal MPKV (4530) which was originally assigned to the USSR and has no official user now.
4) All vessels are registered in Greece, Cyprus or Malta, most of them are tankers. Here follows a list of the vessels heard 'till 15 January. Listed are the internal callsigns (INT1, INT2), the name of the vessel, the company, callsign, selcalnr and selcal.

INT1	INT2	SHIP'S NAME	COMP	CALLSIGN	SELCALNR	SELCAL
		Companies in Athens			4530	MPKV
		Apanemo	C	SVQJ	16952	CAPQ
191		Apnoia	C	SXZK	16956	CAPC
111	G1F11	Athos	A	SZHI	16912	CAXQ
515		Barenbels	S	SYMY	16770	CZYV
		Delfi	A	P3AR 4	01768	BYCF
		Epic	D	9HEY 4	63384	EKFO
223		Georgios	A	P3JW 4	27535	YPEP
		Heron	A	P3BS 2	56395	RKAP
357		Irina	?			
201		Leni	C	SZSE	16963	CACK
242		Livorno	?			
356		Nilos	C	SXAA	17036	YTKC
323		Ninemia	C	SWCF	16866	CDCC
362	G3F62	Oak	S	9HDA 4	63368	EKCD
		Orient	D	9HKM 4	24267	MQRY
		Paola	D	9HCT 3	26460	CMRV
363	G3F63	Riza	D	9HIA 4	24230	MQEV
		Saturn	D	9HDH 4	63374	EKYO
		Sereno	C	SXBR	16978	CAYF
		Smyrna	A	C4QP	27514	YPBM
352	G3F52	Tom	D	9HDZ 4	63378	EKYD
		Yvory	D	P3WF 2		

The following internal callsigns were also heard, but so far we were

unable to glue them to any of the vessels: 060, 090, 124, 171, 222, 235, 241, 262, 424, 525, 565, 666, 828, 929, 969

Sample message: mt Riza is calling the shore station (MPKV) and transmits a position report to Dynacom Athens. The internal callsign is mentioned at the beginning of the 5th line (G3F63). The message is a bit garbled at places.

```
mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv
mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv mpkv
mpkv mpkv mpkv

24230 riza x
07/01/1996   10:25:14
to: dynacom athens
fm: m.t.riza

g3f63       06/01/96/riz/042/96     lt 1200
attn: operations gp3

noon msg
vsl at bound omisalj eta 08jan96 0800z
posn     : 3704n 02056e
stmg time/~55)  : 18.1/18.1
spd md gd/av   : 12.49/12.49
cmg      : var
tot dist/dtg   : 226/597
sea/air temp   : 12
wind st sea    : nw-4 moderate
av l.i.     : 7.1
consmpn     : h.o: 56.1, d.o: 2.8
r.o~mb.      : ho: 1734.6, do: 265.2
18.0/(25+8)
me sump tk lvl  : 34 cum
~~m/e lo pr b4/aft: 4.0/3.6
~e~ex gas temp ~: 378/401/380/395/412/403/395/395/388/415
scav ai~ ~emp/pr: 44/0.56
a/e l.o.pr   : 4.9/4.6
a/e ex gas temp : 300/310/310/310/315/315/310/300/300
tot load     : 310
b/rgds
master
```

SOUD update
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o It seems that I made two serious bloopers in WUN#12. Sorry for that. The first one was in the SOUD update when I told you that the end that sends MIG is definitely in Managua. Well, that is true but the other end that sends WFO is NOT the Russian legation in NY. It is the large Russian transmitter site just outside Havana - the same site from which the other (one-way broadcast) SOUD transmissions come.

o Guy Denman from Portsmouth, UK, copied a new SOUD station on 7920 kHz using link-id 00074. This sked starts at ca 14.45 UTC. Guy also enclosed a recent sked for a bunch of the European transmissions.

Freq.	UTC	to	link	
12193	14.10	KUL	00142	
14980	14.10	RAU	00070	
10584	14.20	KUL	00142	repeat of 12193
12180	14.30	RAU	00070	repeat of 14980
10767	14.30	BFR	00030	
5775	15.25	WQL	80061	working VNB on 6862
6862	15.25	VNB	80061	
7920	14.45	?	00074	
15735	16.10	FQX	60003	
12195	16.30	GOD	00090	
10277	16.45	?	?	

10287	17.30	JSC	00190	
8057	17.45	RVC47	20087	
9237	17.55	RBP71	00149	(also noted at 17.30 -Ary-)
9073	17.55	UNID		
6798	18.40	KUL	00142	

o Edgar White sends us a couple of loggings along with his best wishes for '96. Thanks Edgar, it is a good update to the America's sked.

Frequency	to	link	UTC	mode/speed/shift
16226.28	clg	YBU,	00148, 14:00	BAUDOT 75/500
18803.26	clg	YBU,	00148, 14:09	BAUDOT 75/500
14725.33	clg	BPA,	00116, 15:15	BAUDOT 75/500
10422.35	clg	BPA,	00116, 15:26	BAUDOT 75/500
21865.2	clg	SPK,	00168, 16:00	BAUDOT 50/500
18844.24	clg	SPK,	00168, 16:25	BAUDOT 50/500
20731.21	clg	GMN,	00119, 16:45	BAUDOT 75/500
18185.28	clg	GMN,	00119, 16:54	BAUDOT 75/500
16446.27	clg	KRN,	00178, 17:35	BAUDOT 75/500
14465.28	clg	KRN,	00178, 17:43	BAUDOT 75/500
16446.26	clg	WNY,	00139, 19:09	BAUDOT 75/500
16841.26	clg	JMS,	00127, 22:30	BAUDOT 75/500

Route Indicators revisited

Blooper in ZEN procedure: I erroneously stated that the prefix ZEN means that the station has the same routing indicator (RI) as the addressee. This is dead wrong, my humble apologies folks :-)
A ZEN address followed by a RI means that the addressee will receive its message in another way, NOT during the transmission that you copied. I'll give you an example: say you copied a message from naval station DXWUN

```
     to: RUWUN / WUN HQ
         RUWEB / WUN WWW HQ
         ZEN RUWDR / WUN DR
```

This means that the station who transmits this stuff will send a message to RUWUN and RUWEB right now, normally by using some digital mode and that RUWDR will receive its message in another way, by snail-mail, satellite, pigeon or whatever.

I recently received a nice utility called 'IDENT' that roughly determines the kind of military force that you are hearing. It will show you the type of station (strategic or tactical), their origin, the area where they operate, the force or organisation (Air Force, Army, Navy, Min. of Defense, Min. of Foreign Affairs, etc) and finally the (sub) unit (HQ, brigade, unit). In case you are interested, I can send it to you in the following formats: UUencode, BinHex and Mime.

Thomas Ingenpass passed along another bunch of indicators. Thanks Thomas !

CINCLANTFLT	Commander in Chief Atlantic Fleet
CINCPACFLT	Commander in Chief Pacific Fleet
CINCUSNAVEUR	Commander in Chief US-Naval Forces Europe
CNS	Commander Naval Subarea
COMBENCHAN	Commander Benelux-Channel Area
COMCANLANT	Commander Canadian Atlantic Area
COMCECLANT	Commander Central Atlantic
COMEDCENT	Commander Central Mediterranean
COMEDEAST	Commander Eastern Mediterranean
COMEDNOREAST	Commander North Eastern Mediterranean, Ankara
COMFAIRMED	Commander Fleet Air Mediterranean
COMGIBMED	Commander Gibraltar-Mediterranean Area
COMIDEASTFOR	Commander Middle East Forces
COMLANTAREA	Commander Atlantic Area
COMNAVFORCARIB	Commander Naval Forces Caribbean
COMNORECHAN	Commander Northwood-Channel Area
COMNORLANT	Commander Northern Atlantic
COMPLYMCHAN	Commander Plymouth-Channel Area
FLTCINC	US Navy Fleet Commander in Chief

NAVCAMS	Naval Communications Area Master Station
NAVCOMSTA	Naval Communications Station
NCSORG	National Center for Shipping Organisation
NSA	National Shipping Authority
OPCONC	Operations Control Center
OPSCEN	US Coast Guard Area Operations Center
USCOMEASTLANT	US Commander East Atlantic
WESTPAC	Western Pacific Area

French Forces use 128.5bd ARQ-M

WUNner Ed "Dizzy" Deasy (ejd4e@poe.acc.virginia.edu) sent us the following interesting notes:

I've noted the use of 128.5 bd, CCIR 342 (TDM, Moore, etc.) in FDM groups for about 3 years now. It has literally taken me this long to get around to posting something on it! I haven't actually seen this mode/baud combination posted elsewhere over that period. This appears to be essentially one circuit between Papeete,Tahiti and the nuclear test center on Mururoa (atoll??). Nothing "secret" (or particularly interesting) on this circuit though, just meteo from "meteociv Papeete", and AFP news summaries. There is very rarely the typical 5-let group traffic or non-protege messages. I have not _confirmed_ the return duplex link from Mururoa. As you can see from the loggings, the circuit is commonly found even at my East coast U.S. location. If conditions are moderately good I can and do generally tune across one of the circuits. Perhaps some "left coasters" can assist in finding the return legs. It would be quite a catch from Europe.

I find it difficult to synch this signal on my M-7000, which only has 128 or 129bd to choose from. Works fine on the Code3. I left the mode tag off the following list, all being CCIR 342.

FREQ.	GMT	BAUD/SHIFT	CALL/ID	QTH	COMMENTS
4557.30	0327	128.5/100	?	?	??
4567.30	1138	128.5/100	?	?	Idling only
4607.40	0311	128.5/85	?	?	?
5091.60	1202	128.5/100	?	?	Beta,CCIR 342
5447.60	1107	128.5/120	?	?	Idle only, another narrow tdm 128 in FDM group
6820.40	1329	128.5/100	"RFHHO"	?	"MCA meteo", channel 2
6884.40	1244	128.5/100	"RFHJ"	Tahiti	meteo channel one and two "RFHJMNGW"
6902.20	1224	128.5/100	?	?	???
9140.90	0326	128.5/100	?	?	Meteo on Channel 2
9267.90	1207	128.5/85	?	?	Once again, an FDM group with 342 128.5
10471.50	0326	128.5/90	?	?	Idle
10476.80	0334	128.5/100	?	?	Idle
10581.30	0244	128.5/85	??		5 in FDM group, wx, FF msg.
10586.90	0313	128.5/100	?	?	Idle
10705.30	0207	128.5/85	?	?	Idle
10710.90	0441	128.5/100	?	?	Idle
10857.50	0929	128.5/100	"RFHWW"	Papeete	Meteociv, CI = "IOA" & "IOC"
11106.30	0155	128.5/100	?	?	Idle
11126.30	0409	128.5/85	"RFHWW"	Papeete	in TDM, 5 number coded wx
11131.90	0304	128.5/100	"RFHWWO"	Papeete	Meteociv Papeete, Ch B C.I. = "IOA",Meteo,Pres
11131.90	1049	128.5/90	"RFHWWO"	Papeete	Meteociv Papeete to Meteo mururoa, C.I. = "MOS"
11468.80	0513	128.5/100	?	?	CCIR 342 Idle, 2 Channel
13422.90	0109	128.5/100	"RFHWWO"	Papeete	Meteociv Papeete, C.I.="IOC"
13882.40	0200	128.5/100	"RFHWWOG?"	Papeete	in FDM, Meteo, C.I. = "IOD"
13887.90	0131	128.5/100	"RFHWWO"	Papeete	in FDM, C.I. ="IOA"
13993.60	2335	128.5/100	?	?	idle
14356.90	0102	128.5/100	"RFHWWTCV"	Papeete	FF press and admin. msg.
14592.60	0207	128.5/100	"RFHWO"	Comsup,	AFP Press in Papeete FF., meteociv papeete, 5 lg's
14592.88	0340	128/140	"RFHWWTG"	Papeete	METEO W/FRENCH NEWS ON CH. B.

					UNUSUAL BAUD RATE
14660.90	0045	128.4/100	"RFHWWO"	Papeete	Meteo from Meteociv Papeete, FF. Press, In TDM
14660.90	0045	128.4/100	?	?	Broken ff. msg. channel A
14952.30	0118	128.5/100	"RFHWWO"	Papeete	Meteociv Papeete, also Maritime warnings, in FF.
14957.90	0057	128.5/100	?	?	Idle
15819.90	0350	128.5/100	?	?	Idle
16009.40	2323	128.5/100	"RFHWWO"	Papeete	Meteociv Papeete, meteo, channel A, C.I. = "IOD
16283.10	2250	128.5/100	"RFHWWO"	Papeete	Meteo Civ, Papeete, also AFP news, Ch. A, C.I.="IOB"
16288.90	2110	128.5/100	?	?	CCIR-342, Idle only

Fax news from Marius Rensen's Home Page

o The NWS is bringing on line a new computer system to deliver radiofax charts to USCG Marshfield (NMF Boston). Initially satellite pictures will be unavailable via this system. (Notice to Mariners at 1430 UTC via USCG Boston).

o Offenbach Meteo will not discontinue facsimile broadcasts before March 1996 so you still have a chance to log and QSL them.

o US Navy will not discontinue facsimile broadcasts before 1997.

o CNA Taipei transmitting now at 0900 UTC (0800 and 1500 UTC cancelled).

o USCG Boston has a new frequency: 9110 kHz

o The US Coast Guard has a continuing requirement to distribute marine weather charts to its cutters by radiofax. A decision concerning broadcasting this information for public safety purposes has not yet been made, but is expected after the the first of the year.

o The UNID station on 14626 kHz is confirmed by Robert Margolis as CZW, Maritim Air Group (MAG), Halifax, NS, Canada. Robert has logged CZW on 14627 kHz at 0200 1420 1430 and 2030 UTC on three different occasions, having last monitored it on Aug. 22, 1995 at 1415 UTC. There is no regular sked for these transmissions. Other listed frequencies are 4618 and 6917 kHz.

What did you hear in 1995 ?

Stan Scalsky browsed thru all our 1995 loggings -poor guy- <grin> and figured out that the following modes were logged. He remapped some of the odder labels into their more conventional names. For those who wanna know more about these modes, I strongly suggest that you get a copy of the Digital FAQ version 2.0. I think that every digital dxer should have a one. The FAQ is available from our WWW Home Page.

MODE	COUNT	Comments
81-81	14	
ARQ-E	166	
ARQ-E3	175	
ARQ-M2	90	
ARQ-M4	1	
ARQ-N	1	
ARQ6-90	15	
ASCII	1	
BAUDOT	1146	Includes marine frequencies
BPSK	2	
CIS-14	9	
COQUELET	13	
CROWD36	26	
CW	66	

DUP-ARQ	18	ARTRAC mapped to DUP-ARQ
FAX	220	
FEC-A	64	
FSK	5	
G-TOR	2	
HC-ARQ	3	
HF-ACARS	8	
IRA-ARQ	5	
MS5	21	Russian vocoder
OQPSK	23	
PACKET	9	
PACTOR	27	All forms of pactor in this category
PICCOLO	16	
POL-ARQ	57	
PSK	4	
QPSK	11	
ROU-FEC	40	RUM-FEC mapped to ROU-FEC
RS-ARQ	10	
SI-ARQ	6	
SITOR-A	1387	Includes marine frequencies
SITOR-B	156	
SPREAD	1	Bauer loggings mapped to SPREAD
SWED-ARQ	15	All SWED forms mapped to SWED-ARQ
TADIL-A	2	
TT2300b	16	
TWINPLEX	48	F7B mapped to TWINPLEX
VFT	28	All forms of VFT mapped to VFT

No loggings found for ARQ6-70, ARQ6-98, AUTOSPEC, CIS-11, CIS-21, CLOVER, HNG-FEC, MIL188 or SI-FEC.

That's all I have for this month. CU soon ! -Ary-

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The WUN Military Column

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Hello and welcome to the first WUN Military Column for 1996. Lots of hot information for military monitors, so buckle-up and away we go.

BOSNIA: Although not purely military, Tom Sundstrom passes along this tip from that part of the world. The Hungarian News Agency was copied on 9114 kHz with press in English at 1700 UTC. He says his settings were 50/425/R on his M-6000. He adds that you can get press teletype listings from his "News You Can Use" page at http://www.pics.com/trs/news_use.htm

CHINA (Republic) NAVY: The Taiwanese Navy is not letting any barnacles form that might put it behind mainland China's navy. It is building seven more near-sisters to U.S. Oliver Hazard Perry-class guided missile frigates, is having built six La Fayette-class frigates in France, and is purchasing retired Knox-class frigates from the United States. One of them, the former-USS Joseph Hewes (FFT-1078) is now the Lan Yang (935).

FRENCH AIR FORCE: The French fighter "Rafale" is facing some rough times. The rising costs of the plane is reason for yet more criticism from the French
Air Force and the French government. Chief Air Force Staff said "the Rafale is currently using no more than 80% of its capability". Due to these high price-tag's the delivery of 234 ordered fighters will not begin until the year 2001/2. The French Marine (navy), which ordered 86 fighters will not receive any until the year 2005 where 1999 was the original delivery date.

GERMAN NAVY (Bundesmarine): The second Brandenburg-class 123 frigate, the FGS Schleswig-Holstein (F216)/DRAI was seen conducting sea trials last September. It was expected to commission in December.

MILITARY AIRCRAFT: The latest Harrier "jump-jet" is named the GR7 and is still the only operational VSTOL-plane that has got extra night-operation heat-sensing equipment. The GR-7 has 9 weapon-attach points - 2 are reserved for the sidewinder missile.

MILITARY INTELLIGENCE: John Pike recently posted what is called a "Comprehensive Guide to Intelligence-related Resources on the Web." Much of the information is anti-military, but it still makes for some interesting reading. He says a good entry point is

http://www.fas.org/pub/gen/fas/irp/intelwww.html
Some other sites he mentions are:
Federation of American Scientists:
http://www.fas.org/pub/gen/fas/
CyberStrategy Project:
http://www.fas.org/pub/gen/fas/cp/
Intelligence Reform Project:
http://www.fas.org/pub/gen/fas/irp/
Military Analysis Network:
http://www.fas.org/pub/gen/fas/man/
Space Policy Project:
http://www.fas.org/pub/gen/fas/spp/

MOROCCAN NAVY: The French Leroux et Lotz Naval has delivered the 210-foot long offshore patrol vessel Rais Bargach to the Moroccan government. It is the first of four to be delivered to the North African country.

NASA: NASA has issued a draft Cooperative Agreement Notice for the design, fabrication and flight test of the X-33 advanced technology demonstrator -- the next step in development of a new generation of reusable launch vehicles that will dramatically reduce the cost of putting payloads into orbit.

"We are seeking comments on the draft notice by Jan. 22, 1996, from industry and any other interested parties," said X-33 project manager Gene Austin. "We will consider these comments before issuing the actual Cooperative Agreement Notice in April 1996."

The April notice will solicit proposals for a joint government and industry effort to demonstrate single-stage-to-orbit technologies by means of the X-33. Three aerospace companies -- Lockheed Martin Skunk Works, McDonnell Douglas Aerospace and Rockwell International Corp. -- have been working with NASA since March on concept definition and design of the X-33 in Phase I of the program. NASA will select an industry partner to work with in Phase II, in which the X-33 will demonstrate vehicle reusability and operability concepts that assure low cost operations and rapid processing for reflight. Phase II will culminate in flight testing of the X-33, beginning in early 1999.

"X-33 is an experimental program intended to determine if single-stage-to-orbit will work," Austin said. "It will give government and industry the means to decide by the end of this decade the feasibility of developing an operational next-generation reusable launch vehicle. That development, if it occurs, will be led by industry."

NASA and industry will share costs during Phase II of the X-33 program, with NASA budgeting a total of over $900 million in expenditures through 1999. The amount its industry partner will invest is to be determined.

Industry proposals will be due mid-May 1996, and NASA expects to select its industry partner by July, subject to approval from the White House to proceed into this next phase of the X-33 program.

The X-33 draft Cooperative Agreement Notice is available in the NASA Acquisition Internet Service at:

http://procure.msfc.nasa.gov.

ROYAL NEW ZEALAND NAVY: New Zealand launched the first of two ANZAC-class frigates, HMNZS Te Kaha (F77), in July of 1995. It is expected to commission in March of 1998. Australia is also building a total of eight sisters in continuing efforts to modernize its navy.
SOUTH AFRICAN DEFENCE INDUSTRIES: The South-African attack-helicopter "Rooivalk" seems to become a big success. On the basis of the Puma-helicopter that was licensed to South-Africa the Rooivalk and a transport-helicopter named Oryx was developed. The fact that there were no Hellfire-rockets available for the Rooivalk, made the British army decide not to buy them. The answer for the African attack-helicopter-project came as the "Mokopa," a low-cost hellfire-clone shown at the Dubai air-show late 1995. This laser-guided missile seems to be a good alternative for the hellfire and there is serious interest for ordering these systems by the Arabic and Asian governments. The "Suid Afrikaanse Lugmag" is expected to order 16 rooivalk's.

SWEDISH DEFENSE INDUSTRIES: The Swedish firm Bofors introduced a new demining vehicle. The system is based on a German Leopard-1 tank-frame and has a "roller" in front which has his own engine and is capable of demining 20.000 square-meters within the hour. The vehicle was introduced in the VN-white colors and can be used to clear a complete battlefield from mines and unexploded ammunition by grinding the soil to a depth of 50 centimeters.

The changing of the "roller" only takes up to 10 minutes. The Norwegian relief-organizations showed great interest for the de-mining activities in Cambodia, Northern Iraq, Mozambique and Angola and has placed the first orders.

The Swedish Army is in for mobility, not only is the 40L70 AA-canon mounted on a 6 x 6 terrain vehicle, also the 105mm FH-77 AA-gun from Bofors is now mounted on a 6 x 6. These vehicles have an extensive navigation system on board and can, beside the crew, take 24-granates on board. The FH-77B is capable of firing 3-granates in 13 seconds (!) but over a long period this fire speed drops to 8 granates per minute. The maximum firing-distance is 30 Km.

U.S. AIR FORCE: The C-17 US-military air transport has reached its operational status just before the air-lift to Bosnia. The Pentagon decided to order 80 C-17 airlifters on top of the 40 planes already ordered. The fact that 8 C-17's take up as much room, on the ground, as 3 C-5's or Boeing 747's played an important role in the decision.
U.S. ARMY: The U.S. Army recently accepted delivery of its 50th RC-12 Guardrail signals intelligence aircraft-an RC-12P that employs fiber optics for all data, commands and audio distribution.

A couple of U.S. Army watercraft recently identified are:

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     USAV MG Nathanael Greene (LT-801)  --  AAFB
     USAV COL Seth Warner (LT-806)      --  ADTK
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Both vessels were recently heard underway in the vicinity of Charleston, SC. These "large tugs" are both based out of Ft. Eustis, VA.

Mike Sullivan passes along a Web site with info on U.S. Army communications. Lots of interesting material on Army commo units around the world. It is:
http://www.gordon.army.mil/roa/active_units/world.html

U.S. COAST GUARD: The USCG announced in late December that the Differential Global Positioning System (DGPS) is expected to be operational for navigation and positioning in January 1996. DGPS is the regular Global Positioning System (GPS) with an additional correction signal. The service being deployed by the CG will soon consist of 48 DGPS broadcast sites providing coastal coverage to the continental United States, the Great Lakes, Puerto Rico and portions of Alaska, Hawaii and the Mississippi River.

For a wealth of interesting information about the U.S. Coast Guard, check out retired Coast Guard Communications Warrant Officer Fred Siegel's Web page. Fred used to be the detailer for Radiomen (i.e., he assigned all

Radiomen their duty station orders around the globe). As a matter of fact, he gave your author his first set of orders to RADSTA GUAM/NRV - exactly the assignment he wanted. Check out Fred's Place at:

http://www.cris.com/~fsiegel/home.html

You can also email him at fsiegel@cris.com for more info on his homepage. He also passes along the Web site address for the TV show "Coast Guard The Series." Have a look at:

http://www.tamcomm.com/CGTV.html

And why not have a look at the Coast Guard's own page. You can find it at:

http://www.dot.gov/dotinfo/uscg/

Mike "Smitty" Smith, QSL manager at USCG CAMSLANT Chesapeake/NMN, passes along the latest info sheet on his station:

NMN
COAST GUARD COMMUNICATIONS AREA MASTER STATION ATLANTIC
COAST GUARD CAMSLANT CHESAPEAKE VA/NMN RECEIVER/OPERATION SITE IS LOCATED IN CHESAPEAKE VA WHICH IS ON THE VIRGINIA AND NORTH CAROLINA BORDERS (36-36.57N/076-15.25W). CAMSLANTS TRANSMITTER SITE IS LOCATED IN A REMOTE SECTION OF VIRGINIA BEACH KNOWN AS PUNGO (36-43.43N/076-00.36W). CAMSLANT ALSO REMOTELY CONTROLS TRANSMITTERS/RECEIVERS IN MIAMI FL. CAMSLANT'S MISSION IS TO PROVIDE LONG RANGE COMMUNICATIONS SERVICES TO COAST GUARD VESSELS, AIRCRAFT, NATIONAL OCEAN AND ATMOSPHERIC ADMINISTRATION (NOAA) VESSELS, WORLDWIDE MERCHANT FLEET AND U.S NAVY VESSELS. CAMSLANT ALSO PROVIDES WEATHER BROADCASTS, MARINE INFORMATION ADVISORIES AND DISTRESS COMMUNICATIONS TO THE BOATING PUBLIC.
CAMSLANT USES THE HARRIS R-2368/URR RECEIVER WITH A VARIETY OF VERTICAL, HORIZONTAL, AND LOOP ARRAY DIRECTIONAL ANTENNAS. CAMSLANTS TRANSMITTERS CONSIST OF THE COLLINS HF-80/HARRIS 7405 TRANSMITTERS FOR HIGH FREQUENCY VOICE, SITOR, AND RTTY COMMS USING 5KW AND TWO NAUTEL NX 5000TT/6 MEDIUM FREQUENCY XMTRS FOR NAVTEX MODES UTILIZING A VERTICAL ANTENNA. CAMSLANT ALSO HAS ONE RECEIVE AND TRANSMIT ROTATABLE LOG PERIODIC ANTENNA WHICH IS USED FOR DIRECTIONAL COMMUNICATIONS SUPPORT WHEN REQUIRED.
USING A GENERAL COVERAGE RECEIVER YOU CAN LISTEN TO NMN ON:

CIRCUIT (HF)(USB)		TRANSMIT	RECEIVE
AIR TO GROUND(VOICE)		5696.0KHZ	5696KHZ
		8983.0KHZ	8983KHZ
		11202.0KHZ	11202KHZ
SCN(VOICE)	CH 424	4426.0KHZ	4134KHZ(2330Z-1100Z)
	CH 601	6501.0KHZ	6200KHZ
	CH 816	8764.0KHZ	8240KHZ
	CH 1205	13089.0KHZ	12242KHZ(1100Z-2330Z)
SITOR(ARQ)	CH 64	6314.3KHZ	6264.5KHZ(2300Z-1100Z)
SELCALL 1097	CH 824	8426.3KHZ	8388KHZ
	CH 1227	12590.8KHZ	12490KHZ
	CH 1627	16817.8KHZ	16696.5KHZ
	CH 2227	22387.8KHZ	22297.5KHZ(1100Z-2300Z)

IF YOU HAVE ANY QUESTION, COMMENTS, OR SWL REPORTS SEND TO:
COMMANDING OFFICER
U.S. COAST GUARD CAMSLANT
4720 MILEPOST ROAD
CHESAPEAKE, VA 23322-4399
ATTN: TC3 M.L. SMITH
INTERNET ADDRESS FOR QSL MANAGER: ZUTSmitty@aol.com

U.S. NAVY (Military Sealift Command-MSC): MSC's military tanker fleet, which was operated under a long-term charter arrangement by International Maritime Carriers of New York until 1994, has been sold to foreign interests. Here's the disposition of the fleet:

MSC Vessel	New name	Notes
USNS Sealift Antarctic	Renata II	Panama flag
USNS Sealift Arctic	Vandou	

USNS Sealift Pacific	Patty Ann	Sold to Patricia Navigation
USNS Sealift Atlantic	Mavra	
USNS Sealift Caribbean	Santa Chiara	Sold to Sta. Sofia Maritime
USNS Sealift Mediterr.	San Marco	
USNS Sealift China Sea	San Ambrogio	
USNS Sealift Indian Ocean	Santa Anna	

The vessels have been replaced by a number of private tankers, including the Duchess, Patriot and Courier. The New York Sun has also been brought into the MSC fleet.

The coastal minehunter USS Cormorant was christened recently by Avondale Industries. It is the seventh of a class of 12 vessels. It is 188 feet long, has a glass reinforced plastic hull and is the first class of ships designed solely for minehunting for the U.S. Navy.

The U.S. Navy's seventh Aegis destroyer, USS Benfold (DDG-65) was delivered by Ingalls Shipbuilding on December 4. The Benfold is the first U.S. Navy ship to be built form the keel up with habitability modifications necessary to fully integrate women into its crew. Of a crew of 330, 46 are women.

Dave Alpert passes along the Web site for the U.S. Naval Observatory. It is: http://tycho.usno.navy.mil/time.html

US MILITARY SHIP ORDERS: Here is a list of ships presently on order for the US Navy and Coast Guard:

Vessel name	Type	Agency	Builder
USS Robin	MHC	US Navy	Avondale
USS Oak Hill	LSD	US Navy	Avondale
USNS Laramie	T-AO	US Navy	Avondale
USS King Fisher	MHC	US Navy	Avondale
USS Cormorant	MHC	US Navy	Avondale
USNS Bob Hope	Strat. Sealift	US Navy	Avondale
USS Pearl Harbor	LSD	US Navy	Avondale
USNS Fisher	Strat. Sealift	US Navy	Avondale
(unnamed)	Strat. Sealift	US Navy	Avondale
USS Cole	DDG	US Navy	Ingalls
USS Milius	DDG	US Navy	Ingalls
USS Ross	DDG	US Navy	Ingalls
USS Bataan	LHD	US Navy	Ingalls
USS McFaul	DDG	US Navy	Ingalls
(+3 unnamed)	DDG	US Navy	Ingalls
USS Bon Homme Richard	LHD	US Navy	Ingalls
USNS Shugart	T-AKR	US Navy	NASSCO
USNS Yano	T-AKR	US Navy	NASSCO
USNS Soderman	T-AKR	US Navy	NASSCO
USS Bridge	AOE	US Navy	NASSCO
(+3 unnamed)	T-AKR	US Navy	NASSCO
USS Ronald Reagan	CVN	US Navy	Newport News
USS Cheyenne	SSN	US Navy	Newport News
USS Greenville	SSN	US Navy	Newport News
USS Harry S. Truman	CVN	US Navy	Newport News
USCGC Healy	WAGB	US Coast Guard	Avondale
USCGC Willow	WLB	US Coast Guard	Marinette
USCGC Marcus Hanna	WLC	US Coast Guard	Marinette
USCGC Frank Shubert	WLC	US Coast Guard	Marinette
USCGC Kukui	WLB	US Coast Guard	Marinette
USCGC Anthony Petit	WLC	US Coast Guard	Marinette

Thanks to Jan Terveer in the Netherlands for the info on the Harriers, C-17s, Rafales, South African choppers and the Swedish Army. The material was forwarded by Ary Boender.

SPECIAL OFFER: I have a copy of the extensive information package produced by the U.S. Department of Defense concerning U.S. involvement in the Bosnian peacekeeping effort. Although it is much too large to present here, if you'd like a photocopy (about 20+ pages), I'll be happy to send it to you. Just send me your snail mail address by direct email to KH2AR@aol.com, and I'll

pop a copy into the post to you.

73s and gud DX to all.

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Utility Monitoring in the Maritime Bands
Editor: Jim Pogue (kh2ar@aol.com)
P.O. Box 3888
Memphis, TN 38173-0888 USA

Welcome to the January Nautical News column. Lots of information to share this time, so let's have a go at it.

* Six former American President Lines containerships, recently purchased by the Matson Navigation Co., have been renamed. The new names were chosen to be representative of the Pacific islands they serve. Here's the lineup.

Old name	New name	Type vessel
President Washington/WHRN	Mahimahi	C-9
President Lincoln/KDBG	Manoa	C-9
President Monroe/WNRD	Mokihana	C-9
President Hoover/WTST	Lihue	C-8
President Tyler/WEZM	Ewa	C-8
President Grant/WEZD	Chief Gadao	C-8

If the FCC follows their usual practice, the callsigns will not change in spite of the name changes.

* The Russian-flag M/V Kovrov has become the first Russian container vessel to call at the Port of San Diego. It's owners, South Pacific Container Line, have signed a contract to make monthly port calls there for the next five years. This may present a good opportunity for DXers to QSL a Russian merchant ship by sending their report to the vessel's San Diego agent.

* Korea's Samsung Shipyard at Koje has delivered it's first vessel, the Yukong Navigator, to Amaryllis Shipping SA. The vessel is a single-hull tanker.

* Japanese shipyards have delivered two new bulk carriers. They are the Asian Nova to Mars Shipping Co., Inc., and the Cape Jacaranda to the "K" Line.

* Cruise ships just keep getting larger. Princess Cruise Line's 856-foot-long, 77,000 ton Sun Princess, delivered last November, is currently the largest vessel of its type afloat. That record will soon be surpassed when Carnival Cruise Lines takes delivery of the Carnival Destiny later this year. Princess also plans two more mega-ships in the next few years. The Dawn Princess will be a sistership to the Sun Princess, and the Grand Princess will weigh-in at a trim 104,000 tons.

* A growing number of cruise ships are also entering or returning to the Alaska trade. Here's who will be in northern waters in 1996:

Cruise line	Vessels
Holland America	Ryndam, Westerdam
Royal Caribbean	Song of Norway, Legend of the Seas
Crystal Cruises	Crystal Symphony
Cunard	Sea Goddess II

Princess Cruises will also place six of their ships in Alaska this year.

* The new Royal Venture Cruise Line expects to enter the Western Caribbean trade in March when their recently refurbished Sun Venture is ready. This vessel was previously named the Gruziya. Another vessel, the Azerbaizhan, will be acquired and renamed the Star Venture. Both vessels are owned by the Black Sea Shipping Co., and are being taken on a five year lease. A third ship, already renamed the Sea Venture, is in Greece where it is expected to

be completed over the next 18 months.

* Radisson Seven Seas Cruises has signed a contract to manage a new 320-passenger deluxe cruise ship tentatively named the Paul Gauguin. Delivery is expected near the end of 1997, and the vessel will serve in the South Pacific trade. Radisson already manages the Radisson Diamond, Song of Flower and Hanseatic.

* Commodore Cruise Line will charter the 739-passenger Enchanted Seas to the University of Pittsburgh for the school's "University Afloat" program. It will replace the 43-year-old Universe, which will be sold to Orient Overseas Holdings, Ltd.

* Disney Cruise Lines has announced its first cruise liner will be named the Disney Magic. It is to be delivered in early 1998. The vessel will offer three and four-day cruises from Port Canaveral to one Caribbean port of call and to an island in the Bahamas that Disney is purchasing outright.

* Carnival Cruise Lines has chartered its vessel, the TSS Festivale, to Dolphin Cruise Line. Dolphin, in turn, has renamed it the SS IslandBreeze, and will begin two-and five-night cruises from New York In May of this year. The vessel entered service in 1961 as the S.A. Vall, and was acquired by Carnival in 1977.

* The U.S. Maritime Administration (MarAd) has given Lykes Brothers Steamship Co. the OK to terminate the current voyage of the Thompson Lykes in Haifa, Israel, following major repairs. It has also given Farrell Lines, Inc., the nod to charter and operate a foreign flag vessel as relief for their Export Freedom while it undergoes a drydocking period in 1996. The name of the relief vessel was not announced.

* Maritime Reporter & Engineering News has announced their "Great Ships of 1995." Here is their list of winners:

Vessel name	Type	Owner
London Glory	Tanker	London & Overseas Freighters
Hual Trooper	RoRo Car Carrier	Leif Hoegh & Co.
APL Japan	Containership	American President Lines
Heidrun	Shuttle tanker	Conoco/USA
Rhine	Containership	MOL Euro-Orient Shipping
Murex	VLCC	Shell Intl. Shipping Ltd.
Hai Wang Xing	Self-unloading bulk carrier	Chinese National Machinery Import and Export Corp.
Lista	Product tanker	Mowinchel Kysttanker AS
Hanjin Pyeong Taek	LNG carrier	Hanjin Shipping Co., Inc.
Cable Innovator	Cable ship	Cable & Wireless
Atlantic Liberty	VLCC	Exceed Shipping
Eeklo	LPG	Luxembourg flag

* WUN member Ken Bell in Nova Scotia sends along the following intercept. Perhaps someone across the pond can help him in his search for more info and QSLs.

"I live in Lunenburg NS (a small town 60 miles south of Halifax) and wanted to report this catch on 518 khz at 0030 on Dec. 15:

" becoming variable 3/4 and southwesterly at the end. southern half: northwesterly 3/4 increasing and backing westerly 4/5.stormy showers. good. moderate. informacion meteorologica a 151200 utc.aviso de temporal.temporal del oeste en gran sol.situacion a 15100 utc y evolucion.depresion 996 45n 45w profundizandose y desplazandose al norte.depresion 996 en el golfo de cadiz rellenandose y desplazandose haciafinisterre.anticiclon 1038 entre islandia y escociacasi estacionario.prediccion valida hasta 161800 utc.vizcaya: este 6 amanando posteriormentea componente sur ~r~tm aguaceros. buena.gruesa.~%8,8'53443: m~tad norte.~r~ 5~-.-8,-,$9 049,59 - =-48-?)3 3/4 yrolandoal final a suroeste. mitad sur: noroeste3/4 arreciando posteriormente a oeste4/5. aguaceros. buena. fuerte marejada.

nnnn zczc da0426 0030 utc oct 95navarea ii this is a trial message by the mrsc lacoruna through the transmitter located at finisterre coastal station (eaf) in position 42-zc de70 160034utc
Ken is quite pleased with his first trans-Atlantic catch (with good reason) and would like an address for EAF, Finisterre Radio, Spain, so he can shoot for a QSL. Contact Ken Bell (kbell@ra.isisnet.com)

* And finally, in case anyone missed them, here are a couple of interesting item that appeared recently on the WUN listserver:
From Andrew Brill in New Zealand, another HF marine station bites the dust!
ZMH98 Kerikeri Radio will cease operation after the regular sked at 0700 UTC on 31 Dec 95.
The station has been operating for the past 11 years and provided a valuable communications and search and rescue service for small ships throughout the South Pacific. The station recently provided comms for the small boat flotilla protesting French nuclear testing at Muroroa Atoll and has been involved in many major search and rescue operations over the years.
The station has been run on a voluntary basis by Jon and Maureen Cullen of Kerikeri, New Zealand and the closure is due to ill health and lack of funding.

And from Rick Albright,
According to Pacific Maritime magazine, Hapag-Lloyd has sold its 2,716 TEU container ship NEW YORK EXPRESS to Hamburg-Sued, which is renaming the vessel CAP ROCA. It will enter service between Europe and South America in March. Both shipping lines have been good QSLers in the past.

That wraps it up for this month. DX has been pretty slow here, but hopefully will pick-up soon. 73s, and keep those dials spinning.

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New Products, Books and Reviews
Rick "RD" Baker, editor
1352 Cavalcade Dr., Austintown, Ohio 44515-3844 or: ae411@yfn.ysu.edu

NEW PRODUCT REVIEW

AIRPLOT: software by Douglas John Standen

John has brought us some great ute software before and has been one of the few around developing programs to be used by utility listeners. Now he has brought out an all new program here with AIRPLOT. Several of his former programs have been completely overhauled, and we shall review them next month. AIRPLOT is intended for worldwide real time tracking of aircraft reporting their position by HF SSB.

Installation was very easy taking just a few minutes overall. The program features a Windows style program with the main MENU along the bottom of the display, while others are available in a drop down OPTIONS menu and drop down boxes. AIRPLOT runs on 286/386/486 or Pentium systems and requires serial microsoft style mouse in com 1 to 4. I ran it in a Compaq Presario Pentium 90 under Windows 95 and a generic 386/20 under DOS with good results.

The program generates maps at any scale anywhere in the world. A digitized world map data base containing some 178,000 latitude/longitude points is included. Smaller areas may be generated and the blank screen overlaid. Once the map is ready, the program is set for real time tracking.

Once you have received your position report by radio you select PLOT. This is a single line entry box. The report is then entered as received:

```
SPEEDBIRD123 50 00 N 30 00 W 1200 340 40 00 N 40 00 W 1245
SPEEDBIRD123 LINDA 1200 340 MIKE 1245
SPEEDBIRD123 50 00 N 30 00 W 1200 MIKE 1245
SPEEDBIRD123 LINDA 1200 340 40 00 N 40 00 W 1245
```

Military tracking users may enter an airspace block in the form 120-160 at the flight level input. The Reporting points will be converted to LAT/LONG if they are in the file, which can be added to. If an entry has been entered it will be checked for errors. An early error will just open the box again for re-entry.

Once you have an aircraft entered, a red dot will appear at the last position and a yellow dot at the next waypoint. Realtime drops a box that asks you to select A to track all your aircraft or S for speed and distance

on a specific aircraft. 'A' starts the plotting, a white line runs from the last position to the present position with a star marking the aircraft. A white star indicates an Eastbound flight and a light magenta star a Westbound flight. The ident is shown and carried along with the plot.

If a level change is notified, select LEVEL and enter the ident and the new level, when you return to Realtime, the new level will be shown on the plot!

Options

o CLEAR MEMORY: Removes the data holding information on the location of the waypoint stars.
o LOAD FROM FILE: Loads data and shows the last waypoint red stars, if
o TRACK is selected ON. Holds the data in memory for map changes. Not required for REALTIME plotting.
o REPORTING POINTS: Overlays all reporting points in the file RPT.PTS that apply to the current map.
o DRAW: Should you wish to add an Island or any shape other than text, this function is available in any color 1 to 15.
o MAP: Also available as an M from the keyboard. Reloads the current map, if a saved Map file. To change maps use SELECT, then MAP.
o MARKER PEN: Once selected point the mouse cursor at the spot you wish to enter text and press the left button. You may then select the text color following which you should enter your text by the word TEXT: once entered, press <return> and the text will appear at the selected spot.
o BLEEP: Causes the PC to bleep when an aircraft is within two minutes of it's ETA waypoint.
o TRACK: Turns the tracking line on and off. The default value is TRACK OFF. Following selection you may also choose to turn the yellow ETA star ON or OFF. Default value star OFF.
o CLEARANCE: Used for entering an oceanic clearance.
o IDENTIFY: Enter the flight ident as: Speedbird001 or BA001 and press <return>. If the flight details are in the database then the owner and flight details will given. A file, AIRLINE.DAT holds the conversion from flight letters to airline, while FLIGHT.DAT holds the Timetable route information,
o IDENTIFY.DAT holds the flight names to timetable conversion. The last two files must be upgraded by the user.
o CIRCLE: Draws a circle in white at the specified latitude and longitude.

AIRPLOT is a very extensive program. I have 'dabbled' with civil aircraft being stronger at "things that float". But after a few nights, I was banging away plotting everything in sight (or rather received -hi!). So I suspect even a novice aero buff could catch on fairly quickly. But what a blast to watch all these aircraft crossing the ocean on your screen in realtime! The various options designed with the aero listener in mind are great. John had some good input to this program from WUN's own Tony Orr. If your into aero listening, this program is for you.

Now as I write this column, John has been hard at it on a new version of AIRPLOT to be called AIRTRAK, but has a huge amount of extras over and above the old AIRPLOT. This version may already be released. AIRPLOT was 25 (UK pounds) and the new AIRTRAK will run 35 (UK pounds). Payment: Eurocheque or pounds:dollars conversion plus ten dollars in notes. Includes postage worldwide airmail. For more info, contact JHS SYSTEMS AND SOFTWARE, CROPTON, PICKERING, NORTH YORKSHIRE, YO18 8HL (UK) or via e-mail at john@metsys.demon.co

Next month we will review two of John's revised, updated, overhauled and all new programs; Synoptic and Sea Plot.

1996 KLINGENFUSS PUBLICATIONS LINE-UP

I received the following new product release from Klingenfuss Publications:

o The 1996 Super Frequency List on CD-ROM
"Now includes 8,500 entries for worldwide broadcasters". Also includes 14,500 frequencies from Utility Radio Station guide and 12,800 formerly active SW frequencies. DM 60/pound 29/U.S.$45
o 1996 Guide to Utility Radio Stations
"Includes latest Red Cross and UNO frequencies". 14,500 frequencies.

DM 80/pound 38/U.S.$58
o 1996 Passport to World Band Radio
570 pages (broadcast) DM 50/pound 24/U.S.$38

For more information, write Klingenfuss Publications, Hagenloher Str.14, D-72070 Tuebingin, Germany and ask for their latest catalog or check with your friendly near-by distributor.

That's all she wrote for this month, next time, more software reviews, and we have books and products scheduled down the road!
DE RD

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STATION VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

CIVIL AIRCRAFT

Medjet/MEJ-25	5616.0	USB	PFC	12 ds	letter		(IB)
Oman-1 Royal Flt.	5649.0	USB	PFC	16 ds	(A40-SP) letter, pix		(IB)
Sunwing-9903	6628.0	USB	PFC	18 ds	card, info, stickers		(IB)
Aeroflot 331C	8825.0	USB	PFC	77 ds	v.letter, info, stickers		(IB)
Sun Co/NIS	8846.0	USB	PFC	33 ds			(IB)
Borden Inc	8846.0	USB	PFC	26 ds	(N65B)		(IB)
Gal Air Taxi/PT-LXY	8861.0	USB	PFC	43 ds	letter, photo		(IB)
Translift/TLA-605	8864.0	USB	PFC	9 ds			(IB)
Air Vanuata-31/VH-TJI	8867.0	USB	PFC	30 ds	photo		(IB)
RA-76446/VDA-202	8936.0	USB	PFC	45 ds	letter, info, stickers		(IB)
Excalibur-708/G-BWCP	8960.0	USB	PFC	2 ds	letter, postcards		(IB)
Mahfooz Aviation/MZS-401	11300.0	USB	PFC	19 ds	letter, photo		(IB)
Aegean Aviation/SX-BNT	11345.0	USB	PFC	19 ds	info		(IB)
Niugini-393/P2-ANG	11396.0	USB	PFC	29 ds	letter, postcards		(IB)
Affretair AFM-07/ZWMJ	8903.0	USB	PFC	113 ds	(DC-8)		(FD)
Air Atlanta/TF-ABG	5649.0	USB	PFC	14 ds	(ABD700) info, map		(FD)

CIVIL SHIPS

Tug Crusader/WYP4482	8294.0	USB	PFC	24 ds	letter, info		(IB)
M/V Grampian Warrior/2MGD	2182.0	USB	PFC	22 ds	letter, photo		(FD)
M/V Edwin H. Gott/WXQ4511	4077.0	USB	PFC	38 ds	photo, 1000'r		(JSM)
M/VOglebay Norton/WAQ3521	4077.0	USB	PFC	30 ds	photo, 1000'r		(JSM)
S/S John G. Munson/WE3806	4077.0	USB	PFC	18 ds	photo, 150w		(JSM)
M/VStewart J.Cort/WYZ3931	4077.0	USB	PFC	55 ds	photos,1000'r		(JSM)
S/T Overseas Alaska/WEHV	8382.5	RTTY	PFC	32 ds	150w		(JSM)
S/T Overseas Ohio/WJBG	8382.5	RTTY	PFC	22 ds	150w		(JSM)
S/S Keystone Canyon/KSFK	12487.5	RTTY	PFC	21 ds	500w		(JSM)
M/V Pacific King/3FJN4	12439.0	CW	PFC	59 ds	800w vertical		(JSM)
M/V Fuji Maru/JHOK	12443.0	CW	PFC	33 ds	photos, fish rsch vsl		(JSM)

FIXED STATIONS

Cotonou Aero/BEN	6586.0	USB	PFC	21 ds			(IB)
Ougadougou Aero/BFA	6586.0	USB	PFC	40 ds			(IB)
Darwin Control/VHM	8122.0	USB	PFC	54 ds			(IB)
NDB Corner(Norrkping)/COR	388.0	CW	PFC	192 ds	letter		(FD)
NDB Bromma/OU	322.0	CW	PFC	192 ds			(FD)
MFA Praha/OLZ88	9278.0	RTTY	PFC	32 ds	hamcard		(FD)
NTRA Oslo/LN2A	7870.0	CW	-	25 ds	letter		(FD)
Rig Ocean Alliance/HP7227	2182.0	USB	PFC	22 ds	letter, logbook copy		(FD)
Pucallpa Aeradio	8896.5	USB	PFC	29 ds	letter, postcards		(DHM)
Resolute Radio/VFR	7710.0	F1C	-	130 ds	letter		(RR)
HD2IOA Ecuador	3810.0	AM	-	60 ds	QSL card, letter, info		(JD)
NDB Dickson TN/DMZ	203.0	CW	PFC	16 ds	unsigned		(JD)
NDB Galveston TX/GLS	206.0	CW	PFC	14 ds			(JD)
NDB Gallatin TN/GYN	214.0	CW	PFC	30 ds	unsigned		(JD)

NDB Huntingdon TN/HZD	217.0	CW	PFC	12 ds		(JD)
NDB Harrisburg IL/HSB	230.0	CW	PFC	11 ds		(JD)
NDB Lafayette TN/LFB	245.0	CW	PFC	13 ds		(JD)
NDB Atlanta GA/BR	266.0	CW	PFC	14 ds	books, aero charts	(JD)
NDB Sturgis KY/TWT	276.0	CW	PFC	15 ds		(JD)
NDB McRae GA/MQW	280.0	CW	PFC	10 ds		(JD)
NDB Albertville AL/ARF	296.0	CW	PFC	12 ds		(JD)
NDB Calhoun GA/OUK	323.0	CW	PFC	7 ds	info, ham qsl k4cks	(JD)
NDB Pensacola FL/PKZ	326.0	CW	PFC	15 ds		(JD)
NDB Waverly TN/AEY	329.0	CW	PFC	12 ds		(JD)
NDB Charleston SC/CH	329.0	CW	PFC	-- ds	unsigned, info	(JD)
NDB Tullahoma TN/ULH	332.0	CW	PFC	11 ds		(JD)
NDB Cleveland OH/CL	344.0	CW	PFC	30 ds	unsigned	(JD)
NDB Huntsville AL/CWH	350.0	CW	PFC	15 ds	letter	(JD)
NDB Little Rock AR/LI	353.0	CW	PFC	14 ds		(JD)
NDB Fayetteville TN/TNY	358.0	CW	PFC	30 ds		(JD)
NDB Gainesville GA/FKV	365.0	CW	PFC	16 ds		(JD)
NDB McAllen TX/MF	388.0	CW	PFC	8 ds		(JD)
NDB Xenia OH/XEN	395.0	CW	PFC	30 ds		(JD)
NDB Sault St. Marie MI/CI	400.0	CW	PFC	30 ds	unsigned	(JD)
NDB Rochester NY/RO	400.0	CW	PFC	30 ds	unsigned	(JD)
NDB Salem IL/SLO	400.0	CW	PFC	30 ds		(JD)
NDB Mayfield KY/GGK	401.0	CW	PFC	14 ds		(JD)
NDB Columbus IN/BA	410.0	CW	PFC	11 ds		(JD)
NDB Mt. Carmel IL/AJG	524.0	CW	PFC	14 ds		(JD)

MILITARY/COAST GUARD SHIPS

HMS Middleton/GYHL	2182.0	USB	PFC	10 ds	badge, stickers, info	(IB)
HMAS Warrnambool/VLRM	8122.0	USB	PFC	12 ds	info	(IB)
HMAS Moresby	8122.0	USB	PFC	33 ds	letter, info	(IB)
USS Comstock/NNN0CWK	14391.0	USB	PFC	68 ds	letter, pix, info	(IB)
Destroyer Rommel/DRAG	10192.5	USB	-	205 ds	letter, photo	(FD)
FGS Brandenburg/DRAH	6779.0	USB	PFC	27 ds	verif letter, cachets	(RB)
FGS Lutjens/DRAE	6779.0	USB	PFC	74 ds	photos, stamp	(RB)
HMCS Gatineau/CGWF	6694.0	USB	PFC	88 ds		(RB)
USAV Chickasaw Bayou/AAEB	6227.0	USB	PFC	20 ds	photo, letter	(RB)
USCG Monomoy/NKEC	2670.0	USB	PFC	15 ds		(RB)
USS O'Bannon/NNN0CXG	14441.5	USB	PFC	22 ds	(MARS Sta)	(RB)
USS Missouri/WW2END	7035.0	CW	-	115 ds	card w/photos,sp VJ-day	(RA)
Ny Vessel Emden/DRAT	10192.5	USB	PFC	81 ds		(IB)

MILITARY AIRCRAFT

Ascot 5382/XV290	4742.0	USB	PFC	22 ds	(C-130) info	(IB)
Agar 24	8891.0	USB	PFC	72 ds	sticker	(IB)

MARITIME/NAVAL/COAST GUARD/STATIONS

Forth Coast Guard	2182.0	USB	PFC	5 ds		(FD)
Yarmouth Coast Guard	2182.0	USB	PFC	10 ds	info	(FD)
Padstow Lifeboat	2182.0	USB	PFC	4 ds	viewcard	(FD)
Palma Radio	2182.0	USB	-	21 ds	info	(FD)
Muroto Fisheries R./JFM	8508.0	CW	PFC	38 ds	2kw dipole	(JSM)
Shizuokaken Fish. R./JFG	12811.0	CW	PFC	20 ds	photos, 1kw dipole	(JSM)
Kushiro Fisheries R./JFZ	16942.8	CW	PFC	37 ds	500w inverted-L	(JSM)
Misaki Fisheries R./JFC	12832.5	CW	PFC	36 ds	2kw vertical fan	(JSM)
Wilhelmshaven Nvl./DHJ59	10192.5	USB	PFC	33 ds	comp generated card	(RA)
USCG GRPLongIslSnd./NMY15	2670.0	USB	PFC	15 ds		(RB)
Valentia Radio/EJK	2182.0	USB	PFC	25 ds	verif letter	(RB)

CRUISE/PASSENGER SHIPS

M/V Orient Venus/JFYU	8355.0	CW	PFC	32 ds	175m	(JSM)

*** TIPS & TIDBITS ***

Rick Albright reported recently the sale by American President Lines of six of its Pacific-fleet container-ships to Matson Navigation Co. The vessels involved, Presidents Washington, Lincoln and Monroe, are to be renamed Mahimahi, Manoa and Mohikana, while Presidents Hoover, Tyler and Grant will become Lihue, Ewa and Chief Gadao. Albright points out that in similar past

transactions, the old radio callsigns were retained. Matson ships, which are frequently heard on USB HF, are known to QSL nearly 100%, he says, while other shipping co.'s have a much spottier record.

Kevin Wonders got back a QSL recently for a reception report sent to Tinker AFB, for which he provides this address:

(Station Name), 7481 Sentry Blvd., Suite 117, Tinker AFB OK, 73145-9012
Fellow wunner Steve McDonald has sent along a whole bunch of addresses this month, the by-product of a recent spate of successful QSLing:
JFM: Muroto Radio (JFM), 2318 Furushiro Murotsu Murotsu-city, Kochi-Prefecture, Japan
JFG: Shizuokaken Musen (Gyokyo), 1991-1 Tajiri, Yaizu-shi Shizuokaken-ken, 425, Japan
JFZ: Mushiro Fisheries Radio, 1-5-15 Yonemachi, Kushiro-city, Hokkaido 085, Japan
JFC: Misaki Gyogyo, 1-7 Harumi Miura, Japan 23802
WYZ3931: m/v Stewart J. Cort, c/o: Canal Station, Sault Ste. Marie, Michigan 49783 USA
WAQ3521: m/v Oglebay Norton, c/o: Detroit Marine Post Office, River Station, Detroit, Michigan 48222 USA
WE3806: m/v John G. Munson - via: Detroit Marine PO
WXQ4511: m/v Edwin H. Gott - via: Detroit Marine PO
WJBG: s/t Overseas Ohio, attn: Radio-Electronics Officer, c/o: Second Shipmor Association, Maritime Overseas Corp., 511 Fifth Ave., New York, NY 10017 USA
KSFK: s/s Keystone Canyon, attn: Radio Electronics Officer, c/o: Keystone Shipping Co., 313 Chestnut St., Philadelphia, PA 19106 USA
3FJN4: m/v Pacific King, attn: Radio-Electronics Officer, c/o: Hyundai Merchant Marine Co., 4-10th Floor, Mukyo Hyundai Bldg., 96, Mukyo-dong, Chung-ku, Seoul, Korea
JHOK: Nitoh, Chief of Ship Managing Section, Shizuoka Pref. Fisheries Experimental Station, 3690 Shioiri Kogawa, Yaizu-city, Shizuoka Pref, Japan
JFYU: m/s Orient Venus, attn: Radio-Electronics Officer, c/o: Japan Cruise Lines Inc., Osaka-Ekimae No.2 Building 13F, 1-2 Umeda, Kita-ku, Osaka, Japan 530
WEHV: s/t Overseas Alaska, attn: Radio-Electronics Officer, c/o: Intercontinental Bulktank Corp., 511 5th Ave., New York, NY 10017 USA
VFR: Gerant de Station Radio, Garde Cotiere Canadienne, C.P. 148, Resolute Bay, T.N.W. X0A 0V0 Canada
CGTF: CCGS Terry Fox, Attn: Radio-Electronics Officer, c/o: Dartmouth CG Station, P.O. Box 1000, Dartmouth, NS Canada B2Y 3Z8

A topic that has come up in recent months is the correct address to send reception reports for German Naval Station DHJ59. Several variations are currently available. But since successfully receiving a QSL from the station, Rick Albright now provides the one definitive address:

Marinefernmeldegruppe 21
Fernmeldezentrale
Postfach 27 31
D-26379
Wilhelmshaven
Federal Republic of Germany

Nicholas Lock of Australia recently received a QSL from Brisbane Air-Radio for which he provides this address:

Airservices Australia
Air Traffic Services - Northern District
Brisbane Airport
PO Box 389
Hamilton Central QLD 4007
Australia
Tel: +61 7 3866 3668
Fax: +61 7 3866 3568
Iain Wyeth
Team Leader

Brisbane International HF
Brisbane Briefing Office
Australian NOTAM Office

Ian Baxter wants to know if anyone can identify the following three-letter codes as callsigns or otherwise: TSG / EXW / VGO / OBI.

Don Moore was recently pretty impressed by a QSL he received from a Peruvian aero station (see Fixed Stations) -- his second such veri -- and provides the following address:

Pucallpa Aeradio, Jefatura de Aeropuerto de Pucallpa, CORPAC, Pucallpa, Peru
Ralf Radermacher received one from Environment Canada's Resolute N.W.T. station VFR the other day, somewhat late on account of bad addressing. So he has this address now taken from the letter:
Environment Canada
Arctic Weather Centre
Twin Atria Building
Room 200, 2nd Floor
4999 - 98 Avenue
Edmonton, Alberta
T6B 2X3
Internet: burkeg@mail.edm.ab.doe.ca <Gary Burke> (Program Supervisor)

# # #

'GOOD', 'FAIR' AND 'POOR' UTES THERE TO QSL

If you've never QSL'd a ute station, or if like me you have but only on a few occasions, maybe it's about time you considered trying again. The truth is that logging stations you hear on HF is only half of what ute listening is all about. There is nothing like receiving a written verification by mail to give you the feeling of actually being in contact with a distant station and in some way thus participating (even if obscurely) in its day-to-day operation.

With some of the information made available in this and past QSL Reports, you've got a fairly wide selection of utility stations, and their addresses, which are proven verifiers. The rate of return versus reception reports sent is surprisingly not all that bad. One seasoned QSL'er here on WUN, who keeps a database of his verifications, reports an average waiting time of about 50 days for QSL's -- in some cases it's less than a week.

If you're looking to QSL some real drop-dead-easy stations, take into account that some of them may not even be considered utilities in any sense but technically by the seasoned utes. Time stations like WWV and CHU are easy pickings. But like fish that just don't make the grade with fishermen, these stations are not considered legit catches either by many listeners.

But rather than being categorical and talking about 'easy' and 'hard' stations, it might be better to put it in terms of 'good', 'fair' and 'poor' ute QSL'ers. What was an easy verification for one ute might be a difficult catch to another a little later. Sometimes luck or other unforeseeable factors are all that make the difference.

The Canadian and U.S. coast guards are regarded as 'reliable' QSL'ers. Their weather broadcasts (such as those of NMN Commsta Portsmouth), heard regularly over HF and intended for the public, make first-rate targets for QSL's. On the other hand, the same stations working classified traffic are far less likely to be verified. Remember that it is very important that proper ute QSL procedures be used. Unless it is a volmet (aero weather) or other broadcast of information intended for public use, you should only state in your report who was in contact with whom, at what time UTC, what frequency and in what transmission mode. NEVER should a person's name be quoted as a means of identifying the transmission. Remember that utility stations are likely to regard you as a 'snoop'. Explaining your hobby briefly can help.

As a rule, do the following for every station you QSL. For stations in the U.S., or U.S. military and coast guard, send your own PFC and SASE. For those outside the U.S., send PFC, mint-stamps (covered in next month's column), and an adhesive label on which you've typed out your return address. Standard sizes for envelopes and stationary may vary throughout the world -- their stationary may not fit your envelope -- so it's better to be on the safe side by giving them the option of using your label. (In fact it might

not be a bad idea always to send a prepared address label either in or outside the U.S.) Some of the envelopes and stationary sent back to you can themselves become quite attractive collectors items. From certain shipping companies, and some warships for example.

A quick scan of a ute QSLer's files reveals that warships aren't heard from that often. However the Australian and Royal Navy are said to be darn good sports in verifying reception reports. The same would seem to be the case with military shore stations.

Until next month, try a little QSLing, and 73.

# # #

Thanks to this month's contributors:
(IB) Ian Baxter, UK
(FD) Friedhelm Devers, Germany
(JSM) Steve McDonald, Canada
(RA) Rick Albright, USA
(RB) Rick Baker, USA
(NL) Nicholas Lock, Australia
(DHM) Don Moore, USA
(JD) Jill Dybka, USA
(RR) Ralf Radermacher, Germany

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SURFING THE LONGWAVES

Editor: George Karayannopoulos, N2OWO
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BEACONS WUNTED

This issue marks the first anniversary of WUN. Congratulations are due the other editors of the newsletter for a great job done! Also, kudos to all who posted on the WUN mailing list and have made WUN the great club that it is! I think that we have demonstrated beyond the shadow of any doubt the usefulness of Internet to a hobby such as ours.
In order to celebrate the first anniversary, this column joins the festivities by introducing a new feature. It will be a running list of all LF stations that WUNers have heard, but are unable to identify. I call it the WUNTED list (for "wanted" list -- get it? OK, OK, so _YOU_ suggest a better name :-) If you have any station you need identified, let me know. I will place it on the list until someone identifies it for us. Send me as much info about the station as you have. Date and time heard might be important, a bearing, ID period and other details, everything helps. Even if you are not sure about the ID, someone may be able to suggest what you MIGHT have heard. It has happened to the best of us.

This list will serve us better than simple posts on the WUN list. As long as nobody can identify your station, it remains on the list, until someone comes across a reference for it and can identify it for us. Without the WUNTED list, you would have to keep posting your unid's on the WUN list periodically, which wastes bandwidth. So keep looking at the list.

Take a look at the first appearance of the list, below. If you don't know the ID of these stations, try to listen for them. If you catch them too, take a bearing and any other signal info you can and send them to me. The more we know about the station, the better.

On the other hand, if you know any of the listed stations, or can find it in your references, let me know. I will identify the station in the column and remove it from the list. It is important to let me know directly (as opposed to the WUN mailing list), so that the WUNTED list will be kept up to date.

Obviously, this will be a living list. Here is the first version, compiled

with unknown stations submitted recently to the column.

WUNTED LF STATION LIST

ID	Freq.	Heard in	Comments
TE	214	NE USA	or N; double sideband, period 7 sec
W	272	NE USA	
CB	289	NE USA	14 Ids, fol by _*_____
W	295	NE USA	
FE	334	NE USA	Period ~5 sec, ID plus tone
ZDX	367	NE USA	Stryker says ZDX on 369, but no double sideband; the tzb for this one was 368.1
2R	373	NE USA	Period 10 sec, ID + tone
YRR	377	NE USA	Tentative Ottawa, Canada
D9	383	NE USA	Period 10 sec
3B	391	NE USA	
GAS	420	NE USA	Not sure abt the ID
PPA	450	NE USA	Period 9 sec
TVX	521	NE USA	or EVX; fast CW
ZLS	526	NE USA	Period 10 sec
PX	1638	NE USA	MF beacon

After I assembled this first version of the list, I began looking through my own references to try to ID these stations. Here is what I found:
CB 289 kHz QTH: Cape Henry LS, Virginia, USA.
2R 373 kHz QTH: Tyendinaga Mohawk, Ontario, Canada.
YRR 377 kHz QTH: Greely, Ottawa, Ontario, Canada; ex-R; power 22 watts (tnx Lowdown and rkdx@aol.com).
D9 383 kHz QTH: Huntsville, Ontario, Canada.
3B 391 kHz QTH: Brockville, Ontario, Canada.
GAS 420 kHz QTH: Gallipolis, Ohio, USA.
PPA 450 kHz QTH: Puerto Palta, Dominican Republic.
TVX 521 kHz QTH: Greencastle, Indiana, USA.
ZLS 526 kHz QTH: Stella Maris, Bahamas.
PX 1639 kHz (reported as 1638 on the list) MEDFER beacon, operated by David Holland, in Berlin, Maryland, USA. David also operates LOWFER beacon DCH on 187.335 kHz.

Several of these came from previous issues of the Lowdown. Yet, the transmitter location is the bare minimum info for a station. I would appreciate any more details on these stations, such as what kind of beacons they are, their latitude and longitude, power, etc.
So, we already have several identified. These will be removed from the list, and replaced with the ones YOU send me. So keep'em coming in!
When submitting a new listing, let me know as much as you can about the station, including YOUR location.

OTHER BUSINESS
First the bad news. Due to a major glitch in my Internet provider's system, I lost all my old mail. So, if you have written to me asking for information, or for any of our files, and you have not heard from me, please send me mail again. This time, I will make sure to save it on multiple floppies, distributed among different physical locations, and enclosed in fire/flood/hurricane-proof shelters. My address remains the same: karayan@crow.cybercomm.net
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Needless to say, successful radio monitoring depends on timely information. We have an ongoing project of assembling a definitive list of LF resources, regardless of medium. So far, thanks to dedicated WUNers, I have gathered the obvious paper-based info sources, and some not so obvious. Those of you who closely monitor the WUN mailing list have noticed the recent postings regarding resources on the Internet. There are at least two WWW URLs that

allow you to search for North American aerobeacons. The URL of one is:
http://www.cc.gatech.edu/db1/fly/navaid-info.html
The other has been reported to us by Kevin Carey, of Monitoring Times fame. Unfortunately, with the loss of my mail, I lost that URL too. I would appreciate it if someone could send it to me. Kevin's site is superior to the one listed above, in that it allows search by frequency, a feature that is not useful to pilots, but can be critical for beacon hunters.
For those with no access to the Web, and for the hardy souls who want to write their own search code, raw data from the US Federal Aviation Administration (FAA) can also be FTPed anonymously from:
aviation.jsc.nasa.gov
with the path being: /pub/fly/data/ or from the Web, via the URL:
ftp://aviation.jsc.nasa.gov/pub/fly/data/
There are a couple of files that you will want to download.
Regarding this data, I am working on a new search mechanism that may offer some exciting possibilities. More on that in the near future.
Last, but not least, we have our own files. I have not yet had the time to work on them. If there are any volunteers, let me know.
If you have ANY suggestions for what should go into that list, however obvious, let me know. When this list of LF resources, both on paper and the Internet, reaches a semi-stable form, I will post it on this column, and make available on the Web site. We can then add any new resources, as we come across them.

HAARP
For those of you interested in the HAARP project, check these resources out:
http://server5550.itd.nrl.navy.mil/projects/haarp/haarpIndex.html
which is HAARP's own homepage, with NEAT antenna pictures. Don't you WISH you had an antenna farm that closely resembles the one at
http://server5550.itd.nrl.navy.mil/projects/haarp/HaarpSite.html ?????

Some VERY interesting stuff on "Communication through Ionospheric Modification" from Penn State University is listed at:
http://www.arl.psu.edu/general/hotsheet17.html
These guys are working with HAARP, doing some HF prop monitoring! So who needs sunspots anyway?

For the more technically minded WUNers, the Norwegian EISCAT site:
http://seldon.eiscat.no/heater.html
seems similar to HAARP and describes their ionospheric heating work. Hmmm... HAARP-related discussions, on all sides, have taken place in various newsgroups; among them: sci.military.naval, sci.physics.electromag, and of course, all conspiracy-minded newsgroups. Search DejaNews, or your favorite news search engine for detailed articles.

Well, that's it for now! Keep looking for new ones!...

73 es gud DX, de George, N2OWO
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UTILITY ROUND-UP
[editor: Ary Boender (ary@bitbike.iaf.nl 2:283/512.24)]

Hello and welcome to our first birthday party. This month I have the final part of the Radio Navigation Signals series for you. That means that we're back to normal next month :-) Is there anything that you want to read about in this column, just yell and I'll see what I can do for you. Enjoy and party on ! See ya next month. -Ary-

Radio navigation signals, part 3
==========
In the final part of this series I'll cover DECCA, MARS-75, (D)GPS and everything what is left. Comments and supplements will be included in next month's column. So, keep the info coming.....

Decca Navigator System

The DECCA navigator system is a high accuracy navigational aid intended for coastal navigation. It operates as a continuous wave phase comparison system on LF. Each Decca chain consist of a Master station and two or three slave stations, resp. Red, Green and Purple. The slaves are located between 60 and 120 n.miles from the master. The accuracy of this system depends amongst others on the distance from the transmitters, the time of the day and the season of the year and give the position within 50 meters under favourable conditions up to 100 n.miles from the Master station. Although GPS is rapidly winning territory, there are still 30 chains left around the world; 2 in Japan, 1 in India, 1 in the Persian Gulf, 5 in South Africa and 21 in Western Europe and Scandinavia. During the last 4 years many chains have disappeared, being replaced by GPS. Just recently the two Spanish chains closed down.
So how does it sound ? It sounds like very slowly transmitted Morse, like a beacon. You can hear patterns of dots and dashes. Combinations of dots and dashes or dashes only. Just tune in on the frequencies and you'll know what I mean :-)

DECCA chains.
  Sequence: country, name and number of the chain, followed by resp.
  the Master station and the Red, Green and Purple slave stations.

Japan
* Kyushu chain (7C)
  Maebaru, Kamiagata, Nagisima, Seto
* Hokkaido (9C)
  Biei, Akkeshi, Wakkanai, Oshamanbe

Persian Gulf
* S. Persian Gulf chain (1C)
  Qarnain, Doha, Munayyif, Ras Zubayyah

India
* Salaya chain (2F)
  Kodal, Kuranga, Dhuvav, Naliya

South Africa
* Namaqua chain (4A)
  Noordoewer, Chamaites, Gamdep Pofadder, Port Nolloth
* Cape chain (6A)
  Matroosberg, Piket Berg, Ladismith Cape, Klein Mond
* Eastern Province chain (8A)
  Addo, Port Alfred, Clarkson, Swaershoek
* S.W. Africa chain
  Usakos, Sorris Sorris, Isabis, Swakopmund
* Natal chain (10C)
  Matatiele, Elliot, Mooirivier, Margate

Europe
* South Baltic chain (0A)
  Holmsjo, Sandhammaren, Burgsvik
* Vestlandet chain (0E)
  Sotra, Statt, Shetland Islands, Jaren
* S.W. British chain (1B)
  Bolberry Down, Jersey, St.Mary's, Llancarfan
* Northumbrian chain (2A)
  Allerdean Greens, Stirling, Peterhead, Burton Fleming
* Holland chain (2E)
  Gilze-Rijen, Heiloo, Sas van Gent, Thorpeness
* N. British chain (3B)
  Kidsdale, Clanrolla, Neston, Stirling
* Lofoten chain (3E)
  Andoya, Torsvag, Rost, Narvik
* N. Baltic chain (4B)
  Nynashamn, Aland, Ar, Bjorvik
* Trondelag chain (4E)
  Skaroy, Rorvik, Statt, Berkak
* English chain (5B)

Puckeridge, Shotisham, East Hoathley, Wormleighton
* N. Bothnian chain (5F)
Lovanger, Gamla Karleby, Kallax, Jarnas
* N. Scottish chain (6C)
Kirkwall, Butt of Lewis, Lerwick, Peterhead
* Gulf of Finland chain (6E)
Mantsala, Padva, Sydankyla
* Danish chain (7B)
Samso, Moen, Eojer, Hjorring
* Irish chain (7D)
Galway, Ballydavid, Dungloe, Youghal
* Finnmark chain (7E)
Reksunnjarga, Virgasfjell, Fakken, Nordkap
* S. Bothnian chain (8C)
Njurunda, Skutskar, Jarnas
* Hebridan chain (8E)
Barra, Kentra Moss, Butt of Lewis, Dungloe
* Helgeland chain (9E)
Donna, Rost, Rorvik, Mo I Rana
* Frisian Islands chain (9B)
Finsterwolde, Hoyer, Heiloo, Zeven
* Skagerak chain (10B)
Fjallbacka, Jomfruland, Valda, Arjang

DECCA frequency list

Purple	Master	Red	Green	Name and number of the chain
70.979	85.175	113.567	127.763	Cape chain (6A)
71.138	85.365	113.820	128.048	Danish chain (7B)
71.283	85.540	114.053	128.310	Eastern Province chain (8A)
70.833	85.000	113.333	127.500	English chain (5B)
71.213	85.455	113.940	128.183	Finnmark chain (7E)
71.433	85.720	114.293	128.580	Frisian chain (9B)
71.058	85.270	113.693	127.905	Gulf of Finland chain (6E)
71.363	85.635	114.180	128.453	Hebridian chain (8E)
71.508	85.810	114.413	128.715	Helgeland chain (9E)
71.438	85.725	114.300	128.588	Hokkaido chain (9C)
70.458	84.550	112.733	126.825	Holland chain (2E)
71.208	85.450	113.933	128.175	Irish chain (7D)
71.142	85.370	113.827	128.055	Kyoshu chain (7C)
70.613	84.735	112.980	127.103	Lofoten chain (3E)
70.683	84.820	113.093	127.230	Namaqua chain (4A)
71.588	85.905	114.540	128.858	Natal chain (1C)
70.688	84.825	113.100	127.238	North Baltic chain (4B)
70.913	85.095	113.460	127.643	North Bothnian chain (5F)
70.538	84.645	112.860	126.968	North British chain (3B)
70.988	85.185	113.580	127.778	North Scottish chain (6C)
70.379	84.455	112.607	126.683	Northumbrian chain (2A)
70.463	84.555	112.740	126.833	Salaya chain (2F)
71.583	85.900	114.533	128.850	Skagerak chain (10B)
70.083	84.100	112.133	126.150	South Baltic chain (0A)
71.292	85.550	114.067	128.325	South Bothnian chain (8C)
70.238	84.285	112.380	126.428	South Persian Gulf chain (1C)
71.437	85.725	114.300	128.588	SW Africa chain (9C)
70.233	84.280	112.373	126.420	SW British chain (1B)
70.763	84.915	113.220	127.373	Trondelag chain (4E)
70.163	84.195	112.260	126.293	Vestlandet chain (0E)

GPS & DGPS

As you probably know, GPS is a satellite system and transmits on ca 1.3 GHz and that is way beyond the 0-30 MHz spectrum that we normally handle here. There is however an important link to the radio navigation systems in our frequency range. A rapidly increasing number of stations transmits Differential GPS signals on LF and MF.

o What is GPS ?

GPS stands for Global Positioning System and is a space-based positioning, velocity, and time system that has three major segments: space, control, and user. The GPS Space Segment, when fully operational, will be composed of 24 satellites in six orbital planes. The satellites operate in circular 20,200 km orbits at an inclination angle of 55 degrees and with a 12-hour period. The spacing of satellites in orbit will be arranged so that a minimum of five satellites will be in view to users worldwide, with a position dilution of precision (PDOP) of six or less. Each satellite transmits on two L band frequencies, L1 (1575.42 MHz) and L2 (1227.6 MHz). L1 carries a precise (P) code and a coarse / acquisition (C/A) code. L2 carries the P code. A navigation data message is superimposed on these codes. The same navigation data message is carried on both frequencies.

The Control Segment has five monitor stations, three of which have uplink capabilities. The monitor stations use a GPS receiver to passively track all satellites in view and thus accumulate ranging data from the satellite signals. The information from the monitor stations is processed at the Master Control Station (MCS) to determine satellite orbits and to update the navigation message of each satellite. This updated information is transmitted to the satellites via the ground antennas, which are also used for transmitting and receiving satellite control information.

The user segment consists of antennas and receiver-processors that provide positioning, velocity, and precise timing to the user.

o Signal Characteristics
The GPS concept is predicated upon accurate and continuous knowledge of the spatial position of each satellite in the system with respect to time and distance from a transmitting satellite to the user. Each satellite transmits its unique ephemeris data. This data is periodically updated by the Master Control Station based upon information obtained from five widely dispersed monitor stations.

Each satellite continuously transmits a composite spread spectrum signal at 1227.6 and 1575.42 MHz. The GPS receiver makes time-of-arrival measurements of the satellite signals to obtain the distance between the user and the satellites. These distance calculations, together with range rate information, are combined to yield system time and the user's three-dimensional position and velocity with respect to the satellite system. A time coordination factor then relates the satellite system to Earth coordinates.

o Differential GPS
Differential GPS (DGPS) is the regular Global Positioning System (GPS) with an additional correction (differential) signal added. This correction signal improves the accuracy of the GPS.
* Accuracy improvement: 10 meters or better for DGPS vs. 100 meters or better for GPS.
* Integrity improvement: provides an independent check of each GPS satellite's signal, and reports whether it's good or bad.

DGPS receivers collect navigational signals from all satellites in view, plus differential corrections from a DGPS station in the area. (Many DGPS receivers consist of two units: a GPS receiver, with a data "port" for DGPS corrections, directly connected to a radio receiver.) DGPS receivers display position, velocity, time, etc., as needed for their marine, terrestrial, or aeronautical applications.
The GPS determined position of a reference station is computed and compared to its surveyed geodetic position. The differential information can be broadcast to the users by radio. Info can be included in other positioning systems like Hyperfix, or on a sub-FM-channel by using RDS. Most of the DGPS stations however transmit 24 hours a day on LF or MF. In many cases marine radiobeacons that has been modified to accept MSK (Minimum Shift Keying) modulation are being used for DGPS transmissions, some broadcast only on request. Radiobeacons were chosen because of existing infrastructure, compatibility with the useful range of DGPS corrections, international radio conventions, international acceptance, commercial availability of equipment and highly successful field tests.
So far I heard two different sounding types of signals. One has a specific

sound, like packet radio but with longer bursts. This system uses 250 bd QPKS (Quarternary Phase Shift Keying) although also 100 and 300 bd broadcasts have been noted. The other sounds like Sitor-B and is in fact MSK transmitted with a speed of 50, 100, 200 or 300 bd.

o MSK stations
So, where can you hear those babies ? As I said, many beacons are being used for DGPS nowadays so you have to listen between 285 and 325 kHz. The list is far too long to publish here and new stations are added regularly. The stations in this range are all MSK stations.
The coverage is becoming world wide. Stations have been reported from the America's, New Zealand, Australia, Europe and the Mediterranean area.

o QPSK stations
A report from New Zealand states that the Radio Frequency Service of the Ministry of Commerce, who are responsible for all NZ frequency allocations, confirms that a QPSK station on 1818.6 kHz is a NZ navigational station. The the station is located in the lower North Island.
The same kinda stations were reported from the Mexican Gulf area, from the Canadian East Coast, from the Mediterranean area and from Western Europe and Scandinavia. Check the frequency range from ca 1700 to 3000 kHz. Most US and Canadian loggings were between 1800 and 2100 kHz.

GLONASS

The Russian counterpart of GPS is GLONASS, an acronym for GLObal NAvigation Satellite System. Full deployment of the system (up to 24 satellites) was completed last year. A modernized version of the satellites is on its way. The Russian Space Forces plan to start flight tests of new GLONASS-M program in 1996. The new GLONASS-M satellite will have higher garanteed period of service (5 years instead of 3 at the moment) and better characteristics. This enable to increase the reliability and accuracy of the system as a whole. GLONASS operates between 1602.5 and 1615 MHz.

Like GPS, GLONASS also needs a differential system to get better results. The research started way back in the seventies at about the same time that GLONASS itself was developped. However, due to various reasons an implementation of differential GLONASS (DG) in Russia was delayed. So far only one DG station has been reported and that one is in the Ukraine, not in Russia. A lack of the Selective Availability mode in GLONASS played a not unimportant role in the process. The standard accuracy of GLONASS on the few ten meters level met the requirements of common users in Russia. During the past couple of years however, the interest for DG has increased rapidly. Therefore, the development of differential stations for various applications has been speeded up. At present, there are the plans for the creation of local-area differential systems (LADS) and regional-area differential systems (RADS) for air traffic control and vessels. A third system WADS (wide-area differential system) should cover the whole of Russia.

Try these.....

Here is a short list of stations. It is only the top of an enormous iceberg. I also included a few longwave stations. Both MSK and QPSK stations are included.

Freq.	Location	Baud	
123.7	Mainflingen, Germany	300	
140.3	Mainflingen, Germany	300	
162.5	Ras Caxine, Algeria	100	
285.0	Porkkala, Finland	100	
285.0	Upolo Point, Hawaii	100	
287.5	Hoek van Holland, Neth.	100	
288.0	Cape Race, Canada	100	(Atlantic coast)
289.0	Cabo Finisterre, Spain	100	
289.0	Cape Henry, USA	100	(Atlantic coast)
289.5	Butt of Lewis, UK	100	*)
292.5	Kapp Martin, Svallbard	50	

292.5	Reykjanes, Iceland	100	
293.0	New Orleans, USA	200	(Gulf coast)
293.0	Montauk Point, USA	100	(Atlantic coast)
296.0	Galveston, USA	100	(Gulf coast)
296.5	Blavandshuk, Denmark	100	
300.0	Utvaer, Norway	100	
300.0	Kokole Point, Hawaii	200	
300.5	Mizen Head, Ireland	100	
300.5	Pt da Sao Marcos, Brazil	300	
305.0	Alexandria, USA	100	(Atlantic coast)
306.5	Skagsudde, Sweden	100	
307.0	Ristna, Estonia	100	
308.0	Triple Islands, Canada	100	(Pacific coast)
310.5	North Foreland, UK	100	*)
311.0	Partridge Island, Canada	100	(Atlantic coast)
314.0	Cape Schanck, Australia	100	
314.0	Lauzon, Canada	100	(Atlantic coast)
323.0	St Davids Head, Bermudas	100	
323.0	Robinson Point, USA	200	(Pacific coast)
1655.0	Pt de la Coubre, France	50	
1719.6	Venezia, Italy	100	
1801.0	Amsterdam, Netherlands	100	
1804.8	Isle of Wight, UK	250	
1806.5	Kiel, Germany	250	
1851.0	London, UK	300	
1894.0	N-Scotland, UK	100	
1942.0	Copenhagen, Denmark	100	
1975.0	Aberdeen, UK	300	
1997.0	Copenhagen, Denmark	100	
2021.0	Mid-east coast, UK	300	
2128.0	Cabo Finistere, Spain	300	
2163.7	Portsmouth, UK	250	
2165.9	Lands-End, UK	250	
2657.1	Tripoli, Lybia	300	
2805.0	N.O.Polder, Netherlands	250	
2834.0	N.E. England	250	
2885.0	Krasnodar, Ukraine	250	
3226.0	Denmark	250	
3328.8	Pt de la Coubre, France	50	

*) the British stations provide this service for a subscription fee, whereas most countries provide this service for free. The British DGPS data is coded.

...and what is left

o BATHYMETRIC NAVIGATION is the art of establishing a geographic position on the open sea by use of geological features of the ocean floor. The transmissions can most probably not be heard on land, therefore only a short note about this system.
The ocean bottom features are like mountains and canyons on dry-land. By measuring the depth of the sea and thus visualising the seamounts, trenches, etc. you can plot an echo sounder trace. There are bathymetric charts available for many seas and there are special coastal charts. By comparing the trace and the bathymetric chart you can discover your position. All you need is an echo sounder (also 'fathometer'). The echo sounder consist of two basic components, the transducer and the recorder. The transducer is located at the keel and transmits the signals into the sea and picks up the returning echoes. The recorder records the echoes for chart plotting purposes. The US Navy uses the AN/UQN4 sounder, which is transmitting on 12 kHz. CW electromagnetic signals are translated in pulses by the transducer. Pulse duration and repetition cycle are variable.

o MARS-75 is the Russian answer to DECCA. This Soviet made system is also a hyperbolic LF system, but more advanced. MARS-75 was first used in the early seventies and is still in use. The former Baltic chain was closed down after the fall of the USSR. The transmitters in Wismar (E.Germany) and Tallinn were dismantled. There are still chains along the western and

northern coasts of Russian like the Gulf of Finland and the Barentsz Sea. MARS-75 operates in the 64-92 kHz range. The transmitters are arranged in groups of three or four. Spread-spectrum signals are used and there are nine clusters. At the moment some 47 transmitters are still running. A modernised version, LENA, will probably never come in operation because satellite systems are taking over most of the terrestrial systems at the moment.

o RANA. Another system, somewhat similar to MARS-75, is the French RANA system which operates along the French coast in the frequency range 285-415 kHz. It is a complicated, time-sharing system.

o DECCA look-alikes. The following systems are most probably no longer in use: DEL NORTE TRANSPONDER, MINI-RANGER, AUTOTAPE DM-40A, RALOG-20, ARTEMIS III DART. They were all based on the DECCA system and operated on LF.

o RAYDIST. This is also a 2 MHz system similar to Hyperfix. The latest version of this system was the 'DRS-H /T' who needed four landstations. There are no current European users but there may be some chains in the USA.

o TORAN P100. Another 2 MHz system is TORAN, a French made system somewhat similar to differential Omega. It is hardly used anymore.

o ARGO. The U.S. DM-54 ARGO (Automatic Ranging Grid Overlay) system was originally designed for the positioning of underwater pipelines. This is also a 2 MHz system and was last heard in the USA in 1993. It is possible that there still is a chain for the Mexican Gulf.

o PULSE/8. This one is based on LORAN-C and works very similar. It also operates on 100 kHz and seems to be more accurate, especially at night. There is a slight difference in the impulse codes which makes that the system is not compatible with LORAN-C. PULSE/8 is reportedly still in use, but I have no idea where....

o VHF/UHF systems. Both SYLEDIS and MAXITRAN operate between 420 and 450 MHz and need two landstations. Maxitran's predecessor SHORAN is still in use and operates between 220 and 300 MHz. RSBN, a Russian satellite system, is slipping away after the introduction of GLONASS. Frequency range: 873.6-935.2 MHz and 939.6-1000.5 MHz. The aero navigation systems TACAN (960-1215 MHz) and VOR-DME (108-118 and 960-1213.5 MHz) are widely used. NNSS (Navy Navigation Satellite System) operates in the range 399-988 MHz and is rumoured to be phased out in 1996.

o MILITARY STUFF. Although primary designed for COMINT purposes and to DF enemy positions, these systems can also be used for determining your own position.
* WJ8958 is an US naval DF system which covers the 1 MHz-2 GHz bands.
* AN/SLQ-30, AN/SLQ-32 and AN/SLQ-72 are also US naval systems with HF DF capabilities.
* AN/TRQ-32 Teammate, a Comint/DF system which covers the HF/VHF/UHF frequency bands. Teammate is mounted on a US Army truck and has a telescoping antenna mast. When several units are used, one can act as the master and the others as slaves, which makes it a perfect DF system.
* AN/TSQ-112 TACELIS is the system that will replace the Teammate. TACELIS is an acronym for Tactical Automated Communications Emitter Location and Indentification System. It is a Comint/DF system that covers the range 500 kHz-500 MHz. The system is also mobile and works about the same as the Teammate.
* AN/TSQ-114 Trailblazer, ground mobile Comint/DF system that operates in the 500 kHz-150 MHz frequency range an accomplishes DF between 20 and 80 MHz. A Trailblazer system consists of two master stations and three remote slave stations. Each of them is mounted on a M113 vehicle and has telescoping antenna masts.
* Guardtrail is an airborne Comint/DF system that has DF capabilities in the ranges 20-70 MHz and 100-150 MHz. The system needs several

aircraft, operating in pairs, to obtain the DF info which is relayed to a processing station.

* AN/ALQ-151 Quick Fix II is also an airborne system with DF and early warning capabilities. It covers the 2-76 MHz bands and is mainly used in helicopters. It's twin brother, the AN/TLQ-17, is used for intercepting communications and has also a jamming device called Traffic Jam.

Credits

Special thanks to WUNners Day Watson, Klaus Betke, Mike Chace, Dave Gentile, Stan Scalsky.

Sources: US Coast Guard, Institut fuer Angewandte Geodaesie, Deutsche Telekom AG, Admirality List of Radio Stations vol.2, ITU, Philips Navigation A/S, Inmarsat, Vaino Lehtoranta, Dutton's Maritime Navigation, Doug Brooke, prof. B.Forsell, Central Research Institute of the Russian Space Forces, Jane's Radar and Electronic Warfare Systems.

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Hello and welcome to the first of hopefully many WORLD BANDSCAN columns. As Some background. I first proposed the idea for this column to Rick because I felt that both newer and more seasoned listeners would feel that this is a column that they could contribute to. I propose to take a small space of the radio spectrum each time and gather all information that can be gathered on what has, can and will be logged in this space. As the utility world is ever-changing, obviously some of these listings will be obsolete. However, no one can know exactly what is going on with allocations ALL of the time so the next best thing (in my mind, anyway) is to list EVERYTHING that has been reported. While this will bring SOME obsolete information forward, it will also enable those who DO know if a station is gone to report that fact.

I've compiled this information from many sources, including CFL, the Shortwave Frequency Directory, MT, Speedx, the Worldwide Ute News, but the best information comes from YOUR LOGGINGS. What is actually being heard is the surest bet of what is on (obviously) so without your contributions this column will be no better than a list. With your contributions it becomes a LIVING, BREATHING ANIMAL!!! (OK, so it's still a list).

The first segment I'm going to deal with is 7500-7599 Khz. A fascinating hodge-podge of everything that's on in the Ute World. I would like to thank Alex Wellner, Piet Conradie, Bert van Rij and Rick Baker for their first submissions. As original members of the WORLD BANDSCAN team, they will receive a free issue of WORLD BANDSCAN when it comes out each month :-) Next month: 7600-7699 so get 'em ready now!

FREQUENCY	MODE	CALL	STATION/AGENCY	INFORMATION	LAST HEARD
7500.0	SSB		US NAVY	MARS	
	SSB		US MARINE CORPS	Camp Pendleton	Aug93
	SSB		US NAVY	Tracking Operations	Nov95
	SSB	V5N33	WALVIS BAY RADIO	Namibia phone patches	Dec95
	RTTY		UNID	RYRYRY/scrambled...Bd 75	Dec95
7501.0	SSB	VJI	MT.ISA, AUSTRALIA	School of the Air	
7501.5	SSB		UNID	CARSEAT 2/3/4/5 w/refuelling	Dec92
7503.0	SSB		US NAVY		Dec95
7506.0	CW	OVG	DENMARK MARINE		
7507.0	SSB		US NAVY	Hurricane Warning Net-Ch.P	Dec95
	SSB		FAA	Hurricane Operations	
	SSB		US COAST GUARD		
7508.0	FAX	ZRO2	PRETORIA,S.AFRICA	120/576	Jun95
7510.0	ISB		AUSTRALIAN NAVY	Voice Frequency Telegraphy	

	RTTY	HZN	JEDDAH,S.ARABIA	760/100	Aug95
7510.5	SSB		IRAQ	Aviation Operations	
7511.0	SSB		US COAST GUARD	LORAN (N.Atlantic/NorwegianSea) (Sylt/Ejde/Keflavik/Sandur/ Jan Mayen/Bo-i-Vesteraalen)	
7511.5	SSB		PORTUGAL NAVY		
7512.0	RTTY	ZRO2	PRETORIA,S.AFRICA	425/75	Aug95
7513.0	CW	FDY	ORLEANS AIR	French Air Force	Dec95
7517.0	SSB		AUSTRALIA	Royal Flying Doctor Service	
7521.5	RTTY	BAZ67	BEIJING, CHINA	50bd	Nov93
	RTTY	FDY	ORLEANS AIR	French Air Force	Sep95
7522.0	SSB		AUSTRALIA	Commercial Truckers	
7524.0	SSB		STOCKHOLM RADIO	LDOC	Dec95
	SSB		SOUTH AFRICA	Transport Net	
	RTTY	TYE	CONTONOU, BENIN	ASECNA...ARQ-M2(96/425)	Mar94
7525.0	SSB		NASA	Launch Preparation	Aug89
	SSB		US COAST GUARD	LORAN	
	SSB		US NAVY	Pacific Sub Command	
	SSB		US AIR FORCE	Search & Rescue	
7525.5	SSB		US ARMY	Latin America Net	
7526.0	SSB		US ARMY		
7527.0	SSB		GABON	LDOC-Libreville	
	SSB		US DEPT OF DEFENSE	Joint Task Force-Ch.ZB	Aug89
	SSB		US AIR FORCE	MARS	
	SSB		US COAST GUARD	Enforcement	
	SSB		US AIR FORCE	Search & Rescue (Eglin AFB)	
	SSB		US CUSTOMS	Ch.1	Aug89
	RTTY		SPANISH CIVIL GUARD	SITOR	
7528.0	RTTY		US COAST GUARD	75bd	Aug94
7528.6	SSB		US COAST GUARD	Emergency Command Net	
7530.0	SSB		ARGENTINA	Antarctic Base	
	SSB		UNID	BASE CAMP 1 wkg BASE CAMP 6 re missionary work	Jun93
	SSB		SHARES NET		
	FAX	NMF	US COAST GUARD	Boston,MA...120/576	Jan95
	FAX	RQM76	KHABAROVSK,RUSSIA	90/576	
	RTTY		TURKISH EMBASSY	Bucharest...FEC-A-144	
7532.0	RTTY		INTERPOL	ARQ & Twinplex	
7533.0	SSB		SOUTH AFRICA	Kruger Park Game Wardens	
	SSB		AUSTRALIA	Govt.Svcs (inc.Water Resources)	
7533.6	SSB		FEMA		
	SSB		US NAVY	MARS	
7535.0	SSB		US NAVY	Norfolk SESEF	Jan96
	SSB		US NAVY	Fleet HICOM...Caribbean	
	SSB		SHARES NET		
	SSB		ARGENTINA	Antarctic Base	
	FAX	AIX33	DARWIN,AUSTRALIA	120/576	Dec95
7535.5	DIGITAL		U.S. NAVY	MARS/NNN0NAV	Jan93
	SSB		U.S. MILITARY	9X, 1G w/Parkhill scrambling	May94
7536.0	SSB		US MARINE CORPS		
7536.5	SSB		US NAVY	Little Creek,VA...'HOPPER'	Jan96
7538.0	RTTY	DZR	UNID	Numbers station...100bd	Mar95
7538.6	SSB		NEW ZEALAND	Antarctic Base	
	SSB	JRO	MOSSAD	Israel	Nov95
7540.0	SSB		MOSCOW,RUSSIA	Telcom	
	SSB		US AIR FORCE	MARS	
	SSB		SHARES NET		
	SSB		UNID	WEAK EYES wkg CANDLEWICK adv 'We're taking hits when we extend to TUCK CONTROL'	Oct94
	SSB		UNITED STATES	Antarctic Base	
	SSB		BRAZIL	Post offices	
	SSB		BOSNIA	UNPROFOR	
	RTTY	ROK28	MOSCOW,RUSSIA		
	RTTY	ZKL48	NEW ZEALAND NAVY	Christchurch	
7541.0	SSB		ETHIOPIA	Ethiopian Airlines LDOC	
	RTTY	URO	UNID	Numbers station	Dec92
7541.3	RTTY	CCM	CHILE NAVY	Punta Arenas	

7542.0	SSB		REUNION ISLAND	VOLMET	
7542.7	RTTY		UNID	ARQ/E3 at 192/400	Dec95
7543.5	SSB		UNID	Net in PP prob.in Angola or Mozambique...roll call	Dec95
7544.0	CW	UID80	UNID	Russian	
7545.0	SSB		US AIR FORCE	MARS	
	SSB		KENYA	Net re landcruisers/pickups	Oct95
	SSB		SOUTH AFRICA	Commercial Trucking net in Luderitz/Walvis Bay	Oct95
	SSB		UNID	American op w/position rpt from South Africa	Dec95
	SSB		UNID	Russian woman saying 'Sarghina, Sarghina, eskay-morsk?'	Aug94
7546.0	SSB		CANADA	Communications Canada Telcom	
	CW	VDE	UNID		
7546.1	RTTY		GERMANY MFA	RS-ARQ 240b/800	Dec95
7547.0	ISB		MSS BELIZE	Piccolo	
7547.5	SSB		UNID	COMCEN wkg unid talking about repairman doing test on power	Nov93
7547.8	SSB		UNID	V6 wkg VS	
7548.5	CW		UNID	V9P wkg other trigraph stns	Jan94
7549.1	SSB		BELL TELEPHONE	NSEP Net - Ch.44	
7550.0	SSB		AUSTRALIA	Kalgoorlie-Royal Flying Doctor	
	SSB		CANADA	Telcom	
	SSB		UNID	BULLDOG clg WARRIOR OPS	Jul93
7552.0	SSB		MADAGASCAR	Aviation Operations	
	RTTY/CW	5ST	MADAGASCAR	Antananarivo	
7552.1	SSB		BELL TELEPHONE	NSEP Net - Ch.45	Nov95
	SSB		SHARES NET		
7553.0	SSB		US NAVY	MARS	
7555.0	SSB		CANADA	Telcom	
	RTTY/CW		FRENCH NAVY	La Regine/Toulon	Feb92
7556.0	SSB		SENEGAL	Telcom	
	SSB		BOSNIA	UNHCR	
	RTTY		ANKARA,TURKEY	Diplomatic...FEC-A	
7558.6	RTTY	YAQ	UNID	5-ltr grps to YAO in ASCII	Jun94
7561.0	RTTY		WARSAW RADIO	Poland...SITOR	
7565.0	SSB		AUSTRALIA	Broken Hill School of the Air	
	SSB		BERNA RADIO	LDOC	
	RTTY	YIX75	BAGHDAD,IRAQ	425/50	
	CW	FIT75	PARIS,FRANCE	Prefecture	
7567.0	SSB		US AIR FORCE	Lajes AFB discrete	
	ISB	PBB	NETHERLANDS	Voice Frequency Telegraphy	
7567.5	ISB	DCN	FALKLAND ISLANDS	Piccolo	
	ISB	DCN	KENYA	Piccolo	
7568.0	SSB		UNID	SIDEWINDER wkg RATTLER w/ high-speed transmissions	
7570.0	SSB		US AIR FORCE	Croughton AFB discrete	
	FAX	RBX72	TASHKENT,KAZAKHSTAN	60/90/120/576 & 120/288	Jun94
7572.0	CW	UHF4	YEYSK-STARO,RUSSIA	Meteo	
7574.0	CW	FDE	VILLACOUBLAY AIR	French Air Force	
	CW	RCV	BLIAVA NAVAL RADIO	Russia	
7575.0	FAX	RSR79	MINSK,BELARUS	90/576	
7576.0	CW	FVA80	ROSNY-SOUS-BOIS	French Police HQ	
7577.0	SSB		US COAST GUARD		Nov92
	CW	RIW	KHIVA,UZBEKISTAN	Russia Navy	
7580.0	SSB		US COAST GUARD	LORAN...Northwest Pacific	
	SSB		NUMBERS	SS Numbers 5-figure groups	Dec95
	ISB	DCN	CYPRUS	Voice Frequency Telegraphy	
	FAX	NKW	DIEGO GARCIA	120/576	Oct95
	FAX	NPN	GUAM		
	RTTY	VVD57	NEW DELHI,INDIA	200/50 & 425/50	Nov95
7582.0	SSB		US DEP OF TRANSPORT	Emergency Radio System-Ch.F4	
	SSB		US CUSTOMS		
	RTTY		US COAST GUARD	Pacific Area...170/	
7583.5	SSB		US FEDERAL HIGHWAYS		
7585.0	SSB		UNID	KGX23(base) wkg 'MOBILE' w/ comms while driving thru tunnels	

				in Minneapolis.	Aug93
7585.7	RTTY	SNN299	WARSAW,POLAND	POL-ARQ	Dec95
7586.0	SSB		UNID	Spanish comms	
	SSB		UNID	E.European comms	
	RTTY	RFVITT	MAYOTTE	French Navy...ARQ-E 96	Feb95
7586.5	SSB		UNID	GENESIS wkg LOGJAM/ROADWAY	Nov94
7588.6	SSB		UNID	BOOTLEG 66 wkg TITLEHOLDER re unable to establish comms on LSFSC or Naval Gunfire freqs	Dec94
7589.0	SSB		INDONESIA	Aviation Operations	
7590.0	SSB		US ARMY	MARS	
7592.1	RTTY	YZQ6	BELGRADE	400/50	Apr95
7594.0	SSB		AUSTRALIA	Commercial Ops...N.Queensland trawlers	
7595.0	SSB		US NAVY	Reserves (Texas/Oklahoma)	Oct92
	SSB		US NAVY	Air Operations	
	SSB		RDARA-AFRICA	Seychelles/Djibouti/Asmara/ Addis Ababa/Kisimayu/Sana'a/ Mogadishu	Dec95
	ISB	MKK	LONDON	Piccolo	
	RTTY	FDX	PARIS AIR	French Air Force...ARQ-E-48	
7595.7	RTTY		UNID	Coded signoff...Baudot 50	Dec95
7595.8	RTTY		UNID	Coded messages...Baudot 50	Dec95
7596.0	SSB		AUSTRALIA	Commercial traffic	
	ISB	IEA	ROME,ITALY		
	ISB	AJE	US AIR FORCE	Croughton AFB (FAX 120/576) (RTTY 850/75)	
	RTTY	5UA46	NIAMEY,NIGER	ASECNA...ARQ-M2	Aug94
7597.0	RTTY		GERMANY MIN.OF INT.	Bonn/Munich...ARQ-E-72/96	
	RTTY		US NAVY		
7597.5	SSB		ITALY	Army	
7598.0	RTTY	DER	BONN,GERMANY	ARQ-E	

That's it for this month...send me your 7600 series loggings.

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The WUN Logs Column

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A great turn out for WUN's birthday! I mentioned in the opening remarks that the entire first newsletter was 147k. Just the digital logs alone this month are 106k! Whew! I thought it would be interesting to see the 'original' charter contributors to this column. There was a grand total of 17 from 5 countries:

Charter Issue Contributors:
(AB) Ary Boender, The Netherlands
(CM) Craig MacKinnon, Halifax, Nova Scotia, Canada
(DM) Don Moore, Iowa, US
(DM2) David Moisan, N1KGH, Salem. Ma (US)
(ED) Ed Deasy, Charrlottville, Va (US)
(FW) Frazer Wright, UK
(JC) John Cope, Austin, Tx (US)
(JN) Jim Navary, Colonial Heights, Va (US)
(JP) Jim Pogue, Memphis, Tn (US)
(MS) Michiel Schaay, The Netherlands
(PP) Phil Potts, Fl, (US)
(RB) Rick "RD" Baker, Austintown, Ohio (US)
(MR) Marius Rensen, Hannover, Germany
(SS) Stan Scalsky, Leonardtown, Md (US
(TO) Tony Orr, Reston, Va, (US)
(TR) Tom Roach, San Jose, Ca (US)

This month we have 75 contributors from 14 countries, including our first logs from Japan and Brazil. Other countries this month include the Netherlands, United States, Ireland, Canada, Luxembourg, Germany, Spain, South Africa, Australia, England, New Zealand, and Sweden (in no order other

than I spotted them!).

Alex Wellner has a 'find' for an unid in the December newsletter. He notes that the 12342 log of c/s SURN belongs to "6 OCTOBER" from Egypt. Alex also noted that in the November 1995 newsletter on 16534, there was an unid log of "Ramadan". In checking the ITU server, he found only two, 6BDE from Egypt and IY8632 from Italy. After reading his note and re-reading the log, I think this should be M/S Ryndam, C6MM2, a cruiseship. These cruiseships often turn up on ship simplex frequencies to do ship-to-ship phone patches. I recently logged M/S Ryndam and at first I thought he said..."Ramadam"! Thanks Alex!

Also, I messed up and left off contributor "MR2", none other than Michael Rivkin (7914@mne.net) up in Pamona, NY. His logs were included, and he was listed as (MR2), but I left him off the list at the end. Sorry about that Mike.

As a side note, I try to keep the contributors initials the same always. I keep a master list and when a new contributor comes along, we have a new ID. This has stayed fairly consistent from issue#1. So if I mess up again (when I mess up again -hi!) you can always go back and check past issues for an ID if need be.

Also I left poor Stan Scalsky's logs on a transfer disk. I have them this month. I was very glad to see last month end!

HELP! I've noticed that a good number of you who post over the WUN listserver hand-type your logs. It would be a BIG (BiG!) timesaver if you would use WUN format, including your initials at the end. This is the single largest time consuming part of doing this column. Some month long lists take perhaps 5 hours to convert. I started to run out of time this month and almost had to leave some logs off. Please help save some work and just type out your logs in WUN format. Thanks, that will give me time to type all the logs that are going to be sent by our 30 some paper subscribers!

I am also looking for one and maybe two others to assist in editing this column. With increased time helping with the listserver duties, editing the entire newsletter, my other column, and other WUN duties, I spent way too much time away from my family, my dog and my radios last month. If you have some time to donate to the WUN cause, drop me a line.

=CIVIL AERO=

2872 BAW 179 2205 USB wkg Gander, London LHR - New York JFK 5540 5450 to 122.37. ESA 742 2130 USB wkg Gander, 390 5240 5150. RKA 9935 2205 USB wkg Shanwick 50n20w 52n30w. BAW 296 0755 USB wkg Shanwick, BDGL, 747 G-BDXK Chicago - London LHR 5130 370 5320 5315. KLM 626 0750 USB wkg Shanwick, AGDP, MD1 PH-KCG Req 410. SVA 900 0715 USB wkg Shanwick, DKAB, 74M N481EV New York JFK - Brussel 4930 330 5120 5115 eta Brussel/1000. VIR 010 0755 USB wkg Shanwick, EJPS, 340 G-VFLY New York JFK - London LHR, 5030 390 5320 5315. (HW) Speedbird 182 0258 USB EL-BQ wkg Gander/QSY to 5649 for selcal check. BWIA 604 1000 USB FG-AD wkg NY/ARP GABES F390. (TO)

2887 TWA 21 0333 USB w/NY A "KRAFT" (23-30N/67-43W) "EF-AJ" 747-100 N93107. Air Canada 092 0322 USB w/NY @ "BACUS" (34-26N/73-51W) "FQ-CK", A320-200 C-FTJO. Elite 313 0217 USB w/NY @ "BACUS" "BQ-FK" 757-200 C-FOOG [Canada 3000]. (JSM)

2899 UPS 6572 2140 USB wkg Shanwick, East Midlands 350 5420 5430. AAL 48 0720 USB wkg Gander, Dallas - Paris ORY, 5030 350 5220 5215. AIR CLUB 900 0720 USB wkg Gander, 4940 330 5130 5320 to 370. CKS 349 0735 USB wkg Shanwick, 5620 350 5630 5640. DLH 437 0725 USB wkg Shanwick, LMDR 340 D-AIBE Dallas - Frankfurt 5030 370 5220 5215. GXR 1 0730 USB wkg Shanwick, FL330. NWA 32 0730 USB wkg Shanwick, CJAB Detroit - London LHR, 5030 5220 5215 330. TWA 981 0730 USB wkg Gander, New York - St.Anthony to New York JFK. UAL 2 0730 USB wkg Shanwick, CERS 767 N659UA In the afternoon (1520) heard trying to contact Bombay on 5658. Switched to 3467. (HW) IFB 03: 20 Dec.95 0055 USB wkg Shanwick re-estimating 54n20w 0053. SAM 27000 06 Dec.95 1947 USB wkg Shanwick 55n20w 1944 FL310. 56n30w 2028 55n40w next. (RC)

2932 UPS 6993 1504 USB w/Tokyo @ "POTTS" "AJ-GL" 747-SP N688UP. (JSM)

2962 Springbok 201 1015 USB wkg NY/ARP 36N60W F390 .85. (TO)

3016 ASCOT 3221 0712 USB wkg Shanwick 4515/0711 350 LASNO GAPLI to 135.6. AAL 148 0715 USB wkg Shanwick, Miami - Frankfurt, unable higher level. BAW 1252 0715 USB wkg Santa Maria, 350. BAW 292 0715 USB wkg

Shanwick, Miami - London LHR, 4720 370 AMOKO GONZO to 135.6. KLM 772 0745 USB wkg Santa, Caracas - Amsterdam FL350 req. rerouting 4708 UN472 UR1 GUR UR12 REDFA. TWA 720 0715 USB wkg Shanwick, AEGK St Louis - London LGW 4930 390 5120 to London LGW. (HW) Aeroflot 328 0328 USB wkg NY 0338 330 posn -MONARCH? in contact with ?-Center. Shanwick 0348 USB wkg unid a/c w/selcal ck EK-HM. Gander 0349 USB wkg unid Swissair flt w/posn, selcal ck AF-JQ, MD.11. w/reg HB-IWB. Speedbird 224 0350 USB wkg Gander, 52N/40W 0347 330, est 54N/30W 0431, 56N/20W next. Air France(?) 7280 0359 USB wkg Shanwick, 51N/30W 0359 350. Northwest 42 0403 USB wkg Gander, selcal ck AL-JM, DC10-40 w/reg N160US. Shanwick 0406 USB wkg Congo 215 w/posn for relay Gander. Gander 0454 USB wkg Delta 14 w/selcal ck JM-EF. (RB) AOM 409 0213 USB BL-EG wkg SM/ARP 40W to much QRM for details. PAC 6216 0136 USB GK-DF wkg Shanwick/Selcal check. (TO)

3455 ALW 301 0634 USB wkg NY/ARP ELTIN F350 .80. Cubana 9716 0526 USB wkg NY/ARP BRUNZ F290 QSY Moncton CTR 133.95 (TO)

4645 Unid: 1651 USB bad mod. unid broken-EE YL rptg airport wx. "This is information... Runway in use... 7, transitionlevel 40... Vertical visibility 50 meters. Visibility 150 meters... Fog." [Tallin Volmet, EST -RD]

4666 Air Mike 820C 1150 USB wkg HNL/ARP 31N170E F370. Northwest 80 1203 USB wkg HNL/ARP 31N170E F390. Japan Air 58Z 1218 USB CD-GL wkg HNL/Selcal check, Japan Asia flt?. Japan Air 56Z 1229 USB wkg HNL/ARP no details due static. Philippnes 1051242 USB BR-DJ wkg HNL/Selcal ck. Japan Air 58Z 1242 USB CD-GL wkg HNL/ARP 31N170E F370. (TO)

4675 SA-NTA 25 Dec.95 0015 USB wkg Bodo, 70n 10w 0010 FL110 req descent. (RC) Speedbird 286 0859 USB wkg Montreal/ARP 62N--W F330 req oceanic. (TO)

5520 N160GC 0609 USB wkg NY/ARP GABES F390 (TO)

5526 American 909: 0835 (MD.11) wkg unid aero sta giving a/c reg of N1756. Porto Velho: (SAM-SE MWARA) 0836 USB (SAM-SE MWARA) wkg REACH 40613 w/posn. (RB)

5530 AVIATECA 022 1308 USB Called Flores & got local wx there. Pilot said still on the ground at Aurora (Guatemala City). First time I've hrd an a/c on this frequency. (DHM)

5532 CSA Op's: 25 Dec.95 0050 USB wkg OK-WAB, wx info for Bourgas, Larnaca, Budapest, Bratislava & Riga. Report read in CSA language but words scattered, overcast, broken etc in EE! OK-WAB CSA Airbus A.310. (RC) PH-KCH 0209 USB wkg KLM AMS LDOC/pp to maintenance (TO)

5541 Delta 118 0613 USB wkg Stockholm/ARP 49N15W and comp msg. World 201 0234 USB DG-JL wkg Stockholm LDOC/dep msg departed ETAR 214 5/55 ETA JFK 0510. VARIG 864 0556 USB Rio LDOC att QSY w/this flt no joy. (TO)

5547 San Francisco USB 0920 San Francisco wkg American 102, posrep,selcal (AW) NORTHWEST-922 1248 USB w/San Fransisco radio, to Seatle center 135.15. KOREAN AIR-15 1258 USB w/San Fransisco radio, over to Anchorage radio. DYNASTY-004 1300 USB w/San Fransisco radio, then to 6640 for pp w/DYNASTY opp's in Anchorage, a/c was unreadable so back to 5547 then to 2869, (no Joy). (SB) EVA 17 1100 USB wkg SFO/ARP 43N150W F310 (TO)

5550 AAL 660 2310 USB wkg New York FL390 FLANN squawk 2751 to 132.15. BWA 426 2305 USB wkg New York FGCE D9S 9Y-THX Barbados - New York JFK, FL310 to New York JFK. CFG 051 2320 USB wkg New York CMRS 767 D-ABUH 370 35n60w 37n50w. DAL 210 2215 USB wkg New York HQCD 767 N133DN, SLATN. LTU 901 2240 USB wkg New York JESSE to FL330. (HW) New York: 0829 USB (CAR-B MWARA) wkg KLM 774 w/posn, QSY to 5598. (RB) American 148 0320 USB AP-HQ wkg NY/ARP 36N60W QSY 5598 for selcal. American 2683 0504 BG-AC NY/Selcal check. Transbrasil 770 0512 USB wkg NY/est GRANN 0555 and now level F370. United 993 0524 USB JP-DF wkg NY/on the ground at MIA for Selcal check. Lufthansa 1921 0053 USB wkg NY/remain at F280 until CLXTN, then climb & maintain F310 rpt reaching. (TO)

5574 NORTHWEST-8: 1228 USB w/San Fransisco radio, 150west report, then to 5547, CFAJ? (SB) United 44 1032 USB AC-DL wkg SFO/Selcal check & req F340. Delta 1645 1115 USB AB-EJ wkg SFO/Selcal check & req F360. AOM 901 0848 USB wkg SFO/ARP F290 LAX-Papeete DC10-30 (TO)

5598 ASCOT 4072 (Hercules C.3, XV182) 1926 USB wkg Shanwick, 57n 10w 1953 selcal AHJM, -> 2872/5649. (BH) REACH 50275 2030 USB wkg Santa Maria, Nothing heard. AMM 502 2035 USB wkg Santa, nothing heard. BAL 304A

2035 USB wkg Santa, to 128.9 Lisboa ctrl. BAW GBOAG 2040 USB wkg Santa, Cross LASNO NOT above FL500 due to eastbound Air France Concorde traffic. OTIS 61 2225 USB wkg New York 37.55n55w/2244 FL230 to FL250 38.50n/2324 38.35n45w/next. REACH 30229 2200 USB wkg New York, BDHJ, D8S, N772CA reroute clrc. to QPR. Destination EDAF. Relay msgs to Rich International, New York. AFL 358 2200 USB wkg New York Havana - Shannon, FL 350 to 6586 (primary). AFR 551 0930 USB wkg Shanwick, Fort de - Paris CDG, 15w 390 4808 JSY. CUB 471 2225 USB wkg New York BEDK, Madrid - Gander, FL350 BRUNZ. DAL 76 2300 USB wkg New York, New York JFK - Munich, selcalled by New York. Nothing heard. DLH 463 2250 USB wkg New York, FMEL, 747 D-ABYP Miami - Frankfurt, FL330 to HENCH. EIA 953 2225 USB wkg New York, DKAB, 74M N481EV, 3840 290 3830 3920 to Rome. KLM 732 0928 USB wkg Shanwick, DKAJ, 74D PH-BUL Curacao - Amsterdam, 45n2218w 350 4620 AMOKO. KLM 787 2200 USB wkg New York, Amsterdam - St.Maarten, 2260 370 PJM to 125.0 San Juan. UAL 916 2225 USB wkg New York, Washington - Frankfurt, no contact. UAL 950 2250 USB wkg New York, Washington - Brussel, selcalled by New York. Nothing heard. REACH 11E2 0800 USB wkg Shanwick, to 3016. LASNO/0754 FL310 45n1530w/0846 42n30w/next. REACH 5020 0810 USB wkg New York, 43n50w/8010 FL350 43n60w/0913 (vikal)/ next. AFL 320 0746 USB wkg Gander, to 3016 Gander. AFL 326 0755 USB wkg New York, Miami - Shannon, 3750 330 4240 4920 4915 GONSO. AFR 037 0815 USB wkg New York, 4808 UN484 DVL. AOM 624 0755 USB wkg Shanwick 4620 370 4808 QPR to 316. BAW 265 a 07 USB wkg Santa Maria, London LHR - Montego Bay, to 3016 Santa Maria. CFG 073 0900 USB wkg New York LMBR 767 D-ABUA 330 32n60w 3430. CUB 9700 0820 USB wkg New York, Frankfurt, 3450 330 3740 4130 to FL350. DLH 499 0750 USB wkg New York, Mexico City - Frankfurt, 3550 370 3840 4130. IBE 6400 0800 USB wkg New York, AEBJ, 74M EC-DLC Madrid, 3360 370 3450 3640 to Madrid. REACH 7R1 0827 USB wkg New York, 4340/0901 FL350 4430/0954 4520 mach .74. Destination Ramstein, Germany. AFL 356 0955 USB wkg New York Miami - Shannon, 5150 330 to 290. AFR 037 0825 USB wkg New York, 4450 370 4640 4830 to 2872 or 5649. CUB 470 0835 USB wkg New York, HJAF, Havana - Madrid, 3840 350 3930 3920. EIA 1951 0935 USB wkg New York 3960 330 4150 4040. KLM 744 0850 USB wkg New York, Caracas - Amsterdam 350. LDA 932 0840 USB wkg New York, CEAS, 767 OE-LAW 3460 FL350 3750 4040. LDA 943 1000 USB wkg New York, 4050 370 4440. AEL 715 0720 USB wkg New York, 3750 350 4140 4330. AEL 733 0810 USB wkg New York, HJAB, selcal check. BBC 010 0745 USB wkg New York, 4160 330 4350 4540. CUB 440 0800 USB wkg Shanwick, 4140 350 4330 4720. DLH 8165 0755 USB wkg New York, FL330. IBE 6663 0810 USB wkg New York, 3060 350 GRANN BANCS BANCS to 6577. TWR 30 0745 USB wkg New York FL310. (HW) SLUM 31 U.S.Mil (spelled) 1027 USB wkg Shanwick, dep Mildenhall 0950, arr Halifax 1735z. (JF) German AF 054 2356 USB wkg New York ARP 42N60W. Delta 12 EQ-BG 2357 USB wkg NY for Selcal Check. Alitalia 639 FK-EH 2358 USB wkg New York w/ARP. Air Europa 118 BP-HM 0004 USB wkg New York w/ARP at 41N60W. Reach 80090 0003 USB wkg New York w/ARP at 43N40W. Martinair 632 JM-DS 0005 USB wkg New York at 35N60W. Brittania 179B 0008 USB wkg New York w/ARP 35N60W. Fuzzy 99 0009 USB wkg New York at posn CUDAS. Condor 105 DF-LQ 0015 USB wkg New York for selcal check. Aeromexico 456 BC-QS 0016 USB wkg New York w/ARP 33N60W. Reach 1900 0018 USB wkg New York w/ARP 42N40W. German AF 133 0019 USB wkg New York at 43N60W. United 964 0020 USB wkg New York w/ARP at 42N60W. Continental 40 BH-KM 0021 USB wkg New York for selcal check. AMY 310 0026 USB wkg New York for an aRP at 39N40W. Ascot 3220 LM-BK 0031 USB wkg S Maria for an ARP at 45N14W. Titan 81 0037 USB wkg New York w/ARP 41N55W. Scooner 70 oo37 USB wkg New York w/ARP at 40N50W. Viasa 740 DG-AK 0039 USB wkg New York w/ARP at 18N60W. United 970 AG-HR 0041 USB wkg New York ARP 42N60W. LTU 431 AH-BF 0045 USB Selcal Check-New York. United 910 AG-HS 0045 USB wkg New York w/ARP at 41N60W. Air France 594 KM-BF 0047 USB wkg New York w/ARP at BANKS. Delta 108 FG-JK 0048 USB wkg New York for selcal check. Delta 148 CD-ES 0050 USB wkg New York w/ARP at SLATN. Alitalia 611 EK-HM 0051 USB wkg New York for selcal check. Iberia 6250 HL-BD 0057 USB wkg New York for selcal check. Delta 40 AK-DF 0102 USB wkg New York for selcal check. Speedbird 212 AG-HL 0103 USB wkg New York ARP 40N45W. Lufthansa 445 0117 USB wkgNew York w/ARP 43N50W. Air Canada 872 HP-EM 0126 USB wkg Gander for selcal check. Lufthansa 463

CG-FL, 0127 USB wkg New York w/ARP 40N40W. Iberia 6250 HL-BD 0210 USB wkg New York w/ARP 42N50W. (PI) New York: 0831 USB wkg KLM 774 w/selcal ck AG-RS, no joy, QSY to 3016. Air Portugal 317 0221 USB wkg New York w/posn, est 41N/50W 0313, selcal ck BM-AR. TWA 900 0223 USB wkg NY, 41N/60W 0223 370, est 41N/50W 0316. MartinAir 616 0224 USB w/NY 37N/50W 0225 350, est 44N/40W 0338. TWA 904 0225 USB wkg NY, 41N/60W 0225 390, est 41N/50W 0317, 42N/40W next. TWA 840 0232 USB wkg Gander, 47N/50W 0225 330, est 49N/40W 0312. Iberia 6250 0236 USB wkg NY for relay Santa Maria, 42N/50W 0238 330. United 970 0236 USB wkg NY, selcal ck AG-CS. American 62 0238 USB wkg NY, JAMES at 0230 330, FLAIRS 0257. United 902 0239 USB wkg Gander w/selcal ck KM-CP. TWA 880 0240 USB wkg NY, 41N/50W 0240 330, est 42N/40W at? Unid -463 0244 USB wkg Gander, 49N/40W 0244 350, est 51N/30W 0332. United 910\ 0243 USB wkg NY for relay Santa Maria 44N/40W 0243 330, est 42N/?W, selcal ck CF-AS, B767. Air Maroc (RAM) 205 0257 USB wkg NY, 41N/30W 0259 370, est 40N/50W, selcal ck FJ-GR. Continental 62 0305 USB wkg NY selcal ck BH-KM. Speedbird 232 0306 USB wkg Santa Maria, 42N/40W 0305 350, est 47N/30W 0408, selcal ck BE-CK. TWA 880 0313 USB wkg NY req 370. Delta 82 0314 USB wkg Gander, selcal ck EQ-AC or AS. West India 0315 USB 980 clg NY, not hearing NY ans. Air France 031 0315 USB wkg Gander, 44N/50W 0315 320, est 48N/40W 0410, 51N/30W next. TWA 840 0317 USB wkg Gander, 49N/40W 0213 330, est 51N/30W 0412. Speedbird 194 0318 USB wkg Gander, 51N/040W 0312 370, est 53N/030W 0416. TWA 900 0319 USB wkg NY, 41N/50W 0316 370, est 41N/40W 0410. TWA 904 0320 USB wkg NY, 41N/50W 0318 390, est 42N/40W 0411. United 2 0325 USB wkg Gander, req selcal ck, EQ-BH. (RB) Southern Air 0005 25 Dec.95 0154 USB wkg Gander, 45n40w 0152 FL330 48n30w 0244 Selcal CHFM. (RC) AMY 310 0253 USB wkg NY/ARP 41N45W F330. Turkish 582 0325 USB ER-CF wkg Shanwick/ARP at 30W F370. Air Europe 751 0624 USB AE-JR wkg NY/Selcal check EI-CIY 767-300ER. REACH 521VS 0516 USB wkg Shanwick/amended oceanic clearance. KLM 772 0534 USB AF-LS wkg NY/ARP F310 45N50W est 0614. El Al 1876 0538 USB BE-AG wkg Gander/ARP 55N50W F330. Swissair 121 0541 USB DE-GL wkg Shanwick/ARP 51N30W F370. American 68 0900 USB CL-KP wkg SM/ARP 42N40W F350. Navy 54587 0903 USB wkg SM/ARP 4220N14W F260 46N20W-4730N25W. N800CC 0908 USB wkg Shanwick/ARP BEGAS F410 LASNO 0937 GAPLI. KLM 744 0911 USB AG-DP wkg NY/ARP F330 est PIFAX 0936. Britannia 045A 0913 USB wkg Shanwick/ARP LASNO F370, req tie-up for this flight, please! :-). Britannia 051A 0923 USB DF-KM wkg Shanwick/ARP LASNO F370 .80. Blue 94 0926 USB wkg NY/ARP 41N40W F330 MIKE-Lajes next .80. REACH 4P7 0852 USB wkg NY/ARP 41N40W F350 MIKE-42N50W no relay to a company. Elite 501 0454 USB HS-MQ wkg NY/oceanic clearance to LPPD. HERC 91 0458 USB wkg NY/ARP 43N40W F250 41N40W-MIKE. Shamrock 112 0512 USB DG-JQ wkg Shanwick/ARP 50N30W F390. American 148 0516 USB JK-QR wkg NY/ARP 45N40W F350 0515. American 56 0518 USB AH-PQ wkg NY/ARP 45N40W F330 0516. New Zealand 18 0520 USB JQ-EM wkg Gander/ARP 48N50W F350 49N40W-50N30W. AIREVAC 60169 0532 USB wkg SM/ARP ALANO F280 43N20W-45N15W-47N08W. TWA 900 0605 USB DJ-CK wkg NY/ARP 44N40W. Speedbird 162 0610 USB DH-CJ wkg NY/ARP 36N60W F330. American 68 0503 USB CL-GP wkg SM/ARP 36N40W F370. Transat 940 0616 USB wkg Gander/ARP 50N40W F330. Saudia 020 0703 USB AF-GJ wkg NY/ARP 44N50W F290 .83. Air Europe 791 0705 USB JS-HP wkg NY/ARP 42N50W F350. KLM 744 0733 USB AG-DP wkg NY/Selcal check. Canarias Cargo 9111 0734 USB HK-AB wkg NY/ARP 43N60W F390 DC8-62F new reg. EC-963. REACH 45IG02 0605 USB wkg Shanwick/ARP 47N30W-47N20W-47N08W F350 (TO)

5616 REACH 00465 (C-5A) 1849 USB wkg Gander, QSY 8906 re climb fl350. (BH) ACA 870 (unid) USB wkg Shanwick w/selcal HMGR which is A340 C-FTNP. First time over the ocean anyone? (DH2) November 352AF 20/12/95 1522 ww Shanwick posn. American 895 20/12/95 1524 ww Shanwick posn. American 173 20/12/95 1525 ww Shanwick selcall ck BM-GK. (HS) AIREVAC 50258 1938 USB wkg Shanwick FL370, 5740/2022 370 5550/2111 OYSTR. N824CA 1938 USB wkg Gander FGMQ Req. FL430. To 2899. RIA 1924 2025 USB wkg Gander to VHF 122.375. UAL 975 2020 USB wkg Gander, FL370 SCROD. N492JT 2155 USB wkg Gander, FL370. REACH 40127 2200 USB wkg Gander, 58n50w/2200 FL410 61n40w/2249 63n30w/next. AAL 107 2115 USB wkg Gander, AJDQ MD1 N1761R 5430 5440 5350 350. WOA 1179 0930 USB wkg Shanwick CMBD. BH 30240 2250 USB wkg Shanwick At 20 west to 2899 Shanwick. DAL 71 1405 USB wkg Shanwick Copenhagen - New York

JFK, 5620 350 5730 5740. DAL 93 1405 USB wkg Shanwick Berlin TXL - New York JFK, 5320 310 5430 5440. GOLD 13 FLT 1240 USB wkg Shanwick Blocking FL240 - 270 59n20w/1241 59n10w/1320 QN9 to 249.27 Scottish\ Mil. IFB 49 1340 USB wkg Shanwick (Canadian Forces IFOR Bosna) GJBE 130 130335 Req FL240 or 260. Recleared to FL240. IFB 52 1235 USB wkg Shanwick, GJBF, 130 130331 57n20w/1412 FL240 57n30w/1515 58n40w/next to 8864. IFB 56 1225 USB wkg Shanwick To FL210 at 20 west. 52n20w FL210 52n15w DOLIP. IFB 98 1315 USB wkg Shanwick FHJL Selcal check. Very much out of the sequence with other IFB's!! Also unknown selcal. N75CS 1245 USB wkg Shanwick To 132.15 Shannon. REACH 60015 1345 USB wkg Shanwick 5810/1339 310 6020/1421 6030/next. AAL 99 1235 USB wkg Shanwick, Brussel - New York, 5720 350 5730 5740. ACA 871 1235 USB wkg Shanwick, AKGM 74M C-GAGC Paris CDG-Montreal 5610 5820 5830 330. CDN 55 1235 USB wkg Shanwick HLEF 767 C-FCAE, 5920 330 5930 5940. DAL 44 1225 USB wkg Shanwick BLHM L15 N763DL. DHL 016 1335 USB wkg Shanwick DGCL D8F N801DH. RIA 939 1340 USB wkg Shanwick BEAC L10 N313EA. UAL 903 1245 USB wkg Shanwick, JPDE, 767, N602UA London LHR - New York JFK. UAL 951 1235 USB wkg Shanwick JPDK 767 N608UA Brussel - Washington. UAL 971 1305 USB wkg Shanwick AGCR 767 N643UA Milan - Washington. WOA 6221 1305 USB wkg Shanwick GHDR MD1 N274WA 5030 290 5120 5215 to FL370. REACH 1300 0740 USB wkg Gander BDLM D8S N1805 Selcal check only. REACH 465 1935 USB wkg Shanwick Relaying for IFB 46, C-130 that lost contact with Shanwick. 51n20w/1914, FL190 51n15w/1949 BANLOW Requesting climb to FL230. To 2899. UAL 908 1930 USB wkg Shanwick New York JFK - London LHR 5030 FL370 5120 5215. (HW) QUID 21 KC-135 100th 1125 USB wkg Shanwick looking for oceanic clrc, put to 123.95. Gold 91 1120 USB w/Shanwick, 56N/15W FL250/270 56N/10W, LUK, Scottish Control on 249.475 v 129.225. (JF) Southern Air 9005 25 Dec.95 1307 USB wkg Shanwick, 53n20w 1305 FL390 53n30w 1354, Est 53n40w. C6-BER: 23 Dec.95 1759 USB wkg Iceland, req immediate descent from FL350. Initially to FL240, then to FL100. At 1840Z was 243nm from Keflavik & could not maintain VHF with Iceland. At 1834 was passing FL140. To 2899. C6-BER: 25 Dec.95 1430 USB wkg Shanwick, selcal check CHBE. Cubana 4029 23 Dec.95 1642 USB wkg Shanwick, 53n15w 1643 FL220 TAS 330 53n20w 1722, 53n30w 1832 52n40w, at 1941 ETA Gander 2135. Antonov ?? VR-BNA: 30 Dec.95 1014 USB wkg Shanwick, 55n20w 1012 FL310 54n30w 1057 next 53n40w. N399CC: 30 Dec.95 1150 USB wkg Shanwick, 54n20w 1149 FL390 55n30w 1235 next 55n40 G-1159. N916SJ: 31 Dec.95 1735 USB wkg Shanwick, on ground at Mildenhall for Radio Check, L-100 Southern Air. Air Jamaica 102 25 Nov.95 1220 USB On ground. Selcal check HKAL. N345TL 25 Nov.95 1517 USB wkg Iceland, at 32w call Reykjavik VHF & Sqawk 3134. A6ZeroHZ: 25 Nov.95 1603 USB wkg Shanwick, 60n 10w 1600 FL310, 61n20w 1640 next 62n30w. Any ideas on call-sign, poss error for A40-HZ? N117JJ: 26 Nov.95 1510 USB wkg Shanwick, 54n 20w 1514 FL390 53n30w 1603 next 52n40w Req. FL410 @ 30w Selcal JMEK. VR-CPO: 26 Nov.95 1454 USB wkg Gander, re-Estimating 50n40w 1849 47n50w 2005. N510US: 26 Nov.95 1921 USB wkg Gander, Recleared 51n50w-Stephenville FL390. Cubana 9798: 27 Nov.95 1953 USB wkg Gander, 51n40w 1950 FL280 53n30w 2040 53n20w 2126 53n15w. Also Cubana 9796. N900VL: 27 Nov.95 1954 USB wkg Shanwick, 57n20w 2032 Req FL450 56n10w next Selcal EHDM. GORDO 12: 03 Dec.95 1435 USB wkg Shanwick, 53n20w 1432 FL310 53n30w 1525 52n40w next [E-4 40787]. CanForce 120: 09 Dec.95 1430 USB wkg Shanwick, 60n20w 1426Z FL270 59n10w 1514 Stornaway next. Navy JR370: 09 Dec.95 1555 USB wkg Shanwick, 58n10w 1554 FL450 61n15w 1628 ALDAN next [165094 Grumman C-20G]. (RC)

5628 ASIANA-202? 1237 USB w/San Fransisco radio. (SB) Cathay 880 1100 USB AD-?? wkg HNL/ARP 165W F350. Thai 770 1103 USB wkg HNL/ARP 170E F350. EVA 06 1055 USB wkg HNL/ARP 41N160W F350. Thai Inter 770 1027 USB FJ-AM wkg HNL/ARP 33N165E F350. EVA 06 1034 USB wkg HNL/ARP 36N170E F330 .85. Air Canada 836 1059 USB wkg HNL/ARP 50N150W F390. Dynasty 006 1220 USB KM-AC wkg HNL/ARP and selcal check. Asiana 212 1132 USB BH-FS wkg HNL/ARP FIR 1132 F370. VARIG 837 1236 USB wkg HNL/ARP 33N170E F370 .85. Japanair 020 1037 USB CR-PS wkg HNL w/ARP 46N150W F370 QSY 5547. China Eastern 583 1046 USB FG-EQ wkg HNL w/ARP 33N165E F350. Asiana 212 1132 USB BH-FS wkg HNL w/ARP FIR F370. (TO)

5634 Air Mauritius 040 2049 USB wkg Seychelles/ARP F350 ARAKI 2102. Air

Mauritius 743 2055 USB wkg Mauritius/ARP vy weak no details. Springbok 282 2129 USB wkg Mauritius/ARP at 80E F350 (TO) French Line 754 2006 USB w/Seychells radio, help needed on this one. Who is French Line ?? (SB) [Tony sez AOM-Air Outre Mer France -RD]
5643 Springbok 281 1845 USB wkg Perth R. w/ARP F310 36S105E 1842. (JC4) Springbok 396 2007 USB w/Perth rdo, Johannesburg to Sydney. QF-7581: 1130 USB w/Nadi radio, Sydney to Nadi via Honolulu, Airway 579, TEPEK (18.43s/176.03e). NZ-1770: 1209 USB w/Nadi radio, Honiara to Auckland?, Airway A597 , GOPRA (20.12s/165.16e), LTO (La Tontouta, Noumea), VIRAR, (24.45s/167.44s). Solomon-701 1215 USB w/Sydney radio, Brisbane to Honiara, Airway A598, TEBAL (24.14s/154.27E), PUGAL (19.49s/156.13e), RIPNA (14.00s/158.25e) RIPNA is thew boundry between Brisbane & Honiara sectors. QF-7580: 1153 USB w/Nadi radio, LANIS (15.00s/179.08e). QF-12: 1154 USB w/Honolulu, Honolulu to Sydney. NZ-197: 1155 USB w/Auckland radio, Chrstchurch to Melbourne. AIRCAL-151: 1158 USB w/Nadi radio, Brisbane to Noumea, "on decent to noumea". AIRVAN-21: 1159 USB w/Brisbane radio, Port Villa to Brisbane, EPDR, VH-TJI, 737.400. QF-107: 1200 USB w/Nadi radio, Sydney to Los Angeles airway B580 TAVAR (15.00s/172.17e), GITON (10.00s/176.17e) BOILS (05.00s/179.50w). QF-4: 1202 USB w/Honolulu radio, Honolulu to Sydney. UNITED-815 1322 USB w/Nadi radio, Los Angeles to Sydney, FHDP, N178UA, 747.400. (SB) New Zealand 14 0844 USB wkg Brisbane/ARP F290 .84. New Zealand 204 0846 USB wkg BNE/ARP Lord Howe 44 F390-F410. United 841 1013 USB FG-HP wkg Nadi/ARP F310 fuel remain. 206.6. Qantas 18 0925 USB wkg HNL/ARP F350 req F390. Korean 664 1128 USB AS-BD wkg Nadi w/ARP F310 (TO)
5649 HZ-MS3 1010 USB Shanwick (Gulfstream III) 51n 30w 1007 fl390, 51n 40w 1058, 50n 50w selcal CDAG. (BH) Lufthansa 408 16/12/95 1511 ww Shanwick selcall ck LM-GS. Lufthansa 402 16/12/95 1512 ww Shanwick posn 55n FL370. (HS) AFR 001 1944 USB wkg Gander, DEAB, Paris CDG, New York JFK sn/30 sn/20. AFR 6400 1940 USB wkg Gander, to 122.37. BAW 269 2005 USB wkg Gander, 5940, 350 5950 5960. BAW 297 1945 USB wkg Gander, London LHR - Chicago FL370. CLX 774 1945 USB wkg Shanwick Luxembourg-Edmonton 5720 310 5930 6140. DLH8161 1945 USB wkg Shanwick CDJL, 74M D-ABZC 20 west. IBE 6401 1945 USB wkg Gander, Madrid-Mexico City 5040 310 4950 VIXEN. ICE 615 1945 USB wkg Gander Luxembourg - Keflavik to 133.42 at Oystr. VIR 001 1950 USB wkg Gander London LHR New York JFK 5340 5250 to 122.37. AFL 319 2025 USB wkg Gander, Shannon - New York JFK, 5430. AFL 325 2040 USB wkg Gander Shannon - Miami, 5430 310 5440 5350. AFR 001 2015 USB wkg Shanwick DGKM SSC F-BVFC Paris CDG - New York JFK, SN/30 SN/20 SN/10. AFR 240 2120 USB wkg Shanwick EHKP 340 F-GLZF Paris CDG - Rio de. BAW 179 2120 USB wkg Shanwick BDAH 747 G-AWNC London LHR New York JFK, selcal ck. CRL 940 2015 USB wkg Gander Paris ORY 390. CUB 471 2040 USB wkg Gander Madrid - Gander, FL310 to 330. DLH 404 2020 USB wkg Gander LMGH, Frankfurt - New York JFK, 5230 5240 5250. IBE 9681 2020 USB wkg Gander GLCE, 5230 310 5040 4950. TAP 9236 2100 USB wkg Gander AFJS 310 CS-TEX, 4640 4750 COLOUR. VIR 011 2050 USB wkg Gander London LGW - Boston, 5440 5350 350 StAnthony to 122.37. AIC 101 1915 USB wkg Gander JLCF 744 VT-ESN London LHR New York JFK, 5530 370 5540 5430. BAW 178 1900 USB wkg Gander New York JFK - London LHR, Mach .85. To 2872 Shanwick. KAC 101 1910 USB wkg Gander DGCJ 74M 9K-ADB Selcal check. KLM 625 1745 USB wkg Gander Selcal check. (HW) Lufthansa 475 0339 USB AF-KM wkg Gander/ARP 48N50W F330. KLM 672D 1004 USB DM-AK wkg Gander/ARP LOACH F370. VR-CIC 1006 USB CH-PS wkg Shanwick/ARP 50N30W F370 req F410. Speedbird 286 1010 USB CJ-DL wkg Gander/ARP 65N60W F350. Alitalia 621 1012 USB FK-EG wkg Gander/ARP LOACH F330. Iceair 614 0342 USB FM-KQ wkg Gander/Selcal check. Iceair 642 0343 USB FQ-AE wkg Gander/Selcal check. Air France 037 1035 USB BM-JS wkg Shanwick/ARP 49N30W F390. Finnair 104 0305 USB DE-AG wkg Gander/ARP 55N50W F350. Singapore 26 1029 USB LM-AD wkg Gander/ARP 56N30W F350 .86. KLM 617 1700 USB HJ-CG wkg Gander/Selcal check. Pakistan 718 0536 USB AK-FL wkg Gander/Selcal check. Cargolux 775 0536 USB JS-EP wkg Gander/ARP 65N60W F350. Olympic 414 0351 USB CH-DK wkg Gander/ARP 48N50W F350. Lufthansa 455 0501 USB FM-DK wkg Gander/Selcal ck. (TO)
5652 Air Afrique 132 2329 USB wkg Niamey/ARP F330 posns unreadable. Air France 7025 2330 USB EJ-BC wkg Niamey/ARP APERO. SABENA 551 2345 USB wkg Niamey/ARP KIRMI F330. Mozambique 707 2347 USB wkg Niamey/ARP

DELIS F330. Alitalia 847 2348 USB wkg Niamey/ARP est o/h Tamanrasset 0017 F330. Air Gabon 600 2317 USB wkg Niamey/ARP Agades 2325 F310. (TO)
5655 Dynasty 333 (CK-HL) 1856 USB wkg Singapore R. (JC4) Olympic 473 1856 USB wkg Singapore R. (JC4)
5658 AFL 964 1840 USB wkg Delhi FL280. AFR 461 2315 USB wkg Cairo, Reunion - Cairo, DWA from Reunion to Cairo. B747. AIC 160 1925 USB wkg Karachi Frankfurt - Delhi, Clg Karachi. No contact. ALK 547 2220 USB wkg Bombay Colombo - Zurich, Selcal check. AOM 702 2220 USB wkg Nairobi FL350. AZW 733 2245 USB wkg Khartoum Larnaca - Harare, FL370 from Larnaca to Harare. BAW 68 2315 USB wkg Khartoum Nairobi - London LHR, B747 Nairobi to London LHR FL310 SML. BBB 122 2240 USB wkg Tripoli Zurich - Mombassa, EA310 Zurich Mombassa. GS ORNAT FL330. DAL 107 2225 USB wkg Bombay EQAD 767 N173DN Frankfurt - New York JFK, sukat/2215 FL310. DLH 581 2230 USB wkg Khartoum Nairobi - Frankfurt AVONO. DLH 8367 1925 USB wkg Khartoum Nairobi - Frankfurt, From Nairobi to Frankfurt. DLH 863 2215 USB wkg Khartoum SML NWV to 129.4. ETH 667 1835 USB wkg Asmara From Jeddah to Addis Ababa. FL370. GFA 156 1835 USB wkg Bombay FL350. GFA 4002 2230 USB wkg Bombay EJGS 340 A40-LA, FL370. KLM 501 1920 USB wkg Bombay FL370 enkar. KLM 565 1840 USB wkg Cairo Amsterdam - Nairobi, Amsterdam to Nairobi. KLM 808 2230 USB wkg Bombay Kuala Lumpur - Amsterdam, clg Bombay. No contact. (HW) Swissair 292: 07 Dec.95 0017 USB wkg Khartoum, Selcal AFMQ. Departed Zurich 2018 Dest Nairobi FL330. (RC) Air France 451 2245 USB wkg Cairo/ARP ALEBA F310. Egyptair 753 2308 USB BJ-AG wk Cairo/Selcal check. Sanaa Radio 2333 USB Wkg Addis w/tfc rpt re: Gulf Air 713. Corsair 910 2334 USB wkg Mogadishu/ARP F290 est AVUSI 2346. AOM 702 2325 USB wkg Khartoum/ARP ME F350. Air France 490 0123 USB wkg Cairo/ARP est ME 0143. Air France 440 0124 USB wkg Khartoum/ARP ME 0123. LAZ 516 0125 USB wkg Cairo/ARP SML 0124. APR 5770 0122 USB wkg Cairo/ARP 737S Luxor-Mombasa F330 est SML 0147. Olympic 1061 0129 USB wkg Cairo/ARP F310 NUBAR 0133 SML 0137. Caledonian 238 0131 USB wkg Cairo/ARP SML 0132 F290 NUBAR 39. AFM 01 0150 USB wkg Khartoum/ARP MLK F350. LTU 660 0151 USB wkg Khartoum/ARP AVUSI 0150. Gulf Air 713 0152 USB wkg Addis/ARP F310 hvy QRM de AFM01. DSR 3576 0156 USB wkg Cairo/ARP SML 56 F350. LAK 770 0158 USB wkg Khartoum/Clg here no joy, carrier? Kenya 101 0159 USB wkg Khartoum/ARP SML 58 F370. Corsair 910 0202 USB wkg Cairo/ARP ME 59 F330 TUKAR 0210. Nigeria 983 0212 USB wkg Khartoum/ARP HR 0211 F350 GNA 31. Kenya 102 2241 USB wkg Cairo/ARP SML 0104 F350 NBO-LHR. Lufthansa 781 2313 USB wkg Bombay/ARP F310 est DETMA 2311, hvy QRM from Cairo and Khartoum. Bangladesh 001 2329 USB Clg Karachi here no joy :-(. Springbok 2121 2335 USB wkg Nairobi/ARP F390 ILDAL? LOKAT 23. SABENA 565 2343 USB wkg Khartoum/ARP AVONO 56 EPSIX 2337. Caledonian 231 2351 USB wkg Khartoum/ARP AVONO 50 F330 EPSIX 11. Jordanian 022C 2354 USB wkg Sanaa/enrt Sanaa req'd latest wx Sanaa. (TO)
5667 RAID 86 1329 USB wkg HNL/ARP 2960N170W F370. (TO)
5670 AIC 981 2055 USB wkg Madras HKFJ FL310. KAC 418 2045 USB wkg Kuala FL310 ANOKO. MAS 151 2055 USB wkg Madras CFKM 747 9M-MHJ selcal check. SIA 347 2035 USB wkg Madras BPGS 744 9V-SMN ATIDA APASI Athens-Singapore. SIA 402 2041 USB wkg Madras Singapore - Colombo FL330. SIA 409 2055 USB wkg Kuala KLAD 743 N124KK Madras Singapore ATIDA. AOM 924 1550 USB wkg Madras ACHK D10 F-ODLZ To Colombo ctrl. on VHF. BAL 609 1550 USB wkg Madras FL350 Atida Ubcox. IRA 841 1910 USB wkg Madras Kuala LumpurTehran VVZ/1948 to 6556. KLM 838 1920 USB wkg Madras Singapore - Kuwait BBI FL310 BBM. SIA 26 1920 USB wkg Madras Singapore - Frankfurt, FL280 VVZ REBRO. SVA 3989 1550 USB wkg Madras DKAB FL310. SVA 864 1925 USB wkg Madras AFGH 743 HZ-AIK Riyadh - Manila, FL330 UBCOX. AFR 157 1910 USB wkg Madras EHKP, 340 F-GLZF Singapore - Paris CDG BBI FL350 BBM. AIC 401 1605 USB wkg Madras Singapore - Madras, Anoko Apasi Atida. AIC 433 1830 USB wkg Kuala HKGM 310 VT-EJL FL350 ANOKO. ALK 303 1430 USB wkg Madras GJHE Singapore - Colombo, SABLO. ALK 313 1605 USB wkg Madras ACFM L10 4R-ULC, req FL350. ALK 422 1615 USB wkg Madras Colombo - Bangkok, called by Madras. No contact. BAL 601 1840 USB wkg Madras to VHF 118.9. BAW 12 1835 USB wkg Madras Singapore - London LHR Req. Madras wx. UBCOX FL310 VVZ REBRO. DLH 781 1835 USB wkg Madras Singapore -

Frankfurt, PPB FL310 UBCOX. GIA 892 1845 USB wkg Madras Singapore - Frankfurt ATIDA FL310 to 118.9. MAS 181 1945 USB wkg Madras ERBF, Madras - Kuala Lumpur From Madras to Kuala Lumpur. ATIDA. MAS 2 1910 USB wkg Madras Kuala Lumpur - London LHR UBCOX FL380 VVZ to 6556. MAU 741 1935 USB wkg Colombo Kuala Lumpur - Mauritius, called by Colombo. No contact. MPH 504 1415 USB wkg Madras Phuket - Abu Dhabi, SABLO PPB. QFA 9 1915 USB wkg Madras LQBH 744 VH-OJK Singapore - London LHR CLC FL310. SIA 25 1950 USB wkg Madras BPJS 744 9V-SMR Frankfurt - Singapore From Frankfurt to Singapore. UBCOX FL370 PPB SAPLO. SIA 26 1830 USB wkg Madras ALBH 744 9V-SMD Singapore - Frankfurt, FL280 PPB. SIA 334 1835 USB wkg Madras Singapore - Rome, UBCOX FL260 VVZ to 6556 Calcutta. SIA 410 1610 USB wkg Madras AHKM 747 9V-SQS Singapore - Madras Anoko FL310 Apasi Atida. SIA 421 1945 USB wkg Madras To Lumpur control on VHF. SIA 7395 1845 USB wkg Madras AMFG 74F 9V-SKQ UBCOX FL330 ATIDA APASI. SIA 7477 1835 USB wkg Madras Atida FL370 Apasi Amoko. VICTOR 8007 2015 USB wkg Kuala Switching to 3470. AIC 415 1520 USB wkg Madras JMCF, 310 VT-EJI Madras - Bombay, FL350 AKINO. ALK 141 1910 USB wkg Madras EMCG 320 4R-ABB Colombo - Bombay, from Colombo to Bombay (nice flight to monitor!). FL290 direct BBM, over to 132.6. ALK 183 1525 USB wkg Madras BLFJ. ALK 303 1535 USB wkg Madras ACBJ L15 4R-ULA Singapore - Colombo FL350. ALK 454 1845 USB wkg Madras FKAC Colombo - Tokyo, PPB LULDA. BAW 12 1820 USB wkg Madras Singapore - London LHR UBCOX VVZ to 6556/3491. BAW 136 1525 USB wkg Madras DFHK D10 G-BEBM, Abu Dhabi, FL370 to Abu Dhabi. CPA 749 1815 USB wkg Madras AFBE 744 VR-HUA Hongkong - Johannesburg FL350 PPB to 124.9 at APONI. DLH 779 1800 USB wkg Madras ALEG 744 D-ABVE Singapore - Frankfurt PPB FL280 VVZ. GIA 896 1935 USB wkg Kuala HSDK, Singapore - Abu Dhabi, FL310 BOKOP SAPLO PPB to 3491. IAC 555 2010 USB wkg Madras Madras - Kuala Lumpur APASI FL390 ANOKO VTA to dest. Kuala Lumpur runway 23 (the nicest flight in times to be heard here!). MAS 14 1755 USB wkg Madras Kuala Lumpur - Dubai, UBCOX VVZ REBRO to 6556/10018 Calcutta. MAS 150 1820 USB wkg Madras Kuala Lumpur - Jeddah to 124.9. MAS 185 2110 USB wkg Madras ERBG Madras - Kuala Lumpur FL270 ATIDA APIDA. MAS 2 1830 USB wkg Madras Kuala Lumpur - London LHR UBCOX VVZ to 6556/3491. MAS 3 2035 USB wkg Madras BJER Dubai - Kuala Lumpur PPB SAPLO. MAU 740 1810 USB wkg Colombo Mauritius - Hong Kong Called by Colombo. FL370. MPH 92 1520 USB wkg Madras FL310 MMV to 118.9. QFA 9 1805 USB wkg Colombo HJKP 744 VH-OJC Singapore - London LHR ANDOM FL310 APASI MDI CLC also ww. Bombay 5670. Changed freq, to 124.9 but went back on 5670 after 1 hour. SEY 63 2100 USB wkg Colombo CSBQ 757 S7-AAX Seychelles - Colombo, req Colombo wx. FL350. SIA 25 1955 USB wkg Madras DQAR Frankfurt - Singapore FL370 PPB SAPLO. SIA 26 1945 USB wkg Madras, AKJL, 744, 9V-SMA, Singapore-Frankfurt-Singapore-Frankfurt. CLC FL310 KAGLU ENKAR. SIA 319 2100 USB wkg Madras BPHR 744 9V-SMO London-Singapore, UBCOX PPB SAPLO. SIA 322 1835 USB wkg Madras, Singapore - London LHR, VVZ 6556/3491. SIA 328 1800 USB wkg Madras, Singapore - Frankfurt, PPB FL310 UBCOX VVZ. SIA 334 1755 USB wkg Madras, LMAD 744 9V-SML Singapore - Rome SAPLO FL310 PPB UBCOX VVZ. SIA 338 1600 USB wkg Madras ERAF 744 9V-SPA Singapore - Bombay FL350. SIA 343 2115 USB wkg Madras FMDE 744 9V-SMK UBCOX FL370 PPB SAPLO. SIA 346 1820 USB wkg Madras Singapore - Zurich MMV to 124.9. SIA 403 1945 USB wkg Madras KLAD 743 N124KK Dhahran - Singapore AVNOS FL370 ATIDA APASI. SIA 427 2035 USB wkg Madras AHGL 310 9V-STV Dubai - Singapore FL330 APASI to 3470. SIA 442 1840 USB wkg Madras CFDP, 310 9V-STA Colombo-Abu Dhabi to Abu Dhabi. KIMOP KABDU FL350. SIA 451 2120 USB wkg Colombo FLEH 310 9V-STO FL370. THA 308 2050 USB wkg Madras FL370 to 3470. UAE 077 1800 USB wkg Colombo Singapore - Colombo From Singapore to Colombo. FL310. ?-555 2130 USB wkg Madras DECM APASI FL310 (Who knows the company/type that is with DECM??). ALK 550 2055 USB wkg Madras BFJL L15 4R-ULB Dubai-Colombo FL370 KTA. BAL 603 2005 USB wkg Madras BBI FL350 BBM to 132.6. BAW 11 2035 USB wkg Madras AKQS 744 G-CIVB London LHR Singapore VVZ FL370 UBCOX PPB. CPA 749 1930 USB wkg Madras Hongkong - Johannesburg, FL330 switching to Colombo ctrl. GFA 287 2030 USB wkg Kuala EJKS 767 A40-GW To 3470. GIA 970 2000 USB wkg Madras DREM 744 PK-GSG Singapore - Abu Dhabi FL310 PPB. MAS 181 2035 USB wkg Madras ERAS Madras - Kuala Lumpur, UBCOX FL330. MAS 27 2055 USB wkg Madras EPGL

744 9M-MHL Kuala LumpurBrisbane ATIDA APASI. PIA 769 2035 USB wkg Madras APASI ATIDA. RJA 187 1940 USB wkg Madras APASI ATIDA FL310. SAA 286 2005 USB wkg Madras FL410 to Lumpur Radio. SIA 25 2045 USB wkg Madras ERBM 744 9V-SPB Frankfurt Singapore FL310. SIA 346 1940 USB wkg Madras DQAR Singapore - Zurich, selcal check. SIA 421 2030 USB wkg Kuala FL310 to 121.2 Madras. (HW) ???-891 1317 USB w/?-radio, BHMS, ID? (SB) Air India 411 1741 USB w/Lumpur @ "TOSOK" (6-00N/97-00E)"HK-GM" A310-300 VT-EJL Kuala Lumpur to Madras. Singapore 346 1753 USB w/Madras @ "ANOKO"(07-8.2N/94-25E), "BP-GR" 747-400 9V-SMM. Singapore 322 1715 USB w/Lumpur @ "TOSOK" "AE-HR" 747-400, 9V-SMV Singapore-LHR. Lufthansa 779 1740 USB w/Madras @ "APASI"(7-51.3N/92-46E), "BK-HL" 747-400 D-ABTB Singapore-Frankfurt. KLM 838 1741 USB w/Lumpur @ "ANOKO" "DM-AJ" 747-400 PH-BFE. Malaysian 2 1749 USB w/Madras @ "PPB"(11-40N/92-46E) "BJ-ER" 747-400 9M-MPD. KLM 808 1756 USB w/Lumpur @ "TOSOK" "BQ-EJ" 747-400 PH-BFO. Quantas 9 1714 USB w/Colombo @ "AKINO"(5-46.2N/92-00E) "HJ-KP" 747-400 VH-OJC. Malaysian 14 1654 USB w/Madras @ "SAPLO"(10-36N/94-25E) "BJ-FS" 747-400 9M-MPG. Singapore 334 1755 USB w/Lumpur @ "TOSOK" "LM-AD" 747-400 9V-SML (QSL'd in '94). Air Lanka 423 1629 USB w/Madras @ "PPB" "EM-BD" A320-200 4R-ABA. Air France 157 1641 USB w/Madras @ "ANOKO" "EH-KP" A340-300 F-GLZF. Iranian 841 1749 USB w/Lumpur @ "TOSOK" "GJ-AD" 747-SP EP-IAA, Kuala-Lumpur-Tehran. Pakistan 771 1750 USB w/Madras @ "ANOKO" "AS-BL" A310-300 AP-BDZ Singapore-Karachi. Swissair 187 1713 USB w/Madras @ "SAPLO" "AG-DQ" MD-11 HB-IWI. Pakistan 767 1735 USB w/Lumpur @ "TOSOK" "BC-EP" A310-300 AP-BEU. (JSM)

5680 Rankin Inlet Radio, Canada 2225 USB clg Baker Lake but no joy. (DHM)

6532 SATENA 130 1233 USB w/tfc w/Corozal. First time I've hrd an a/c on this frequency. SATENA is not listed in Bob Evans' aero book, but per "Colombia: A Travel Survival Kit" it is a small airline operated by the Colombian Air Force to serve isolated communities not reached by commercial air companies. Probably a very rare airline to log on HF! San Andres ATC 1235 USB clg Providencia but no joy. Providencia ATC 1224 USB clg San Andres. These are in a Colombian island group in the Caribbean. No joy, but "La Mina" answered & exchanged signal report. Can't find "La Mina" on my very detailed Colombian map (bought in Colombia!). At 1229 USB Turbo ATC (on the mainland) came on & welcomed Providencia to the frequency & exchanged signal rpts, New Year's greetings, & first names. I got the idea that the islands might be a new addition to the frequency. Corozal ATC 1231 USB called Barranquilla, then traffic. (DHM) Barranquilla R. 1120 USB Wkg UNID st. w/Barranquilla actual wx in SP (TO). (TO)

6535 Speedbird 267 (BR-AE) 0320 USB wkg Dakar ARP GAPOL F280. VARIG 767 (GM-AF) 0325 USB wkg Dakar w/ARP NANIK F350 DC10-30 PP-VMX. PLUNA 302 (GM-AD) 0326 USB wkg Dakar ARP ONOBI F310 a/c is DC10-30 PP-VMV of VARIG. VASP 785 (DL-EH) 0335 USB wkg Dakar R. ARP MOGNI MD11 PP-SPE. Argentina 1157 (AM-BC) 0345 USB wkg Dakar ARP GAPOL F310. Speedbird 245 (BP-CL) 0400 USB wkg Dakar ARP KENOX F310 (FLF) Ghana 161 0206 USB wkg Dakar w/ARP at posn ULTEM. This flight is now being operated by a World Airways MD11 on wet lease. (PI) VASP 774 0019 USB DL-EH wkg Dakar/ARP RAKUD F330 MOGNI 0057 .82 Air France 7295 0022 USB CP-HQ wkg Dakar/ARP off Nouakchott @ 19 F290. Air Afrique 312 0028 USB wkg Dakar/ARP IDINI F330 AR 53 ZRT 0111. Air France 214 0031 USB CP-GQ wkg Dakar/ARP ECHED 0027 F330 BIMOG 46. Air Portugal 394 0048 USB HS-FP wkg Dakar/ARP NANIK F370 .83 SAGRO 0120. Speedbird 266 0113 USB BP-CL wkg Dakar/ARP NANIK F330 SAGRO 0145. Swissair 144 0115 USB AG-BQ wkg Dakar/ARP REMLI F280 BRENA AR. Iberia 6840 0138 USB EK-CJ wkg Dakar/ARP NANIK F370 .84 SAGRO 59. VARIG 700 0138 USB AP-JM wkg Dakar/ARP ONTER F370 BURET 0217 .81. Argentina 1163 0139 USB JM-DH wkg Dakar/ARP UDELA 35 F310 ARDUS 49. VASP 750 0145 USB CE-BD wkg Dakar/ARP RAKUD F370 .82 MOGNI 0224. Air Afrique 9972 0147 USB wkg Dakar/ARP ZRT 46 F290 BIMOG 0205. Corsair 762 0148 USB wkg Dakar/ARP ECHED 46 F330 BIMOG 0208. Air France 243 0149 USB GM-DF wkg Dakar, Selcal check. Lufthansa 527 0249 USB AL-EH wkg Dakar/ARP NANIK F330 .85 SAGRO. Lufthansa 503 0335 USB LM-HR wkg Dakar/Selcal ck. New Zealand 19 1123 USB wkg Nadi ACC/in for selcal check (no code given) confirmed block alt. F350-F390 (TO)

6556 ACA 986 1955 USB wkg Calcutta DREM FL280 to FL350 JJS. AFL 552 2035

USB wkg Calcutta Bangkok - Delhi, Posn FIR "jabak", FL310. ALK 505 2150 USB wkg Madras Clg Madras. No contact. CAL 065 2122 USB wkg Calcutta BDAR MD1 B-151 Amsterdam To Amsterdam FL310 DOPID JJS. CAL 345 2005 USB wkg Yangong JMAH 74F B-1894 Bangkok Abu Dhabi FL310 Bangkok to Abu Dhabi. RIBRO VVZ. CPA 270 2125 USB wkg Calcutta selcal ck. CPA 293 2025 USB wkg Calcutta FL350 VILOP KKJ JJP to 5658 or 5601. CPA 748 2045 USB wkg Calcutta AFCE 744 VR-HUE Johannesburg - Hong Kong B747, reg. VR-HUE. DLH 745 1940 USB wkg Calcutta Bangkok - Frankfurt VVZ. DLH 775 1945 USB wkg Calcutta EMAL 744 D-ABVL Bangkok - Frankfurt, B747 FL330 VVZ RIBRO NNP. DLH 8455 1955 USB wkg Calcutta CHAB 74F D-ABYW FL280 VVZ MEPOK BUSBO. ELY 082 1945 USB wkg Calcutta KATGO FL310 VVZ MEPOK. GFA 148 2200 USB wkg Madras Clg Madras. No contact. GIA 801 1955 USB wkg Udjung Hong Kong - Jakarta, FL350 from Honolulu to ? GIA 860 2000 USB wkg Calcutta HMFK 747 PK-GSD Bangkok - Abu Dhabi, from Bangkok to Abu Dhabi. FL310 to 350 VVZ MEPOK BUSBO. GIA 891 2155 USB wkg Calcutta BHLS MD1 EI-CDI Abu Dhabi - Singapore, RIBRO VVZ UBCOX PPB. GIA 972 2155 USB wkg Calcutta BHMS MD1 EI-CDK Bangkok - Abu Dhabi, KKJ. GIA 986 2105 USB wkg Calcutta DREM 744 PK-GSG JJS FL350 VILOP KKJ. LOT 088 2055 USB wkg Calcutta VVZ FL350. MAS 15 2035 USB wkg Calcutta VVZ UBCOX PPB SAPLO. MAS 151 2035 USB wkg Calcutta Clg Madras. No contact. MAS 18 1945 USB wkg Calcutta Kuala Lumpur - Dubai, FL280 NNP to 123.9. MAS 204 2130 USB wkg Calcutta FL370 KKU. MAS 3 2125 USB wkg Calcutta BJFR Dubai - Kuala Lumpur, PPB. GFA 255 1450 USB wkg Calcutta VVZ FL310 BUSBO. PIA 779 1505 USB wkg Calcutta Bangkok - Islamabad, FL310. SVA 989 1445 USB wkg Calcutta Bombay - Riyadh, VVZ MAPOK FL390. UAL 1 1505 USB wkg Calcutta CERS 767 N659UA Los Angeles Hongkong FL350 LSO. (HW) Speedbird 12 1830 USB w/Calcutta @ "UBCOX" (15-29.4N/86-49.4E) "BP-AL" 747-400 Sing-LHR. Lufthansa 709 1836 USB w/Calcutta @ "TUNKO" (15-43.1N/92E), "LM-CR" A340-200 D-AIBC Bangkok-Munich. (JSM) Sempati 093 1248 USB wkg Perth/ARP QSY 134.0 (TO)

6577 AAL 1384 2255 USB wkg New York FL310 KRAFT. ACA 960 2245 USB wkg New York Montreal - St. Lucia, To TPPA via 19.30n 60w. BAL 522B 2245 USB wkg New York CDKM 767 G-BYAB PISAX FL350. BWA 423 2300 USB wkg New York PISAX to 125.0. BWA 424 2255 USB wkg New York FGAD L15 9Y-TGN Squawk 3616. COA 232 2300 USB wkg New York AKJM. (HW) New York 1/1/96 2000 USB apparently lost HF contact with N74RT, req Continental 242 to go to a vhf freq, call N74RT, & ask his posn for her. 242 did & got her the info. Then she gave 242 the sqwauk code & vhf freq for 74RT & asked him to pass that. He did & acknowledged delivery. (RR) American 1035 1952 USB BP-DE wkg NY/Selcal check QSY NY CTR 125.8. APA 297 1435 USB FM-DE wkg NY/ARP ODILE F290 (TO)

6586 Ouaga 2325 ARP F330 AMSAT est 2251. A300 reg. TU-TAI. Abidjan R. 2230 USB wkg Air Afrique 174 dep Abidjan 2215 ETA. (FLF) DTA 658 2205 USB wkg Accra Luanda - Lisbon, clg Accra, no contact. (HW) SAB 514 21 Dec.95 0000 USB wkg Accra, dep Abidjan 2353 FL330 AMSAD 0024 ETA Brussles 0630Z. (RC) Delta 80 2308 USB CD-BS wkg NY/F330 req F350 Selcal check. N221RE 2216 USB JM-CR wkg NY/ARP BROOM F350. AmTran 3812 2055 USB GH-KQ wkg NY/Selcal check. N254DV 2056 USB wkg NY/cleared to dev. 25 mis to W direct JAINS when able (TO)

6622 N5072: 26 Nov.95 1259 USB wkg Shanwick, Selcal check HPCM. N300WY: 26 Nov.95 1305 USB wkg Shanwick, 54n20w 1301 FL390 53n30w 1349 next 51n40w. (RC) Air France 6458 1329 USB FM-BK wkg Gander w/ARP 53N30W F330 53N40W next. ESA 742 1529 USB wkg Gander w/ATC request when able F370 (TO)

6628 Continental 638 USB 0835 wkg Honolulu, w/posrep. (AW)
Corsair 929 CE-FL 0137 USB wkg New York w/ARP 18N54W. Dominicana 332 0140 USB wkg New York w/ARP at 21N50W. Springbok 202 CQ-AS 0144 USB wkg New York for selcal check. Corsair 927 CL-DG 0152 USB wkg New York for ARP at 30N50W. BWIA 984 0203 USB wkg NY maintaining F290 c/s is West Indian. Ghana 161 0205 USB wkg S Maria w/ARP at posn ULTEM. Speedbird 254 AM-GJ 0215 USB wkg New York w/ARP at 27N50W. Air France 541 KM-BD 0225 USB wkg New York at 18N58W. Iberia 6790 KM-AJ 0226 USB wkg New York w/ARP at 18N60W. Viasa 730 0231 USB wkg S Maria w/ARP at 34N40W. Iberia 6500 0232 USB wkg New York at posn PISAX. Liberte 850 BL-FG 0239 USB wkg New York w/ARP at 30N50W. BWIA 900 FG-BC 0248 USB wkg New York at 18N60W. Martinair 618 JM-AS 0018 USB wkg New York

w/an ARP. Frenchline 423 AC-FL 0020 USB wkg New York w/ARP. LTU 441 DR-ES 0025 USB wkg New York for an ARP. (PI) Air Afrique 510 0616 USB wkg NY/ARP 36N60W F310. KLM 778 0623 USB HJ-CG wkg SM/ARP 36N40W F330. Cubana 472 0051 USB wkg NY/ARP 27N50W F350 IL-62. Portuguese AF 0025 0950 USB wkg SM/clearance to LPLA given. (TO)
6637 Cathay 881 0959 USB wkg Hong Kong Dragon Radio w/fuel requirements Pioneer 803 0743 USB wkg Houston R. LDOC (JC4) Biscayne 190 1051 USB wkg Miami LDOC/selcal checked and expect ETA Guantanamo rpt soon. CKS 807 1053 USB wkg CK-AE Miami LDOC/Selcal check. World "MAW" 0621 USB wkg EG-AB Miami R. LDOC/o/h TIM F330 ETA SBBR 0930. CKS 801 0219 USB wkg Miami LDOC ETA MIA 0355. Amerijet 103 0250 USB wkg Miami R. LDOC w/pp to co. ops. Amerijet 826 0256 USB wkg Miami LDOC w/pp to ops on the grnd POP. Fastair 300 0522 USB wkg Miami LDOC Iquique-MIA ETA 1130. Aeromar 430 0531 USB JK-LM wkg Miami LDOC BOG-MIA. Connie 61C 0543 USB wkg Miami LDOC w/pp to Ops Costa Rica-MIA. SJM 204 0557 USB wkg Houston R. BOG-MIA ETA 0823. Big A704 0627 USB HK-AF wkg Miami LDOC w/dep msg Medellin-MIA. Fine Air 54 0640 USB EK-JM wkg Miami LDOC for selcal check. (TO)
6640 New York ARinc NY, US (NA-CC-LDOC) wkg DHL 512 w/pp re flt plan. San Francisco ARinc, US wkg United 805 re SatComm data link lost. (RB) Continental 62 0521 USB wkg NY ARINC/pp w/comp maint. re: windshield problem, will need lower alt. Fine Air N27UA 0526 USB wkg NY ARINC, dep msg from Bogota ETA MIA 0800. World 272 0736 USB GH-AS wkg NY ARINC/QSY from 5598 pp w/co. Dolphin 9203 0655 USB wkg NY ARINC pp to dispatch customs problem. Tower Air 61 0530 USB HK-GM wkg NY ARINC for selcal check. (TO)
6643 Namibia 661 0124 USB wkg Berne R./F390 ETA FRA 0530. (TO)
6649 Japan Air 063 0916 USB wkg Panama R. w/ARP (JC4) MAA 4525 0530 USB wkg Panama/attempted ARP but Panama did not copy a/c. A/c of Aerotransportes Mas de Carga, SA Mexico. LAN Chile 148 0627 USB AB-HS wkg Panama/ARP ANGUD-ALBAN-KORPU routing. American 911 0621 USB wkg Panama/ARP ARNAL F330. LACSA 641 0536 USB JS-BD wkg Panama/ARP F330 A320 LAX-MEX req F370. LAN Chile 341 0554 USB wkg Panama/ARP F370 posns not copied due rapid fire SP. Cargo 188 0555 USB wkg Panama/ARP ISETO 56 F310. LADECO 361 0533 USB DH-LM wkg Panama/ARP ETADA F370. Boliviano 909 0637 USB wkg Panama ARP ARNAL F330 TBG next. Boliviano 911 0702 USB wkg Panama w/ARP F330. MPX 6793 0611 USB wkg Panama confirming route to Acapulco. United 972 0627 USB EG-PS wkg Panama w/ARP ANGUD F390. (TO)
6655 Japanair 062 1102 USB wkg HNL/ARP40N150W F370. United 828 1111 USB AL-CE wkg HNL/est for 170E 1123 req F330. (TO)
8828 Auckland VOLMET 0920 USB Aero wx strong signal. (TO)
8831 FUZZY 93 (KC-135) 1251 USB wkg Gander, c/s spelled. 55n 30w 1251 fl370, 55n 40w 1336, 53n 50w. (BH) Northwest 33 1655 USB AL-EM wkg Gander/ARP 50W F350 req F370. American 173 1703 USB JM-HK wkg Gander/ARP 54N40W F350 (TO)
8837 Unid: 26 Dec.95 2319 USB wkg ?? in Portuguese, wx for LPLA & Santa Maria, ground station had Selcal. (RC)
8846 Nandi R. ACC 1940 USB wkg Tarawa R. ACC (JC4) Royal Tongan 801 1813 USB wkg Nadi R. ACC dep. Fua'amotu 1810 POB 14 (JC4) Tarawa R. ACC 1832 USB wkg Nadi re Marshalls 011 (JC4) Royal Tongan 502 1903 USB wkg Nadi dept Niue 1854 est POB 44 fuel remaining 35.0. Marshall Islands 016 0603 USB wkg Nadi R. dept. Tarawa 0555. Pacific 440 0728 USB wkg Nadi dept. Fua'amotu 0726 ETA Auckland 1009 (JC4) N173A 2210 USB wkg NY/ARP FLORY F370. CO232 2038 USB DK-JL wkg NY/Selcal check. KFS 145 2145 USB wkg NY/ARP ODEAL 52 F370 PRISS 2016. GAE 184 2231 USB wkg NY w/ARP "Grand Express" c/s. N608CC 2057 USB wkg NY req F390 to SJU CTR 128.15. Navy JU512 2053 USB wkg NY w/ARP NANCE F310. (TO)
8855 Pantanal 7510 2235 USB wkg Manaus R. BRAZIL ATR42 PT-MFF dept. Porto Urucu 2230 ETA Manaus 2345. Fabio notes that it is possible to hear this daily flt reporting in just after scheduled dept. (FLF/RADAR). (FLF) CWC 174 0922 USB wkg Manaus R. w/ARP (JC4) Argentina 1300 0632 USB wkg Maiquetia/ARP Boa Vista F350 Canaima next. VASP 845 0646 USB wkg Manaus/ARP F350 Alta Floresta. Transbrasil 767 0650 USB wkg Manaus/ARP VAGAN F370. VARIG 801 0653 USB wkg Maiquetia/ARP VAGAN F330. Avianca 945 0655 USB wkg Manaus/ARP F370 QSY 125.25/126.3. TEJ 8101 0656 USB wkg Clg Porto Velho here no joy. VASP 896 0702 USB wkg Manaus/ARP F350 pos. unreadable. VARIG 860 0714 USB wkg Porto

Velho/ARP no details. REACH 40628 0558 USB wkg Recife/ARP 5N0373W F350 QSY Belem. Argentina 1131 0606 USB wkg Recife/ARP Noronha F350. Argentina 1310 0614 USB wkg La Paz/ARP ALPEG F350 Rio Branco next. American 908 0616 USB wkg La Paz/ARP F330 est Rio Branco 0654. REACH 40628 0558 USB wkg Belem/same as above. United 982 0610 USB wkg Maiquetia/ARP VAGAN F350. Piarco Radio USB Wkg REACH 40628 at 6.25N40W F350. VARIG 855 0005 USB wkg Maiquetia/ARP MJ req F370 dir VAGAN 0548 at F290 now. VASP 869 0044 USB wkg Cayenne/ARP F350 1003N4756W est. VASP 815 0517 USB wkg Manaus/ARP PUERA F370. Transbrasil 797 0518 USB wkg Manaus/ARP F330 est Boa Vista 0528. Argentina 1302 0530 USB wkg Porto Velho/ARP F310. SJM 4 0531 USB wkg Manaus/ARP REMIL F260 AROPI 0555. VARIG 819 0534 USB wkg Manaus/ARP VAGAN F330. VARIG 860 0544 USB JM-AL wkg Belem/ARP F310 posns unreadable due accents. PT-OOI 0558 USB wkg Manaus/ARP Boa Vista, flight level ?. Cubana 451 0603 USB wkg Manaus/ARP Boa Vista F310 FELIX next. American 906 0605 USB wkg Manaus/ARP DARLO F350 TEPIM 0628. REACH 40628 0612 USB wkg Cayenne w/ARP 55.4N6038.5W F350. (TO)

8861 Air Ivoire Fokker F-100 TU-TIV 1958 wkg Abidjan dept msg ETA Conakry 2139 (FLF/RADAR). (FLF) TAP 383 0707 USB BM-CS wkg Recife/ARP MOGNI F350. Speedbird 244 0239 USB BR-AE wkg Recife/ARP EVBOT F330. Iberia 6801 0528 USB AG-BC wkg Recife/ARP RAKUD F350. (TO)

8864 REACH 40621 (C-141B) 1221 USB clg Shanwick, no joy. KING 81 (HC-130) 1245 USB wkg Gander, 63n 30w 1250 fl240, 61n 40w. Call Iceland VHF, 40w on this freq. Reach 265ZZ 1336 USB clg Shanwick, no joy. The ZZ suffix was used when the first US troops were flown in to Croatia a last summer. They were then operating out of Brize Norton. SLUMP 31 (C-130, 314 AW, Little Rock) 1344 USB wkg Gander, 58n 30w 1341 fl220, 58n 40w 1444, 55n 50w. (BH)

8867 N410WW 0206 USB wkg Auckland at F450 (JC4) NZ 98 2020 USB w/Nadi radio. NZ 161 2054 USB w/Brisbane radio. EVA AIR 365 2056 USB w/Brisbane radio. Pacific 950 2103 USB w/Brisbane radio, Nadi to Brisbane, CQDR. QF 100 2106 USB w/Brisbane radio. N-166WC 0214 USB wkg Brisbane radio. Gulfstream 4, Washington Corp, from Australia to Honolulu, No point of departure known. QF-3: 0525 USB w/Honolulu radio, Sydney to Honolulu, Airway 579, COLDS (16.35n/161.13w). QF-25: 0544 USB w/Honolulu radio, Cairns to Honolulu. QF-56: 0648 USB w/Auckland radio, Christchurch to Brisbane, JMEG VH-ECC 747.200, this a/c was fitted out as a SCD model, w/half pax & half freight, it's now converted to all pax config, as w/VH-ECB. QF-11: 0659 USB w/Auckland radio, Sydney to Los Angeles, on a non-standard air way, maybe using satnav system. Britannia-607 0659 USB w/Auckland radio, Auckland to London via Cairns, on airway 346, Metet (32.26s 166.57e), TEKEP (30.29s/163.00e), TESAT (29.10s/160.42e), TABAL (28.15s/159.10e), POPOV (27.26s/157.55e), Hamilton Island NDB. QF-25: 0207 USB w/Brisbane radio, Cairns to Honolulu. NZ-11: 0208 USB w/Nadi radio. QF-101: 0209 USB w/Honolulu radio, Melbourne to Los Angeles. Singapore-288 0448 USB w/Brisbane radio, Auckland to Singapore, on airway A346, LADOM (23.21s/152.33e). NZ-153: 0451 USB w/Brisbane radio, Wellington to Melbourne. FEDEX-9593 0453 USB w/Brisbane radio, Sydney to Honolulu, DEFM, N638FE 747 on airway B580 TABAL (28.15s/ 159.10e), VESUN (24.58s/163.0e) then Nadi. AIRCAL-141 0457 USB w/Brisbane radio, Sydney to Noumea. AIR NAURU-312 0502 USB w/Honolulu radio, to Nauru airport. AIR VAN-14: 0506 USB w/Nadi radio, EPDR, VH-TJI, 737.400. NIUGINI-5081 0136 USB w/Brisbane radio, Noumea to Port Moresby?, I have a feeling it's an F-28. QF-53: 0139 USB w/Brisbane radio, Brisbane to Auckland. QF-52: 0145 USB w/Brisbane radio, Singapore to Brisbane & Sydney, a/c was on the ground Brisbane & pre flight check. Ansett-874 0146 USB w/Brisbane radio, FL-220, BAe-146? SINGAPORE-280 0428 USB w/Brisbane radio, Somewhere in New Zealand to Melbourne and Singapore. (SB) Qantas 3 0649 USB wkg HNL/ARP F350 .85 posns unreadable. Royal Tongan 200 0650 USB wkg BNE/ARP posns unreadable. XD07 0655 USB wkg AKL/ARP BOSLA F180-270 block alt. Qantas 101 0657 USB LQ-BH wkg BNE/ARP F370. Qantas 11 0658 USB wkg Nadi/ARP LTO 57 F290 .83 req dev 40 mis R of track due wx. Qantas 26 0704 USB wkg Nadi/ARP F350. Qantas 54 0710 USB wkg BNE/ARP TEKEP F390 .86 Lord Howe 0738. New Zealand 1171 0712 USB ?S-BR wkg AKL/ARP REPOL? F390 .82 grnd speed. Royal Tongan 200 0716 USB wkg BNE/ARP LASEK F310 .76 MILUV next. Pacific 930 0719 USB wkg Nadi/ARP

& QSY AKL 5643. New Zealand 106 0728 USB LQ-GK wkg AKL/Selcal check 767-300ER SP-LPA on lease from LOT Polish. New Zealand 8 0730 USB wkg HNL/ARP TOALS? F370 .80. VH-FSX 0743 USB wkg AKL/ARP F370 posns unreadable, enrt Faleolo. ?-NSM 0746 USB wkg BNE/ARP est SADAX? 0824. Fedex 77 0748 USB wkg BNE/ARP VIKOG? F330 req F310. United 816 0750 USB wkg AKL/unable SATCOM at this time :-) est 1509S16917W 0900 "try logging on with NZ01". (TO)

8879 NAHA AIR, JAPAN 0920 USB clg JAL flight. (EW) Mauritius Radio ATC 2218 USB wkg Unid flight. Nairobi ATC 2240 USB wkg Dar es Salaam ATC. Air India 216 EJ-CL 2241 USB Selcal check w/Nairobi. Cargolux 715 2252 USB Calling Luanda/ No ans. Frenchline 25 2253 USB ARP w/Lusaka at posn KO (PI). (PI) Swissair 287 1957 USB AF-PQ wkg Lusaka/ARP RUDAS F290 QSY 8888. Maldives 051 1258 USB wkg Bombay/ARP at PIKAV? F290 RAVIT. first of three call ins for this flight, made sure of callsign!. VH-JMX 1305 USB wkg Perth/ARP F330 hvy Gander QRM. Speedbird 175 1342 USB BG-DE wkg Gander/ARP 52N30W F330. Speedbird 187 1346 USB AM-DH wkg Gander/ARP 57N30W F350. Speedbird Concorde 001 1313 USB BH-FJ wkg Gander/ARP SM 30W 1312 F520 climbing SM 40W 1333 040/30 -60. Shamrock 105 1405 USB DJ-GR wkg Gander/ARP 52N30W F390. Alitalia 610 1425 USB EK-HM wkg Shanwick/ARP 51N20W F310. Turkish 581 1427 USB ER-CD wkg Gander/ARP 53N30W F390. Speedbird 199 1524 USB BF-MP wkg Gander/ARP 53N30W F370. Swissair 128 1525 USB CL-BE wkg Gander/ARP 52N30W F350. Alitalia 664 1448 USB FK-EH wkg Gander/ARP 52N30W F350. Speedbird 237 1451 USB BD-FL wkg Gander, Selcal check. Lauda 6868 1457 USB BL-JP wkg Gander/ARP 52N30W F330. Speedbird 197 1429 USB BF-KP wkg Gander/ARP 52N30W F350. Speedbird 205 1529 USB AC-JM wkg Gander/ARP 63N50W F330. Speedbird 217 1536 USB BD-AH wkg Shanwick/Selcal check LHR-IAD. Lufthansa 418 1549 USB CG-FL wkg Gander/ARP 58N30W F350. Speedbird 219 1552 USB BE-KL wkg Gander/ARP 56N30W F310. Pakistan 703 1553 USB wkg Gander/ARP 51N40W F330. Speedbird 243 1555 USB BP-AK wkg Gander/ARP 56N30W 747-400 LHR-MEX. Swissair 100 1559 USB DE-GK wkg Gander/ARP 56N30W F330. LOT 006 1617 USB HS-CD wkg Gander/ARP 53N30W F370. Swissair 120 1630 USB DE-GL wkg Gander/ARP 52N30W F350. TAROM 005 1250 USB BJ-LS wkg Gander/ARP 56N30W F330. Austrian 515 1645 USB BM-HK wkg Gander/ARP 54N30W F350. Lufthansa 402 1647 USB CP-BR wkg Gander/ARP 56N40W F370. Cathay 007 1719 USB KL-?? Clg Bombay/Gander responded w/an offer to relay rpt for them as they were unable QSY on 5658/8879/11300. Iceair 921 1137 USB wkg Gander/req. CYYT wx rpt. Swissair 120 1651 USB DE-GK wkg Gander/ARP 53N30W F330. (TO)

8891 Iceland ATC 2214 USB tfc w/Icelandair 473. Baffin Radio 2219 USB tfc w/Air France 6701. (DHM) Speedbird 6718 0553 USB wkg Montreal R. for ARP (JC4) Baffin Rdo, NWT, CAN (NAT-D MWARA) wkg Martinair 940, selcall ck, GM-DJ. At 2202, wkg ?-Cargo 084 w/posn, selcal ck JK-CD. (RB) United 803 2018 USB AF-EG wkg Baffin/Selcal check. Air France 6583 2025 USB wkg Baffin/ARP 80N168W F350. United 935 2031 USB AG-JS wkg Baffin/ARP H80W F350. New Zealand 19 2112 USB JQ-EM wkg Montreal/Selcal check. Korean Air 028 2123 USB CM-LR wkg Baffin/ARP SM F370 ETA JFK 0120. (TO)

8894 MXX 106 1937 USB wkg Algiers w/ARP. (PI) SABENA 514 0035 USB wkg Algiers/ARP est NSL 0124. (TO)

8896.5 Huanuco Aeradio 2256 USB Tfc w/Lima (Peru). Yurimaguas Aeradio 1230 USB called Lima, tfc, first time hrd - Peruvian airport #17. Chachapoyas Aeradio 1234 USB called Lima, tfc - rarely hrd. Rioja Aeradio 1242 USB called Cajamarca, tfc - another new one for #18. (DHM) Lima Aeradio 2334 USB wkg Pucallpa Aeradio w/tfc in SP. (TO)

8903 Douala ATC, Cameroon 2050 USB FF tfc w/unid a/c. Goma ATC Zaire 2109 tfc w/unid a/c. Kinshasha ATC Zaire 2119 USB w/Speedbird 56. Kano ATC Nigeria 2137 USB tfc w/Douala about several flights. Luanda ATC Angola 2142 USB w/Speedbird 58. (DHM2) Charter 1225 (Angola Air Charter) 2145 USB wkg Luanda Radio ARP Cafunfu 2155 F280 abeam Malange 2207, TMA 2212 B727F D2-TJA (FLF) [Tony notes this is an excellent log, Angola 727's are not often heard on HF -RD] Air Zimbabwe 726 2121 USB ARP-Kinshasa/lvl 350. KLM 594 2124 USB wkg Brazzaville w/ARP. Speedbird 044 2126 USB wkg Kinshasa/lvl 310. Speedbird 056 2138 USB wkg Kinshasa w/ARP at MPK. KLM 594 2142 USB wkg Brazzaville at posn MIKMA. Air Afrique 770 2144 USB wkg Kinshasa w/Req 370. Springbok 266 2153 USB wkg Brazzaville w/ARP at posn CF.

Air Zimbabwe 727 2158 USB wkg Niamey w/ARP. Springbok 234 2219 USB wkg Luanda w/ARP at posn ANUBI. Swissair 287 (AF-PQ) 2223 USB wkg Brazzaville w/ARP at TIVAL. Air Zimbabwe 724 2226 USB wkg Kinshasa for an ARP. Speedbird 58 2229 USB wkg Brazzaville w/ARP at posn RAMOR. AFM 17 2306 USB requesting F370 from Kinshasa. Sabena 526 2321 USB wkg Kano at posn MF. Air Namibia 661 2136 USB wkg Luanda for an ARP. Air France 421 2137 USB wkg Luanda w/ARP. AFM 04 2141 AC-FK USB wkg N'djamena w/ARP. Lufthansa 573 AL-DH 2142 USB wkg Kinshasa w/ARP. KLM 598 EH-BK 2144 USB wkg Kinshasa w/ARP. Air France 431 AF-CR 1952 USB wkg Kinshasa at posn BUGRO. Aeroflot 463 1956 USB Clg Niamey/no ans. Springbok 274 2055 USB wkg Luanda w/ARP at BUGRO. Air Namibia 663 2058 USB ARP-Luanda/abeam VNL. Springbok 201 2113 USB wkg Luanda at posn CC. Springbok 248 2125 USB wkg Luanda w/ARP at VVL. DTA 658 CF-AJ 2135 USB wkg Luanda w/ARP Angola Airlines. Ascot 2582 2100 USB wkg New York ARINC w/pp (PI) QF-177 0359 USB wkg Port Moresby radio, Sydney to Seoul, JMEH VH-EBT 747.300. QF-69: 0415 USB w/Port Moresby radio, Cairns to Narita, EGFK, VH-EBS, 747.200, saw this a/c depart Cairns, can confirm selcal. Japan Air-776 0436 USB w/Port Moresby radio, Cairns to Narita, DJGH, N212JL, 747.300, saw this a/c depart Cairns can confirm selcal. Asiana-612 0210 USB w/Port Moresby radio, Cairns to Seoul. NZ-81 0518 USB w/Port Moresby radio, "Change to Honolulu". JAPAN AIR-772 0342 USB w/Port Moresby radio, Sydney to Narita. (SB) Air Gabon 606 2258 USB w/Kano /just airborne from Libreville/enrt Marseilles F-ODJG 747-200. Speedbird 58 2132 USB w/Brazzaville @ "TERBA" (04-50S/6-35E) G-BNLL 747-400 Capetown-LHR. Springbok 238 2309 USB w/Luanda @ "BUDRO" (S.E. Angola) "CD-AF" 747-200 ZS-SAN Joburg-LHR. (JSM) VARIG 1095 0020 USB BQ-EG wkg NDJ/req relay of position to Martinair Ops ARP est AMPIL next. Springbok 234 2101 USB wkg Luanda/ARP JNB-LHR BUGRO 2100 F310 VVL 2147 ANUBI 2235. Springbok 260 2128 USB wkg Brazzaville/ARP JNB-FRA dept. 1910 ETA FRA 0545 at VVL 2119 F350 747-SP ZS-SPC. Springbok 253 0218 USB wkg Brazza/ARP TJN 05 F350 MOTET next. SJM 6604 0216 USB wkg Brazza/ARP MF 09 F370. Speedbird 058 2018 USB wkg Luanda/ARP F310 a/b JNB 1828. Air France 429 2020 USB HP-JM wkg Luanda/ARP BUGRO 2018 F350 VVL 2105. Lina-Congo 882 2032 USB wkg Brazzaville/ARP off Libreviile destination Pointe Noire. Springbok 272 2054 USB CK-EF wkg Luanda/ARP JNB-ORY F350 a/b JNB 1946 est BUGRO 2104. A good time to check this frequency for recent northbound departures from JNB is between 1900-2100 where you can hear flight after flight checking in at the Luanda FIR boundary. Speedbird 056 2110 USB wkg Kinshasa/ARP LUB 10 F310 TENKA. Lubumbashi Radio 2114 USB wkg Kinshasa re BA056. Springbok 234 2115 USB CD-AF wkg Luanda/ARP BUGRO est 2116 F310. Cameroon 815 2138 USB AF-BC wkg Kano/ARP F370, PT 59, ETA FIR boundary 2210, ETA Douala 2232. Springbok 266 2038 USB wkg Luanda/ARP JNB-MUC F310 BUGRO 2038. Cameroon 807 2047 USB wkg Brazza/ARP F310 too fast even for me! :-) B737-200 Brazza-Douala. SABENA 558 2206 USB wkg Brazza/ARP F350 TIVAL 2205 MIKMA. Springbok 9201 2211 USB wkg Luanda/ARP est TERBA 0034 ETA Sal 0515 F350. Zimbabwe 724 2215 USB EF-CH wkg Kinshasa/ARP HRE-LGW F350 est MPK 2351 departure Harare 2109 767-200ER Z-WPE. KLM 598 2231 USB EH-BK wkg Kinshasa/Selcal check. Affretair 04 2241 USB wkg Niamey/ARP AMS-HRE F370 dep AMS 1715 est DELIS 54 DC8-55F reg. Z-WMJ. Callsign is AFM. SOI 401 2223 USB wkg Kinshasa/est TALAT 2220 Cairo-Lusaka reg. 5X-JON ETA 0005. Swissair 287 2228 USB wkg Kinshasa/ARP KGI F350. Air Afrique 234 2233 USB wkg NDJ/ARP RULDO 30 F350 o/h FL 2318. Springbok 264 2106 USB wkg Kinshasa/ARP BUGRO 08 F310 ETA MUC 0634 747-200 ZS-SAP. KLM 598 2134 USB wkg Brazza/ARP F310 reg. PH-BFP 747-400. Springbok 264 2236 USB wkg Brazza/ARP CF 2246 BT 2316 F310, 747-200 reg. ZS-SAP enrt JNB-MUC. Lufthansa 573 2326 USB wkg Brazza/ARP ONUDA F350. AGAR 94 1350 USB wkg HNL/at 133E req hold for two hrs 150 mis from 22.7S at F330, thanks to Sirsteve for the ID. MXX708 2115 USB wkg Kano clred to F370 reg. 5N-MXX (TO)

8904 GOOSE 03 1401 USB in comms w/Honolulu, told to call Naha radio on 4666 usb. Air Mike 910C 1945 USB w/Port Moresby radio. Guam to Sydney via Brisbane. Niugini 10 1954 USB w/Port Moresby radio. (SB)

8905 AGAR 94 1349 USB in comms w/Honolulu, req 2hrs holding in a 150 mile orbit. (SB)

8906 PLATE 10 (C-130H 130 AS, West Virginia ANG) 1851 USB wkg Santa Maria,

40n 30w 1919 fl290, 41n 20w 2027, 42n 15w 2100. Req. other route: 3925n 20w - 3740n 10w - Rota, diplomatic clearance is DESERT CALM. Cleared as per req, destination Moron. I have this listed as the above ANG unit, fl290 is abt the max altitude for a Herk. The diplo stuff is somewhat unusual for a normal ANG C-130 to Moron. (BH) Air France 001 (DG-KM) 1401 USB wkg NY for selcal check (JC4) Air Europe 782 1957 USB CS-HP wkg NY/Selcal check and req BDA wx. Speedbird 265 1959 USB BD-FL wkg NY/ARP 27N60W F350. Lauda Italy 941 1951 USB DH-BC wkg NY/at F390 and selcal check. REACH 500 1940 USB FJ-BM wkg SM/ARP 41N40W F370 MIKE-Flores fwd to ATN. KING 74 1952 USB wkg NY/ARP 4105N65W F200 POGGO-SAILE. Air Europe 716 2121 USB AE-JR wkg NY/ARP KOHOE F350. CROWN 95 2145 USB wkg SM/ARP 3830N40W F230. United 910 2233 USB AG-ER wkg NY/Selcal check on the ground at IAD. United 946 2235 USB JP-DH wkg NY/in the neighborhood for a selcal check :-). CNA-OM 2114 USB wkg NY w/ARP 43N65W F370 Moroccan AF C130. Austrian 3336 2234 USB GR-EF wkg NY w/ARP WATRS F330. Condor 109 2237 USB BL-CD wkg NY w/ARP GRANN F290 Puerto Plata-STR. (TO)

8909 Indian Aero Radio's 1340 USB Madras, Bombay, Bangalore India all loud & clear, no a/c understood due to the very strong Indian accent's, sound's like low level a/c. (SB)

8918 Fine Air Cargo 364 0611 USB wkg Panama w/ARP CIGAR F310 ARNEL Grand Cayman. Fedex 304 2110 USB wkg NY w/ARP 200 mis out of Taboga VOR. (TO)

8929 Sobelair 3344 2145 USB wkg Stockholm LDOC/att QSY off freq, he wandered to 8936 then 8929 then 5540. (TO)

8930 TOWER 9291 1126 USB wkg Stockholm, pp Tower dispatch, JFK: req. Milan wx, ground handler's name & frequency: Corsair, 119.0. Latest posn: DETNA 1115, fuel remaining 99.7. (BH) Johannesburg LDOC 2157 USB clg Springbok 235. No joy. (DHM2) Pakistan 061 1927 USB clg Karachi no joy (JC4) Viking 217: 23 Dec.95 1500 USB wkg Stockholm Radio, SelCal Check EJCK. (RC) World 116 2151 USB CM-BD wkg Stockholm LDOC/ARP Luxor 44 F330 ETA Dhahran 2340. EL-AKU 2201 USB wkg Stockholm LDOC, req selcal ck QSY 10165 then back to 8930 no joy, posn o/h Niamey. Delta 119 1359 USB JM-EF wkg Stockholm R. LDOC/ARP GUNSO F310. (TO)

8933 Springbok 257 2212 USB wkg Johannesburg LDOC ops normal. Springbok 272 2307 USB wkg Johannesburg LDOC w/ARP. Springbok 239 2307 USB wkg Johannesburg LDOC w/ARP. Springbok 241 2308 USB wkg Johannesburg LDOC w/ARP. Jamba 001 2316 USB wkg Johannesburg LDOC w/ARP. C/s of Alliance. Springbok 224 2200 USB wkg Johannesburg LDOC w/ARP. Springbok 6221 2213 USB Johannesburg LDOC. All SA callsigns beginning with 6### are cargo flights. (PI) American 744 1934 USB 07Jan96 pp American Dispatch v/ NY ARINC to report near miss (approx. 1 mile separation) w/yellow-tailed 757 or 767 a/c over Caribbean; originally asked NY Radio on 11396 for pp; was told to QSY 11342 pri/8933 backup. (RJL) Springbok 256 0208 USB wkg Springbok LDOC/w/ETA ZRH 0520. United 990 0604 USB wkg Cedar Rapids LDOC/ARP LINDA F350. Springbok 232 2157 USB wkg Springbok R. LDOC/ops normal F310. Springbok 239 2212 USB wkg JNB LDOC/ops normal F330 ETA JNB 0708. Springbok 6221 2300 USB wkg JNB LDOC/ops normal at KIRMI F370, 747-200CF ZS-SAR Stansted-JNB. Air France Special 4014 2123 USB wkg NY ARINC/req'd pp to AF Dispatch CDG; in pp IDs as COTAM 4014. Springbok 3281 2128 USB wkg JNB LDOC/ETA JNB 0230. Springbok 203 2353 USB wkg JNB LDOC/ops normal at 25S05W F310. Springbok 280 2131 USB wkg JNB LDOC/ops normal 32S50E 35 F330. (TO)

8936 OBI101 2012 USB wkg Berna R. LDOC/pp w/Real Aviation Flight Ops, discussing the need to use the OBI c/s in order to gain overflight permission to Algeria and Yemen. (TO)

8942 BAW 10 1355 USB wkg Singapore Bangkok - London LHR FL310 to 125.5. DLH 745 1410 USB wkg Hongkong Bangkok - Frankfurt In VHF contact w/HoChiMinh. JAL 711 1410 USB wkg Singapore DREG MD1 JA8581 Tokyo - Singapore, FL350. JAL 745 1415 USB wkg Hongkong pos. ANINA. MAS 2626 1405 USB wkg Singapore FL330. QFA 28 1415 USB wkg Manila Hong Kong - Sydney, FL350 to VHF 125.9. THA 982 1415 USB wkg Singapore FL350 to 125.5 Bangkok control. UAL 897 1400 USB wkg Singapore Tokyo - Taipei, FL310 MAARI to 2598. Singapore relayed to Manila. (HW) Manila Radio 1151 USB Selcaling SQ 6 over and over. All Nippon 111 1155 USB wkg Manila/ARP est TESSY? 1206. Philippines 104 1155 USB wkg Manila/req if Manila has direct QSY w/Guam. Dynasty 668 1157 USB wkg

Hong Kong/ARP 13309 secondary. Cathay 716 1206 USB AF-BE wkg HKG/ARP & Selcal ck. N388MM 1208 USB wkg HKG/ARP TUNIR. Aeroflot 9351 1209 USB wkg HKG/ARP MARTA F310 TUNIR 1225. Speedbird 009 1214 USB wkg Singapore/ARP next call MINOX?. Singapore 809 1140 USB wkg Hong Kong/ARP F350 no details decipherable. Lufthansa 744 1141 USB wkg Hong Kong/ARP BKK-Manila 747 no details. Singapore 801 1143 USB wkg Hong Kong/ARP no details copied. Air China 957 1149 USB wkg Hong Kong/ARP just too weak to comprehend the posns. Tried selcal for at least one min w/this flt!. Singapore 801 1226 USB wkg Singapore/ARP & higher not available. Singapore 805 1205 USB wkg Hong Kong/ARP the whole Singapore to China. Singapore R. 1216 USB Attempting to QSY w/Malaysia 501 no joy. Singapore 71 1228 USB wkg Singapore/unable higher due tfc. Philippines 656 2250 USB BC-FL wkg Hong Kong/ARP w/selcal readable. Kuwait 418 2254 USB wkg Kuala Lumpur/ARP posns unreadable. (TO)

8948 BOMBAY RADIO, IND 1221 USB clg Thai Intl flt. (EW)

8949 Harare LDOC 0556 USB wkg AFM05 re Captain's work sked for coming week. (TO)

8957 Unid 2220 USB Caught tail-end of SS tfc w/exchange of aero wx details, but no IDs before going off. This is a domestic Bolivian airport frequency. (DHM)

8960 Heavylift 884 2152 USB wkg Portishead R. LDOC reg. RA-82042 An-142 w/dep. msg. 5N-EEO 2059 USB wkg Portishead LDOC w/pp to comp ops re engine trouble (TO)

9180 Arequipa 1156 USB called Lima (Peru), no joy. Tried again at 1159, then tfc. Peruvian airport #16 here. Lima 1203 called Ayacucho, but no joy. Peruvian Aeros 1205-1215 USB very weak tfc between several stns. Details of flights between Lima & Ayacucho, Lima & Arequipa, & (I think) Lima & Ica. No definite IDs, but appears to be a primary southern Peru frequency. Curiously, 8896.5 w/northern Peruvians was in very strong at the same time. Thanks to the veri-signer at Pucallpa Aeradio for giving me this other Peruvian aero freq. Now need to ID some stns on it! (DHM)

10024 Guayaquil ATC 2243 USB Clg Lima, no joy. Resistencia ATC Argentina 2245 USB called Cordoba, no joy, then called La Paz, Bolivia, which answered. Very weak w/ QRM from Guayaquil. LAN CHILE #1165 2247 USB tfc w/Guayaquil. (DHM)

10024 N911KM 2310 USB wkg Bogota/ARP F350 QSY 125.1. KLM 751 2313 USB wkg Lima/ARP PABAM est TAP 2336. (TO)

10066 India 426 1034 USB wkg Calcutta for ARP (JC4) Kathmandu R. NEPAL 1034 USB clg Calcutta (JC4) Saudia 3864 1017 USB wkg Calcutta R. Aeroflot 552 1120 USB wkg Calcutta, BKK-SVO F280 est Dhaka 1115. Dhaka R. 1017 USB wkg Yangon R. MYANMAR w/tfc rpt. LTU 768 (GS-KR) 0915 USB wkg Yangon R. (JC4) Cathay 007 1235 USB wkg Calcutta, req F350, QSY 133.2. (TO)

11282 San Francisco Radio 15Dec.95 1800 USB att to raise United 810, it turned out that a/c & another F?? 828 had the same selcall, to avoid confusion the controller moved UA 810 to 13,288 Mhz. (WC)

11285 FOXTROT 7 1105 USB clg PERTH RADIO. MADRAS RADIO, INDIA 1112 USB clg Singapore 7385 re flt info. (EW)

11288 Unid: Dec.12,95 USB 0646 commercial tfc in EE & AA w/males, mention of callsign of "Zero-Zero-Zero" and "Zero-zero -Four". "Kapitan Ali...unreadable!" "What quantity?" 0649 "Zero -zero-four - Gedar Gdansk" heard several times but no reply.Anybody got any ideas? (RH) [prob Rockwell LDOC wkg Saudi 00x flights w/pp tfc to Jeddah -RD]

11300 INDIA 305 0908 USB Cairo (Il.38, Indian Navy ??) fl220 eta Cairo 1315, entering Cairo FIR at kombe 1200. India has a Il.38 registered "305", & they are known to use serial as callsign often. Cairo is a more or less regular destination for the Indian Navy; Dutch aviation magazine Scramble reported an Indian Navy Tu.142 Bear heading for Cairo recently. If this speculation turns out to be right this was my first ever military Indian log! (BH) 5YTWA 1335 USB wkg Nairobi Req Nairobi wx. AHR 056 1240 USB wkg Cairo Nairobi - Athens, From Nairobi to Athens. ATC 768 1555 USB wkg Nairobi Switching to 7595. Very weak and unreadable. AZA 806 1240 USB wkg Cairo JSCD, Rome, Nairobi B767 from Rome to Nairobi FL370 SML. AZA 820 1335 USB wkg Cairo SML. BAW 67 1545 USB wkg Khartoum London LHR - Nairobi, SML MRW. DLH 8536 1545 USB wkg Cairo Frankfurt - Addis Ababa, DC-8 from

Frankfurt to Addis Ababa. KLM 569 1410 USB wkg Khartoum Dar es Salam - Amsterdam, SML FL330 NUBAR. MAU 060 1305 USB wkg Cairo SML. (HW) Balair 123: 17 Dec.95 USB wkg Tripoli, departed HKMO (Mombasa, Kenya) Dest LSZH (Zurich) Aircraft HB-IPM A310. (RC)

11306 American 923 0540 USB LP-MQ wkg Lima FS LDOC/ARP o/h Kingston 41 F370 enrt La Paz. American 2101 0523 USB wkg Lima FS/ARP Grand Cayman F330. American 923 0523 USB CQ-LP wkg Lima FS/ARP VAGAN F370 selcal check. American 2111 0639 USB wkg Lima FS/ARP Aurora F330. (TO)

11309 Sunwing 9909 1436 USB EG-BR wkg NY/ARP 35N40W F350. NRN 356 1949 USB wkg NY/ARP 22N55W F240. 5N-FGP 2006 USB wkg NY/ARP 29N60W F430 .80, Gulfstream 4 of the Gov't of the Fed. Rep. of Nigeria. AOM 8375 1949 USB AG-FH wkg NY/ARP 38N30W F330. Liberte 832 2011 USB BL-FG wkg NY/ARP 30N40W F350 (TO)

11342 DHL 525 1644 USB wkg NY ARINC at Aruba w/arr. msg (TO)

11345 VR-CVD: 17 Dec.95 1435 USB wkg Stockholm, landing conditions for French airfields. (RC) American 149 Dec.6,95 0955 USB clg Stockholm Radio w/selcall ck. (RH) EC-FFK 1516 USB wkg Stockholm R. Air Europa flight w/ops (TO)

11366 VARIG LDOC Rio de Janeiro 1150 USB Wkg VARIG 191 dep. Porto Alegre 1130/38 ETA Curitiba 1220. 737-300 reg. PP-VNZ (FLF) VARIG 890 0926 USB wkg Belem VARIG LDOC/ARP VAGAN 0920 ETA MIA 1300, DC-10-30 PP-VMY (TO)

11384 N192PA: 0553 USB w/Honolulu radio, To Guam?, Ex PAN AM by any chance? QF-70: 0555 USB w/Honolulu radio, Narita to Perth, to cross 08 north at FL-330. QF-69: 0556 USB w/Honolulu radio, Cairns to Narita, Airway A-216 HOKEY (10.01n 142.44e) the inbound point for the GUAM AIDZ, Airway B-586 OWLSS (17.33n 143.41e) the outbound point for the GUAM AIDZ. JAPAN AIR-776 0629 USB w/Honolulu radio, Cairns to Narita, GHBJ, JA-8131, 747.200 1-1/2 hours late! UNITED-860 0631 USB w/Honolulu radio, "unable higher". QF-177: 0633 USB w/Honolulu radio, Sydney to Seoul. Ansett-881, 0643 USB w/Honolulu radio, Sydney to Narita 747.300. QF-59: 0656 USB w/Honolulu radio, Cairns to Nagoya. (SB)

11387 Sydney VOLMET 0901 USB Aero wx for Townsville and others (TO)

11396 AAR 175 1455 USB wkg Udjung FL370 to 3470 primary. SMP 862 1450 USB wkg Udjung GMCK 300 PK-JIA Jakarta - Udjung From Jakarta to Udjung Pandang (first SMP for me ever!). (HW) Speedbird 010 (BP-AM) 1025 USB wkg Jakarta R. w/ARP (JC4) Perth R. 1025 USB wkg Bali R. (JC4) Sobelair 1881 CF-ES 1909 USB Selcal check-New York (PI) New York: 2133 USB (CAR-A MWARA) wkg N270MC w/posn, selcal ck, DH-JM. (RB) Speedbird-12: 1115 USB w/Perth radio, Sydney to London via Perth, Airway G337, next Christmas Island. QF-140: 1120 USB w/Perth radio. Cathay-789: 1120 USB w/Jakarta radio. Corseair-959: 1122 USB w/Jakarta radio, GMDJ, F-GFUH 737.400. QF-27: 0426 USB w/Jakarta radio, Sydney to Hong Kong, QRAB, VH-OJO 747.400. (SB) Indonesia 879 1120 USB wkg Perth/tfc alert re: QF flight. N1000 1946 USB wkg Panama/ARP F430. American 104 1947 USB AM-JQ wkg NY/ARP KRAFT F350 as though AA has indeed moved quite a few 727-200's back onto the Caribbean routes. American 1242 1500 USB GH-BC wkg NY/Selcal check. USAir 1041 2052 USB BR-LS wkg NY for selcal check (TO)

13261 UNITED-862 0400 USB w/Nadi radio, Sydney to Honolulu, on airway B580, POXAK (164.41e/23.26s), LTO (Noumea) PULON (20.29s/167.35e). AIRCAL 111 0404 USB w/Brisbane radio, Melbourne to Noumea, on airway B580, TABAL (28.15s/159.10e), VESUN (24.58s/163.00e), POXAK (23.26s/ 164.41e), LTO (noumea). (SB)

13282 JMA Tokyo USB 0545 w/Volmet wx report (AW)

13285 Beijing Volmet USB 0540 w/EE wx report (AW)

13294 SOI 401 2237 USB wkg Kinshasa/told to QSY 8913. (TO)

13306 JQA02: 24 Nov.95 1915 USB wkg New York, req wx MDSD=Santo Domingo, Dominican Rep. JQA=Trans-Jamaican A/L. (RC) Speedbird 163 1610 USB DH-CJ wkg NY/Selcal check and req F350. Leisure 703 1611 USB CR-ES wkg NY/Selcal check. REACH 42365 1635 USB wkg NY/ARP 42N60W F270 42N55W 43N50W. Angola 701 1719 USB wkg NY for ARP Havana-Sal F270 (TO)

13330 DHL 509 1945 USB wkg NY ARINC/pp w/company ops (TO)

17904 Boeing 77712 USB 0055 clg/wkg Honolulu.Posrep and selcal (AW) Air Mike 957 (DH-BC) 0612 USB wkg Honolulu e/r Truk-Guam (JC4) NZ-81: 0422 USB w/Honolulu radio. Air Mike-957 0422 USB w/Honolulu radio, to

Ponapei. All Nippon-914 0424 USB w/Honolulu radio, Sydney to Narita. Qf-177: 0426 USB w/Honolulu radio, Sydney to Seoul, JMEH VH-EBT 747.300. NZ-33: 0509 USB w/Honolulu radio, Auckland to Narita. QF-13: 0514 USB w/Honolulu radio. Air Mike-916 0515 USB w/Honolulu radio, to Saipan. QF-22: 0553 USB w/Honolulu radio, FL-330 Narita to Sydney. (SB)

17937 American 989 1646 USB wkg Lima flight Support LDOC w/ARP F290. American 916 1646 USB AM-BQ Wkg Lima FS for selcal check. (TO)

17977 JJA? 1102 USB clg Scheffield? Ops or something like that, no joy. (JF) [unid JJL LDOC heard here before -RD]

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot.

111.8 PRAGUE MET (OLT21) 0851 FAX 120/576/N/300 Two small chartlets. (DW)

117.4 OFFENBACH MET (DCF37) 1216 FAX 120/576/N/300 N Atlantic upper air chart. (DW)

134.2 OFFENBACH MET (DCF54) 1954 FAX 120/576/N/300 Small chartlets, precipitation forecasts. At 1222, Trajectories, small chartlets & graphs. (DW)

140.3 DGPS station Mainflingen,D 1726 MSK 300bd This is a test site. Probably also test transmissions (AB)

144.5 RCG: Moscow Meteo, RUS 1943 FAX 90/576 ASXX 18z, fair but QRM by unid navigation system (see Utility Round-Up in WUN 12/95) (KB)

518 OST: Oostende Radio,BEL 2248 FEC Navtex. GNI: Nito Radio,G 0018 FEC Navtex. CROSS Ile d'Ouessant,F 0001 FEC Navtex (AB) CORSEN (CROSS) [A] 2000 FEC w/Nav warnings, Wx forecast. CULLERCOATS [G] 2000 FEC w/Wx forecast, nav warnings w/Gale warning. FINISTERRE [D] 2000 FEC w/Nav warnings. GISLOVSHAMMER [J] 2000 FEC w/Wx forecast. LAS PALMAS [I] 2000 FEC w/Wx from Madrid for Spanish coastal areas San Vincente, Cadiz, Sahara, Canaries. MONSANTO [R] 2000 FEC w/Nav warnings. NETHERLANDS CG [P] 2000 FEC w/Gale warnings. NITON [S] 2000 FEC w/Shipping forecast, nav wngs, Gale warnings. OOSTENDE [T] 2000 FEC w/Nav warnings. PORTPATRICK [O] 2000 FEC w/Nav warnings. REYKJAVIK [R] 2000 FEC w/Gale warning, Wx forecast. ROGALAND [L] 2000 FEC w/Wx & gale warnings. ST JOHNS [O] 2000 FEC w/Gale warnings. STAVSNAIS [U] 2000 FEC w/Nav warnings. TOULON (CROSS) [W] 2000 FEC w/Wx forecast(?), Nav warnings. CROSS OUESSANT [A] 1950 FEC w/Nav warnings. CROSS TOULON [W] 1946 FEC w/Nav warnings. CULLERCOATS RADIO [G] 2048 FEC w/Wx forecast, Nav warnings. Same at 2211 FEC Gale warnings. At 2300 w/Gale warning, Nav warnings. GISLOVSHAMMER RADIO [J] 1930 FEC Controlled by Stockholm, missing vsl report, Nav warnings (sourced Lyngby, Stockholm. Ruegen), Swedish area EE/wx. GISLOVSHAMMER [J] 2300 FEC w/Nav warnings. KERKYRA [K] 2300 FEC Nav warning. LA GARDE (CROSS) [W] 2300 FEC w/Nav warnings. MALTA RADIO [O] 2300 FEC Nav warnings. MONSANTO RADIO [R] 2253 FEC Nav warnings. NETHERLANDS CG [P] 2300 FEC w/Nav warnings. NITON RADIO [S] 1907 FEC Mayday alert Concord/J81R9 nature of distress unk, Yarmouth CG coordinating, Posn 53.18N/00.051E & 52.11N/01.054W. NITON RADIO [S] 2018 FEC w/Wx forecast, Nav warnings, at 2217 FEC w/Gale warnings. OOSTENDE RADIO [T] 2249 FEC Nav warnings then qrm5 from Monsanto. PN HORTA [F] 2055 FEC Wx forecast, Fades in as Cullercoats fades out. PORTPATRICK RADIO [O] 2223 FEC Gale warnings. REYKJAVIK RADIO [R] 2247 FEC Start of transmission till qrm5 fm Portpatrick. ROGALAND RADIO [L] 2154 FEC Gale warnings. ST JOHNS RADIO [O] 2236 FEC Loran advisory, Ice warning. STAVSNAIS [U] 2300 FEC Nav warning. USCG SAN JUAN [R] 2300 FEC Nav warnings, Wx forecast. (DW) EFA: Finisterre N Spain 1745 FEC ID Letter D. VCO: Sydney NS Canada 0240 FEC ID Letter Q. St Johns NS Canada 0300 FEC ID Letter O. UGE: Archangelsk CIS 0500 FEC ID Letter F. Las Palmas Canaries FEC Letter I. (GD2) EAF: 0030 FEC Navtex trial from MRSC LaCoruna Spain. TX located at Finisterre, wx in EE then SS followed by EE msg about trial. (KB2) [nice trans-Atlantic snag! -RD] NMG: 0716 FEC USCG CommSta New Orleans, La USA w/NavTex Code "G" w/Broadcast Notice to Mariners (BNG). VAU: 0720 FEC CCG Yarmouth, CAN NavTex Code "U" w/Enviroment Canada Marine Forecasts in EE. VAU: 0735 FEC CCG Yarmouth, CAN NavTex Code "V"

w/Situation Maritime Pour les Provinces FF wx. VFN: 0740 FEC CCG Montreal, CAN NavTex Code "W" w/Notship (Notice to Shipping) tfc in EE. VFN: 0755 FEC CCG Montreal, CAN NavTex Code "T" w/Notships (Notice to Shipping) tfc for Great Lakes in FF. NMA: 0800 FEC USCG Miami, Fl remoted from NMN, although NMA still shown as source code for NavTex Code "A", CommSta Miami closed a few years back. NavTex info to 0820. VCK: 0820 FEC CCG Sept Isles, PQ, CA Navtex Code "C" in EE. VCK: 0834 FEC CCG Sept Isles, PQ, CA Navtex Code "D" in FF. NMF: 0845 FEC USCG CommSta Boston,Ma Navtex Code "F" w/wx. NMN: 0930 FEC USCG CAMSLANT Chesapeake, Code "N" w/wx, info. VBA: 1030 FEC CCG Thunder Bay, Ont, Navtex Code "P" w/Enviroment Canada Great Lakes Marine Forecast. VCO: 1039 FEC CCG Sydney, NS, CAN Navtex Code "Q" w/Enviroment Canada Marine Forecast. NMG: 1100 FEC USCG CommSta New Orleans, La w/NavTex Code "G" w/wx. VBC: 1310 FEC CCG Wiarton, ONT, CAN NavTex Code "H" w/NotShip's for Detroit River. (RB) VRX: Hong Kong Radio, HK 0209 FEC w/gunnery notice for Taiwan Straight. XSQ: Guangzhou Radio, CHN 1410 FEC w/"GUANGZHOU OBSY WEATHER REPORT = NO WARNING =". XSG: Shanghai Radio, CHN 0640 Code "Q" NavTex w/Nav Warnings. JNB: Naha Radio, J 1517 FEC NavTex code "G" "VITAL WARNING FOR NAHA NAVTEX AREA". JNR: Moji Radio, J 1517 FEC NavTex code "H" w/same. JGC: Yokohama Radio, J 1517 FEC NavTex code "I", w/same. JNX: Kushiro Radio, J 1517 FEC NavTex code "K", w/warnings. JNL: Otaru Radio, J 1200 FEC NavTex Code "J", w/warnings. (TK)

524 Unid 2250 ??? 75bd. Unid 2126 UNID 75bd (AB)

1801 DGPS station ? 2141 MSK 100bd (AB)

1851 DGPS station ? 2144 MSK 100bd (AB)

1871.5 P3NO4: mv MSC Jade 2239 ARQ w/Oostende Radio on 2815.5 kHz (AB)

1944 DGPS station ? 2143 MSK 100bd (AB)

1975 DGPS station, Aberdeen,G 2350 MSK 300bd DGPS data (AB)

2021 DGPS station ? 2145 MSK 100bd (AB)

2043 GERMAN CG SHIPS 0737 ARQ irs mode then "fo x+?" & signoff. At 0800, German Fisheries protection vessel "Seefalke/DBFO" & ,,mer"" clg Cuxhaven selcal QDPT. Posn reports. At 2053, Selcals QDPT, on net to Cuxhaven who is on another freq (unid). Fisheries prot vsl "Seefalke" & ,,mer"" with posn reports. At 2030, SHIP "SEEFALKE" selcals QDPT, "Guten abend om Seefalke 54.20N NE 5-6 kontrollfahrt das ist fuer heute ales om gw tschuess 73 +?. Part of German CG as selcal is not recognized commercial coaststation. (DW)

2147 UNID. "GLEN ?" 2307 ARQ Tfc re stores, could be fishing vsl "think fish gone on holidays". (DW)

2187.3 Unid 2030 ARQ-M2 200b. (JK)

2187.5 GMDSS CHANNEL 2057 GMDSS 100/170 10 packets of various types. At 1057 GMDSS 100/170 Two packets. At 0750 55 packets in all received. (DW)

2242.3 Unid 0600 AEQ-M2 200. (JK)

2246.5 MOI SPAIN NET 2255 ARQ Traffic in online encrypt. Tfc fm JECOR ALAVA. (This station first noted as an 800hz shift signal on 4493khz - 2nd harmonic). (DW)

2423.5 SAB: Goteborg Radio,S 2220 ARQ clg EAXK (AB)

2461.5 OA: Irish Navy Dublin,IRL 2330 ARQ w/3. Routine msgs (AB)

2477 LAUG4: mv Brunto 2246 ARQ w/Goteborg Radio. SZYA: mv Limon Trader 2329 ARQ Msgs via Maritex Goteborg. LYIL: mv Ostankino 2259 ARQ w/Goteborg Radio (AB)

2513 Ship channel (QSX St.Petersburg Radio) 1950 ARQ unid vessel clg St.Petersburg (KYVV) (AB)

2549 Unid (German MOI ???) 2023 ARQ-E 96bd Idling all night. (AB)

2549.2 MOI Bonn,D 2259 ARQ-E 72bd Msg to GSP Berlin (GOVHF) (AB)

2550 Unid (German MOI ???) 2023 ARQ-E 96bd Idling all night. (AB)

2650 UNHCR Pactor-U w/press & sitrep's to HCBG (UNHCR Ljubliana). (JJ2)

2716 SAB: Goteborg Radio,S 2310 ARQ Msg to mv Kupari via Maritex (AB)

2720 SAMARA MET (RDE73) 1647 FAX 60/576 Chart with plotted obs. (DW)

2740.7 DLVZ: mv Bremerhaven (customs launch) 1528 ARQ w/German CG Cuxhaven. DLVB: mv Schleswig-Holstein (customs launch) 1530 ARQ w/same. DLVD: mv Kniepsand (customs launch) 1532 ARQ w/same. (AB)

2789 FUE: French Navy Brest,F 2230 RTTY 75bd Clg FAAA (all French navy vessels) test tape (AB) FN BREST (FUE) 2251 RTTY 75/850 Marker "FAAA de FUE" sg's figs. (DW)

2813.2 Portuguese Navy 1545 RTTY 50b. (JK)

2815.5 OST: Oostende Radio,BEL 2239 ARQ w/MSC Jade on 1971.5 kHz (AB)
2834 DGPS station ? 2233 QPSK 300bd (AB)
2840.7 DLGZ: mv BG21 Bredstedt (patrol boat) 2306 ARQ w/German CG Cuxhaven. Posn report. DBIF: mv BG22 Neustrelitz (patrol boat) 2308 ARQ w/same. (AB) GERMAN CG NET 1939 ARQ Two unid stations closing qso. Op chat in German. GERMAN CG NET 0732 ARQ Selcals TMCT. GERMAN CG NET 0752 ARQ Cuxhaven ? issuing wx forecast for N Sea (qrm fm Sitor/B). Selcals QDPT. Same at 2009 ARQ Posn report from Bredstedt/DLGZ to Cuxhaven. (DW)
2842 RFFEDFA: French Army Metz (Brigafrancal Mobile),F 2010 ARQ-E 72bd Exercise. Msgs to RFFXCF Detecoltrans Deux, RFFHCFD Decoltrans Quatre, RFFGC Decoltrans Un (AB)
2842 FF TOULOUSE [RFFW] ? 1835 ARQ-E 72/400 Betas. (DW)
2892.3 GYA: Royal Navy London,G 2237 RTTY 75bd Availability msgs (AB)
3029 German CG Neustadt,D 1733 USB w/unid CG vessel. Posn report (AB)
3029.7 German CG Neustadt,D 1706 ARQ w/BG21 Bredstedt, posn report. DLVL: mv Hohwach (customs launch) 2253 ARQ w/German CG Neustadt. Posn report. (AB)
3219.5 Guardia Civil, Barcelona ARQ. (JK)
3267.5 Guardia Civil, Cadiz ARQ. (JK)
3360 KIEV MET (RPN71) 2312 FAX 90/576/N/800 Idling on black w/white dead zone. (DW)
3367.2 Unid 1700 ARQ-E 48b. (JK)
3503 FRENCH FISHING NET 0828 FEC App net French fishing vsls using Sitor/A+B. Vessels FUNGU/FNXH/FNGN/FNBD/FNXI/FNKL at 0830/0930/1030/1200/1415/1700z. Tfc encrypted (company posn & fishing quality reports?) (DW)
3542.7 GKE1: 2107 ARQ w/marker GKE1. (RC) PORTISHEAD RADIO (GKE1) 0927 FEC Marker "GKE1" & tuning burst. Recent redesignation from GNK2 but remains paired w/2574 khz. Then N/Atlantic wx from 0930z (DW)
3582.9 Unid 1900 FEC-A 144b. (JK)
3588.5 Guardia Civil, Ochagavia (nights) ARQ. (JK)
3606 UNID 2258 ARQ-E 192/170 8CRC Betas. Idling on a 7betas 1rq pattern. (DW) Unid ARQ-E3 192b 0700-1930. (JK) [unid since 4/95, has been listed as poss CID EHQ-EHR night link -RD]
3607.3 HUMBER RADIO (GKZ1) 2135 CW/SITOR Marker "GKZ1", tuning bursts. (DW)
3607.8 HEBRIDES RADIO (GHD2) 2130 CW/SITOR Marker "GHD2", tuning bursts.(DW)
3615.7 PORTISHEAD RADIO (GKY8 now GKY1)? 2138 FEC End of wx forecast. Marker "GKY8" & tuning bursts. Previously Stonehaven/GND1. qso with ships - no tfc held/qru. (DW)
3641 RFFEDFA 0530-0900 ARQ-E/72 to RFFGCFD. (JK)
3656.9 ARKHANGELSK MET (RVZ73) 2211 FAX 60/576/N/800 Chart idle until 2224z - white w/black dead zone, transmitters low, then chart w/plotted observations. (DW)
3710 SAMARA MET (RGJ61) 2231 FAX 60/576/N/800 Chart w/plotted obs. Multipath fading. (DW)
3774 Unid ARQ-E3 100b 0530-2000. (JK)
3802 ICRC Bonn, 0530 PACTOR 200b. (JK)
3810 MINSK MET (RST75) 0752 FAX 90/576/N/800 Very short notice then offair. Same at 1913 FAX 90/576/N/800 Grainy chart with plotted obs. (DW)
3830 UNHCR Zagreb 1800 PACTOR 200. (JK)
3832 Unid RFFBBYZ: 1930 ARQ-M2 200/360 w/5LG tfc to RFFVAY, Sarajevo, via "PVX" circuit. (PT) [Ary sez this is French Forces in Bosnia -RD]
3832.7 FF PARIS [RFFA] ? 2040 ARQ/342//200/E/800 4CRC. 2 channels. Ch:A cct [FDX] then [PVX] ??. RFFVAY de RFFBBYS offline encrypted tfc. Ch:B cct [FDX] and [PVX] for single msg?RFFVAY de RFFTA air tfc fm EDAF (Rein-Main AB). (DW) Unid ARQ-M2 200b 24h a day. (JK) [Logged in past as RFFP MoD Paris -RD]
3850 ADDIS ABABA AIR (ETD3) 2218 RTTY 50/R/400 Aero traffic. Cct ID not clear - [VTA] or [VHA] (DW) Same at 2236 RTTY 50/R/400 Air tfc. Cct [VTA]. Tfc addressed HAAS/Asmara and HAAZ/???. (DW)
3922 Unid 1155 ARQ-E 85b msgs are encrypted. (HS)
3922.5 UNID. 0730 ARQ-E 85.I/170 All day monitor to disc. 4CRC. Full flow online encryption. (DW)
3931 BPXL 1930 RTTY 50Bd/413Hz RY-string and codetfc from unid-station in Tunis. (JJ2)
4016 Navmarcormars sta. NNN0HPQ 0040 PACKET w/MARSnews to NNN0GAD. (RM)

4020 Unid POL-ARQ 50Bd/246Hz from Stetin (Poland) w/coded-msg's. (JJ2)
4084 VDD, CAN mil., Debert, NS 0030 RTTY 75/170 w/all VFT channels encrypted on link to Australia. (RM)
4090 UNHCR 1920 Pactor-U w/press & sitrep messages. (JJ2)
4173.5 mv TH Sumy 2148 ARQ Msgs to various Russian addressees (AB) [UVYH -RD] mv TH Usole 2005 ARQ w/Mariupol Radio (AB) [UEBV -RD] UNID SS EWA 0425 ARQ W/TLX RE: COMPUTER PROBLEMS. MATSON SHIP L.A. TO SEATTLE. (WT) [c/s WEZM, ex-President Tyler -RD]
4175 ELQX6: 0635 ARQ M/S Century, Celebrity Cruises newest cruiseship, w/svc tfc to WLO. (RB) 9HNG3 M/V KONAVLE 0230 ARQ CHECK IN, QRU. LOGIN: 13647 CCAR. (WT)
4176.5 HO2127: mv Livia 1518 ARQ Msgs to Vertom Rotterdam (AB)
4177 SQEE: MV Kopalnia Zofiowka 0655 ARQ listing of cargo re. storage of ferrosulphate & ferrochrome. (MR2) 3FXI3 M/T HERO 0715 ARQ W/AMVER TFC, CORPUS CHRISTI TO PUERTO LA CRUZ. LOGIN: 42364 HERO. (WT)
4178 ELPH8: mv Ventspils 2133 ARQ Msgs to various Baltic addressees (AB)
4178.5 UDUE: Yenisei 1453 ARQ one msg for Switzerland via KPH. (AB2) KDBG: 0742 ARQ M/V President Lincoln w/SVC+ tlx to KPH. (RB) P3UQ2 M/V Ptolemeos 0056 ARQ w/tlx to Athens. login: 00536 P3UQ2. P3SD2 Diomedes 0607 ARQ rx only, login: 00575 P3SD2. C6FA2 MT Samuel H. Armacost 0613 ARQ w/BBXX, login: 69000 ARMA. BROR MV BA DA LING 0714 ARQ w/msgs in 4Fig Gps. login: 20165 BROR. BRQE M/V YU LONG SHAN 0526 ARQ W/TLX, LOGIN: 09711 BRQE. (WT)
4179 DGAE: mv Annette Essberger 2234 ARQ Msgs (AB)
4179.5 9HXH4: mv Aleksandr Sibiryakov 2215 ARQ Msgs (AB) PGDD: 0727 ARQ M/V Nedlloyd Delft w/tlx tfc in Dutch. (RB)
4202.5 UVHA: 2151 RTTY RTMKS Vasiliy Lozovskiy, in 50/170 RYRY/DE to UIW, & w/admin TG's to Murmansk Tralflot using hull#/ID MA-1823 for ETA Hamburg. (RB)
4203.5 C6BP9: 0542 ARQ M/V Forest Hills w/tlx for dischg report, Genoa, login 29496 FHILS (RB)
4204.5 UNOF: 2143 RTTY RTMS Aleksey Grachyev in 50/170 crew TG's, apparently is Ex-LYEQ. (RB)
4211 PORTISHEAD RADIO (GKE2) 0934 FEC N/Atlantic wx, alternating tones then return to marker "GKE2" & tuning burst. (DW)
4213 VIP, Perth, AUS 1154 ARQ w/CW marker. (EW)
4215.5 LYNGBY RADIO (OXZ) 0831 FEC Danish ship press. QRM fm HEC. (DW)
4219.5 UNID. 0715 GMDSS 100/- Coast station DSC frequency. One packet (? Noise burst) giving. "Format Specifier: Error: No valid clg mode." (DW)
4268.6 GOETEBORG RADIO (SAB23) 1701 FEC Swedish ship press. (DW)
4271 CF HALIFAX (CFH) 0015 FAX 120/576/N/800 Ice chart. CF HALIFAX (CFH) 2249 RTTY 75/600 Met traffic. QRM fm (female) numbers station. Same at 2351 RTTY 75/600 Wx forecasts in cryptic English. (DW) CFH: CF HALIFAX NS, CAN 0147 RTTY 75/850 wx rpt & meteo (bbxx). (SS)
4295 HWN: FN PARIS, F 0130 RTTY 75/850 RYs/SGs/DE HWN (SS)
4343 WLO 1235 FEC Wx Product Announcement, Solar report, tfc list. (EC1)
4346 NMC 1200 FAX 120/576 COMMSTA Point Reyes, CA. (EC1)
4447.5 ROME MET (IMB51) 1720 FAX 120/576/N/800 Small chartlets for upper air over Europe. (DW)
4489 BRACKNELL MET (GFL26) 1252 RTTY 75/N/400 Met traffic. (DW) GFL26, Bracknell Meteo, G 0149 RTTY 75/400 w/wx. (RM)
4492 RFFGCFC: (Mulhouse?), F 1700 ARQ-E 72/410 Exactly the same msg as 5453 KHZ at 1550. (PT)
4562.5 Guardia Civil Barcelona ARQ. (JK)
4570 HZN46, Jeddah Meteo, ARS 0150 RTTY 100/850 w/wx. (RM)
4583 HAMBURG MET (DDK2) 1725 RTTY 50/N/400 Met traffic. Same at 0854, Wx in German. Same at 1246/1848, Met tfc. (DW)
4601.5 OA: Irish Navy, Dublin, Eire 1053 ARQ/FEC wkg "44" & "48". Says "48 USING FEC AS THEY ARE ON FLYING STNS U.F.N." (Whatever that means). (PT) [STNS is Stations, & I'd guess U.F.N. is Until Further Notice -RD] OA: Irish military Dublin,IRL 1543 ARQ w/11. Routine msgs (AB) Irish Navy, Cork ARQ eves. (JK)
4632.2 USN SIGONELLA (NSY) 1904 FAX 120/576/800 European/Mediterranean chart. Fuzzy. Little or no detail. (DW)
4643.3 Unid. w/encryption 0153 RTTY 100/850. (RM)
4707.2 FF SAREJEVO [RFFVAY] 1954 ARQ-342 192/400 4CRC. 2 channels. Both betas. Ch:a cct [FKWA] svc to RFFVA zicFKWA 019/019 zid FDXA 036/036

Ch:B cct [FKWB] svc to RFFVA zid FDXB 069 zic FKWB 047. (DW)
4711.3 Unid. w/encryption 0154 RTTY 75/850. (RM)
4768.0 Unid. w/encryption 0155 RTTY 75/175. (RM)
4788 DAKAR MET (6VU23) 2235 RTTY 50/N/400 AAXX originated by DIAP (Abidjan/ Port Bouet) w/all station (Ivory Coast - 655xx) data given as "tests". Then marker "cq de 6VU23/73/79" and ry's. Freq 410hz high & often unstable. (DW)
4810.4 Unid. w/encryption 0156 RTTY 100/850. (RM)
4855 NPM, USN, Pearl Harbor, HI 0156 120/576 w/wx chart. (RM)
4962 MFA Warsaw fm Minsk 1900 POL-ARQ 100b. (JK)
5024.9 MOI Bonn, Stuttgart 1100 ARQ-E 96b. (JK)
5049.2 PSP NET 0840 ARQ End of qso. Tfc fm VXVV 20026 cdprt to comgerpsp. SelcalsVVES VVEX VVOC. (DW)
5055 JFY6 Amman Jordan 1841 RTTY 50/425 PETRA Nx. (CC)
5097.3 CFH, CF, Halifax, NS 0159 RTTY 75/850 w/NAWS freq. list. (RM)
5099.1 RN LONDON (GXQ) 1622 - 5099.195. Chan H in VFT. Idle on space. (DW)
5099.3 RN LONDON (GXQ) 1612 ARQ-342 96/E40 5099.365. Chan G in VFT. 4CRC. 2 chan. Ch.A: met traffic.Ch.B: idling alphas. (DW)
5099.6 RFTJ 0450 ARQ-E3 192/400 Dakar, Controle de voie, C. I. ="AFL". (ED)
5099.8 RN LONDON (GXQ) 1551 ARQ-342 96/E40 5099.875. Chan F in vft. 8CRC. 2 chan. Chan A: idling on figsshift/LF's. Chan B: idling on # and betas. (DW)
5100 RN LONDON (GXQ) 1528 ARQ-342 96/E40 5100.045. Chan E in VFT. 2 chan. Both idling betas. Ch B: Cct[ANO] CH svc de RUD at 1540z. Bulletin to EGZMCBSA (?) fromEGGN (UK NOF). (DW) GXQ: 1130 VFT signal including two 75 baud RTTY channels sending encrypted tfc and two 96 baud ARQ-M2 channels, one sending TAF's and the other sending "RUD" traffic w/flight bulletins for UK airfields (both civilian & military) All 340 shift. (PT)
5100.5 RN LONDON (GXQ) 1523 --//75/-/340 5100.555. Chan D in VFT. Online encrypted. ACF7. (DW)
5100.7 RN LONDON (GXQ) 1520 --//75/-/340 5100.725. Chan C in VFT. One line encrypted. ACF7. (DW)
5101.2 RN LONDON (GXQ) 1519 --//75/-/340 5101.235. Chan B in VFT. On line encrypted. ACF7 (DW)
5101.4 RN LONDON (GXQ) 1627 RTTY 50/N/340 5101.405. Chan A in VFT. Order wire/eng chan. Idle on mark. (DW)
5102 RN LONDON (GXQ) 1516 LSB 8 channel DCN vft on LSB (usually USB). (DW)
5150 MOSCOW MET (RVO73) 1634 FAX 90/576/N/800 RTT qrm on top. (DW)
5160 NIAMEY AIR (5UA) 2248 ARQ-342 96/400 4CRC. 2 channel. Both betas, breaks in transmission. Then numbered aero tfc on Ch:A. Cct ID [NUA]. svc msgs fm Niamey[DRRR] to Cotonou[DBBB] refers rtrn serials w/ID [UNAxxx]. Ch:B met tfc (DW)
5207.3 AAT3TPA: Army MARS sta. in Penn 2050 PACKET w/msgs to AAR3CB. (RM)
5216.7 Spanish Air Force ARQ duplex with 5851.7. (JK)
5221.5 CONOTOU AIR (TYE) 2320 ARQ-342 96/400 4CRC. 2 Channel. Ch:A cct [UNA] (to Niamey) svc CH de TYE. Thenair tfc. Ch:B svc CH de TYE every 20 mins. (DW)
5240 TANJUG BELGRADE (YZI213) 1958 RTTY 50/500 EE press. 180hz high. Same 2254, press in EE. (DW)
5285 Kiyev Meteo, UKR 1845 FAX 90/576 synoptic chart, //3360 but less distortion (5285 is used by both Kiyev and Tashkent Meteo) (KB)
5299 IER20: IFG Rome,I 0915 ARQ Encrypted traffic (AB)
5312 MFA BELGRADE 0629 RTTY 75/R/400 Marker "DFZG qtc ry's" and tfc list. Tfc in offline encrypt after p/l header. Ends "tks 73 sk" & offair. (DW) MFA Belgrade 1000 FEC-A 144b. (JK)
5325 ALMA ATA MET (RCW75) 1935 FAX 60/576/N/800 Chart with plotted obs. Transmitter slightly fast. (DW)
5346.9 ARKHANGELSK MET (RSW71) 1049 FAX 60/576/N/800 Weak signals. Dead zone and occ vague outlines only visible. (DW)
5355 MOSCOW MET (RND77) 1625 FAX 90/576/N/800 AUXX. //7750. (DW)
5397 RFFP: MOD Paris, F 2300 ARQ M2 200/340 w/traffic for `RFFVAY' Sarajevo. (PS)
5397.7 Unid: 0520 ARQ-M2 200/354 Ch 1-5 LG; Ch 2-idle. (MR2) [RFFP, MoD Paris -RD]
5413 "GT" 1348 RTTY 75/854 clg GXQ w/Foxes & RY's, then into encryption after "vmgtcnj". Presume "GT" is a British warship. (PT)
5453 RFFGCFC: (Mulhouse?), F 1550 ARQ-E 72/411 w/test msg including RY's

& "LE BRICK" to RFFGCCCS via "UFC" circuit. (PT)
5474 SANTA MARIA AIR (CSY) 2312 RTTY 50/N/670 Marker "de CSY CSY CSY" & ry's. 680hz high. (DW)
5477.4 MFA BUDAPEST (HGX21) 0721 ARTRAC 125/170 Tfc (diplo news summary) in Hungarian p/l. (DW)
5692.2 UNO 1000 HC-ARQ 240b. MFA Teheran 1000 HC-ARQ 240. (JK)
5705.8 FF FT DE FRANCE [RFLI] 0746 ARQ-E3 96/400 8CRC. Betas. Operating on LSB. Slow transfer of tfc in French p/l. Seems to give up. At 2055, Tfc in FF p/l. Cct [IRT] to Cayenne. (DW)
5752.5 UNHCR Yugoslavia, 24h, PACTOR 200b/ARQ 100b. (JK)
5777.1 UNO 1100-1830 HC-ARQ 240b. (JK)
5794.3 Unid 2000 ARQ. (JK)
5796 UNID. 1526 ARABIC 50/170 Tfc in ATU80 in discrete messages. Period msgs & period off air. Transliteration kds (to) kdpkmh (alsadt). (DW)
5797 Unid 1130 RTTY 50b/400 Arabic, starts w/G/O/FAJ 183, end was OG KDJ KDO DDJ KDJBHXH, JMSFVDTMLM LKDKQKG--Y, KDJXKE/ OYMKDDR TJLMH. (GD2)
5850 OXT: Copenhagen Meteo, DNK 0948 FAX 120/576 ice chart, fair (KB)
5864.7 USN SIGONELLA (NSY) 1609 FAX 120/576/N/800 Surface forecast for Europe. (DW)
5887.2 ROME MET (IMB2) 1650 RTTY 50/850 Met traffic. 10 bit frame. (DW)
5923 MFA WARSAW (SNN299) 0704 RTTY 75/400 Repeated qrc list for cq1 (Europe) distribution. At 0701 RTTY 75/R/250 Diplo broadcast with Polish press. At 0718, Polish press and diplo broadcast. At 0700, Diplo broadcast to embassies. (DW)
6167.1 VOA, Washington D.C. 1542 ASCII 300/170 Test transmission "OUTERNET". (PS)
6262.5 UYER: 0650 ARQ TKH Donetskiy Metallurg w/tlx tfc after sending selcall XVSK (KPH). (RB)
6263 SHIP "GEN. CABAL" 2234 ARQ Tfc (corrupted by RT qrm) wkg Goeteborg in EE. (DW) [DZAB, General Cabal -RD] LYCH: 0658 ARQ Kapitonias Danfilov (last known as) w/login for msg ck, no name used, login 49519 LYCH. C4XH: 0710 ARQ M/V Derby North w/tlx re arrivial Columbia River pilot station. 6ZXJ: 0725 ARQ M/V Brazilian Sky, wood chip carrier, w/tlx for ETA Shimizu, Japan, login 26423 BRASKY. 3FJH3: 0731 ARQ TKH Frines, general cargo vsl out of Kholmsk (KHLM/MMF), w/tlx to crew dept SASCO, Kholmsk, another flagged-out Russian w/login 26617 FRINES. P3BF6: 0740 ARQ M/V Elixir, w/tlx for needed supplies, bound Houston. (RB) 6ZXJ M/V Brazilian Sky 0102 ARQ w/tlx, Port Log info, Coosbay. login: 26423 BRASKY. ELIQ7 Forest Hawk 0214 ARQ w/tlx to: General Steamship, PORTLAND. login: 24943 ELIQ7. C4XB M/V Sentosa 0503 ARQ w/tlx, ETA Houston. login: 29241 SENTO. P3LZ5 M/V Pacificator 1933 ARQ w/tlx, ETA San Diego P/S. login: 29268 PACIFI. 3FUM4 JOHNY C. 0746 ARQ RX TLX FM MARITEX S. LOGIN: 26955 JONY. (WT)
6263.5 SHIP "BREDIHIN" 2247 ARQ Difficult comms. Station contacted Riga (new channel or cross channel working?) Comms did fail and stn reverts to selcal CVCX (but Riga is 3704/KYVM) then offair. (DW) [TR Fedors Bredihins, YLAZ -RD] CUFE: 1420 ARQ N/M Santa Christina w/SS tlx, login 51851 CUFE. (RB)
6264 UOAW: 0208 ARQ TKH Fatezh w/crew TG's to Mariopol Radio. (RB) KCGH Kainalu 0022 ARQ w/e-mail via KFS. login: 10786 KCGH. (WT)
6264.5 WLBV: 0814 ARQ M/V Richard G. Matthiesen (T-AOT-1124) MSC chartered oiler, w/ETA tlx. (RB)
6265.5 UCNR: Akhtuba 0202 ARQ msg ck. (AB2) LXBY: 0601 ARQ M/V Cornelis Verolme, container ship w/tlx tfc. KNJA: 1455 ARQ SS Tampa Bay w.tlx re stow plan. (RB)
6266 WLBX Lawrence H. Gianella 1755 ARQ w/psn rpt, 3502N 12236W. login: 11646 GIAN. (WT)
6267 EQPT: 0405 ARQ M/V Iran Ghafari w/24 hr notice to Manzanillo tlx via VAI, Vancouver CG Radio. OYNG2: 0544 ARQ M/S Maersk Leader w/tlx tfc. (RB)
6267.5 3FAC4: M/V Columbia 0705 ARQ w/cargo list. MV Koueratsiya 2347 ARQ comm w/Moscow Radio, RUS. (MR2) LNVP3: 0213 USB M/S Song of Norway cruiseship, w/TG to crew member on board M/S Legend of the Seas. (RB) Unid: 0538 ARQ w/pers tg's login: 71001 VJUB. can't ID this one. KAAZ SS Overseas Vivian 0624 ARQ w/tlx to: CITGO, arr Corpus Christi. login: 11096 KAAZ. 3FNQ4 M/V OCEANIC ENTERPRISE 0443 ARQ WKG WLO, AMVER/SP PORT CARTIER 5000N 06647W. MISSED LOGIN. (WT)

6269 WFQE B.T.Alaska 2019 ARQ AMVER/PR 3449N 12207W. login: 10909 WFQE. P3XW4 Fedra 2239 ARQ rx only, login: 27537 P3XW4. (WT)
6270 3EIK8 Atlantic Star 0120 ARQ w/tlx, login: 42715 ASTR. KHRC SS Matsonia 0635 ARQ wkg WLO in OPR mode. (WT)
6272.5 C6KV3 M/V Canterbury Star 0622 ARQ in OPR mode. (WT)
6273 P3AC3 M/V ATLAS 0222 ARQ W/TLX ETA CHARLESTON 6-1. LOGIN: 01717 ATLAS. (WT)
6273.5 DUCT Eurasian Charm 0423 ARQ Calling XVSX = 1091 = KPH, no joy. sent login 76768 DUCT. WSDX Prince William Sound 1738 ARQ w/OBS, not BBXX, login: 10845 WSDX. WSNB SS Kenai 1736 ARQ tlx to: Keyshipco, login: 10738 WSNB. P3BI4 KURPIE 0424 ARQ W/TLX, LOGIN: 00589 P3BI4. 3FTQ4 M.V. MIN NOBLE 0427 ARQ AMVER/PR, LOGIN: 42034 MINN. (WT)
6274 YLCS: 2137 ARQ TK Dzintari w/crew TG tfc to Riga Radio. YLAO: 2145 ARQ TKH Mikhails Lomonosovs w/crew TG's to Riga Radio. (RB)
6274.5 ELBM9: 2045 USB M/S Tropicale, Carnival Cruises 36,674 DWT cruiseship w/tlx tfc to crewmember aboard cruiseship Starship Atlantic. UDXF: 2134 ARQ TKH Professor Khliustin w/crew TG tfc. (RB)
6275.5 UTWV: 2036 ARQ TKH Ivan Pereverzev, w/crew TG tfc to Mariopol Radio. (RB)
6281 UZHG M/V Kapitan Ponomarev 0321 ARQ w/tlx arr Corpus Christi. 5BUF: M/V Jodie D. 0137 ARQ w/tlx, login: 00574 5BUF. (WT)
6300.5 SQRL: 2020 ARQ M/V Kopalnia Borynia w/PP tlx via Szezecin Radio. (RB)
6303 LYDD: 2119 RTTY ML Sventoyi in 50/170 admin msg for ETA Casablanca. (RB)
6303.5 UWZY: 1959 RTTY TKH Professor Anichkov in 50/170 admin msgs to Odessa from master, KM Kovolchukav. UTWY: 2142 RTTY TKH Svanetiya w/ETA Damman, this is ex-UOIJ. ENXS: 2147 RTTY TKH Kapitan V. Ovodovskiy in 50/170 RYRY/DE to UUI, & into crew TG's to same (ODS/UMF). (RB)
6303.8 ENVI: 2304 RTTY TKH Kapitan Soroka in 50/170 crew TG'S to Odessa (ODS/UMF). (RB)
6304.5 UAHC: 2127 RTTY TKH Adigeni in 50/170 RYRY/DE to UUI, Odessa Rdo, using former c/s UWPC in RY, w/tlx to Novamar Ravenna, Italy for ETA to dischg 4530 MT cargo. UYPD: 2140 RTTY TKH Valeriy Mezhlauk in 50/170 crew TG's to Odessa rdo (ODS/UMF). UTOB: 2147 RTTY TKH Aleksandr Tsyurupa in 50/170 RYRY/DE to UUI, Odessa Radio, & w/admin TG w/ref to Port Columbo. UYWH: 2318 RTTY TKH Kapitan Kaminskiy in 50/170 crew TG's to Odessa Radio. (RB)
6305 LYES: 0031 RTTY TKR Suomiyos Ilanka in 50/170 RYRY/DE to LYL, Klaipeda Radio, Lithuania, & into crew TG's to same. (RB)
6310.5 UVHA: 2123 RTTY RTMKS Vasiliy Lozovskiy, in 50/170 RYRY/DE to UDK2, & w/admin TG's to Murmansk Tralflot using hull#/ID MA-1823. (RB)
6312 UNID. 0618 GMDSS 100/170 19 calls, nearly all Selcall individual routine or safety/test. (DW)
6314.5 GOETEBORG RADIO (SAB301) 2236 ARQ Receiving tfc from ship "Gen. Cabal". (DW)
6315 PORTISHEAD RADIO (GKE3) 0933 FEC N/Atlantic wx, at 2244 w/SITOR Marker "GKE" & tuning burst. (DW)
6315.5 MARIUPOL RADIO (USU) 2257 CW/SITOR Marker "USU" & tuning burst. (DW)
6316 BUENOS AIRES RADIO (LSD836) 2307 CW/SITOR Marker "LSD836" & tuning bursts. NOVOROSSIYSK RADIO (UFN) 2304 CW/SITOR Marker "UFN" & tuning burst. (DW)
6317 MOBILE RADIO (WLO) 2311 CW/SITOR Marker "WLO" & tuning burst. ODESSA RADIO (UUI) 2310 CW/SITOR Marker "UUI 3651" and tuning burst. (DW)
6318 ROGALAND RADIO (LGU2) 2325 CW/SITOR Marker "LGB TLX" & tuning burst. (DW)
6318.5 LYNGBY RADIO (OXZ) 2326 CW/SITOR Marker "OXZ" and tuning burst. (DW)
6319 MOBILE RADIO (WLO) 2327 CW/SITOR Marker "WLO" and tuning bursts. (DW)
6320 NORDDEICH RADIO (DAN) 2329 CW/SITOR Marker "DAN" & tuning bursts.(DW)
6320.5 ST LYS RADIO (FFT31) 2331 CW/SITOR Marker "FFT" & tuning burst. (DW)
6321 MOBILE RADIO (WLO) 2333 CW/SITOR Marker "WLO" and tuning burst. (DW)
6321.5 SVA: ATHENS RADIO, GRC 0400 FEC tfc lst + CQ call (SS)
6331 UNID. 0715 GMDSS 100/170 Coast DSC frequency. 2 packets (? noise bursts). "Format specifier :Error : No valid calling mode." (DW)
6336 GYA: RN London, G 1140 RTTY 75/815 w/availability info. (PT)
6347 HWN: Paris, F 1404 RTTY 75/830 w/RY's, SG's & "DE HWN". (PT)
6348.5 HWN Paris France 0729 RTTY 75/850 RY test. (CC)
6416 WLO 1800 FEC wx + x-mas greetings. (EC1)
6496.4 CF HALIFAX (CFH) 1945 FAX 120/576/800 Wave prognosis. At 2243,

CF HALIFAX (CFH) 2243 RTTY 75/600 Met traffic, at 2253 w/75/600 Terminal forecasts. (DW)
6741.7 TUNISIAN NAVAL NET 1912 ARQ Msg "secret routine rr//" very slow then selcal XKTQ. "Fm PLM" then selcals XKTQ. Swaps to sitor/B "XKTQ ry's int qsa sur sel fec"Opp side vri weak. "aa de tt int sa sur sel fec". Sitor/A XKTQ (DW)
6750.6 Unid 1941 RTTY 50/425. (CC)
6769 MFA WARSAW (SNN299) 0708 RTTY 75/400 Repeated qtc list for cq1 (Europe) distribution. 16 msgs on list. At 0838, same w/Tfc in Polish p/l. Economic bulletin in Polish. (DW)
6771.7 Unid 0300 ARQ-E3 192/369 idle. (MR2) [RFLI, Fort de France often logged here -RD]
6798 FAF ORLEANS (FDY) 0747 RTTY 50/400 Marker "test de FDY voyez le brick figs rys FDY's". 10m bit frame. (DW)
6821 'TBDJ', unid Turkish Navy station 0100 RTTY 75/850 test-slips, any info? (LD2)
6822 UNID: 2210 ROU-FEC w/164.5/400 enc. tfc (SS)
6827 V5G: MFA BUCHAREST, ROU 2047 ROU-FEC w/164.5/400 short enc. msg. (SS)
6835 BRACKNELL MET (GFL22) 2032 RTTY 75/N/400 Met traffic. Same at 2358,
6918.5 MADRID MET (ECA7) 1710 FAX 120/576/N/800 Sea surface temp. (DW)
6933.5 Guardia Civil La Coruna ARQ. (JK)
6963 Unid VFT signal comprising 3 channels of FEC-A at 192/85, all sending encrypted traffic. (PT)
6963.7 Unid: 0530 ARQ-E 192/135 idle. (MR2) [RFLIGA, FF Cayenne on C.I. GAG logged here before -RD]
6972 ROMPRES BUCHAREST (YOG59) 1644 RTTY 50/N/500 French press. Same at 1755 w/RY's then EE press. (DW)
6974.3 Irish Navy ARQ. (JK)
6984.1 MFA Warsaw, POL 0301 ARQ-POL 100/200 5 CRC, pol. msg. from MFA, & wx. (ED)
6991.5 Guardia Civil, Lerida ARQ. (JK)
7321.5 FAF ORLEANS (FDY) 1955 RTTY 50/N/400 10 bit frame. RY's & brick test. FDYFDYFDY string. (DW)
7382.7 SPANISH EMB ? 0755 ARQ Selcals QEMP. This believed secal for MFA Madrid. (DW)
7383 POL EMB COPENHAGEN 0932 ARQ-POL 100/250 4CRC. Betas then ":wyslij: kopenhaga" twice. Offair. (DW)
7407 FDY: Orleans, F 1142 RTTY 75/825 w/RY's & "Le Brick". (PT)
7423 NAIROBI AIR (5YD) 1850 RTTY 50/R/250 Air traffic. Cct [KVA] to Addis Ababa Air. (DW)
7508 ZRO2 Pretoria Meteo 1655 FAX 120/576 map. (PC)
7512 ZRO2 Pretoria Meteo 1630 RTTY 75/425 synoptic info. (PC)
7521 FDY: Orleans, F 1145 RTTY 75/825 w/RY's & "Le Brick". (PT)
7524 COTONOU AIR (TYE) 2318 ARQ-342 96/400 4CRC. 2 chan. Betas/rq's. At 2022 w/Chan A: Cct [UNA]. Air tfc to Niamey Air. ChanB: Met tfc & channel ck "CH de TYE". (DW)
7535 Darwin Meteo 2130 FAX (MR2) w/thanks to Day Watson for indicating freq. This was my first fax reception from down under. (MR2) AXI33 Darwin Meteo 1532 FAX 120/576 map. (PC)
7581.5 NKW: USNy Diego Garcia 2115 FAX 120/576 700 hPa 24h fcst, xmtr running 15 ppm too slow (KB)
7581.7 USN DIEGO GARCIA (NKW) 2010 FAX 120/576/N/800 Charts of Indian Ocean. Station listed as 7582. (DW)
7582 NKW USN Diego Garcia 1506 FAX 120/576 map. (PC)
7586 FF DZAOUTI [RFVITT] 1949 ARQ-E 96/400 4CRC. Betas. (DW)
7598 USAF Roosevelt Rd., PTR 0750 FAX 120/576 atl surface analysis 00z, moderate distortion, //7398 (same quality), //4855 (poor) (KB)
7606.7 FF PARIS [RFFA] 2323 ARQ-E3 192/400 8CRC. FF press (sports) to military establishments. Cct [LFA] to Dakar [RFTJ]. Offline encrypted tfc. Repeat of press from Marine Sirpa Paris. (DW) Unid FF 0240 ARQ-E3 192/357 msgs addressed to rftjc/rfflva/rfflf/ rfhic/rfhwwc/rfflo/rffnn/rffkvge/rffjgt, some re satellite system, then controle de voie msgs. (MR2) [RFFA, MoD Paris logged here in 192 baud, C.I. LFA -RD] Unid: 1442 ARQ-E3 100b idling. RFFA, Mindefense, Paris, F, listed w this freq./mode, but sig. seemed too strong to be from Paris at this time of day in the U.S. (RM) [we also have had logs of RFHI Noumea on C.I. HIJ here in 100 baud -RD]
7614 Unid RFFHCARQ ARQ-E 192/305 w/OO RFFHCARQ, DE SE E E E E E E E AR,

NNNN, I think RFFHCARQ is Ajaccio but who the transmitting station is I don't know. (PT) [RFFH, Marseille to Ajaccio (EHR) logged here before -RD]
7634 MFA PARIS [RFGW] ? 1610 FEC-A 192/400 Offline encrypted tfc. Poor signal. (DW)
7646 HAMBURG MET (DDH7) 0850 RTTY 50/400 Wx in German. (DW)
7658 TANJUG BELGRADE (YZI223) 2004 RTTY 50/400 EE press. 90hz high then idle. Same at 2257 w/50/500 Press in English. (DW)
7664 FDY: Orleans, F 1146 RTTY 75/825 w/RY's & "Le Brick". (PT)
7670 MOSCOW MET (RCC76) 1120 FAX 90/576/800 Noisy chart //13470. Same at 1536 (carrier) on otherwise weak signal. (DW)
7678.5 Unid 0148 FEC 109/300 confirmed baud-rate, 5lg's , NNN at end. (ED)
7685 MOSCOW MET (RBV75) 0845 RTTY 50/1000 Met traffic. (DW)
7750 MOSCOW MET (RAW78) 1013 FAX 90/576/800 Small charlets. (DW)
7761.9 ARKHANGELSK MET (RGH77) 1055 FAX 60/576/800 Transmitter fast. Chart w/no detail. Also at 0753, 1058. (DW)
7770 RN GIBRALTAR (GYU) 1110 VFT// 8 channel interleaved VFT on USB. (DW)
7771.9 RN GIBRALTAR (GYU) 1111 ARQ-342 96/340 7771.995. Channel in vft. Two channel TDM. Both betas. No traffic. (DW) Unid 0107 ARQ-TD2 96/200 CCIR 342, in FDM of 75 baud signals. (ED)
7784 Unid 2125 RTTY 75/850 USAF Air Weather Svc meteo. (CC) USAF AWS UNID. [KAWN] 0726 RTTY 75/R/850 Met traffic. Example headers "SHNT KAWN 010600 CTD02". (DW) [suppose to be NRR, U.S. Navy, Roosevelt Roads, PR w/USAF KAWN meteo -RD]
7804 Unid: 1147 FEC-A 144.4 Un-ID station w/encryption after RYRYRYRYRY. (PT) [Ary sez MFA Belgrade on 7805 -RD]
7806 TANJUG BELGRADE (YZI225) 2258 RTTY 50/500 Press in EE. (DW)
7806.7 Unid 1721 ARQ 100/170 Arabic. (CC)
7808 MFA BELGRADE [DFZG] 1435 RTTY 75/R/400 Online encrypted tfc after xyxyxyxy string. (DW)
7823.7 MFA Cairo 1530 ARQ <Tunis. (JK)
7834.5 5ST: Antananarivo 1727 ARQ-E 48/247 ASECNA. (CC) ANTANANARIVO AIR (5ST) 2023 ARQ-E3 48/250 8CRC. Betas. Cct [TNC] to Plaisance Air. CH svc & wx msg. (DW)
7842 CNM20 Rabat Morrocco 1730 RTTY 50/850 MAP FF Nx. (CC)
7845.5 Unid fax signal 0727 FAX 0727 end of chart; 0742 start of next chart, could be antarctic area, labels in the lower left and upper right corners, but unreadable; 0804 start of next chart. Casey Meteo, ATA? Who can help? (KB) [Day Watson feels this is RUHB, Khabarovsk Meteo -RD]
7856.2 Unid 1708 ARQ-E 48/400 Idles. (CC)
7870 Unid: FAX Map of U.S. w/"USAF/AWS AIR FORCE GLOBAL WEATHER CENTRAL", quality isn't great so could not make out other text. (RR) Unid 1022 FAX 120/576 Wx. (EW) [suppose to be NRR, U.S. Navy Roosevelt Roads, PR w/KAWN charts -RD]
7892.5 MFA VIENNA 0728 ARQ-S 96/170 CRC6. Traffic in offline encryption. No indication as to which embassies. (DW)
7898 PHFS BONN 0750 ARQ-E 72/85 German opr chat in p/l (to Mostar, BosHertz.) on startup and before (2)messages which online encrypted. Sign off w/"a:2 e:0" (2 sent, nil received). (DW)
7912 PIAB BONN (DGG91L2) 0639 FEC-A 96/400 Press for Europe. Start up sequence. December Schedules. GG press. At 0745, press in GG for Europe. Advised next schedule at 1345z on 7916 khz. (DW)
7916 PIAB BONN (DGG91L2) 1345 FEC-A 96/400 Press in German for Europe. Advised next schedule in morning at 0645z on 7916khz. At 1600, press in GG for Asia. On DGJ36L1/9361.9khz and DGG91L2/7916khz. (DW)
7920 Soud station 1445 RTTY Link 00074. (GD2)
7940 Unid: 1432 200/400 TP sys. (RM)
7946 FF LE PORT [RFVI] 2033 ARQ-E 96/400 4CRC. Betas. (DW)
7959 IRNA TEHRAN (9BC23) 1537 RTTY 50/400 EE press, also at 1918. (DW)
7960 MFA PRAGUE 0812 RTTY 100/400 Diplo press summary in Czech p/l. (DW)
7975 SOH297: Warsaw, Pol 1800 FEC PAP Maritime News in PP. (AB3) WARSAW RADIO (SPW) 1357 FEC PP ship ress after tfc list and station details. (DW)
8010.6 MFA ALGIERS 1344 COQ-8 26.7/E/- 8010.660. on line encrypted. (DW)
8028 MFA BUCHAREST [V5G] 1128 FEC-ROU 164.5/400 BImask=24. Circular msg in Roumanian p/l. (DW)
8031.4 Unid 0229 ARQ Wide shift, Spanish, Perhaps UN? (ED)

8049 IRNA TEHRAN (9BC25) 1912 RTTY 50/N/400 Press in EE, 200hz high. (DW)
8079.9 USN CUTLER (NAM) 1702 FAX 120/576/N/800 Satellite pix. At 1538, w/transmission sked. (DW) [c/s now NAA -RD]
8083 TASHKENT MET (RIJ75) 1850 FAX 90/576/N/800 Transmitter running fast. Noisy chart. Second chart service strip in Cyrillic noting time 1905-1925. This suggests that chart not available & this advisory service. (DW)
8108 Russian SOUD diplo sta 1346 RTTY 75/476 w/5LG after 11177. Sign off in CW 1350 after ending RTTY xmsn. (RM)
8117.7 Unid: 1428 ARQ-E3 w/weak sig. that was under QRM. Sounded like ARQ-E3 at a fast speed, such as 192. (RM)
8146.6 ROME MET (IMB55) 1237 FAX 120/576/N/800 Distorted upper air chart. (DW)
8150 HMF86: Korean Central News Agency, Pyongyang KOR 1000 RTTY RY'S & ID'S "HMF46/86 10580/8152".EE nX. (RH)
8154 MFA WARSAW (SNN299) 0702 RTTY 75/R/250 Diplo broadcast w/Polish press. At 0706 w/Diplo broadcast to embassies. (DW)
8155.5 MFA WARSAW (SNN299) 0700 RTTY 75/R/400 Repeated qtc list for cq1 (Europe) distribution. (DW)
8155.7 MFA WARSAW (SNN299) 0715 RTTY 75/R/170 End of bdcast "le:theend.cq1." (appears also to have been on5923). (DW)
8155.8 MFA WARSAW (SNN299) 1018 ARQ-POL 100/170 4CRC. Long period of betas - probably receiving. (DW)
8377 3EYB6 M/V Kudu 0044 ARQ clg KQQV=3220=Portishead R., no joy.. (WT)
8377.5 UYAD: Maksim Gorkiy 0020 ARQ several msgs via UUI, selcall 54690. (AB2) WSRH SS Kauai 1713 ARQ w/tlx eta L.A P/S 061530. WLVD Lurline 2240 ARQ wkg KFS w/e-mail. login 10987 WLVD. KNLO SS Manukai 0200 ARQ w/tlx to: Vessel Ops, Seattle. HZXR MV AL ZAHRAH 0626 ARQ w/tlx, Merry Xmas Msg. login: 00924 HZXR. WFLG SS Sea-Land Spirit 1814 ARQ w/wx obs, BBXX. login: 11304 WFLG. ATPN M/V Hargobind 2235 ARQ rx only, login: 23590 HRGD. WRJP M/V R.J. PFEIFFER 1744 ARQ W/TLX RE: BROKEN FAX MACHINE. LOGIN: 03834 WRJP. (WT)
8378 UWAK: Valeriya Barsova 1550 ARQ msg ck, selcall 67751. (AB2)
8379 WGWA: SS Willamette 0030 ARQ re inventory of jet fuel & gasoline, filing protest re delay in loading per master. PGMN: m/v Olivierssen 1410 ARQ msgs & schedule. (MR2) ELNS4 M/V Pacific Star 0415 ARQ w/tlx login: 24354 PSTR. WRK5847 Coast Runner 0048 ARQ in OPR mode, missed login. (WT)
8379.5 PPUT: Frota Argentina 0043 ARQ tfc in Portuguese, selcall 58409. (AB2) HBDL Grischuna 0507 ARQ AMVER/PR, 2939N 14928E. login: 51234 HBDL. 3FZJ3 HANJIN TOKYO 0438 ARQ W/JASREP/DR, LOOKS JUST LIKE AMVER. (WT)
8380 9HGK4: Manley Exeter 0020 ARQ tfc for London, vsl outbound from Cuba, selcall 24223. (AB2)
8380.5 9MBQ4 Bunga Orkid Dua 0145 ARQ w/AMVER/PR, 5520S 06553W (Cape Horn). (WT)
8381 BRXU: 0249 ARQ Ming He w/tlx tfc, selcall 09736. C6LH6: 0351 ARQ M/V Skywind w/tlx re repairs, login 63135 C6LH6. S6CP: 1552 ARQ Eagle Auriga w/AMVER/PR via WLO. 3FYE3: 1711 ARQ MSC Dominique w/tlx for ETA Miami pilot via WLO. (RB) WXWL M/T Delaware Trader 1812 ARQ w/wx obs, (not BBXX) login: 11172 WXWL. OYID2 M/V MALENE 0447 ARQ W/TLX TO: INCHCAPE HONO. LOGIN: OYID. (WT)
8381.5 UWDQ: Kapitan Anistratyenko 1638 ARQ tlx for supplies at next port. (AB2) ELCQ9 M/T Stolt Exporter 0807 ARQ rx only, login: 09453 ELCQ9. (WT)
8382 ELKC8: Achilles 1610 ARQ posn rpt 34.10N/135.05E. (AB2)
8382.5 D5OE: William L. Mussman 0020 ARQ obs msg. UMYW: Suverenitet 0046 ARQ testing "we are trying to test this system, cud you please tell us how our answer-back came out"? BRQM: Unid 1630 ARQ ETA for unk port. TCJS: Canalp 2232 ARQ ETA for Los Angeles. (AB2) UYTI: 0045 ARQ TKH Rybinsk w/crew TG's to Mariupol Radio. (RB) WSDX Prince William Sound 2355 ARQ w/BBXX login: 10845 WSDX. 9HNW4 M/V Imperial 0033 ARQ w/tlx, 5117N 16422W. ETA Inchon 2 Jan. login: 24295 IMPR. P3IH3 M/V Caravos Explorer 0040 ARQ w/tlx to: Sonship, Athens. login: 01781 P3IH3. DUCT: Eurasian Charm 0153 ARQ w/tlx to: Inchcape, Portland. login: 76768 DUCT. Unid 1805 ARQ login: 06491 MUSS, cant ID this one. P3IH3 M/V Caravos Explorer 2137 ARQ w/tlx noon rpt 2859N 12948W. login: 01781 P3IH3. (WT)

8383 SYWT: Stella Solaris 0043 ARQ two msgs in Greek. (AB2) SXYC: 2156 ARQ M/T Prosperventure L. w/dischg report. (RB) SYOC M/V ANGELIC SPIRIT 0235 ARQ WKG SVS W/TLX. LOGIN: 16701 SYOC. (WT)
8383.5 SVCD: 0125 ARQ M/V Angelic Grace w/tlx to report at anchor. (RB) ELGH2: MV Dole California 2324 ARQ w/AMVER MSG login: 24741 ELGH.(WT)
8384 SNGC: Armia Krajowa 2243 ARQ msg ck. (AB2) KLEZ: 0431 ARQ SS Overseas Arctic (tanker) w/AMVER/FR, login 11088 KLEZ. (RB) 3FYE3 MSC Dominique 0427 ARQ w/fax, login: 42181 3FYE3.
8384.5 ENZZ: General Merkviladze 0027 ARQ tfc for Batumi. (AB2) C4DU: 0351 ARQ Grigoroussa w/tlx to Thenamaris Athens, login 27503 GRIG. ELKL3: 1712 ARQ M/V Front Climber w/tlx tfc. (RB) LAJK4 M/V Swan Stream 0740 ARQ w/pers TG's, login: 29395 SWASTR.. (WT)
8385 SZPX: 0441 ARQ M/V Maroudio w/tlx in Greek, login 16897 SMARO. (RB)
8385.5 KNCX: Chelsea 1649 ARQ QRG rpt, selcall 10725. (AB2)
8386 NNUD: 0544 ARQ USNS Silas Bent (T-AGS-26) USN Survey ship, w/inventory of 'sundries' items to NMC for relay to Navy system. (RB) NNUD USNS Silas Bent 0607 ARQ MOVREP, 2600N 17500E, ETA Sasebo, JA. C6KV3 M/V Canterbury Star 1840 ARQ w/wx obs BBXX. login: 61384 CTBS. C6FA2 Samuel H. Armacost 0059 ARQ w/AMVER/PR eta Portland. DZZE: DEXTER EAGLE 1911 ARQ W/AMVER/PR, 2052N 10815W. LOGIN: 76791 DZZE. (WT)
8386.5 VSBZ5: Chevron Edinburgh 0022 ARQ msg ck. 9HKG4: Mekhanik Khelhvskiy 1536 ARQ sev tlxs for Singapore, selcall 57201, ex-UWLC? ENWU: Roman Karmen 1545 ARQ msg ck. (AB2) KAAZ: 1050 ARQ M/T Overseas Vivian, U.S. flagged products tanker, w/discharge report for Port of Tampa. (RB)
8387 DUCT Eurasian Charm 0048 ARQ w/tlx via KPH. 4956N 16837W in hvy seas. login: 76768 DUCT. ELEV8 Lircay 0142 ARQ w/BBXX login: 24887 ELEV. SZNU Trident Mariner 0356 ARQ w/tlx to: A.A.L. London, 2048N 16008W. login: 16872 SZNU. ELEV8 Lircay 1802 ARQ w/tlx, monthly dsl eng rpt. login: 24887 ELEV. C6JF2 MV California Star 2353 ARQ w/tlx, login: 61784 CSTR. 7JXV BP Azuchi Maru 0127 ARQ w/TG in SS?. BOAB M/V Tai He 1930 ARQ w/tlx, login: 19804 BOAB. (WT)
8387.5 SQGN: Budowlany 0006 ARQ msg for Szczecin. (AB2) GBKU: 0336 ARQ Maersk Ruler w/tlx tfc. (RB)
8388.5 PHIU: Schoener 0040 ARQ AMVER msg, selcall 81758. WTDO: NOAAS Oregon II 1525 ARQ Christmas tlx. (AB2)
8389 NNUD USNS Silas Bent 0120 ARQ w/OPSUM INMARSAT still out. login 11385 NNUD. (WT)
8389.5 3EZX8: Amazonia 1532 ARQ tlx re vsl supplies. (AB2) WLBX Lawrence H Gianella 0245 ARQ w/arr rpt, Pearl Harbor. missed login. SCEG: M/T Flamenco 1741 ARQ w/tlx, login: 26880 FLAME. LAII2: M/V DYVI ADRIATIC 0109 ARQ W/TLX ETA PANAMA CANAL. LOGIN: 26895 LAII2. (WT)
8390 3FUM4: Johhny C. 2353 ARQ tlx to owners re financial matters. (AB2) N/A: Falstaff J. Duczynski 0027 ARQ w/tlx to Finland. login 26366 FALSTA. [I think the name is just 'Falstaff', but no c/s -RD] ELOM7: M/V Centurion 1709 ARQ w/tlx to: Eurobulk, login: 29232 CENTU. N/A: M/V Western Eagle 1935 ARQ w/tlx, login: 26622 MATA. C6IE6: M/V Snowflower 0434 ARQ w/tlx, login: 61724 FLOW. (WT)
8390.5 PPWF: 0421 ARQ M/N Nacional Rio w/tlx for ETA to sailing for Mariel via WLO, login 41942 3EBN5. (RB)
8391 TCKV: 0632 ARQ M/V 30 Augustos w/SS tlx tfc. (RB)
8391.5 N/A: 0122 RTTY ML Kuivastu in 50/170 tfc to Tallinn Radio, Estonia (TLN/EML), c/s is unk for this vsl. UIWF: 0251 ARQ TKH Pervomaysk w/crew TG's after sending selcall KYVX (UAT, Moscow Rdo). (RB)
8392 USQS: Burgas 0004 ARQ msg ck, selcall 54651. (AB2) N/A: 0338 ARQ Rubin Grace w/tlx for ETA Kashima, Japan, login RBGC, callsign? C6LC7: 0438 ARQ Zim New York w/AMVER/PR. GBTT: 0609 ARQ Queen Elizabeth II, Cunard Lines "QE2", w/BBXX wx report on Christmas morning. C6TV: 0613 ARQ M/S Statendam, Holland-American lines 50,000 DWT cruiseship, w/BBXX wx obs. C6MM2: 1502 ARQ M/S Ryndam, w/crew tlx to StarShip Atlantic, Ryndam is a Holland-America Lines 55,000 GWT cruiseship. ELAJ2: 1523 USB SS Starship Atlantic, Premier Cruise Lines cruiseship w/tlx to cruiseship Oceanbreeze, login 24486 ATLANTIC. WPFZ: 1637 ARQ M/V Adabelle Lykes w/crew msg tlx to WLO, login 11601 WPFZ. (RB) PPWF N/M Nacional Rio 0328 ARQ w/tlx to: Grupo Libra, Rio De Janeiro, Brazil. Login: 01000 NACRIO. (WT)
8392.5 UNNX: Gorno-Altajsk 0017 ARQ crew TG's, vsl "Povonets" type cargo

ship built in early 60's. (AB2) UHBO: 0201 ARQ TK Novoklav-4, 15,090 DWT Russian Ammonia tanker, w/NVRTLG+ crew TG's. ENUO: 0409 ARQ TK Marshal Grechko w/tlx for posn 4242N/05116W, also wx report. UNNH: 0537 ARQ TKH Bikhin w/DISP-1 report to Novorossiysk Radio. UUOA: 1947 ARQ TK Akademik Verestchagin, w/admin msgs to Novorossiysk Rdo. UVLQ: 2158 ARQ TKH Marshal Zhukov w/admin tlx from master, KM Yakovlev. ENUK: 2359 ARQ TKH Akademik Sechenov bulk oil/ore carrier w/admin tlxs to Novoship. (RB)

8393 BPLL: Fu Zhou 1514 ARQ tfc via XSG. (AB2) ENYP: 0700 RTTY RTMKS Kapitan Butrimov in 50/170 crew TG's to Kerch Radio. BOAC: 1644 ARQ M/V Pu He wkg XSQ w/QRU for tfc. (RB) BOAB TAI HE 1819 ARQ W/TLX, 4443N 12447W ETA SEATTLE. (WT)

8393.5 ELNJ4: 0402 ARQ TK Izmaylova w/NVRTLG+ tfc to Novorossiysk Radio, is ex-ULQZ. USNM: 2218 RTTY RTMA Pyatigorsk in 50/170 crew TG's. (RB)

8394 3FYE3 MSC Dominique 0055 ARQ wkg WLO. Miami to New Orleans. login: 42181 3FYE3. (WT)

8396 UREJ: 2320 RTTY TKH Kapitan Vasiliy Kulikno, in 50/170 RYRY/DE to UUI, & into crew TG's. (RB) 3FVB4 M/V Frio Adriatic 0100 ARQ w/tlx to: Shipyard, Kommuoar. login: 29541 FADRA. (WT)

8396.5 EOPA: 0153 RTTY TR Lazurnyy Bereg in 50/170 RYRY/DE to UIW, & into admin msgs to fleet RTF (KLD/RTF), Reftransflot Kaliningrad (reefer fleet). LYFZ: 1555 RTTY STKS Vydunas in 50/170 admin tfc to Klaipeda Radio re crew pay list. LYFR: 2114 RTTY RTMS Zhemaite, Lithuanian trawler in 50/170 admin msgs to Klaipeda Radio from master, Kapitan Director (KMD) Zaverya. N/A: 2211 RTTY BMRT Kozenevkov in 50/170 admin msgs to K-grad, no info on vsl. UOMP: 2228 RTTY TSM Olustvare in 50/170 crew TG's to K-Grad. UFBE: 2308 RTTY BATM Maluvsyaii in 50/170 w/crew TG's using hull#/ID MA-0061 via Murmansk Radio. N/A: 2350 ARQ Lucky Lady w/tlx to Eastern Med. (RB) KRJG President Eisenhower 2000 ARQ on ships freq chatting w/KCGH, Kainalu. selcall 11596. (WT)

8397 UNSW: 2320 ARQ TKH Kapitan Bukmakin w/msg ck, login 66191 UNSW. (RB)

8397.5 3FKW4: 0021 RTTY TR Ref Vega in 100/170 RYRY, then to 50 baud for crew TG's. LYDN: 2310 RTTY BMRT Dem'yan Ryabuko in 50/170 crew TG tfc, ex-Daynava? UNGK: 2311 RTTY BMRT Sverdlovsk in 50/170 RYRY/DE to UIW, & into crew TG's to same. UIIC: 2339 RTTY TR Bereg Mechty in 50/170 RYRY/DE, & into crew TG's, this a 13051 DWT factory refridge. trawler. UFBH: 2342 RTTY Bereg Nadevdy in 50/170 RYRY/DE to UIW, & w/admin TG's from master. UEHX: 2358 RTTY STR 0206, STR Sinop? in 50/170 RYRY/DE to UIW, & w/crew TG's. (RB)

8398 UULU: 0635 ARQ TKH Pavlin Vinogradov w/tlx tfc to Arkhangelsk. selcall 54628. UBFX: 0659 ARQ TKH Inzhener Plavinskiy w/tlx tfc to same from master, KM Kuraev, selcall 54631. UNFZ: 0721 ARQ TKH Mekhanik Makarin w/11061 type report, login 54720 UNFZ. UJDR: 0745 ARQ TKH Mikhail Cheremnykh w/tlx for ETA Dublin, login 66032 UJDR. UNGP: 0758 ARQ TKH Vlas Nichkov w/DISP-1 report to UXN, bulk carrier w/login 66040 UNGP. USRS: 0805 ARQ TKH Pioner Litvy w/DISP-2 report after sending selcall KYVF (Arkhangelsk Rdo), login 66037 USRS. (RB)

8398.5 N/A: 2103 ARQ Continental Beta w/tlc to LSC Dry Cargo, Riga, login 29619 BETA. LYFJ: 2306 RTTY Druskininkai in 50/170 RYRY/DE to LYL, & into crew TG's/admin tfc, prefix is unknown. UQEV?: 2316 RTTY STR 8290 in 50/170 RYRY/DE to UIW, app w/this c/s, & into crew TG's to same using hull#/ID STR 8290. 3FKX4: 2335 RTTY TR Ref Star in 50/170 RYRY/DE to UIW, & w/crew TG's to same. (RB)

8399 ESJS: 0431 RTTY RTMA Tavrida in 50/170 crew TG's to Sevastopol rdo. N/A: 2304 FEC M/V Breman w/ID, then broadcast of Rostok GG nx. (RB)

8399.5 UKOS: 0001 RTTY NIS Akademik Sergey Vavilov, Russian research vsl, in 50/170 crew TG's to K-grad. UKAK: 2134 RTTY RKMRT Fortuna in 50/170 RYRY/DE to UIW, K-Grad rdo, & into admin TG's from master, KM Fefotmiya. UVJA: 2242 RTTY Kapitan Bogomolov in 50/170 crew TG's using hull#/ID MA-1831 (MRM/KRH). UIAA: 2339 RTTY TSM Obdorsk in 50/170 RYRY/DE to UIW, & w/crew TG's to same. (RB)

8401 UONC: 2054 RTTY TR Omega in 50/170 crew TG's to Sevastopol Rdo. (RB)

8401.5 3EUT9: 0012 RTTY TR Kil'dinskiy Proliv in 50/170 crew TG's, is ex-UWQS. UYTB: 2057 RTTY RTMKS Rybak-1 in 50/170 crew TG's to UIW. YLGB: 2103 RTTY TR Doles Sala in 50/170 RYRY/DE to UIW, & admin msgs from master, KM Chistyakov. UOZQ: 2121 RTTY BMRT Akvamarin 50/170, factory fishing trawler w/Atlantic wx report to Kaliningrad Radio

from master, KMD Chrenko. UCVK: 2137 RTTY UPS Kruzhenshtern in 50/170 admin msgs to K-Grad from master, KM Sedov, is Ex-ENPZ. ESMQ: 2250 RTTY BMRT Jakob Hurt in 50/170 crew TG's using hull#/ID BMRT 605. (RB)
8401.8 ELQZ6: 0133 RTTY TR Frost 2 in 50/170 RYRY/DE to UIW, & into admin msgs. (RB)
8402 P3FZ6: 2312 RTTY TR Motovskiy Zaliv in 50/170 crew TG's, ex-UGTM. (RB)
8402.5 ELQZ7: 0125 RTTY TR Frost 3 in 50/170 RYRY/DE to UIW, & into admin msg of long list of supplies needed from Chief Engineer. UTGN: 2002 RTTY TR Bukhta Uliss (VLD/VTF) in 50/170 crew TG's to Vladivostok Rdo. UDUR: 2108 RTTY RTMKS Admiral Starkov in 50/170 RYRY/DE to UIW, then w/2 admin msgs using ID of hull#/ID MA-1812. (RB)
8403 UACU: 0027 RTTY TKH Varnemunde in 50/170 RYRY/DE to UKB or RKB(?), & into crew TG's. (RB)
8403.5 UUZB: 2054 RTTY TKH Vostoch in 50/170 RYRY/DE to URL, & into crew TG's to same, no info on this vsl. ENVI: 2245 RTTY TKH Kapitan Soroka in 50/170 crew TG'S to Odessa (ODS/UMF). (RB)
8404.5 SQPO: 1614 ARQ M/S Ignacy Daszynski Polish bulk carrier w/PP opr chat, QTH Canada. V7AQ2: 1955 ARQ M/S Malbork II wkg Szczecin Rdo, POL w/QSL of msgs, this is the Ex-SQJV. UUUB: 2049 RTTY RKTS Marshal Sudets in 50/170 crew TG's to Sevastopol Radio. UVKG: 2114 RTTY RTMS Stratosfera in 50/170 RYRY/DE to URL, Sevastopol Radio, & into crew TG's, app is chg from UEIU (Russian to Ukraine c/s). SQNV: 2157 ARQ M/V Lublin II w/PP tlx, login 43103 SQNV. SNGC: 2311 ARQ M/V Armia Krajowa w/tlx tfc. (RB)
8405 UXQW: 2059 RTTY THRP Koroteev in 50/170 crew TG's to Mariopol Radio, admin msg from master, KM Ustimenko. (RB)
8405.5 UNNI: 2128 RTTY RTMS Chernyashev in 50/170 crew TG's. EOIQ: 2202 RTTY M/V Aram Khachaturya, BLASCO general cargo vsl, in 50/170 RR crew TG'S to Odessa (ODS/UMF). UCSA: 2204 RTTY RTMS Eysk in 50/170 crew TG's to Novorossiysk, off w/DE UCSA, no prior record of this vsl. UBHL: 2214 RTTY BATM Galaktion Tabidze in 50/170 RYRY/DE to UGW, into crew TG's to same, Novorossiysk Radio. UYUY: 2341 RTTY TKH Georgiy Chicherin in 50/170 admin msgs from master, KM Rogachev. (RB)
8406.5 LYMM: 2150 RTTY BATM Zaostrov'e in 50/170 RYRY/DE to UIW, & w/admin tfc to same. (RB)
8407 UKSY: 2321 RTTY NIS Akademik Boris Petrov, Russian research ship, in 50/170 RYRY/DE to UAT, & into crew TG's. (RB)
8407.5 C6NL4: 0150 RTTY TR Frio Sevastopogis in 50/170 RYRY/DE to URL, & into crew TG's, is Ex-3EUP9 apparently. UQTD: 0305 RTTY BKRT Mataliya Kovova in 50/170 admin msgs to Sevastopol Radio. PPIZ: 0712 RTTY TKH Chelekenskiy in 50/170 EE TG to DanSupp Copenhagen, for ETA. UAUO: 2242 RTTY NIS Akademik Sergey Vavilov, Russian research vessel, in 50/170 RYRY/DE to UIW, into DISP-1 reports from master, KM Kalanikov, also tlxs to Kaliningrad Meteo & 'Moscow Oceanologiya', note this is a chg from c/s UKOS. LYEP: 2303 RTTY RTMKS Koralas in 50/170 RYRY/DE to LYL, & into crew TG's, ex-Tel'Shay? (RB) UWMI RTMA SAPUN GORA 0515 RTTY 50/170 w/tlg's. (WT)
8408 UCBZ: 2019 RTTY BMRT Atoll in 50/170 "405 RPT" to Novorossiysk Radio from ships master, KM Fadeev. (RB)
8411 UGAA: 2349 RTTY Unid SA-0597 in 50/170 RYRY/DE to UAT, Moscow Radio & into admin tfc to same w/home port shown as Kholmsk (HLM/MRH) using only the hull#/ID SA-0597. (RB)
8411.5 UKWX: 0156 RTTY TR Kapitan Lazarev in 50/170 crew TG's. (RB)
8412 UZLJ: 0138 RTTY TKH Novopolotsk in 50/170 RYRY/DE to UGC, & into admin tfc to St Petersburg Radio from KM Mozhaev. P3UG3: 0439 RTTY TR Klaypedskiy Bereg in 50/170 crew TG tfc to Klaipeda Radio, is ex-LYAR now flagged-out, new call used after name in each tlx. (RB)
8412.5 USDB: 0335 RTTY BMRT 10 Pyatiletka in 50/170 RYRY/DE to URL & w/admin tfc/crew TG's (SVS/MRH). (RB)
8413 UPAR: 0058 ARQ TKH Akademik Shukhov w/crew TG's to St Petersburg Radio. YLAZ: 1631 ARQ TKH Fedor Bredikhins w/admin tfc from master, KM Uchakov. UWUC: 2140 ARQ TKH Novogrudok w/login for msgs to St Petersburg R, login 55461 UWUC. UULE: 2145 ARQ TKH Kolomna w/crew TG's to St Petersburg R. (RB)
8414 UHBT: 2230 RTTY TKH Kooperatsiya in 50/170 RYRY/DE to UFL, Vladivostok Rdo, & into crew TG's. (RB)

8414.5 DUTCH CG IJMUIDEN ? 2250 GMDSS 100/170 Selcall individual. Routine 244--46500 called by 244--392000 forrt on 8294/8294. (22532z). Dutch MMSIs. (DW)
8417 PORTISHEAD RADIO (GKE4) 0931 FEC N/Atlantic weather. (DW)
8420.5 HEC: Berne, Switzerland 0430 FEC Traffic List. (AB3)
8421 LYNGBY RADIO (OXZ) 1637 FEC Danish ship press, also at 0832. (DW)
8423 ATHENS RADIO (SVT4) 2103 FEC Ship press in Greek. (DW)
8431 KEJ, Hoolehua, Hi, US 1025 FEC short sport nx items, sked. (EW)
8432.5 PENNSUCO RADIO (WOM) 2048 FEC Wx forecast from NWS New Orleans. (DW)
8433 OCEAN GATE RADIO (WOO) 2046 FEC End of wx forecast. (DW)
8434 MOBILE RADIO (WLO) 2016 CW/SITOR Marker "WLO" and tuning bursts. (DW)
8435 TORS COVE RADIO (VCT) 2042 CW/SITOR Marker "VCT" & 8 tuning bursts. (DW)
8435.5 OOSTENDE RADIO (OST40) 2044 CW/SITOR Marker "OST" & tuning bursts. (DW)
8436 UNID. 0640 GMDSS 100/170 Coast DSC freq. 3 packets (? noise bursts). "Format Specifier: Error: No valid calling mode". (DW)
8453 HWN: Paris, F 0430 RTTY 75/850 French Navy RY. (AB3)
8478 FUF 0732 RTTY 75/850 Test tape Fort De France Naval (EC1)
8478.5 FUF Fort de France Martinique 1833 RTTY 100/850. (CC) FUF: 2225 RTTY 75/847 de FUF test tape ry's; sg's & #'s. (MR2)
8503.9 USCG NEW ORLEANS (NMG) 2100 FAX 120/576/N/800 Very weak outlines through noise. Florida? Gulf and SW N Atlantic? (DW)
8530 ATHENS RADIO (SVJ4) 0858 FAX 120/576/N/800 Hvy qrm. 100hz high. (DW)
8534 MOBILE RADIO (WLO) 0920 FEC American related shipping and MEBA (Union) news. Lygnby tfc list.Start of WLO telex info. 0935z chops svc re discont FAX. Solar Indices. Tropical Wx fcst - TS TANYA 625miles SE Bermuda. (DW)
8536 6WW: Dakar, Senegal 0430 RTTY 75/850 French Navy. (AB3)
8556 GOETEBORG RADIO (SAB44) 1703 FEC Swedish ship press. (DW)
8625 FUM: 1930 RTTY 75/850 Test tape Papeete Naval, Tahiti Naval. (EC1)
8650 SZCZECIN RADIO (SPB43) 2211 CW/SITOR Marker "SPB" ARQ but s/n ratio too low to sync on tfc. (DW)
8672.8 RN PITREAVIE (MTO) 2236 RTTY 75/N/850 CARB. With ID MTO. (DW)
8853.7 HGX: MFA BUDAPEPEST 0945 ARTRAC 125b encrypted 5LG's. (EW)
8876 Unid: North Korean diplomatic station 1800 RTTY 50/1000 w/traffic in Korean, frequent mention of Pyong Yang. (PS)
9046 Unid 1600 ARQ-E3 100b prob moi paris. (JK)
9046.2 Unid 0653 PACKET 200/20 Info on african air traffic(?) (ED)
9057 MFA BELGRADE [DFZG] 1430 RTTY 75/R/400 Startup. Online encryption after xyxyxyxy string. (DW)
9079.7 FF DJIBOUTI [RFQP] 0604 ARQ-E3 100/400 8CRC. Betas. (DW)
9109.9 USCG BOSTON (NMF) 2015 FAX 120/576/N/800 24hr sfc forecast. New NMF frequency. (DW)
9113.5 Zaire National Bank 1330 ARQ. (JK)
9114 MTI BUDAPEST (HGG31) 1000 RTTY 50/400 RY's and "RTT transmission for Europe and N Africa on 9.114 kcs"and English press. (DW)
9114.5 Irish Navy ARQ. (JK)
9118.6 ALGERIAN EMB TRIPOLI ? 1403 COQ-8 26.7/E/- 9118.656. On line encrypted tfc. 9118.632. Starts up trfc with"alg de trp" then online encryption of a few letters then no output on screen. (DW)
9135 RAF AKROTIRI (MKD) 1538 USB DCN 8 channel vft on USB. 6 of 8 channels idle. 2 missing. (DW)
9137.9 USN KEFLAVIK (NRK) 1540 FAX 120/576/800 en d of fax schedule. This freq not mentioned in freq list for Cutler & Iceland (Keflavik) at end of sked, old Keflavik 9318 not hrd. This freq not in phase w/8079.9/10864.9. Opr pblm? (DW)
9153 MFA WARSAW (SNN299) 0704 RTTY 75/250 Diplo broadcast w/Polish press. At 0709, w/Diplo broadcast to embassies. (DW)
9154 D4B: Sal Cape Verde 1920 RTTY 50/850 AFTN traffic to Santa Maria. (AB3) SAL AIR (D4B) 0805 RTTY 50/800 Marker "de D4B D4B D4B" & ry's. 50hz low. (DW)
9179 MFA BERN (HBD20/5) 1211 ARQ End of qso. Signs off w/ID HBD20/5. (DW)
9265 UNID. 0739 PICC-VFT Two channel piccolo vft on USB. (DW)
9265.5 UNID. 0741 PICC- 9265.510. Idle channel. (DW) Unid 0305 PICCOLO MK-6 Idle, FDM with 3 traffic channel, one order line. (ED)
9265.9 UNID. 0740 PICC- 9265.910. 6 tone piccolo, on line encrypted. (DW)
9266 MFA BRATISLAVA 1010 RTTY 100/400 Diplo press summary in Slovak (?).

At 1000 w/Start up ry's and "cq de OMZ66" followed by diplo news summary. (DW) MFA BRATISLAVA, SVK 0954 RTTY w/100/400 msgs & nx (SS)
9278 MFA PRAGUE 0810 RTTY 100/400 Diplo press summary in Czech p/l. At 0800 w/RYs & "cq de OLZ88" start-up sequence followed by diplo press summary. (DW)
9285 Unid 1315 ARQ. (JK)
9317.9 USN KEFLAVIK (NRK) 1320 FAX 120/576/N/800 Chart of N Atlantic. Surface pressure forecast. (DW)
9319 UNID 2321 ARQ-E 72/400 4CRC. Betas. 80hz low? (DW)
9331.7 Egyptian Embassy 0224 ARQ Arabic, probably Cairo, Egypt. emb. (ED) Unid: Egyptian Emb 2255 ARQ w/msgs in AA. (RM)
9340 TASHKENT MET (RCH72) 1136 FAX 60/576/800 Chart w/plotted obs. (DW)
9360 COPENHAGEN MET (OXT) 0022 FAX 120/576/N/800 Ice chart. (DW)
9438 TOKYO MET (JMJ3) 0751 FAX 120/576/800 Noisy chart w/faint outlines. (DW)
9453 MFA WARSAW (SNN299) 0901 ARQ/POL//100/E/200 4CRC. Long period of betas. Nil for London (Londyn). Long list of qsl's for tfc, ending ".end of file: qsl." At 0915 Tfc list shows tfc for Weiden (Vienna?). (DW)
9797 ROMPRES BUCHAREST (YOJ27) 0903 RTTY 50/500 EE press. At 0957, start up sequence "RY's 1A's ici Bucharest, ROMPRES. Voici notrepremiere emission en language francaise du 09.11.199=" (DW)
9970 TOKYO MET (JMH3) 0746 FAX 120/576/N/800 End of wave prognosis. (DW)
9983.2 Portuguese State Police Net 0800 ARQ Traffic from Ponto Delgado. Same at 1254, w/end of qso and at 1344 w/"zbo2", two msgs from CRP.Delgada - situation ok. Also message "a. antena 1. b3." (DW)
9983.2 VISEU NET 1310 ARQ New? PSP channel. "To supintger/PSP de planeamente operacoes e controlo (do)." Reply from 20040 cdpdl (unid). (DW)
9983.7 RFFA: Mindefense, Paris, F 1706 ARQ-E3 100b w cdv. (RM)
9994 SANTA MARIA AIR (CSY) 1058 RTTY 50/800 150hz low. Air traffic cct [MCA] to Sal Air. Transmitter slightly unstable. (DW)
10116.9 BAF4: BEIJING MET 0845 FAX 120/576/800 Surface pressure chart. (DW)
10121.1 CAIRO MET (SUU) 1555 FAX 120/576/800 End of first chart (east to India/Sri Lanka). Second chart has dark area down length as if plastic cover of tx unit dirty. (DW)
10130 TASHKENT MET (RBX73) 0945 RTTY 50/1000 Met traffic. Station w/same freq but with 850hz shift (looks encrypted) causing qrm. (DW)
10151.9 MFA STOCKHOLM 1429 ARQ-SWED 100/400 Switching 3,9,22CHB. Tfc in Swedish p/l to Islamahbad, Riyahd, New Delhi, Peking. Tfc in offline encrypt to Peking. (which is relay to othrs?) Suddenly off air before end of msg. (DW)
10170 BANGKOK MET (HSW63) 1543 RTTY 50/R/200 Met traffic. (DW)
10177.7 Unid French Forces 2030 ARQ-E3 192/390 Police msg to groupgend Cayenne. (MR2) [see next logging -RD] RFFA: MOD PARIS, F 2001 ARQ-E3 w/192/380 idle (SS)
10186.3 Unid: w/encryption, 100/850 at 1931. (RM)
10212 British Army 1745-2000 VFT: ARQ-M2 96. (JK)
10215.3 HZN48, Jeddah Meteo, ARS, w/wx, 100/850 at 1935. (RM)
10219.2 PHFS MOSTAR 0800 ARQ-E 72/85 One section of short German. Opr chat. The encrypted message.Not on at time when 7898 on and idling betas. Same at 0750 again one (or 2?) sections of short German. No tfc, & SKSKSK to end. At 0730 w/Betas from start-up. No tfc during day but occ opr chat confirms Mostar. At 0145 same, reported paired with 7898 (PHFS Bonn). 4CRC. Betas. No tfc. Same at 1546 Lately qrm fm carrier 200hz up. then apparent signal falloff of offair. No end of transmission opr chat logged. (7898 noted on steady space). (DW)
10250 MADRID MET 1604 FAX 120/576/800 300 hpa analysis. (DW)
10264.3 Unid: w/encryption at 1938, 100/850. (RM)
10281.3 Unid 0234 ARQ-E3 192/354 idle. (MR2) RFLI: 2045 ARQ-E3 192b/375 Details of forthcoming military examinations in Feb. Then half-hourly control de voie messages. (KB2)
10298.8 HSW62: Bangkok Thailand 1846 RTTY 50/170 Meteo. (AB3)
10310.8 Unid: w/encryption, 100/850 at 1940. (RM)
10314 MFA WARSAW (SNN299) 0831 ARQ-POL 100/250 4CRC. Tfc in Polish p/l. Economic bulletin in English. Same at 1024, w/QSL to Helsinki, & qru. Then "end of file:wyslij.mnu." & offair. (DW)
10348.1 Unid 0224 ARQ-TD2 96/100 In FDM, ARQ-M2/342, idle. (ED)
10388 POLISH EMB ROME 1036 ARQ-POL 100/170 4CRC. Tfc in offline (5fig

grps) encrypt "end of file:dod.:odbierz: wyslij:rzym". Betas. (DW)
10415 MFA WARSAW (SNN299) 0710 RTTY 75/250 Diplo broadcast including Polish press, QTC list/tfc rpt, spacetone unstable. Tx eventually hung with single tone just off centre then drifting low. At 0711, Diplo broadcast to embassies. (DW)
10417.1 Unid 0344 ARQ-TD2 96/140 in FDM, ARQ-M2/342, idle. (ED)
10422.5 MFA VIENNA 0809 ARQ-S 96/170 CRC5.Traffic in offline encryption. (DW)
10428.3 Unid: 1971 RTTY 75/850 w/encryption. (RM)
10493 MFA BUCHAREST [V5G] 1132 FEC-ROU 164.5/400 BImask=24. Diplo press summary in Roumanian. (DW)
10493.7 FF PORT BOUET [RFTJF] 0813 ARQ-E3 48/400 8CRC Betas. Cct ID corrupt, has "FJ". Offline encrypted data. (DW) RFTJF: FF, Port Bouet, CTI 2042 ARQ-E3 48b idling. (RM)
10536 CF HALIFAX (CFH) 1710 FAX 120/576/800 Isobaric prognosis. N. Atlantic. (DW) CFH: CF Meteo Centre, Halifax, NS, CAN 1900 120/576 w/fax wx charts. (RM)
10551 Bracknell 1519 RTTY 75b Wx for LD**, LI**, and LY** stations. (RC)
10551.3 BRACKNELL MET (GFL23) 1254 RTTY 75/N/400 Met traffic. (DW)
10576.8 Unid: 1942 RTTY 75/850 w/encryption. (RM)
10583 Brotherhood Net 1526 RTTY 75b 5LG's ended at 1531 "QRU QRU SK SK". (RC)
10600 VNA: Hanoi 1245 RTTY 50/480 w/nx in FF. (PT)
10638.7 RFQP: FF, Djibouti, DJI 1903 ARQ-M2 200b w/"controle de voie" on ch A (QRG ct) & ch B (QRF ct). (RM)
10689.8 Unid 0155 ARQ Wide shift, weak, no ID. (ED)
10738.2 Unid 0029 ARQ Ecuador, Japanese embassy traffic, Ecuador to Havana. (ED)
10761 VER, CF, Ottawa, ON, w/encrytion on all VFT channels through 10763.0 at 1312. Was 170/75 & was xmtd to Alert, NT, CAN. (RM)
10796.3 RFLI: FF Fort de France, Mart. 1740 ARQ-E3 192/258 controle de voie. (MR2)
10830 ULV: MOSCOW METEO 0832 RTTY 50b wx. (EW)
10855 GXQ: British Army, London G 2225 VFT RTTY 1.5,50, diversity test.(EW)
10857.5 RFHWW 0929 ARQ-M2 128.5/100 Papeete, Meteociv, C. I. = "IOA" & "IOC". (ED)
10865 USN CUTLER (NAM) 1705 FAX 120/576/800 Satellite pix. At 1544 w/ Transmission schedule. (DW) NAA: USN, Cutler, ME, 1850 120/576 w/fax chart. (RM)
10873.8 Unid FF 1755 ARQ-E3 100/372 Reunion messages. (MR2) RFVI: FF, Le Port, REU 1805 ARQ-E3 100b relaying "de Paris...controle de voie" msg back to Paris. (RM)
10917 MFA WARSAW (SNN299) 0641 ARQ-POL 100/180 Summary of tfc - (qsl's?) of tfc from Pekin (Beijing). (DW)
10917.7 Unid FF 1830/1930 ARQ-E3 48/354 Dakar-messages re disposition of forces thru Marseille & Rochelle; controle de voie 5LG, NATO route indicators of RFTJf, RFFwad & RFFbbc. RFTJ: FF Dakar 1200 ARQ-E3 48/401 controlie de voie. (MR2)
10945 CFH: Canadian Forces, Halifax, CAN 1242 RTTY 75/844 w/"NAWS DE CFH". (PT)
10980 MOSCOW MET (RDD79) 1026 FAX 90/576/N/800 Small chartlets //7750. (DW)
11011 ZLO29, RNZN, Irirangi, NZL, w/encryption on all VFT channels through 11013.0, 75/170. Xmtd to Vancouver, BC, CAN. (RM)
11030 MELBOURNE MET (AXM34) 0837 FAX 120/576/N/800 End of chart - area South Pacific E of Australia. (DW)
11043.7 FF DOUALA [RFTJD] 1344 ARQ-E3 192/400 8CRC. Betas. Controle de voie svc "OO RFTJ de RFTJ". Cct [JDJ]to Dakar. (DW)
11046.9 MFA STOCKHOLM ? 1425 ARQ-SWED 100/400 Weak/fading. Tfc in Swedish p/l or betas. 22CHB. (DW)
11085 RFGW: MFA PARIS, F 1142 FEC-100 192b idle. (EW)
11106 Unid 1200 ASCII various speeds, mainly 110 & 150b, also at 75 and 300 occasionally; was setting up a link with another station, changed frequency three times, first to 13363 KHz, then to 14417 KHz, before he ended up at 15763 KHz. When he was setting things up he used 110 baud and every letter came out 3 times (e.g. OOOKKK). He would then send lists of numbers at 150 baud, but these only came out once. DOR, Sofia? (PT)
11106.3 Unid 0155 ARQ-TD2 128.5/100 Idle. (ED)
11110.5 RFLI: FF FORT DE FRANCE, MRT 2355 ARQ-E3 w/192/425 C de V (C/I BFL)

(SS)
11131.9 RFHWWO 0304 ARQ-M2 128.5/100 Papeete Meteociv Papeete, Ch B C.I. = "IOA",Meteo,Press. (ED)
11133 XINHUA BEIJING (BZG41) 1440 RTTY 50/N/400 Marker "qra qra qra de BZG41 BZG41 BZG41 BZG41 XINHUA Beijing" and RY's. (DW)
11139 Belgrade, Serbia 0640 RTTY 75/400 Online crypto, also 13397. (AB3) Unid 1110 ARQ-E 288b encrypted. (EW)
11139.3 PWN: BN, Natal, B 2149 RTTY 75/850 w/"preferencial" tfc in PP to "JN." (RM) PWF33: Unlisted Brazilian Naval station, Brazil 2312 RTTY 75/852 clg PWQZ. (PS) [Natal Naval, B, PWQZ is unid naval vsl -RD]
11173.5 MFA PARIS [RFGW] 1338 FEC-A 192/400 Tfc in offline encryption. (DW)
11200 Unid Turkish sta: 1230 ARQ w/tfc in Turkish. (PT)
11327.5 MFA OSLO, NOR 1210 CCIR 476 TWINPLEX 100b encrypted. (EW)
11417.1 RFFTA, `RFFP' MOD Paris, F 1159 ARQ M2 200/340 relaying 5LG's to to `RFFVAY' Sarajevo. Circuit [FDXA] //11520 Mhz. (PS)
11423.5 WARSAW RADIO (SPW) 1825 FEC Ship press in PP. (DW)
11450 MOSCOW MET (RDD77) 0839 RTTY 50/1000 Met traffic. (DW)
11453 ROME MET (IMB3) 1648 RTTY 50/850 Met traffic. 10 bit frame. (DW)
11467 MFA WARSAW (SNN299) 0714 RTTY 75/N/250 Diplo broadcast to embassies. (DW) SNN299: Warsaw, POL 0700 RTTY 75/170 w/diplo tfc for Africa, in Polish. (RH)
11468 Unid: 230/50.8 encryption, at 1321. (RM)
11471 MFA WARSAW (SNN299) 0724 ARQ-POL 100/250 4CRC. Traffic in Polish & offline encryption (fig groups) to Trypoliss (Tripoli) until ".end of file". Receipt svc for traffic from Tripoli for 4 msgs. (DW)
11492 Unid 1248 81 81 RUS, encrypted. (EW)
11538.2 Unid: 2235 ARQ-E 96b German diplo idling. (RM)
11622 USAF AWS ROOSEVELT ROADS 1727 FAX 120/576/800 N Hemispheric chart. (DW) [NRR is a U.S. Navy xmitter sending USAF/KAWN charts.
11638 DDK8: Hamburg Germany 0852 RTTY 50/400 Meteo GG. (AB3) HAMBURG MET (DDK8) 0857 RTTY 50/400 Wx, corrupted. Same at 1249. (DW)
11659 Remington Numbers 1528t AM (EE/5F/w) //13687.5, "Count 208", Rpt @ 1529. (MF)
11680 XINHUA BEIJING (BZP51) 1433 RTTY 75/400 EE press. (DW)
12110 ROMPRESS BUCHAREST (YOM21) 1110 RTTY 50/500 EE press. (DW)
12114 MFA SOFIA 0943 RTTY 75/500 Tfc to various embassies in Bulgarian p/l. (DW)
12123.9 NORWEGIAN EMB KIEV 0800 TWINPLEX 100/E/- -400/-200/200/400. F7b-1. Tfc in Norwegian p/l signed NORAMB KIRV. (DW)
12165 MOSCOW MET (RKB78) 1029 FAX 90/576/800 Chart w/plotted observations. (DW)
12181 MFA MOSCOW, RUS 1035 PICOLLO 33 TONES encrypted. (EW)
12190.3 MFA SOFIA ? 0903 RTTY 75/500 Opr echanges. "zar600" "zok" "zar300" then change into unid mode? PSK? (DW)
12208 MFA BRATISLAVA 1008 RTTY 100/400 Diplo press summary in Slovak (?). (DW)
12210 MFA PRAGUE 0815 RTTY 100/400 Diplo press summary in Czech p/l. (DW)
12212.5 TANJUG BELGRADE (YZI234) 1719 RTTY 50/400 FF press. At 1032, EE press, 100hz high. (DW)
12216 Czech Diplo, Czech 0850 RTTY 100/400. (AB3) MFA PRAGUE 0814 RTTY 100/400 Diplo press summary in Czech p/l. (DW)
12219 UNID. 1143 ARQ-E 96/200 8CRC. Online encrypted tfc. (DW)
12222 UNID: 1347 ARQ-E w/288/170 idle (SS)
12228 MFA WARSAW (SNN299) 0717 RTTY 75/250 Diplo broadcast to embassies. (DW) MFA MOSCOW, RUS 1033 PICOLLO 33 TONES encrypted. (EW)
12228.4 XINHUA BEIJING (BZR62) 1437 RTTY 75/400 EE press. (DW)
12229 UNID: 1800 81-81 81/170 alternating mark/space tones into enc. (SS)
12267.5 Saudi border guards 0830 FEC 125. (JK)
12478 TCGG: 1647 ARQ M/V Gunay A. w/req for QSL of SVC+ tfc sent. (RB) N/A: MV Vladivostok Senator 1812 ARQ rx only Sig 20/9. login 24559 VLAS. [c/s is ELPL2 -RD] KCGH SS Kainalu 1726 ARQ AMVER/PR, 3047N 14117W. login: 10786 KCGH. KCGH SS Kainalu 1743 ARQ email via KFS (in telex mode). login: 10786 KCGH. WSRH SS Kauai 1805 ARQ wkg KFS w/BBXX. WRJP M/V R.J.Pfieffer 2015 ARQ wkg KFS w/tls. login: 03834 WRJP. WRJP: M/V R.J.Pfeiffer 2115 ARQ rx only, login: 03834 WRJP. KNLO: SS MANUKAI 1804 ARQ W/WX BBXX, AND E-MAIL (RFRF). (WT)
12479 P3VL2: Pontoporos 1645 ARQ tlx for Ocean Freighters, Piraeus, vsl selcall 56329. SQGI: Tadeusz Ocioszynski 1654 ARQ AMVER/PR, selcall

43053. 3EMP3: Teseo 1846 ARQ AMVER msg. (AB2) C6KV3: 2130 ARQ Canterbury Star w/noon posn report tlx. (RB) ELFR2 M/T Sentinel 2119 ARQ AMVER/PR, 1830N 07449W.missed login.. (WT)
12480 UBVS: Komsomolets Ussuriyska 0029 ARQ crew TG's, selcall 55630. (AB2)
12480.5 P3HS2: Global Dream 1712 ARQ payroll tlx. (AB2) UICM: 1715 ARQ TK Ulyanovsk w/crew TG's login 23191 ULYA. LAIJ2: 1724 ARQ M/V Dyvi Baltic w/arrival report tlx, login 26900 LAIJ2. 9HLT4: 1810 ARQ TK Nodar Dumadze w/crew TG's app is Ex-URRK. (RB) D5GV ?? MV Atlantic Pride 2357 ARQ w/tlx, eta Hachinohe JA. login: 26455 APRIDE. unid M/V KAVO MALEAS 2258 ARQ w/tlx, selcall 63339. (WT)
12481 C6ML4: 1815 ARQ TH Kapitan A Dotsenko w/tlx tfc. (RB)
12482 ELIR2: Gulf of Pirian 1755 ARQ AMVER/PR 40.2N/73.51W. (AB2) C6KY5 M/V ZIM SANTAOS 1742 ARQ W/AMVER/PR, LOGIN: 61399 KLAD. (WT)
12482.5 TCMG: MV Pinar Kaptanoglu 2331 ARQ w/tlx, login: 65794 TCMG. (WT)
12483 9MYK: MV Bunga Kantan 1815 ARQ msg to harbor pilot re 1 day notice; eta columbia river; via/SF Radio. (MR2) P3SD2 Diomedes 1943 ARQ chkin, QRU, login: 00575 P3SD2. 3FTQ4 MIN NOBLE 2215 ARQ AMVER/PR, 4924N 13956W, ETA Vancouver. Login: 42034 MINN. UTIZ M/V NOVGOROD 2214 ARQ W/SVC, LOGIN: 55228 UTIZ. (WT)
12484 OYID2: Malene 1637 ARQ posn rpt, 19.56N/131.52W, ETA Honolulu. (AB2)
12485.5 P3NO4: MSC Jade 1729 ARQ msgs. (MR2) 3FLH: 2254 ARQ M/V Sirocco salvage tug w/SVC tfc. (RB) unid 1824 ARQ login: 61384 CTBS, can't ID this one.. (WT)
12487.5 C6JF2 MV California Star 1827 ARQ w/tlx, login: 61784 CSTR. SVEJ M/V Sea Trident 0102 ARQ w/tlx via KPH. login: 16985 SVEJ. (WT)
12489 UADK: Gruper 0049 ARQ tfc for Petropavlovsk. (AB2)
12490.5 ELKS4 M/V Front Breaker 1930 ARQ w/tlx, anchored Corpus Christi.(WT)
12493.5 P3VS2: 1715 ARQ M/V Homer w/tlx to Zimbulk Haifa for posn, login 27529 HOMER. (RB)
12495 Unid 1920 ARQ vsl sending KYXX-idle, this is a ship sending a selcall, KYXX is the selcall for Novorossiysk Radio, RUS. (MR2)
12495.5 D5DI: 2010 ARQ M/V Acadia Forest, dry goods cargo ship w/tlx to Centraship Nola, login 24846 D5DI. (RB)
12496.5 UODC: Kovrov 1909 ARQ tfc for Limassol Inc fm vsls Ch. Engineer. (AB2) OWGU2: M/V Charlotte SIF 1925 ARQ tlx re tickets then parts info. Msgs in EE & Danish. (MR2) 3FDP PDTE. FREI 0058 ARQ w/tlx, eta Cristobal. login: 42972 3FDP. (WT) [M/N Presidente Frei abbrev -RD]
12497 UKYV: 1748 ARQ TKH Boris Livanov w/MSKTLG crew TG tfc to Moscow Rdo. (RB)
12497.5 WEHV SS Overseas Alaska 2022 ARQ rx only, login: 11084 WEHV. (WT)
12499 OULQ2: 1512 ARQ M/V Christina C. w/tlx for ETA Halifax, login 03988 OULQ. (RB)
12502 3EAW7 M/V PACIFIC RIDER 2024 ARQ W/TLX, LOGIN: 42593 3EAW7. (WT)
12503.5 P3HR2: Belgrano 1929 ARQ OBS msg. (AB2)
12509 C6AF3: Kenneth T. Derr 0017 ARQ test msg via "Honolulu Radio". (AB2)
12510 Unid 1759 ARQ qru/qru, login: 26617 FRINES. caught this login several times, unable to ID. (WT) [probably 3FJH3 -RD]
12537.5 P3BK2 Beaulieu 2300 ARQ w/tlx. (WT)
12547.5 BPDM: unid 1917 ARQ wkg XSG in OPR mode, QRX 2230. login: 20235 BPDM. (WT)
12560 unid Alaska Mist 1940 ARQ wkg unid ship on ships freq, sent crew list (19 members). (WT)
12561 P3TJ5: 1719 CW Ellispontos wkg unid coastal sta w/1 tlx. (RB)
12562 UGNX: 2041 RTTY TKH Komsomolets Litvy in 50/170 EE tlx to Victory Shipping to confirm point of entry to Amazon River, vsl uses abbrev. KSM for Komsomolets. UIIE: 2051 RTTY TKH Vil'yam Foster in 50/170 crew TG's to St Petersburg Radio. (RB)
12562.5 EWAK: 1431 RTTY TR Polyarnyy Krug in 50/170 RYRY/DE to UIW, into admin msgs (MRM/MRH) from master, KMD Markov. UJZZ: 1438 RTTY PB Polyarnaya Zvezda in 50/170 RYRY/DE to UIW, no joy. ENZZ: 1446 ARQ TK General Merkzhiladze, w/admin tfc from master, KM Labadze. EWML: 1914 RTTY BMRT Aleksander Bogolyubov, in 50/170 crew TG's to K-Grad. UFZE: 1935 RTTY BMRT Ivan Dvorskiy in 50/170 RYRY/DE to UIW, & into admin tfc, crew TG's (KLD/UTF). EMXD: 2118 RTTY RTMA Timofey Gornov in 50/170 crew TG's. (RB)
12563.5 9VMP: 1632 ARQ M/V Front Rider w/tlx to Singapore. (RB)
12564 UOUV: 2031 RTTY TKH Novodruzhsk in 50/170 admin tfc re msgs sent via UWRV. UWUA: 2243 RTTY TKH Novozybkov in 50/170 RY, & into tfc to St

Petersburg Radio. (RB)
12564.5 UIMH: 0139 RTTY TR Tambov in 50/170 RYRY/DE to UIW, & w/crew TG's. ENZV: 2012 RTTY TKH Al'debaran in 50/170 TG for ETA Dakar, SEN. (RB)
12565.5 UNOJ: 2259 FEC TKH Dekabrist w/RYRY/DE to UGC, St Petersburg Rdo. (RB)
12567 YLFN: 1440 RTTY RTMS Inzhener Yudintsev in 50/170 RYRY/DE to UKQ, & into crew TG's using hull#/ID RTMS-7567, also sends same for YLFU. (RB)
12567.5 EVBD: 1727 RTTY RTMA Dionis in 50/170 crew TG's to Kaliningrad, vsl bound "Lapland". UPVU: 2004 RTTY Tol'ko Bereg? in 50/170 RYRY/DE to UIW, & into tfc to Arkhangelsk, using hull#/ID AB-0594, unk prefix for this vsl, c/s change? UEXI: 2008 RTTY RTMA Il'men' in 50/170 RYRY/DE to UIW, & into admin TG's to K-Grad from master, KMD Semak. (RB)
12568.5 YLFB: 1558 RTTY RTMS Aitsinayams in 50/170 in admin tfc using hull#/ID RTMS-7552, w/tfc to Riga from master, KM Dozrikov. (RB)
12569 URCK: 1550 RTTY UPS Kursun in 50/170 RYRY/DE to URL, & w/C51 report. YLFP: 1618 RTTY RTMS Misa in 50/170 crew TG's to Riga Radio using hull#/ID RTMS-7579. YLEP: 1626 RTTY BMRT Robert Eydeman in 50/170 admin tfc to Riga Radio using hull#/ID BMRT-249, apparently is ex-ESFR. YLFS: 1702 RTTY BATM Kapitan Jedemskis in 50/170 RYRY/DE to UQK (Riga's old c/s) & into crew TG's using hull#/ID LZ-6119+ name. YLFT: 1712 RTTY BATM Serge Esenin in 50/170 admin TG's using hull#/ID BATM-6123. LYLN: 1818 RTTY RTMKS Daukantas in 50/170 RYRY/DE to LYL, & into crew TG's using hull#/ID RTMKS 0905 +name. (RB)
12570.9 UWKI: 2040 RTTY TSM Karacharovo in 50/170 RYRY/DE to UIW, & w/admin msg from master, KMD Andreev. (RB)
12572.5 LYLW: 0030 RTTY STR Granat 50/170 w/crew TG's to K-grad using hull#/ID STR8258. (RB)
12573.5 UALU: 2027 RTTY NIS Atlantida in 50/170 crew TG's (KLD/MRH). (RB)
12574 USRV: 1629 RTTY BATM Marshal Yeremenko in 50/170 crew TG's using hull#/ID MA-0064 (MRM/KRH). (RB)
12577 UNID. 0720 GMDSS 100/170 16 calls in total. None of MMSI used identifiable as to nationality other one to Lyngby. (DW)
12579 USCG BOSTON (NMF) 1630 FEC Wx forecast. (DW)
12580 SPA: GDYNIA RADIO, POL 1010 ARQ CW CQ. (EW) [probably sitor free ID rather than a CQ marker - not 12580.5? -RD]
12582.5 FFT61: SAINT LYS R, F 1821 FEC nav warnings in F (SS)
12590 EAD, MADRID, S 0922 ARQ CW CQ. (EW) [same as 12580 -RD]
12601 CAPETOWN RADIO (ZSC63) 1233 FEC Wx for South African waters. Return to marker "de ZSC sitor svck" and long dash. At 1706 w/Navigation warnings. (DW) ZSC63, Cape Town R., AFS 2033 ARQ w/"de zsc sitor svc k" in CW. (RM)
12601.5 LYNGBY RADIO (OXZ) 1638 FEC Danish ship press. (DW)
12611.5 KEJ: HOOLEHUA, HI, US 1017 FEC transmission sked. (EW)
12657 UNID. 0721 GMDSS 100/170 Monitor to disc. Coast station DSC freq. Three packets (? noiseburst). "Format specifier: Error: No valid clg mode". (DW)
12664.2 FUM: FF TAHITI, TAH 1017,FUM RTTY 75b RY test. (EW)
12669 LOR: AN PUERTO BELGRANO, ARG 0900 RTTY 75/170 SS msgs (SS)
12697 USU: MARIUPOL RADIO, RUS 1013 RTTY 50b msgs to ships WTSCA. (EW)
12750 unid 0200 FAX mid atlantic wx chart for vsl LINDQUIST. (EC1) [NMF, USCG Boston, Ma -RD]
12818 GOETEBORG RADIO (SAB63) 1704 FEC Swedish ship press. (DW)
12932.2 Unid 1005 RTTY 100b encrypted. (EW)
12992 MOBILE RADIO (WLO) 1345 FEC Wx. (DW)
13050 MURMANSK RADIO (UDK2) 2311 3SC 50/170 Traffic in 3SC to MTR ukovvwlowmj. (DW)
13363 Unid 1200 ASCII various speeds, mainly 110 & 150b, also at 75 and 300 occasionally; was setting up a link, see 11106 log. (PT)
13366.4 NAIROBI AIR (5YD) 1410 RTTY 50/400 Cct [KVA]. Air tfc to Addis Ababa Air. (DW)
13397 Belgrade, Serbia 0630 RTTY 75/400 Online Crypto, also 11139. (AB3)
13399 MFA BELGRADE [DFZG] 1438 RTTY 75/400 Online encrypted tfc. (DW)
13414.5 MFA MADRID 1403 TWINPLEX 100b -200/-85/85/200. F7b-1. Offline encrypted tfc in 10 ltr grps. (DW)
13419 Possibly "6XM8," BND, Bonn, D, w/encryption, ARQ-E/288 at 1545. (RM)
13422.9 RFHWWO 0109 ARQ-TD2 128.5/100 Papeete Meteociv Papeete, C.I.="IOC".

(ED)
13438.5 Unid 1025 FEC No speed taken, Idling. (EW)
13438.6 PIAB BONN (DGN43H1) 0825 FEC-A 96/100 Start up sequence. New callsign noted - DGN42H1. German press.All poor copy. (DW)
13440 TANJUG BELGRADE (YZI235) 1035 RTTY 50/400 EE press. (DW)
13444.2 RFQP, FF, Djibouti, DJI, w/cdv on DJI ct at 1503, ARQ-E3/100. (RM)
13470 MOSCOW MET (RKU71) 1035 FAX 120/576/800 Upper air forecast chart. (DW)
13510 CF HALIFAX (CFH) 1715 FAX 120/576/800 Isobaric prognosis. N. Atlantic. (DW)
13530 MOSCOW MET (RVW53) 0841 RTTY 50/1000 Met traffic. (DW) AFS, Offutt AFB, Elkhorn, NE 1504 RTTY 75/824 w/"KAWN" wx data & "KNHC" wx forecast. RVW53, Moscow Meteo, RUS, was always heard here--until now. (RM)
13542 PRETORIA MET (ZRO3) 1834 RTTY 75/400 Met traffic. S African 1800z obs. (DW)
13570.9 DGN5711: PIAB Germany 0910 FEC-A 96/400 NX GG. (AB3)
13597.4 ROME MET (IMB56) 1242 FAX 120/576/800 Distorted upper air chart. (DW)
13687.5 Remington Numbers 1527t AM (EE/5F/w) //11695.0, "Count 208", Rpt @ 1529. (MF)
13809.5 Unid: 1620 PICCOLO w/idling xmsn, QRT at 1633, encrypted piccolo channel on same time on 13809.9. (RM)
13839.7 RFFA: MOD PARIS, F 0835 ARQ-M2,AR2 200/425 idle. (EW) RFFTPA (=Comelef Ndjamena) 1025 ARQ-E3, 200b/392 w/5-letter tfc. for RFFUGI (= Air-Moyengene istres). (JJ2)
13846.7 RFVI, FF, Le Port, REU 1820 ARQ-E3/100 idle sig. (RM)
13875.4 MFA BUDAPEST (HGX21) 0744 ARTRAC 125/170 Tfc in offline encryption. (DW)
13882.4 RFHWWOG 0200 ARQ-TD2 128.5/100 Papeete in FDM, Meteo, C.I. = "IOD". (ED)
13882.5 DDK6, Pinneberg Meteo, D 1526 FAX 120/576 w/wx chart. (RM)
13886.7 FF PARIS [RFFA] ? 1204 ARQ-E3 192/400 Characteristics of listed station but signal poor and unable to sync consistently. (DW)
13887.9 RFHWWO 0131 ARQ-TD2 128.5/100 "RFHWWO" Papeete in FDM, C.I. ="IOA". (ED)
13900 TAIPEI MET (BMF) 0923 FAX 120/576/800 Forecast in Chinese print, followed by wave analysis? for W Pacific. (DW)
13915 HBC88: ICRC, Geneva, SUI 1506 PACTOR w/ICRC nx in FF. (RM)
13939.8 Unid 1305 RTTY 500/170 KCNA in FF., new freq.? (ED)
13940.7 FF PARIS [RFFA] ? 1230 ARQ-342 200/400 Characteristics of listed station but signal poor/unable sync. (DW)
13951 HBD-20/5 MFA Berne 1612 ARQ HBD-20/5 Berne 5lg's, "end of message" at end. (ED)
13953.8 Unid 2325 PACTOR 200/200 EE/msg., somewhat odd, is this a Mars freq.? (ED) [I don't show any such logs -RD]
13954.5 HBD46, Swiss Emb., Havana, CUB 1255 ARQ w/msg to MFA, Berne. (RM)
13954.6 Proud Eagle clg Snow Drift 2000 USB for 10 mins, no joy. (RM) [merchant vsls! M/V Snow Drift is C6ID9 -RD]
13956.5 MFA TUNIS 1518 FEC Rq for rpt. VHX de 5D6. Appears qrm between the two. Opr ex in FF. Eventually tfc in offline encrypt (2 msgs). No acknowledgement. (DW) Tunisian diplo stas 2GF, WKQ & F6H 1858 FEC w/ry's & op msgs in FF. (RM)
13957 POLISH EMB RABAT 1046 ARQ-POL 100/260 4CRC. Betas. 110zz ":wyslij: rabat gr". Polish opr chat. ":grupuj: 006 007 008". Further betas. (DW)
13958.5 HBD-20 MFA Berne 2225 ARQ idle, selcal, ID, no traffic. (ED)
13961.5 Unid: 1535 ARQ w/BMIF selc. HBD20/3, MFA, Berne, SUI 1507 ARQ w/5LG to Moscow ambassador. (RM)
13963 HBD20, MFA, Berne, SUI ARQ w/5LG to embassy at Rabat, MRC. (RM)
13986.7 FF PARIS [RFFA] 1256 ARQ-E3 192/400 8CRC. Poor sync. (DW) RFLI, FF, Fort de France, MRT 1350 ARQ-E3 192b RQ sig. for over 2 hrs. (RM)
13996.5 STK, Khartoum Air, SDN 1738 RTTY 50/400 w/"ZCZC ryryry... qjh hsssyfyx nnnn." (RM)
14339 MFA WARSAW (SNN299) 0720 RTTY 75/250 Diplo broadcast to embassies. (DW)
14363 Unid 1526 ROU-FEC 164.5/400 ? Rumania Rum. press circulars. (ED)
14367 XINHUA BEIJING (BZP54) 1120 RTTY 75/400 Press in EE. Same at 1220. (DW) Xinhua Beijing 1000 RTTY 75b/378 RYRY BZP54/BZR68 + news. (JJ2)

14373 KAC: 2055 RTTY 75/500 rys + 5fgs (SS)
14377 CCS: Santiago, Chile 0830 RTTY 50/850 5LG tfc to LZIA. (AB3)
14417 Unid 1200 ASCII various speeds, mainly 110 & 150b, also at 75 and 300 occasionally; was setting up a link, see 11106 log. (PT)
14467.3 DDH8, Pinneberg Meteo, D 1530 RTTY 50/400 w/ry, cq, freq. list. (RM)
14478.5 MFA VIENNA 1334 ARQ-S 96/200 5CRC. Tfc in German (news summary). (DW)
14488.5 MFA VIENNA 0818 ARQ-S 96/170 6CRC. Tfc (Seite 2 zirkular/2 page circular)) in offline encryption. (DW)
14501.7 Egyptian Emb., Rabat, MRC, w 5LG to Cairo, ARQ at 1337. (RM)
14518 MFA VIENNA 0915 ARQ-S 96/200 End of tfc in German then irs mode. QSL for tfc then CLEAR++. At 0733, Tfc in offline encryption. Zirkular. (DW)
14573 JANA TRIPOLI 1613 ARABIC 50/400 Arabic (ATU70) press. (DW)
14573 Unid 0822 FAX 120/576 wx. (EW)
14585.7 RFPTC: FF N'DJAMENA, CHAD 0834 ARQ-E3 200b idle. (EW) RFPTC, FF, N'djamena, TCD, w msgs on FDZ ct at 1543, ARQ-E3/200. (RM)
14606.7 RFHI, FF, Noumea, NCL, w/RQ sig. at 1950, ARQ-E3/100. (RM)
14626.7 RFLI: FF Fort de France, Mart. 1700 ARQ-E3 192/325 to RFTJ Dakar, controle de voie. (MR2)
14643.7 Unid: 0807 ARQ EE nx, no ID, poor. (EW)
14664 Unid: 1504 RTTY 50/170 w/encryption. (RM)
14681 MFA BUCHAREST [V5G] 1103 FEC-ROU 164.5/400 Opr with abysmal CW followed by online encrypted msg. Idles on "a". With bit inversion mask 24 idles on code32 and subsequent tfcin clear. At 1134, Diplo press summary in Roumanian. (DW)
14718.3 RFHI, FF, Noumea, NCL 1747 ARQ-E3 100b w/occasional msgs or 5LG on HIJ ct. (RM)
14727 Unid 1801 RTTY 75/400 5lg's, followed by 8, 5FG's, "qru 47 sk". (ED) [SOUD/Brotherhood station, link 00116 to BPA -RD]
14732 RFVI: FF LE PORT, REU 1047 ARQ-E 96b idle. (EW)
14742.5 MFA MOSCOW, RUS 0618 PICOLLO 33 TONES encrypted. (EW)
14759 Navmarcormarsgrams 1810 Pactor. (RM)
14760 CNM61, MAP, Rabat, MRC 1408 RTTY 50/400 w/nx in EE. (RM)
14798.7 RFFVAE, FF, Dhahran, ARS (acc. to Klingenfuss '96) 1414 ARQ-E3 200b w/weak, undecodeable sig. (RM)
14801.7 FF LE PORT [RFVI] 1316 ARQ-E3 100/400 8CRC. Betas. Cct [VII] to Noumea. Controle de voie RFVI de RFVI. Same at 1620. (DW) RFVI, FF, Le Port, REU 1736 ARQ-E3 100b relaying RFHI's cdv msg back to RFHI on VII ct. (RM)
14817.5 JPA, Interpol Tokyo, Japan 0613 ARQ Interpol bulletins. (AB3) [great catch! -RD] Interpol Tokyo 2330 ARQ in EE & later FF, is the first I have heard from Interpol's Tokyo transmitter in ages. Thanks for the tip to Andrew Brill of New Zealand, a fellow WUN subscriber for the tip-off in a recent post. (TR)
14834.8 Unid: 1043 RTTY 75b QXQXQ between ea msg, 5LG's. (EW)
14875 ATP65: New Delhi, India 0823 RTTY 50/400 Infoind nx agency RY. (AB3)
14912 MFA BELGRADE [DZFG] 1440 RTTY 75/400 Online encrypted tfc. Ends "73 k". (DW) DFZG, MFA, Belgrade, YUG, w/ry at 1426, 380/75. (RM)
14912.5 WARSAW RADIO (SPW) 1403 FEC Polish ship press. (DW)
14917 Unid 1155 FEC-A 144/400 Encrypted after CCCCCCC, possibly Turkey. (ED)
14926.7 RFTJ: 1640 ARQ-E3 192/349 controle de voie. (MR2) RFTJ, FF, Dakar, SEN 1432 ARQ-E3 192b idling. (RM)
14959.7 RFTJ: FF Dakar, SEN 1434 ARQ-E3 192b iding. (RM) RFTJ: FF Dakar 1426 ARQ-E3 192/364 to RFLI Martin. controle de voie. (MF2)
14985 Unid: 1435 POL-ARQ Continuous VLNH... (RM)
14986 Unid 1311 POL-ARQ 100/170 Warsaw 5 CRC, Pol. msg. (ED)
14990.7 MFA ISLAMAHBAD ? 1328 TWINPLEX 100b -300/-100/100/300. F7b-1 (tones used to be -200/-85/85/600). Online encrypted traffic, then long period on betas. (DW)
15043 Unid: 1344 ARQ 5LG's & JG74, KDS041, HTSKHGK, FROM: :47 to New York. -Cutter Cartridge p/n 5788-1 QTY 2180 Class 13. (RC)
15462 JANA TRIPOLI 1112 RTTY 50/400 French press. (DW)
15654.9 MAP RABAT 1020 RTTY 50/400 Press in FF. (DW)
15674.9 MAP RABAT 1007 RTTY 50/400 Press in FF. Unlisted MAP frequency. Thought 15654.9 misdialed but MAP also running 15654.9 as well. (DW)
15705 TANJUG BELGRADE (YZI237) 1115 RTTY 50/400 80hz high. EE press. (DW)
15729 MFA THE HAGUE (PCW1) 1046 CW/SITOR Marker "PCW1" & tuning burst. (DW)

15731 SUNA KHARTOUM 1434 ARABIC 50/150 Press in Arabic. (DW)
15744 XVN: Hanoi, Vietnam 0740 RTTY 50/350 VNA news. (AB3)
15745.9 RABAT 1241 POL-ARQ 100/170 Morocco Pol. msg. 5CRC, Pol.emb. in Rabat. (ED)
15763 Unid 1200 ASCII various speeds, mainly 110 & 150b, also at 75 and 300 occasionally; was setting up a link, see 11106 log. (PT)
15781 USAF AWS ROOSEVELT ROADS 1445 FAX 120/576/N/800 Chart of North America, Canada, N Pacific, N Atlantic. (DW) AFS: Offutt AFB, Elkhorn, NE, w/wx charts, 120/576 at 1338. (RM) [NRR or AFS? -RD]
15857.6 Unid: 0448 ALIS 228.5 encrypted.
15858.5 DMK, MFA, Bonn, D 1611 ARQ-E 96b w/encryption to Brasilia. (RM)
15860 FF PARIS [RFFX] 1121 ARQ-E 72/400 4CRC. Betas. (DW) RFFX, Mindefense, Paris, F 1341 ARQ-E 72b idling for hours. (RM)
15873 MFA PARIS [RFGW] 1152 FEC-A 192/400 FF Tfc, p/l then qru/signoff.(DW)
15878 3MA24: CNA Taipei, TWN 0930 FAX 120/576 Chinese text in 2 columns, severe two-path distortion (KB)
15898 MFA PARIS [RFGW] 1157 FEC-A 192/400 "de P6Z". Tfc in offline encrypt when sufficiently clear. (DW)
15904.5 Unid 1201 ARQ weak idle, selcal "cvvz". (ED)
15912 Irish Military to Lebanon 1236 USB pp to Peace Keeping troops. Later SITOR A traffic. (RC)
15913.5 Unid: 1113 ARQ msg in EE, no ID. (EW)
15926.7 Unid: 0947 ARQ 200b idle, no ID. (EW) [MFA Cairo logged here before -RD]
15942 OMZ: MFA BRATISLAV, CVKA 0942 RTTY 100/425 msgs in CZECH lang. (EW)
15946.5 MFA MADRID ? 1138 TWINPLEX 100b -200/-85/85/200. F7b-1. Selcals TQMV. qrm from another station using Sitor/B. UNID. 1137 FEC Stn using Spanish. "si me recibes9(240 y lo unico es para decirte, pse anula dos aprte las dos partes.....gcs y hl corto jjjj:" (DW) EAE220, MFA, Madrid, E 1517 TWINPLEX w/encrypted msgs. Unid 1914 ARQ w/TQQV selcall, usually MFA, Madrid, E, here in Twinplex. (RM) [also have logs of 'EAE220' MFA Madrid in ARQ w/Txxx selcalls -RD]
15950 MOSCOW MET (RBI77) 1139 FAX 120/576/800 End of sea surface temp charts for N Atlantic. At 1041, same w/small chartlets //7750. (DW)
15969.2 Unid. idling in ARQ, 1422-1500. (RM)
15969.3 Unid: 1533 RTTY 50/850 w/encryption. (RM)
15976 SNN299: MFA WARSAW. POL 1107 POL-ARQ 100 PP msgs. (EW)
15988.7 Unid: 1059 ARQ encrypted. (EW) Unid 1523 ARQ idling. (RM)
16007.7 Unid: 0939 ARQ idle, no tfc. (EW)
16009.4 RFHWWO 2323 ARQ-TD2 128.5/100 Papeete Meteociv Papeete, meteo, channel A, C.I. = "IOD". (ED)
16013.7 MFA CAIRO, EGY 1049 ARQ ATU-A text & encryption. (EW)
16017.7 Unid: 1227 ARQ idle. (EW)
16035 KYODO SINGAPORE (9VF252) 1426 FAX 60/576/800 Very weak Japanese text print. New Kyodo Singapore frequency. Slow improvement to 1530z when "KYODO NEWS" clearly legible then rapid fall off. (DW)
16042 Unid 2216 ARQ-6/90 200/200 5lg's, nnn at end, FF. op msg. "de diplo". (ED) MKK: RAF LONDON, G 1224 RTTY 1105/1275 RY. (EW)
16060.5 HGX: MFA BUDAPEST, HUN 1220 ARTRAC 125/250 encrypted 5LG's. (EW)
16066.8 IRO 30: ANSA ROME, I 1612 RTTY 50/220 nx in Italian (SS)
16073.7 MFA OSLO, NOR 1040 ARQ encrypted. (EW)
16098 HBD20: MFA BERNE, SWI 1104 ARQ 5LG'S. (EW)
16101 HBD20: MFA BERNE, SWI 1112 ARQ 5LG'S. (EW)
16104 MFA OSLO, NOR 1035 TWINPLEX 100 encrypted. (EW)
16108 HBD20: MFA BERNE, SWI 1120 ARQ encrypted. (EW)
16113 HBD20: MFA BERNE, SWI 1214 ARQ msg in GG. (EW)
16117 PANA DAKAR (6VK317) 1557 RTTY 50/N/450 Press in FF. 135hz high. (DW)
16118 HBD28 Khartoum Sudan 0840 ARQ Swiss Embassy. (CC)
16124 MFA Berne 1242 ARQ 5lg's. (ED)
16125.2 RFQP: FF JIBUTI, DJI 1012 ARQ-M2,AR2 200/425 idle. (EW)
16129 M4W Israel 0847 RTTY 75bd RY tape. (CC) MFA OSLO, NOR 1125 TWINPLEX 100 encrypted. (EW)
16136 XINHUA BEIJING (BZR66) 1123 RTTY 75/N/400 Press in EE. (DW)
16141.7 MFA CAIRO, EGY 1033 ARQ encrypted text. (EW)
16143 MFA MOSCOW, RUS 0958 PICOLLO 33 TONES encrypted. (EW)
16156.7 Egyptian E Khartoum, SUD 1210 ARQ idling. (EW)
16165.2 RFFA: MOD PARIS, F 1040 ARQ-M2,AR2 200/425 idle. (EW)
16182.8 SAM: MFA STOCKHOLM, SWE 1206 SWED-ARQ 100b 5LG's. (EW)

16193 RFQP Djibouti 0910 ARQ-M2 200/400 FF. (CC)
16203.7 MFA INDIA EGYPT EMB, IND 0917 ARQ ATU-A msgs. (EW)
16204 HGX: MFA BUDAPEST, HUN 1134 ARTRAC 125b encrypted. (EW)
16205.5 MKK London 1542 PICCOLO MK-6 Traffic on operator ch. (ED)
16209.8 MFA OSLO, NOR 1203 TWINPLEX 100b encrypted text, 5LG's. (EW)
16213 "DKRX," French Emb, Dakar, SEN 1643 ARQ6-90 200b w/5LG msgs. (RM)
16249.5 Unid: 0914 RTTY 50/425 5LG;s, no ID. (EW)
16261.7 FF UNID. 1553 ARQ-E3 192/400 8CRC. Betas. Cct [HAI] controle de voie Paris de Paris. (DW) Unid: 0947 ARQ-E3 192b idle. (EW) [RFTJD, Douala, CME, MFA Paris & Libreville all logged here before -RD]
16272 OMZ 1316 RTTY 100/400 Prague Czech press. (ED) Unid: 0909 UNK 150b encrypted, cannot decode, believe RAC-ARQ. (EW)
16273.6 MFA ALGIERS ? 1205 COQ-8 26.6b 16273.628. Tfc in Arabic (ATU80).(DW)
16276 MFA MOSCOW, RUS 0507 PICOLLO 33 TONES encrypted. (EW)
16280.2 RFFA: MOD PARIS, F 0938 ARQ-M2,AR2 200/425 idle. (EW) RFFA, Mindefense, Paris, F 1653 ARQ-M2 200b w/5LG on both channels. (RM)
16281.2 RFQP, FF, Djibouti, DJI 1506 ARQ-M2 200b w/ch A: cdv (RQG ct), and ch B: 5LG (RQF ct). (RM)
16286 Unid: 0911 ARQ Idle. (EW)
16310 RFFA: MOD PARIS, F 0937 ARQ-M2,AR2 200/425 idle. (EW)
16327.7 MFA CAIRO, EGY 0901 ARQ encrypted text. (EW)
16331.7 MFA BUCHAREST [V5G] 1136 FEC-ROU 164.5/400 BImask=24. Diplo press summary in Roumanian. (DW)
16332 MFA BUCHAREST [V5G] 1104 FEC-ROU 164.5/400 Saturday bdcast. BImask=24 to idle on Code32. Tfc online encrypted. End of message designated w/long string of characters -eg -"4444444444444" or "rrrrrrrrr". Closed 1140 with CW. (DW)
16341.2 V5G: MFA BUCHAREST, ROM 0925 ROU-FEC 218.3 encrypted. (EW)
16355 OMZ: MFA PRAGUE, CZECH 0917 RTTY 100/425 msgs in Czech. (EW)
16371.1 MFA BUCHAREST, ROM 1040 ROU-FEC 164 encrypted. (EW)
16386.7 PAKISTANI EMB ANKARA 1117 ARQ Tfc in EE signed PAREP Ankara. Selcals KMEU. "this is the third time line cut where are you?". (DW) MFA ISLAMABAD, PAK 1045 TWINPLEX 100 msgs in EE to London. (EW)
16616.6 Unid. in ARQ at 1636 w VKXE selcalling. (RM)
16637.7 Unid. 1900 FEC in Greek w/summaries of top world news events of each month in 1995. (RM)
16671.7 Unid. 1724 ARQ w/TVXM selcalling. (RM)
16684 UQRT: 1628 ARQ TH Il'ya Ul'yanov wtlx to BSC Morflot in EE for ETA Tampico. (RB)
16684.5 5LCZ: 1940 ARQ M/V Brazil Victoria w/tlx re needed supplies. (RB)
16685 KCBG: 1908 ARQ M/T Ranger w/OPR+ tfc w/LSD re their FAX sked times. (RB)
16685.5 ZCUX: Repulse Bay 1805 ARQ ETA for unk port. (AB2)
16688.5 V2IR: 2006 USB M/V Sylt w/tlx to Globe Ship, Miami. (RB)
16689.5 P3LT5 M/V VELOS 0038 ARQ WKG KFS, ETA BALBOA. LOGIN: 00598 P3LT5. (WT)
16690 N/A: 1730 ARQ M/V Comman w/tlx for noon posn, 2016N/05312W, via SAB. (RB)
16690.5 P3VI2: 1732 ARQ Antigonos w/tlx to Port Capt of Balboa for ETA, login 29330 P3VI2. SWYH: 1857 ARQ M/T GL Panorama w/posn tlx, 2129N/06753W, ETA Port Cardon, login 16851 SWYH. 3EPE8: 1943 ARQ TN MSC Mirella, container ship, w/tlx to MSC New York re reefer temp, login 42904 3EPE8. (RB)
16693 DUVQ: Silver Star 2108 ARQ AMVER msg. (AB2) 3FZJ3: 1629 ARQ M/V Hanjin Tokyo w/AMVER/SP. (RB)
16693.5 WPPO: 1806 ARQ Advantage, break bulk cargo vsl, w/AMVER/PR, 3405N/04006W, login 11979 WPPO. ELFA4: 1844 ARQ M/V West Star w/tlx tfc. 3EYF8: 2031 ARQ Big Glory w/tlx for month end bunkers status. (RB)
16694 EOIQ: 1952 ARQ M/V Aram Khachaturya w/tlx for ETA Nola pilot. (RB)
16696.5 ZCAA2: Chevron South America 1814 ARQ OBS msg. (AB2) KNLO SS MANUKAI 1832 ARQ W/WX, BBXX. (WT)
16697 P3LZ5 M/V Pacificator 1927 ARQ w/tlx, eta Quetzal pier. login: 29268 PACIFI. Ex-D8PS?. (WT)
16699.5 N/A: 1627 ARQ Bulk Trader w/noon posn tlx, 12-54N/061E, login 29128 BULKT. P3GJ3: 1635 ARQ M/V Moonlight w/tlx to Ferm Int'l in Dutch, login 26823 OTMOON. LXDL: 1731 ARQ M/V Crystal Pilgrim w/tlx re temp of reefer containers. H3DC: 1851 ARQ M/V Kinaros V w/tlx for posn,

1818N/06756W, ETA Christobal, login 26355 KINARO. (RB) 5LPH M/V World Wood 2103 ARQ w/tlx, 18.1N 117.3W. login: 29360 5LPH. (WT)
16705 HJNF: 1654 ARQ M/V Dinamarca w/tlx tfc to Buena Trades, Columbia. A8BK: 1759 ARQ SS Chevron Nagasaki w/AMVER/DR. (RB)
16706.5 ELAJ6: Rosina Topic 2032 ARQ posn rpt 18.33S/118.48W to Oceanroutes, San Francisco. (AB2) 3FTW4: 1754 ARQ Golden Duke, bulk carrier, w/departure report tlx. (RB)
16710 ELGF3: MV Ewl Rotterdam 1755 ARQ w/selcal 24985, eta report & cargo loading. (MR2)
16713 UYEZ: Ararat 2252 ARQ coded number groups via UFL. (AB2) N/A: TH Novgorod 2320 ARQ w/msgs. (WT)
16713.5 P3OL4: 1657 ARQ Cliper Alliance w/noon report to Oceanroutes San Francisco, 36N/05426W. KLPN: 1941 ARQ SS Galveston Bay w/tlx tfc. (RB)
16735.5 3ESM4: Hanjin Yokohama 2235 CW wkg HLO. (AB2)
16765 ENVS TH KHARITON GREKU 2115 RTTY 50/170 RYRY UUI DE ENVS, NO JOY. (UUI = ODESSA R.).. (WT)
16770 LXRC M/V Crystal Pride 2022 ARQ w/tlx, login: 36283 LXRC. (WT)
16782 9VCT M/V SUNRISE 1844 ARQ W/TLG TO: MARITEX CENTER. PERU TO SHANGHAI. (WT)
16796.5 Unid: 1032 FEC EE nx items. (EW) Unid, RUS 1026 RTTY 50/170 msgs in RR, no ID, WTSCA. (EW)
16802 UVKG: 1528 RTTY RTMS Stratosfera in 50/170 admin msgs to Sevastopol Radio. UFAA: 1614 RTTY BATM Aleksey Generalov in 50/170 crew TG's using hull#/ID MA-0062 (MRM/KRH). (RB)
16802.5 UHCF: 1614 RTTY BMRT Novoukrainka in 50/170 crew TG's to Kerch. (RB)
16804.5 UNID. 0726 GMDSS 100/170 Monitor to disc. 14 calls, 7 of which shown as "No valid callingmode". (DW)
16806 USCG BOSTON (NMF) 1634 FEC Wx forecast. (DW)
16806.5 USCG APRA HARBOUR (NRV) 0501 FEC svc re contacting station/ procedures. Tropical depression (Colleen) wng posn 17.3N 174.8E. Wind/sea wng for N Arabia, Bengal, RedSea. Other wng NW Pacific. (DW)
16808 SPA: GDYNIA RADIO, POL 1052 FEC tfc list. (EW)
16812.5 NMC: USCG SAN FRANCISCO, CA US 0925 ARQ CW ID. (EW)
16816 CAPETOWN RADIO (ZSC64) 1707 FEC Navigational warnings. (DW)
16816 ZSC: CAPE TOWN RADIO, RSA 0920 ARQ CW ID. (EW)
16817 CHATHAM RADIO (WCC) 1642 FEC Wx. At 1240 w/Traffic list, high seas forecast. (DW)
16821.5 LYNGBY RADIO (OXZ) 1639 FEC Danish ship press, same at 0833. (DW)
16829 USU: MARIUPOL RADIO, RUS 0917 ARQ msgs to ships. (EW)
16898.5 MOSCOW RADIO (UAT) 0727 CW/SITOR Marker "de UAT" and tuning bursts. (DW)
16905 FUV: 1954 RTTY 75/400 Jibouti ry's on FUV CW frequency. (ED)
16997.6 MOBILE RADIO (WLO) 1338 FEC Tropical wx forecast. Tfc list. (DW)
17010 UGC: ST PETERSBURG RADIO, RUS 0713 RTTY 50b msgs WTSCA. (EW)
17054 GYA, RN, London, G 1611 RTTY 100/170 w/encryption to the Atlantic Fleet. (RM)
17054.6 Possibly NBA, USN, Balboa, PNR 1614 VFT 75/85 w/encryption to warships in the Caribbean. (RM)
17148 Unid 2100 FAX 120/576 Nice chart of Gulf Stream flow, metric measurements, no stop/start tones between charts, yet with NOAA seal. (DD)
17148.3 USCG NEW ORLEANS (NMG) 2020 FAX 120/576/800 Surface analysis shows Hurricane ROXANNE. (DW)
17225.4 Unid: 0532 RTTY 75b encrypted. (EW)
17400 5ST83: ANTANNARIVO, MDG 0522 RTTY 100b air msgs. (EW)
17443 XINHUA BEIJING (BZG48) 1127 RTTY 50/400 Marker "qra qra qra de BZG48 BZG48 BZG48 BZG48 XINHUA Beijing". (DW)
17445.5 NAIROBI MET (5YE) 1344 FAX 120/576/N/800 Chart for Indian Ocean. (DW)
17451 Unid 1315 RTTY 75/400 5lg's, ends w/group count, "tks gb sk sk". (ED)
17464.7 MFA CAIRO, EGY 1142 ARQ idle, then ATU-80. (EW)
17468.2 RFFA: MOD PARIS, F 1139 ARQ-M2,AR2 200/425 idle. (EW)
17518.5 German Embassy 1459 ARQ-E 96/200 ? Bonn G. msg., to Lima, & other embassies. (ED)
17520 Unid 1624 ARQ wide shift, IRS only. (ED)
17521.3 GXQ, BA, London, G 1537 VFT 50/170 w/fox & ryi on all channels through 17522.8. (RM)
17522 GXQ: BRITISH ARMY, LONDON, G 1132 VFT RTTY 1.5, 50b diversity test.

(EW)
17527 Unid 2119 ARQ IRS only. (ED)
17750.7 Unid 1350 ARQ-E3 192/378 idle. (MR2)
18040 AA ANKARA (TCY4) 1103 RTTY 50/1300 780hz high. Note also the wide shift. Press in FF/EE. (DW)
18041.7 HGX: MFA BUDAPEST, HUN 1055 ARTRAC 125 encrypted. (EW)
18064 MFA WARSAW (SNN299) 1028 ARQ/POL//100/E/170 4CRC. Tfc in Polish p/l. "end of file:wyslij.001". Economic bulletin in FF. (DW)
18066.5 JKT: MFA JAKARTA, TUR 1123 ARQ msgs in Indonesian. (EW)
18173.5 KHARTOUM AIR (STK) 0713 RTTY 50/400 Marker "qjh HSSSYFYX" and ry's. (DW)
18203 MFA France 1629 ARQ-6/90 200/300 "de diplo", no ID on station, location, although probably RFGW. (ED)
18238 PRETORIA MET (ZRO4) 1508 FAX 120/576/800 Sfc analysis for S Africa and Southern Ocean. (DW)
18254 SUU: CAIRO METEO, EGY 0948 RTTY 100b wx. (EW)
18257 MFA BERN (HBD20/7) 1150 ARQ Tfc in offline encrypt. Double line spacing/single freq ops.Tfc addressed LIMAPEAM (Lima Peru Ambassador). Fading after 1225. Terminates qso with ID HBD20/7. (DW)
18257 HBD20: MFA BERNE, SWI 1117 ARQ encrypted. (EW)
18265 CNM78: MAP RABAT, MOR 1113 RTTY 50b nx in FF. (EW)
18268 HBD20: MFA BERNE, SWI 1107 ARQ encrypted, 5LG's. (EW)
18283.3 HBD22: MFA BERNE, SWI 0925 ARQ msgs in GG to HBD20. (EW)
18360.4 Unid: 1102 Unid 100b idle signal, see peaks.rts. (EW)
18411.5 JKT: MFA JAKARTA, INS 1120 ARQ-S 96b 5LG's & msgs in Indonesian. (EW)
18431 Unid: 0540 FAX 120/576 map. (EW)
18436 Unid: 1015 RTTY 75b encrypted. (EW)
18445 MFA OSLO, NOR 1010 TWINPLEX 100b encrypted. (EW)
18464 MFA MOSCOW, RUS 0515 PICOLLO 33 TONES encrypted. (EW)
18514 Unid: 0942 TWINPLEX 100b encrypted. (EW)
18549.8 MFA BUCHAREST [V5G] 1140 FEC-ROU 164.5/400 BImask=24. Diplo press summary in Roumanian. (DW)
18552.1 MFA BUCHAREST [V5G] 1145 FEC-ROU 164.5/400 BImask=24. Roumanian p/l diplo summary. (DW)
18597.5 MFA MADRID 1320 TWINPLEX 100b -200/-85/85/200. F7b-1. Tfc in offline encryption (10ltr groups). Fading. (DW)
18704.2 DGS70H5: PIAB Germany 0910 FEC-A 96/400 NX GG. (AB3)
18762 MFA BUCHAREST [V5G] 1123 FEC-ROU 164.5/400 Circular msg in Roumanian p/l. Bit inversion mask =24. (DW)
18768 Unid: 0828 ARQ-E 192b encrypted. (EW) [Unid station C37, suspected as MOSSAD, ISR -RD]
18801.4 JKT: MFA JAKARTA, INS 1111 RTTY 50b 5LG's & msgs in Indonesian. (EW)
18875 HJNX: Mediterranean 1611 ARQ tlx tfc via WLO. DAFC: Columbus Australia 1757 ARQ OBS msg. (AB2)
18912 TURKISH EMB HARTUM ? 0715 FEC-A 144/850 Traffic in Turkish then offair. Tfc repeated at 0700z from location Hartum (?where is this - Turkish for Khartoum?). (DW)
19128.7 Unid: 0526 ARQ encrypted. (EW)
19219 Unid: 1020 RTTY 50/850 5LG's, no ID. (EW)
19220 JKT: MFA JAKARTA, INS 0847 RTTY 50b press review in Indonesian. (EW)
19235 Unid: 0433 PICOLLO 6/12 TONES encrypted. (EW)
19357 MFA LAGOS 1130 FEC-A 96/850 Frequency off at first monitoring then corrected. SVC in EE "BGY to all missions" w/apology for silence during past few days due power pblm. Signed Foreign Lagos" Msg to Baghdad (BGD). (DW)
19363 USAF AWS ROOSEVELT ROADS 1353 FAX 120/576/800 N Hemispheric chart (temp?). Small charlets for N America (severe wx outlook). (DW)
Unid: 1243 FAX 120/576 wx map. (EW) [NRR, U.S. Navy Roosevelt Roads, PR w/KAWN charts -RD]
19365 Unid: 1037 RTTY 75b poss RR text. (EW)
19390 Unid: 0537 ARQ-E 96b idling, no ID. (EW)
19418.7 RFFA: MOD PARIS, F 1240 ARQ-E3 192b idle. (EW) RFFA, Mindefense, Paris, F, w/RQ sig. at 1529, ARQ-E3/192. (RM)
19542 Unid: 0526 ARQ encrypted. (EW)
19685.5 MOBILE RADIO (WLO) 1658 CW/SITOR Marker "WLO" and tuning burst. (DW)
19731.4 PCW1: MFA THE HAGUE, NETH 0929 TWINPLEX 100b encrypted text. (EW)
19747.5 DAKAR MET (6VU79) 1417 RTTY 50/400 Met traffic. (DW)
19808.2 MFA OSLO, NOR 1037 TWINPLEX 100b encrypted. (EW)

19860 GYA London UK 0835 RTTY 75/850 Royal Navy. (CC) MTO: RN ROSYTH, SCOT 0747 RTTY 75/850 test DE MTO. (EW)
20414.4 Unid: 0735 CW encrypted. (EW)
20420 Unid: 0905 RTTY 75/425 5LG's, off w/QRU XQQM XZR SK. (EW)
20466 Unid: 0547 PICOLLO 6/12 TONES encrypted. (EW)
20872.7 ICRC RED CROSS, SWI 0714 HC-ARQ 240/200 encrypted. (EW)
22461 FUJ: Noumea, New Caledonia 0005 RTTY 75/850 French Navy w/RY. (AB3)
22664 FUM: Papeete Tahiti 0005 RTTY 75/850 French Navy w/RY. (AB3)
22688 MOBILE RADIO (WLO) 1349 FEC Wx forecast. (DW)

=MARITIME=

525 DAN : Norddeich Radio,D 2133 CW Tfc list (AB)
1674 Unid 0212-0215 YL in EE & poss another lang, w/tfc list, at the conclusion, it sounded like she said, "Good Morning.", ID? (MH)
1890 PCH: Scheveningen Radio,HOL 2142 USB WX (AB) Scheveningen Radio Holland 0342 USB w/long YL MIB after anmt on 2182. (DHM)
2182 Aberdeen Radio? 0534 USB ann re MIB, very poor, but clear mention of "Aberdeen". ID? [probably Aberdeen CG, UK -RD] USCG Castle Hill, RI 0552 tfc w/fishing vsl "Canyon Explorer". USCG Hampton Roads 2313 w/anmts about overdue vsl. USCG Charleston SC 0633 USB ann for MIB. Norfolk Radio UK 0644 ann for MIB. Scheveningen Radio Holland 0703 w/ann for MIB on 1713 & 1890 mixing at equal level w/ anmt from St John's Canada. Unid 0729 USB ann for apparent MIB in Germanic language. Poor. "Malecive Radio" 0731 USB Fair signal ann bc of nav warnings #9, believe European. Anyone know who either of these might be? (DHM2) [the 2nd may well be Valentia Radio, Scotland -RD] MPBF4: Grampian Orcades 1804 USB. GDDK: Grampian Pride 2055 USB. GVAS: Grampian Wood 2058 USB. GOMV: Seaboard Invincible 2235 USB. MLYT2: Seaboard Supreme 2143 USB. Viking Voyager 2112 USB. F.G.McClintock 2142 USB. C6KA8: Toisa Puffin 1744 USB. GDJX: Grampian Otter 2113 USB. Viking Seeker 2111 USB. 3EWN4: Lorelay 1628 USB. Viking Vedette 2111 USB. Viking Ranger 1950 USB. JXIW: Viking Fighter 2107 USB. Aberdeen Coastguard 2120 USB. 2MGD: Grampian Warrior 2043 USB. GVOU: Grampian City 2113 USB. ORAF: Prins Filip 1910 USB. MMRW7: Grampian Dee 2043 USB. GUJY: Grampian Eagle 2011 USB. Forth Coastguard 1956 USB. Clyde Coastguard 0041 USB. GFRS: Sunset Baronet 2117 USB. LCLS: Skandi Falcon 2219 USB. LCNL: Skandi Hawk 2219 USB. LAQA4: Autotrader 2023 USB. Viking Supporter 2014 USB. MLYU2: Seaboard Sceptre 2136 USB. LHTE: Far Grimshader 1944 USB. GCRP: Far Viscount 2105 USB. GDVF: Toisa Cougar 2309 USB. GREN: Britannia Warrior 2026 USB. Stornoway Coastguard 2009 USB. GBXW: Iolair 2215 USB. MMEW4: Grampian Highlander 2056 USB. ICKS: Scarabeo 6 1736 USB. Benreoch 2239 USB. MMCG8 Seaboard Swift 2216 USB. LKXL: Skandi Fortune 2224 USB. LANG: Strilvard 2224 USB. Transocean Explorer 2143 USB. ORAQ: Prins Albert 2335 USB. MMGS4: Seaboard Sentry 1913 USB. GVXE: Dawn Shore 2341 USB. GHSX: St.Paul 2323 USB. GDLT: Mona Viking 1852 USB. MHXP7: Putford Apollo 1642 USB. Grampian Star 2129 USB. LNAB: Viking Queen 2147 USB. Neddrill 6 0022 USB. GCXZ: Far Minara 1944 USB. GMSE: St.Kitts 2018 USB. C6JI9: Toisa Teal 2104 USB. Ocean Nomad 1504 USB. GUHV: Putford Snipe 1827 USB. C6JI8: Toisa Widgeon 1926 USB. Scott Guardian 2048 USB. FFU: Brest le Conquet 2331 USB. MFHV6: Maersk Chancellor 0009 USB. GGXE: Stena Seawell 1729 USB. MPJZ9: Grampian Fame 1737 USB. MN6l2: Black Watch 1848 USB. ELBY5: West Kappa 2158 USB. GJKU: St.Anne 1805 USB. Belfast Coast Guard 2354 USB. MNLE3: Dea Supporter 1755 USB. C6IW3: Bergen Surveyor 2211 USB. ZCAP2: Atlantic Guardian 2039 USB. GOSL: Cecilie Viking 2209 USB. MNMT2: Alexandra Tide 2008 USB. GJVW: Loch Nagar 2307 USB. EJK: Valentia R. 2331 USB. Forth Coastguard 2120 USB. HP7216: Transocean 9 2209 USB. GRHJ: Shetland Service 0008 USB. (GS) Skegness Lifeboat, G 0837 USB w/Yarmouth CG test&time check. Rhinns of Islay Lighthouse, G 0909 USB w/Malin Head. GJGX: Appledore Lifeboat, G 0913 USB w/Swansea CG test&time check. PJAU: Starman Asia(?) 0926 USB w/Brest up 1635/2048. GVPN: Montrose A (Amoco Plt), G 0937 USB clg Loch Nagar. ELFU4: Solena (Shell tanker) 0937 USB check w/Wick. LKSO: Skandi B (supply vsl) 0954 USB clg Treasure Prospect (rig). PIDI: Valiant (Beck's cargo) 1031 USB w/Brest into silence period. GFBZ: Newhaven Lifeboat, G 1038 USB w/Niton R. GTST: unid 1652 USB check w/Clyde CG. ( ) NMN13: 0434 USB USCG Grp Cape Hatteras NC, US w/pan-pan ann of 121.5 EPIRB

activation at 3333N/07628W, req any vsl in vicinity keep a sharp lookout. ZBM: 0438 USB Bermuda Harbor Radio w/pan pan ann of man overboard from S/V Salina, 3431N/06606W. (RB) VFA: 0540 USB Inuvik CG Radio w/ann. (JSM)
2311 Arklow Shipping 2100 USB Daily net for Arklow Shipping ships. (RC)
2614 DAN: Norddeich Radio,D 2246 USB Tfc list (AB) Norddeich R. 2320 USB R/tel comms in GG. (DM2)
2643 LGQ: Rogaland Radio,NOR 2238 CW Tfc list (AB)
2643.5 SPS: Witowo Radio,POL 2244 CW Marker (AB)
2670 Landsend R. 0735 USB EE Nav.notices. (DM2)
2719 GCC: Cullercoats Radio,G 2237 USB WX (AB)
2761 OSU: Oostende Radio,BEL 2235 USB Nav. wngs (AB)
3722 Brest R, F 0740 USB FF Nav notices (2691 too weak to copy). (DM2)
4042 Aussie fisherman in Bass Strait 0934 USB Talk abt Flounder fishing. Language pretty salty. One gave PIREP of 38S 148.17E. (RH)
4071 C6DE6: Stena Pacifica(?) 0300 USB clg WOM many times. (JS2)
4084 VDD, CAN mil., Debert, NS 0030 RTTY 75/170 w/all VFT channels encrypted on link to Australia. (RM)
4125 VL4242: Unid vsl 0918 USB unable to copy vsl's name, heard clg VIT Townsville radio for radio check.QTH off Mooloolaba (Sunshine Coast, QLD).Heavy QRN. (RH)
4190 DZRG: 1413 CW m/v National Dignity w/KFS/@ 39N/124W enrt Oakland-Busan. (JSM)
4195 D7WI: 1500 CW m/v Maystar w/JCS departing Hakata for Portland. (JSM)
4197 TCME: 1525 CW m/v Cemze 3 w/9VG @ 3N/99E Mallacca Strts. (JSM)
4198 WXBR: 0618 CW Chevron Mississippi w/KFS/Hono-Cape Hichinbrook. (JSM)
4228.6 VIM, Melbourne, AUS 1148 CW CQ CQ CQ DE VIM QSX 4184.5 KHZ. (EW)
4235 VAI: Canadian CG, Vancouver, BC, CAN 2110 CW w/ID. (AE)
4247 KPH: SAN FRAN RADIO, CA, USA 2119 CW w/ID. (AE)
4250 WLO1: MOBILE RADIO, AL, USA 2122 CW w/ID. (AE)
4253 TAH: 0449 CW Istanbul R. w/DE mrkr. (JSM)
4268 LPD68: 0008 CW General Pacheco Rdo,ARG w/ marker. (PS2)
4274 GKB: PORTISHEAD RADIO, ENGLAND 2026 CW w/ID. KFS: PALO ALTO RADIO CA, USA 2124 CW w/ID. (AE)
4275 HPP: PANAMA RADIO, PANAMA 2127 CW w/ID. (AE) HPP: 0718 CW Panama Rdo,PNR w/ marker. (PS2)
4285 VCS: Canadian CG, Halifax, NS, CAN 1845 CW w/ID. (AE)
4294 WNU31: SLIDELL RADIO, LA, USA 1849 CW w/ID. (AE)
4297 XSO: 1526 CW Wenzhou R PRC w/vsl BLJP. (JSM)
4308.5 DAN: NORDDEICH RADIO, GERMANY 1759 CW w/ID. (AE)
4310 WNU41: SLIDELL RADIO, LA, USA 2030 CW w/ID. (AE)
4317 ZSC: CAPE TOWN RADIO, S. AFRICA 2133 CW w/ID. (AE)
4323 VIP7: 2025 CW Perth Rdo,AUS w/ marker. (PS2)
4331 WCC: CHATHAM RADIO, MA, USA 2041 CW w/ID. (AE)
4343 WLO: MOBILE RADIO, AL, USA 1807 CW w/ID. (AE) WLO 1235 CW Wx Product Ann, Solar report, traffic list. (EC1)
4369 Cape Town Radio 0430 USB chit-chat between Cape Town Radio and the Telkom Maritime re the Cape to Rio yacht race fleet (0430 on 4077/4369). (PC)
4483 N/A: USB 0905 Sydney Sailing Yacht Club receiving posn reports from participants of the Sydney-Hobart yacht. Customs patrol boat Delphenous VHA2218 0640 USB wkg training ship Young Endeavour, Delphenous had been helping with the sched. (BS)
4930 SPW: Warsaw Radio 2201 CW: "de SPW QSX 4202.5kHz azim 02". (RC)
6218.5 XJP52: 2113 USB Upper Lakes Shipping (ULS Ltd), Toronto, CAN clg ULS Great Lake ships SS Canadian Mariner, CYMD; M/V Canadian Ranger, VGKD; & Seaway Queen, VDDL no joy. VCFW: 2115 USB Canadian Provider wkg XJP52 for posn. VCRQ: 2118 USB M/V Canadian Explorer 14,754 DWT bulk carrier, wkg XJP52 re ETA of 1700 on the 10th in the canal. (RB)
6376 WCC: CHATHAM RADIO, MA, USA 1904 CW w/ID. (AE)
6389.7 WNU42: SLIDELL RADIO, LA, USA 1907 CW w/ID. (AE)
6407.5 VIP: 1358 CW Perth Rdo,AUS w/ wx. (PS2)
6460 WLO1: MOBILE RADIO, AL, USA 1937 CW w/ID. (AE)
6477.5 KPH: SAN FRAN RADIO, CA, USA 1942 CW w/ID. (AE)
6480 9GX: 0714 CW Tema Rdo,GHA w/ marker. (PS2)
6484.5 WSC: TUCKERTON RADIO NJ, USA 1839 CW w/ID. (AE)
6491.5 VCS: Canadian CG, Halifax, NS, CAN 1845 CW w/ID. (AE)
8176 VIT: USB 0700 Townsville radio wkg "Defiance" and "Leanda 2 " (AW)

8207 Private Dancer 1925 USB R/T tfc re posn, enrt JUDD KEY (8207 refered to as 805). (MF2) [Private Dancer is a vessel on maritime ch.805 8207 (ship) 8731 (shore station, WOM in this case) -RD] C6CN4: 1608 USB M/S Royal Majesty, Royal Cruise Lines 28,000 DWT cruiseship, wkg WOM re R/T tfc holding for passengers. C6IP3: 2038 USB M/S Meridian concluding R/T w/AT&T Coastal Station WOM, is a 36,440 GWT cruiseship w/Celebrity Cruises. (RB)
8222 ELFT8: 2049 USB M/S Celebration wkg AT&T Coastal Station WOM re R/T tfc, Carnival Lines 47,260 GWT, cruiseship. (RB)
8234 NADY: 0027 USB USS Shreveport (LPD-12) wkg AT&T Coastal Station WOM w/free 3 min Christmas R/T calls home for crew. (RB)
8237 NVVV: 2101 USB USS Normandy (CG-60) wkg AT&T Coastal Station WOO w/free 3 min Christmas R/T calls home for crew. (RB)
8285 NLVQ: 0024 USB USS South Carolina (CGN-37) wkg AT&T Coastal Station WOM w/free 3 min Christmas R/T calls home for crew. (RB)
8294 WTB6639: 2126 USB Buster Thompson, 110 foot offshore crew boat 25 miles from SW Pass, Mississippi River, wkg vsl Beluga,located on Okeechobee Waterway, La Belle, Fl, for rdo cks. (RB)
8355 3ESF6: 2104 CW m/v Danang Glory w/KLB @ 49N/133W enrt Tomogashima. (JSM)
8366 9HJT3: 2030 CW Mount Ymitos clg WCC. (RB)
8366.5 UWWZ: Sahny 1656 CW clg UUI. (AB2)
8367 SYLT: 2038 CW M/V Alpha Jupiter clg SVE, req "345...K". (RB)
8368 BIHU: Unid 1534 CW clg XSZ, then wkg XSE for msg ck. (AB2)
8370.5 P3IH3: Caravos Explorer 1546 CW clg XFM. (AB2)
8373 BOIM: Mei Gui Hai 1643 CW tfc for Hong Kong. (AB2)
8440 VCS: Canadian CG, Halifax, NS, CAN 2154 CW w/ID. (AE)
8474.6 JYO: 0458 CW Aqaba Rdo,JOR w/ marker. (PS2)
8489.5 UTK: Unid 1201 CW UTK 3/4/5/6/7, V mkr. Anybody know where this is located?. Not in CFL 9. (RH)
8496 CLA: HAVANA, CUBA 2051 CW w/ID. (AE)
8515 5AT, Tripoli R., LBY, w vvv/cq mkr at 0000. (RM)
8516 GKC4, Portishead R., G, w de mkr at 0002. (RM)
8520.1 PPO, Olinda R., B, w vvv/qsx mkr at 0004. (RM)
8522 CBV, Valparaiso R., CHL, w vvv mkr at 0007. (RM)
8522.5 FFL4, Saint Lys R., F, w cq/qsx mkr at 0009. (RM)
8530 ROME RADIO (IAR) 0905 CW Wx in EE for Med areas. (DW)
8558.4 KFS: PALO ALTO RADIO CA, USA 2159 CW w/ID. (AE)
8573 CLA: HAVANA, CUBA 2151 CW w/ID. (AE)
8589 HPP: PANAMA RADIO, PANAMA 2152 CW w/ID. (AE) HPP 0915 CW marker. (EC1)
8630 WCC 1000 CW marker Chatham MA. (EC1)
8652 OOSTENDE RADIO (OST42) 2216 CW Marker "vvv de OST4/42 OST5/52 = closed till 0900 lt call 500/phony/txr ar". (DW)
8658 WLO 1023 CW marker Mobile AL. (EC1)
8661 GUANGZHOU RADIO (XSQ) 2220 CW Marker "cq de XSQ = ar". Answered ship -too weak to determine callsign. (DW)
8670 ROME RADIO (IAR) 2224 CW Tfc in Italian to m/v Reparia/9HUD4 (?). Two messages. (DW)
8681 ATHENS RADIO (SVI4) 2240 CW Marker "de SVI4" (DW)
8682 MADRID RADIO (EAD3) 2242 CW Marker "de EAD2 EAD3 EAD44 qsx 6 8 and 12 mhz cg ar k". (DW)
8685 CIRM ROME (IRM) 2245 CW Marker "vvv IRM free radio medical service/amver k 8 common". (DW)
8686 PKF Makassar Radio INS 1207 CW CQ & ID. (RH)
8688.5 ZSC: CAPE TOWN RADIO, S. AFRICA 1956 CW w/ID. (AE) CAPETOWN RADIO (ZSC6) 2247 CW Marker "cq de ZSC ar k k". (DW)
8694 PJC: CURACAO RADIO, NETHERLANDS ANTILLES 2003 CW w/ID. (AE) PJC: WILLEMSTAAD RADIO 2249 CW Marker "cq de PJC tfc list cmg on 6491.5/8694.0 khz as". QTC listjust before 2300z. Marker "cq de PJC qsx 6/8 mhz k". (DW) PJC 1120 CW marker Curacao Radio Antilles Isl. (EC1)
8698 7TF6: SKIKADA RADIO, ALGERIA 2011 CW w/ID. (AE)
8700 RIJEKA RADIO (9AR) 2301 CW Marker "vvv de 9AR 3/5 ch 3/4/7 k". (DW)
8704 ATHENS RADIO (SVB4) 2304 CW Marker "de SVB3/4 qsx 8 ch 4". Giving ships qry's. (DW)
8722 BVA: Tiapei, TAI 1058 USB gives tfc list. (EW)
8731 Cape Town Radio 1600 USB (8207/8731) wkg the Telkom Maritime re the

Cape to Rio yacht race fleet, yacht is amidst the fleet and any yacht can contact her on 4 MHz in case of an emergency or for making contact w CT Radio. Many yachts are contacting CT Radio direct on 4 and 8 MHz. (PC)
8743 DZA: MANDALUYONG RADIO, PHI 1022 USB wx fcst in EE, then int sig, & into unk lang. (EW) CBV: 0341 USB Valparaiso Radio, CHL wkg unid vsl 6LAQ w/calls to S. Korea in EE. (RB) KMI, Dixon R., CA, wkg Alaska Challenge at 0019. (RM)
8749 WOO 1050 CW Traffic list Ocean Gate NJ. (EC1)
12245 LANW4: 1918 USB M/V Muriel wkg AT&T Coastal Station WOM (on 13092) for R/T calls on New Years Eve. C6KJ6: 1941 USB M/V Turandot wkg WOM for R/T call to the Ukraine on New Years Eve, all circuits busy. (RB)
12284 N/A: USB 0227 Yacht "Ilich" VRST clg Singapore radio. (AW)
12388 Unid USB 0525 ship station trying to call "Salad star". No joy (AW)
12404.5 Bulacan Rdo, PHL USB 0230 w/long series of coded messages. (AW)
12437 9HXB4: 0250 CW m/v Georgia w/JOR @ 33N/170E. (JSM)
12728 J2A9: 0745 CW Jibuti Rdo,DJI w/ marker. (PS2)
12808 KPH: SAN FRAN RADIO, CA, USA 1911 CW w/ID. (AE)
12844.5 KFS: PALO ALTO RADIO CA, USA 1647 CW w/ID. (AE)
12874 VCS: Canadian CG, Halifax, NS, CAN 1658 CW w/ID. (AE)
12885.6 UNID: GULF WEATHER??? 1920 CW w/ID. (AE)
12917 KLB: SEATTLE RADIO, WA, USA 1701 CW w/ID. (AE)
13029 UQB: Kholmsk Radio, RUS 0035 CW Nav Warnings bcst. (AB2)
13041.5 XVS9: 1326 CW Ho Chi Minh Ville Rdo,VTN w/ marker. (PS2)
13042.5 PJC: 1216 CW Curacau Rdo, Willemstad,ATN w/ marker. (PS2)
13067 OOSTENDE RADIO (OST52) 2320 CW Marker "vvv de OST4/42 OST5/52 = closed till 0900 lt call 500/phony/tor". (DW)
13076.5 JNA: Tokyo Radio, J 0056 CW JASREP Safety bcst, reports man overboard from M/V Tasman Clipper, c/s H3NP. (AB2)
13080 3DP: USB 0550 Suva radio giving p/p to unid (AW)
13122 9VG66: USB 0510 Singapore radio wkg unid stn.Long shipping list. (AW)
13131 9VG67: SINGAPORE RADIO, SNG 1041 USB R/T call to ship. (EW)
13152 VIP: Perth Radio, AUS 1037 USB R/T call to ship. (EW)
13158 unid USB 0532 wkg BVA Taipei.Ordering a long list of medical supplies. (AW)
13179 Unid 1034 USB Unk loc, definitely RR tfc. (EW)
13191 Moscow Rdo, RUS USB 0630 wkg several stations (AW)
13954.6 Proud Eagle clg Snow Drift on USB for 10 mins at 2000. No joy. (RM) [merchant vsls! M/V Snow Drift is C6ID9 -RD]
14656 SPW: WARSAW RADIO, POL 1055 USB R/T call in unid lang. (EW)
16378 UDUA: Aleksey Kosygin 0023 USB tfc via UIK, QSY from 16713. (AB2)
16423 Athens Rdo USB 0535 clg SYMP Athena. (AW)
16516 Bulcan Rdo USB 0645 wkg ZMA 55. p/p (AW)
16520 New Delhi Rdo USB 0248 wkg "Amar Colony" (AW)
16528 Three Hamburg-Sued ships 0008 USB exchanged the following noontime posn reports. Columbus Canada (ELQN9) 19N/132W, bound from Los Angeles to New Zealand, ETA 16 Jan. Columbus Queensland (DICQ) 23N/84W, bound from Houston to Cristobal. Columbus America (DIIU) 20N/74W. Columbus Queensland, 21,000 tons, was built in 1979, and Columbus America, 19,000 tons, was built in 1971. (RA)
16615 Unid USB 0740 greek stn having pp, switched to 16605 at 0746 (AW)
16624 C6KS3: 1829 CW m/v East Light w/WLO /eta Balboa. (JSM)
16627 3EXE2 M/V OCEAN SUNRISE 2225 CW W/1 MSG.. (WT)
16916 WSC: TUCKERTON RADIO NJ, USA 1414 CW w/ID. (AE)
16948 VCS: Canadian CG, Halifax, NS, CAN 1417 CW w/ID. (AE)
17007.5 KLB: SEATTLE RADIO, WA, USA 1708 CW w/ID. (AE)
17010 UGC: ST PETERSBURG RADIO, RUS 0713 RTTY 50b msgs WTSCA. (EW)
17016 KPH: SAN FRAN RADIO, CA, USA 1423 CW w/ID. (AE)
17037.5 WNU55: SLIDELL RADIO, LA, USA 1427 CW w/ID. (AE)
17085 USU: MARIUPOL RADIO, RUS 0703 CW CQ. (EW)
17116 WNU45: SLIDELL RADIO, LA, USA 1435 CW w/ID. (AE)
17143.6 DAN, Norddeich R., D 1608 CW w/"cq cq de dan dan 4cg 8cg 16cg k" marker. (RM)
17146 CLA: Havana R., CUB 1559 CW w cq/qsx marker. Station is not listed for this freq. (RM)
17165.6 CLA41, Havana R., CUB 1555 CW w cq/qsx marker. (RM)
17170.5 PJC, Willemstadt R., Curacao, ATN 1554 CW w/cq marker. (RM)
17198.9 PCH60, Scheveningen R., NLD 1548 CW w/"de pch60 16 as" marker. (RM)

17206.1 IAR, Rome R., I 1545 CW w/vvv marker. (RM)
17302 Doha Rdo USB 0920 general call to all ships. (AW)
17305 OXZ: Lyngby radio DEN USB 0950 wkg unid vsl SVCQ. (AW) [M/V Zim Yokohama -RD]
17317 ABATE: DOHA RADIO, UAE 1116 USB R/T call re problem w/oil in bilge pump. (EW)
17326 SVN66: ATHENS, GRC 1057 USB R/T call to ship. (EW)
17332 BVA: TAIPEI, TAI 1050 USB R/T call to ship. (EW)
17332 Unid: 0700 USB an Asian (Chinese I think) w/"All stations this is BBA" about 4 times then "I have messages" then into Asian language. Next she call in english "I have message for????" then nothing! ID? (SB) [BVA, Taipei Rdo, Taiwan -RD]
17338 BVA: TAIPEI, TAI 1058 USB R/T call to ship. (EW)

=MILITARY=

119.8 SXA: Greek Navy Piraeus, GRC 1945 CW "vvv de sxa/g/2g/3g" (KB)
139 TBA: Turkish Navy Ankara, TUR 2105 CW "vvv tba /2/3/4" (KB)
2670 USCG Cape May 2308 USB w/end of MIB b/c. (DHM2) NMV: USCG Group Mayport, Florida, 2313 USB wkg M/V Industrial Champion/ELNV2 ref. arrival at Philadelphia. (JP)+(RB) C6IU4: M/V Scandinavian Dawn 0015 USB wkg USCG Group Mayport w/MEDICO. (JP) NMF44: 2335 USB USCG Southwest Harbor Group, Me, w/wx. (RB)
2806 IGJ41: Italian Navy Augusta,I 2234 CW VVV marker (AB)
2815 IDR8: Italian Navy Roma,I 2239 CW VVV marker (AB)
2841 EBA: Spanish Navy Madrid,E 0045 CW Navarea 3 messages (AB)
2842 OSW: Unid NATO ??? Various accents 0030 USB w/1JCW. ''OSW is now Alfa Papa". At 2225 w/6KQ, 1JZ, 5JC. Radio checks & track reports. At 1710, w/MLC & then returns to HF for comms with Magic (AB)
3029 German CG Neustadt,D 1733 USB w/unid CG vessel. Posn report (AB)
3032 NIGHTWATCH 01 0517 USB briefly wkg SKYTRAIL. (JH)
3113 NIGHTWATCH net activity 0712 USB on self-id S301 (not S302), w/26-character EAM bcst. (JH)
3167 SLHFB [P] 2103 CW Single letter [P] HF beacon. Just been reported as [F] form 1200-2000z. 2109z CW figs random grp length 2110-15 HS CW but unable to decode. 2115-20 F1b 50bd sync 200hz> No ACF. 2120z returns [P]. (DW) [Ary sez Russian Navy Kaliningrad -RD]
3275 AAT7BL 0235 USB dictating MARSgram to AAT7SH. (RM)
3625 Moroccan Army (nights) USB/LSB. (JK)
3782 CTP: 0232 CW NATO Lisbon,POR w/marker. (PS2)
4023 AAR4CM 0035 LSB leading Army MARS net. (RM)
4029 U.S. Army MARS AAT6R & AAR6WZ 1300 USB net comms. (EC1)
4134 NPCR: 2346 USB USCGC Dallas (WHEC-716) wkg CAMSLANT (NMN) re data. (RB)
4238 VTP: 1618 CW Vishakhapatnam Naval w/V mrkr. (JSM)
4268 VTG: 1617 CW Bombay Naval w/coded tfc. (JSM)
4395 USN tracking net type activity USB stations using single or two letter alpha callsigns. Heard mention of "launch", "event 8", & "recovery in progress". (EG) [Jim Conrad later posted info that these comms are all related to Navy Aircraft Carrier Flight Operations. Launch is the term used to indicate the departure of a/c from the carrier. Each "cycle" (the complete launch of one group of a/c & the return of a previous group) has an "event number" associated with it. The phrase "recovery in progress" indicates that the carrier was recovering a group of a/c back aboard. Comms were most likely from JTFEX being conducted off the east coast w/the USS George Washington (CVN-73) Battle Group. -RD]
4469 KGA351, CAP Florida wing 0130 USB w/Sparrow 236 holding roll call. (RM)
4721 IDR: 2215 USB unid broken-EE OMs w/ rdo ck "Sierra Two Hotel this is India Delta Romeo" At 2228 "India Delta Romeo this is Six Quebec Yankey" Also hrd: "Fox One Bravo" (F1B), "Zero Yankey Quebec" (OYQ). (PS) [CanForces ch.G20 best bet, but USAF/AFSOC/MYSTIC, & Italian Navy has also been logged here -RD]
4739 Probable USN net 2312 USB w/P6Z, Blue Star, Super 15, & Wafer 755, sounds very similar to 8971 often complete with ticking. (SF)
4741 NIGHTWATCH 1231 USB wkg APPRAISAL, will monitor as primary until better freq is found. (EC1)
4742 IFB48 1534 USB wkg ARCHITECT w/request Architect call 'Lyneham Ops'

w/ETA of 17:00z. LYNEHAM 63 1552 USB wkg ARCHITECT, req radio check. No joy. IFN82 1647 USB wkg ARCHITECT w/req pp to 'Lyneham Ops'. Require flight-plan for Ancona-Lyneham. ETD 18:30 FL240. IFN80 1652 USB wkg ARCHITECT w/req wx for Split & Ancona. LYNEHAM 63 1526 USB wkg ARCHITECT w/ground radio cks. RAF AIR 2C05 1522 USB wkg ARCHITECT re Arriving @ ENZV @ est time. Request relay to 'EGVO Ops'. 6CP 1553 USB wkg ARCHITECT w/Relay to 8TD 'on track 15:30z' (AD) Ascot 4130 0750 USB Architect (C-130, RAF) wx ETUR (Bruggen) EDDL (Dusseldorf) EDDF (Frankfurt) EDDK (Koln-Bonn). ODM 75 (Puma, 27 Sq. Odiham) 1532 USB w/Architect for rdo ck several freqs, QSY 9031. ODM 95 (Puma/ Chinook, 27 Sq. Odiham) 1534 USB w/Architect, req. wx EG## (at this point the tx broke off, Architect called several times but made no contact). (BH) ASCOT 3650 0853 USB wkg Architect DJBC L15 ZD952 departed EGVN 0800/10 15e/1015 Nairobi 1635/45 relay D+NBOAPMK NBOXRKQ+NBOAZQRR. ASCOT 4902 0912 USB wkg Architect AKBJ 130 XV292 Departed EGDL 0830/35 15e/1135 eta Akrotiri 1425/35 relay LIMA. IFN 11 1140 USB wkg Architect AKDJ 130 XV304 Departed EGDL 1110/20 eta Bruggen 1240/50 relay K+Bruggen Ops. (Also heard on UHF Bruggen Approach). IFN 97 0912 USB wkg Architect clg Architect. No answer. To 9032. Also no answer. ASCOT 5896 1253 USB wkg Architect AKDJ 130 XV304 pp to ASCOT ops: Route-support on the way to Brize Norton (eta 1345). Diverting from Lajes due to the tanker-situation. ASCOT 5065 1950 USB wkg Architect AKEG 130 XV307 Departed LGIR 1900/10 eta EGDL 0045/55 relay Lima. ASCOT 5334 1020 USB wkg Architect AJEG 130 XV209 dep. .... 1000/10 eta .... 1050/1100 relay K+BFSKIRR. NATO 33B 1311 USB wkg Architect Req actuals for EGXW, EGVN, EGCC. ASCOT 5314 0940 USB wkg Architect AJEL 130 XV212 to 5714 Architect. Nothing heard. IFN 17 1105 USB wkg Architect AHGJ 130 XV176 Departed Lyneham 1035/40. Eta Split 1405/15 relay K+BDSQAYD+BDSBMAZ. Req. wx. Ancona & Split. IFN 23 0930 USB wkg Architect AJLM 130 XV221. ASCOT 5890 1035 USB wkg Architect to 9031. No contact. IFN 18 1120 USB wkg Architect AKDL 130 XV305 pre-flight check. (HW) IFN07 C-130? LTW? 0937 USB W/Architect dep Bruggen, germany est LQsm? (JF) SMALLFISH 0556 USB wkg NIGHTWATCH 01, with this freq now set as primary (co-channel data xmsn was bothering SMALL FISH on 5700). (JH) Unid: USB on the half hours a station with Brit accent names locations & gives a color or "nil". I have this listed as RAF Strike Command. (RR) [yes, the colors are the conditions at the airfields for the locations named, every H+00 & H+30 -RD]

4950 Chalace Alpha: 2211 USB wkg GULF CHARLIE, GULF ALPHA, others w/what sounded like NORAD training. (RB)

5026 NIGHTWATCH 0323 USB clg SKYTRAIL on S305, w/no response & gone, (very heavy swbc qrm from 5025). NIGHTWATCH 01 originally told SKYTRAIL on 5800 that he was not authorized the use of S305, then corrected himself. (JH)

5064 9MB: 1403 CW MNy Georgetown,MLA w/ marker. (PS2)

5680 Balkan Embargo traffic 2000> USB Callsigns: AR to DE; AD to SA. (Using local Rescue Freq!) (RC)

5687 DHM 91: German Air Force Munster,D 1129 USB w/Unid a/c, wx for several European airfields (AB)

5693 USCG Detroit 1510 USB tfc w/Coast Guard 6590. USCG Cape May clg Coast Guard 6576 but no joy. (DHM2)

5696 NMQ: USCG Group Long Beach, California, 0040 USB clg CG acft 6015 who was having trouble maintaining guard with CAMSPAC (JP) NMN: CAMSLANT CHESAPEAKE 2106 USB wkg ZULU 23 RAPTER. (MF2) RESCUE 6021 2118 USB wkg CAMSLANT CHESAPEAKE. (MJ) NMG: 0011 USB Comsta New Orleans clg Rescue CG 2101 (at 0014 qsy to 4134 Khz also hrd here). Rescue '40' 0024 USB wkg New Orleans COMSTA. NMN: 0000 USB USCG Camslant wrk CG 1713, at 0048 wkg USCG Camslant wrk B6V? (PVY) COAST GUARD 1703 2328 USB reporting normal ops to CAMSPAC Pt. Reyes, often stepping on CAMSLANT Chesapeake wkg T2P. (RA) PANTHER: 0603 USB DEA, Nassau, Bahamas, wkg 32C re securing his radio guard, then clg SHARK 619, USCGC Confidence (WMEC-619), no joy. NOS: 0649 USB USCG AirSta Cape Cod Ma, US "Cape Air" wkg Rescue 2115 w/updated posn of EPIRB 4000N/6317W, fuel status. (RB) Camslant Chesapeake 2220 USB Lots of trigraph callsigns: FSB, U1H, C6Q, X6N. I couldn't hear any of this traffic. Also CG1502, 2104 6030, 1500. What is the trigraph stuff? [cud be anti-Narcotics/smuggling,immigration, fisheries/treaties or

other law enforcement patrols -RD] CAMSLANT 1306 USB wkg RESCUE-02 w/msg to head to district 5 track to Tanger for medevac patient, Call Eastern Shore on CH#23 or CH#16, he had to repeat the tx 3 times due to poor reception. (SB)
5700 NIGHTWATCH 01 0550 USB w/26-character EAM trailing the GHFS - the second OFFUTT ceased his bcst on the GHFS, NW01 popped up on 5700 w/the string. NIGHWATCH 01 2339 USB clg VOLTAIRE, then on 6730. SKYTRAIL 0520 USB wkg NIGHTWATCH 01, moving here after being run off 5800 by SS lang comms. SKYTRAIL also requested use of P380, & was advised by NW01 that NW01 was not authorized to use that freq. (JH) MEATHOOK 0409 USB clg NW, no joy, QSYed to X-903 (6730) not heard there. (MD) GIN SOUR 2120 USB clg NW01 no joy. REAL SILK 0114 USB clg NW. (MJ) WAR46: 1415 USB Alternate National Military Communications Center, Raven Rock Mountain, Pa, clg NIGHTWATCH 01 on P381 Christmas morning. (RB)
5708 EIYM: M/V Aoife 1247 USB wkg, C253 (CASA CN235 Irish Air Corps) for rdo ck. (RC) [Aoife is hull P22, Irish Navy "P21"-class patrol vsl, great catch! -RD]
5715 ARCHITECT: RAF,G 1131 USB Airfield info (AB)
5800 SKYTRAIL 0237 USB wkg NIGHTWATCH 01, & using this freq as primary for part of the evening (until run off by SS lang comms.) At 0335z, SKYTRAIL with 26-character EAM, coincident with GHFS rotation of same. (JH)
6200 DZST: (QRA unknown) wkg CAMSLANT Chesapeake (duplex on 6501 kHz USB) w/MEDICO tfc about crewman w/heart problems. (JP)
6318 IN ROME (IDR3) 2324 CW. Marker "vvv EDR3". Note EDR3, not IDR3. (DW)
6469 SXA24: Unid 1833 CW w/ID. (AE) [Greek Navy, Piraeus -RD]
6501 NMO: 0626 USB USCG CommSta Honolulu w/conclusion of scheduled wx b/cast. (RB)
6683 SAM 202 2026 USB wkg ANDREWS. (JH) Andrews 1854 USB w/pp for SAM 682 re changes in Dayton Agreement. (MF2) SAM 681 1935 USB wkg Andrews, 681 not heard. SAM 403 2230 USB wkg Andrews w/pp's. AIR FORCE ONE 2232 USB wkg Andrews w/comm ck. SAM 29000 2251 USB wkg Andrews w/pp. Air Force 2 1908 USB wkg Andrews w/pp's. (MJ)
6691 OVERSLEEP 1902 USB wkg BOOMTOWN, are id'ing the freq as CHARLIE ALPHA. UNDERDOG 2029 USB clg SKEPTICAL on CHARLIE ALPHA w/no luck (moved here from 9017). (JH)
6694 CKN: 2343 USB Vancouver Military, BC Can, wkg MF692, re ability to respond to overturned vsl at 5244N/12917W, immediate pp Victoria RCC re same, confirms has enough fuel to fly to that posn & return Comox. At 0017, MF692 was released from this tasking to RTB Comox due to other a/c being closer. CGAE: 2345 USB HMCS Regina (FFH-334) wkg MF692 re same SAR. CKN: 0004 USB Vancouver Military, BC wkg Rescue 33 (helo, later also called SPEAR 33) w/ETA to overturned vsl, adv M/V Langwood would be on scene assisting also. At 0036, Rescue 33 was on location "hoisting" a survivor to the M/V Langwood. K8VY: 0028 USB Unid clg Halifax Military, Vancouver Military replies & req they QSY to 6715 (later 5717) due to SAR comms on freq, K8VY had British accent. CanForce 2412: 0235 USB clg Halifax Military, no joy. (RB)
6712 MAGIC 57 1720 USB wkg ARCHITECT w/Various wx. MAGIC 59 0029 USB wkg CROUGHTON, Moved to 6754, pp to AT@T operator. (AD) JUGUM 01 1012 USB w/Croughton (E-8) pp JSTAR OPS/JSTAR 01: req uhf freqs: 256.25/ 232,05, they're wkg the crypto problem. freqs for RWY 07/25: 119.9, RWY 18: 124.85. How do we fill in the customs forms? Customs will meet them on arrival. Parking on H1 or H2, ATOC will advise on UHF. The only airfield in Europe with RWY's 07/25, 18 is Rhein Main as far as I know, JSTAR OPS indicates an E-8 JAYSTARS aircraft. Spelling not sure. IF80 1016 USB w/Croughton pp V330-8575/8574 (Charlie Ops): on the ground LHBP (Budapest), diverted there due to bad wx other destination, req instructions: call V634-7358 ext 2108 (AME): army delegation should meet all three a/c & decide to off load cargo at LHBP or wait for the wx to clear. So far only local personnel showed up. Req SATCOM freq: 292.5 uplink, 261.6 downlink. BOOKSHELF 47 1238 USB Mainsail (EC-130 ABCCC, Bosnia) No joy -> 11175 Croughton, pp DSN 632-7373: go push 150 or push 86 (channel designators, unknown to me, the DSN number is Bookshelf Ops, Aviano, Italy). (BH) CHALICE ECHO 0835 USB wkg RAMSTEIN CP via CROUGHTON. Wants UHF freq for MAGIC - RAMSTEIN is unable to comply. (CHALICE ECHOE is an E-3) They called

MILDENHALL on UHF originally, req pp to BITBURG CP but with no joy, I thought BITBURG had closed? (JB) RAZOR 03 EC-135 0849 USB pp/w ? dep 0843 arr 1845. The Razor was heard a couple of days ago using "Headdancer 034/Razor03. Coordinating a re-deployment consisting of 24 A-10's enrt from Lajes to Sadam? (JF) RHETT 11 0715 USB clg ANDREWS for a radio check. ANDREWS 0717 USB w/normal h+17 EAM bcst; however, partway into string, ANDREWS lost the circuit to a busy signal (seized) and MCCLELLAN pops up with another system-wide EAM. REACH 45IGS1 0534 USB wkg CROUGHTON, 46.56N/18.12W, selfid'd as KC-10A. MCCLELLAN 0548 USB up as lead station w/EAM bcst, followed by another at 0605z. At 0617z, ANDREWS up on freq with normal h+17 EAM bcst, with the string taken from the 0548z MCCLELLAN xmsn. At 0650z, SWEET PEA calling MAINSAIL with no response. OFFUTT 0539 USB w/131 character EAM: DN244O. (JH) AFE: Croughton GHFS 0704 USB wkg 45 India Golf.(JP)

6714 Rescue Op's: 1857 USB (USAF) clg KING 79 no joy, later ID'ing as "command post". (RB)

6715 SAM 970 1435 USB wkg ANDY VIP (no joy - pilot gave up). (JB)

6717 VENUS 78 and VENUS 79 2012 USB wkg ANDREWS. VENUS 79 2025 USB wkg ANDREWS. At 2011z, VENUS 78 wkg ANDREWS w/pp to SAM COMMAND. (JH) Andrews VIP: 1645 USB clg SAM 682 no joy. SAM 202: 2120 USB USAF C-20B tail 86-0202 wkg Andrews w/comms ck's. (RB)

6723 Tracking net 0200 USB w/call signs RED CROWN, FOXTROT,GOLF, LIMA, TANGO. RED CROWN seemed to be net control. (MD) FT: 1823 USB unid US-EE OMs ID themselvs w/ "Foxtrot Tango","Foxtrot", "Oscar", "Golf" some kind of tactical military net it seems. At 2238, "...this is FT req speak w/one of your Echo Wiskey's" "...this is Oscar Echo Wiskey One" "Oscar Echo Wiskey One this is Foxtrot Tango Echo Wiskey Two rq your scoring". (PS2) Unid U.S. Mil Traffic 2352> USB "Mike, this is Oscar, are you still on track? & reference to Miami. Same QRG but different net: Call-signs "OF" "H4" "JZeroM" "8SN". Unid U.S. Mil Traffic 0010 USB "Got two tracks for you, One from Magic, One from Rattletop(?)" (RC) [U.S. Navy Link 11 coordination net, usually FOXTROT TANGO here, MAGIC prob an AWACS, other is prob P-3 -RD]

6730 Unid, Italian?, poss Italian Naval elements on the Bosnian blockade? USB the call was used in phonetics, Whiskey Tango 666. (EC1) [Italian AF, Sigonella often logged here -RD] SHERLOCK 1605 USB coincident w/GHFS, w/26-character EAM to NIGHTWATCH net. PRESCOT 0621 USB wkg NIGHTWATCH 01, entering the net, & the only player currently active in the net. At 0632z, NIGHTWATCH 01 w/EAM, trailing the GHFS. NIGHTWATCH 01 0537 USB clg EXPOSURE, but not hearing EXPOSURE's response. NW01 was apparently having tech problems at that time. LOSTTIME 1801 USB wkg NIGHTWATCH 01, entering the net, then advising that he was going monitor-only for indeterminate period of time. NIGHTWATCH net activity 2043 USB WAR46 calls NIGHTWATCH 01 for radio check, & raises same at 2045z. TROUT 99 1300 USB wkg ANDREWS on an approx 30 minute schedule. (DV4 + 10 pax + 4 space-A's). VAN BUREN 2248 USB wkg NIGHTWATCH 01, entering the net. Only player currently in net, P381 secondary, they've been staying mostly 'low' over the past few weeks.) At 2328z, NIGHTWATCH 01 with 26-character EAM to VAN BUREN, trailing the GHFS. NIGHTWATCH 01 0010 clg RAILMAN. RAILMAN up at 0131z clg NW01, but id'ing freq as X904, & wkg NW01 at 0159z. At 0202z NIGHTWATCH 01 responded to an unrelated comm from the SS lang opr ('station calling NIGHTWATCH?'), who in turn obviously responded to NW01, but immediately dropped. RAILMAN exits the net at 0318z. At 0546z ENVISAGE (phonetically spelled, & pronounced in-vi-sage by USN opr) works NW01, entering the net; no other players. Moved to 5700 at req of ENVISAGE. WAR46 0432 USB clg NIGHTWATCH ONE, w/nothing heard. NIGHTWATCH 01 0533 USB wkg INCLUSIVE, who entered the net. Active throughout the local night. EYETOOTH 0015 USB clg NIGHTWATCH 01. SKYTRAIL 0236 USB wkg NIGHTWATCH 01 throughout local evening. ANDREWS 0403 USB wkg (or attempting to work) SAM 201, not heard here. MIGRATORY 0249 USB clg NIGHTWATCH 01. EAM xmsn at 0548z. WAR46 1340 USB wkg NIGHTWATCH 01 for signal check. At 1413z, KNAPSACK with EAM xnsm, no found simulcast freq, maybe trailing the GHFS. He then called NIGHTWATCH 01, with no response & gone. He was not yet in the net. SPAR 19 0106 USB wkg ANDREWS throughout night (past 0300z.) (JH) SAM 204 2055 USB in middle of pp,

VIP referred to as Albert, was this VP Gore? [Unlikely since any a/c w/U.S. VP on board is called AF-2 -RD] Andrews 2118 USB w/SITREP from SAM 204. (MF2) SAM 973 2221 USB wkg Andrews. AIR FORCE TWO 2306 USB wkg Andrews, at 2316 clg 973 no joy. SAM 973 2318 USB wkg AF2 & Andrews w/pp to SAM command. NW01 1809 USB wkg WAR46 w/commo ck, at 1814 w/40-char EAM...BDWHEB. (MJ) Air Force One 1950 USB Signal ck w/Andrews. (PI) TROUT 99: 1531 USB wkg Andrews w/pp Air Force op's. (RB) WAR46 1605 USB clg Nightwatch 01 for radio ck. WAR46 has Nightwatch 01 "weak, readable". I can't hear NW01. (RR)

6731 Unid net 1200 USB w/mention of vip flight going over head near launch window. (JJR) [Post by Jim Conrad indicates these comms are all related to Navy Aircraft Carrier Flight Operations, this part indicates most likely a COD (Carrier Onboard Delivery) C-2 Greyhound (or Helo) was arriving near the start of a launch cycle. The term "overhead" is used to indicate the scheduled time an a/c is to arrive at the carrier. Comms most likely from the JTFEX being conducted off the east coast w/USS George Washington (CVN-73) Battle Group -RD]

6739 IFN 17 1543 USB Architect (IFOR a/c, RAF) no joy. GOLD 21 (KC-10) 1133 USB wkg Thule, pp Mildenhall PMSV for Lakenheath wx. (BH) REACH GFF6 0825 USB wkg HILDA AMERICA wants to go to Mildenhall but told to go to Ramstein - interesting comments by pilot! (JB) GOLD 21 (KC-10 USAF) 1000 USB wkg Thule pp 480-2746 Ramstein Air Ops, had Trend 31 Flt w/him which diverted into Prestwick I think. Mentioned Flt of four? On 5616SH: At 10 west contact scottisch 125.675. (JF) MOTORIST 0454 USB wkg HICKAM w/pp to NIGHTWATCH 01, apparently checking into the net. MCCLELLAN 0052 USB as lead station with a bunch of 20-character EAMs throughout the evening: 0052z; 0105z (FOR MARINBA) more to follow; 0017z (LAJES, FOR MARIMBA); 0019z (FOR MARIMBA;)....; 0310z (LAJES;) 0317z (LAJES - the LAJES h+17 bcsts call attn to themselves, but maybe coincidental). JC127 0330 USB wkg LAJES w/pp to DSN 476 number, id'd as 'something' BASE (could not make it out.) AT 0349z, station sounding something like SHOCK 34 working LAJES (but not SHARK.) REACH 80217 0125 USB wkg LAJES for radio checks. BLUE 61 0534 USB clg MAINSAIL; raising LAJES; placing pp to ROTA CP. TEEBALL 0910 USB clg MAINSAIL; raising MCCLELLAN; getting radio check & gone. THULE 0127 USB w/'scheduled' EAM xmsn, w/string taken from 0112z GHFS rotation. At completion of his xmsn, a female GHFS opr popped up on freq w/same string, then suddenly disregarded the thing & was gone. (JH) REACH 30089 2120 USB wkg unid after Mainsail, pp to HILDA, re a refuel (1320 given as update freq). (MF2) SAM 403 2225 USB wkg Lajes w/pp. (MJ) Navy TE823: 0121 USB wkg Lajes GHFS w/pp to 476 DSN for meteo. EXECUTIVE 1 FOXTROT: 0142 USB wkg MacDill GHFS w/pp Sam Command to adv was airborne 0140z, est Andy at 0245. ATLAS 11: 0454 USB wkg Albrook GHFS pp, Howard meteo, ETA Howard AB of 0610z. (RB)

6745 TRENTON MILITARY 0006 USB w/pp for "1420" to Trenton Metro. (RR)

6751 DARKSTAR ZULU 0215 USB wkg SIDECAR w/discussion of LINK11 settings ("papa uniform"). (RJL)

6758 MKL: 0910 CW RAF Edinburgh,G w/ wx. (PS2)

6761 GORDO 15 1545 USB wkg QUID 60 re confirmation of new I.P time. Quid says finally launched head-wind all the w (AD) SAM 204: 0251 USB USAF C-20B tail 86-020 4, Special Air Mission a/c, wkg Andrews for various pp's. (RB)

6779 DRAT: 0815 USB FGS Emden (F-210) German Navy Frigate, clg/wkg DHJ-59 to QSL last RTTY msg sent. DRAH: 2320 USB FGS Brandenburg (F215) clg DHJ59 no joy, also at 2334. (RB)

6815 MMAC: 1635 USB Unid, USMC? wkg MMAK w/rdo ck's. At 1711, MICT w/"any station this net", then clg MQUP, MMAK, MGLO. Per NavTex Warnings there was to be simulated beach landings on the day this was heard, by USMC. (RB)

6830 VENUS 79: 2015 USB wkg VENUS 78 w/block time, passes wx for destination. (RB)

6876 BEACHBOY ALPHA 5 0834 USB wkg BEACHBOY CHARLIE. Deployed Naval Special Warfare Group, SEAL Team unit wkg their controlling agency. Voice & KL-43 traffic. (TT)

6908 FDE14: 1031 CW FAF Villacoublay ?,F w/ marker. (PS2)

6966 FDG: Bordeaux Air 0028 CW w/V/AR marker. (MH)

6993 ANDREWS 2332 USB wkg SAM "787" with a check-comm, both parties seem

to have problems raising each other on freq; ANDREWS is mostly up on freq calling GORDO 15 (presumably SAM 787.) SAM 787 will respond to these calls, but ANDREWS apparently does not hear him. SAM 787 2329 USB wkg ANDREWS. At 0014z and 0018z, ANDREWS clg GORDO 15, being responded to by a reluctant-sounding SAM 787, but apparently not heard by ANDREWS. (JH) SAM 202 2127 USB wkg Andy w/pp to "Dispatch", ordering ice, car on arrival, metro forecast for 2300 arrival. (MR2) SAM 682 2125 USB r/c Andrews VIP on F117. At 2217, req Andrews notify SAM 049 of departure at 2202. (RJL) Andrews 0600 USB w/Charlie 99, "qrm, go to 136", found them on 4458, confirmed contact, no further transmissions. (RR)

7335.5 FAF METZ (FDC) 2251 CW. Marker "vvv de FDC ar". (DW)

7535 NTBK: USS Klakring (FFG-42) 1516 USB wkg SESEF Norfolk. (JP) Blackhawk: 1610 US wkg SESEF w/HF xmitter tests, precommissioned MHC-58. NMIT?: 1647 USB USS Mitscher (DDG-57) w/HF tests. "In Port Submarine" 1642 USB clg/wkg SESEF re test, adv stand-by until done w/Mitscher. NPBA: 1744 USB USS Defender (MCM-2) wkg SESEF Norfolk w/HF tests. NRWY: 1750 USB USCGC Morro Bay (WTGB-106) clg SESEF Norfolk, no joy. NICK: 2016 USB USS Nicholson (DD-982) clg/wkg SESEF w/req to "go green". (RB)

7545 Unid aero traffic USB 0400-0500 in EE, unid station, accent possibly American. Heard best around 0400-0500 UTC w/posn reports, but too weak here to make sense of the posn. "Whiskey-Lima", "Bravo-Two"; & later "Golf-Lima", "Bravo-Two". (Any idea's?)

7831 SKYTRAIL 0235 USB moving here from 6730, clg NIGHTWATCH 01 then moved back to 6730. (JH)

8040 SAM 206: 2340 USB USAF C-20B (tail 86- 0206) wkg Andrews VIP w/pp SAM Command to report block time of 2340z. (RB)

8187 Unid military 1434 USB Abate, Golf Whiskey, Delta, Echo & November in a tracking net. (JM)

8240 NCDK: USCGC Sanibel (WPB-1312) 0448 USB wkg CAMSLANT Chesapeake. DIIU: M/V Columbus America 1523 USB clg NMN (JP)

8294 ADMP: USAV Five Forks (LCU-2018) 2207 USB wkg Raider (Panama). (JP) ADMP: USAV Five Folks 2206 USB wkg Raider. (JS2) ADMW: 0651 USB USAV Malvern Hill (LCU-2025) clg/wkg ADMP, USAV Five Forks (LCU-2018) w/relay to RAIDER of posn at NAS Alamedia, next stop Port Hueneme. AAEG: 1733 USB USAV Kennesaw Mountain (LCU-2002) wkg AAC2, Harbormaster, Ft Eustis, Va, w/posn & status. (RB)

8295.5 Navy Submarine Base 0023 USB wkg unid station, usually heard on 8294. (RB)

8297 ADMU: USAV Hobkirk (LCU-2023) 1105 USB wkg AAC2 (Ft. Eustis, VA). ADTK: USAV COL Seth Warner (LT-806) 1106 USB wkg AAC2. AAFB: USAV MG Nathanial Greene (LT-801) 1710 USB wkg ADTK. (JP) AAFB: USAV MG Nathanial Greene (LT-801) 0057 USB wkg AAC2 w/2000 posn report. AAEB: 2337 USB USAV Chickasaw Bayou (LCU-2012) wkg AAEA, USAV Chickahominy (LCU-2011). (RB)

8401.5 Unid: 2020 USB "Patrol a/c -2?" very weak, clg ?-Control for several minutes w/nothing heard. (RB)

8601.2 ZLO: 1037 CW Royal New Zealand Navy Waiouru, NZL w/marker. (PS2)

8967 Unid station (could not make it out, but had distinctive UK accent) 1812 USB clg MCCLELLAN. (JH)

8968 AIR EVAC 10T3 1547 USB wkg LAJES w/pp to ' ? Ops' Turkey. ETA Incirlik 19:15z. ETD 10:15z (AD) Lajes AB USB 0829 Lajes AB w/Skyking msgs. (AW) Spar 67 0908 USB Lajes (C-20) pp Phantom: C-20 dep Mildenhall 0840 eta Ramstein 0955 A2. pp V480-5066 (UNC): same, A2 for co-pilot's ASDCN panel: cannot select heading mode. Spar 67 usually is a C-9. (BH) Reach 10621 C-141 1150 USB pp Hilda for status on it's tanker in track Oscar One West, Tazz 75 at 1505z. Shooner? 70 1115 USB pp 624-5511 Sigonella Base Ops. RAFA 91 1453 USB pp RAFA Ops, enrt Lajes but diverting Rota. GoldFish -? 0858 USB pp/w/ DSN:339-4528 Conus "NoFly?" pass to ...to come up CA for HF data. (I Saw Jeffs Smallfish, could be the same but I came in too late & only heard spell F I S H. I made Goldfish out of it. (JF) SMALLFISH 0605 USB clg MAINSAIL, eventually raising LAJES for a signal check, & gone. SWEET PEA 0654 USB wkG THULE and passes an 'Ops normal, authentication' message that was to be relayed to CROUGHTON (that's why he was calling on 6712.0.). CASEY 01 1804 USB wkg MCCLELLAN. At 1807z, LOOK 85 working MCCLELLAN w/pp to an OFFUTT DSN 271 number.

At 1841z, OFFUTT clg LOOK 85 w/no response. IAF 001 (Israeli Prime Minister) 0711 USB first wkg ANDREWS (who moved him here from 11244) then LAJES after ANDREWS disappeared. Attempting to get aviation wx. DARK 15 2034 USB wkg MCCLELLAN w/pp to DYESS wx, & RAYMOND 37 re his IR. At 2039z, GOOSE 81 wkg LAJES w/pp to SPECTRE OPS w/ETA message. At 2101z, ICER 61 clg OFFUTT, MAINSAIL, SKYBIRD, & raising LAJES, w/a pp to RAYMOND 12 re IR problems. ROXIE 71 1843 USB wkg ANDREWS w/pp to LITTLE ROCK COMMAND POST (DSN 731). READDOOR 1626 USB w/EAM bcst, not caught on other freqs, completing his bcst by repeating his callsign twice. (JH) ROGERS RADIO 2042 USB w/pp for REACH 79882 tail #90025 to HILDA AMERICA. TURBO 11 1918 USB rdo ck w/Offutt. (MF2) RAIDER 26 2319 USB w/pp to McChord via Hickam, a/c was ID'ed as a KC-130 "single brain" (?) w/26 passengers to disembark for SoCal transfer. (RA) Lajes 0130 USB wkg Navy 49676 w/all freq call, contact made & QSY to 15016 but n/h there. SAWN(?) 31: 1647 USB wkg Thule, 70n57w req pp. TAMMY: 2018 USB clg Thule, no answer. (RC) SOCOM 78 1322 USB pp ?? v/McClellan; Gen. Horne (sp?) onboard. (RJL)

8968.5 9UB, unid USN 0509 USB occasionally clg 'any station this net' and a station that was not clear, but was maybe GIANT KILLER. There was also another weak station that would call 9UB as well. (JH)

8971 BLUE STAR 2300 USB wkg Ashely (?) 740 and 741, re being enrt Norfolk, using landline, and passing info to "3IC." callsign. Any ideas on Blue Star and Ashley IDs??? (RA) [BLUE STAR is a USN facility at Roosevelt Roads, PR; ASHLEY/ASHLEAF is a P-3C -RD] P6Z 1500 USB clg LUCAS(?) 30. P6Z advises 30 to resay their SATCOM traffic, which P6Z then acknowledges on non-secure HF. P6Z advises LUCAS 30 that P6Z will advise CTU of 30s fuel state & will try to get the relief a/c --LUCAS 14-- on-station as soon as possible. LUCAS 14s scheduled take-off time is 1800Z, but will try to expedite. 30 was also adv to pass on their fuel state to ACU. (TT)

8975 Envoy 609 0623 USB w/RAAF Darwin, Re over night accommodation in Cairns, and to advise there respective wife's of this stop over. Envoy\609 is a Falcon 900 VIP jet for the RAAF 34 sqd. (SB)

8989 CHR: 0205 USB Trenton Military, Ont CAN, wkg unid one word callword sta w/morale pp, very weak here. (RB)

8992 ARMY 40481 1752 USB wkg MacDill. (MJ) MacDill GHFS: 2145 Fl, US wkg REACH 1687 w/pp HYLDA re dep MUGM 1924z, late departure due to upload problems. ACW 360: 2238 USB wkg MacDill GHFS w/pp req, weak, QSY 11175 (not hrd). BH 30136: 2241 USB clg Mainsail, then wkg MacDill GHFS re pp req, DSN not hrd. (RB) SEA TRAIN 1521 USB wkg 9KY w/radio checks & attempted cks in ANDVT encrypted voice; one unit never could decrypt the other's ANDVT xmsns. Per JH, SEA TRAIN subsequently appeared in the NIGHTWATCH net; apparent E-6 TACAMO. (RJL)

9007 IFB 48 EG-DL 2352 USB wkg Trenton Military for an ARP (PI) CanForce 6110: 204 wkg Trenton Military w/late departure msg to 429 Sqd, Trenton Op's, dep Dannelly Field1955z, est Toronto 2315z, est Trenton 020100z, selcal ck GH-AK. CanForce 6105: 205 wkg Trenton Military w/op's normal report. (RB)

9009 Brazilian Air Force 2455 1500 USB wkg Hermes R. (Rio de Janeiro) rpting arr. Sao Jose dos Campos 1455 C130E reg. 2455 (FLF) FAB 2402 1915 USB wkg Hermes R. dept. msg from Rio-Galeao mission number 102, ETA Porto Alegre 2050. FAB 2466 1900 USB dept. msg from Navegantes ETA Alfonsos 2030 wkg Hermes R. w/other tfc (FLF)

9014 Air-to-Air comms 0046 USB plus some RAYMOND 7 activity. 'Something' 21 (or something one) 0026 USB wkg RAYMOND 07, getting wx. Also activity at 0119z. RAYMOND 7 1658 USB wkg CHALICE BRAVO's MCC w/att pp to 'RADAR MAINTENANCE'. As with most RAYMOND 7 pp's, this one was not successful, and required operator relay. (Tail # 005; presumed 810005). SHAMU 20 2121 USB wkg RAYMOND 07 w/pp to DSN 527 number (EDWARDS) - lots of pax and humvees. At 2157z, DRAGNET TANGO wkg RAYMOND 07 w/unsuccessful pp activity. CHALICE BRAVO 1658 USB wkg RAYMOND 07 w/unsuccessful pp to RADAR MAINTENANCE. Opr was mcc, & tail number of a/c was "005" (presumed 810005.) GEMINI 85 2014 USB wkg RAYMOND 07, getting info re CANNON AFB active runways. (JH)

9016 WISE 01: 2145 USB wkg Offutt GHFS w/pp to unid DSN. (RB)

9017 BLUESTONE (EAM initiator) 2129 USB wkg MAGNAVOX. BLUESTONE simulcasting EAM on 9017 & 11244. NIGHTWATCH net 2038 USB w/NIGHTWATCH 01 (male and female oprs); MEMORIZE (EAMs simulcast on

9017 & 11244); UNDERDOG; and SKEPTICAL. UNDERDOG has attempted to move SKEPTICAL to CHARLIE BRAVO and CHARLIE ALPHA (6691.0) for ANDVT comms. MEMORIZE 2001 USB simulcasting on 9017 & 11244, w/26-character EAM, picked up by OFFUTT on the GHFS at 2003z. MEMORIZE then worked UNDERDOG and SKEPTICAL. UNDERDOG seemed to be high up in the pecking-order, as he seemed to handle some net housekeeping chores when NIGHTWATCH 01 was not around. By 2036z, NIGHTWATCH 01 up again in the net, w/female opr. NIGHTWATCH 01 2124 USB w/26-character EAM, slightly trailing the GHFS. At 2153z, PARAMOUNT clg NIGHTWATCH 01 w/nothing heard, & then MOTIVATE working PARAMOUNT (both at good levels here). NIGHTWATCH 01 immediately up on freq wkg PARAMOUNT with ANDVT comms. At 2327z, WAR46 wkg NIGHTWATCH 01. WAR46 2023 USB wkg NIGHTWATCH 01. BROWN RAT 1846 USB clg NIGHTWATCH 01 & responded to by BILLY BOB. BROWN RAT with 26-character EAM at 1856z. (ANDREWS on freq at 1859z). KNAPSACK 1447 USB wkg NIGHTWATCH 01 (male opr), entering the net w/challenge process. At 1458z, KNAPSACK wkg NIGHTWATCH 01 (now female opr, and at strong level) with ANDVT comms. During this time period, sometimes KNAPSACK would be responded to by two oprs (the male and female opr) id'ing as NIGHTWATCH 01 at the same time, w/the male opr backing out. At 1634z, ORIGINATE (female opr, & very strong like the earlier NW01 opr) with EAM xmsns, trailing the GHFS, and then calling SUNBATH. WAR46 2303 USB clg NIGHTWATCH 01. At 2326z, TELEGRAM clg NIGHTWATCH 01, then 'any station this net.' FIREBUG 1608 USB wkg NIGHTWATCH 01, entering the net & being advised that RARE COIN is also in the net, 5700 secondary freq. RARE COIN 2023 USB wkg FIREBUG, exiting the net through the challenge process. NIGHTWATCH 01 lurking on freq. (JH) BLUESTONE 1800 USB clg NW, answered by WAR46 who said NW is monitor only at this time NIGHTWATCH 02 1625 USB wkg NW 01, NW 2 reported to NW 1 that they had just landed at Andrews at 1623. (MJ) NIGHTWATCH: 2204 USB wkg ROSEBOWL w/comm ck's, wondered if anyone was still up in the net. (RB)

9023 DARKSTAR MIKE 1705 USB w/AWACS training w/CRISCO, training re 'voicetel on HF, from context of comms, they are involved in an ALLIGATOR Playground. (JH)

9031 3MC (Nimrod) 1143 USB w/Architect re wx EKVG (Vagar, Faroer-Islands) + more. ASCOT 9290 (tanker) 1258 USB Architect calling, no joy. (BH)

9057 MANGROVE 1800 USB wkg NIGHTWATCH 01 in PARKHILL, plus exercise check on 'phoneline.' At 1816z NIGHTWATCH 01 clg DAIRYMAID, but only MANGROVE working DAIRYMAID. At 1820z, NW01 calls WAR46. At 1859z, MANGROVE calls NIGHTWATCH 01. At 1907z MANGROVE, simulcasting on 9057 & 8968 (11244 also at 2028z), w/26-character EAM (OFFUTT on GHFS at 1912z); & confirming same w/NIGHTWATCH 01 (now female opr). GOLD DIGGER 2032 USB ('rare' 10-character call) wkg MANGROVE; WAR46 up at 2033z clg NIGHTWATCH 01, stepping all over GOLDDIGGER. NIGHTWATCH 01 2110 USB wkg FIREBUG (EAM broadcaster); OUTFACE (phonetically spelled); & WAR46. Moved here from 9017, & using secondary freq of 11220 (plus attempted use of 17992 at 2103z+. FIREBUG worked MACDILL earlier in the local afternoon with voice & data on 15043. The MACDILL data transmissions had obvious telco noise artifacts on it's signal (sounds like some numbers xmsns after the voice part is over. NIGHTWATCH 01 2027 USB wkg FIREBUG after moving the net here from 9017. At 2030z, OUTFACE (phonetically spelled to NIGHTWATCH AT 2033z) entering the net with FIREBUG. NIGHTWATCH 01 wkg OUTFACE for a radio check at 2355z. (JH) NIGHTWATCH 01: 1602 USB wkg WAR46 w/comms ck on S309. (RB)

9122.5 USACE net 1504-1512 USB w/WUG, WUE4, WUN, WUO, WUH5, WUJ312, WUC5, & WUE6 all heard. Early end today w/holiday & few checking in. (DHM2) USACE Friday net 1500 with following stations (& others) checking-in w/WUG/Vicksburg: WUK3 Sacramento District, WUI6 St. Worth District, WUJ2 Seattle District. (JP)

10596 IFO 10 (USAF IFOR Bosnia a/c) USB clg PROMENADE, Brindisi ALCE (Airlift Control Element), no joy. (BH)

10780 Cape Radio 0927 USB advising "3262" (I think that's it...) of a brief hold in countdown. (TT)

11059 SAM 203 2000 USB wkg Andy w/pp's. (MJ)

11111 REACH 60199 1434 USB wkg another a/c, pilot mentions that he's doing "this Bosnia thing" - interesting freq. (JB)

11175 AIR EVAC 10T4 1409 USB wkg INCIRLIK w/pp to AVIANO C/P. Carrying a 'DB7'? Codename 'BEAR'. [DV for Distinguished Visitor -RD] SPAR 65 1410 USB wkg CROUGHTON, Moved to 11494 then back to 11175, pp wanted to American Embassy in Morocco. NAVY JM011 1438 USB w/radio ck (AD) SPAR 64 0908 USB Croughton pp Andrews: req wkg freqs: -> 287/646. 287 =11226, -> 295(11460), -> 311 (11220) -> 646/287, 646 = 13440 (loud carrier wave interfering, but they showed up) lost them there. All designators picked out of Rick's list, they were all correct! Thanks Rick :-) [thanks to WUN! -RD] Reach 42366 1045 USB Croughton (C-141B) pp Hilda East: tailnr. 40613, dep Sigonella, eta OKAF (Kuwait Air Force) 1415, A1. OKAF is VFR only, will be arriving around sunset, req waver to dep after sunset to OKBK (Kuwait Intl). Hilda will work that, maybe don't go to OKAF at all, proceed to OKBK direct. Call again in 1 - 1.5 hr. IFO05 0927 USB w/Croughton (IFOR a/c, USAF) no joy. JM 683 1129 USB Mainsail (US Navy) no joy. REACH 40061 1243 USB Andrews (C-5B) pp "1st Squadron Ops". FRY(?) 1149 USB clg Mainsail qsy 17976 w/Croughton: tri-graph tfc. Reach RKD 1158 USB Mainsail no joy (anyone knows who this is? Heard him fly to the middle east a few days ago, civil charter?). BH 30238 1218 USB Croughton (C-5A, 70-0465, IFOR) pp Ramstein PMSV wx ETAR, ETAF (Rhein Main), EGUN (Mildenhall), LERT (Rota) 1800. Ramstein is closed till at least 1500 due to freezing rain. Quid 07 1231 USB w/Incirlik + Croughton (KC-135) w/all frequency calls. Reach 59405 1320 USB Mainsail (C-141B, 65-9405) was LC overhere, Andrews answered, sent him to 15016, where he was almost unreadable. Reach 565VS 1608 USB Andrews pp McGuire CP: tailnr. 59405 (aha!), etb 1915. pp PMSV, pirep: C-141 fl310 5331n 5212w. DINKY 1433 USB Croughton Ops normal 1429, c/s spelled. IFO 61 1606 USB Ascension (IFOR a/c, USAF) pp req., nr. busy/no answer. AMC a/c 70019 C-141B) 1140 USB Any (C-141B) ground maintenance radio check. NAVY 326 (EA-6 fm USS America?) 1150 USB w/Croughton pp 727-2540 (Rota): received nothing, believe it's an on-board the a/c crypto-problem, req call the carrier & tell them to come up on MGAD, have traffic to pass. Later MAGIC 56 (NATO NAEWF E-3A AWACS) checked in & asked if he could be of assistance: "We are in comms w/several US Navy ships", req he call "America": America relayed to come up UHF 368.9, 326 said he was unable, further comms via the ground station (Rota). I was under the impression the a/c was based at the America, as he referred to it as "our carrier" several times. I always wrote down "EP-3" when I heard someone clg this number, it now seems there are other players using it as well. QUID 11 (KC-135) 1247 USB clg Mainsail no joy. QUID 09 (KC-135) 1303 USB Incirlik making all frequency call. SHUCK 48 (E-3) 1304 USB wkg Croughton w/pp Raymond 24 (Tinker Command Post, 552nd ACW): req. status on our tanker request, adv timing is good for second tanker, ETA 2230, cancel the fuel stop at Bangor. Reach 6ZZ 1255 USB wkg Croughton pp PMSV (probably Reach 266ZZ, heard 265ZZ & 270ZZ as well, the last on UHF). IFO 10 (USAF IFOR Bosnia a/c) USB wkg Croughton pp PHANTOM re a PPR nr. for Brindisi, then asked for a freq for Brindisi ALCE (Airlift Control Element): they were given two HF freqs: 10.596 & 14.511 for c/s "PROMENADE". I heard IFO 10 clg PROMENADE a few minutes later on 10.596, he got no answer. Anyone heard any tfc on these two before? (BH) ADMP 2121 USB wkg Offutt pp w/RAIDER at 313-283-3284 ADMP mentioned this DSN as in Panama. [RAIDER is 1097th Trans Co, Rodman Naval Sta, Panama, ADMP logged monthly -RD] ADMP 2140 USB wkg BAYONNE GLOAL, ADMP wanted to try 3284. (EC1) [3284 is a new one for me -RD] RESIDENCE 2353 USB wkg Elemendorf re: wkg freqs for station NIGHTWATCH. After a moment, Elmendorf replied that NIGHTWATCH would be monitor only for the next hour or a little more, & primary was X903, secondary X904. Cameraman 1945 USB wkg Nightwatch. (EG) IFO 67 2048 USB wkg Ascension pp. Rhein Main ACC: Reason for delay is heavy snow at LQTZ (Tuzla). ETA Rhein Main is 2230. REACH 68304 1845 USB wkg Croughton pp. EDAR PMSV. Req. wx for EDAR/2100z EGUN/2200z Pirep: 59.04n 12.30w. REACH 70025 0920 USB wkg Ascension Req. wx EDAR/1200 Pirep: C-141, FL330 45n15w. REACH 90022 0941 USB wkg Croughton pp Ramstein CP, inbound ETAR/1200z C-5, 76.000 lbs, 3 rolling stock, 73 pax, Quick turn to Lajes, crew rest at Lajes. Req. wx. ETAR arrival 1200z, departure 1600z, arrival Lajes 2100z Pirep:38.55n 42.58w FL310. (HW) BULL 78 1106 USB wkg RAMSTEIN

OPS via CROUGHTON. TEAL 44 1447 USB pp MIAMI MONITOR via MACDILL (WC-130). SAM 970 1430 USB wkg ANDY VIP qsyed to F064 (11.214). SAM 970 1432 USB wkg ANDY VIP qsyed to 11.180. SAM 970 1434 USB wkg ANDY VIP qsyed to 6.715. IF 09 0811 USB wkg TAC CENTER via CROUGHTON Pilot gives airfield condition report from Tusla (must have been one of the first in). IF 012 1334 USB pp RAMSTEIN METRO via CROUGHTON (C-130). IF 082 0805 USB clg MAINSAIL - no joy. IF 048 1250 USB wkg INCIRLIK. IF 092 1250 USB pp RAMSEY(?) via INCIRLIK Pilot says he's inbound to DELTA. (Is RAMSEY a cp for the Bosnian operation or RAMSTEIN? I heard clearly as RAMSEY and the pilot repeated it several times). FLASH 13 1312 USB wkg TALON OPS via CROUGHTON pilot gives ETA and also warns that they are carrying live weapons. BH 4085 1316 USB wkg FRANFURT METRO via CROUGHTON. ADMP 0954 USB clg BAYONNE - no joy. BLUE 13 1124 USB wkg RAMSTEIN CP via CROUGHTON. He's leading 6 F-16s as part of a RETRO mission and wants to land them at RAF LEUCHERS, Ramstein tells him to try ETNN or RAF CONINGSBY instead. BOOKSHELF 63 1507 USB wkg ALLYCAT via CROUGHTON. (JB) Hobby 71 1836 USB wkg Bayonne GHFRS. REACH 50242 1845 USB wkg Bayonne GHFRS. AIREVAC 700004 1845 USB wkg Bayonne GHFRS. (JC2) MOGAS 45 KC-? USAF (spelled) 1050 USB pp Mildenhall metro for Wx 1200z & depart 1630z. Later also on 299.975 London mil. Sam? 676 1145 USB "Andrews says go to 365 (at 11059). [yes SAM= Special Air Mission, 11059 fairly popular -RD] Gold 91 KC-? 1150 USB A/c very bad readable, ab't 087 going back to the Azores w/generator problems. Also something like "Slip 51 departs tomorrow at 0500z". Not sure about that though. Darkstar 1420 USB pp Chevy Ops, Ab't JTIDS ck & contacting Ops on SATCOM. posn boot of Italy. While checking out w/Global stated "Shuck 56 out." E-3 965 ACCS. IFO 10 (IFOR Bosnia) 1153 USB pp Phantom, freq's given to him were (p) 10596 & (s) 14511. Both being "Promenade". Shuck 49 1736 USB pp EUR DSN 329-4123 but live sucks, no joy. Does someone know the Base belonging to this tel nr? For sure it is in Germany, Geilenkirchen perhaps. IF16,12 0837 USB pp/w ? App freq Tuzla? UHF 351.8. Dep Aviano 1310 arr Ramstein 1510. Shell 92 KC-135 0908 USB pp/w/ USAFE metro Wx Rhiyad 1030Z. HERKY 646 0945 USB C-130 37AS "Herky 646" spelled HKY. pp/w Rhein, arrived 1013Z. DAWG 02 0927 USB (C-130 158AS?) pp/w Aviano metro Req Wx Vicenza 1030Z. Quid 07 KC135 100ARW 0930 USB pp/w IN metro for Wx 1130Z. +13Degrees which is far better than over here. SAM 973 0935 USB Incirlik called him w/all freq/req. & state freq. Nothing. Blue 61 KC-? 0938 USB pp/w any metro, got Sigonella for 1240Z Wx Sig & 1545Z Rota,sSpain. (JF) 2CM (female opr) 1420 USB wkg ALBROOK w/att pp to COMSUBLANT CWO. REACH 258 2011 USB clg MAINSAIL, raising MACDILL, but apparently not hearing MACDILL. REACH 258 had a very powerful carrier component to his signal. ASCENSION 0222 wkg GOLD 71, w/GOLD 71 ex ROTA & assisting an A-10 'flight.' NASA 931 2028 USB wkg MACDILL for a radio check. REACH 4P3 0628 USB wkg ASCENSION w/pp to HILDA EAST. REACH 4P3 weak, & enrt to DRRN ex someplace that sounded sorta like GOOY, but maybe some other G..Y location. GOPHER 64 1831 USB wkg MACDILL w/pp traffic (DSN 825). SAM 201 0401 USB wkg ASCENSION, trying to get ANDREWS freq (F267). (JH) BH30238 (C-5/Tail#0465) 2215 USB pp to Dover Command Post & Metro, Mission: A30238365. (KS) NW01 1245 USB pp to Offutt Metro for wx in area at 1700. ADMW 1553 USB pp thru Albrook to 483rd ? DSN 895 posn rpt & problems w/generator (poss bad fuel). ADMW 1957 USB pp thru Albrook to RAIDER DSN 283 req freq to contact Christobal. Problem: Christobal on Atlantic side & ADMW is on Pacific side, contact Flamingo? (not sure how they resolved this one). DUKE ARCH 1259 USB clg NW01 for freq update, told Pri: P-381 & Sec: S-303 (5700 & 3295). ADMP 0051 USB clg Bayonne, reached Ascension at 0055 for pp to RAIDER w/status rpt. (ADMP very weak here). DIXIE 03 1533 USB pp thru Albrook to Alabama ANG DSN 778 reached supply instead of Ops, Got through to Ops on 1-800-892-XXXX. looking to rendezvous with a group out of Meridian for training check ride. BOXER 94 1729 USB pp thru Albrook to BOXER Ops DSN 858. DOOM 86 1924 USB pp thru McClellan to Raymond 06 DSN 781 left IR (?) due to icing. NAVY JQ21 1936 USB pp thru Andrews to NAS Jax Base Ops DSN 942, took off late, arr Jax 2130 utc. (JQ21 transmitter problem, transmitting on 11175.3). DIXIE 02 2009 USB pp thru Albrook to a CP at DSN 778-XXXX. Poss Alabama ANG. REACH 60197 2103 USB pp thru Ascension to Rhein Main CP (this

followed a pp to Ramstein Metro) (MD) Offutt GHFS 1900 USB w/pp for GONZO 4 to LITTLE ROCK. BOXER 21 1912 USB clg Mainsail, Offutt ansrs, pp to BOXER OPS. Albrook GHFS 2022 USB w/pp for SAM 204, ANDREWS VIP, switched to 11126. Albrook GHFS 2031 USB w/pp for ADMO to RAIDER. Albrook GHFS 2035 USB w/pp for SHARK 28 to LOBO, gives SITREP. Albrook GHFS 2045 USB w/pp for SHARK 33 to LOBO, also to HOWARD METEO. Albrook GHFS 2109 USB w/pp for SHARK 29 to HOWARD METEO. OTIS 61 1927 USB req rdo ck, MacDill ansrs. Albrook GHFS 1947 USB w/pp for SHARK 21 to LOBO & HOWARD METEO. Albrook GHFS 1953 USB w/pp for WAYNE 88 to OAK OPS. SHADOW 12 1938 USB req rdo cks, Offutt is weak but readable. Ascension GHFS 1951 USB w/pp for REACH 90005 to WRIGHT PATTERSON meteo. Albrook GHFS 1956 USB w/pp for SHARK 85 to LOBO, SHARK 85 is Op's Normal, inbound to Bogata. Albrook GHFS 1958 USB w/pp for SHARK 21 to LOBO. Ascension GHFS 2005 USB w/pp for REACH 90005 to HILDA AMERICA, diverting to Wright-Pat due to wx. Offutt GHFS 2028 USB w/pp for HAVOC 42 to Norfolk Meteo. Andrews GHFS 1956 USB w/pp for REACH 60172 to Dover CP & Meteo. GASSER 252 2002 USB clg 'any station', rdo ck, nothing heard. Ascension GHFS 1913 w/pp for REACH 465 to Ramstein meteo. Offutt GHFS 1917 USB w/pp for SHARK 42 to DSN#. RARE COIN 1918 USB req BOOMTOWN to resend test. Albrook GHFS 2024 USB w/pp for SHARK 31 to RAYMOND 9 then Howard Meteo. (MF2) AIR EVAC 50266 1608 USB wkg Albrook. S4JG 1709 USB wkg Andrews w/radio ck. HOSTILE? 15 1712 USB wkg Andrews w/radio ck. DARK 10 1925 USB wkg Albrook w/pp to RAYMOND 37. DARK 19 1937 USB wkg Albrook w/pp's to RAYMOND 37 and DYESS metro. NAVY CW370 1948 USB wkg MacDill w/pp to commercial #. NANNY 99 2017 USB wkg Andrews req authentication for entry into the net (Since when is 11175 a net?), at 2018 w/pp to RAYMOND 12, Andrews adv N 99 to go to 11181. ICER 61 2124 USB wkg Lajes. (MJ) U.S. Air Force IFO77 1333 USB on the ground at Zagreb LYZA, ETA LQSA Sarajevo 1515Z, pp w/USAFE Metro req wx for EDAF Rhein-Main 1700Z, then pp w/Regional Air Mobility Command Center. U.S. Air Force IFO67 1310 USB wkg Croughton, standby at Zagreb. U.S. Navy Catbird 1324 USB VP3A Orion, wkg Croughton, pp to Navy Ops in Naples, re contact between Navy Ops & SPAR 89, which had not yet taken place. U.S. Air Force King 82 1318 USB Search & Rescue a/c not on mission, wkg unid station, pp to Langley AFB Metro, req wx forecast for Langley 1430Z. U.S. Air Force BH30124 1343 USB presumed C141B, tail number 60177, departed 1256 & ETA EGUN Mildenhall 16.00Z, posn 42N50 11E53 (over Italy), pp to Hilda East & Metro. (MS) Navy 202 Heavy: 1910 USB clg any station, rdo ck, TURBO 96 answers. TURBO 96: 1902 USB wkg Offutt GHFS pp, McConnell CP (SHOCKER Control) w/ETA of 2130z, 15 pax, 11 crew, need k-loader & customs. RAZORBACK 42: 1925 USB wkg Albrook GHFS for rdo ck. MUSIC 51: 1944 USB wkg Albrook GHFS for pp FURIOUS, gives tail as 91051, ETA w/42 pax, A-1. ADMW: 1949 USB USAV Malvern Hill (LCU-2025) clg Albrook GHFS, no joy. (RB) RATTLE 21 1633 USB wkg Croughton, pp to 622-2610 ETA LERT 2020. (RC) DERRY 1505 USB wkg Croughton, "Ops Normal 03", Call-sign DERRY was spelled. KING 87 0025 USB wkg Ascension, several pp's & "COWBOY 22 will contact KING 87 on 233.575". DOOM 87 0100 USB wkg Ascension for pp. SHARK 16 2237 USB wkg Ascension, pp to LOBO C/P. (RC) TEAL 44 1444 USB very long pp MIAMI MONITOR v/ MacDill to pass wx observations in coded format; SATCOM not working. RAZOR 03 1622 USB pp Dover Billeting & Dover Transportation v/MacDill; stated EC-135 a/c ... last three of tail # are 518. ADMP 1406 USB pp RAIDER v/Andrews, posn reported near Ft. Lauderdale. SHARK 61 2238 USB pp LOBO, Howard Metro v/Albrook; a/c asked that GREEN CLOVER be notified of 2335Z ETA Howard; this is a new program designator (?) for me. AGAR 29 0227 USB wkg Ascension, presently 533 miles to E of Ascension, ETA 0331Z; was told that AGAR 26 will hold for 29's arrival. Per WUN list, these a/c would be in support of a Titan launch of a Galaxy III comsat from KSC earlier this evening. BRAZILIAN AF 2466 1913 USB clg Andrews, no joy. SHADOW 12 0201 USB pp COYOTE OPS (58th SOW, Kirtland) at DSN 246-0143 v/ Offutt. Asked COYOTE to contact MOCCASIN 02 & ask if they could move ARCT at south end of 117 up to 1930Z (??); aborted low level sortie due to wx. Note that the COYOTE & MOCCASIN ## (58th SOW helos) calls have been in use for at least 1.5 years now; definitely static. SHADOW ## is AFSOC HC-130N/P COMBAT SHADOW a/c. FUZZY 93 1411 USB pp DSN

238-2468/2470 Niagara Falls, NY v/Offutt; answered as FUZZY OPS. This is apparently static call for C-130H a/c of AFRES 914th AW, Niagara Falls, NY. PAT 936 1633 USB pp DSN 936-5261 Cheyenne, WY v/ Offutt, no joy. This is first of these US Army Learjets I have heard in months. PLUG 31 2010 USB pp DSN 875-6701 "SPECTRE OPS at Duke Field" v/ Offutt, the YL at -6701 IDed as SANDCASTLE OPS, revised ETA 2100Z due to favorable winds; call Customs at Eglin to meet us; bunch of maintenance people onboard; will need two crew buses. This would be an MC-130 or HC-130; you can barely walk around inside cargo bay of AC-130 gunships. META 51 2025 USB pp 1-800-242-2694 Wilmington Sec. Police v/Offutt. Asked SP to transfer him to Greater Wilmington tower at 322-4270, pp interrupted numerous times by EAMs. Heard this a/c several times today; evident that it is C-130 a/c from 142d AS/166th AG, Delaware ANG; pilot gave his squadron as "142d" once. (RJL) IFO 81 0221 USB attempting to get a pp via Ascension to a location in italy. Ascension seems to be having difficulty ID'ing pp target. (RR) RAID 45 0059 USB looking for tfc from Ascension. EARL 29 0106 USB calls McClellan for p/p to Mt. Home AFB. Wants ASR [Air Surveillance Radar?] training so co-pilot can upgrade to a/c commander. Using and coordinating through Mt. Home AFB OPS (Idaho, USA), Will return to Fairchild AFB, Washington. [this cud be PEARL -RD] DARK 44 2327 USB at 3430N/10430W at FL 250. Provides info to Dyess AFB, Texas. DARK 44 probably B-1B. (TR) HOOIE 70 2019 USB w/pp via Andrews GHFS to Andrews Base Ops. 70 adv Base Ops that HOOIE 70 was a C-137 with a 2115Z ETA, & req 80,000lbs fuel, loaded from two fuel trucks simultaneously (!), fleet service, 75lbs wet ice, 400lbs dry ice, baggage conveyor, air stairs, & wanted a 2-hour quick turn. Andrews Base Ops adv they will give HOOIE 70 a parking spot when they called in 30 minutes out on UHF. Patch terminated at 2024Z. Probably a C-137 assigned to either SOCOM or SOUTHCOM. SAM 375 2027 USB contacted Offutt & requested a discrete freq. Offutt suggested 11181USB, but SAM 375 req one a few MHz away from 11MHz. Offutt said to try them on 3113! C-20H #92-0375. SLAM 91 2032 USB w/pp to DSN 635-5230 via Offutt GHFS. Number was busy, so SLAM 91 suggested Offutt try ext. 4893, pp to 5th SF (5th Special Forces Group, Ft. Campbell KY) initiated at 2036Z. 91 adv they were an inbound C-141 w/2115Z ETA at Campbell AAF, & would need 50,000lbs of fuel & crew transportation to billeting. PINCH 87 2132 USB w/pp via Elmendorf GHFS to DSN 579-7774. PINCH 79 adv Hurlburt CP that 87 had a maintenance delay at KPOB (Pope AFB), had a 1645L ETA at Hurlburt, & would be maint. status A-3 for System 72 Oscar. Next made a pp to Hurlburt Metro for a 1645L forecast. SIROCCO (USS Sirocco, PC-6) 2108 USB w/pp via Ascension GHFS to a DSN 564 (USN, Norfolk VA) number. Sirocco adv Fleet Relay that Sirocco needed QSLs for several msgs sent via Primary ship to shore, Northern Net (probably SATCOM). It took the guys at Fleet Relay about 10 minutes to find some of the msgs & QSL them. Sirocco adv Fleet Relay to send QSLs to NAU for transmission to Sirocco via the Southern Net, because Sirocco was having LMUL problems & thus not receiving the Northern Net well. 170 Cyclone class coastal patrol vessel. SHARK 27 2135 USB w/pp to LOBO via Offutt GHFS. 27 advised LOBO they had departed last location at 2042Z, & had a 2300Z ETA at Howard. LOBO req SHARK 27s current location, & SHARK 27 adv 05-19 North, 075-22W. Patch terminated at 2137. SHARK 27 was exactly 2593 miles away from my receiving location, on a bearing of 173. SOUZA 62 1937 USB w/pp to DSN 564-1305 via MacDill. 62 advised BLACKHAWK CONTROL that SOUZA 62 had 40,000lbs fuel, and would be staying up until Bingo point, & req that BLACKHAWK CONTROL (VP unit at NAS Norfolk) advise Maintenance of that. (TT)

11176 LONGHORN 27 1833 USB wkg Clg Incirlik on 11176. No contact. (HW) AIRCRAFT 490 2115 USB clg any station for a radio check. (This is about the fourth call in the past hour to use '76 instead of '75, but the only CS i was able to catch) (MD)

11178 PEMMB 1557 USB clg PEMM? (poss E). Stated "A message in Dutch" & then started talking in that language. (MD) [PE-MMB is a Dutch Navy Fokker F-27MPA (maritime patrol a/c) out of Curroco -RD]

11180 SAM 970 1433 USB wkg ANDY VIP (no joy). (JB)

11181 NANNY 99 2022 USB wkg Andrews, at 2026 authenticated securing from

the net. (MJ)
11185 ADMO: 2111 USB USAV El Caney (LCU-2012), wkg Albrook GHFS w/pp RAIDER (Panama), re posn/status, cargo of 9 vehicles. (RB)
11199 Camspac wkg Xray 1 Echo on USB at 1752. Commsta Honolulu wkg X1E at 1743. X1E w posn rpt (2323.9N, 163.50W) to Commsta Honolulu. (RM) [first time I've seen a CG log here, 11199 is as 5693 & 8980 are to 5696 & 8983 -RD]
11212 MKL: RAF Edinburgh, G 2000 CW w/coded tfc. (PS) MKL: 1104 CW RAF Edinburgh,G w/wx & msgs "G9R G9R G9R de MKL MKL MKL O GR 06 = DUE G7V 3MA R3H R7R QI7 = PP TAFS = EGQK 0903 21005 9999 FEW025 = EGQL 0903 VRB07 9999 FEW025 =" "VVV de MKL ZNB". (PS2) MKL: CFL 9 says Pitreavie, Scotland 1012 CW meteo/wx then VVV DE MKL ZNB; went into RTTY 1013. (RH) [as Ary pointed out several issues ago, CFL is correct, MKL is RAF Pitreavie -RD]
11214 SAM 970 1431 USB wkg ANDY VIP (no joy). (JB)
11214 RAZOR 03 1709 USB wkg RAYMOND 24 on CHARLIE 6. VENUS 78 1550/1713 USB wkg Raymond 24 (Tinker AFB), at 1550 Raymond 24 set up a pp with SAM command. (JH) VENUS 78 1550 USB working Raymond 24 (Tinker AFB), at 1550 Raymond 24 set up a pp w/SAM command. (MJ) SENTRY 50: 2058 USB USAF E-3 AWACS wkg RAYMOND 24 w/op's msg. (RB) SAM 049 & 683 1723 USB pp SAM COMMAND v/Andrews VIP. Both a/c made arrangements w/Andrews VIP to come up this freq at 2100Z to make comms arrangements for next flight legs. At 2105Z, SAM 049 appeared to run pre-flight checks w/ Andrews VIP; was told to use F117 (6993) primary, ran checks there. Also indicated two other a/c using F64 (6817). SAM 200 1902 USB pp Fleet Service at Andrews v/ Andrews VIP on "64" to order trash bags, Velamints, etc, ETA Andrews 3:45 PM. GONZO 04 2003 USB pp Scott AFB Ops Av576-1861 v/ Trenton; passed ETA 2050Z w/ 10 crew; need 3000 lbs jet fuel; stated they were a CANFORCE a/c from Winnipeg. Jeff Haverlah & I spoke w/the crew of one of these (I can't recall the a/c type) long-nosed radar & navigation trainers at the Randolph AFB airshow back in May 1995. Trenton told the a/c to use 11232 pri/9007 sec. (RJL) GONZO 04 2009 USB w/pp via Trenton Military. Heard sign off, 9007 was given as secondary. (RR)
11217 NIGHTWATCH 01: 1722 USB wkg MacDill, sounded like practice comms for MacDill GHFS RO on Christmas Eve. (RB) AIREVAC 70004 1858 USB pp Andrews Metro v/ Bayonne after QSY de 11175. (RJL)
11217 DOD CAPE 0931 USB space shuttle launch comms, DOD CAPE just advised CLEARANCE 1, KING 1 & KING 3 that the launch is currently in a 3 minute hold, & then they'll commence a 5 minute countdown. (TT)
11220 SAM 27 1533 USB wkg ANDREWS w/pp to Langley AFB for wx ck (AD) NIGHTWATCH 01 1618 USB wkg SHERLOCK. SAM 29000 1925 USB wkg ANDREWS, w/suggested use of F917 (unk here.). 'something' (REDGULL or FRISCO or somesuch) 2028 USB clg NIGHTWATCH 01; EAM xmsn at 2043z (on the GHFS at 2045z). FIREBUG 1834 USB wkg NIGHTWATCH 01 in voice & data. FIREBUG 2003 USB w/2 26-character EAMs, simulcasting on 9017 (primary, & clg NIGHTWATCH 01 and then calling RARE COIN, w/nothing heard on 9017). (JH) AIR FORCE ONE 1816 USB wkg Andrews w/comm ck. AF1 1942 USB wkg Andrews, req freq used by 28000..given 873. TOM THUMB 1816 USB wkg NW01 to join net, NW gives other stations in net & passes EAM to TT (DN35BR preamble). TORO 1825 USB wkg NW01 to join net. BLUESTONE 1759 USB clg NIGHTWATCH. SAM 29000 1855 USB wkg Andrews w/multiple pp's. (MJ) TROUT 99: 1549 USB wkg Andrews w/comm cks. (RB) SAM 26000 1904 USB pp USAFE Metro v/ Andrews VIP on F311 after QSY de 11175 following p/p v/ Andrews Global to Andrews VIP. SAM 202 had jumped in the middle of 26000's p/p on 11175 kHz; Andrews VIP op was irritated and told 202 to go to F295 (11460) & STAY there! (RJL)
11226 Headdancer 0918 USB w/Lajes (EC-135K) pp V698-(?. control) req est t/o time for Blue 94: 1419Z. Tell them we'll be monitoring HF 6761. pp McConnel CP: req et t/o Blue 95: 1608Z, up on 6761. I was under the impression c/s Blue were tankers operating out of Mildenhall, seems not to be the case anymore. (BH) SAM 204 2035 USB wkg ANDREWS. ANDREWS 1900 USB wkg VENUS 78 & VENUS 79 w/various pp's. VENUS 78 1825 USB multiple pp's w/Andrews. VENUS 78 ID'ed as a C-135 enrt to Hunter Army Airfield eta 1930z w/20 pax on board. VENUS 78 1839 wkg ANDREWS w/pp to HUNTER OPS. Also on freq, VENUS 79 wkg ANDREWS. (JH) Andrews 1900 USB wkg VENUS 78 & VENUS 79. (JJ) Andrews

1853 USB wkg VENUS 78 & 79, can anyone ID this call? (MF2) [89th AW SAM a/c on training mission -RD] VENUS 78 1825 USB made multiple pp's w/Andrews. VENUS 78 ID'ed as C-135 enrt to Hunter Army Airfield eta 1930z w/20 pax on board. (MJ) VENUS 78: 2007 USB wkg Andrews w/pp SAM command re departed 2004, ETA in blocks 2138z. (RB) SAM 204 2050 USB pp SAM COMMAND v/Andrews VIP. LQA bursts heard here just after pp ended. (RJL)

11229 DAIRYMAID 2007 USB wkg NIGHTWATCH 01. At 2015 on 9057, DAIRYMAID goes through challenge process to exit the net with NIGHTWATCH 01. (JH)

11235 REACH 5024 0019 USB to RAAF Darwin w/wx for Alice Springs air port. This a/c is the weekly re supply of the Pine Gap "spy base" & is a C-141 or C-5 a/c. (SB)

11243 NIGHTHAWK 7 1655 USB w/in-the-clear and ANDVT comms w/one id'ing as VENUS 7 (or at least sounds like VENUS 7 - he's weak so it might not be VENUS; but it does involve '7'). VENUS 7 1644 USB w/very weak clear voice & ANDVT comms w/NIGHTHAWK 7. WUN lurker (thanks) advised that VENUS 70 also active at same time period on 6717 w/ANDREWS/SAM COMMAND stuff. (JH)

11244 Dizzy 99 1210 USB wkg ?. (JF) IAF 001 0717 USB att get wx info, worked ANDREWS here, QSY to 8968; worked ANDREWS; raised LAJES; & LAJES moved him to 6739. SAM 049 1725 USB wkg ANDREWS. MCCLELLAN 1327 USB as lead station with 131+/- character EAM: DN5NUH. Then at 1415, MCCLELLAN as lead station with 74+/- character EAM DNTZXN. OFFUTT 1506 USB as lead station w/heavy 30 minute EAM activity between 1500z/1530z: 1506z (20 characters); 1510z (FOR REGION CHARLIE - 20 characters); 1518z (20 characters); 1522z (26 characters). RAZOR 03 1704 USB wkg ANDREWS w/pp to RAYMOND 24, w/comms involving RAZOR 01. At 1706z, RAZOR 03 and RAYMOND 24 moved to CHARLIE SIX, where they tried to continue the conversation (11214). At 1715z, back up on 11244 w/pp to RAZOR 01 (excellent circuit). LOSTTIME 1756 USB wkg MACDILL, getting working freqs for NIGHTWATCH 01 (MACDILL said X903 & P301 - presumably P381); & placing a pp to DSN 339 number id'd as VQ4 OPCON w/immediate traffic of nine 3-element groups. OVERSLEEP 1850 USB calls MAINSAIL, raises MACDILL, pp is placed to common DSN 339 number (VQ4 OPCON) where the chatter involves BOOMTOWN and direct comms with BOOMTOWN on CHARLIE ALPHA. OVERSLEEP completes the patch & quits the freq. SUMMARIZE 1706 USB periodically clg WGY912 on 11244 which SUMMARIZE is id'ing as FOXTROT 26. (No activity is being heard on 10493.0 which is shown in directories as F26). POSTBED 1605 wkg OFFUTT looking for NIGHTWATCH working freqs: X903 & X904. WHEATIES 2034 USB clg MAINSAIL; NIGHTWATCH 01; and MAINSAIL again. At 2117z, WHEATIES raises THULE. ANDREWS 1846 USB as lead GHFS station, w/78-character EAM (DNZRMU...). At 1926z 'something' 29 (could not make out call) working OFFUTT, passing 3-element groups/timestamp/ authentication. (JH) GIN SOUR 2134 wkg Thule, Thule gives primary P381 secondary X902. CLAYBIRD 1820 USB wkd Offutt on 11244 at 1820 w/pp to DSN 271 1806, a station called OVERFLY (or OVERFLIGHT). DSN 271 is exchange for Offutt AFB. (MJ) CLAYBIRD: 1822 USB wkg Offutt GHFS w/pp OVERDRIVE at STRATCOM for comms test. TESTI 29: 1910 USB clg Mainsail, Albrook answers, gives them an op's normal to be relayed to Offutt & authenticates. Offutt comes up to adv they copied the tfc direct. (RB) OSCAR 91 1725 USB to Oscar control, short traffic. (RR) WHEATIES 2032 USB clg Mainsail, no contact, then called Nightwatch 01, no contact, "Be advised nothing heard, out." (RR)

11246 Unid 1819 USB "Any receiving station this is 'something' 004" (too weak to make out the call), twice and gone. (JH)

11247 ASCOT 5930 1357 USB wkg ARCHITECT re destination ENGM. Selcal AH-KM ASCOT 9303 1503 USB wkg ARCHITECT re Depart LICJ @ 1300 DIAG'13,10. Est EGVN @ 17:20 DIAG'17,30. Selcal EF-AJ. IFB 15 1558 USB Cyprus (IFOR a/c, CAF) went to 13 megs & lost ctct. ASCOT 3415 (Tristar) 1148 USB clg Architect no joy. RRR 3414 was in Africa a day before, same a/c? (BH) Ascot 3221 (LM-BK) 1435 USB wkg Viper R. FALKLAND IS. rpting ETO 5S 1635 and ETA Ascension 2100 (FLF) [Fabio mentions that this is a Brazilian Air Force tactical freq, and it is the first time he has heard the RAF using it!] ASCOT 4080 1000 USB clg unid stn req 25,000 lbs of fuel. ASCOT 5266 0548 USB QSL'd wx for Larnaka & Akrotiri by EE. male op. SELCAL AH-GJ. (RH)

11460 SAM 27000 2308 USB wkg Andrews w/comm ck. (MJ)

13200 Reach Z7 1135 USB Croughton (C-5B, 85-0003) pp Mildenhall AMCC: C-5, ABA2G8 mission, tailnr. 50003, etb 1405, A3 for HF radio - sounded if he was under water :-) - next destination Lajes, req if any outbound cargo. pp PMSV wx EGUN 1400, EGPK (Prestwick) 1500, ETAR (Ramstein) 1600. (BH) Gold 13 1152 USB pp EGUN metro for Wx ETAR, ETAD, EGUL and EGUN. (JF) WHEATIES 2119 USB wkg THULE w/pp to common DSN 339 number (OPCON.) (JH) WHEATIES 2126 USB w/"OP CON". (RR)

13211 SAM 681 1726 USB wkg Andrews, at 1933 reports airborne. SAM 204 1934 USB wkg Andrews. GIN SOUR 2122 USB clg NW01 no joy. TORO 1828 USB wkg NW01 checking secondary. (MJ) TROUT 99 2012 USB pp DISPATCH (Edwards AFB) v/ Andrews VIP. (RJL)

13242 KUDZU 08 1718 USB pp LOBO via Albrook after QSY de 15016; flight of three C-130s to Howard w/ CORONET OAK personnel. I have since confirmed this is a static call for one of the Georgia C-130 units; most probably the AFRES 94th AW at Dobbins ARB, Marietta, GA. (RJL)

13248 AF1 1944 USB wkg SAM 2800, req go to Nationwide (415.7). (MJ)

14441.5 NNN0COG: 1645 USB USS Enterprise (CVN-65 (MARS Sta) clg ASSMS w/beam heading of E. NNN0CYU: 1724 USB USCGC Vigilant (WMEC-617), MARS Sta, clg ASSMS, NNN0EIZ answers, QSY to 14470. NNN0CUB: 1746 USB USS Arthur W. Radford (DD-968), MARS station aboard this Spruance-class destroyer, att to work private shore station NNN0HLQ in Texas, no joy. NNN0CWY: 1800 USB USS Carl Vinson (CVN-70), MARS Station, clg ASSMS w/beam heading of SW, no joy. NNN0COP: 1802 USB Unid USN ship (MARS) clg ASSMS w/beam heading of S/SE. ID? NNN0COL: 1803 USB Unid USN ship (MARS) Larry, wkg NNN0JJZ, Jim in Independence, MO, w/QSY to 14463.5 for pp tfc. NNN0CWY: 1803 USB USS Carl Vinson (CVN-70), MARS Station, att to work NNN0ERA, private shore sta, no joy. NNN0NHO: 1810 USB Unid wkg NNN0BMV (private shore sta), w/rdo ck, QSY 14391.5 pp tfc. NNN0CXG: 1814 USB USS O'Bannon (DD-987) MARS sta, clg ASSMS, NNN0HLQ (Tx) answers, QSY to 14474 for pp tfc. NNN0CBS: 2010 USB USCGC Durable (WMEC-628), MARS Station, clg ASSMS, w/beam heading of S. NNN0NXL: 2101 USB USS Ashland (LSD-48) MARS Station, att to work NNN0MPN, MCB Camp Pendleton, Ca, no joy, MPN clg any afloat unit. NNN0CZJ: 2115 USB USS Arkansas (CGN-41) MARS Sta, clg ASSMS no joy. (RB)

14615 REACH 40643 1037 USB wkg Ascension pp KWRI CP: ETA KWRI 1550z, A.1. (HW)

15016 Unid 1851 USB wkg Bayonne GHFRS, rdo ck x2. (JC2) BH30264 1220 USB Wx ETAF pp Hilda tail 70041. Had troubles in Flamboro track. Pos tanker was Fl am.West while he waited Flam. East, little mistake. At same time logged at UHF A/R freq 299.5. Gold 71 KC-10 0815 USB pp/w Rota for Wx LERT 1550, LETO 1550 & LICZ 1320. (JF) Albrook GHFS 1930 USB w/pp for KING 82 to KING OPS. Albrook GHFS 2113 USB w/pp for ADMP to RAIDER for posn report. Andrews 1935 USB w/pp for REACH 76165 to a DSN # at McGuire. MacDill GHFS 2006 USB w/pp for JAYHAWK 11 to DSN#. (MF2) [this is probably JHAWK 11 -RD] GIN SOUR 2125 USB wkg Ascension, req freqs for NW01. At 2132 Ascension came back and told GIN SOUR that one of his transmitters just "kicked off" & he needs to get it up before he can work w/him. GS says that he will use another station. REACH 60023 1627 USB wkg Andrews w/pp to Dover CP. (MJ) HORSE 95: 1953 USB C-130 wkg Ascension GHFS w/pp TACC-America, Ascension adv to stand-by for 'Hilda America', ID's as a C-130 flying Rossie Roads to NAS Norfolk. (RB) BH043: 1300 USB wkg Croughton, on Ground Gander. ETD 1500Z [USAF Bosnia flight]. (RC) G1S 1916 USB pp GROUP 2 OPS (at (804) 887-7383 Norfolk VA) v/Bayonne. G1S IDed as Lt.Cmdr. w/WATCH TEAM ONE deployed Port Everglades, "demonstrating comms activity". GOLD 91 1436 USB pp Lajes Metro v/ Lajes; IDed as KC-135 a/c 255 mi NW of Lajes. SAM 787 1408 USB pp Andrews Metro v/ Lajes to rqst Andrews wx for 2300Z tomorrow (!?!) (RJL)

15034 Edmonton Met 1325 USB Wx for Edmonton, Abbotsford, Gander, Halifax, Shearwater, etc. (RC)

15041 WAR46 2038 USB wkg NIGHTWATCH 01 (unheard here.). (JH)

15043 FIREBUG 1856 USB wkg MACDILL for voice and unsuccessful data xmsns. Moved here from 11175; 11181; & 13242. Mention of 'northwest quadrant' & the 'omni antenna.' During MACDILL's data xmsn (but not voice), there was a telco noise artifact on the signal. And the data signals were qrm'd by apparent ALE pulses. (JH)

15912 Irish Military to Lebanon 1236 USB pp to Peace Keeping troops. Later

SITOR A traffic. (RC)
16034 4XZ: ISR NAVY HAIFA, ISR 0637 CW CQ DE 4XZ & msgs encrypted. (EW)
16246 CAPE RADIO 1956 USB ARIA 2, ARIA CONTROL. (MJ)
17976 Offutt GHFS 1924 USB w/pp for REACH 60147 to McCORD METEO. (MF2)
17992 OUTFACE 2107 USB clg NIGHTWATCH 01, hearing nothing, & gone. (JH)

=ALL OTHER SSB/AM/CW/& MISCELLANEOUS MYSTERIOUS STATIONS=
66.7 RBU: Moscow TS, RUS 1800 AM TS (still alive; audible w/ferrite rod antenna after nulling out strong mil stns) (KB)
205 XZ: 0735 Wana, ONT, Can. (BH2)
206 QI: 2041 Yarmouth, NS, Can. (BH2)
213 YRC: 0700 St. Honore, PQ, Can. (BH2)
219 YMG: 0722 Manitouwadge, ONT, Can. (BH2)(JL2)
221 HM: 0715 Hamilton, ONT, Can. (BH2) Unid beacon FB. (JL2)
224 QM: 0711 Moncton, NB, Can. (BH2) Unid beacon YYW. (JL2)
228 BA: 0704 Westfield, MA. (BH2)
232 GP: 0653 Gaspe, PQ, Can. (BH2)
233 QN: 0650 Nakina, ONT, Can. (BH2)
235 CN: 0628 Cochrane, ONT, Can. (BH2)
239 FE: 0725 Forestville, PQ, Can. (BH2)
241 HF: 0420 Hearst, ONT, Can. (BH2)
242 YMY: 0635 Ear Falls, ONT, Can. (BH2)
247 YDP: 0620 Nain, NF, Can. (BH2)
248 HZP: ZIONSVILLE, IN, USA 1651 CW w/ID. (AE)
250 YTJ: 0410 Terrace Bay, ONT, Can. UAC: 0711 Poste Montagnais, PQ, Can. (BH2) Unid beacon YTJ. (JL2)
252 Unid beacon YTF. (JL2)
253 YTF: 0418 Alma, PQ, Can. (BH2)
254 Unid beacon 5B. (JL2)
256 UNV: 0522 Nuevas, Cuba. (BH2)
258 ZSJ: 0602 Sandy Lake, ONT, Can. (BH2)
259 YLP: 0639 Mingan, PQ, Can. (BH2)
260 YAT: 0459 Attawapiskat, ONT, Can. UFX: 0510 St. Felix Valois, PQ, Can. PYA: 0515 Penn Yan, NY. (BH2)
263 F: IQALUIT, NWT, CAN 1932 CW w/ID. GGP: LOGANSPORT, IN, USA 1935 CW w/ID. (AE)
264 IN: INDIANAPOLIS, IN, USA 1051 CW w/ID. (AE)
265 SXD: 0701 Springfield, VT. (BH2) Unid beacon XPZ. (JL2)
266 B: 0702 Hamilton, ONT, Can. (BH2)
270 EZM: 0651 Eastman, GA. (BH2)
275 R1: 0443 Thetford Mines, PQ, Can. (BH2)
276 YEL: 0446 Elliot Lake, ONT, Can. (BH2)
278 FKR: FRANKFORT, OH, USA 1149 CW w/ID. (AE)
280 QX: 0555 Gandef, NF, Can. (BH2)
284 L: 0606 Montreal, PQ, Can. (LIMA). (BH2) Unid beacon DTI. (JL2)
291 9Q: 0618 Amos, PQ, Can. (BH2)
296 HBZ: 0554 Heber Springs, AR. (BH2)
300 YOG: 0338 Ogaki Post, ONT, Can. UGT: 0336 Guantanamo, Cuba. (BH2)
304 F: 0649 Moncton, NB, Can. (BH2)
305 YQ: 0650 Churchill, MAN, Can. (BH2)
312 Unid beacon UUU. (JL2)
328 YTL: 0104 Big Trout Lake, PQ, Can. (BH2) Unid beacon YHN. (JL2)
332 FIS: 0547 Key West, FL. (BH2)
335 K: 0114 Waterloo-Wellington, ONT, Can. (BH2)
336 DE: 0611 Detroit, MI. (BH2)
338 UMP: IND METRO, IN, USA 1651 CW w/ID. (AE) ZEM: 0623 East Main River, PQ, Can. (BH2)
339 LQX: 0615 Lehighton, PA. (BH2)
344 YGV: 0635 Havre-St. Pierre, PQ, Can. VU ?: 0639 UNID. O: 0537 Ottawa, ONT, Can. AVN: 0130 Rochester, NY. (BH2)
346 YXL: 0700 Sioux Lookout, ONT, Can. (BH2)
347 Z8: 0139 Rivere Ouelle, PQ, Can. (BH2)
349 FV: Unid 1159 CW w/ID. (AE) APG: 1920 Aberdeen, MD. (BH2)
350 D7: 0215 Kincardine, ONT, Can. (BH2)
353 FOA: 0716 Flora, IL. (BH2)
354 Z: 0420 Sept Isles, PQ, Can. (BH2)
355 YWP: 0426 Webequie, ONT, Can. (BH2)
356 AY: 0428 St. Anthony, NF, Can. YBG: 0548 Bagotville, PQ, Can. (BH2)

357 MS: 2038 Monticello, NY. (BH2)
360 LYS: 0729 Lyndon, NY. (BH2)
362 LYL: LIMA, OH, USA 1957 CW w/ID. (AE) SC: 0248 Sherbrooke, PQ, Can. (BH2)
363 ZB: 0515 Springdale, NF, Can. (BH2)
364 G: 0506 Halifax, NS, Can. (BH2)
365 FT: 0526 Fort Worth, TX. (BH2)
369 TT: 1656 Trenton, NJ. (BH2)
370 GR: 0541 Iles de Madeleine, PQ, Can. VVC: 0626 Villa Viencio, Columbia. MQI: 2058 Manteo, NC. (BH2)
371 AI: VIDEO, IN, USA 1212 CW w/ID. (AE) GW: 0546 Kuujjuarapik, PQ, Can. (BH2)
374 OVO: NORTH VERNON, IN, USA 1215 CW w/ID. (AE)
377 MCX: MONTICELLO, IN, USA 1218 CW w/ID. (AE) BRA: 0555 Asheville, NC. YRR: 0612 UNID - positive ID. (BH2)
379 YPQ: 0627 Peterborough, ONT, Can. (BH2)
382 POS: 0607 Port of Spain, Trinidad/Tobago. 2F: 0327 Bathurst, NB, Can. (BH2) UPA: Punta Allegre, Cuba. YPL: Pickle Lake, ONT Canada (JL2)
384 UWL: NEW CASTLE, IN, USA 1656 CW w/ID. (AE) F8: Victoriaville, QUE Canada (JL2)
385 GAI: Gaithersburg, MD (JL2)
386 COM: Coleman, TX (JL2)
387 6E: 0626 Grand Manan, NB, Can. (BH2) PV: Providenciales, Bahama Islands (JL2)
388 CFJ: CRAWFORDSVILLE, IN, USA 1221 CW w/ID. (AE) H7: 0619 Manitowaning, ONT, Can. NS: 2127 Kirkland, PQ, Can. (BH2) MFV: Melfa, VA. AM: Tampa, FL (JL2)
390 JT: Stephenville, NFLD Canada (JL2)
391 CPB: CULVER, IN, USA 1225 CW w/ID. (AE) 3B: 0602 UNID - positive ID. (BH2)+(JL2) DDP: San Juan, Puerto Rico (JL2)
392 ML: Charlevoix, PQ Canada (JL2)
394 YB: North Bay, ONT Canada (JL2)
395 XR: Unid 1231 CW w/ID. (AE)
396 JC: 0402 Rigolet, NF, Can. PH: 0349 Inukjuak, PQ, Can. (BH2)
400 NHK: 0446 Patuxent River NAS, MD. G: Windsor, ONT Canada (JL2)
401 ROB: Waco, TX (JL2)
402 C: 0544 Camaguey, Cuba. (BH2)
403 R: 0607 Toronto, ONT, Can. (BH2) Unid beacon LTS. (JL2)
404 IUB: 0535 Baltimore, MD. (BH2)+(JL2) CKI: 0507 Kingstree, SC. (BH2) YSL: St. Leonard, NB Canada (JL2)
405 7L: 0550 La Sarre, PQ, Can (prev id'ed as ZL or 7L). (BH2) Unid beacon LTV. (JL2)
406 FLR: 0443 Fall River, MA. (BH2)
407 RV: 0516 Reedsville, PA. (BH2) AKL: Haskell, TX. H: Montreal/Saint Hubert, QUE Canada (JL2)
408 SN: 0526 St. Catherines, ONT, Can. (BH2)
410 BA: COLUMBUS, IN, USA 1234 CW w/ID. (AE) BA: 0501 Columbus, IN. (BH2)
411 VFU: VAN WERT, OH, USA 1236 CW w/ID. (AE) VFU: 0515 Van Wert, OH. (BH2) CTZ: Clinton, Nada (JL2)
413 YHD: 0512 Dryden, ONT, Can. (BH2)
414 BC: Baie Comeau, PQ Canada (JL2)
415 ASJ: 0531 Ahoskie, NC. (BH2) CBC: Anahuac, TX (JL2)
416 BKL: 0331 Cleveland, OH. (BH2)
417 HHG: Huntington, NC (JL2)
419 HQT: Coats, NC. RYS: Detriot/Grosse Ile, MI (JL2)
420 CFY: 0345 Lake City, SC. (BH2)+(JL2) GAS: Gallipolis, OH (JL2)
421 EF: McKinney, TX (JL2)
423 AU: 0350 Auburn, AL. DXE: 0411 Dexter, MO. (BH2)
427 SYW: Greenville, TX. FTP: Fort Payne, AL (JL2)
428 COG: 0450 Orange (CO), VA (BH2)+(JL2) EEJ: Sanford, NC (JL2)
429 IKY: 0420 Springfield, KY. (BH2)
433 IZN: Lincolnton, NC (JL2)
435 IIY: Washington, GA (JL2)
450 Unid beacon JJA. (JL2)
516 YWA: Patawawa, ONT Canada (JL2)
521 TVX: GREENCASTLE, IN, USA 1651 CW w/ID. (AE)
526 ZLS: Stella Maris, Bahamas. (JL2)
1638 PX: 0231 UNID MW beacon. (BH2)

1700.7 CPA: CW unid NDB or new MEDFER(?), any ID? (MH)
2008.5 UNID. [K4HH] 2023 CW "NIAN de K4HH qsa?" in slow cw. "NIAN de K4HH aa ?" (DW)
2331 Unid "AUU" repeated over & over in CW 0443 Fair signal. (DHM2)
2473 Unid 2240 CW 5LG's. (AB)
2500 WWH: AM 0800 Fort Collins, time pips & voice. Unusually good reception on this low frequency (AW)
2652.9 Unid: 2350 CW Endless 5LG's, going on for over 3 hours! (AB)
3175 SLHFB [V] 2222 CW Single letter [V] HF beacon. (DW)
3417 ART2: 0202 USB broken-EE YL rptg "Alfa Romeo Tango Two". (PS2) [Mossad -RD]
3595 UNID. [TENV] 2225 CW Some v's then "QXI8 D92E NW3Q de TENV qtc ar" twice then "703 9810020 703 = 135 AAAAA DDDDD QQQMM MZZZA AAMMM BBBDD DUUUG GGZZZ HIWBU UJZBG CVTSU" etc uses accentuated letters. Slow morse 18's (DW)
4456 UNID. [APFN] 2319 CW Offline encryption (5ltr grps inc accentuated ltrs). 18wpm. ends"= 867 k". Opr exchanges with REEZ, WHLW. (DW)
5301 OLX: 1858 CW unid w/marker, at 1900Z 5F msgs. (PS2) [MOI Prague, CZE -RD]
5312 UNID. [FLTG] 0723 CW Calls "TS4I de FLTG k" then "r k" "OU6W de FLTG" "r k" "JTTR de FLTG k" "rpt". Other side of qso's not hrd. (DW)
5647.2 Unid: 1104 CW "BFR7 DE 4XML" repeated over like on a loop. (RH)
6797 Numbers station 0759 DSB Female repeating Attencion 13084 in SS, then 13084...150 several times starting at 0801Z, followed by 5-digit groups. Finale 3 times & ended at 0812Z. Signal was peaking at 20dB over 9. (TT)
6941 YZH: 1034 CW unid 5L msgs. (PS2)
7335 OTTAWA TS (CHU) 2257 USB Time signal pips at +1000hz. Alternate EE/FF voice announcements. At 31-40s tone burt at +2000-2300hz. (DW)
7490 Unid: 1157 LSB Indonesian tfc w/Male ops. Mention of Jakarta. Very busy chnl w/several c/c. WJCR almost inaudible.Regular net, often USB when Russian feeder is absent. (RH)
7500 V5N33 (Walvis Bay Radio, Namibia) USB w pp for remote land stations (farms, 4x4 vehicle's, etc.) into the Namibian telephone network. (PC)
7543.5 Unid network in Portuguese language, presumably in Mozambique, but Angola also possible. Doing "roll-call" around 0500 UTC, w/"Papa-Mike" being the controlling station. (PC)
7545 Truck network operating in all of South Africa & Namibia (USB). These trucks do not belong to a company, but are privately owned by the drivers. Most are of refrigerator type. Many load fish in Luderitz or Walvis Bay, Namibia, & deliver in South Africa. The network is most active after 0500 UTC; most traffic in Afrikaans. (PC)
7790 Huge net in SS 1440 USB heard. (RM)
7811 ZOLK: 1042 CW unid "OUZT de ZOLK QSY 66T48" rptd. (PS2)
7947 Unid, Numbers Station 1018 USB in SS. (EW)
7967 HXMP: 1032 CW unid "QTA QLX MPXH de HXMP" rptd. (PS2)
8605 Unid: 1118 USB tfc in CC dialect. Simplex Network. Can hear noise of engine in background on one of the stns. so evidently M/M. 1122 "BiBi Happy New Year" and then they all went QRT. (RH)
8976 Unid: 1144 LSB tfc in SS, sounds like a bulletin w/M/A. 2nd stn. much weaker.1147 QRT. (RH)
8988 Unid: 1137 USB tfc in SS. Male Ops. Ends queries w/Kapitan. Some overs end w/"cambio". They have rather raspy voices, some w/rather agitated tones. Female voice heard well down in QRN. (RH)
10493 WGY912 1603 USB wkg WGY910 w/comm ck. WGY918 1605 USB wkg WGY912 w/comm ck, WGY912 then calls numerous stations with no joy. WGY912 1616 USB wkg WGY918 w/comm ck QSY F34. WGY910 1700 USB wkg WGY 912...910 is shutting down operations due to high wind warning. They are turning antennas into the wind. 910 will keep one radio on freq for emergencies. LIMA ZERO FOXTROT 1703 USB wkg WGY912 w/comm ck. (MJ)
11099.9 Unid: 1055 USB tfc in JJ dialect as "Maru" mentioned several times. Very raspy voice. "Hai..Hai" Sounds like JJ but endings different. Korea mentioned twice but definitely not KK spoken. (RH)
11270 Unid 1126 USB man reading letters, very poor signal, hrd Juliet Golf Kilo, etc. (EW) [Russian Man Numbers Station -RD]
12168.8 Unid: 1159 LSB tfc in CC dialect. Both males. One op seems to have

second rx running in background w/CW. (RH)
12216 WGY912 1622 USB wkg WGY918 to set up 4-wire (full duplex) circuit. 918 was to use F34 as rx & F50 as tx. It took a while to get the circuit in operation. 912 then had 918 patch a phone call onto the circuit w/mixed results. (MJ)
12885.6 UNID: GULF WEATHER??? 1920 CW w/ID. (AE)
14650 Unid: 0945 LSB tfc in either JJ/KK, QSO starts off with singing then going into speech, unusual QSO. Can copy only one side of QSO. (RH)
14890 Unid: 1024 USB Numbers in unid lang. (EW)
15016 Unid: 0857 USB tfc in UNID Asian language, one male & one young person. Simplex. Could possibly be Indochinese LL. Male op is stronger while pronounced QSB on younger person, cannot tell if male or female. Could be family communicating. Finally QRT 0915. (RH)
15708 WGY 918 1627 USB transmitting above to 912. (MJ)
16230 Unid: 0918 USB telephone call in unid lang. (EW)
16270 Unid: 0916 USB telephone call in unid lang, poss Chinese. (EW)
16282 Unid: 0913 USB telephone call in SS, (EW)
16332 SLHFB [C] 0944 CW Single letter [C] HF beacon. (DW)
16615 Unid USB 0740 greek stn having pp, switched to 16605 at 0746 (AW)
18000 Unid: 1105 USB YL rpts three words, too weak to ID. (EW) [Nancy Adam Susan Numbers station w/1100 sked to BEC -RD]
19631.3 Unid: 0841 CW 5LG's then VRQ VRQ DE ZNN. (EW)
20414.4 Unid: 0735 CW encrypted. (EW)

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(AE) Andrew Everhart, Carmel, In, USA
(AW) Alex Wellner, Sydney, Australia: Kenwood R5000
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(BH2) Bob Hamilton, Long Island, NY, USA: Drake R8
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(CM) Craig MacKinnon, Halifax, NS, Canada: Yaesu FRG-7
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(DH2) Delta Hotel, Kent, England: AOR3000, Icom R71A, IOR7000
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(EC1) E. Cisar (aka 7), Biloxi, MS, USA: Realistic DX390
(ED) Ed Deasy, Charrlottville, Va, USA: Hoka Code 3
(EG) Edward Griffin, S.Francisco, CA, USA: Drake R8, ATS803A, AOR8000, R7100/R1
(EW) Eddy Waters, Collinswood, Australia: NRD 525, R8, Hoka Code 3
(FLF) Fabio Luis Fonseca, Gravatai, RS, Brazil (by mail): Sony 2010
(GD2) Guy Denman, Portsmouth, UK: NRD525, FRG100, Hoka Code 3, PK232
(GS) Georges Schaul, Luxembourg: JRC535DG, R5000, AOR3000A, Hoka Code 3, Wavecomm 4010
(HS) Henk Stelte, Utrecht, Holland
(HW) Hans Wildschut, Zutphen, the Netherlands: Lowe HF225 with 12m wire
(JB) John Burtenshaw, POOLE, Dorset, UK: FRG-100
(JC2) Joseph Cirone, Bayonne, NJ, USA
(JC4) John Charlton, Greymouth, NZ
(JEB) Jason Berri, Torrance, Ca: R-2000, M-1000
(JF) Jos Frielink, Zwolle, Holland: Lowe HF250
(JH) Jeff Haverlah, Houston, Tx, USA: R5000/R7/FROG7/RFB65
(JJ) Jeff Jones, Ca, USA
(JJ2) Jan Janssen, The Netherlands
(JJR) Jim Richards, Auburn Hills, MI, USA: FRG100
(JK) James Kilgallen, Sanlucar de Barrameda, Spain
(JL2) Jim Lane
(JM) Jack Metcalfe, Danville, Ky, USA
(JP) Jim Pogue, Memphis, Tn, USA: R-2000, Sony 2010

(JS2) Joachim Stiller, Gilzum, Germany
(JSM) J.S. McDonald, Port Coquitlam, BC, Canada: R71A, M6000 (by mail)
(KB) Klaus Betke, Northern Germany: Icom R72 & homemade RTTY/FAX decoder
(KB2) Ken Bell, Lunenburg, NS, Canada: JRC525, Hoka Code 3
(KS) Keith Stein, Woodbridge, Va, USA
(LD2) Leif Dehio, Germany
(MD) Mike Dixon, Orlando, Fl, USA: DX-394
(MF) Mark Fine, Remington, Va, USA: Drake R8, AEA PK232MSX
(MF2) Mark Fink, S. Florida, USA: SW8
(MH) Mike Hardester, NC, USA
(MJ) Mike Jacobs, Allentown, Pa, USA: R5000
(MR2) Michiel Rivkin, Pamona, NY, USA: JRC NRD535D, Hoka Code 3
(MS) Michiel Schaay, Doorn, The Netherlands: Yaesu FT767
(PC2) Piet Conradie, Cape Town, South Africa
(PI) Peter Ivakitsch, Toronto, Ont, Canada: Kenwood R5000
(PS) Paul Scalzo, Montreal, PQ, Canada: R2000, M7000 v.7
(PS2) Patrik Stromdahl, Malmoe, Sweden: Icom IC-735
(PT) Peter Thompson, Crewe, Cheshire, UK: Lowe HF225/Universal M-7000
(PVY) Peter Van Yperen, Rotterdam, Holland
(RA) Rick Albright, Merced Ca, USA: Sony 2010, Realistic DX-440
(RB) Rick "RD" Baker, Austintown, Ohio, USA: Icom R71A, Icom R72, M-1000
(RC) Roger Caird, Dublin, Ireland: AOR AR3030, AR3000, HOKA Code 3, PC-HF Fax
(RH) Robin Harwood, West Launceston, Australia: Icom R70, Tono Theta 777 decoder
(RJL) Bob Lewallyn, The Woodlands, Tx, USA (was BL)
(RM) Robert Margolis, Lake Forest, IL, USA
(RR) Rik Rasmussen, Raleigh, NC, USA: Icom R72
(SB) Steve Bottom, Cairns, Australia: FRG7700
(SF) Steve Fisher, SE Ohio, USA
(SS) Stan Scalsky, Leonardtown, Md, USA: Icom R71A, M7000, Code 3
(TK) Takashi Kuroda, Tokyo, Japan: WJ HF-1000/Racal RA67906M R2174(P)URR, M7000/M8000
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(TR) Tom Roach, San Jose, Ca, USA: Watkins-Johnson HF-1000, NRD525
(TT) Tim Tyler, Ypsilanti, Mi, USA: Kenwood R5000, Sony SW55, TS50, AR8000, MVT7100
(WC) William T. Clark, QTH?
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ Vol. 2, No.02 February 1996 ////
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WUN-v02
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If you have problems with this, contact Rick Baker at:
utelistner@msn.com or ae411@yfn.ysu.edu

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN International HQ, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

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From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most quoted utility publication in the world...the WUN Newsletter.

WHAT'S INSIDE:

o Membership News by Mike Wolfson
o International Civil Aero by Tony Orr & Peter Ivakitsch
o Ask WUN! by Colin Goodall
o Digital Review by Ary Boender
o The WUN Military Column by Jim Pogue
o Nautical News by Jim Pogue
o New Products and Reviews by R.D. Baker
o The QSL Report by Martin Barry
o Surfing the Longwaves by George Karayannopoulos
o Utility Round-up by Ary Boender
o The WUN Logs Column by R.D. Baker & Team LOGS

==========

MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

Over the last month the club has received a large number of new members. Since I prepared the January column, 81 people have signed up on the WUN listserver giving us a total of 570 members on that list. For WUNNEWS, we went from 167 members to 181 and WUN-DIGEST went from 30 to 40 members. For awhile, I've been curious to know how many discrete members we had so I created one all inclusive database of everyone's email address. When I removed duplicate addresses, I ended up with 791 discrete entries. There is always the possibility that some members are receiving the lists at different addresses, but this exercise shows that we have around 800 members. We have at least 30 members getting the paper edition and at least 30 to 40 members on various BBS's. These are impressive statistics.

The number of countries represented in WUN has decreased by 1 to 25. I have also been interested in information about how many members we had from each country, so I looked at the addresses of the members on the WUN list. I was not able to identify the country of origin for every address because a fair number of people get on through one of the large international access providers (COMPUSERVE etc.). Of the addresses I could identify, I was able to compile the following list: US 322, Canada 19, UK 59, Netherlands 17,

Australia 17, New Zealand 5, Italy 12, France 1, Norway 3, Belgium 3, Japan 3, Germany 20, Tunisia 1, Taiwan 1, Switzerland 3, Ireland 4, Luxembourg 1, Sweden 8, Portugal 1, Peru 2, South Africa 1, Finland 1, Brazil 3, Great Britain 1, Greece 1. I haven't done the same thing for the other lists, but feel that the same pattern would be found on them as well.

I would like to again thank those of you who have taken the time to respond to the membership survey request. For anyone who has not sent me their information, but wants to here is how to do it. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested.

Here is the survey:
E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

Finally, I will be attending the Winter Shortwave Listener's Festival held in Kulpsville, Pa. this year and have been asked to give a short overview about utility listening and the Worldwide UTE News Club.

That covers things January. Good listening to all. Mike

==========

INTERNATIONAL CIVIL AERO

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Welcome my friends to another edition of International Civil Aero! Thanks to this month's contributors Wim de Mol, Fabio Luis Fonseca, Graham Tanner, and Sir Thompson's Gazelle, we have a great deal of information to pass along this month. Let's get on with it then shall we?

==========

SELCAL CORNER-Vic Gubbins

==========

Hello WUNpersons- welcome to the FEBRUARY SELCAL CORNER and we'll start here this month by solving a few mysteries from last months list (a big thanks to Sir Thompson's Gazelle, Graham Tanner, Wim De Mol, T.M.Himself, DH and Fenton Cheddary for helping with these) before we get on with this months' news:

First of all, we now have those darned USN C20s checked-out:
163691 BKAP
163692 BKCP
165093 BRHM
165094 CHMR
165151 HQJR
165152 HQKR
165153 HQLR
V11 EGDS This is actually a USCG one.
and those December's mysteries we've managed to solve.....
ELAJ ATN 659 L1011 C-FTNC
"Air TRANSAT (TSC) not
"Air Transport (ATN) "
ELGM MEA 2003 A310 PH-AGC
FMKS FDX 29 could be "Jet Express 29" unidentified

* TIE-UP REQUEST CORNER * (If anyone has any selcals that need tie-ups,

send them here)

AE-GJ	TWA 901	B767	N607TW	
AF-BL	AFP 0025A	C130	6801	Portuguese AF
AK-EH	PAF 187	B707	68-19866	Pakistan AF
BC-FS	HC-BSF	A310	not HS-BSF	
BD-AH	"F-Z-Q"	MD80	EC-FZQ	op by CNA
CL-AF	SWR 150	DC10	N600GC	op by SCX
DF-LQ	CFG 134	B767	D-ABUI	
DH-FQ	AAL 142	MD11	N1753	selcal is AH-FQ
DK-HJ	SPP 9915	L1011		op by OOE
DL-AE	AEL 717	L1011	SE-DSD	op by OOE
DL-EH	VASP 774	MD11	PP-SPL	
DR-FJ	KAC 413	A310	9K-ALC	
EG-PS	UAL 972	B757?		
EH-DJ	EHD 36	LR35	N35ED	
EJ-CF	GHA 161	DC10	N151SY	op by SCX
FL-AE	KJC 222	DC10	N525MD	
FL-BQ	DAL 148	B767	N186DN	
GH-CR	FDX 4	MD11	N275WA	op by WOA
GP-EF	GAF 312	C160	51+11	
HJ-AB	AEL 706	DC10	OO-JOT	
HK-DJ	Amerijet 744	B727	N727JH	op by CAA?
HL-EJ	CAA 222	A300	N222KW	
HQ-BP	DAL 162	B767		
HS-GK	AEA 115	B757	EC-GBX	
JK-QR	AAL148	B767	N385AN	
JM-BE	AMT 125	B727		
KS-BM	AIH 937	B767	G-JANM	
LQ-CF	ICE 911	B757	OO-ILI	op by ABB
LQ-HM	KAL 624	A300	HL-7294	

* MYSTERIES OUTSTANDING FOR JANUARY *

ANY help with the following, WUNpersons, will be greatly appreciated.

DH-BC	LDI 983	Sta.Maria/5598	01/14/96
HR-KQ	FUA 104	Shanwick/5598	01/13/96
AC-HL	LM 411	8906/Santa Maria	01/31/96
AD-FP	Argentina 1382	8918/Panama	01/07/96
AL-HJ	LIB 852	6628/NY	02/02/96
BR-KQ	USA 1966	8846/NY	01/06/96
BR-LS	USA 1041	11396/NY	12/27/95
HK-AR	Skyfinder 871	8846/NY	01/06/96
HR-JL	USA 1269	6577/NY	01/06/96
HS-DG	Air Afrique 362	6535/Dakar	02/03/96
HS-FP	TAP 394	6535/Dakar	01/08/96
JS-HP	AEL 791	5598/NY	01/03/96

* NEW SELCALS FOR FEBRUARY*

AD-FM	ELY	B747	4X-AXL	
AM-DR	CTM	C130	F-RAPJ	
BE-LR	JAI	B737	VT-JAG	
BH-GK	RRR	VC10	ZD242	
BM-DH	ICE	B737	TF-FIE	
CG-HK	NAF	KDC10	T-235	
CH-FM	SJM	B747	N742SJ	
CK-FM	AMT	B727	N760AT	
CK-GL	GTI	B747	N516MC	
DL-EG	CKS	DC8	N826BX	
FJ-DK	SCX	DC10	N907WA	
GH-AB	CFC	CC130	130341	
GJ-DS	BAW	B777	G-ZZZE	
HJ-BD	ABD	L1011	TF-ABL	
HL-ER	LDA	RJ10	OE-LRG	
HL-FR	AEA	B757	EC-FTL	
HR-EM	FDX	A310	N422FE	
HS-EP	VIV	B737	EC798	
JK-LM	?	DC8	N3786X	
JL-AQ	CKS	DC8	N801MG	
JM-HR	AMT	B757	N514AT	

JR-CS	SWY	B757	SE-DSL
KS-DQ	SSV	A320	C-FWOQ
KS-DR	SSV	A320	C-FWOR
LM-AB	CKS	B747	N707CK
LR-EG	RIA	L1011	N308GB
LS-AM	Edelweiss	A/L MD83	HB-IKN

And that's your lot! Please help me with this section each month by sending me your lists/updates and queries via Anthony Orrs' e-mail address above (I should be on "the 'Net" myself within the next few months so that should make life easier for me). Next month, I will start a section containing new Biz-Jet selcals for those of you that are that way inclined. So, until then, go get em! And once you've got 'em, send 'em to me! 73s.....Vic

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AIRLINE NEWS-Tony Orr and Peter Ivakitsch
==========
SWISSAIR will commence new ZRH-EWR service effective March 1. Word has it that A310's will ply the new SR104/SR105 flights. PAKISTAN INTERNATIONAL has now switched to the A310 on its JFK-AMS/AMS-JFK services: PK713 AMS-JFK on Mondays departs 1145 and arrives 1400, and the return PK714 dep 2145 and arr 1100+1. PK723 operates AMS-JFK Thursdays departing and arriving at the same time, as does the return PK724 JFK-AMS. I overlooked another airline's Il-62 Trans-atlantic services, those of UKRAINE INTERNATIONAL. 6U flight 103 operates Fridays/Sundays departing Kiev 0815 and arriving JFK 1215, the return trip 6U flight 104 departs JFK 1430 and arrives back in old Kiev at 0650+1. There is also service from ORD to Lvov, 6U flight 106 departs ORD on Thursdays at 1755 arriving Lvov 1155+1. TOWER AIR is now operating flights to Sao Paulo from JFK and MIA:

FF72	GRU-MIA	Thurs/Sat	dep 0030	arr 0630
FF73	MIA-GRU	Tues/Thurs	dep 2215	arr 0820+1
FF60	GRU-MIA	Sundays	dep 2330	arr 0540+1
FF61	MIA-GRU	Saturdays	dep 2315	arr 0920+1
FF60	GRU-JFK	Wed/Fri	dep 2330	arr 0705+1
FF61	JFK-GRU	Tues/Thurs	dep 2130	arr 0920+1

CANADIAN AIRLINES INTERNATIONAL also operates to Sao Paulo from Toronto, CP100 is daily except Mon/Wed departing YYZ 2000 and arr GRU 0900+1. CP101 operates daily except Tues/Thurs departing GRU 2310 and arr YYZ 0629+1 with 767-300ER equipment. NORTHWEST will begin Detroit-Beijing service effective May 1. TWA has applied for JFK-Frankfurt authority, no start-up date has been announced. USAir is hoping to begin a Philadelphia-Munich route and has asked for the route authority. You'll probably be hearing more World flights over the oggin sometime in May as the airline will begin JFK-Belfast, EWR-Belfast, LAX-Belfast-Shannon, LAX-Glasgow, and San Juan-Manchester services. In Pacific news, ASIANA has begun twice-weekly service from SEL-SYD, OZ603 operates Tuesdays SEL-SYD departing 1810 arr 0610+1, OZ601 operates SEL-SYD on Thursdays with the same schedule. Return nonstop's include OZ602 SYD-SEL on Fridays, departing 2115 arriving 0645+1, and OZ604 Cairns-SEL departing CNS 2230 and arriving Seoul 0605+1 on Wednesdays.

AEROLINEAS ARGENTINAS currently operates 747's across the Pacific to Auckland from Rio Gallegos, on Wednesdays/Sundays AR1882 departs 1600 and arrives AKL 1850+1, AR1880 on Fridays departing 0700 and arriving 0950+1. The return segments operate nonstop Auckland-Buenos Aires AR1883 on Mondays/Thursdays departing AKL 2020 and arriving EZE 1600, AR1881 departs AKL at 2105 and arrives EZE 1645 on Saturdays. MALAYSIAN is now operating the A330 into Europe! MH30 flies the Kuala Lumpur-Dubai-Istanbul-Madrid route departing KUL at 2130 and arriving MAD at 0825+1 on Tuesdays/Fridays, the return MH31 departs Madrid at 0945 with intermediate stops in Istanbul, Dubai, then on to Kuala Lumpur departing Dubai at 2235 and arriving Kuala Lumpur at 0930+1 on Wednesdays and Saturdays. Another interesting service from MALAYSIAN sneaks quietly along one of the most southerly routes in the world, namely their MD11 service from Kuala Lumpur to Buenos Aires.
The flights in question operate KUL-JNB-CPT-EZE and KUL-JNB-CPT and return. MH202 operates Wednesdays and Sundays departing Buenos Aires at 2050. The flight arrives Cape Town at 0945+1, then departs JNB at 1400 arriving KUL at

0615+1. MH204 flies the CPT-JNB-KUL route on Saturdays departing JNB 1400 and arriving Kuala Lumpur at 0615+1. MH201 Kuala Lumpur-Johannesburg departs KUL 0040 and arrives JNB 0520 on Wednesdays, and on Sundays the departure time is 0105 and arrival at JNB is at 0545. MH203 operates on Saturdays departing KUL 0105 and arriving JNB at 0545. The continuing MH201 CPT-EZE service departs CPT at 0945 and arrives Buenos Aires at 1430 on Wednesdays, and departs CPT at 1010 arriving EZE 1445 on Saturdays.

Those ultra-longhaul experts SOUTH AFRICAN AIRWAYS (callsign Springbok) operate a number of interesting flights across their own version of an oggin, the Indian Ocean, with the following schedule:

BKK-JNB	SA297	Wednesdays	dep 0130	arr 0735	747-300
BOM-JNB	SA152	Tuesdays	dep 0255	arr 0815	767
BOM-JNB	SA285	Saturdays	dep 1300	arr 1820	767
HKG-JNB	SA287	Saturdays	dep 2300	arr 0545+1	747
PER-JNB	SA281	Tuesdays/Fridays	dep 0050	arr 0540	747
SIN-JNB	SA283	Thursdays/Saturdays	dep 0100	arr 0635	747
SIN-JNB	SA288	Sundays	dep 1425	arr 1910	747
JNB-BKK	SA296	Mondays	dep 1545	arr 0725+1	747-300
JNB-BKK	SA288	Saturdays	dep 1700	arr 0900+1	747
JNB-BOM	SA284	Fridays	dep 2120	arr 0930+1	767
JNB-HKG	SA286	Fridays	dep 1245	arr 0800+1	747
JNB-PER	SA280	Wednesdays/Sundays	dep 1950	arr 1105+1	747
JNB-SIN	SA282	Tuesdays/Thursdays	dep 1930	arr 1135+1	747

Please keep in mind that all the above times are in local time not UTC.

And finally, From Fabio Luis Fonseca comes the following news from Brazil:
LEBANON's MIDDLE EAST AIRLINES (MEA) began service from BEIRUT to BRAZIL via Abidjan, COTE D'IVOIRE on 27 December. ME666 departs Beirut at 1515 UTC Thursdays and arrives SAO PAULO's Guarulhos International (GRU) at 0715 UTC Fridays. ME667 departs GRU 0040 UTC Saturdays with ETA BEY 1715 UTC.

LAUDA ITALY (LDI) fly to RECIFE every Thursday with B767-300ERs and ETA REC is 1700 UTC. Flight routing is Vienna-Milan-Recife and the flight numbers are LDI971 and the return LDI972. AIR EUROPE (Italy) (AEL) operates 767-300ERs Milan-Fortaleza-Salvador on Fridays. TEA SWITZERLAND operates the Zurich-Las Palmas-Recife route with 737-300 or -400 equipment on Mondays and Thursdays.

TRANS-BRASIL is currently wet-leasing an EVERGREEN INTERNATIONAL with the following schedule: TBA950 Saturdays Sao Paulo (GRU)-Manaus-Miami-JFK departing GRU 0400 and arriving Miami 1400. TBA951 Mondays is the return departing JFK 1000 and arriving GRU 0200 UTC. TBA952 GRU-Manaus-JFK departing 0500 arriving 1630 on Tuesdays, and TBA953 the return departing JFK at 1000 and arriving GRU at 2300 on Fridays. TBA954 on Thursdays GRU-Miami-JFK departs Sao Paulo at 0400 and arrives Miami at 1200, the return TBA955 on Wednesdays departs Miami 1230 and arrives GRU 2330 UTC.

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HF TIP OF THE MONTH
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This month's timely DX tip is brought to you once again by the ever intrepid Wim de Mol:
Wim reports that 8909 is a possibility at and around 1500 UTC for regional Indian traffic and ground stations such as Madurai, Trivandrum, Hyderabad, Madras, Bombay and Bangalore being among the stations identified so far.
==========
With that we close yet another edition of International Civil Aero. Thanks to everyone who took the time out to contribute this month, thank you for all the comments and questions, and if you do have anything you'd like to send our way, why not do it today? Next month I'll undertake a survey of current activity heard on the AFI-4 MWARA frequency of 8903 so send in those contributions today! From the entire International Civil Aero Team, we'll see you next month, from Reston and Weston,
73 and good DX!

+*
*+

ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE

****

This new section is here to deal with requests for help and information to and from WUN members. This column is for you to ask questions; to locate others with similar interests (even non-HF like SatCom or VHF aero); to locate or sell equipment; to ask about receiver problems, or to just ask about anything. If you have a question to ask then ask it via this new section.

****
Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.

IF YOU WANT TO REPLY TO AN ADVERT NOTE THE SENDERS ADDRESS AND REPLY DIRECT OR SEND THE ANSWER TO THIS COLUMN.

1. FOLLOW UP TO PREVIOUS NEWSLETTERS
****
The request from John in London for info on those unid digital's has brought forth the following.

FROM: Guy Denman (denman@aladdin.co.uk)
I have been listening for the mystery stations mentioned in the Jan Newsletter, Part 1 page 19 but could not hear any of the frequencies active. But this afternoon, Thursday 1 February at 1400 on 11156 I heard a station with RTTY at 75 Baud 500 Shift, the text is below, does anyone know what it is. Regards Guy

```
MOM MOMODPTTYMOJEX LI DA YAZLIQIX NA LELEKSNAOA PTATKA CECEROVIE
DIODGBVHETXSN: |-0
: }:8{24 ,- 5323('.-5- 0)-5(- :3.34==85- 898?  MOJEX LI DA RAZLIQIX
NA TELEKSNATA PLATKA CENEROVITE DIODI?  OSIGUREN SI, QE SW ZDRAVI
MOM DA POMISLY MOXN LI DA PRZMZRIX S MULTICET DALI IDVA UPRAVLENIE
NA LBPORONA S NEOBHODIMATA POLYRNOST XAZ TI GOVORY NA SAMATA
TELEKSNA PLATKA SEGA OTIVAM DA TI VZEMA IZVODITE MOM AS

SEGA, ZA DA SMENIX KANALITE - B DA STANE A, A A DA STANE B:

TRYBVA V KONFIG.SIS DA SMENIX REDA NA ADRESITE NA TLH-9.SIS PSE AS
M OK?  MTVV

NV FA}LA NV FA}LA NV FA}LA NV FA}LA CQQCCCCC 1. VWV FA}LA
CONFIG.SYS YNR KAGEHTO E TLX-..SYS OWRNI ADRESITE - PWRVO 0208, A
SLED TOVA 0200.  S TOVA SI OBWRNAL KANALITE LOGIQED.  2. 9 PINOVIYT
KUPLUNG E /DO SEGA/: 1 /+/ RX A 2 /-/ RX A 6     TX A 7     TX A

4 /+/ RX B 5 /-/ RX B 82)0  TX B 9     TX B

FFFFFFFFF FRFRTVN OK

ZVTTMICI OK PSE ZRR 300 PSE ZRR 300 PSE ZRR 300 OK?  OK?  OK?  OK?
MOLY?  MOLY?  MOLY?  TUK MI IZLEZE ZRY-TO TI TUK MI IZLEZE ZRY-TO
TI TUK MI IZLEZE ZRY-TO TI SMENI LI SI KONFIG.SISA SMENI LI SI
KONFIG.SISA A SMENI LI SI I KUPLUNGA T.E. SMENI LI SI 6 I 7 SWS 9 I
AMI MINI NA DOR I RABOTI SAMO PO B KANAL AMI MINI NA DOR I RABOTI
SAMO M BNKANAL AMI MINI NA DOR I RABOTI SAMO PWNWL OK?  1 1/3?CL
AMA AZ TI GOVORY SAMO ZA B KANAL QPQXMOWOK TO TMV QOXAKO TI E
IZGORYL 1 CENEROV DIOD NYMA DA IMAX PRIEMANE AKO TI E IZGORYL 1
CENEROV DIOD NYMA DA IMAX PRIEMANE TOVA TI PO-DOBRE OT MEN MOJEX DA
PRECENIX E OK KOKO GB 73/88 SK
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+++++++++++++++++++++++++++
Anybody out there know what this is. It could be encrypted or just a

foreign language.

2. SATELLITE QUESTIONS
****
I had a very nice e-mail from Alfie in Northern Ireland concerning help he requires on the reception of INMARSAT. He presently has a 2 metre steerable dish and wants to add a feedhorn for reception of Inmarsat. Anyone able to tell Alfie (and the rest of us) where to obtain this together with a 1500MHz RF amplifier. Address and telephone number of persons or shops who are likely to have such things with a price guide would be welcomed by Alfie. Possibly, Alfie says, he would like to have a go at building the feedhorn if anyone out there can supply dimensions etc.
Is there anyone else in the UK monitoring INMARSAT either with a dish or using YAGIs? Alfie and I would be interested to know. (Actually anyone in the World doing this would be a help if they could give us details).

Alfie can be contacted direct at: alfie@portrush.demon.co.uk
or of course via this column.

3. NOISE AND THINGS THAT GO BUMP IN THE NIGHT
****
I had the following e-mail from Jeff Williams who, poor chap, seems to be having a bad time - can we help him out of the mess ?

FROM: Jeff Williams <jeffw@mxim.com>
O.K. after having made the heinous sin of posting my questions on the listerver, I respectfully submit them here. (All is forgiven Jeff. Ed)
I am getting a significant amount of harmonic, radiating noise, which when isolated with the use of an a.m. portable radio, turns out to be coming from my electric meter outside along the wall. Unfortunately, this turns out to be 3 ft. from my nightstand where my FRG-8800 resides. I now sub reference a question about the FRG-8800; specifically, how is it perceived out there among UTE listeners ? I love it, but wanna know if it's in the pack, out front, or an overpriced dog....
Back to the scheduled programming: Eventually I will run coax up to a wire antenna of some sort on the roof, thereby probably eliminating most noise from the offending meter, but the fact that the meter is so noisy indicates interference somewhere, and this really should be corrected if at all possible... I had the PGE (our local electric utility) man go do a check, and he claims more noise from my neighbors house. He also says since both of us are on the same xformer (on the ground as we have underground wiring), his noise can be conducted through my wiring and show up at the meter.
The noise dissipates QUICKLY when coming from my meter and doesn't really show up when planting the a.m. radio next to outlets in the house. I got a suggestion from a listervee that if there is looseness between the meter base and the metal conduit leading up to it, that there could possibly be a non-linear junction, leading to radiated noise....
Upon cursory inspection the connection is tight....
So I think I know what my steps I should take are. By the way I have no florescent lights, no touch lamps, no dimmers, and no overhead fans or motors running aside from the electric meter, and no SCRs in use.

1) Turn off my power in the panel inside the garage and see if the noise in the meter goes away. This would isolate the problem to my house.
2) If it doesn't go away, sleuth around my neighbors and find the offending house. If it's the neighbor I think it is, I'll have no problem in bribing the fellow out of using rf-polluting touch lamps, dimmers, etc.
3) Perhaps cover the meter with a conducting metallic enclosure. It was suggested that the wiring of, let's say, chicken wire, would radiate as well, but I suggest that a mesh less than lamda/500 wouldn't do so! Has this approach been tried and found effective by anyone?

It should be noted that I know of no neighbors with neon lights, there are no nearby transmitters of any sort of the communication variety, and I'm not near any major plants (well, Intel is about 1.5 miles away....)

Next topic. I would like to run coax to the roof and connect to a longwire, or perhaps a trapped dipole/inverted vee tuned to popular ute bands...What is a good balun method, and can one set up an antenna tuner to handle this setup, and if so, where might I find plans for one? I have several Miller 365 pF variable (air) caps to use,and would be glad to do so.....Thanks very much for your time... Sincerely, Jeff Williams

Thanks Jeff for your letter; OK WUNNERS can we help ??

4. UNIDENTIFIED RASPING
****
Member John Burtenshaw posted the following, anybody got any clues?
FROM: jburtens@bournemouth.ac.uk
On 11175 I've been hearing a rough, rasping sounding signal which appears every couple of days and stays for about a hour. It sounds like a very bad CW signal but I cannot seem to resolve it. The S-meter on my FRG-100 swings from 1 to 7 when it is received so it must A) be very strong or B) close to Southern England. Anyone got any ideas what it could be.
73 de John G1HOK John Burtenshaw
Postal Address: Talbot Campus, Fern Barrow, POOLE, Dorset, BH12 5BB U.K.
Internet: jburtens@bournemouth.ac.uk Phone:01202 595089 Fax:01202 513293
AX.25: g1hok@gb7bnm.#45.gbr.eu. AMPRnet: g1hok.ampr.org. (44.131.17.82)
CompuServe: 100336.3113@compuserve.com

AND THEN DAVID SENT THIS:-
FROM: David Moisan <dmoisan@shore.net>
I wonder if it's a cousin to the signal I used to hear on 11176 (before the change to 11175): A low tone, then a "staircase" series of *very* low, if not sub-audible, tones, then a beep, then carrier drop.
Dave Moisan, N1KGH moisan@shore.net
86 Essex #204 n1kgh@amsat.org
Salem MA 01970

Answers to us all I should think.....

5. FREQUENCIES WANTED
****
The following was on the WUN list (here is the best place for it).
OK you digital wizards let's be having you.
FROM: Steve Kusterer <spk@ntw.ssg-reston.tandem.com>
Hi all,
I'm just beginning to listen to utility stations. I have a radio (Satellit 700) that doesn't lend itself to 'scanning' stations easily. I have seen numerous lists of utility freqs of various types. Most of these lists are too complete for the beginner. A list of 50-60 freqs of a specific type is overwhelming.
What I would like to request would be for people to send their top 10 (or so) utility stations for the new utility listener. Ideally, I would wind up with a list containing 'the best' freqs of the various types (SAR, AIR, NAVY, etc). I listen from near Washington, D.C., USA, but hopefully that doesn't matter too much.
Thanks... Steve Kusterer kusterer_stephen@tandem.com
Tandem Computers Inc. spk@ntw.ssg-reston.tandem.com

Help needed here for a new listener; send your top 10 list direct or better still send it to me here so everyone can benefit; we could then make up a master list which can be obtained by anyone using ftp or www.

And with that it brings us to the end of another program, let's have your comments/answers/questions and hopefully someone will provide all the info.....

Till next time, Colin.
==========

DIGITAL REVIEW
[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Thanks to Mike Chace, Jan Janssen, Stan Skalsky, Edgar White, Day Watson, Peter and several other WUNnies, I have a long DR for you with lots of military stuff. Enjoy ! Please, note my new e-mail address. -Ary-

Diplo corner

Today we start with a new monthly item, the DIPLO CORNER. Following my request for messages, freqs and info, I received a load of info from Roberto Robba, Mike Chace and Day Watson. The item that I have chosen to start with comes from Day and covers the Norwegian diplo stations. Thanks guys ! Next month we'll cover Bulgaria.

MFA Oslo 2/Feb/96 NORWAY
==========

Transmission modes used:
TWINPLEX 100Bd N F7B-1 -400/-200/+200/+400 [S7/400Hz]
Word Interleaved. Erect

Logged frequencies:
6961.9 9081.9 9274.9 12123.9 13495.9 16073.9 18487.9 19807.9
21893.9 kHz

Reported frequencies:
9179 9327.9 13388 15974 16103.9 16129 16277 16284.9
18445.5 18476.8 19827 20029 21852.8 21859 21892.5 23180.8 kHz
Watch out ! Frequency guides erroneously list Danish diplo as Norwegian diplo. The 'reported freqs' originate from frequency guides and may be incorrect (-Ary-)

Notes on operation: language: Norwegian // Single freq ops. // Uses online encryption with p/l header

Reported selcals for parent MFA/Embassies:

Selcal	Location	Selcal	Location
KCKZ		KDMT	MFA Oslo
KFCB	Dhaka	KFCD	Windhoek
KFCI	Gaberone	KFCT	MFA Oslo
KFKR		KFKT	MFA Oslo?
KFKU	Tel Aviv	KFME	Dar es Salaam
KFMI	Lagos	KFMO	Maputo
KFMT	Dakar	KFPD	
KFPE		KFPR	Bucharest
KFPU	Abidjan	KFPZ	collective call from MFA ???
KFQB		KFQD	Ankara?
KFQE	Bangkok	KFQI	Lusaka
KFQR		KFYO	Kiev?
	2/Jan/93		NORWAY

Dictionary:
---

dato	date
haster	urgent
i	in
Noramb	Norwegian ambassador
Noreg	MFA Oslo
Norsk Ambassade	Norwegian embassy
pressekontoret	press office
prioritet	priority
utenriksdepartement	MFA Olso
dagens	todays

Sample message formats:

Example #1 - Norwegian p/l message to the Norwegian embassy in Beirut.

```
 ccccc
 ambassaden i beirut, p.t m damaskus 16.12.92

  ikke ville finne sted foer langt inn i 1995.  men
 konsekvensene av ''rydde-jobben'' under ef-toppmoetet i
 helgen, gjoer at tidsplanen kan bli fremskyndet.  dette er i
 alle fall en hypotese begge ef-~r~anisasjonene naa innretter
 seg etter.

etc etc etc etc
```

Example #2 - Norwegian p/l diplo press summary

```
 det kgl. utenriksdepartement, oslo
 pressekontoret

        t e l e x n y t t  nr. 243/92  oew/-

 dato:     15. desember 1992

 f o r l i k e t:  ost og melk billigere  (aftenposten/ntb)
 pris paa melk og ost blir lavere.  det er klart etter at
 arbeiderpartiet og sentrumspartiene kom til enighet sent i
 gaar kveld.  dermed er krisepakken for naeringslivet sikret
 flertall i stortinget.  arbeidsgiveravgiften blir redusert med
 2,4 prosent eller ca. fem milliarder kroner.  den blir dekket
 inn av en momsoekning paa 2 prosent.  sentrumspartiene har
 faatt en garanti om at det i merverdiavgiftsloven lovfestes en
 momskompensasjon for melk og ost, slik at den reelle
 avgiftssatsen etter fradrag av kompensasjonen tilsvarer 15
 prosent.  i forliket er de tre partiene blitt enige om aa
 frita kraftkrevende i~~ustri, treforedling og
 vek~thveksthusnaeringen for el-avgift, slik regjeringen foreslo.  de
 tre partiene som ikke er med paa aarets budsje~~for~ik, hoeyre
```

Example #3 - Chatty p/l calls

Callup procedure in Sitor A. Selcal KFQE is the embassy in Bangkok.

```
 kfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkf
 kfqeqekfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkfqeqekfkf

 hallo i bangkok boerge her med dagens news noe andre veien?
 (hello in Bangkok. Starting (here) with todays news and some other issues)

 +?fint her komm~er sakene ha en fin morgen naar dere kommer paa~ jobb
 (Fine. Here it comes (sakene=things/issues). Have a nice morning when
  you arrive on your work (or just "have a nice day")
```

Comms in Bosnia

All parties seem to use Pactor for their communications. Here some characteristics of the various nets.

- o The maximum speed used is 200bd instead of the 'normal' 300bd.
- o Active freqs are between 4000 and 5000 kHz by daylight and between 2800 and 4000 kHz at night. There are no fixed freqs.
- o All frequencies end with .7 or .8 (eg 3456.7 or 6543.8)
- o 7Plus is often used.
- o The nets have a control unit who runs a Pactor-BBS and a couple of other stations who use this BBS to retrieve or send files to each other.
- o The callup is standard procedure: ABCD de EFGH etc.
- o Callsigns consist of 4 or 5 characters of which max. 2 of those

characters are digits, but only in 5 character callsigns.
eg: AL7D, A3LL, AGH0 or C7HGO, M0KL4, O88BN

o Needless to say that there are also voice, RTTY and even some Packet transmissions.

o Lots of Pactor stations use on-line encryption after a string of 4 hexadecimal characters and 'XI'.

Digital Round-up
---

o 300bd Packet
There is an mystery net from N.Africa (possibly terrorists) on 14576.7 kHz with an alternative channel when conditions aren't good, on 13576.7 kHz. Addresses used are now 701 and 761 (761 usually sends). They appear to have stopped using 7Plus coding and are now sending stuff to a bog standard Kantronics TNC-based BBS with subjects always headed "SINGLE LINE ENCRYPTED". They were copied messing up the frequency the other day, and they came up on USB voice a few hundred Hz up.

o Several WUNnies copied this unid station on 6821 kHz with 75bd/850 Baudot transmissions. Unid ? Not really, it's the Turkish Navy in Ankara. Their Route Indicator is RTBDJ. This is the complete message:
vzczc
tbdj
ryryryryryryryryryry
ryryryryryryryryryryry
ryryryryryryryryryryry
1 2 3 4 5 6 7 8 9 0
test test test test
bt
nnnn

o Military stations. The number of military stations from Eastern Europe is increasing lately. Here a few examples:

3017.7	50Bd RTTY 375Hz shift: KVNX transmitting from Bulgary
3321.65	50Bd RTTY 243Hz shift: 9RTD transmitting from the Czech Rep. (also on 3370.5, 3390.8, 3393.3 kHz)
3312.6	50Bd RTTY 254Hz shift: 9RTS transmitting from the Czech Rep.
4989	LSB: Polish Army, letter groups.
5046	LSB: "TAMBURA-20" Polish Army, letter & number groups
5113.9	50 Bd RTTY 300Hz shift: AQ65 Polish Army Brest.
5430	50Bd RTTY 491Hz shift: EUH-20 transmitting from Lowice Poland.
5797	50Bd RTTY 850Hz shift: CM3L Bulgarian Army net.

IRC or UNHCR in Chechenya transmitted this message. Heavy QRM garbled it.

~~~ ~~ theg~~were~explosions in severa;~~n~other places~l~cs~d~~ ~ around
townru but no~o~y~ne~ms to locate~the exact places ..0~we ll ~heck....
-~msf. was f~~in~blocked at the cp... no clear~~reason..
no~internal securitri~s~~ay-problems
b.vedi~o~~~~~/~ ~little fighting around verratoy22/1 ~~mbim~~ar~~~d verratoy~
an~~tsa ve~.~~~:=~8~.8&' bo~b ha~~~yoy
25/2 ~~~~~~~h~~~~~j elistanger
2~/1~~~~~~~,& tsa~ved.bridge~
the~road to market~ is open again.
part of the populatio of ~~f~ comming back.

o Bruno Haineault announced on WUN a test of the Clover-2000 system which Globe Wireless intends to use in the near future. Here is some info about the system.

The two stations are us (DATRON WORLD COMMUNICATIONS INC., Escondido California, Grid location: DM13kc) and HAL communications, Urbana, Ill).
For your logs, here is the info on our station:

Callsign	: KA2XZD (yes, it looks like a "ham" call, but it is not)
DATRON location	: Escondido, California [DM13kc]
Transceiver	: TW7000 @ 100 W PEP
Frequency	: 11.0776 MHz USB
Antenna	: SABRE 16-element LPDA (6.2-30 MHz) @ 65' pointed 62 degr.
~~~

```
  Modem           : HAL CLOVER-2000 "Beta" (highly modified PCI-4000/M)
  Network software: DTS 3.0 "Beta" (from EURAF)
  Opr mode        : CLOVER-2000 (8-tone both phase & amplitude modulated
                  : within 2KHz, FRACTAL data compression. Max bit-rate is
                  : 3000 bps).
  Possible modes  : BPSM, QPSM, 8PSM, 8P2A, 16P4A with "auto-throttling"
                    (adaptable speed & format... we were mostly alternating
                    between BPSM, QPSM, 8PSM and 8P2A... a few bursts at
                    16P4A)
```

o SOUD. Edgar White copied SOUD when they messed up:
  14724.5 clg BAR: SOUD link 00116 1515 Baudot 75/500 Tfc 3/210
  10422.3 clg BAR: SOUD link 00116 1524 Baudot 75/500 Tfc 3/210
  This link id, frequency and schedule is normally used for calling BPA.
  Now BAR was called instead of BPA.
  He also copied a sked for SPK (link id 00168)
  QWK QDG FM 14/01 TO NEXT QWK
  FM 00.00 TO 12.00 QSW 9144/7884/13451
  FM 12.00 TO 24.00 QSW 19827/16218/13451

o French Prefectures have been noted in Sitor A/B on 5164.4 kHz.

o British military
  A while ago Peter posted a logging of British military VFT sending airfield information and notams in ARQ-M2 on 4501 and other freqs. The airfield info was usually interspersed with "de RUD", although it was also logged with id "de LIN". It was suggested that RUD might be Rudloe Manor, a military comms centre. "The Royal Air Force - A Pocket Guide" lists 3 RAF comms centres; Boddington, Lingholm and Rudloe Manor. So it looks like LIN is Lingholm. Keep an eye open for BOD now !

Routing Indicators..... again.....

It appears that the routing indicator stuff intrigues a lotta people. Most of the ''things to know'' appeared already in previous columns except for the AIGs and priority codes. So here we go:

An AIG is an Address Indicator Group who represents a fixed number of addresses and is used to send a message to more then 10 units. This looks like this: RFXCG AIG 153. The system knows which units are predefined in group 153 and will direct the message directly to the addressees. Sometimes the recipient of the message is mentioned with its SIC (Service Identification Code). In the following example SIC 'SVC' is used. SVC means 'service' and is the code of the ComCen (communications center) and is used for messages between two ComCens.

Finally the priority codes for the delivery of a message:
   R = Routine, delivery within 12 hours
   P = Urgent, delivery within 6 hours
   O = Directly, delivery within 2 hours
   Z = Flash, delivery within 1 hour
   No code = delivery within 24 hours

```
      Example:
      OO RFFVAY
      DE RFFBBYZ
      291010 Z FEB 1996
      SIC SVC
```

Irish military stations

During the past year, I reported several times about the Irish military stations. Several WUNnies monitored those stations intensively and it is now time for a major update. I'd like to thank all of them for their contributions. Additions and comments are most welcome.

Callsign(s) / Selcal(s) / Station(s)

0				Army HQ
0A	PT0A		XSFC	Navy HQ, Natl RNW Coord., MRCC Shannon, Valentia Radio, Dept. of Defense
12			XVVM	
13	PT13		CVVA	
14	PT14		CVVI	
16	PT16	EIYS	CVVO	P31 Eithne
20	PT20			Probably a port northward
21	PT21	QE	XVQV	Probably a port facility
24	PT24		CVVZ	
26	PT26		CVVO	Vessel of detachment 8 (also s/c CVVZ, CVVI)
32	PT32	S32	XVVX	Vessel of detachment 1 (also s/c CVVE, CVVZ, CVVD)
35	PT35	EIYV	CVVD	P20 Deirdre
36			XVVP	
37				Irish UNIFIL battalion in Naqoura, Lebanon
37A				Dublin
44	PT44		XVQV	Weather office related
46	PT46		CVVI	Vessel
47	PT47			
48	PT48		CVXT	Vessel (also s/c CVVI, CVVD)
54	PT54		CVVT	Vessel of detachment 1 (also s/c XVVX)
55	PT55			
57	PT57		CVVR	
58	PT58	CVVK,	XVVK	
75	PT75		CVVI	Vessel, operates out of Dublin
78	PT78		CVVO	Vessel
86	PT86		CVVR	Vessel
87	PT87		CVVE	Vessel (also s/c CVVZ)
89	PT89		CVVO	Vessel
97	PT97		CVVZ	Vessel (also weather related)
99	PT99		CVVO	Vessel
C252				Air Corps Casa 235 ac for marine surveillance
C253				Air Corps Casa 235 ac for marine surveillance
WQ	PT-WQ		XSFM	Bantry Radio

Other, so far unlinked, callsigns and selcals: 3, 11, 25, 27, 42, 51, 56, 60, 66, 67, 69, 71, 76, 80, 81, 90, 93, 98, M65, CKJK, CVVB, CVVU, XVVQ, CVVP.

The patrol vessels and the corvette share selcals. Three of these vessels typically form a detachment from Monday to Friday and are then relieved by a new group of three ships. So far it seems that selcals CVVZ, CVVI and CVVO are used by vessel PT26, part of detachment 8 and CVVO, CVVZ and XVVX are used by vessel PT32, part of detachment 1. Selcals XVVX, CVVT and CVVD are used by vessel PT54, part of detachment 1.

Message origins and abbreviations

75924 DFBH EI	Army HQ Cork
91444 CAFO EI	Government Services Communications Department Dublin
33128 CAFO EI	same
ACTU	Acting commander, task unit
AER RIANTA	MRCC Shannon
COL CKD	Commanding Official Checked
COMCEN CURRAGH	Communications Center, Curragh
COMCEN EAST	Communications Center East, Shannon
COMCEN WEST	Communications Center West
COMCEN SOUTH	Communications Center South, Haulbowline
COMCEN CTC	Communications Centre CTC
DFHQ	Duty Office of the Defense HQ in Dublin
DIG	Delivery Indicator Group
DKD	?
FLO	Administration matters
HGS	Inmarsat reference
HLG	?

JLT	?
NCC	?
NPT	?
PAO-3	Public Affairs Officer, detachment 3 ?
PMS	Personnel matters
SJH	Fish reports and student related
SOO	Irish Navy Operations
SPJ	?
SUNRAY	Commanding officer
TFE	Personnel bureau
UDJ	Fish reports
URQ	Operations related
VHD	Operations related
WSA	Weather System Analyst at PT44 ?
YS	Crew member DH245

Ireland has various transmitter sites who may be used by the military as well. There is an aerial farm at Newmarket on Fergus, which is used by the government, Shanwick aircontrol and probably also by Shannon Air. Another site is at Ballygreen, which is used by Shanwick for the HF voice comms for the North Atlantic tracks. Valentia and Malin Head coast stations have HF capabilities. The other coast stations are remotely controlled and have only VHF transmitters. XSFM Bantry Radio is often called, so there must be something there I guess, maybe a relay circuit for HF. How widespread the military HF network is, is unclear. The Dept of Defense has probably a network of their own and although the Navy / Fishery Dept, Army / Air Corps don't share frequencies there are no duplicate callsigns which suggests that the Dept of Defense, as a whole, issues the callsigns to the various elements. One thing is clear though; the Dublin site is used by all military services, Navy, Army, Air Corps and also the Fishery Dept.
The Dept of Defense HQ and several army barracks in Dublin have HF dipole aerials and may be responsible for some of the transmissions. The MRCC (Marine Rescue Coordination Center) is reported to have HF facilities in Dublin as well. The Dept of External Affairs is reported to have RTTY comms with the Irish embassies around the globe. There is an impressive horizontal beam antenna on top of their office in Dublin. MRCC also uses the same facilities as Shanwick. The ITU lists HF stations in Cork as well; most probably a navy site.

The ITU allocated selcal block 1980-1989 to the Irish coastal stations which corresponds with resp. XSFV, XSFX, XSFQ, XSFK, XSFM, XSFP, XSFC, XSFY, XSFF, XSFS. Here is a list of the coastal stations.

- o Malin Head Radio (EJM)
  - Belmullet Radio
  - Clifden Radio
  - Dublin Radio (EIJ)
  - Glen Head Radio
- o Valentia Radio (EJK, selcal XSFC)
  - Bantry Radio (selcal XSFM)
  - Cork Radio
  - Mine Head Radio
  - Rosslare Radio
  - Shannon Radio

Frequency	/ mode(s)	/ station(s)
2461.5 (F5)	SITOR	Navy
2851.5	SITOR	Navy
3201.5	SITOR	Navy
3451.5 (F1)	SITOR	Navy
4601.5 (F2)	SITOR	Navy
4751.5	SITOR	Navy
4993.5	USB	Army
5690.0	USB	Air Corps + Navy
5708.0	USB	Air Corps + Navy
6901.5	SITOR	Navy
6974.3	USB	Army

```
 7701.5 (F0) SITOR      DOD ? Nx for 'Irish troops serving overseas'
13506.5      SITOR      Navy
15912.0      USB        Army, Msgs to Irish UNIFIL battalion Naqoura
18770.0      USB        Army, Msgs to Irish UNIFIL battalion Naqoura
19770.0      USB+SITOR  Army, Msgs to Irish UNIFIL battalion Naqoura
```

This is part of a recently copied message in which many frequencies are mentioned. Not all of them are active though.

```
1  3244.5  3246.0   1  7800.0  7700.0   1 11408.5  12067.6
2  3830.0  3246.0   2  7714.0  7711.0   2 11405.5  12067.6
3  5608.5  5794.0   3  7364.4  7711.0   3  9272     9113.
4 15981.  15724.5
5  5785.5  5788.5   5  9272.0  9113.0
6  ~334.2  5788.5   6  9275.0  91~6.0
to~~~ce~~~~this message again make a new arq contact.
please remember your  s t a t i o n  i d e n t  after nnnn"
```

Major Irish military establishments

This is a summary of the major Irish military facilities from which transmissions may originate. Some of them have HF dipole aerials.

o Department of Defence HQ, Dublin 7

o Army Barracks:
  Cathal Brugha Barracks, Dublin 6 (also Navy)
  Gormanstown Camp, Co.Meath (also Air Corps)
  Kilbride Camp, Co.Wicklow
  Curragh Training Camp, Co.Kildare, made up of the following barracks:
    Clarke, McDonagh, Connolly, Plunkett, McDermott and Pearse Barracks
  Dun an Daibisigh, Whitegate, Co.Cork (Dun' Castle)
  Finner Camp, Bundoran, Co.Donegal (also Air Corps)
  Fitzgerald Camp, Fermoy, Co.Cork
  Fort Berehaven, Bere Island, Co.Cork
  Waterford Military Barracks, Co.Waterford (also Navy)

o Air Corps:
  Baldonnel Aerodrome, Co. Dublin.
  Gormanstown Field, Co. Meath (also Army)
  Finner Camp, Co. Donegal (also Army)

o Navy:
  Haulbowline Naval Base, Cobh, Co.Cork
  Waterford Military Barracks (also Army)

o UN / NATO / WEU detachments
  UNIFIL Naqoural Lebanon
  UNFICYP, Cyprus
  UNIKOM
  UNOSOM, Somalia
  UNPROFOR (now IFOR), Bosnia
  MINURSO, Morocco
  OSGAP
  WEU Monitor Mission, Bosnia
  WEU Task Force Zagreb, Croatia
  CSCE Mission
  ONUSAL, El Salvador

o Fleet:

P20	Deirdre	(EIYV)	Patrol vessel
P21	Emer	(EIYX)	Patrol vessel
P22	Aoife	(EIYM)	Patrol vessel
P23	Aisling	(EIYP)	Patrol vessel
P31	Eithne	(EIYS)	Corvette, heli SA365F Dauphin 2
P41	Orla	(EIYQ)	Patrol vessel
P42	Ciara	(EIYT)	Patrol vessel

Tailte	(EIYR)	Patrol vessel
Seabhac		Tug
Fainleog	(MBBZ 2)	Passenger craft
David F.	(GSYE)	Passenger craft
Fiachdubh		Passenger craft
Nancy Bet	(EI2328)	Training yacht
Creidne	(EIJK)	Training yacht
Gray Seal	(EIGW)	Lighthouse tender
S. Nessan	(EI2458)	Pilot boat
Shandon	(EI2459)	Tug
Granuaile	(EICG)	Lighthouse tender
Manuel Plana		Escort vessel

Sample messages:

Two of the messages have been edited because of their length. The first message is a fisheries report, the second is an encrypted daily routine message, followed by a newsreel for the Irish troops overseas.

The fisheries message is one of many that you can copy when you are monitoring the Irish Navy.
A few remarks: Note the 'SO' (source) column. This column represents the sources of the reports. The funny part is that you can read in this column who the current detachment are: vessels P21, P31 and P41 according to this message. Who the other sources are is a still mystery, although there are some theories. Satellite observation posts is one of them, radar posts is another. The most logical theory is -imho- that the fishing vessels report their position to (civil) coast stations like Valentia Radio, Malin Head Radio and Dublin Radio and that those stations are in fact the sources 9, 10, 50, 55 and 58 in this column. It's just an uneducated guess though. The activity (ACT) column shows that activity code 101 is reported by all the patrol vessels and that there are only two '101' reports from the others. Also the position reports from the patrol vessels are more accurate then from the other reporters and finally, all the funny sources have the Licence Period (L-P) filled in, while only one of the patrol vessels has this info.

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NAVAL SUPERVISORY CENTRE - DAILY LOG
PREC-ACTION  PREC-INFO    DATE-TIME-MONTH-YEAR    SECURITY CLASS
    R             R       301600A SEP94           UNCLAS
FROM       JLT            DELIVERY INDICATOR
TO(ACTION) 78,46,89       SOO OPS
TO(INFO)   DKD
DTG         LAT      LONG    IC REGPORTNO   NA SO   ACT B L-P
29 08:40A   5154.3   1029.6  7J T-50        IR P31  101 N  -----
29 09:45A   5152.4   1034.96 7J T-114       IR P31  101 N  -----
29 09:47A   5155.13  1035.13 7J T-42        IR P31  101 N  -----
29 10:03A   5210.56  1057.29 7J CC-115960   FR P31  101 N  -----
29 10:04A   5210.4   1054.11 7J CC-291634   FR P31  101 N  -----
29 10:09A   5216.28  1058.51 7J T-116       IR P31  101 N  -----
29 10:30A   5202.75  1135.3  7J SO-643      IR P31  101 N  -----
29 11:45A   4810      800    7H VI-5-7842   SP 50   133 N  01/10-16/10
29 13:47A   5103.9    847.4  7G S-218       IR P21  101 Y  -----
29 14:18A   5345     1205    7C VI-5-8127   SP 9    138 N  18/09-28/09
29 14:20A   5220     1440    7K GI-4-1770   SP 9    107 N  30/09-10/10
29 15:40A   5122.88  1227.55 7K D-269       IR P31  101 N  -----
29 15:51A   5110.2    813.6  7G CC-683671   FR P21  101 N  -----
29 15:55A   5121.94  1124.51 7J G-172       IR P31  101 N  -----
29 16:04A   5111.78  1106.55 7J D-550       IR P31  101 N  -----
29 16:15A   5117.58  1053.58 7J D-637       SI P31  101 N  -----
29 16:45A   5120.6    804.6  7G LO-686897   FR P21  101 Y  -----
29 17:00A   5208     1143    7J PZ-723      SU P41  101 N  -----
29 18:20A   5222.1   1107.1  7J CC-291634   FR P41  101 N  -----
29 18:55A   5132.1   1042.2  7J SO-635      IR P31  101 N  -----
29 19:13A   5134.1   1036.4  7J FE-1-1852   SP P31  131 N  01/10-15/10
29 23:47A   5550     1420    6B VI-5-8747   SP 10   138 N  20/09-28/00
30 00:55A   5150     1350    7K VI-5-8487   SP 9    101 N  30/09-30/09
30 01:43A   4900     1103    7J CO-2-2881   SP 58   107 N  30/09-14/10
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30	04:09A	5700	1510	6B	SS-2-1882	SP	55	101 N	27/09-20/10
30	06:43A	5020	930	7J	VI-5-9055	SP	9	138 N	18/09-28/09
30	07:00A	5828	829	6A	SS-1-2257	SP	10	107 N	19/09-14/10
30	07:12A	5350	1240	7C	GI-4-1839	SP	9	138 N	20/09-29/09
30	07:23A	5340	1410	7C	GI-4-1878	SP	9	138 N	20/09-29/09
30	07:30A	5220	1445	7K	FE-3-1955	SP	55	107 N	30/09-11/10
30	08:00A	5801	930	6A	BI-4-210	SP	10	138 N	03/09-02/10
30	09:21A	4825	933	7J	VI-5-9352	SP	9	129 N	01/10-10/10
30	10:18A	4910	1210	7K	VILL-1-4670	SP	9	129 N	01/10-15/10
30	10:41A	5121	1408	7K	ST-2-1425	SP	9	107 N	23/09-05/10
30	12:45A	4815	905	7J	FE-4-3055	SP	9	129 N	01/10-12/10
30	13:27A	4740	930	8D	VI-5-8611	SP	9	138 N	17/09-30/09
30	13:37A	5740	1510	6B	CO-2-3541	SP	9	138 N	22/09-03/19
29	10:28A	5151.5	1052.6	7J	W-577	IR	P31	101 N	-----
29	10:40A	5150.4	1054.9	7J	T-73	IR	P31	101 Y	-----

IC=ICES NA=NATIONALITY SO=SOURCE ACT=ACTIVITY B=BOARDED L-P=LICENCE PERIOD

DE 78 ZBO P INT QRV K+?
DE 13 RGR GH KK+?
HG
PRIORITY
PRIORITY 301635 A SEPT 94
001 XKREJ BSEPB FHNET XTYHX SXKXK EWBSA XFPAR TRBXK JKRYH YEYEP
002 XNWNJ FHEHP CAYES EWKRY PYPCC AFBEB NCAXR JBCKP SKTAB EXFBW
003 AWECT HJFCF RACSC HETEB RKAFT WNWKB HAPEK FKNYY JHBPS TJNXA
<clip clip clip>
018 KEWBS AWRJA AKJBX KJKRY HYEYB NNNN
INT QSL PSE ALSO THAT IS FOR QSP TO A/C CALL ME BACK WITH QSP TIME PSE K+?
QSL AR

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      senior irish offices      unficyp.
      senior irish officer      unikom.
      senior irish officer      ~nosom 2
      senior irish officer    unprofor.
      senior irish officer    minurso.
      senior irish officer    osgap
      senior irish officer     ~eu monitor mission.
      senior irish officer    eu task force zagreb, croatia
      senior                  csce mission ~ge~r~i~
~   ~~)~~-~~~o~ b     unny, fps/fod/~~~(9/, (room s 2290f)
     capt ging     goal, nairobi, kenya
     col. o'shea    apso, c/o onusal, el salvador
     commcen     naval base, haulbowline, co cork
     aer rianta     shannon, co. clare, ireland.

info d.ops  ~       d.f.h.q. dublin
bt
unclas

   news digest for irish troops serving overseas
   compiled by duty off. dfhq, dublin 09 oct 94

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ar  qsl  tks   whats the weather like at home
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That's all folks. Ciao !

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Jim Pogue, editor (kh2ar@aol.com)
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Memphis, Tn 38173-0888, USA

Kind of a short column this month - been very busy at work. Here goes:
FRENCH MILITARY: New Member Jacques shares the following with us: Hello! My name is Jacques and I am a new member of WUN. I live in the west of France and my main interests are military aircraft monitoring and aviation in general. I have been doing this for quite a while now, and I think WUN is the best way to keep in touch and up to date.

I have some info about the French HF military net "Circus", and a comprehensive list of designators/frequencies for the "Mystic Star" system, many never published before.

A) Circus :
Circus vert (also: Circus Tango):Paris/Villacoublay
Circus blanc: Bangui (Centrafrique)
Circus bleu: La Reunion
Circus citron: Cayenne (Guyana)
Circus fauve: Fort de France
Circus lilas: Libreville (Gabon)
Circus orange: Dakar (Senegal)
Circus tilleul: N'djamena (Chad)
Frequencies:

6712	USB	"Marjolaine 2"
8972	USB	"Racontar 1"
8992	USB	"Vinaigrette 3"
13236	USB	"Raphael"
18010	USB	"Citadelle 1"
23254	USB	"Verite 3"
?	USB	"Reconfort 1"
?	USB	"Reconfort 3" (in the 15Mhz range?)
143.8	AM	"Canasta" in VHF, relayed all over France

B) Mystic Star listing
All have been monitored from here since 1994
5 6830, 33 13247, 64 11214, 84 13205.5, 89 13204, 90 11460, 94 9017, 98 14585, 99 13247, 102 11118, 117 6993, 146 9027, 184 13878, 202 13..., 211 11056, 236 15041, 251 13217.

Thanks for the great info, and we look forward to your continued participation in WUN.

FRENCH AVIATION: What the "Longbow" is for the Apache attack-helicopter is the "OSITIS" system for the Tigre-attack helicopter. This, called after an Egyptian-god, mastvizer by Aerospatioal consists of an infrared and a "normal" TV-camera, and a laser distance calculator. It can find and identify targets within 5000 meters. For the first series of trials the Panther helicopter will be used as platform for the system. Later this year it will be fitted in the Tigre (TI1) prototype for further testing. Also the weapon systems for the Tigre are being developed, the recently held test with the TRIGAT long-range anti-tank missile proved to be successful. The Trigat "killed" a target at 3.5 Km's.NNS925. Navy squadrons move from Barbers Point to Kaneohe Bay

NETHERLANDS ARMS UPDATE: Hollandse Signaalapparaten in the Netherlands developed "Goal-keeper" system proved its superiority over its opponents. Recently, South-Korea doubled its order to 8 systems to be placed on their (still under construction) KDX torpedo-boats. This autonome, fully-automated last defence system against aircraft and missiles (e.g. Exorcet) will be placed in pairs on the ships. "Drakon", a similar system build by Mauser (Germany) is (still) no serious competitor in this market. The electronic firing system of the Drakon has still to be developed. Also the German NAVY is not likely to buy the system or finance the further development of the Drakon-system.

POLISH AVIATION: Good friend Ary Boender forwards this from Jan Terveer in the Netherlands. Ary says to please also mention as source 'Leger-

koerier' Ten years after its first flight the "Iryda" Polish jet-trainer still does not live up to it's expectation. According to the Polish ministry of Defence, speed, armament and navigation, attack-systems are working insufficiently. Also the production-level at the factory in Mielec is very low. So far only 7 prototypes and 6 production-models have been delivered to the Polish Air Force. This is the reason why the Polish MOD is interested in the Alfa-jet of which Germany can supply 40 aircraft from its stocks. These second-hand Alfa's only cost 1/3rd of an "home made" Iryda.

U.S. ARMS MANUFACTURING: The AGM-130 Missile from Rockwell, even now a dangerous opponent, is still being developed. The AGM-130 is a "stand-off" missile that utilizes GPS and inertial navigation systems to find its target independently. Recently Rockwell has added an improved "imaging Infrared Seeker" to the missile. Tests, where a F15-E from the USAF fired an improved AGM-130 from 2000Ft where successful.

U.S. ARMY CORPS OF ENGINEERS: Rick Albright shares the following info with us. The U.S. Army C.O.E. dredge fleet will continue to operate through 1996, under provisions of the recently passed Energy and Water Appropriations Bill. However, private dredging interests and some members of Congress are still pushing for complete elimination of the public fleet. (The Philadelphia-based dredge McFarland, which has not been overhauled since the late '60s, will be laid up and replaced by private dredges if anything beyond normal repair is needed!).
Both Pacific Coast C.O.E. dredges will spend time in drydock this winter. Essayons was to be in during January and Yaquina during this month, both for about three weeks.

U.S. MARINE CORPS: The U.S. Marine Corps MARS has opened a Web page. The URL is: http://pages.prodigy.com/PA/mars/MARS.html

U.S. NAVY: PEARL HARBOR, Hawaii (NNS) -- The Navy has decided to relocate three squadrons of P-3C Orion aircraft and associated personnel from Naval Air Station (NAS) Barbers Point, Hawaii, to Marine Corps Base Hawaii (MCBH), Kaneohe Bay, by 1999. This move follows the 1993 Base Realignment and Closure (BRAC) committee's decision to close NAS Barbers Point, which also called for moving one squadron of SH-60 Seahawk helicopters from Barbers Point to Kaneohe.

Patrol squadrons 4, 9 and 47, and Anti-Submarine Warfare Helicopter Squadron 37 are scheduled to move. Along with these squadrons, some additional commands will move from NAS Barbers Point to MCBH Kaneohe, including Commander, Patrol Wings Pacific.

There will be a total of 32 P-3C Orion aircraft and 10 SH-60 Seahawk helicopters making the move. By keeping the squadrons and 2,200 associated military personnel and civilian employees in Hawaii, the local economy will retain an estimated $84 million in annual revenue from salaries plus goods and services purchased by the Navy.

The decision to move three patrol squadrons to MCBH Kaneohe Bay allows the Navy to keep the aircraft strategically located in the mid-Pacific, where they train regularly with Hawaii-based surface ships and submarines, and make regular deployments to the Western Pacific, Indian Ocean and Arabian Gulf regions. The decision also uses the capacity of MCBH Kaneohe Bay to its best advantage.

Before the 1993 BRAC decision, six patrol squadrons were based at NAS Barbers Point. Two squadrons have since decommissioned as part of the Navy's force reductions, and a third has moved to NAS Whidbey Island, Wash. With the three remaining P-3C squadrons moving to MCBH Kaneohe, the Pacific Fleet's six P-3C squadrons will be divided evenly between Kaneohe Bay and Whidbey Island when NAS Barbers Point closes in 1999.

NORFOLK (NNS) -- The Sailors and Marines of the USS George Washington (CVN 73) Battle Group and the USS Guam (LPH 9) Amphibious Ready Group (ARG), will depart their homeports and bases on Jan. 26 for a regularly scheduled deployment.

The George Washington Battle Group, commanded by RADM Henry C. Giffin III, Commander, Cruiser Destroyer Group 2, will relieve the USS America (CV 66) Battle Group, which deployed last August.

The Guam ARG, commanded by CAPT William D. Young, Commander, Amphibious Squadron 2, will relieve the USS Wasp (LHD 1) ARG.

In December, the battle group and ARG participated in Joint Task Force Exercise 96-1, their "final examination" before deployment, and the culmination of a year of intense preparation.

"Forward-deployed, rotational forces are the main product the Atlantic Fleet delivers to our customers, the American taxpayer," said ADM William J. Flanagan Jr., commander in chief, U.S. Atlantic Fleet. "The men and women of this battle group have worked hard to ensure they are ready to serve this nation. I'm very proud of what they have accomplished and confident they will represent our nation well."

WASHINGTON (NNS) -- The guided missile destroyer Hopper (DDG 70) was christened on Jan. 6 at Bath Iron Works in Bath, Maine. Mary Murray Westcote, sister of the late RADM Grace Murray Hopper for whom the ship is named, was the sponsor.

The naming of the guided missile destroyer for Hopper pays respect to her pioneering spirit in the field of computer technology. Hopper led the Navy into the age of computers. During her career, she was known as the "Grand Lady of Software," "Amazing Grace" and "Grandma Cobol" after co-inventing COBOL (common business-oriented language).

Hopper retired from the Naval Reserve in January 1967, but was recalled to active duty in August 1967 by President Lyndon B. Johnson because of her much-needed expertise in applied computer science. She retired a second time in August 1986. She passed away on Jan. 1, 1992.

This is the first time since World War II, and only the second time in Naval history, that a warship has been named for a woman from the Navy's own ranks.

Decommissioning: USS Yellowstone (AD 41), Jan. 31
That's it this time. I promise more next month. Good listening.

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Utility Monitoring in the Maritime Bands
Editor: Jim Pogue (kh2ar@aol.com)
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Memphis, TN 38173-0888 USA

Just a few items for the column this time. I hate it when work interferes with our hobby!

Rick Albright tells us, following up on my earlier post on changes at ailing Royal Cruise Line. The cruise ship "Queen Odyssey" (ex-"Royal Viking Queen") will be taken over by Seabourn Cruise Line on 26 Jan. in Puerto Rico, according to Business Wire news reports. The ship will continue to sail with its present name and Bahamian registry (callsign C6KO6) until 22 July, when it will be renamed "Seabourn Legend" and assume Norwegian registry (and callsign). Here's a chance to log it with two names and two calls in the same year.

Alex Wellner from Down Under tells us the latest on the Oriana. One of the world's newest luxury cruise ship the P&O liner ORIANA will arrive in Sydney on the 16th of Febr. The 60,000 Ton liner cost 435 million to build, and will visit 30 ports on this voyage. Cupid Cruise Lines delayed the opening of their 1996 cruise program from Sydney until the 20th of April.The cruise was to start on the febr 3rd,but work had not been completed on the 21,000ton Stardust which is docked in Odessa, Ukraine.

Cunard lines are putting together a land-sea discovery program. Guests will be able to combine their cruise with special Eastern and Oriental express deluxe rail,between Singapore and Hong Kong. The Sea Godess II will sail between Jan 10 and March 27.

Pacific Island Travel centre is putting together some new adventures in conjunction with Gray Line of Alaska.Coastal trips includes ride in paddle

steamers,visit glaciers etc.

All these cruises can be heard on the usual Pacific HF channels.

The SS Rotterdam,flagship of the Holland America Lines, will be retired next year after more than 28 world voyages. In 1989 the ship was named "Ship of the year" by the Cruise Line society. The latest itinerary is: Hobart-Melbourne-Hong Kong-Vietnam-Singapore, Port kelang in Malaysia-Phuket in Thailand-Bombay-Mombasa (Africa)-Cape Town-Rio de Janeiro and finally New York.

That's all for this month. I promise a bigger load of info next time.
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New Products, Books and Reviews
Rick "RD" Baker, editor
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This month we have a full slate of items. Stuff has been really pouring in lately! This month more software, conventions, and a book review...

NEW PRODUCT REVIEW

o SEAPLOT: software by Douglas John Standen

Last month we reviewed the sister program called 'Airplot' that John developed. First, John dropped me a e-mail to let me know that besides Tony Orr, Keith Elgin over in the UK helped with the testing and input for these programs. Sorry Keith, I only knew Tony had done some work. I'm sure that others helped John perfect these programs too. Also, Gremlins snuck into my program and chopped off the end of John's e-mail address. It should be: John@metsys.demon.co.uk (I chopped the .uk off).

Installation was discussed last month and is the same for all of John's programs; very easy taking just a few minutes overall. The program features are the same with a Windows style gray boarder, highlighted commands as the mouse passes over the menu item and with the main MENU along the bottom of the display, while others are available as drop down menus, tables and palette. SEAPLOT runs on 286/386/486 or Pentium systems and requires a serial microsoft style mouse in com 1 to 4. I ran it in a Compaq Presario Pentium 90 under Windows 95 and a generic 386/20 under DOS with good results.

The program generates maps for anywhere in the world at any scale, ships may be entered from World Meteological Organization files containing thousands of ships all over the entire world in SYNOPTIC code and obtainable via the INTERNET; ships obtained from BBXX RTTY Meteo broadcasts; or by entry of data from the keyboard for ships heard by radio. The program will plot both ships and marine platforms.

Other program functions:
- MAP: You may generate a map at any scale for any area of the world, then color and save the map. A world digitized database is included.
- GRID: Overlay a latitude/longitude grid to an existing map.
- PLOT: Normally this will be reading a WMO ships file from the INTERNET, which gives all the weather conditions reported by the ship, or an RTTY report, giving the same info.
- MARKER: Puts a star on the ship position, overlaid positions are allowed, so on the world map, every ship will be shown.
- IDENT AND MARKER: Puts a star and the ships callsign on screen.
- WIND AND MARKER: Puts the wind velocity at each ship position.
- TEMP AND MARKER: Puts the Air temperature at each ship position.
- QNH AND MARKER: Pressure at ship position.
- PLOT SINGLE SHIP: Allows an entry of a specific callsign to be searched and the ship position displayed on a blank map.
- OVERLAY PORTS: User file to overlay any ports entered in the ports file as a name lat/long. Keyboard position; Enter a ship ident and position heard by radio.
- TRACK: When all the ships are displayed on the screen, the track function allows the user to point at a ship and click the left mouse. The historic file is read and all the old positions will be displayed with a star and a line joining the positions.

- SPEED: Pointing at a ship on the tracking screen will give it's current position, last position, distance and the speed over the period, so long as an earlier report is in the historic file.
- FURTHER OPTIONS: You may now select future positions. Point at a screen position and a drop down box will indicate the distance and time to the new position. A cumulative function is available where you can see a ship approaching for example the St Lawrence seaway, click at many points down into the Great Lakes and see the estimated time of arrival at its final port.
- INFO: Point at any ship on screen and a drop down table will display, Date; time; ident; flag; ship name;(not demo). Temperature, pressure, wind velocity, dewpoint, cloud cover, low cloud, medium cloud, high cloud, wave height, steaming direction, speed, current weather, past weather, etc.
- DOS_PR: Dumps the chart and all the ships, tracks if any, etc, to a printer.

Seaplot is now released as a demo version and available from:-
DOS:- ftp ftp.demon.co.uk directory: /pub/ibmpc/dos/apps/demos/seaplot

NETSCAPE/MOSAIC
ftp://ftp.demon.co.uk directory: /pub/ibmpc/dos/apps/demos/seaplot

The program is in a self extract zipped format as:- SEADEMO.EXE and is bytes: 1,401,340. John also has the Airplot demo on ftp.demon.co.uk in pub\ibmpc\dos\demos\airplot where very soon he will have all the demo's of Airtrak, SeaPlot and Synoptic. Prices: The registered version is 35 UK pounds from: JHS SYSTEMS AND SOFTWARE, CROPTON, PICKERING, NORTH YORKSHIRE, YO18 8HL UK. Or for more info, contact John at the e-mail address listed at the start. Payment must be in Eurocheque or pounds, for dollars conversion add U.S. ten dollars in notes. Includes postage worldwide airmail.

I guess you can tell that I liked this program a lot. Being a big maritime fan, this is the first program of it's kind designed from the ground up for the maritime hobbyist that I'm aware off. I have used it to track SAR operations being conducted by using USCG aircraft numbers as "Ship ID". It does so much, it truly takes some time to get use to all of it's powerful features.

I had hoped to cover John's last utility orientated software program 'Synoptic' this month but I ran out of time and space. So next month we'll finish up with this series.

o HOKA: CODE 3 GOLD

Hoka sent out a press release for the new Code 3 "Gold" decoder, and below are the highlights:

"This has got to be the hottest VHF and Shortwave decoder to hit the streets. Over a year of hard development work over at our Netherlands HQ has resulted in this latest decoder product. Code3 Gold uses the very best of software DSP filtering and detection technology (borrowed from our professional Code30) and the very latest surface mount miniaturized electronics for the hardware interface. The performance is stunning, the compactness remarkable and the price is simply unbelievable!

Stunning performance

Anyone used to using our professional package, Code30, will be amazed at how we managed to achieve such high performance from so little hardware. The method we use is identical that used with Code30. Hoka Electronics is unique in the decoder market to put all the DSP software into PC compatible software code. This makes it much easier to fully interlace the DSP filters with the software signal detectors and system decoders making on-the-fly adjustments to the shift or baudspeed completely seamless to the decoding process. From the initial analog to digital conversion using the latest SMD hardware, everything else from the roofing filter, the FSK detector, to the post detection filters are all done on your PC! All optimized for every possible combination of keying speed and bandwidth. All of this filtering means your receiver does not need to have expensive additional narrow filters for RTTY. Simply use your wideband SSB setting for Shortwave monitoring and AM or FM for VHF.

No power supply needed.
All of the interface's modest power requirements are supplied from the PC using the serial port itself. In fact, there is more than enough power available - even when using a laptop.
No Copy Protection!
That's, right! No copy protection. For the first time ever for Hoka Electronics we offer our Code3 software without any software copy protection at all.

Automatic analysis and detection for shortwave systems After the press of just one key [F5], Code3 Gold really starts pulling its weight. After bringing up a simplified spectrum analyzer screen showing the system's shift and baud speed, all you have to do next is press the [enter] key. Code3 Gold does the rest for you. If it is a system installed in your version of Code3 Gold, it will immediately jump to that decoding module and lock into the system. If the system you are listening to is not supplied with your software, it will simply tell you the system name. You may not be able to lock into the signal and decode it, but at least you know what system it is!

PC Requirements Any modern IBM PC clone with a 386DX40 (or better) processor although a 486 is highly recommended. MSDOS v3.2 or later, with at least 512k free DOS memory and a spare serial port (COM's 1 to 4 supported). Both VGA and SVGA up to 1024x768 (ET4000) are supported with up to 256 grey scales. Code3 Gold only needs 2MByte of free disk space! For those who MUST run Windows, Code3 Gold will happily run in a Win3.1x DOS box, but not in a Win95 DOS box (yet!) - the only down side is that you need the power of a Pentium to be able do it successfully!"
End release

Apparently, these modes are offered standard: ACARS, POCSAG, DTMF, PACKET, BAUDOT, ASCII, SITOR, PACTOR, FAX, SSTV (supports Martin 1 in full color if you have a video card that is based on the Tseng ET4000 chipset), As optional systems for strictly shortwave, you need the "Shortwave Option". This adds "nearly every decodeable system there is to find on shortwave". "Annex 10" Aircraft selcals, Morse, Hellscreiber , ARQ-S, ARQ-E, ARQ-N, ARQ6-90/98, ARQ-E3, ARQ-SWE, ARTRAC, POL-ARQ, F7BBN Baudot, Twinplex, CCIR242, TDM, CCIR342-2 TDM, FEC-A, FEC-S, Autospec, Spread, HC-ARQ, TORG10/11, ROU-FEC, HNG-FEC, COQ8, COQ13, Piccolo Mk6, and SYNOP (AAXX, BBXX with 10,000 stations) are listed.

Now mind you I haven't seen the Code 3 Gold yet, this is all from the original Hoka press release. I did contact the U.S. distributer, Jim Springer, at Computer Aided Technologies. Jim has no U.S. release date yet, but hopes it will be soon. Also, this news is very tentative, and no guarantees or promises are implied. The estimated European price NLG 695 (about =A3280), UK price is said to be 295.00 pounds with the SW Option at 125.00 pounds. If SW Option ordered at same time as Code3 Gold, deduct 20 pounds. U.S. price COULD be in the area U.S. $425-$495.00. Not sure if this include the "shortwave option" or not. UK Importer: UK Sales Office: Hoka Electronics (UK), 26 Bury Road, Shillington Hitchin, Herts, SG5 2NY. NTech Communications, 8 The Crescent, Willingdon, East Sussex, BN20 9RN. The U.S. Importer is: Computer Aided Technologies, 318-687-2555, e-mail scancat@bcrr.secret.com, Web Site: "http://www.bcrr.secret.com/scancat.html"

As soon as I get more info, I'll be sure to pass it on. I'm hoping to do a "test drive" review of the Hoka Code 3 Gold in this column, and have requested a review unit. Meanwhile, those who have www access, you can link to Hoka and Computer Aided Technologies (Scancat) via the WUN www page at: http://www.leonardo.net/berri/wun

o New Book Release
Understanding ACARS, Third Edition by Ed Flynn (ISBN 1-882123-36-0)
Aircraft Communications Addressing and Reporting System (ACARS) is an interesting part of the hobby, especially with systems making use of HF now, although the dust hasn't settled there yet.
Many HF aero SSB fans are also VHF ACARS buffs! This impressive work, newly updated and released in it's third edition, covers the topic A-Z. Softbound and coming in at 91 pages, additional material for the book

was provided by Fred Osterman and Robert Evans.
The world of ACARS monitoring is fairly new, and this book represents the first serious attempt to provide information on these messages. It also covers the basics on how to monitor this mode, and what equipment is needed.
Other chapters include Frequencies and Coverage Areas; ACARS Systems Components; Operating Modes; Message Format; and all of the various known message types and their explanations!

Appendix's in the back provide:
*Aircraft Type by Registration Number
*International Civil Aircraft Prefixes
*Airline Carriers
*Airport Identifiers (ICAO 4 Letter and IATA 3 Letter)
*Key to Aviation Weather Observations
*Key to Aviation Weather Forecasts
*and a Further Reading list....

Not just useful...a needed resource tool for this type of monitoring!

Published by Universal Radio Research, 6830 Americana Parkway, Reynoldsburg, Ohio 43068 1-800-431-3939 and available there, as well as other sellers of utility related books I'm sure. Also Universal Radio has a www page at: Http://www.universal-radio.com/ (also via the WUN www page listed above) and via e-mail at dx@universal-radio.com

CONVENTIONS
o Dates for Expo 96 and Keynote Speaker Announced
The following press release was received from Grove's:
"Share the experience, bring a friend" is the theme for the 7th annual Grove Communications Expo that will be held on October 18-20, 1996 in Atlanta, Georgia.
In commenting on this year's theme Bob Grove, President of Grove Enterprises said, "Just as we host the Expo as a gesture of good will to the radio hobby community, you can be an ambassador for recreational monitoring by bringing a friend to the Expo. With growing pressure from commercial interests to own the radio spectrum and lock out listeners, our numbers are what speaks loudly to the law makers. I'm looking forward to seeing you all this year, and to seeing fresh faces as well."
Formerly known as the Monitoring Times convention, the name of this popular annual event was changed in 1995 to the Grove Communications Expo. The name change was made to broaden the scope of the annual event to cover new and emerging communications technologies.

To help foster the Expo theme, Grove is offering special rates to convention registrants who bring along someone who has not attended a previous convention. If you bring a full registrant to the Expo you can take $10.00 off your regular registration fee of $55.00 for the weekend full of activities. In order to get the special rate, both registrants must register at the same time.

The highlight of this year's Expo is the Saturday night banquet. NASA astronaut and astronomer, Ron Parise, WA4SIR will deliver the keynote speech. Dr. Parise has made two trips into space aboard the space shuttle and during those missions operated the shuttle amateur radio experiments (SAREX). Tickets for the Saturday night banquet are $25.95 and seating is limited, so make your banquet and convention reservations early.
Several special events will be conducted in conjunction with this year's Expo. The Society of Amateur Radio Astronomers (SARA) will be conducting their fall conference for their members during the Expo weekend. Members of SARA can attend their conference for a $25.00 fee. SARA will also be conducting radio astronomy workshops, forums and exhibiting at the Expo throughout the weekend. Full registrants to the Grove Expo are welcome to attend any of these forums and workshops as part of their registration fee.

On Friday night, October 18, the Expo will sponsor an International Shortwave Broadcasters forum that will be hosted by noted broadcast host Ian McFarland. We expect broadcasters from stations around the world to be in attendance. Some of these broadcasters will also have exhibits at the Expo.

Exhibitors have already started signing up for displays at this year's Expo. Computer Aided Technologies, Grove Enterprises, Monitoring Times, Satellite Times, Radio Astronomy Supplies, the Society of Amateur Radio

Astronomers, Sony, and Swagur Enterprises (manufacturer of weather satellite receiving systems) are just a few of the companies and organizations that have signed up for booths. This year's seminar program has been expanded greatly. Over 40 seminars covering topics on computers, the Internet, radio astronomy, satellites and space, and scanning and shortwave radio by some of the world's leading experts in their fields will be conducted. Live demonstrations of equipment and listening techniques by convention speakers and exhibitors at the Grove Listening Post will also be a part of the program.

The Expo will be held at the Atlanta Airport Hilton and the hotel is offering a special convention rate of $76.00 plus tax per day, single or double occupancy. To make your hotel reservation for the three day event call the Hilton hotel chain toll free number 1-800-Hiltons. You must mention the Grove Communications Expo to receive the special convention rate.

Complete details on the Expo 96 are available at the Grove Internet home page on the Internet. Point your web browser to URL address: http://www.grove.net/hmpgexpo.html for the latest information and Expo updates. You can also register for the Expo by sending e-mail to expo96@grove.net and you can get additional information on the convention by sending e-mail to the Expo 96 infobot at the following address: expo96-info@grove.net. To register by phone, call the Grove order line at 1-800-438-8155 or by fax at 1-704-837-2216.

WUN will also be represented at the Grove Expo since we have confirmed that a club table has been reserved. Worldwide UTE News Club staffers known to be attending so far are Jim Pogue, Tony Orr and yours truly. Registration is $55 per person; however, as a bonus to club members, by registering five or more members ON ONE CHECK, those members receive a 10% discount on registrations. This needs to be coordinated, so if your interested, contact me or get together your own group of five.

o 9th Annual Winter SWL Festival

Dates are coming up quick; they are 15 and 16 March 1996. This yearly event is to held at the Kulpsville, PA Holiday Inn.

WUN Membership Director Mike Wolfson will be attending, as are several WUN members. Although primarily a broadcast event, Mike will be speaking on a general overview of utility listening. There are quite a few other longwave, mediumwave, and shortwave forums and a host of speakers, but I did not have a list as of press time.

For further details, contact Mike Wolfson (see Membership column info) or send e-mail to r.deangelo@genie.com

Ok, that's it for this month. Big column and I've got more news and goodies to pass on next month!

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STATION VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

CIVIL SHIPS

Dee Pilot/MTKM5	2182.0	USB	PFC	23	ds	info	(AI)
Far Service/MSWQ9	2182.0	USB	PFC	24	ds	info+greeting card	(AI)
Grampian Eagle/GUJY	2182.0	USB	PFC	31	ds		(AI)
St. Clair/MPRL6	2182.0	USB	PFC	34	ds	viewcard	(AI)
St. Rose/GFCB	2182.0	USB	PFC	41	ds	letter+veri+info	(AI)
Superiority/MMWE9	2182.0	USB	PFC	25	ds	letter+info	(AI)
Toisa Gryphon/GDVH	2182.0	USB	PFC	29	ds	info	(AI)
Veesea Hurricane/VRUF2	2182.0	USB	PFC	31	ds		(AI)
Viking Vigilant/MKXT7	2182.0	USB	PFC	26	ds	letter	(AI)
Weymouth Lifeboat	2182.0	USB	PFC	28	ds	letter+veri card	(AI)
Arild Viking/LAIM	2182.0	USB	PFC	64	ds	letter+info	(AI)

FIXED STATIONS

Chios Aero	5367.0	USB	PFC	12	ds	(AI)
Cyprus Flight Watch	18018.0	USB	PFC	18	ds letter	(AI)
Diagoras Aero	5367.0	USB	PFC	21	ds	(AI)
Kalamata Aero	5367.0	USB	PFC	60	ds veri card	(AI)
MARS Nazareth/NNN0GKF	14470.0	USB	PFC	30	ds	(AI)
Einsatztruppe/DRPG2	3116.0	USB	PFC	31	ds photo	(AI)
TAROM Bucuresti/YRA	5638.0	CW	PFC	22	ds greeting card	(AI)
Tema Radio/9GX	16920.0	CW	PFC	57	ds letter	(AI)
USArmy Ft. Eustis/AAC2	8297.0	USB	PFC	50	ds viewcard	(AI)
Byrd Surface Camp	11553.0	USB	PFC	40	ds (Antarctic base)	(JP)

MILITARY/COAST GUARD SHIPS

Datteln M-1068/DRFA	3116.0	USB	PFC	18	ds	(AI)
Hameln M-109/DRFO	3116.0	USB	PFC	29	ds photo	(AI)
Herten M-1096/DRFP	3116.0	USB	PFC	14	ds photo	(AI)
Karlsruhe F-212/DRAV	10192.5	USB	PFC	23	ds 3rd try!	(AI)
Langeoog A-1441/DRNN	3116.0	USB	PFC	11	ds photo	(AI)
Lowe P-6148/DRBH	3116.0	USB	PFC	28	ds letter	(AI)
Lindau M-1072/DREI	3116.0	USB	PFC	70	ds	(AI)
USAV Chickasaw Bayou/AAEB	13927.0	USB	PFC	420	ds letter+photo	(AI)
WFS Planet A-1450/DRAY	3116.0	USB	PFC	14	ds letter+photo	(AI)
USCG TCC5	6501.0	USB	PFC	29	ds (Chesapeake, Va.)	(JP)
HMAS Gladstone PTF-216/VLRN	8122.0	USB	PFC	35	ds photos+brochure	(JP)
HMAS Moresby A73/VKPM	8122.0	USB	PFC	40	ds photo+stickers+ltr	(JP)
M/V Keizersgracht/PFIJ	8198.0	USB	PFC	170	ds photo	(JP)
USAV Brandy Stn. LCU-2005/AADU	6227.0	USB	PFC	489	ds	(JP)
USCGC Key Biscayne WPB-1339/NGYS	8240.0	USB	PFC	40	ds brochure	(JP)
FGS Brandenburg F-215/DRAH	6779.0	USB	PFC	27	ds letter+cachets	(RB)
FGS U27 S-176/DRDU	6779.0	USB	PFC	101	ds photo+QSL card	(RB)
USS Shreveport LPD-12/NADY	8234.0	USB	PFC	12	ds	(RB)

MILITARY AIRCRAFT

RAF Odiham/ODM70	5680.0	USB	PFC	13	ds	(AI)

MARITIME/NAVAL/COAST GUARD STATIONS

Halifax C.G. Radio/VCS	4408.0	USB	-	15	ds signed viewcard	(MB)
AT&T Coast Station/WOM	4363.0	USB	PFC	10	ds brochure+QSL+chart	(MB)
Bizerte Radio/3VB	2182.0	USB	PFC	27	ds	(AI)
Ny Prestwick	9013.0	USB	PFC	15	ds viewcard	(AI)
Riga Rescue	5680.0	USB	-	37	ds letter+viewcard	(AI)
Gotland Rescue	5680.0	USB	PFC	25	ds greeting card	(AI)
Portland Coast Guard	2182.0	USB	PFC	11	ds letter+info	(AI)
CCG Sept Iles/VCK	518.0	FEC	-	18	ds photo	(RB)

*** TIPS & TIDBITS ***

Last month's column featured a slew of QSL's from non-directional beacons, submitted by regular contributor Jill Dybka. For those who will, the following addresses match those veri's:

NDB 203 DMZ
Dickson Co Airport Authority
Aids to Navigation
PO Box 91
Dickson TN 37055

NDB 206 GLS
FAA Airways Facilities SFU
Electronic Tech
2115 Terminal Dr
Galveston TX 77554

NDB 214 GYN
Sumner Co Regional Airport Authority
Aids to Navigation
PO Box 34

NDB 332 ULH
Tullahoma Airport Authority
Aids to Navigation
City of Tullahoma
Box 1584
Tullahoma TN 37388

NDB 344 CL
(see "400 CI" addr.)

NDB 350 CWH
FAA:SCC
100 John S. Harrison Dr
Huntsville AL 35824

NDB 353 LI

Gallatin TN 37066

NDB 217 HZD
Carrol Co Airport
Aids to Navigation
310 Airport LN
McKenzie TN 38201

NDB 230 HSB
Harrisburg/Raleigh Airport
Aids to Navigation
RR 1
Raleigh IL 62977

NDB 245 LFB
Classic Aero
1000 Airport Rd.
Lafayette TN 37083

NDB 266 BR
D.L. Franz, WA4SZE
DOT/FAA/GA-FSDO-11
Campus Bldg
1701 Columbia Ave Suite 2-110
College Park GA 30337-2748

NDB 276 TWT
Municipal Airport
Aids to Navigation
Box 381
Sturgis KY 42429

NDB 280
Telfair-Wheeler Airport Authority
Aids to Navigation
PO Box 367
McRae GA 31055

NDB 296 ARF
City of Albertville
PO Box 1248
Albertville AL 35950

NDB 323 OUK
Box 95
Silver Creek GA 30173

NDB 326 PKZ
FAA/DOT
AFSFO--FAA Twr. Bldg.
Pensacola Rgnl. Airport
2440 Airport Blvd.
Pensacola FL 32504

NDB 329 AEY
Humphreys Co Airport Authority
Aids to Navigation
1000 Airport Rd
Waverly TN 37185

NDB 329 CH
USAF
437ABG/OTM
Charleston AFB SC 29404

Michael Oexner recently posted on WUN the following address for Brisbane Aeradio:

DOT/FAA
FAA/SW/ASW-471
Attn: C. Smith
SW Regional Ofc.
2601 Meacham Blvd.
Ft Worth TX 76193-0471

NDB 358 TNY
Aids to Navigation
RT 2 Airport Rd
Fayetteville TN 37334

NDB 365 FKV
Aids to Navigation
PO Box 2496
Gainesville GA 30501

NDB 388 MF
Electronic Tech
MFE ATCT/SFU
2600 Hangar LN
McAllen TX 78501

NDB 395 XEN
Greene County Airport
Aids to Navigation
140 N. Valley Rd
Xenia OH 45385

NDB 400 CI
FAA Great Lakes
O'Hare Lake Ofc.
2300 E Devon Ave Rm 411
Des Plaines IL 60018-4686

NDB 400 RO
(See "400 CI" addr.)

NDB 400 SLO
Salem Airport
Aids to Navigation
RTE 1100 Airport Rd
Salem IL 62881

NDB 401 GGK
PO Box 5385
Mayfield KY 42066

NDB 410 BA
Columbus Municipal Airport
Aids to Navigation
4770 Ray Boll Blvd.
Columbus IN 47203

NDB 524 AJG
Ken Wood KF9ZV
Mt Carmel Airport
RR1 Box 54
St Francisville IL 62460

AirServices Australia
P.O. Box 389
Hamilton Central
QLD 4007
Australia
FAX: 07 3866 3568

Jill also provided these for a Vietnamese maritime sta and two French NDB's:

XVS
Director
Coastal Telecommunications Company
12 C Nguyen Thi Minh Khai Street
Dis. 1
Ho Chi Minh City
Vietnam

CZ
Aerodrome de Charleville-Mezieres
Chambre de Commerce et d'Industrie de Charleville-Mezieres
B.P. 389
F-08106 Charleville-Mezieres Cedex
France

PM
Aerodrome de Peronne
F-80200 Peronne
France

There's a rumor currently circulating that the widely-heard ute St. Lys Radio will have a portion of its HF service -- most likely aero LDOC -- axed as soon as next year. The cut is largely a result of Air France terminating a long-standing contract with St. Lys, but also due to sparse activity: as few as five calls a day. Just in case anyone wants to QSL, this is the address for St. Lys' regular maritime service (but will probably do in a pinch):

France Telecom
Service Commercial Radio Maritime
Center Radiomaritime de Saint Lys
Le Chef de Center
F-31470 Saint-Lys
France

# # #

COVER LETTER FRIENDLY BUT TO THE POINT

A couple of issues back we covered PFC's (prepared form cards) and what a half-decent one should look like. What may be in order now is a standard cover-letter to potential verifiers, something you can keep on file as a template to be filled in over again with different frequencies, times and call letters.

What you should probably be aiming for is something that cuts the perfect line between friendly and terse. You want to be just warm enough to get some personnel's attention, but not so much as to turn them off with familiarity. You're most likely dealing with technically-oriented people who are used to seeing things in hard numbers. But take into account, too, that your cover letter/reception report may be just the break in routine that a station employee has needed all day -- and he may have a marked preference for reading your correspondence to the sort that comes from the FCC. You may want to play it by ear each time you write a station; but better probably to err on the side of terseness, sticking to the facts and numbers, and keeping your prose straightforward and short.

Use the following letter as an example:

Station Name
Attn: Comms Personnel
123 Backbay Rd.
Anytown, Anystate
12307

I am a shortwave listener (SWL) from _____. As a hobby, I enjoy listening to communications on the HF band.

On _____, 1996 at ____ UTC it was my pleasure to receive your station's transmission on _____ kHz in ____ (xmsn mode) using the ID _____ (name/call sign).

I thought you would like to know that your signal was good and readable here. Reception was made on a _____ (your receiver) HF receiver, using a ___ foot/meter ____ (random/longwire) antenna mounted at ___ feet/meters.

As part of my hobby I collect QSL/PFC (verification) cards from stations like yours. I would like to add yours to my collection. I'd appreciate very much if you could verify (QSL) this reception, if it is correct, when you get some time. A Prepared Form Card (PFC) to be completed is enclosed as is a self-addressed stamped envelope (or mint stamps, etc) for mailing back.

I very much appreciate your effort and thank you in advance for taking time from your busy day with my letter.

That's about all there is to it. If you're QSL'ing a station about which you know next to nothing, then a straightforward cover letter like this is probably the best you can do. But if you should happen already to be familiar with some aspect of its operation, it can't hurt to be conversational in a circumspect way. Just be careful what you say and try to stick to generalities.

Next month we'll examine some of the pros and cons of Mint Stamps versus IRC's (International Reply Coupons) as enclosures to potential verifiers. Til then, 73, and keep those QSL's coming.

# # #

Thanks to this month's contributors:
(AI) Andreas Ibold, Germany
(MB) Martin Barry, Canada
(JP) Jim Pogue, USA
(RD) Rick Baker, USA
(JD) Jill Dybka, USA
(MO) Michael Oexner, Germany

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SURFING THE LONGWAVES

Editor: George Karayannopoulos, N2OWO
karayan@crow.cybercomm.net

LISTENING WITHOUT A RADIO

Welcome to the February longwave column. We have a very interesting article this month, about receiving longwave with unconventional equipment, and a proposal for the assembly of a list of European longwave beacons. Be sure to read both items and send me your comments!

As always, I'd like to mention that this column is a forum for all longwave fans. Anything that has to do with longwave (not just beacons!!) belongs here. I am always looking for submissions of articles, comments, ideas, suggestions, or anything else that you think would be of interest. Don't assume that what you share will not find an interested audience -- no one is THAT unique! :-)

Congratulations to our European members! Both submissions this month came

from Europe. Input from readers on this side of the Atlantic is slow right now. I am still awaiting input from those of you who promised it to me! YOU KNOW WHO YOU ARE!!!!

Also, I'd like to welcome all members of the Longwave Club of America who became WUNers this month, as a result to the item about WUN published in Lowdown. Go ahead and send me some email - don't be shy now! And feel free to contribute to the WUN list and to this column!!

OK. On to the juicy stuff now.

WUNer Klaus Betke (klaus@aku.physik.uni-oldenburg.de) sent in an article about listening to longwave stations with the help of a spectrum analyzer! Frequencies in this part of the spectrum are low enough to allow equipment other than radios to receive the signals. I am sure you will find Klaus' experiments very interesting. Let us listen to Klaus tell us all about them! (The article that follows has been adapted from his original submission plus subsequent correspondence with him.)
****

Longwave Observations with an Audio Spectrum Analyzer by Klaus Betke

Those of you who have access to a FFT (Fast Fourier Transform) analyzer in the audio frequency range can use this instrument for an exciting VLF radio experiment. The analyzer needs not be professional measurement gear; there are programs that turn a PC with a sound card into a spectrum display.

As an antenna, I use a piece of wire about 1 ft (30 cm)long, which is connected to a high impedance amplifier with 20 dB gain. You can use a cheap TL071 op amp integrated circuit, which is a FET-input operational amplifier made by Texas Instruments. The amplifier must have a high pass characteristic with a cut off frequency of a few kHz; otherwise the analyzer input is likely to be overdriven by hum from the power (mains) line. If you are interested in a circuit diagram, please send an e-mail to me at klaus@aku.physik.uni-oldenburg.de.

With the antenna placed a few yards (metres) outside the house, numerous Navy emissions will produce lines on the spectrum display. Furthermore, Omega navigation signals on 10.2, 11.05, 11.33, 13.6 kHz and one or more of the eight frequencies unique to each station can be clearly identified. What you will see depends not only on your local noise floor, but also on the analyzer's dynamic range and on the presence of very strong signals.

I use the HP 3569A portable analyzer, which has an input resolution of 12 bit. If the German Navy station DHO38 is on the air on 23.4 kHz (it is located only 40 km from my QTH), the signal of Omega station Liberia on 12.0 kHz vanishes below the least significant bit.
****

Thanks, Klaus, for sharing your experiments with us. If any of you try this, send me your thoughts and findings. Needless to say, the spectrum analyzer is not fast enough to allow you to see the CW played on the screen (by means of the carrier notch going up and down visually). However, as Klaus suggested to me, one can measure the RTTY shift by the zoom FFT feature. If only I had seen this article when _I_ was playing with spectrum analyzers in my University's electronics lab!

This method allows you to find active frequencies and tune a radio to hear them sing. I am wondering if this approach wouldn't help beacon hunters determine quickly the active frequencies and tune them in, as opposed to sweeping the band with the tuning dial listening for catches - a process that can take quite some time!

We also received a proposal from WUNer Graham Tanner (ex-G6SUQ, gmt@delphi.com) from London, UK. I thought to share it with you all and get your feedback, especially from our friends in Europe who would have a stake in this. So here is Graham with his idea:

I have not seen much mentioned about European NDBs, and I think that perhaps this is because there is not much information about them.
I have a few books from the Royal Air Force which cover most of the globe,

in terms of airfields, airports, and all manner of aviation facilities. The books are RAF En-Route Supplements, quite similar to the US DoD FLIPs; the 4 that I have cover: British Isles and North Atlantic, Northern Europe, Mediterranean Europe, and Africa and Southern Asia. The areas not covered are: North & South America, Northern Asia, Australia, and Russia and the eastern bloc countries.
What I am willing to do, is to trawl through each book extracting all the NDB information into a single file. The information available is: code, name, frequency, and position (accurate lat/long).
I have made a start on this already, and have done about half of one book. Before I get too far, I have a few questions.
Firstly, do you want the information, or do you already have it? Do you want all 4 books done, or can I leave some/any out? Finally, the books list a number of beacons as Locators, but the seem to fall into the LF freq range; should I include these also? [Please forward your views on all these questions to Graham, with copy to me at: karayan@crow.cybercomm.net - Editor]

I am compiling the data into a plain ASCII file. I have already tried a few sorts on the data, to see it in freq order, or location order. Here is what it looks like:
NDBs

c/s	Station	Freq	Locn
AB	Akraberg	381	N61 23.58 W006 40.05
AP	Aberporth	370.5	N52 06.98 W004 33.57
AQ	Aberdeen	336	N57 08.30 W002 24.18
AR	Akureyri	294.2	N65 45.27 W018 05.63
AS	Angisoq	318	N59 59.28 W045 10.45
ATF	Aberdeen	348	N57 04.67 W002 06.27
BHD	Berry Head	318	N50 23.89 W003 29.56
BIA	Bournemouth	339	N50 46.63 W001 50.47

The 'c/s' is obviously the CW ident. The location is latitude followed by longitude in degrees, minutes and hundreths of a minute. The ASCII format that I mentioned is as used on a PC - no control codes or formatting codes, just letters and number and spaces, with a CR/LF pair at the end of each line. This way, it's easier to sort the list into c/s order, or frequency order, or even location order. Is this format good enough for you?

[Regarding locators...] I have not listed these, but will add them if you want them. What I have so far is 100% NDBs, but if I add-in the 'locator' beacons, I will need to identify which are NDBs and which are not.
****

Well, IMHO this is a very worthwhile effort! The column already has a list of European (and Middle Eastern and North African) beacons, but it is a bit old. Maybe we can reconcile the two lists, once Graham is done.

It seems to me that what we will have in Graham is a VERY dedicated long-waver. Indeed, we have a man of very great patience - and ten very sore fingers :-) Thanks, Graham, for your sharing spirit!

Before I forget it, here is the URL that I couldn't find in my files last time: http://www.mdsroc.com/navaid

This is a URL submitted to us by Kevin Carey, the editor of Below 500, the excellent longwave column in Monitoring Times. This great site is maintained by Chris Piggott, (WZ2B, chrisp@mdsroc.com) and is the only I know of that you can search by frequency as well as ID!

Thanks to all of you who sent me the URL. Shame on me for losing it!

Last, but certainly not least, the current version of the WUNTED list:

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 _____________________________________________________________
/                                                            /  \
|                  WUNTED LF STATION LIST                    |____|
| ID   Freq.   Heard in   Comments                           |
| ---------------------------------------------------------- |
| TE   214     NE USA     or N; double sideband, period      |
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|                          7 sec                              |
| W    272     NE USA                                         |
| W    295     NE USA                                         |
| FE   334     NE USA     Period ~5 sec, ID plus tone         |
| ZDX  367     NE USA     Stryker says ZDX on 369, but        |
|                         no double sideband; the tzb         |
|                         for this one was 368.1              |
| XW   399     NE USA     Not sure about the ID               |
| ---------------------------------------------------------- |
| This is a list of unidentified longwave stations            |
| submitted by WUN members. If you can help us identify       |
| any of these stations, send mail to:                        |
| karayan@crow.cybercomm.net                                  |
| New submissions are always welcome. Send as much info       |
| about the logging as you can.                               |
 __|_____________________________________________________      |
/                                                        /    |
\_______________________________________________________\__/
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Somebody asked me if European stations are welcome here. The answer, of course, is a resounding YES! So keep'em coming in!!

Well, that's it for now! Turn your dial and come down to see what lurks in the basement!

73 es gud DX, de George, N2OWO
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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Hi WUNnies. I have been looking around for material that might interest you and I hope that you like it. Have fun ! Please note my new e-mail address. -Ary-

Radio navigation signals, part 4
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I received the following supplemental info to the ''Radio Navigation Signals'' series. Thanks for your kind reactions !

-> CHAYKA is the Russian equivalent of Loran and is fully compatible. It also operates on 100 kHz. There are 15 stations forming 4 chains:
1) European chain: Bryansk, Petrozavodsk, Simferopol, Slonim, Syzran
2) Eastern chain: Petropavlovsk-Kamchatsky, Aleksandrovsk-Sakhakinsky, Ussuriysk, Okhotsk, Kurilsk
3) Northern chain: Dudinka, Inta, Taimyr, Pankratyev island
4) N-W chain: Inta, Pankratyev island, Tumanny

-> ALPHA. Two new Alpha stations were added to the chain; Murmansk and Ashgabad can now also be heard on 11.905, 12.649 and 14.811 kHz.

-> SPRUT is a fairly new system, designed in 1992 and is based on spread spectrum techniques. It is a Russian system similar to BRAS-3 and RS-10. SPRUT operates in the range 1550-2050 kHz.

-> RS-10's predecessors were RSWT-1 and RSWT-1S.

-> Art Ruben, radio officer on mv Sealand Integrity, invited me on board of the container vessel when it called at the port of Rotterdam. Art showed me the extensive radio navigation equipment and the radio room. It was impressive. When GMDSS takes over, lots of the equipment I saw will not be necessary anymore. Too bad..... Art gave me the following additional info about RDF:
During heavy fog it is difficult for a helicopter to find its way to the ship where it has to deliver a pilot. To help the heli pilot to find the vessel, the ship often transmits long dashes + their callsign on 410 kHz. The helicopter can use this as a homing beacon and can

thus find the right vessel without even seeing it.

-> Supplementary to the Consol paragraph. Former European Consol stations:

Location	Callsign	Freq	Position
Stavanger	LEC	319	58 37.5N 5 38E
Bushmills	MWN	266	55 12N 6 28W
Ploneis	FRQ	257	48 01N 4 13W
Lugo	LG	285	43 15N 7 29W
Seville	SL	315	37 31N 6 02W

-> GEOLOC is a radio positioning system with land based transmitting stations. The transmitting stations radiate spread spectrum signals in the 2 MHz band.
The system has a range of 1000 km and an accuracy of about 2 meters. The measured distances are made available for external processing whenever desired and are converted by the central processor connected to the receiver into a fix which is corrected in real time for propagation speed variations. Geoloc can be linked to Transit and Navstar satellite systems when set in 'H' mode. The satellite info improves the result of Geoloc's fix. When used in AS mode, all transmitters are synchronized through a monitoring station and two-way HF links. In GEOSYL mode all transmitters are synchronized through a two-way time transfer SYLEDIS chain. The last known chain was in France with stations in Plouray, Aizenay and Hasparren. It closed down a few years ago. The system reportedly has no current users.

-> DGPS. Australia has 3 trial DGPS stations;

Cape Schanck, Victoria	314 kHz
Karratha, Western Australia	304 kHz
Horn Island, Queensland	320 kHz

All use the standard protocol - MSK at 100 bits/sec

-> Additional VHF/UHF and satellite systems:

o GEE is a British system, similar to LORAN but using VHF frequencies. This limits the system to line-of-sight.

o SECOR (Sequential Collation of Range) was a US Army satellite navigation and positioning system. Thirteen satellites were launched between 1964 and 1969. Most of the satellites were small (17 kg - 20 kg) and boxy.

o TRANSIT was the first operational satellite navigation system. Developed by the Johns Hopkins Applied Physics Laboratory, the system was intended as an aid to submarine navigation.
The Transit system allowed the user to determine position by measuring the doppler shift of a radio signal transmitted by the satellite. The user was able to calculate position to within a few hundred meters as long as the user knew his altitude and the satellite ephemeris.
The system has several drawbacks. First, the system is inherently two dimensional. Second, the velocity of the user must be taken into account. Third, mutual interference between the satellites restricted the total number of satellites to five. Thus, satellites would only be visible for limited periods of time. These drawbacks pretty much eliminated aviation applications and severely limited land-based applications.

o TIMATION. Developed in 1972 by the Naval Research Laboratory (NRL), Timation satellites were intended to provide time and frequency transfer. The original satellite flew with stable quartz crystal oscillators. Later models flew with the first space-borne atomic clocks. The third satellite acted as a GPS technology demonstrator.

o PARUS (TSIKADA-M). Russian six-satellite military navigation system.

o TSIKADA. Russian is a passive Doppler, four-satellite, civil navigation system similar to the US Transit system.

o TSYKLON. First navigation satellite launched by the Soviet Union in late 1967. The satellite is based on Doppler techniques demostrated by US Transit system.

Sources: Art Ruben, Robert Moore, Vaino Lehtoranta, Kevin Carey, Sercel France and Glenn Dunstan.

Utility Round-up
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o MOSSAD: in addition to the frequency list in WUN#11, the Mossad was also heard on 2120, 2844, 2953, 3495, 4165, 4230, 4461, 5060, 7746, 10172 and 17966 kHz.

o MYSTERY SIGNALS: Mike Chace wrote us about a mystery system that he's been hearing for a year now. Any info is more than welcom folks ! This is what he writes: ''About a year ago strange signals have been copied on the following freqs:
8090.7//8091.7 kHz, 6899.2//6898.2 kHz and 5292.7//5293.7 kHz.
If you monitor one of these frequencies, every 3 minutes or so, you will find a 100.3bd/200Hz signal send ten bursts of about 1.2s duration and disappear. The 100.3bd signal appears simultaneously on each of the // frequencies. Either that, or it's a very grotty 1 kHz shift system! If you wait for the 5 Meg frequency to send, you will then find it quickly on the 6 Meg one, following that, the 8 Meg one. This makes me think that it is a stepped transmitter ala HEP3,5,7,9. If the whole cycle takes 3 minutes there must be a few more "channels". The signal sounds very "birdsong" like. It *does not* sound like the 100bd SITORB-like signals you get between some of the speech scrambler systems. Someone has suggested that this is some sort of Automatic Link Establishment (ALE) system. Have any of you heard it ? All frequencies are usually S5 in the UK until about 20.00 UTC.''

o COUNTING STATIONS: A couple of months ago I found in the ENIGMA newsletter the translation of the messages that the 'Russian Counting Man' stations are transmitting. Digging a bit deeper, I heard from reliable sources that these stations are normal Russian military stations, most probable the army.
So far two different formats were copied with various callsigns. The first one is very hard to find because it uses random freqs. It was last heard on 3824 kHz during the evening (UTC). The station transmits live and uses the following format (in Russian ofcourse):
''I am _callsign_, transmit tuning, await confirmation of tuning (2x). 1234567890 0987654321 (3x)''. The transmissions last only 2 minutes. The second one uses several 'fixed' freqs and transmits endless tapes with the following text: ''I am _callsign_, I have nothing for you. 1234567890''. Sometimes the QRU part (I have nothing for you) is replaced my a message. The most frequently used freqs are 4633, 4328 and 4040 kHz. The best chance to hear them is again during the European evenening.

o The Maritime College of Aaland Island in Finland was recently heard by Bert van Rij in Sitor-A on 12487.5 kHz. Bert received a QSL from them together with a list of the school's equipment. Their shack consists of 1 MF/HF Skanti 8200Ts TX/RX for A3J, J3E, SSB telephony and F1B NBDP, 2 MF/HF DSC Skanti 9000, 1 VHF DSC 55-channels Skanti, 1 2182 kHz watch receiver, 1 Navtex receiver, 1 SART and 1 EPIRB. Nice shack !

o News from Henry J. Hampel, 4033 Blow Street, St.Louis, Missouri 63116, U.S.A. He writes us the following: ''I have a beacon radio station, which became operational on June 28, 1995, with a 100 mW transmitter and a vertical antenna. The radio beacon is now operating on 1690 Khz, with tone-modulated CW, 24 hours a day. Reception reports have been received from locations up to 800 miles away. The call letters are 'STLMO' and it is located in St.Louis, Missouri. An address for verification is broadcast on the beacon.

o From Harry Helms comes the news that the well-known DX personality

"Havana Moon" died on January 9 of lung and liver cancer. He was 59 years old and had lived for the past few years in Ossining, NY. His health had not been good since last summer, and he was diagnosed with terminal cancer shortly after Thanksgiving.

o The Dutch IFOR troops have been heard on 5522 kHz USB.

o When I visited the USA for the first time, I was surprised to find radio stations broadcasting airfield info, info about a national park or Cape Kennedy. They were only audible within a short range of the events that they covered. Yep folks, we're talking about TIS here. NTIRE, the National Travelers Information Radio Exchange is responsible for the Travelers Information Stations (TIS) or Highway Advisory Radio (HAR). These are generally limited power radio stations of 10W maximum, operating on a secondary basis in the AM band. 530 and 1610 kHz are designated for use by TIS, however; due to the new FCC rules, TIS are now allowed to broadcast on any frequency in the AM band. The stations must operate according to non-commercial, voice-only content restrictions. There are a couple of hundreds TIS/HAR stations in the USA and reportedly also a couple in Canada. The most used freqs are 530 and 1610 kHz + 830, 870, 1290, 1480, 1500, 1620 kHz.

That's all for now. See ya next month.....

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The WUN Logs Column

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Introducing TEAM LOGS:
Carl Quick, from Nashville, Tn, USA (cquick@vic.com); Roland Proesch, from Kiel, Germany (Roland.Proesch@kiel.netsurf.de) and Stan Scalsky from Leonardtown, Md, USA (sscalsk@atc.ameritel.net)

We had three volunteers step forward after my request last month to help divide up the work associated with doing the volume of logs we deal with every month in this column. This will hopefully keep us from burning out too quick. Roland will edit the last name A-J logs posted over the WUN list. Carl will edit the last name K-Z logs posted over the WUN list. Stan will handle all e-mailed logs that are not posted over the list. I will continue to handle all logs sent my regular mail and final column edits. A big thanks to all three, and a couple of others who later volunteered but are being held in reserve, for stepping forward to help.

You can help these guys save a lot of time and let them continue to organize and share these logs by making sure you use a full name and geographic location when you post logs at the bottom of your post. Also by using the correct WUN format including your initials at the end in ( ) marks. We have tried to use the same initials month after month and now have a master list. The correct WUN format is:

FREQUENCY CALLSIGN: ID UTC MODE (baud) REMARKS (Initials)

So if you post over WUN or send them typed by e-mail, using this format will save a lot of time. Remember, we will now accept a date for civil aero logs. Place the date in front of the UTC time slot. However, for aero logs not in WUN format, we can't guarantee we will be able to enter a date for you in each case due to the time involved. Dates are not used for Digital, Maritime, Military or Miscellaneous logs.

As always, if you do not wish your name used, send the logs to me and I will keep your name confidential. If your a little shy about your log format, content, correct frequency, etc, we will be more than happy to work with you.

Variety is the spice of life they say, and we have a pretty good variety for you this month. Some very uncommonly seen logs from Australia; lots of great digital logs; and our first logs from France are included with our 67 contributors this month. A 'thank you' to all who took the time to share what they have logged. How about more of you letting us know what you hear? 67 out of almost 800 members isn't a overwhelming number! It would ne nice to see

some logs from some of the other countries represented in WUN.

=CIVIL AERO=

3016 Reach 0DQ2 1000 USB to Lajes. (JP2) BH6Z1 0454 USB Gander/ARP 48N40W F370. United 950 2324 USB JP-DH NY/Selcal check on the ground at IAD. (TO)

3455 Flt 574 0133 USB wkg NY requesting FL 350 from 390; declared emergency (confirmed twice) unable to get full power from right engine. (MS2) Alitalia 631 2342 USB EK-LM NY/ARP MIA-FCO ETA 0705 LOUIZ 2341 F290. Cubana 485 2341 USB NY/ARP JESSE F370 MAPYL IL62 enrt YMX-VRA-HAV, first time for me logging this flight. Iberia 6620 0159 USB KM-AJ wkg NY/ARP 36N60W F350. (TO)

5508 UNID 1214 USB unid stn clg Quibdo (Colombia) ATC. No joy, but first indication that Quibdo is also on this frequency. (DHM)

5530 Aviateca 931 1238 USB Clg first Flores then Aurora (Guatemala), no joy on either. Later, joy with Flores. This flight is heard every Wednesday between 1230 and 1300. May be there other days as well (DHM).

5532 DMO 4673 0217 USB Clg Praha R. here no joy. (TO)

5535 Flight 918C 2322 USB Speedbird LHR LDOC/Pp to Maintrol @ LGW poss. enrt Casablanca. Speedbird 292 2330 USB LHR/PP to Maintrol Ops re: windscreen heater problem. Speedbird 142 2349 USB AG-FL LHR/Enrt Delhi-LHR o/h Tehran ETA LHR 0454. Speedbird 224 0042 USB NY/PP to Ops re Skyview video screens in 1st Class inoperable. USAir 894 0221 USB BF-HP LHR LDOC/Selcal check o/h Canada. (TO)

5541 Air France 596 0152 USB wkg Stockholm, pp to Ops re: passport problems for three pax from HKG: they will have to be detained upon arrival, do not have proper visas to enter France. EC-FFK 0043 USB Stockholm/PP w/Air Europa Ops B757-200. ROL 212 0155 USB Stockholm LDOC/pp to Heathrow Ops. (TO)

5544 SAUDIA 113 2338 USB passing traffic to Jeddah...also wanted Jeddah to try to call up IBERIA 021 with no success...probably because CUBANA 471 was booming in w/repeated callups to Havana. (TB)

5550 BES 657 2248 USB wkg NY/ARP JESSE F330 .80. Continental 232 2228 USB CG-AJ wkg NY/ARP and clearance to EWR. Iberia 6620 0022 USB EL-BM NY/Selcal check. Lufthansa 531 2207 USB LM-ER NY/Selcal check. N48FU 2247 USB wkg NY/ARP HOLMA 2244 F330. N600GP 2233 USB wkg NY/ARP JAINS F370 neg. selcal. TITAN 81 0011 USB wkg New York Radio, cleared to EGUN. Only gave routing up to 60W so do not know the rest as of yet. VR-BOT 2244 USB AS-CE wkg NY/ARP Nassau-BDA GRATX 2241 F410. (TO)

5556 Pasto ATC Colombia 1241 USB tfc w/ Cali. Pereira ATC 1218, called Cali, tfc. Popayan ATC 1226 called Cali, tfc. Pasto ATC 1202 USB Called Popayan, then tfc. These two are real chummy. YL at Pasto must be named Marta, as Popayan calls her "Martita" and he must be Carlos as she calls him "Carlitos". The ita/ito ending is an attachment to Spanish names used for either children or good friends. Ipiales ATC 1204 USB tfc w/ Popayan. A new one for 22 Colombian airports hrd, including 12 on this frequency. (DHM)

5562 Boyero ATC 1149 USB tfc w/unid party. Santiago ATC 1235 USB clg Boyero, tfc about a salida (departure). Cayo Largo ATC 2257 USB tfc w/Boyeros. Varadero ATC 0020 USB answered a call by Boyeros, but Boyero kept clg, unable to hear Varadero. Varadero tried to make contact for over ten minutes before giving up. These are Cubans (DHM).

5565 REACH 70012 0539 USB Recife/ARP crossing UB602 F340. (TO)

5574 NIKE 6 0300 USB HNL/ARP F270 req block F260-300. (TO)

5598 IFB 05 01/13/96 1835 USB wkg Shanwick, FL210. QUID 11 01/13/96 1835 USB clg Santa Maria. No contact. ALW 602 01/23/96 2210 USB wkg New York, recleared FL390. BAW 237 01/23/96 2150 USB wkg New York, BDCK, 747 G-BDXG, 4440 310 4050 3660. (HW) Air Force 1 0035 USB receiving clearance to cruise mach .86. Reach 600 1940 USB Selcal FJ-BM. Titan 82 1025 USB to Lajes. Reach 33/35/36 0925 USB 45-40w to 47-50w / FL 160 (C-130s ?). (JP2) Air Force 1 USB wkg New York ATC w/posn 42n 50w at 0001z flight level 330, Mr. Clinton on his way to see the boys in Bosnia. SAM 26000 0012 USB reporting 42n 50w at 0011z w/New York ATC. (KM) Aeromexico 039 0257 USB BC-QR NY/ARP 36N60W F330. Aeroflot 338 0513 USB Shanwick/ARP 50N40W F330 neg selcal. Air France 031 0539 USB DG-BM Gander/ARP 46N40W F330 req F370. Air France 047 0200 USB

AF-CS Gander/Selcal check. Air France 594 0207 USB FL-DK NY/Selcal check. Air Portugal 9327 0355 USB AF-JS NY/ARP GRUPI 47 F370. Air Europa 122 0210 USB BP-HM SM/ARP 41N40W F390 EC-FFK 757-200. Air Canada 866 0224 USB CQ-KR Gander/Selcal check. Air France 03 0539 USB DG-BM wkg Gander/ARP 46N40W F330 req F370. Air France 047 0200 USB AF-CS wkg Gander/Selcal check. Air France 594 0207 USB FL-DK wkg NY/Selcal check. Air Europa 122 0210 USB BP-HM wkg SM/ARP 41N40W F390 EC-FFK 757-200. Air Canada 866 0224 USB CQ-KR wkg Gander/Selcal check. Alitalia 601 0335 USB JS-CD Gander/Selcal check. ALW 501 0150 USB FJ-DG NY/Selcal check 767-200ER HI-660CA. American 68 0530 USB CM-GP SM/ARP 42N40W F350. American 62 0448 USB JK-LS wkg NY/Selcal check. American 148 0453 USB HQ-RS wkg NY/Gander/Selcal check. AOM 624 0423 USB BL-EG wkg NY/Selcal check. Austrian 3336 0156 USB GP-AR SM/ARP 40N40W F370. Balair 175 0141 USB BJ-DQ NY/Selcal check. Balair 179 2248 USB NY/Selcal check A310 HB-IPL. Britannia 656B 0257 USB CJ-BF NY/ARP 36N55W F370. Continental 40 0115 USB DL-GM Gander/Selcal check. Condor 109 0152 USB BK-EF Gander/SM 43N40W F330. Condor 105 0303 USB LM-BS SM/ARP 44N40W F370. Condor 107 2304 USB CM-QS NY/Selcal check. Continental 56 0255 USB EF-AB Gander/Selcal check. Continental 40 0115 USB DL-GM wkg Gander/Selcal check. Corsair 927 0155 USB CL-DG NY/ARP 26N50W F290. Cubana flight 8473 0234 USB wkg Shanwick with the following ARP:3N15W 0218 Flight level 200 54N20W 0252 55N25W, this could be an Antonov-26. Cubana 9719 0157 USB NY/ARP KOHOE F370 BRUNZ-CLXTN. Cubana 8473 0234 USB SM relaying to Shanwick/ARP 53N15W F200. Cubana 441 2302 USB NY/ARP 32N60W F330 DEENO-RIGNY. Cubana 8472 1301 USB New York/ARP BRUNZ 1300 F270 KOHOE Was informed via the Spotters UK list that my log of CU 8473 on 2/3/96 was an Il-18 enrt Shannon-Gander. Perhaps this was the continuing segment to HAV?. Delta 108 0036 USB JM-DL NY/Selcal check. Delta 10 0037 USB EQ-BF NY/Selcal check. Delta 32 2221 USB EQ-AL NY/Selcal check. Delta 118 0136 USB JM-DL NY/Selcal check. Delta 106 0200 USB CD-BR Gander/Selcal check. Delta 148 0146 USB EQ-AK Gander/Selcal check. F-GPAK 0246 USB AL-DF Gander/Selcal check. French Line 624 0423 USB BL-EG NY/Selcal check. German AF 133 0207 USB Gander/ARP 53N40W F350 tie-up please?. Ghana 161 0413 USB EJ-CF SM/ARP 28N40W F370 ULTEM-POKLA dest. Giant 127 0133 USB CK-AB NY/ARP 51N40W F330 c/s of Atlas Air. I2022 2230 USB AB-CD SM/ARP & selcal. Iberia 9525 0058 USB GL-CD SM/Shanwick/enroute LEMD-KJFK receiving oceanic clearance from Shanwick. Iberia 6620 0150 USB EL-BM NY/ARP @ 34N60W & Selcal check. Iberia 6170 0110 USB HL-BD NY/Selcal check. Iberia 6250 0203 USB KM-AJ Gander/Selcal check. Iberia 9683 0255 USB CL-AK NY/ARP BRUNZ F370 CLXTN-DANER. Iceair 911 2232 USB SM/ARP F350 40N16W. KLM 612 0119 USB DK-BG Gander/Selcal check. KLM 642 0227 USB DL-AM Gander/Selcal check. N110LE 2311 USB FH-AL NY/req F430 & selcal check. Navy LU768 0509 USB NY/ARP F250 req F270. Northwest 36 0202 USB CJ-AD Gander/Selcal ck enrt IAD-AMS. Northwest 38 0237 USB AL-FM Gander/Selcal check. RAIDER 02 2231 USB SM/ARP 3930N40W F260. REACH 600 2218 USB NY/Receiving clearance to dest. KWRI. REACH 67946 2351 USB NY/ARP 39N60W F350 SLATN-FLANN. REACH 70002 2353 USB SM/revised est for 43N20W is 0012. REACH 10311 0518 USB Shanwick/aRP 49N30W F390. REACH 1900 0202 USB BD-HJ SM/ARP 42N40W F350 Richair DC8F. SJM 6208 0245 USB DG-EK wkg NY/Selcal check. Southern Air 6208 0245 USB DG-EK NY/Selcal check. Speedbird 168 0025 USB DH-CJ NY/Selcal check. Sunwing 9906 0341 USB EG-BR Gander/Selcal check. Swissair 111 0254 USB BJ-EQ Gander/Selcal check note ex-BBB A310. TAP 9327 0355 USB AF-JS wkg NY/ARP GRUPI 47 F370. Turkish 582 0312 USB AP-BS Gander/ARP 49N40W F330 .80. TWA 900 0123 USB DJ-AK NY/ARP 41N60W F370. TWA 840 0142 USB EF-AD Gander/NY for Selcal check. TWA 840 0143 USB AF-CD Gander/Selcal check. United 970 2204 USB LG-JS NY/Selcal check on the ramp at IAD. United 916 2236 USB AQ-BG NY/Selcal check on the ground IAD. United 914 2314 USB AQ-BH NY/Selcal check req'd from NY no joy. VIASA 730 0308 USB CF-LM SM/ARP 35N40W F330 42N30W-45N2155.5W. Virgin 006 0458 USB BH-JL Shanwick/ Selcal check. World 6224 0038 USB GH-DR NY/ARP BROME 0033 F290 53.1 fuel remain. (TO)

5616 REACH 90029 2132 USB wkg Gander no joy, UAL909 called Gander abt 90029 clg heard "strength on", nothing on 8864. LOBO 340 2133 USB wkg Gander 45n40w 2125 FL310, 48n50w 2225 w/dest CYQX (Gander). (BH)

IFB71 01/10/96 1950 USB wkg Gander 5730/1949 200 5840/2055 5850/next to 127.9. IFB77 01/10/96 2035 USB wkg Gander, GJBE, 130 130335, FL230. NAVY 49676 01/10/96 2005 USB w/Gander, 49n30w/2025 280 50n35w/2102 51n40w/next. REACH 5021 01/10/96 1920 USB w/Gander, BHCJ, L10 N195AT, 4650/1859 4840/1946 to Frankfurt. AAL 141 01/10/96 1945 USB wkg Gander, BMGK, 767 N335AA, 5650 SCROD. AAL 156 01/10/96 1950 USB wkg Shanwick, EGDJ, 767 N322AA, 4830 370 4920 5015. CDN 87 01/10/96 1820 USB wkg Gander, HJBD, D10 C-GCPD, 5830 310 5740 5650. GTI 128 01/10/96 1935 USB wkg Gander, Recleared FL330. IFB 76 01/10/96 1845 USB wkg Shanwick, 4930 230 5020 5015 to 2899. N12U 01/10/96 1920 USB wkg Gander, FL430. N169CA 01/10/96 1930 USB wkg Gander, HRQS, 5930 410 5940 5750. N1848U 01/10/96 2000 USB wkg Gander, FMCR, 5930 5440 5150. N585UC 01/10/96 2000 USB wkg Shanwick. REACH 4634 01/10/96 2000 USB wkg Gander, HLJK, L10 N188AT, 5530 350 5440 5150 eta Gander 2210. SJM 6216 01/10/96 1855 USB wkg Shanwick, DLFG, req JFK wx. plus NOTAM. TWA 881 01/10/96 1840 USB wkg Gander, Athens - New York JFK. TWA 885 01/10/96 2000 USB wkg Gander, ABJK, 747 N305TW Telaviv/New York JFK 5630 310 5540 5350. UAL 908 01/10/96 2000 USB wkg Shanwick, AGBS, 767 N642UA New York JFKLondon LHR, 4930 330 5020 5115. UPS 6501 01/10/96 1855 USB wkg Shanwick, no contact. WOA 6224 01/10/96 2045 USB wkg Shanwick. IFB 70 01/09/96 1832 USB wkg Shanwick, FMDL, 130 130317, 5020/1913 210 5015/1948 KINOK. IFB 71 01/09/96 1928 USB wkg Gander, 5350/1927 FL230 5340/2032 5230/next. IFB 95 01/09/96 1822 USB wkg Shanwick, 47n20w/1820 FL370 46n08w/1915 ERWAN/next to 132.02 Brest. REACH 60187 01/09/96 1928 USB wkg Gander, Req. FL410. 5750 LODGE to 132.4. REACH 60197 01/09/96 1905 USB wkg Gander, 4840/1902 FL370 48n30w/1946 47n20w/next. AAL 173 01/09/96 1840 USB wkg Shanwick, London LGW/Raleigh, 5820 5930 5940. ACA 868 01/09/96 1825 USB wkg Gander, FL390 cancel request. KJC 221 01/09/96 1845 USB wkg Gander, FLAE 6230 330 6240 6150. N169CA 01/09/96 1945 USB wkg Gander, CRQS, M.75 430 5120 5215. N305FX 01/09/96 1945 USB wkg Iceland, KREP, 30w. N75CS 01/09/96 1940 USB wkg Gander, 5830 390 5840 5650. NWA 55 01/09/96 1855 USB wkg Gander, 5950 330 PRAWN YDP M.84 to 132.65. UPS 7084 01/09/96 1822 USB wkg Shanwick, CFAQ, D8F N851UP, 5920. VRBES 01/09/96 1825 USB wkg Gander, 5740 5650 SCROD. GORDO 12 01/12/96 2015 USB wkg Gander, 51n40w/2016 FL290 52n30w/2103 53n20w/2148 53n15w/next to 2899, (E4B to Mildenhall, supporting the Clinton mission to Tuzla). IFB 01 01/12/96 2147 USB wkg Gander, GHAC, 130 130320 OYSTR FL230. IFB 80 01/12/96 2050 USB wkg Shanwick, 5430/2048 260 5440/2155 5450. IFB 81 01/12/96 1830 USB wkg Gander, FL260. IFB 84 01/12/96 2100 USB wkg Shanwick, FMDL, 130 130317, Radiocheck. IFB 89 01/12/96 2055 USB wkg Gander, 5740/2053 230 4830/2208 5920/next. AAL 155 01/12/96 2100 USB wkg Gander, BEFM, 767 N336AA, 5330 390 5340 5250. ACA 868 01/12/96 2100 USB wkg Shanwick, 5130 370 5120 5215. CDN 41 01/12/96 1905 USB wkg Gander, 5850 370 PORGO. CDN 87 01/12/96 1910 USB wkg Gander, 5440 330 5350 St. Anthony. N137CL 01/12/96 1830 USB wkg Gander, 5550 370 OYSTR to FL390 to 133.42 Destination Bangor. N309EL 01/12/96 2130 USB wkg Shanwick, DKBM, 5440 310 5150 Gander to 122.37. N311EL 01/12/96 2040 USB wkg Shanwick, 5220 5215. N585UC 01/12/96 1840 USB wkg Gander, HPCK, 5430 370 5440 5350 destination Stephenville. N7TK 01/12/96 2120 USB wkg Gander, 5140. N906WK 01/12/96 2025 USB wkg Shanwick, BCGP, 5520 390 M.80 5630 5640. UPS 6077 01/12/96 1905 USB wkg Gander, CDGQ, 74F N675UP, Cologne. UPS 6571 01/12/96 2055 USB wkg Shanwick, Midlands, 5130 330 5320 5315. AIR FORCE 2 01/11/96 1903 USB wkg Gander, AEJP, 707 26000, 58n30w/1902 FL310 58n40w/1942 56n50w/2031 SCROD. IFB 77 01/11/96 1820 USB wkg Shanwick, GJBE, 130 130335, 5730/1924 240 5840/2024 5650/2141 OYSTR. IFB 82 01/11/96 1851 USB wkg Gander, 5030/1954 190 5020/2105 5015/next. IFB 83 01/11/96 1800 USB wkg Gander, GHBD, 130 130316, to 2899 or 8864 due to bad conditions. KESAN 14 01/11/96 1805 USB wkg Gander, to FL250 45.25n30w 42.42n20w 4050n15w. NAVY LA051 01/11/96 1838 USB wkg Shanwick, 60n10w/1837 FL240 61n12.34w/1852 ALDEN/next Squawk 3043. REACH 1499 01/11/96 2020 USB wkg Gander, 4940/2021 370 4930/2105 4920/next. REACH 200 01/11/96 1858 USB wkg Gander, to 135.4 Moncton. REACH 277 01/11/96 1930 USB wkg Shanwick, 6140/1926 220 OZN/1948 5850/next LODGE. REACH 407P 01/11/96 2145 USB wkg Gander, 4540/2132 370 4630/2219 4720/next. REACH 60022 01/11/96 1935 USB wkg Gander, 5930/1935 350 5940/2018

5850/next. AIR FORCE 1 01/13/96 2310 USB wkg Gander, 61n40w/2328. IFB 01 01/13/96 2330 USB wkg Iceland, called several times by Iceland & Gander. No contact. IFB 06 01/13/96 2055 USB wkg Shanwick, FMDL, 130 130317, 5130/2054 FL230 5120/2215 5115/next. IFB 07 01/13/96 2215 USB wkg Gander, FMEK, 130 130315, 51n50w/2229. IFB 76 01/13/96 2135 USB wkg Gander, 48n50w/2220. IFB 88 01/13/96 1950 USB wkg Gander, Recleared to FL240. IFB 89 01/13/96 2105 USB wkg Gander, GJBD, 130 130342, 30w eta Gander/0115. SAM 26000 01/13/96 2245 USB wkg Shanwick, AEJP, 707 26000, 6130/2325 350 6140/0005 5950/next. BSK 296 01/13/96 1955 USB wkg Gander, FL350. CUB 9701 01/13/96 2230 USB wkg Gander, ACFL, 4030 4040 3355 to MUCU. DHL 012 01/13/96 2125 USB wkg Shanwick, FGAJ, D8F N805DH, To Brussel. Switching to 2899. WOA 6220 01/13/96 2235 USB wkg Gander, GHCR, 6030 390 6040 5850. A6-SHZ 01/13/96 2025 USB wkg Gander, 6250 280 6160 to 134.75 Montreal. N7602 01/13/96 2240 USB wkg Shanwick, FL390. VR-BKC 01/13/96 1940 USB wkg Shanwick, to 2899, later back. 5930 350 5940 5850. CFC 106 01/21/96 1855 USB wkg Iceland, 63n30w/1913 FL270 to 2899. QUID 57 01/21/96 1825 USB wkg Shanwick, 50n20w/1853 FL270 50n15w/1925 now in a left turn. 50n10w/2006 50n08w. REACH 20535 01/21/96 1850 USB wkg Shanwick, 5020 280 5030 5240 to 122.375. SHELL 32 01/21/96 1603 USB wkg Shanwick, 5610/1600 350 5720/1645 5830 5840. (HW) BH 30289 1100 USB 57-30w to 57-10w. Sam 60202 1740 USB FL 410/Selcal AF-HP/ 53-20W, 53-15W. (JP2) N663MN 2240 USB Gander/ARP 61N30W F370. N817M 2142 USB Gander/ARP 54N30W F390. SJM 6216 2247 USB DG-?? Gander/ARP 55N30W F390 help w/selcal!. (TO)

5643 QF-4 1306 USB wkg Honolulu radio, Honolulu to Sydney. NZ-75 2117 USB wkg Brisbane radio Christchurch to Bangkok 767. QF-45 2201 USB wkg Auckland radio Sydney to Christchurch 747.400. NZ-32 2209 USB wkg Brisbane radio Osaka-Brisbane-Auckland 767. Cathay-107 2210 USB wkg Brisbane radio Hong Kong to Auckland. NZ-15 1319 USB wkg Honolulu radio, FL350, Los Angeles to Auckland. UNITED-841 1333 USB wkg Nadi radio, Los Angeles to Melbourne. HAWIAN-842 1337 USB wkg Honolulu radio. PACIFIC-952 1338 USB wkg Nadi radio, Nadi to Brisbane Airway B599 ATPEN (20.27s 170.30e) LTO next (Noumea). NZ-6981 1345 USB wkg Honolulu radio, Honolulu to Nadi Airway A-579 CONIE (02.01n 170.19w) CUFFY (05.00s 174.39W) IDEMU (10.00s 177.41w). QF-100 1346 USB wkg Nadi radio, Los Angeles to Auckland then Melbourne 18.00s 17000w 25.0s 175.00w next AQCF VH-OJG 747.400. QF-101 1347 USB wkg Auckland radio, FL 330, Melbourne to Auckland & Los Angeles Airway G594 NUPTO (28.43s 170.00w) OVTOS (25.14s 165.00w) Rarotonga next, BIPUP (17.28s 157.00w). XD-07 1404 USB wkg Auckland radio, Block FL 180 to 270 5643 primary 3467 secondry. this is one or the Antarctic re supply flight's using C-130 a/c from the USAF, Don't know if it's comming from the ice or going to the ice (sorry). [actually XD's are USN a/c of VXE-6, but technically a/c are owned by National Science Foundation (NSF). This Operation DEEP FREEZE support mission will be turned over to USAF/ANG in a few years -LOGS] NZ-101 2104 USB wkg Auckland radio, Auckland to Sydney. NZ-154 1230 USB wkg Auckland radio, Melbourne to Wellington. Korean Air-662 1231 USB wkg Nadi radio, Auckland to Seoul. Solomon-700 1242 USB wkg Brisbane radio, Honiara to Brisbane. Pacific-810 1243 USB wkg Honolulu radio, BGAD, ZK-NZY 747.200. QF-104 1245 USB wkg Auckland radio, Los Angeles to Tahiti & Auckland & Melbourne, EGFM, VH-EAA 747 SP. NZ-18 1252 USB wkg Tahiti radio, Auckland to Los Angeles, GMBR, Any help please? (SB)

5649 ADB 305 2159 USB Gander/ARP 60N40W F280 60N50W-59N60W A/c of Antonov Design Bureau. Air France 6458 2148 USB Gander/ARP 61N50W F330. Air France 007 0230 USB HP-JL Gander/at 50W for Selcal check. Alitalia 639 0100 USB FK-DM Gander/ARP F330 est 47N50W 0110. American 100 0345 USB BE-FM Gander/ARP 51N40W F350 52N30W-52N20W. Austrian 516 0252 USB BM-JK Gander/Selcal check. El Al 016 0351 USB FJ-EK Gander/ARP F330 est 49N50W 0401. KLM 758 0055 USB AF-ES Gander/ARP 46N40W F330. Lufthansa 451 0506 USB BK-GH Gander/ARP 55N40W est 0534 F370. Lufthansa 463 0207 USB AF-KM Gander/ARP 50N50W F370. SABENA 540 0152 USB FG-AB Gander/Selcal check. Saudia 038 0348 USB CF-GM Gander/ARP 47N50W F290 .84. Singapore 7997 0340 USB EL-BS Gander/Selcal check QSY 2872. Speedbird 172 0209 USB DF-HK Gander/Selcal check. Speedbird 216 0350 USB BD-AH Shanwick/ARP 53N30W F310. Swissair 125 0344 USB

DE-GJ Gander/Selcal check. Virgin 016 0348 USB BJ-AH Gander/Selcal check. Virgin 012 0400 USB BH-JL Gander/Selcal check. X9M-TAN 2119 USB HK-JR Gander/ARP 40W F370 .77. (TO)

5652 Air Afrique 9934 0229 USB Algiers/ARP UDELA F330 TIO 0309 MNA. Alitalia 837 0206 USB Algiers/ARP ENDOK F350 IKTAV 0223. Ghana 730 0228 USB Algiers/ARP heavily distorted audio but hrd reg. 9G-ANA, DC10-30 ACC-LHR. Namibia 661 0201 USB Algiers/ARP DJA 0159 F410. Race Cargo 303 0206 USB wkg Algiers/ARP F330 MOKAT 0151 NSL 0241. Springbok 264 0103 USB Algiers/ARP IKTAV 0102 F390 DJA next. Springbok 260 0133 USB Algiers/ARP F390 IKTAV 0129 DJA 0144. Springbok 234 0214 USB Algiers/ARP AMTES 09 F350 DJA 26. Zimbabwe 724 0214 USB Algiers/ARP DJA F350. (TO)

5658 AAT 3331 2328 USB wkg Cairo/ARP SML 28 F370. Air France 440 0105 USB Cairo/ARP ALEBA F330 ME 0132. Air France 6510 0032USB wkg Khartoum/ARP AVONO 31 F370. Air Mauritius 031 0150 USB wkg Cairo/ARP UMINI 48 F330 ALEBA 0204. Air France 442 0200 USB wkg Cairo/ARP SML 06 F330 MRW 0232. AOM 701 0143 USB wkg Cairo/ARP ALEBA 41 F330 ME 0202 TOKAR. Cargolux 715 0037 USB wkg Khartoum/re problem w/ overflight permis. Corsair 902 2322 USB KL-AF wkg Khartoum/ARP Me 2320 F330. DSR 401 2329 USB wkg Khartoum/ARP TOKAR 25 F370 ASM 49. Egyptair 879 0203 USB wkg Cairo/ARP SML 02 F290. El Al 511 0012 USB wkg Cairo/ARP F330 AVUSI 29 EPSIX. Emirates 463 0039 USB wkg Jeddah/ARP F310 Hodeidah next. Emirates 463 0127 USB wkg Sanaa/ARP & reg. A310 A6-EKN. Gulf Air 713 2353 USB FL-HQ wkg Sanaa/ARP F350 A40-GP 767-300ER. LAK 120 0153 USB EP-FM wkg Cairo/ARP F290 SML 53 MRW 0207. Liberte 197 0122 USB Cairo/ARP ALEBA F350 AVUSI 42 Luxor. Lufthansa 575 0129 USB wkg Tripoli/ARP GARIN 35 F350. Lufthansa 595 0137 USB wkg Cairo/ARP F390 ME est 49. Lufthansa 572 2356 USB AL-DK wkg Tripoli/ARP F370. MAH 1330 0000 USB wkg Khartoum/ARP enrt Budapest-Nairobi F330 NUBAR 0003. OCT 777 0132 USB Clg Khartoum over & over no joy. Sanaa Radio YEMEN 2320 USB Tfc rpt to Mogadishu re: Gulf Air 713. Sanaa Radio YEMEN 0127 USB Tfc rpt to Addis re: DYA774. Sanaa Radio 0055 USB wkg Nairobi req do you have QSY w/EK463. Speedbird 068 0002 USB wkg Khartoum/ARP SML 0003 F310. Speedbird 062 2330 USB wkg Khartoum/ARP ME 25 F280 ALEBA 47. Speedbird 069 2340 USB wkg Cairo/ARP AVONO 36 F330. Swissair 292 0000 USB wkg Khartoum/ARP F370 ZRH-NBO. Swissair 287 0051 USB AF-PQ wkg Tripoli/ARP TARIK? F350. Swissair 286 2349 USB wkg Tripoli/ARP ELGAN 39 F330. (TO)

5680 Kap Radio 2331 USB tfc w/Royal 451. Assume this is Kapuskasing, Ontario, CAN. Unid SS tfc here 0000-0004 USB w/mentions of Iquitos & Cajamarca, both cities in northern Peru (DHM).

6532 Monteria ATC 2210 USB clg Barranquilla but no joy. Joy at 2228 retry. ACES 534 2213 tfc w/ Monteria. ACES is Aerolineas Centrales de Colombia, another small airline (DHM).

6535 Dakar 0323 USB wkg Luthansa 527, first time receiving this one at this QTH. (CM) AGAR 26 0108 USB Dakar/re-estimating 19N0822W @150. Air France 240 0350 USB EH-KP Dakar/ARP F350 KENOX 0346. Air Afrique 352 0056USB HS-DG wkg Dakar/ARP AR 0057 F330 A300 Nouakchott to Marseille. Air France 7295 0053 USB wkg Dakar/ARP AR F330 A310 enrt Nouakchott-CDG. Alitalia 688 0157 USB FK-DJ Dakar/ARP UDELA F310 ARDUS-BUPON. Alitalia 672 0208 USB FK-GJ Dakar/ARP UDELA F310. Condor 249 0228 USB wkg Dakar/ARP MOGNI 28 F330. Iberia 6820 0340 USB GH-JM Dakar/ARP RAKUD F330. Iberia 6840 0052 USB EK-CJ Dakar/ARP RAKUD F370 MOGNI-ONOBI. PT-WRC 0329 USB Dakar/ARP est MOGNI 0358 F430 RAKUD. (TO)

6556 N342TC 1144 USB descending from FL370 to FL350 w/posn report to Perth Radio. Charlie Zulu Gulf 1147 USB req selcal ck from Perth Radio. Selcal was BE-FM. (RW)

6577 Aeroflot 358 2010 USB NY/ARP MAPYL 2017 F290 HAV-SNN. Air Transport 505 1954 USB DK-FH NY/Selcal check. American 104 2008 USB BP-EF NY/Selcal check. American 1425 1347 USB BP-EJ NY/Selcal check. American 1019 1402 USB BP-FG NY/Selcal check. N5117H 2040 USB NY/ARP LACKI F390. N801MB 2329 USB NY/ARP PRUIT F370. N810BN 1954 USB KM-DF NY/Selcal check. Speedbird 265 2004 USB BD-CK wkg NY/Selcal+ confirm est for 27N6306W. Transat 556 2135 USB DS-AG NY/ARP HOLMA F370. (TO)

6586 Speedbird 292 0041 USB req flight level 37000. (RR) Ambar 310 2246 USB CE-MS NY/ARP 33N60W F310 A310 HI-659 of AMY. American 1728 2028

USB AH-EQ NY/Selcal check. Biscayne 602 2032 USB GJ-BK NY/Selcal check. Canforce 1250 1946 USB GH-AL NY/Selcal check. N144SX 0028 USB NY/ARP MAPYL F290 squawk 2126 req F330. TOOKY 73 1900 USB NY/ARP passed SLATN 1834 F150-200. TOOKY 63 1901 USB NY/ARP est ZIBUT 1940 F150-200. TOOKY 64 1914 USB NY/cleared to F220 when able QSY 121.2. (TO)

6617 Lima ATC 2239 USB tfc w/Chiclayo. This fq listed in Bob Evans' book, but first time in many tries that I've hrd any Peruvians here, so not much used. (DHM).

6628 Air France 551 0450 USB KM-BD NY/ARP 18N5828W F330. Ascot 3201 0245 USB LM-BJ SM/ARP F370 .83 and selcal check. Iberia 6631 0509 USB DF-LM NY/ARP 33N40W F350. Liberte 852 2124 USB AL-HJ NY/ARP est 27N4829W 2231 F370. N103A 0128 USB NY/ARP 25N40W F370 .75. Springbok 201 0535 USB CQ-BR SM/ARP departure Sal 0508 to JFK est. (TO)

6637 Miami 0250 USB tfc w/Southern Air 102 (DHM) VRBLA 0150 USB w/pp via Houston, arranging limos on arrival, six passengers, lots of baggage. (RR) Miami Radio 1150 USB wkg Ann Arbor(?) 54 w/SELCAL check of EKJM, then Miami Radio wkg AeroChaga(???) 1005 who reported out of Santo Domingo at 1140 estimating Miami at 1250. (TB) Amerijet 731 0414 USB Miami LDOC/clg here no joy at Cancun. Biscayne 296 0453 USB Miami R. LDOC/dep POU 0430 ETA BOS 0533. Biscayne 8608 0147 USB Miami LDOC/ radio checking #2 HF radio. Biscayne 696 0520 USB wkg Miami LDOC/pp w/co. ops ETA PIE 0745. Carnival 222 0218 USB Miami LDOC/Dept msg from MEX ETA SAN Jose 0412 251 pax. Transcolombia 430 0436 USB JK-LM wkg Miami R. LDOC/using this c/s instead of Aeromar Bogota-Miami ETA 0725. United 993 0437 USB JP-DH Miami R. LDOC/Selcal check. United 973 0444 USB EG-LR Cedar Rapids LDOC/Selcal check. United 976 0457 USB Cedar Rapids LDOC/ARP Manaus 0455 F350. United 982 0459 USB AF-DL Cedar Rapids LDOC/Selcal check GRU-MIA. XA-PUV 0451 USB FL-AK Miami LDOC/Selcal check. (TO)

6646 Unid: FF aero comms 0343 USB wkg sev a/c in FF, caught "0106, diagonale...". (RB) [update: Tony Orr sez this is Quebecois accented FF, so possibly Royal LDOC, Montreal -LOGS]

6649 Panama ATC 0009 USB tfc w/American 933 (DHM). American 931 0204 USB GK-LS Panama/req dir TOC F370. (TO)

6855 Unid 2024 USB w/"go to channel six" (RM) FLIGHT FOLLOWING 1217 USB wkg unid a/c who was at Bravo 52 Xray 37 Tango 11...FLIGHT FOLLOWING asked the a/c if he wanted wx for (Stockholm?) Meteo...gave 1200 actual as 1700 overcast, visibility 15 miles, temp -1, wind 200 at 5 knots...my guess w/signal strength & accents is somewhere in Ontario but I'm not sure. I believe the wx fits that location but maybe someone has a better idea. (TB)

6876 Unknown German airliner 2023 USB attempting a pp to Germany via Stockholm LDOC. No answer from number called, Stockholm offered to call the a/c back on sel-cal to try again in 30 mins. Pilot said sel-cal was AJ-BR (= Condor Boeing 757 D-ABNH) (2041z) Air Europa flight AE744 attempting same, got connected to pilots home number in Italy; greetings to family in Italian. (GT)

8170 BRITANNIA 182B 2315 USB wkg Portishead, switched to 8960 for complete msg.(TB)

8188 "23" 1215 USB tfc w/ unid ground stn about a flight to Iquitos, pilot Capitan Alvarez. "80" 1223 w/ tfc to ground stn. Said on route to Miami. This fq is used by Peru's Faucett airlines per Phillip Allen, who got it out of a cockpit while in Peru in December! Tnx! Apparently the aircraft ID simply by flight number. Faucett is not the only tfc on this fq. While listening for Faucett, I have hrd an EE lang Caribbean yacht net several times, SS maritime tfc, and some type of Brazilian/Portuguese tfc. Important to be sure tfc is about flights within or from Peru. (DHM)

8819 Rainbow Radio 1923 USB wkg Continental 11 w/pp to Ops in Houston. QTH? (CM)

8825 I-2022 1523 USB AB-CD NY/ARP 36N40W F290 G.3 of the It. AF. (TO)

8831 Continental 25 1415 USB EF-AB Gander/ARP 59N30W F310. Continental 41 1418 USB DL-GM Gander/ARP 61N40W F310 59N50W PRAWN. Delta 65 1343 USB AH-EG Gander/ARP 59N30W F330 123.5 fuel. LTU 436 1320 USB AH-BE Gander/Selcal check. Speedbird 117 1223 USB AM-GK Gander/ARP 59N30W F350. Speedbird 197 1407 USB BG-AP Gander/ARP 59N30W F370 59N40W 57N50W. United 971 1440 USB CF-BR Gander/ARP 61N30W F370. USAir 817

1349 USB BF-JP Gander/ARP 61N30W F390 61N40W 59N50W. (TO)
8846 Amerijet 744 2032 USB HK-DJ NY/ARP SWORD 2131 F330. American 1786 2151 USB AM-GQ NY/ARP est KRAFT 23 F310 SJU-JFK. AmTran 125 1956 USB JM-BE NY/ARP JAINS F330. Elite 5532 2029 USB JL-MP NY/ARP LETON F350. JERSEY 2 2018 USB NY/ARP F350 MINOW 2014. N121VA 1947 USB FM-AL NY/ARP GRANN F350. N79PM 1905 USB NY/ARP KRAFT F350. North American 8 1856 USB EG-AJ NY/ARP est LETON 1903 F390. TWA 21 2220 USB AE-KL NY/ARP est KRAFT 2236 F350. VASP 882 1957 USB CE-BD NY/ARP LENDT F350. (TO)
8855 United 976 0347 USB clg Porto Velho, no joy (DHM). Air Europa 115 0220 USB HS-GK wkg Cayenne/ARP 1110N4717W F350 enrt Tenerife Sur-International del Caribe Margarita. KLM 716 0521 USB DK-BL wkg Piarco/ARP 08N54W F290. SAVA 9923 0215 USB wkg Manaus/ARP no details copied. VARIG 2057 0542 USB Manaus/ARP MTU 0539 F330. (TO)
8861 Springbok 203 2156 USB Recife/ARP CPT-MIA F350. VARIG 741 0247 USB Sal/ARP F350 est POKLA 0325. Air Canada 871 1428 USB Gander/ARP 60N30W F350. (TO)
8864 American 149 1329 USB HQ-RS Gander/ARP 61N30W F330. American 63 1331 USB AP-KQ Gander/ARP 60N30W F310 60N40W 58N50W. American 51 1422 USB AH-JQ Gander/Selcal check. American 65 1425 USB JK-EF Gander/ARP 59N30W F370. American 45 1437 USB AP-JQ Gander/ARP 60N30W F370. American 109 1441 USB EG-CM Gander/ARP 60N30W F350. American 149 1329 USB HQ-RS wkg Gander/ARP 61N30W F330. Continental 75 1404 USB CM-BF Gander/Selcal check. Delta 11 1347 USB EQ-BD Gander/ARP 60N30W F310. Delta 77 1432 USB EQ-AC Gander/ARP 61N30W F350. Delta 15 1435 USB EQ-BJ Gander/ARP 63N40W F330. Delta 81 1444 USB EQ-AL Gander/ Selcal check. Delta 73 1527 USB CK-BL Gander/ARP 60N30W F370. Gold 02 1234 USB Gander/ARP 54N30W F280 53N40W-51N50W. Hoist 03 1244 USB Gander/ARP 60N30W F350 60N40W 58N50W. Northwest 37 1312 USB CH-AL Gander/ARP 61N30W F350 61N40W 59N50W. Northwest 39 1323 USB CJ-AL Gander/ARP 61N30W F350 QSY 5616/13291. TWA 843 1410 USB DJ-AK Gander/ARP 60N30W F350 60N40W 58N50W. TWA 841 1439 USB AB-HK Gander/ARP 59N30W F350. United 901 1227 USB AG-BS Gander/ARP 60N30W F370. United 915 1404 USB AQ-BM Shanwick/ARP 20W F330 61N30W 61N40W. United 947 1405 USB JP-DG Gander/ARP 61N30W F390. United 951 1416 USB JP-DH Gander/ARP 61N30W F390. (TO)
8867 ANSETT-796 2222 USB wkg Brisbane radio Suspect this a/c is Ansett New Zealand BAe-146. NZ-21 2240 USB wkg Brisbane radio Auckland to Singapore, 767. Polynesian-8330305 USB wkg Brisbane radio Apia to Melbourne, 737. Cathay-108 0330 USB wkg Brisbane radio Auckland to Hong Kong 747.400. Malaysian-136 0337 USB wkg Brisbane radio Auckland to Kuala Lumpur. Thai Inter-992 0340 USB wkg Brisbane radio Auckland to Bangkok MD-11. NZ-203 0356 USB wkg Brisbane radio Christchurch to Brisbane 767. United-842 0402 USB wkg Brisbane radio Melbourne to Los Angeles. VH-SVN 0435 USB wkg Lord Howe island. Singapore 282 2126 USB wkg Auckland radio, this flight uses the same call sign from Singapore to Auckland and return Singapore. Niugini 4 2149 USB wkg Brisbane radio, Sydney to Brisbane and Port Moresby, KMEQ, P2\ANG. Korean 948 2201 USB wkg Brisbane radio. United 841 208 USB wkg Brisbane radio, Los Angeles to Auckland and Melbourne. NZ-6983 2319 USB wkg Brisbane radio, I have no idea! QF 47 2325 USB wkg Brisbane radio, Sydney to Wellington. VH-FAY 2327 USB wkg Brisbane radio, PA-30 Twin Comanche. PACIFIC-400 2335 USB wkg Brisbane radio, Nadi to Fua'Amotu. QF-47 0005 USB wkg Brisbane radio, Brisbane to Wellington. United-862 0308 USB wkg Brisbane radio, Sydney to Los Angeles. EAGLE-1 0337 USB Called repeatedly by Brisbane radio, nothing from the a/c, but i believe it may have been an Australian Army helicopter. COTAM-20 0340 USB wkg Brisbane radio, French Navy usually a Transall C-160. (SB)
8878 Unid 2134 USB w/tfc w/ Sudan Air 051, which was not hrd. Someone off freq from 8879? (DHM).
8879 Mauritius ATC 2130 USB w/Springbok 287 (DHM). Air France 004 1224 USB BM-HR Shanwick/Selcal check. Air France Concorde 001 1209 USB DH-AB wkg Gander/ARP SO 30W F545 climbing F590. Air France 004 1224 USB BM-HR wkg Shanwick/Selcal check. Ascot 5988 1324 USB AK-DH Gander/ARP 60N30W F260 59N40W 56N50W. Gander Radio 1226 USB Wkg Shanwick adv is turning off 11336 for maintenance at supervisor's request. Lufthansa 444 1212 USB CP-BR Shanwick/Selcal check. Lufthansa 462 1228 USB

CG-AK Shanwick/ARP 64N20W F330. Lufthansa 400 1259 USB LM-FS Shanwick/Selcal check. Martinair 637 1306 USB AR-LM Shanwick/ARP 60N20W F330. Monarch 063 1208 USB GK-FL Gander/ARP 60N30W F330 .79. New Zealand 114 1245 USB wkg Perth/ARP RERON F350 .80 RIDLE 767 PER-AKL. Scandi 907 1336 USB Iceland/Reykjavik ATC req est 50W 1357. Speedbird 295 1228 USB BD-EH Shanwick/Selcal check. Speedbird 213 1308 USB EK-PQ Gander/ARP 59N30W F330. Speedbird 175 1357 USB KM-CG Gander/ARP 59N30W F330. Speedbird Concorde 001 1211 USB BD-AK wkg Gander/ARP SM 30W F530 climbing. VR-BDC 1310 USB DK-CG Gander/ARP 60N30W F390 req'd F430 @ 1313. (TO)

8891 Montreal Rdo. PQ, CAN: 2032 USB wkg 82 GOLF w/posn, selcal ck AM-DK. (RB)

8894 Jamba 001 0104 USB Niamey/ARP in the blind IKTAV F370. KLM 598 0033 USB Algiers/ARP KIRMI 0032 F350 DJA 0047. Speedbird 056 0030 USB BR-AF wkg Algiers/ARP Dirkou 0021 F350 ENDOK 39. Swissair 265 0040 USB Algiers/ARP AMPIL 0043 F330 AMTES 0110. (TO)

8896.5 Tarapoto ATC 1152 USB tfc w/Lima. Cajamarca 1224 USB tfc w/Lima. Chimbote 1307 USB tfc w/Lima. Trujillo 1324 USB tfc w/Lima. (DHM)

8903 Korean Air-672 0302 USB wkg Port Moresby Sydney to Seoul HL7456 747.SP. Japan air-776 0425 USB wkg Port Moresby radio Cairns to Narita 747.300 JA-8177. NZ-81 0451 USB wkg Port Moresby radio Auckland to seoul 767 (SB) Air Gabon 600 2216 USB Kano/ARP F310 w/ests JS @ 2317+KA 2333. Air Gabon 606 2243 USB Kano/ARP dep. Libreville 2233 F390 est KA 0003 AMSEN 0016 ETA Marseille. Air France 443 2051 USB EJ-BL wkg Lubumbashi/ARP F310 BUN est 2052. Air France 7085 2221USB CP-HQ wkg Brazza/ARP dep. Bangui 2207 F280 climb. Air France 451 2325 USB wkg Kinshasa/ARP BUN 27 F310 F-BPVY 747-200. Air Gabon 600 2216 USB wkg Kano/ARP F310 w/ests JS @ 2317+KA 2333. Air Gabon 606 2243 USB wkg Kano/ARP dep. Libreville 2233 F390 est KA 0003 AMSEN 0016 ETA Marseille. Angola 8656 0020 USB BH-DG Luanda/ Selcal check. Angola 8691 2030 USB wkg Kinshasa/ARP F330. Angola 8060 2046 USB KL-CG wkg Luanda/Selcal check on the ramp at LDA. Angola 8060 2136 USB KL-CG wkg Luanda/ARP Luanda-Vitoria 2125 off Luanda F350 dest 1421. Angola Air Charter Cargo. Cargolux 714 2239 USB wkg Brazza/ARP UMOZA 40 BT 2307 reg.LX-ECV. Douala R. 2304 USB wkg Clg Kano re Angola 8060 no joy. Gabon 3357 2023 USB wkg Libreville/ARP off Bangui 2022 Libreville at 2109 at F250. C130?. KLM 598 2215 USB Brazza/ARP KOGAN F350. LBT 710 2252 USB Kano/ARP fading in and out caught reg.F-GHEC MD83 and Air Liberte Tunisie. Lufthansa 569 2042 USB wkg Luanda/ARP F350 BUGRO 42 VVL 2129. N74TS 2027 USB wkg Brazza/ARP Niamey-Luanda, a/c type WW24 dept Niamey 1848 ETA 2234 est STM 2100. Niger 001 2007 USB wkg Brazza/Libreville/ARP F350 enrt Franceville-Niamey ETA 2255, o/h Libreville 2019 737 reg. 5U-BAG, Gov't of Niger Presidential a/c. SABENA 569 2132 USB wkg Brazza/ARP BUN Bujumbura-Bruxelles. SJM 6216 2115 USB DL-FG wkg Luanda/ARP AMTAG 2112 F310 ILGOL 47. Speedbird 056 2217 USB NDJ/ARP SOLPA F350. Speedbird 1058 2251 USB Brazza/ARP TERBA 2250 F350. Speedbird 052 2204 USB wkg Brazza/ARP HRE-LHR F310 G-BNLZ 747-400. Springbok 264 2214 USB Brazzaville/ARP @ CF 13 F350. Springbok 274 2300 USB Brazza/ARP VONTI 2257 JNB-ZRH airborne time JNB 1931 ETA 0529 F350 CF at 2310. Springbok 250 2121 USB CD-AB wkg Luanda/ARP VVL 21 F310 ANUBI 2210. Springbok 238 2130 USB wkg Luanda/ARP BUGRO 28 VVL next. Sudan 422 2322 USB Clg N'djamena here no joy. TR-LCJ 2020 USB wkg Brazza/Bangui/ARP enroute Bangui F370 ETA 2120 Falcon 900 of the Govt of Gabon. Zimbabwe 725 2250 USB wkg NDJ/ARP F370 LGW-HRE reg. Z-WPE. (TO)

8906 Air France 071 1341 USB AF-CS Gander/Selcal check. Fedex 4 1522 USB AB-DS Gander/ARP 48N50W F330. Iceair 910 1252 USB LQ-CF Shanwick/ARP F290 40N16W 45N16W. LM411 2224 USB AC-HL SM/at 1510N7315W w/Selcal check. Any ideas on this callsign? Martinair 603 1243 USB CQ-BJ SM/ARP 42N20W F290 38N30W 34N40W. United 965 1453 USB AG-KS Gander/ARP 61N30W F370. (TO)

8918 Panama ATC 2342 USB w/Argentina 1382. Merida ATC 2355 USB w/LAN Chile 1168. (DHM).

8933 Lufthansa 8795 2217 USB wkg Springbok LDOC/dep NBO 2152 F260 ETA FRA 0540. Springbok 203 0146 USB Springbok LDOC/ARP ops normal F350 @ TURAB 0140 ETA MIA 1000. Springbok 203 0146 USB wkg Springbok LDOC/ARP ops normal F350 @TURAB 0140 ETA MIA 1000. West Indian 700

0144 USB wkg NY ARINC/ETA JFK 0524 and arrival info for TTPP landed 2006/15 fuel 18.2. (TO)
8939 Belem 0220 USB tfc w/unid Varig flight. I'm hearing Portuguese Brazilian tfc every afternoon & evening, as per Dan McCreery's tip, but it's tough to ID (DHM).
8942 Singapore Radio 1650 USB wkg various a/c. (GG) Malaysian 2638 1132 USB to Singapore radio w/posn report & selcal check. Speedbird 9 1132 USB to Singapore radio w/posn report. Lufthusana 774 1134 USB w/posn report to Singapore radio. Singapore 2 1138 USB w/posn report to Hong Kong radio. Speedbird 9 1139 USB w/posn report to Singapore radio, now at FL270. Very busy with traffic for Singapore radio that callsigns were read out so fast I couldn't catch them and the other stations on frequency. (RW) BZN 1248 USB wkg HO CHI MIN Radio, GQHM, any help please?? Thai-984 1249 USB wkg Singapore radio, GKCL, HS-TGA 747.200. Singapore-17 1301 USB wkg Singapore radio. Singapore-805 1307 USB wkg Singapore radio, Shanghi to Singapore DFGM, any help please?? (SB)
8949 Unid LDOC 2343 USB (probably Harare) w/msg from '210' saying that he'd be in Kinsasha in 45 minutes. (TB)
8957 Unid Bolivian Aeros 2254-2306 USB Tfc about flights between several Bolivian cities, but missed initial ID (DHM).
8959 UPS 805 2128 USB clg Miami Radio but no joy (DHM)
8960 BRITANNIA 182B 2315 USB wkg Portishead...blocks at Gatwick at 0445 w/262 passengers...then on to Manchester w/87 passengers (93 male, 92 female and 2 children). (TB)
9111 Unid 0800 USB Arabic inter-airfield net (ANEE)
9180 Arequipa ATC 1144 tfc w/ Lima. Also hrd Lima call Andahuaylas, Ayacucho, Cuzco & Pisco. Joy, but I didn't hear a trace of the other stations. Must be much lower-powered. Arequipa ATC 2154 tfc w/Lima. (DHM)
10024 LAN Chile 1168 2145 USB tfc w/Lima, then called Guayaquil but no joy. Pascua ATC Easter Island 1250 USB weak w/tfc w/Lima about Argentina flight 1883. Iquitos 2227 USB clg Lima, tfc (DHM).
11117 Unid Airline Ops freq 1713 USB 'Something MB' clg 'Something Operations' in FF, faint sel-cal tones in the background. Possibly Corsair Ops or Tunis Air Ops (the latter have an aircraft 'MB', TS-IMB an A.320). (GT)
11282 Honolulu 0102 USB wkg various a/c. (GG)
11309 Avianca 015 1927 USB GL-EJ NY/ARP 40W F330. (TO)
11342 DHL526 1914 USB w/pp via unid to Miami. (MF2)
11345 Madrid Air 1515 USB wkg Air France 1149 (ANEE) [should be Stockholm Radio?? -LOGS]
11384 Air Mike 9P5C 0852 USB wkg Honolulu, Posrep & selcal FJ-EK. Honolulu directed him to primary 6532. (AW) Air Mike 977C 2127 USB wkg Honolulu radio, Guam to ?, FJEH, N68046 DC-10.10. United 821 2129 USB wkg Honolulu radio. (SB)
11396 Qantas 27 0936 USB wkg Ujung Pandang w/posrep & selcal check. (AW) QF-74 0332 USB wkg Jakarta radio London-Bangkok-Melbourne 767. Airvan-17 0334 USB wkg Brisbane radio Port Villa to Sydney 737. QF-27 0404 USB wkg Perth radio Sydney to Hong Kong VH-OJO. Aust Asia-135 0405 USB wkg Perth radio Brisbane to Taipei 747.SP. EVA AIR-1312 0406 USB wkg Bali radio No Idea at all. MERPATI-840 0417 USB wkg Jakarta radio Kupang (Indonesia) to Darwin 737. SILK AIR-542 0430 USB wkg Manila radio Singapore to Cebu (Philippines) 737. Dynasty-677 0439 USB wkg Jakarta radio Taipei to Jakarta A300. Ansett-887 0450 USB wkg Ujung Padang radio Sydney to Hong Kong 747.300. Coast Watch 403 0007 USB wkg Perth radio, Australian Customs & Surveillance a/c. Aussi 017 0007 USB wkg Perth radio, FL220, To Bali. Martinair 991 0011 USB wkg Jakarta radio, AFHM, PH-MCN, 747.200 Call sign may have been -99A. NZ-73 0250 USB wkg Bali radio. Speedbird 10 1235 USB wkg Jakarta radio, Sydney to London Jakarta passed this a/c onto Singapore radio at 1238 on 8942. QF-10 1238 USB wkg Jakarta radio, London to Singapore & Melbourne. Speedbird-9 1305 USB wkg Jakarta radio, London to Sydney. (SB)
13205 Rich Int'l flight RIA1900 1127 USB wkg Berne Aeradio, reporting their departure from LIPA (Aviano AB, Italy) at 1025, estimating LTAG (Incirlik, Turkey) at 14.00z, sel-cal is BD-LM, (= Rich Int'l DC-8 N1805). Berne asked they to QSY to 10046. (GT)

13261 NZ-31 2349 USB wkg Auckland radio, Auckland to Singapore & Kuala Lumpur. Reach 6E7 2354 USB wkg Nadi radio, Honolulu to Pago Pago. QF-3 0251 USB wkg Nadi radio, Sydney to Honolulu. (SB)
13264 Shannon Volmet 1819 USB aviation wx. (KW2)
13270 Gander Radio 1821 USB aviation wx. (KW2)
13306 Speedbird 293 1824 USB wkg NY Radio; ELT beacon heard 1805Z while a/c at 40,59N, 04,49W. NY Radio 1836 USB to other a/c req confirmation of ELT beacon. (KW2) Continental 63 1534 USB CM-HK NY/ARP 39N50W F310. (TO)
14890 Unid 1545 USB UK phone patches (ANEE) [Portishead Radio LDOC -LOGS]

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. (This is to save space, not as a statement of correctness -ed).

129.1 DCF49: ASCII 200b Klingenfuss id's this as "IRA" but the if I set the M7000 to 200 baud ASCII, it partially decodes the signal. It generally comes out as rubbish but, every so often, comes "TEST DCF49". (PT)
129.5 SOA 212 : Warsaw Meteo 2130 RTTY 50/135 Wx (RR2)
147.3 DDH47: Amburgo Meteo 1320 RTTY 50/75 Qra (RR2)
518 GNI: G 1800 FEC Niton radio mayday alert mv Covasna yqkk crew 22 pos 41.36n 18.05w. 9AS: HRV 1859 FEC Split radio navtex mgs. SDJ: S 1932 FEC Stockholm radio navtex mgs. (BvR)
1611.5 LGB: NOR 0556 ARQ Rogaland radio mailbox mgs (BvR)
1657.2 Unid 1900 ARQ-E3 200 (ANEE)
1677.2 Unid 1900 ARQ-E3 200 (ANEE)
1905 SAB: S 1822 ARQ Goeteborg r sc ezfs (BvR)
2038 Unid 0247 Unid 110/170 u/i TP sys (RM)
2195.2 DHM44: Grengel Meteo 2300 RTTY 100/400 Wx (RR2)
2296 DER: Moi Bonn 2200 ARQ-E3 96/170 Idle (RR2)
2342 DHJ51: Grengel Meteo 0057 FAX 120/576 wx FAX (DG)
2387.4 HFVBH: D 1831 ARQ-E 96 NGN Bremen idling (BvR)
2461.5 Irish Navy 0140 ARQ unit "26" w "routine" msg w/5LG to "0A" (RM)
2548 Unid 0617 ARQ-E 72 Unid scramble (BvR)
2550.5 Unid D 1837 ARQ-E 96 Unid NGN idling (BvR)
2607 FUO: French Navy, Toulon, F 0619 RTTY 75 w/RYRY & SG's. (BvR)
2690.7 DHJ51: Grengel Meteo 2205 RTTY 100/400 Wx (RR2)
2750.5 Guardia Civil, Madrid UTC? ARQ. (ANEE)
2789 FUE: FN Brest RTTY 75/844 clg FAAA (all French warships). Testtape. (JJ2)
2822 DHN37: Grengel Meteo 0044 RTTY 100/400 wx tfc (DG) DHN37: Grengel Meteo 2210 RTTY 100/400 Wx (RR2)
2844 CFH: CF HALIFAX NS, CAN 0004 RTTY 75/850 test line (SS)
2845 PBB: DN Den Helder 0010 RTTY 75/800 Com Canali (RR2)
2892.3 GYA: RN London 2215 RTTY 75/850 Com Canali (RR2)
3017.7 KVNX 1355 RTTY 50/375 w/RY's to YYYY transmitting from Bulgary? (JJ2)
3168.5 Guardia Civil, Guadaljaral UTC? ARQ @nights (ANEE)
3172.5 IBM1: Roma Meteo 1500 RTTY 50/850 Wx (RR2)
3196 Prague Meteo 0010 RTTY 50/450 Wx (RR2)
3218 EHH3: Jezo Barcelona Guardia Civil, E UTC? ARQ (ANEE)
3219.5 EHH3: Jezo Barcelona Guardia Civil, E UTC? ARQ (ANEE)
3279 DHJ51: Grengel Meteo 2130 RTTY 100/400 Wx (RR2)
3282.2 CSP20: Paf Guarda Por 2315 FEC Msg Por (RR2)
3286.5 CKN: Vancouver Military, BC 0603 RTTY Canada, 75/850 w/ID, NAWS marker. (RB)
3288 RFFXCFB: Unid 2110 ARQ-E 375/72 Msg Fra (RR2)
3312.6 9RTS RTTY 50/254 met RY's 1 uur lang from the Czech Rep. (JJ2)
3321.7 9RTD 1400 RTTY 50/243 RY's for 1 hour from the Czech Rep (0400 on 3312.9). (JJ2)
3355 Unid 0519 FAX w/"NAVLAN METOCENT" "????????????????" (CAN'T READ) "T1200Z 14JAN96 ISOBAR LINES ARE FAIR BUT CAN'T GET ENOUGH DETAIL TO RECOGNIZE AREA. (RR) [NAA, USN Cutler, Me on 3357? -LOGS]
3357 NAA: USN Cutler, Ma 0145 FAX 120/576 500mb chart + surface pressure chart (SS)
3388 2ORB: Unid 1700 RTTY 50/460 Cripto (RR2)

3434 RN Fleet Broadcast 2015 VFT-BAU 100/0 Cripto (RR2)
3434.9 MTI: RN Plymouth 2247 RTTY 100/200 testing (DG)
3451.5 PT-11: Irish Navy 0200 ARQ Irish Navy vessels PT-11 & PT-48 on fisheries patrol exchanging bbc & rte weather (PT-48 selcall=cvxt) @0200-0600. (ANEE)
3482.7 UNHCR? 2230 PACKET 300bd 2230-0000, poss UNCHR, selcall t38ee? (no way i'm hearing Tarawa Atoll in the middle of the night) (ANEE)
3544 2ORB: Unid 1700 RTTY 50/500 Cripto (RR2) [probably Polish Army, Warsaw -LOGS]
3571 SUA40: Mena 1745 RTTY 75/400 Press Ara (RR2)
3588.5 Unid Guardia Navarra, Ochagavia 1845 ARQ 1845-0730. Unid Guardia Civil Navarra Province 0100 ARQ. (ANEE)
3596 ICRC-Belgrade 0820 PACTOR-I w/Sitrep's. ICRC KNIN 0630 PACTOR-I w/msgs. (JJ2)
3615.7 PORTISHEAD RADIO (GKY1) 2128 FEC Marker "GKY1". This marker was GND1/Stonehaven, then GKY8/Portishead, now GKY1. Wx forecast at 2130z for N Atlantic. Return tomarker. (DW)
3764.4 PBB: DN Den Helder 1745 RTTY 75/900 Com Canali (RR2)
3667.2 UNID. 2254 ARQ-E 46.1b/170 4CRC. Betas. Strange bd rate - 46.13. No sync on 48bds. 2301zmsg "zczc kaa70011 18094.46099krm% ggy manf%008089 008089 vfk-vmxom. (DW)
3774 MOI Paris? 0000 ARQ-E3 100bd unid tfc, also 1900-0830. (ANEE)
3789.9 ICRC Denmark? 0600 PACTOR 200bd wkg Berne @0600 selcalls (ANEE)
3804.4 ICRC Sarajevo PACTOR-I w/sitreps. (JJ2)
3830 UNHCR Bosnia 0300 PACTOR 200. UNHCR Zenica 1900 PACTOR 200bd lots o' traffic. (ANEE) UNHCR Zagreb PACTOR-U w/sitreps. (JJ2)
3832.7 RFFP: Mindefense Paris, F 0145 ARQ-M2 200 both ch idle (RM)
3850 ETD3: Unid 2000 RTTY 50/400 Qra (RR2)
3959 Unid 0209 FAX 60/576. Was covered by USA ham radio chatter (RM) [possible Grengel Meteo, D - LOGS]
3959 SUU: Cairo Meteo, EGY 0104 RTTY 75/400 coded wx (RM)
4002 YRR2: Bucarest Meteo 0015 RTTY 50/400 Wx (RR2)
4015 AE1USA 1405 PACKET w/control-call of AE1UFB resulting in "system used for 6Mn & 58 sec, processor time 4 sec". (JJ2) [Army MARS -LOGS]
4018.9 Unid 0127 Unid 110/170 u/i TP sys (RM)
4156.2 Unid 2000 Two New Packet? variants also 4652.15 at 2000-2130. Unid 1930 PACKET 300bd also 4652.15 poss in synch? 1930-2300 (ANEE)
4160 Unid 0124 Unid 110/170 u/i TP sys (RM)
4164 Unid 0250 RTTY 75/170 enc tfc (RM)
4173.5 WSNB: SS KENAI 0828 ARQ W/TLX TO KEYSHIP. ARR PT. ANGELES. LOGIN: 10738 WSNB
4177 DIDT: M/V DEPPE FLORIDA 0707 ARQ W/TLX LOGIN: 64400 DIDT
4178.5 WSNB: SS KENAI 0335 ARQ W/TLX RE: FUEL DISC TO CHEVRON AT EL SEGUNDO. LOGIN: 10738 WSNB 9MYK: BUNGA KANTAN/2 0428 ARQ w/tlx re departed Vancouver, dest Japan carrying wood pulp. (WT)
4183.4 HWN (Navy Paris) RTTY 75/819 & 'VI' w/lots of msgs for RFFUEK/ RFFJC/RFQPMJVN/RFFLC etc. VI's route indicator is RFFNFCAA. Lots of clear msgs. (JJ2)
4191 ENEG: TKH Rakhov 0549 RTTY in 50/170 tfc to Izmail. (IZM/UDP). (RB)
4202.5 USJZ: PB Sergey Vasilisin 2319 RTTY in 50/170 admin tfc to Murmansk Radio from master KM Podgayskiy. (RB)
4203.5 LASG4: Blue Sun 0639 ARQ w.tlx tfc to Antwerp. (RB)
4206 UTIZ: TKH Novogorod 2320 ARQ in crew TG's to St Petersburg, also sends same for TH Vladimir Il'ich, UQJX. (RB)
4212 WLC: Rogers City Rdo, MI, 1640 FEC US, w/MAFOR broadcast for Great Lakes, buoy/ship wx obs, ann of reduced hours. (RB)
4212.5 FFT21: St.Lys Radio, F 2200 FEC w/tfc list, meteo de France, Toulous wx. (RB)
4213.5 SPA22: Gdynia Radio 2047 FEC maritime tfc (DG)
4232 FUF: FORT DE FRANCE, MRT 0033 RTTY 75/850 SGs/RYs/q w e r t y u i o qp (SS)
4246.5 Royal Navy Fleet Brod. 1800 VFT-BAU 100/0 Cripto (RR2)
4258.3 MTO: RN Rosyth 1745 RTTY 75/850 Com Canali (RR2)
4271 CFH: CF HALIFAX NS, CAN 0300 RTTY 75/500 meteo followed by FAX (SS)
4295 HWN: French Navy 0015 RTTY 75/800 Qra (RR2)
4375 Unid 0500 RTTY 75.5/842Hz w/de TBDJ, RY's + testmsg. (Ary sez DF results show Istanbul. Probably Turkish navy -LOGS). TBDJ, Turkish NAVY RTTY 75.5/842 test-slip from Istanbul. (Route Indicator =

RTBDJ). (JJ2)
4489 GLF26: Bracknell Meteo 2150 RTTY 75/425 Wx (RR2)
4492.2 IEA21: IA Torino 0845 RTTY 50/170 Cripto (RR2)
4502 RFFT: 0830 RTTY 50/308 RFFGBX tfc to RFFGAQ, RFFGBW/RFFGCX (French Gendarme). (JJ2)
4508.5 RFFEDCS: Bordeaux FF 0252 ARQ-E 72/326 Tactical msg. (ED)
4562.5 EHP: Guardia Civil 1740 ARQ 100/400 Msg Spa (RR2)
4570 HZN46: Jeddah Meteo 2320 RTTY 100/500 Wx (RR2)
4583 DDK2: Amburgo Meteo 1545 RTTY 50/400 Wx (RR2)
4607.7 Unid 2201 FAX w/wx maps, //4620.6? (LB)
4620.6 Unid 2157 FAX w/wx maps. (LB)
4707.2 RFFVAY: FF Sarejevo 0001 ARQ-M2 200/400 idling (DG)
4752.5 Guardia Civil, Malaga UTC? ARQ. (ANEE)
4777.5 IMB51: Rome,I 1744 FAX 120576 Rome meteo wx chrt (BvR)
4788 6VU23: DAKAR MET 2330 RTTY 50/400 Met tfc & RYs, ID - always poor copy although signal appears reasonably clean !!. (DW)
4803.1 Unid: 2125 UNID 300/170 Undecoded (RR2)
4813 LFZ8: Sofia Meteo 2150 RTTY 50/500 Wx (RR2)
4823 Unid: 0010 PIC-12 20/20 Undecoded (RR2)
4854 UNHCR Varie 0730 PACTOR 200/170 Msg Ing (RR2)
4858 Unid UTC? RTTY 50bd prob fdy test tape (ANEE)
4912 A Pol. Paris 2030 POL-ARQ 100/200 Cripto (RR2)
4930.5 SPW: Warsaw R. 0200 FEC Tfc List (RR2)
4972.4 MOI Hamburg 0756 ARQ-E/VFT 96/85 idling (DG)
4993.5 Irish Army 0700 ARQ Irish Army callsigns 36, 12 (selcall xvvm, poss Curragh barracks) & 51 @0700 (ANEE)
5008.5 MOI SPAIN NET 1540 ARQ Online encrypted text. Ends "hl ps fin". (DW)
RETWBE: Guardia Civil 0930 FEC 100/400 Msg Spa (RR2)
5010.5 Unid 1600 ARQ unid @1600-1715 (ANEE) [poss Guardia Civil? -LOGS]
5022 LKA/GSK VARIOUS 1408 ARQ-E/VFT VFT on USB. (DW)
5022.8 GSK BONN [HF] 1410 ARQ-E 72/85 5022.82. 4CRC. Cct [SHVHF] to Kiel. Betas. QVL svc at 1500z "e:001 a:004". (DW)
5023.1 LKA MUNICH [BY] 1512 ARQ-E 96/85 5023.16. 8CRC. Cct [HFVBY] to Bonn. Betas. No tfc. (DW)
5023.5 GSK BONN [HF] 1546 ARQ-E 72/85 4CRC. Cct [GNVHF] to Hannover. Betas. At 1559z header "zczc 007gnvhf 071657" then halted for a period. Then system off air 1603z. (DW)
5023.8 LKA BERLIN [BR] 1222 ARQ-E 96/85 5023.84. 8crc. Cct [HFVBR] to Bonn. Tfc online encrypted at 1240z. <BR = Potsdam not Berlin>. (DW)
5024.8 LKA STUTTGART [BW] 1607 ARQ-E 96/85 5024.86. 8CRC. Cct [HFFBW] to Bonn. Betas but offair 1610z. (DW)
5049.2 Portuguese State Police NET 1600 FEC Tfc fm 20021 comerpsp & rptd. Ends "ar)))))))". (DW)
5054.8 JYF: Petra 1700 RTTY 50/400 Press Ara (RR2)
5063 Unid 0645 ARQ-E3 192 (ANEE)
5064 MN GEORGETOWN (9MB)? 1617 CW Tfc in offline encryption with 5ltr grps. (DW)
5067.7 MFA CAIRO 1623 ARQ Tfc in ATU80 & some opr chat. Constant mark between bursts. (DW)
5070 OMZ: MFA Prague 0850 RTTY 100/400 Msg Cec (RR2)
5082.3 Unid 0645 ARQ-E3 192 (ANEE)
5083 DHJ51: Grengel Meteo 1000 RTTY 100/400 Wx (RR2)
5095 UNID: 1639 ARQ-E 72/400 4CRC, Betas, also at 1659. (DW)
5097 CFH: Canadian Forces HALIFAX 2209 RTTY 75/850 Marker "NAWS de CFH ii zkr f1 2822 3287 4158 6236 8315 12395 16555 22185". Wkg Canadian ship "CK". "AA/22 de CFH as". CK/6 r" "CK/6 de CFH r 14" " AA/4 de CFH bo k". (DW)
5098.7 UNID: 1657 ARQ Betas and rq's, same at 1703, off air without comment. (DW)
5100 UNID: 0746 RTTY 75/850 Marker"QBF figs". Deteriorating. (DW)
UNID: 1826 FAX 120/576/N/800 Difficult to ID as constant tone interfering w/black frequency. Could be Shanghai or Auckland but neither shown scheduled at this time. (DW)
5102 GXQ: RN LONDON 1713 VFT DCN 8 channel vft on usb, at 2308 VFT 8 channels on USB. (DW). (DW)
5104 Unid: Royal Navy? 2110 VFT-BAU/ARQ 0/0 Cripto/Wx (RR2)
5113.9 Polish Army Brest RTTY 50/300 de AQ65 w/ MMY8, RY's + 1 QTC (FM ZSYZOY to ZSXZLY) // 5255 Khz. (JJ2)

5121 Unid 1930 ARQ-E 96bd also 192bd 1930-0345 (ANEE) UNID. 2210 ARQ-E 192/400 4CRC. Idling on rq and 3 betas, same at 2319. (DW)
5140 RWW73: Mosca Meteo 1650 RTTY 50/1000 Wx (RR2)
5144 ICRC BOSNIA 1615 PACT Mode I1. Header ICRC Tuzla to various ICRC location. Variable sync. (DW)
5149.8 Unid: 2205 RTTY 75/850 enc tfc (RM)
5150 MOSCOW MET (RVO73) 1307 FAX 60/576/N/800 End of chart at 90rpm. At 1317z start of 60rpm chart. Little detail. (DW)
5154 ICRC Varie 1015 PACTOR 200/200 Msg Fra (RR2)
5159 ICRC Varie 1045 PACTOR 200/170 Press Ing (RR2)
5160 5UA: NIAMEY AIR 0009 ARQ-M2 96/400 4CRC, 2 chan tdm, Ch:A & Ch:B idling betas. Poor sync. (DW)
5160.5 5UA: ASECNA Nigeria 0035 ARQ-M2 96/425 idling w/weak signal, lost sync. (RB)
5164 ICRC ? 1623 PACT Unid mode, unable to sync. (DW)
ICRC Sarajevo 1650 PACTOR 200/170 Msg Ing (RR2)
5164.4 FRENCH PREFECTURE NET 0753 ARQ Selcals ORLO "n-96 08:54". Selcals EPVO "FIT588 de FIT537 bjr". Brief burst FEC & "de FIT537" in F1A. Mon to disc - logged FIT588, FIT545 de FIT537. FIT537 de FIT545. Selcals AJCA CHIN. At 0800 ARQ Monitor to disc. Little tfc compared 25th. New selcals TOIL & BEDO, & new? callsign FIT505. (DW)
5169 ICRC Pale 1630 PACTOR 200/170 Msg Ing (RR2)
5179.8 Unid: Pechino Meteo? 1630 RTTY 50/850 Wx. ZJX: Unid 1630 RTTY 50/400 Ry (RR2)
5205.5 Unid: VFT 2050 UNID 75/0 Undecoded (RR2)
5220 SUA94: Mena 1750 RTTY 75/300 Press Ara (RR2)
5221 Unid: 2218 Unid 110/170 u/i TP sys (RM)
5221.5 TYE: COTONOU AIR 2250 ARQ-M2 96/400 4CRC. 2 channels. Ch:A [UNA]. Air tfc to Niamey. Ch:B betas. (DW)
5227 RN GIBRALTAR (GYU) 2323 ARQ-M2 96/340 5227.045. Chan E in VFT. 2 chan tdm. Chan A Betas, Chan:B Alphas. (DW)
5227.5 RN GIBRALTAR (GYU) 2319 ?- 75/340 5227.555. Chan D in VFT. On line encrypted, ACF7. 75bd, 340hz.. (DW)
5228.2 RN GIBRALTAR (GYU) 2315 ?- 75/340 5228.235. Chan B in VFT. On line encrypted, ACF7. 75bd, 340hz,. (DW)
5229 RN GIBRALTAR (GYU) 2312 VFT DCN 8 channel VFT on LSB (usually USB).. (DW)
5240 4OC2: Tanjug 2100 RTTY 50/400 Press Ing (RR2)
5262 LKA/GSK VARIOUS 1122 ARQ-E VFT Channels 1, 6, 8 active on USB. (DW)
5262.8 LKA BONN [HF] 1126 ARQ-E 96/85 5262.82. 8CRC. Betas. Cct [BRBHF] to Berlin. No tfc. (DW)
5264.5 LKA BONN [HF] 1155 ARQ-E 96/85 5264.52 8CRC. Betas. Cct [THVHF] to Erfurt. No tfc. (DW)
5265.2 GSK BONN [HF] 1213 ARQ-E 72/85 4CRC. Betas. Cct [GOVHF] to Berlin. Tfc at 1355lt (1255z)"sss gogo" then online encrypted. (DW)
5275 SUA211: Mena 1750 RTTY 75/400 Press Fra (RR2)
5278.5 Guardia Civil, Cadiz-Melilla 1120 ARQ arrest reports. (ANEE)
5287.5 Guardia Civil, Valencia 1100 ARQ. (ANEE)
MOI SPAIN NET 1345 ARQ 100/400 Tfc in SS p/l. At times weak, poor sync/copy. Selcals TWVE/TWVB. (DW)
5312 DFZG: MFA Belgrado 1030 FEC-A 144/400 Msg Oper. (RR2)
5320.5 MOI SPAIN NET 1104 ARQ 100/400 Intermittent sync. Idling betas. (DW)
REFYMV: Guardia Civil, JECOR 0735 ARQ Cuenca, E 100/425 w/SS tlx descriptions. RETYMR: Guardia Civil, JECOR 0805 ARQ Ciudad Real E, 100/425 w/sev tlxs sent. (RB) Unid: Guardia Civil 0945 FEC 100/400 SS Msg. (RR2)
5325 RCW75: ALMA ATA 1408 FAX 60/576/N/800 Chart w/observations. At 2257 FAX 60/N/800 Chart with plotted obs. (DW)
5327 HCGEOTB = UNHCR Georgia (Tiblisi) PACTOR-U w/nx about the Sukhumi situation. (JJ2)
5336.4 Unid: 1615 DUP-ARQ 125/170 Cripto (RR2)
5344.1 RWS71: Arkhangels. Met 0820 RTTY 50/900 Wx (RR2)
5346.2 UNHCR or ICRC Chechenya ARQ msgs about the war there. (JJ2) [Ary sez see this months Digital Review -LOGS]
5346.9 RSW71: ARKHANGELSK MET 1408 FAX 60/576/N/800 Chart w/plotted obs. Transmitter slight fast. (DW)
5353.5 MOI SPAIN NET 1552 ARQ 100/400 Msg in Spanish p/l then offair, twice. (DW)

5355 RND77: MOSCOW MET (RND77) 1606 FAX 90/576/N/800 500 hpa upper air (AUXX) chart. (DW)
5357 Unid 2207 ARQ-E 72/200 idling (DG) UNID. 1419 ARQ-E 72/170 4CRC. Betas. (DW)
5371 TUNISIAN NAT GUARD NET 1619 FEC-A 96/200 Arabic (ATU80). (similar to those in RTT on 5796 on 28/Dec). Idling fm 1639z then offair. At 1538, same w/tfc in ATU80. (DW)
5380.5 MOI SPAIN NET 1703 ARQ 100/400 Selcals TWLA and TXXX. At 1652 ARQ 100/400 Selcals TWLL no qso. (DW) Unid: Guardia Civil 1515 ARQ 100/400 Msg Spa (RR2)
5397.7 MOD Paris ARQ-M2 200bd wkg French IFOR Sarajevo (ANEE) FF PARIS [RFFP] 1810 ARQ-M2 200/400 4CRC. 2 chan. Chans A: and B: betas. Ch:A tfc to RFFVAY svc referring cct [FKWA]. Tfc in offline encrypt. Ch:B cct [FDXB] svc RFFVAY de RFFVA zid040. (DW)
RFFP: Mod Paris 2305 ARQ-M2 200/400 Idle (RR2)
5400 RN LONDON (GYA) ? 2119 RTTY 75/850 Marker "v's ikckc ozigya int zbz QBF gigs channel 2 channel 2"ickc ozigya. (DW)
YOG37: Bucarest Meteo 1435 RTTY 50/400 Wx (RR2)
5404.5 French ARMY unlocated 1955 ARQ-E 72/400 idling (DG)
5429 Unid: 0814 ARQ-E 72/400 idling (DG)
5430 Unid: UTC? ARQ-E3 192bd (ANEE)
RVM45: TASHKENT MET 1850 RTTY 50/455 Met traffic. (DW)
EUH20 1014 RTTY 50/491 transmitting from Lowice Poland short coded msgs in Russian. (JJ2)
5437 FDY: Faf Orleans 1610 RTTY 50/400 Test (RR2)
5474.7 CSY: Santa Maria Air 2203 RTTY 50/700 air tfc (DG)
5526.9 BAF6: BEIJING MET 1931 FAX 120/576/N/800 Weak outlines. (DW)
5677.5 UNID: PACTOR: prob. UNHCR/ICRC from Grozny (Chechenya) Tests. (JJ2)
5700.5 2034 probable LINK 11 transmission (8 pulses) suddenly up on freq, then on and off for a number of minutes. (JH)
5731 YRR4: BUCHAREST MET 0035 RTTY 50/400 Met tfc. Same at 2240 RTTY 50/400 Met tfc then idle. (DW) YRR4: Bucarest Meteo 1530 RTTY 50/400 Wx (RR2)
5732.5 UNID. 1031 ARQ-E 72/430 4CRC. Betas. Same at 1139 ARQ/E 72/430 4CRC. Idling on "alpha RQ beta beta". (DW)
5755 UNID: 0832 RTTY 50/500 Idling on letter shifts. (DW)
5772 SNN299: MFA Warsaw 1650 POL-ARQ 100/250 Idle (RR2)
5773.2 HBD20/2: MFA Berna 1530 ARQ Cripto 5 (RR2)
Unid UNHCR Geneva 0730 ARQ wkg Yugoslavia. Up 20khz from old freq. (ANEE)
5781 UNID: 0908 ARQ-E 85.7/170 4CRC. Online encrypted. (DW)
5796 Unid: 1605 RTTY 50/170 Msg Ara (RR2) [Ary sez maybe FDY, FAF Orleans on 5795? -LOGS]
5797 CM3L: Bulgarian Army net 1445 RTTY 50/850 tfc/proc w/DF2Z BH7D/AM4X/KG6GC. (JJ2)
5807 ZKLF: AUCKLAND MET 0730 FAX 120/576/N/800 Weak signals, multipath fading effects, improving. 2 upper air charts. Surface analysis Tasman Sea. (DW)
5813.5 EIP: SHANNON AIR 0935 RTTY 50/400 Aero tfc & svc CH. Cct [SMA] to Santa Maria. (DW)
5823.7 Unid: 1950 ARQ 100 off at 1950 (ANEE)
5850 OXT: COPENHAGEN MET 1002 FAX 120/576/N/800 End of ice chart #1 dated 13/Jan. Same at 0953 FAX 120/576/N/800 Ice chart #1. (DW)
5887.5 IMB2: Roma Meteo 1435 RTTY 50/800 Wx (RR2)
5862.5 UNID: 1010 ARQ-E 72/E/400 4crc. Idling betas. (DW) [this unid goes back to at least 10/94 -LOGS]
5864.5 AOK: USN Rota, E 0535 FAX 120/576 700 mb height/temp anal. (BvR)
5869.5 Guardia Civil, Orense UTC? ARQ w/La Coruna msgs... also att QSO by Irish navy vessels on 11408.5 in ARQ 100 reversed @0830, then may have shifted to a 15-megger (15725?). Guardia Civil, Orense UTC? ARQ La Coruna messages. (ANEE) MOI SPAIN MET 1108 ARQ 100/400 Selcals TXXX. Tfc in onine encrypt. "qsl+??" and oth opr ex.. (DW)
5872.5 MOI SPAIN NET 1117 ARQ 100/400 Selcals TZSU. Tfc but poor copy due qrm. (DW)
5887.5 ROME MET (IMB2) 1008/1223 RTTY 50/850 Met tfc. (DW)
5906 Unid 0600 FAX wx fax of U.S. appears to have snow storms circled. (RR) [shoud be AFS: Offutt AFB, Elk Horn, Ne -LOGS]
5983 Grengel Meteo 0900 RTTY 50/400 Wx (RR2)

6241.5 Unid: 0125 ARQ all encrypted. (ED)
6263 UFHZ: 0638 ARQ Mv Mekhanik Kraskovskiy ship 54587 tlx abt eta Ceuta pilot maritex (BvR) YQEP: M/V BIRLAD 0600 ARQ rx only, login: 29123 YQEP. N/A: M/V TITUS 0602 ARQ w/tlx re departed CHS, ETA JX. LOGIN: 29343 SGAK. 6ZXJ: BRAZILIAN SKY 0800 ARQ w/tlx, LOGIN: 26423 BRASKY. 3FUM4: JOHNY C. 1928 ARQ w/tlx, LOGIN: 26955 JONY. ELIQ7: FOREST HAWK 0505 ARQ w/tlx, LOGIN: 24943 ELIQ7. (WT)
6263.5 UTUO: PROFESSOR NIKOLAY BARANS'Y 0705 ARQ WKG S/C 3220? LOGIN: 55443 UTUO. (WT)
6264 WEZM: SS EWA 1852 ARQ wkg KFS w/e-mail, ETA Pt. Angeles. LOGIN: 10949 WEZM. C6NJ4: CASCADIAN DAWN 2136 ARQ w/AMVER/PR. (WT)
6267 OVTX2: M/V KIS SOBYE 0705 ARQ w/tlx, LOGIN: 05161 OVTX. (WT)
6267.5 WOVS: SS Overseas Valdez 0355 ARQ products tanker, w/AMVER/PR, login 11095 WOVS. 3FQC3: M/T Eoss 0454 ARQ tanker, w/AMVER/FR, QTH Aruba, login 42176 EOSS. KRCJ: M/T Duchess 1520 ARQ w/AMVER/PR, bound New Haven, Ct to Galveston, Tx. C6CS4: M/V Jytte Danielson 1639 ARQ w/posn rpt, ETA Port of Tampa. (RB) DAFC: M/V COLUMBUS AUSTRALIA 0551 ARQ w/BBXX wx, LOGIN: 211207210 DAFC. (WT)
6269 VVJY: M/V Lok Prem 0545 ARQ w/BBXX wx obs. (RB) 9GYS: M/V VOLTA RIVER 0750 ARQ W/TLX TO BSC TEMA, LDN. LOGIN: 19400 9GYS. WSDX: PRINCE WILLIAM SOUND 2343 ARQ W/WX OBS, BBXX. LOGIN: 10843 WSDX. (WT)
6269.5 Unid: 1812 ARQ MV Tati ship 58116 sc xckm (BvR) EFJL: F/V Playa de Mourisca 0551 ARQ w/NAFO reports, login was 08573 ANA MG E, when last logged used abbrev in login of PLMCAE, poss name chg? (RB)
6270 DIDT: M/V DEPPE FLORIDA 0043 ARQ W/TLX IN GG LOGIN: 64300 DIDT. (WT)
6271 LXCR: INT 1820 ARQ MV Transportmaas ship 36272 tlx tfc (BvR) LXAM: M/V ANTWERPEN 0444 ARQ w/tlx to OST, 21.06S 112.00W (just N. of Easter Isl). LOGIN: 36266 LXAM. (WT) LXDN: M/V Crystal Pioneer 0410 ARQ w/AMVER, login 29409 LXDN. (RB)
6272.5 C6JY7: M/V Sydney Star 0555 ARQ w/BBXX wx obs, login 63100 SYDS. (RB)
6273 WEZM: SS EWA 1605 ARQ W/QRG RPT. LOGIN: 10949 WEZM. (WT)
6273.5 KPFD: SS Arco Prudhoe Bay 0627 ARQ w/login for msg ck. (RB) UAHV: KAPITAN KONEV 0228 ARQ w/AMVER/PR, 4039N 12947W. LOGIN: 55960 UAHV. EX-ABKHAZIYA? VTNT: APJ SHALIN 0145 ARQ W/TLX RE POOR VIS, ICE LAYER 4/5 FT. LOGIN: 23721 VTNT. SZNU: M/V TRIDENT MARINER 0527 ARQ W/TLX TO ORIX MARITIME, TOKYO. 4015N 16559W ETA PT. ANGELES. LOGIN: 16872. VVJY: M/V LOK PREM 0316 ARQ W/TLX 3750N 13907W. LOGIN: 23698 VVJY. (WT)
6274 YLBD: TKH Fridrich Tsander 0655 ARQ w/login for msg ck. (RB)
6274.5 ELRV8: M/V Seaboard Ocean 0608 ARQ Ro/Ro cargo vsl, w/BBXX wx obs, login 24973 ELRV8. C6OK: M/T Condoleezza Rice 1537 ARQ w/24 hour ETA tlx to SW Passage Lightering area, login 308480000 COND. (RB)
6275 WFDW: KEYSTONE RHODE ISLAND 2147 ARQ W/QRG RPT AND TLX TO 2 ADDEE'S (RFRF PROTOCOL). (WT)
6281 KNCX: SS CHELSEA 0745 ARQ w/QRG rpt, LOGIN: 10725 KNCX. WFDW: KEYSTONE RHODE ISLAND 0627 ARQ W/QRG RPT LOGIN: 11227 WFDW. KCZC: SS CONCHO 0647 ARQ CHKIN QRU. LOGIN: 10704 KCZC. (WT)
6283.5 KNCX: SS CHELSEA 0730 ARQ W/QRG RPT. WKG VCT RFRF+. LOGIN: 10725 KNCX. (WT)
6299.5 UTNI: Frits Gekkert 0710 RTTY 50/170 RY DE UTNI. (WT)
6300 UNSW: KAPITAN BURMAKIN 0812 FEC W/TG'S IN RR. ENDED XMISSION IN CW. (WT)
6301.5 N/A: TKH Vitomir 2048 RTTY in 50/170 crew TG's to Odessa Radio. (RB)
6302.5 UZPF: TKH Parkhomenko 0627 RTTY in 50/170 RYRY/DE to UIW, & w/1 TG to same. EMNT: TKH Zhitomir 2146 RTTY in 50/170 RYRY/DE to UUI, & w/crew TG's to same, Odessa Radio. (ODS/RMP). ESBA: Unid 2255 RTTY in 50/170 RYRY/DE using sitor like 56793 ESBA K? at the end, no joy as no msgs were sent. (RB)
6303 UIIC: TR Bereg Mechty 1309 CW wkg unid coastal station w/tlx tfc. (RB)
6303.5 ELQZ5: TR Frost-1 2328 RTTY in 50/170 RYRY/DE to UIW, & w/2 crew TG's. (RB)
6304.2 UHBS: TKH Olenegorsk 2316 RTTY in 50/170 RYRY/DE to UAT, Moscow Radio, no joy. (RB)
6305.5 UYUY: TKH Georgiy Chicherin 2325 RTTY in 50/170 RYRY/DE to UUI. (RB)
6311 UNID: UNID 0418 ARQ IN OPR MODE CHATTING IN SS. LOGIN: 42049 ICAR. (WT)
6314.5 SAB301: Goteborg Coastal Radio 1311 ARQ idling (DG)

6329.5 VCT: CAN 1707 FEC Tors Cove radio hello all stations mgs (BvR)
6348 HWN: French Navy 0935 RTTY 75/800 Qra (RR2)
6380 Unid 0740 FAX 90 rpm. Bold black margins, but no details, transmission ended at 0756. "Spezial-Frequenzliste 1996/97" by Brannolte/Siebel lists Amderma Meteo, RUS, Callsign UPM. Other frequencies given for UPM are 4270 & 8463. I have never heard a fax signal on 6380 before, nor have I found this station in any other list. (KB)
6385 FUO: FN Toulon 1305 RTTY 75/150 testing (DG)
6435 Unid: Royal Navy Fleet Brod. 1815 VFT-BAU 100/0 Cripto (RR2)
6452.8 GYA 0230 FAX I believe may be GYA in London (although they're listed at 6452.5) (DD)
6460 UFZ: Vladivostok (ex-UKA), Russia 1530 RTTY 50/170 Msgs/RYs to UNSX. (JEB)
6461.5 FUM: FF Navy-Papeete, Tahiti 0522 RTTY 75/850 ZBZ/QSY, then RY test tape. (JEB)
6496.4 CFH: Halifax Meteo 0955 RTTY 75/800 Wx chiaro (RR2)
6750.5 LINK 11 activity (11/12 pulses) 2309 USB later in week as well. (JH)
6760.3 SOB: A.Bul Bucarest 1505 RTTY 75/500 Qra (RR2)
6761 1931 strong carrier, then into data transmission. Station unk. (JH)
6769 MFA Warsaw 1800 RTTY 100b new schedule & speed this circuit. (ANEE)
SNN299: MFA Warsaw 0610 RTTY 75/250 Msg Ing (RR2)
6774.1 A Alg. Tunisi 1220 COQ-8 26/30 Msg Fra (RR2)
6780.3 Unid: 0015 ARQ-E 72/425 idling. (RB)
6782 SNN299: MFA Warsaw 1145 POL-ARQ 100/200 Msg Pol (RR2)
6786 Unid: 1800 RTTY 50bd encrypted tfc 1800-1930 (ANEE)
6793.5 Unid: Egyptian MFA? 1550 FEC w/ATU-80 tfc "yvmkm skms kdfespr jg cfuw 0984 0984 0984 0984 0984 0984 0984 0984 0984 094 0984 0984 0984 0984 0984 0984 0984", ID? (DG)
6798 FDY: Faf Orleans 1545 RTTY 50/400 Test (RR2)
6817 MFA Bucharest, ROU 1700 RUM-FEC 164.48 1700-1930 new freq & schedule. (ANEE)
6818 Unid: 1425 FEC-A 192/400 Cripto (RR2)
6821 TN ? LOC 0001 RTTY 75/850 Marker w/long periods of letters shifts. Periodic "zczc TBDJ ry's figs test test test test bt nnnn". (DW) [yes, Turkish Navy, Istanbul -LOGS]
6824.3 AAT4TKY: Army MARS, Auburn, KY 2030 Packet w/"MARS EXERCISE" msg to AAA3USA, Ft. Meade, MD (RM)
6830 PETRA 1540 RTTY 50/400 Press Ara (RR2) Petra NX Amman 1612 RTTY 50/400 nx items (DG)
6835 GLF22: Bracknell Meteo 2155 RTTY 75/400 Wx (RR2)
6836.7 Unid: 2120 ARQ-E3 200/425 idle no id. (EW)
6845.7 Egyptian Embassy, Cairo 1715 ARQ wkg paris @1715-1830 (ANEE)
6862 WQL: Soud station 1530 RTTY 75/500 figs (DG)
6871.7 MFA Cairo 1715 ARQ wkg Paris ack circuit (ANEE)
6877.9 ETD3: Addis Abeba Air 2150 RTTY 50/500 Qra (RR2)
6881 Unid USN MARS USS George Washington UTC? PACTOR 200 (NNN0MUA-NNN0F) (ANEE)
6891.7 ICRC Geneva? 0730 PACKET 300bd (ANEE)
6901.5 Irish Army 0815 ARQ Irish Army callsigns 62 and 66 @0815. (ANEE)
6901.6 Unid: Unid 2100 FEC Msg (RR2)
6901.7 RFTJD: FF Dakar 0738 ARQ-E3 192/400 idling (DG)
6914.8 BAP46: XINHUA-Beijing, PRC 1520 RTTY 75/1000 Asian Nx. (JEB)
6915.5 Unid: 0110 PIC-6 20/20 Stand by (RR2)
6918.5 ECA7: Madrid Meteo, E 1620 FAX 120/576 wx chrt. (BvR)
6920 RGC70: Kiev Meteo 1435 RTTY 50/1000 Wx (RR2)
6923 OMV273: Unid 1100 RTTY 75/500 Qra (RR2)
6937 SRT52: A Pol. Vienna 1450 POL-ARQ 100/200 Idle (RR2)
6952 Unid: 1750 RS-ARQ 228/170 Undecoded (RR2)
6962.9 Unid: 1455 VFT/FEC-A 192/170 Cripto (RR2)
6963.8 UNID: 2308 ARQ-E 192/170 4CRC. Betas. Poor sync.. (DW)
6966 FDY: Faf Orleans 1535 RTTY 50/400 Test (RR2)
6972 YOJ59: Rompress 1535 RTTY 50/425 Press Fra (RR2)
6973.5 DGF97L2: Piab Bonn 0100 FEC-A 96/400 Press ted (RR2)
6976 MOI Ajaccio 0615 ARQ-E 192bd 0615-2030. (ANEE) FF AJACCIO [RFFCHA]? 0728 ARQ-E 192/170 8CRC. Betas.. (DW)
RFFHCA: FF Ajaccio 1440 ARQ-E 72/170 Idle (RR2)
6978.7 Unid 0700 ARQ-E3 48 rfqp? 0700-2115 new speed this ckt (ANEE) [should

be RFTJF Port Bouet, Ivory Coast in E3/48bd - LOGS]
6984 SNN229: MFA Warsaw 0745 POL-ARQ 100/170 Msg Pol (RR2)
6985 BSB29: Lanzhou Meteo 2127 RTTY 75/425 wx info (EW)
6992.6 ICRC Bern 1025 PACTOR-I MB1ATE-Mailbox, tests. (JJ2)
6999.5 Unid: 1605 PIC-12 20/20 Undecoded (RR2)
7314 Unid MFA Lisbon? 1430 ARQ selcall TPRC @1430 *have seen Twinplex here on 7313.85 @0900 previously (ANEE)
7350.7 A Alg. Cairo 1430 COQ-8 26/30 Msg Fra (RR2)
7397 RPFN: PM Lisbona 2150 RTTY 75/800 Cripto (RR2)
7403 FIT31: Tolosa Prefett. 1620 ARQ-E3 100/400 Idle (RR2)
7421.4 Dogana Algerina 1510 COQ-8 26/30 Msg Fra (RR2)
7441 Unid 1135 ?? 110/170 ENCRYPTED TEXT NOT ASCII. (EW)
7449.3 Unid: 0745 ARQ-E3 192 new freq (ANEE)
7449.5 MFA Rome 0730 ARQ wkg Malta. New freq this ckt. (ANEE) VQMF: Italian MFA 0817 ARQ diplo tfc (DG)
7453 RFFVAY: 0715 ARQ-M2 200 wkg RFFP. New freq this ckt (ANEE)
7456.7 RFTJ: 2000 ARQ-E3 192 idle 200-0915 (ANEE) [RFTJ= FF Dakar, SEN - LOGS] RFTJ: FF Dakar 0830 ARQ-E3 192/400 Cripto 5 (RR2)
7459.5 MFA Rome 0800 ARQ wkg unid embassy 0800-0830 (ANEE)
7471.7 Unid 1515 ARQ Msg Ing (RR2)
7512 ZRO2: PRETORIA MET, RSA 1700 RTTY 75/400 Met tfc. Appears to be GRIS. Poor copy due Radio Swiss Int. qrmon 7510. At 1907 w/Observations for S African continent. (DW)
7520 BZP57: Xinhua 0130 RTTY 75/425 Press Ing (RR2)
7524 TYE: COTONOU AIR 2256 ARQ-M2 96/400 4CRC. 2 chan. Betas. CH SVC in both channs at 2301z. Chan:A cct[UNA] to Niamey. Air tfc both channels - METAR. (DW) TYE: As. Cotonou 2245 ARQ-M2 96/400 Idle (RR2)
7525.6 Unid: Dogana Algerina 1500 COQ-8 26/30 Msg Fra (RR2) [Ary sez Algerian Customs Alger, dogana = customs -LOGS]
7537.7 MFA Cairo 1730 ARQ (special security) wkg consulate Hamburg 1730-1830 (ANEE) Unid 1753 ARQ Unid Egy diplo? (BvR)
7564.5 YIX75: INA NX Baghdad 1751 RTTY 50/400 nx items (DG)
7585.7 RFVITT?: Dzaoudzi, Mayotte Isl? 0052 ARQ-E 96/425 idling. (RB)
7586 RFVITT: MYT 1719 ARQ-E 96 FF Dzaoudzi, idling (no id). (BvR) FF DZAOUDZI [RVITT] 2313 ARQ-E 96/400 4crc. Betas. Intermittent sync. (DW) RFVITT: FF Dzaoudzi 2240 ARQ-E 96/400 Idle (RR2)
7595.8 Unid: 1431 RTTY 50/170 Unid coded mgs (BvR)
7598.5 IEA20: Italian Army, Rome 1400 RTTY 50bd @1400-1500 (ANEE)
7606.7 Unid: 1645 ARQ-E3 100 this ckt normally 192bd (ANEE) [RFFA MOD Paris logged here before in 100 baud & see next log -LOGS] RFHI: FF Noumea, New Cal 1133 ARQ-E3 100b msg to RFFAAW. (EW)
7614 MFA Teheran 1530 HC-ARQ 240bd (ANEE)
FF MARSEILLES [RFFH] ? 1030 ARQ-E 192/170 8CRC. Betas. Same at 1053, 1151, & 1605. fading. (DW)
RFFH: FF Marsiglia 1440 ARQ-E 72/200 Idle (RR2)
7616.7 MFA Cairo 1530 ARQ wkg Abu Dhabi 1530-1630 (ANEE)
7620 Unid: 0815 ITA2 100 encrypted tfc (ANEE)
7622 MFA Warsaw 0815 ARQ-POL 100 (ANEE) MFA WARSAW (SNN299) 1128 ARQ-POL 100/250 4CRC. Tfc in offline encrypt (5FG's). Wkg Vienna (Weiden). Sends qsl. file and offair. (DW)
7625 HZN47: Jeddah Meteo, ARS 1917 RTTY 100b wx. (BvR) JEDDAH MET (HZN47) 1824 RTTY 100/850 Met tfc. 120hz high. (DW) HZN47: Jeddah Meteo, ARS 2353 RTTY 100/425 w/meteo reports. (RB) HZN47: Jeddah Meteo 0805 RTTY 100/800 Wx (RR2)
7631.7 MFA CAIRO 1341 ARQ Selcals TVXV - clg Doha (?) Embassy. Tfc in ATU80 then into irs mode. (DW)
7634 RFGW: MFA Paris 1757 FEC-A 192/400 5FGs (DG)
PZ6: MFA Paris 1700 FEC-A 192/400 Qra (RR2)
7639.2 UNID: 1509 FEC 1510z 50bd reversals then msg "-4 10 10 10 26 26 26-15h10m54s -- 7j 7j --" and offair. Next msg 1521z (weak/corrupt) " 0 0 0 10e 10 10 10 30 30 30 ..... 7j 7j". (DW) [these 'time strings' were discussed in WUN #12, a French Government station near Paris -LOGS] Unid: 1100 FEC Cripto (RR2)
7642.7 RFFA: 0515 ARQ-M2 200bd To RFFA from RFFTA 0515-1915 (ANEE)
RFFP: Mod Paris 1250 ARQ-M2 200/400 Msg Fra (RR2)
7643.3 RFLIG: FF CAYENNE 2347 ARQ-E3 192/400 8CRC. Betas. Cct [RTI]. 2351z Controle de voie svc RFLI de RFLI. (DW)
7646 DDH7: HAMBURG MET 1107 RTTY 50/425 Met traffic. Same at 1525 w/Storm

& gale warnings in German for N Sea followed by warning in EE then obs (AAXX) for Icelandic & Irish stations. (DW) DDH7: Hamburg Meteo 1250 RTTY 50/400 Wx (RR2)
7650 BZR67: XINHUA BEIJING, CHN 1850 RTTY 75/400 Press in EE. (DW)
BZR67: Xinhua 2020 RTTY 75/400 Press Ing (RR2)
7653.7 MFA Cairo 1730 ARQ w/circular 1730-1845 Klingenfuss calls this MFA Berne, but it is not! (ANEE)
7658 YZI223: TANJUG BELGRADE 1144 RTTY 50/400 Press in EE. (DW)
YZD: Tanjug 1100 RTTY 50/400 Press Ing (RR2)
7659 HBD23: MFA Berna 1245 ARQ Msg Ted (RR2)
7670 RCC76: MOSCOW METEO 1118 FAX 90/576/N/800 Hvy qrm fm bdcst stn. Weak outlines. Same at 1259 w/Landward chart. Little met detail. (DW)
7674 HBD58: A Sve. Roma 1100 ARQ Cripto 5 (RR2)
7678.5 HBD20: Berne Switzerland 1600 ARQ Swiss Diplo 5FG to Budapest Embassy (selcal SPMO). (AB3) Unid: 1418 ARQ Unid Sui diplo? irs mode (BvR)
7680 RN LONDON (GXQ) 1900 VFT 8 channel DCN vft on USB. (DW)
7680.5 RN LONDON (GXQ) 1902 RTTY 50/340 7680.595 Ch.1 in vft. Eng chan. Idle on mark. (DW)
7680.7 RN LONDON (GXQ) 1905 RTTY 50/340 7680.765 Ch2 in vft. Idle on space. (DW)
7681.1 RN LONDON (GXQ) 1908 RTTY 50/340 7681.275 Ch3 in vft. "RYI's qbf figs & Test de GXQ". (DW)
7681.4 RN LONDON (GXQ) 1913 RTTY 50/340 7681.445 Ch4 in vft. "RYI's qbf figs & Test de GXQ". (DW)
7681.9 RN LONDON (GXQ) 1915 RTTY 50/340 7681.955 Ch5 in vft. "RYI's qbf figs & Test de GXQ". (DW)
7682.1 RN LONDON (GXQ) 1917 RTTY 50/340 7682.125 Ch6 in vft. "RYI's qbf figs & Test de GXQ". (DW)
7682.6 RN LONDON (GXQ) 1920 -? 7682.635. Ch7 in vft. Idle on mark. (DW)
7682.8 RN LONDON (GXQ) 1923 RTTY 50/340 7682.805. Ch8 in vft. "RYI's qbf figs & Test de GXQ". (DW)
7685 RBV75: MOSCOW MET 1450 RTTY 50/1000 Met tfc. TTAA's. (DW)
RUB75: Moscow Meteo 1300 RTTY 50/400 Wx (RR2)
7693 3BT3: VACOAS MET 0030 RTTY 75/850 Met tfc. (DW)
7707 Unid: 1759 RTTY 75 Unid cont. (BvR)
7726.7 MFA Cairo 1530 ARQ tfc fm Abu Dhabi 1530-1630. (ANEE)
7760 RGH77: Arkhangels. Met 1310 RTTY 50/850 Qra (RR2)
7766 SNN229 : MFA Warsaw 1430 POL-ARQ 100/200 Msg Ing (RR2)
7776.5 OST33: Ostende R. 1700 FEC Msg (RR2)
7784 KAWN: Carswell AFB, TX 2157 RTTY 75 wx info (EW) [Carswell AFB closed some time ago, see next log for ID -LOGS] AFS: Offutt AFB, Elk Horn, NE 1404 RTTY 75/850 w/KAWN wx data. (RM)
7801 9BC22: Irna 1530 RTTY 50/400 Press Ing (RR2)
7805 Unid: 1210 FEC-A 144/400 Qsl (RR2) [Ary sez probably MFA Belgrade -LOGS]
7806 MFA Belgrade, YUG 2240 RTTY 50/425 news in EE. (EW)
YZD7: Tanjug 1700 RTTY 50/400 Qra (RR2) [Ary sez should be Tanjug -LOGS]
7807 Unid: 1745 RS-ARQ 228/170 Undecoded (RR2)
7808 DFZG: MFA Belgrado 1430 RTTY 75/400 Qra Msg (RR2)
7813.4 Dog Alg Ouargla 0840 COQ-8 26/30 Msg Fra (RR2) [Ary sez also Algerian Customs -LOGS]
7820.5 Unid: 1610 PIC-12 20/20 Undecoded (RR2)
7823.7 MFA Cairo 1530 ARQ To Cairo from Tunis. (ANEE)
7834.5 5ST: ASECNA Antananarivo, MDG 1729 ARQ-E3 48 idling (no id). (BvR)
5ST: ASECNA Antananarivo 2230 ARQ-E3 48/400 Idle (RR2)
7840 RFFBBWM: FF Avant 2225 ARQ-E 72/400 Idle (RR2)
7842.4 CNM20: Map 1110 RTTY 50/425 Press Fra (RR2) CNM20.1X: MAP Rabat, MRC 1747 RTTY 50b FF nx. (BvR)
7843.5 5ST: ASECNA Antananarivo 2130 ARQ-E3 48/250 Idle (RR2)
7845.1 KHABAROVSK MET 0758 FAX 120/576/N/800 Land area in Russian style. Next chart polar projection 500mb w/RUHB in label. Charts logged so far for 0720/0740/0800/0850 all 120rpm. New chart 0915 faded sounds like 60rpm. (DW)
7855 ROK24: Moscow Meteo 2040 RTTY 50/1000 Wx (RR2)
7863.5 SPW: Warsaw R. 1410 FEC Msg Ing (RR2)
7869.5 Unid: 2035 UNID 125/170 Undecoded (RR2)
7872.3 Unid: Poss. Russian wx 1434 FAX 120/576 wx FAX (DG)

7880 DDK3: Hamburg Meteo, GER 2143 FAX 120/576 wx map (EW)
7892.5 OEC: MFA Vienna 1350 ARQ-S 96/170 Msg Ted (RR2)
7898 MOD Bonn UTC? ARQ-E 72bd wkg German IFOR contingent, mostar. (ANEE)
BGS Bonn 1233 ARQ-E 72/85 idling (DG)
7900 9VF39: Piab Singapore 1745 FEC-A 96/400 Press Ted (RR2)
7902 FIT75: Moi Paris 1100 ARQ-E3 100/400 Idle (RR2)
7915 AFA3VP: 1342 Pactor USAF MARS sta. w/chitchat (RM)
7916 DGG91L2 : Piab Bonn 0745 FEC-A 96/400 Press Ted (RR2)
7919 PIAB Bonn 0020 FEC-A 96/400 Press Ted (RR2)
7931.7 MFA Cairo 1745 ARQ tfc 1745-1900 (ANEE)
7937.7 RFFP: MOD Paris, F 2139 ARQ-E3 200/425 idle (EW)
7946 RFVI: FF Le Port 2220 ARQ-E 96/400 Idle (RR2)
7946.5 DHJ51: Grengel Meteo 1300 RTTY 100/400 Wx (RR2)
7959 9BC: IRNA Teheran, Iran 2217 RTTY 50/425 EE nx. (EW) 9BC23: Irna 1740
RTTY 50/400 Press Ing (RR2)
7960 OMZ: MFA Prague 0845 RTTY 100/400 Msg Cec (RR2)
7975 SOH297: Pap Warsaw 1405 FEC Msg Pol (RR2)
7982 Unid: 2338 ARQ 2338-0030 u/i on/off/on/off...; 0255-0305 ARQ idles;
0315-0345 ARQ idles (RM)
7982.1 Unid: 1400 IRA-ARQ 300/170 Undecoded (RR2)
7991.5 NNN0FTJ: Navmarcormars 1336 Pactor w/msgs (RM)
7996 YZD9: Tanjug 1850 RTTY 50/400 Press Ing (RR2)
8004 Unid: 1300 PIC-12 20/20 Undecoded (RR2)
8006 OMZ: MFA Prague 1000 RTTY 100/400 Msg Sla (RR2)
8010.7 A Alg. Rabat 2145 COQ-8 16/30 Press Fra (RR2)
8020 HMF52: KCNA 1800 RTTY 50/250 Press ing, same at 1830. (RR2)
8023 MFA Bucarest 1400 ROU-FEC 164/400 Cripto (RR2)
8025 Mossad 1645 USB numbers (ANEE) [probably Mossad CIO2 - LOGS]
8026.5 Egyptian Embassy 0558 ARQ 100/425 ATU-80 tfc. At 2332, sending
selcall BRTV. (RB)
8026.7 Unid: 1700 ARQ Cripto 5 (RR2)
8028 SNG202: MFA Bucarest 1245 ROU-FEC 164/400 Msg Ing/Ru (RR2)
8031 RFFXL: FF Naquora 2030 ARQ-E 72/400 Idle (RR2)
8049 9BC: IRNA Teheran, Iran 2211 RTTY 50/425 EE nx. (EW) 9BC25: Irna 2135
RTTY 50/425 Press Ing (RR2)
8056.7 Unid: 1807 ARQ Unid Atu A tfc Egy diplo? (BvR)
8071.5 Unid: 1740 RS-ARQ 228/170 Undecoded (RR2)
8080 NAM: USN Norfolk, US 2136 FAX w (EW). [station relocated to NAA, USN
Cutler, Ma -LOGS]
8084 Unid: 1430 ROU-FEC 218/400 Msg Rum (RR2) [Ary sez Romanian Embassy
Vienna -LOGS]
8090 DOR: MFA Sofia 0020 RTTY 75/400 Msg Bul (RR2)
8094.5 Unid: 2135 PIC-12 20/20 Undecoded (RR2)
8099.3 DOR: MFA Sofia 1335 RTTY 150/500 Press Ing (RR2)
8105 Unid: 2133 ARQ-E 192/425 idle no id (EW)
RFFX: Mod Paris 2250 ARQ-E 72/450 Idle (RR2)
8122 Unid: 1030 RTTY 75/400 Cripto (RR2)
8123 TNL: As. Brazzaville 2310 ARQ-M2 96/350 Wx (RR2)
8134.2 SNN299: MFA Warsaw 0850 POL-ARQ 100/250 Msg Pol (RR2)
8137 BAE51: Beijing China 1510 RTTY 50/830 Xinhua News (AB3)
8142 Mossad numbers 0700 USB all in Hebrew. (ANEE)
8142.6 FDY: FAF Orleans, F 0800 RTTY 50bd w/fdy test tape (ANEE)
8146.6 IMB55: ROME MET 1205 FAX 120/576/N/800 Sea state. Chart of Italy w/
plotted obs & isobars. (DW)
8150.5 PBB: DN Den Helder 0940 RTTY 75/850 Com Canali (RR2)
8154 SNN299: MFA Warsaw 0610 RTTY 75/250 Msg Ing (RR2)
8156 Unid: 1403 POL-ARQ Unid Pol Diplo pol mgs (BvR) [MFA Warsaw -LOGS]
SNN299: MFA Warsaw 1000 POL-ARQ 100/250 Msg Pol (RR2)
8165 5YD: Nairobi Air 2215 RTTY 50/200 Qra (RR2)
8166 SNN229: MFA Warsaw 0830 POL-ARQ 100/250 Msg Pol (RR2)
8180.5 MFA Roma 0730 ARQ Cripto 5 (RR2)
8186.4 Unid: 0800 PACTOR 200bd poss msf link between Lyon & Zagreb/Sarajevo.
Selcalls Els & Lyon. (ANEE)
8192 9MR: Penang Malaysia 1520 RTTY 50/850 RY/SG Tape (AB3)
8192.7 Unid: A Ita. ? 1100 ARQ-E 96/170 Cripto 5 (RR2)
8303 LOR: Argentine Navy, Puerto Belgrano, ARG 0027 RTTY 75/170 w/RYRY, DE
& w/5LG's to unid. At 0625 w/"Lista general de radioavisos" NavAids
b/cast. (RB)

8340 G3F61: 1745 ARQ Unid clg MPKV "any mgs pls +?" At 1847, unid tlx to Dynacom Athens ops & tech department. 235: 1723 ARQ Unid relay mgs for 222 to MPKV. G3F52: 1727 ARQ M/T Tom mgs to MPKV. G3F61: 1945 ARQ Unid clg MPKV eta Lawi Lawi 27 jan pos 15.49s 010.54e. G1F11: 1425 ARQ M/V Athos pos 36.51n 022.23e eta Mersin 9 jan. 424: 1520 ARQ Unid sc MPKV. (BvR)
8377.5 UVEQ: TKH Suzdal' 2350 ARQ w/crew TG's to Odessa (ODS/UMF). (RB) 5BUF: M/V JODIE D. 0122 ARQ W/TLX'S TO: PACE CHARTNG. LOGIN: 00574 5BUF. WSVR: SS DENALI 2116 ARQ W/TLX TO KEYSHIP. 2621N 11513W. 10872 WSVR. WSRH: SS KAUAI 2158 ARQ RX ONLY LOGIN: 11330 WSRH. (WT)
8378.5 LAEF4: Bona Fortuna 0346 ARQ Oil/Bulk oil carrier, w/posn report to Bona Oslo, 2718N/8539W, login 34333 LAEF. (RB)
8379 P3LT5: M/V Velos 0417 ARQ sending selcall XVSV, for WLO Mobile Radio, then w/tlx in unid language. (RB) USPK: M/V STARY BOLSHEVIK 0625 ARQ W/TLX TO: GLOBAL MGMT, NEW ORLEANS. LOGIN: 55593 USPK. N/A: BOTANY TRADER 0832 ARQ W/TLX TO BOTANY SYDNEY. (WT)
8379.5 PPEJ: M/V Frotario 0243 ARQ w/SS tlx, login 58421 PPEJ. (RB) WLBX: LAWRENCE H. GIANELLA 1819 ARQ w/MOVREP, ETA SFO, LOGIN: 11646 GIAN. (WT)
8380.5 ELQI9: Imari 0419 ARQ w/Chilrep (AMVER) to Directmar Valpariso. ELPC2: CCNI Austral 0540 ARQ wkg CBV w/"QRJ 819", login is selcall+ "CCNI" often mistaken for a c/s. (RB)
8381 WOVL: SS Overseas Alice 1630 ARQ U.S. flag tanker, w/AMVER tfc. VTRG: M/V Prabhudas 2322 ARQ w/tlx in SS (RB) N/A: M/V ERATI 2340 ARQ w/tlx, LOGIN: 24810 ERAT. (WT) [c/s is ELRL8 -LOGS]
8381.5 7THK: SS Larbi Ben Mihidi 0643 ARQ w/tlx tfc. YLBA: TKH Pavel Parenago 0736 ARQ w/admin msgs to Riga Radio. YLBB: MK Vasiliys Struve 2210 ARQ w/"OBS-1" wx observation. YLCQ: TKH Pure 2236 ARQ w/"POSN+" tfc, 3611N/6821W, for Riga Radio. P3CR6: TH Akademikis Zavaritskis 2343 ARQ w/crew TG's to Riga Radio. (RB) DUCT: EURASIAN CHARM 0731 ARQ WKG JCS, CHOSHI R. JA. LOGIN: 76768 DUCT. YLAO: M/V MIKHAILS LOMONOSOVS 0048 ARQ W/TGS. (WT)
8382.5 UWTB: TKH Akademik Guber 0546 ARQ w/crew TG's after sending selcall KCPV, Mariopol Radio. UWLY: TKH Avdeevka 2227 ARQ w/posn, 2313N/ 05009W, after sending selcall KCPV for Mariopol Radio, login 55162 UWLY. (RB) TXCS: M/V MARINE EXPRESS 1810 ARQ w/AMVER, ETA Tacoma, LOGIN: 29105 TXCS. 3FDB4: HARMONY 2006 ARQ w/AMVER/PR, 4235N 12740W. LOGIN: 42484 3FDB4. WFQE: SS B.T. ALASKA 2240 ARQ RX only, LOGIN: 10909 WFQE. ELBG9: M/T CARLA A. HILLS 0113 ARQ W/WX OBS BBXX. LOGIN: 636007060 HILLS. ELEV8: LIRCAY 0721 ARQ W/WX OBS,BBXX. LOGIN: 24887 ELEV. ELNV2: SEVASTAKI 1545 ARQ CHKIN QRU. LOGIN: 24355 ELNV2. P3WC4: M/V TOMASOS 2021 ARQ W/TLX TO HANJINSHIP. 2308N 11111W. LOGIN: 56142 P3WC4. (WT)
8384 DIDT: M/V Deppe Florida 1315 ARQ container ship, w/AMVER/PR. DUJW: M/V Sapphire 1746 ARQ w/tlx tfc. 7TGE: LPG/C Mostefa Ben Boulaio 2349 ARQ w/FF tlx to Massan Nola. (RB)
8384.5 C4IO: M/V Frio Atlantic 0457 ARQ w/tlx to report arrived Cristobal. C4ST: M/V Seastar II 0634 ARQ w/tlx re arrived Cienfuegos Roads to load 27400 MT of sugar. (RB)
8386 WSLH: SS MAUI 1630 ARQ W/MSG TO PLEAD CTL. WKG NMC. 9HKT4: M/V IOANNITSA 2139 ARQ W/MSG TO PLEAD CTL FOR TRANSIT PMR. LOGIN: 24270 IOANNITSA. (WT)
8386.5 UTUN: AKADEMIK IOSEF ORBELI 0107 ARQ W/TLX IN RR LOGIN: 55207 UTUN. (WT)
8387 ELPG7: M/V ALBERTO TOPIC 0022 ARQ w/tlx to Monte Carlo. ELEV8: LIRCAY 0655 ARQ w/tlx +BBXX, LOGIN: 24887 ELEV. SZNU: M/V TRIDENT MARINER 0123 ARQ W/TLX TO HANJIN, PUSAN, SEOUL. WKG KPH. 4752N 13754W. P3LT5: M/V VELOS 0753 ARQ W/TLX'S LOGIN: 00598 P3LT5. (WT)
8388 VRUJ: M/V Encourager 0609 ARQ w/login for msg ck. (RB)
8388.5 C6LP4: TR Prince of Wales 2336 ARQ w/tlx tfc, vsl bound Bermuda to Newport, RI. (RB)
8388.6 5AF: Tripoli Air 1415 RTTY 100/400 Qra (RR2)
8389.5 LAII2: M/V Dyvi Adriatic 1540 ARQ w/load report tlx, login 26895 LAII2. (RB) 3FDQ3: LA BONITA 2354 ARQ W/AMVER/PR ETA CALLAO. ELCO5: MT CHEVRON PACIFIC 0519 ARQ W/WX OBS BBXX. LOGIN 636007328 PAC. (WT)
8390 BPCM: M/T DA QING 0730 ARQ W/TLX TO PAN OCEANIC. AWAITING TIDE SHANGHAI. P3UA3: M/V ADRIATIC 0132 ARQ W/TLX TO PEABODY & LANE. YQEP: M/V BIRLAD 0549 ARQ W/TLX TO H.S.T. CO. LTD.,CONSTANTA. LOGIN: 29123

YQEP. N/A: M/V YONG AN CHENG?? 0723 ARQ W/TLX TO SHANGHAI IN 4F GPS. BOBQ: M/V FU AN CHENG 0758 ARQ W/TLX LOGIN: 19811 FACH. (WT)
8391 UKVD: TKH Novokubyshevsk 2230 RTTY in 50/170 RYRY/DE to "RKB", & into admin tfc from master, KM Perekin to St Petersburg Radio. (RB)
8391.5 USDU: TKH Vasya Korbk 0620 ARQ in admin tlx tfc from master, KM Emidov. UNSW: TKH Kapitan Bukmakin 0620 ARQ w/DISP-2 report to Arkhangelsk Radio showing vsl at Panama Canal. (RB)
8392 C6CP: M/S VIKING SERENADE 0112 ARQ W/TLX, LOGIN W/SELCALL ONLY 61519 (WT)
8392.5 9HMJ3: TK Novomir-2 0420 ARQ flagged-out Russian tanker w/DISP-1 report to Novorossiysk Radio. P3RH3: TKH Kapitan Pomerants 0437 ARQ w/crew TG's (another flagged out vsl). UJTT: TKH Khudozhnik Kustodiev 0519 ARQ w/crew TG's. UNNX: TKH Gorno-Altask 0520 ARQ general cargo vsl w/crew TG's (VLD/MMF). USLG: TKH Cherkassy 1450 ARQ w/crew TG's via UAT, Moscow Radio. UKYV: TKH Boris Livanov 2032 ARQ w/NVRTLG crew TG tfc. URUS: TK Boris Butoma 2351 ARQ w/admin msg & crew TG's. (RB)
8393 UNID: 1842 ARQ WKG QVXV = 2010 = ?. IN OPR MODE QRU. LOGIN: 19806 PUHE. (WT)
8393.5 URDO: BATM Ivan Golubets 0648 RTTY in 50/170 crew TG's to Sevastopol Radio. (RB)
8394 OWDM2: Seaboard Arrow 0410 ARQ w/AMVER tlx. C6DJ3: M/V Bongo Danielson 0531 ARQ w/berthing & departure rpt. 3EBN5: M/V Contrader 1250 ARQ w/tlx for ETA to Rio Haina w/28904 MT of cargo, login 41942 3EBN5. P3SR6: M/V Saint Nectarious 2317 ARQ w/ETA Havana, Cuba. (RB)
8396 URCK: UPS Kurs 1904 RTTY in 50/170 RYRY/DE to URL, then w/admin msgs from master, c/s was ESHY. EOYW: RTMS Arabat 1956 RTTY in 50/170 crew TG tfc to Kerch Radio. (RB)
8396.5 UCVK: UPS Kruzhenshtern 0318 RTTY in 50/170 crew TG's to K-Grad. (RB)
8397.5 UWMJ: BMRT Yashma 2302 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's. (RB)
8398 UIJR: TKH Khudozhnik Fedorov 2230 RTTY -ky, bulk carrier in 50/170 crew TG's (VLD/MMF). (RB)
8398.5 C6KF4: M/V Winter Sun 0208 ARQ w/tlx tfc. UQTD: BKRT Nataliya Kovova 0254 RTTY in 50/170 RYRY/DE to URL, Sevastopol Radio, & w/"Atlantik" wx report. 3EPO5: M/V Bolero 2014 ARQ w/tlx for ETA Las Palmas. (RB)
8399.5 N/A: BMRT Kozenevkov 0004 RTTY in 50/170 RYRY/DE to UIW, & w/crew TG's. UVLM: TH Syktyvkar 0751 RTTY in 50/170 RYRY/DE to UUI, into DISP-1 reports. J8IR8: BMRT Pletval 0818 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's via same, note this is a flagged-out Russian factory fishing trawler. EVBD: RTMA Dionis 1738 RTTY in 50/170 RYRY/DE to UIW, & into admin tfc from master, KM Fedorenko listing hull info KW-7241. (KLD/UTF). UDTB: TK Islam Safarli 2011 RTTY in 50/170 RYRY/DE, no joy, is CASCO tanker, ex-Mirzo Tursun-Zade. UYTB: RTMKS Rybak-1 2112 RTTY in 50/170 RYRY/DE to UIW, & into admin msgs from master KMD Solov'el. UEXI: RTMA Il'men' 2307 RTTY in 50/170 crew TG's to K-Grad. UIIC: TR Bereg Mechty 2339 RTTY 50/170 13051 DWT factort refridge. trawler w/admin RR msgs. UIMH: TR Tambov 2340 RTTY in 50/170 RYRY/DE to UIW, no joy. (RB)
8400 Unid: 1819 ARQ Unid sc cqst (36290) and cqfa (36289) & FF mgs (BvR) [selcall 36290 is M/V Sombere, c/s LXSA -LOGS]
8400.5 UWOA: BMRT Tsemesskaya Bukhata 2123 RTTY in 50/170 RYRY/DE to UGW, Novorossiysk Radio, & into crew TG's. (NVR/KRH). UOMP: TSM Olustvare 2337 RTTY in 50/170 crew TG's to K-Grad (KLD/UTF). (RB)
8401.5 UWEC: NISP Professor Khromov 0020 RTTY in 50/170 admin msgs from master, KM Kiselev. UNNI: RTMS Chernyashev 1821 RTTY in 50/170 list of supplies/medicines needed next port. ELSK3: TKH Deputat Lutskiy 1928 RTTY in 50/170 RYRY/DE to UUI, & w/crew TG's. UTZF: TKH Suets 2121 RTTY in 50/170 admin msgs from master, KM Rudenko. (ODS/UDF). UURS: TKH Ukraina 2137 RTTY in 50/170 crew TG's to Odessa Radio. USFB: TKH Nina Kukoverova 2238 RTTY in 50/170 crew TG's. (ODS/UMF). (RB)
8402.5 ENHY: TKH Timofeevsk 1936 RTTY in 50/170 RYRY/DE to URL, & w/crew TG's (SVS/MRH). EONO: BMRT Sheremetevo 2032 RTTY in 50/170 crew TG's to Murmansk Radio, using hull ID of MB-364. UALU: NIS Atlantida 2339 RTTY in 50/170 5LG TG's. (KLD/KRH). 3FKX4: TR Ref Star 2350 RTTY in 50/170 RYRY/DE to UIW, & w/crew TG's to same. (RB)
8402.7 UTOB: TKH Aleksandr Tsyurupa 2017 RTTY in 50/170 admin tfc from master KM Kravats, vsl bound for Brazil. (RB)

8403 URIF: BATM Aleksey Slobodchikov 0459 RTTY in 50/170 crew TG's to Sevastopol, ex-UQFN. UQYR: TR Bukhta Omega 0510 RTTY in 50/170 RR tfc Sevastopol Radio, long list of maintence/mechanic work from Chief Engineer. UIDS: TSM Ozernitsa 1914 RTTY in 50/170 tfc to Murmansk Meteo (pogoda, or wx report) from master KM Branchenkov. UOUV: TKH Novodruzhsk 2336 RTTY in 50/170 crew TG's. (RB)
8403.5 UIMY: RTMA Peredovik 0528 RTTY in 50/170 RR crew TG's to Sevastopol. URPK: TKH German Matern 1921 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's. (VLD/VTF). ELQZ5: TR Frost-1 2059 RTTY in 50/170 RYRY/DE to UIW, & w/crew TG's. URPO: TKH Sochi 2224 RTTY in 50/170 RYRY/DE to UUI, no joy. ESMV: RTMS Sekstant 2252 RTTY in 50/170 RYRY/DE to UIW, no joy, this is Ex-Sekstan, LYDZ. UHUZ: RTMA Nikolay Brovtsev 2258 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's. (KLD/UTF). UWKI: TSM Karacharovo 2316 RTTY in 50/170 crew TG's to K-grad. (RB)
8404 P3FZ6: TR Motovskiy Zaliv 0013 RTTY in 50/170 RYRY/DE to UAT, sends "pagoda", or wx report from master KMD Kruchinin. UUPP: RTMS Biosfera 2106 RTTY in 50/170 RYRY/DE to URL, & into crew TG's to same, this is ex-UQTQ. UYKO: TN Inkerman 2112 RTTY in 50/170 RYRY/DE to URL, & w/admin TG from master, KM Merenko. (RB)
8404.5 UAKA: NIS Professor Molchanov 0051 RTTY in 50/170 RYRY/DE to UHY7(?), & into tfc to Morflot, this is ex-UUKR. URUJ: PB Matochkin Shar 2233 RTTY in 50/170 RYRY/DE to UUI, & w/several RR wx reports (MRM/KRH), PB is Plavuchaya Baza, or 'Floating Base'. (RB)
8406 UCBZ: BMRT Atoll 1926 RTTY in 50/170 crew TG's to Novorossiysk Radio. (NVR/MRH). (RB)
8406.1 LYDG: M/V Kelme 2027 RTTY in 50/170 RYRY/DE to LYK, gives posn 4828N/0540W. (RB)
8406.5 LYFQ: RTMS Venta Zhenta 2013 RTTY in 50/170 RYRY/DE to LYL, Klaipeda rdo, & w/admin msgs using hull#/ID DZTS-7542. (RB)
8407 UBVU: TKH Komsomolets Spassk 2057 RTTY general cargo vsl of Vadok Moreflot (MRF) Russia in 50/170 w/crew TG's. (RB) UVJA: KAPITAN BOGOMOLOV 0743 RTTY 50/170 W/TG'S IN RR. (WT)
8408 4630: GRC 1710 ARQ Unid tlx tfc to Mt Leni qsx 8340 (BvR)
8408.5 UBRJ: TKH Ul'banskiy Zaliv 2238 RTTY in 50/170 RYRY/DE to UIW, & w/admin tfc to Vladivostok Vostmaransflot (VTF), fol by 20106 report. YLGC: TR Beringa Sala 2327 RTTY in 50/170 crew TG's to Riga Radio. (RB)
8411 UUUT: RTMKS Ivan Burmistrov 1920 RTTY in 50/170 crew TG's to Kerch Radio. UUTJ: TKH Krasnovodskiy 2032 RTTY in 50/170 admin msgs to Odessa from master, KM Demin. (RB)
8411.5 UVKG: RTMS Stratosfera 2057 RTTY in 50/170 crew TG's to Sevastopol Radio (SVS/MRH). (RB)
8412 N/A: RTMS Leysk 1907 ARQ w/admin tlx from master, KMD Rastyagael (NVR/MRH). UFEL: RTMS Nikifor Pavlov 2129 RTTY in 50/170 crew TG's to Novorossiysk Radio. (NVR/KRH) (RB)
8412.5 EOPA: TR Lazurnyy Bereg 2036 RTTY in 50/170 RYRY/DE to UIW, & into admin msgs (KLD/RTF). ESMD: RTMS Lembit Pern 2047 RTTY in 50/170 tlx to Morocco w/monthly catch report via Tallinn Radio using hull#/ID RTMS 7535. (RB)
8413 UACU: TKH Varnemunde 0342 ARQ w/crew TG's to UGC. UQRT: TKH Il'ya Ul'yanov 0736 ARQ w/admin tfc via UGC, St Petersburg Radio. UTIZ: TKH Novogorod 0755 ARQ in crew TG's to UGC. UYOQ: TKH Rostov 0820 ARQ w/"QTH" report to UGC. UTUN: TKH Akademik Iosif Orbli 0831 ARQ w/1 adm msg to UGC. UWUA: TKH Novozybkov 0840 ARQ w/1 admin msg to UGC. UGNX: TKH Komsomolets Litvy 0846 ARQ w/admin tfc to UGC, vsl uses abbrev. KSM for Komsomolets. UWNV: TKH Inzhener Machulski 0855 ARQ w/crew TG tfc to UGC. EKMN: TKH Mekhanik Evgrafov 0910 ARQ w/1 crew TG to UGC. UFJK: TKH Novosibirsk 0930 ARQ w/login for msgs fm UGC. UDVO: TKH Evgeniy Mravinskiy 1102 ARQ w/crew TG's to St Petersburg rdo. (RB) Unid: 2330 ARQ msg in Dutch about rental apt. in Holland. (LB)
8414 UOIM: Unid 2329 RTTY in 50/170 RYRY, no joy. (RB)
8417.5 KFS: San Francisco, CA 0453 FEC w/E. Pacific wx. (JEB)
8424 SVA: Athens Radio, GRC 0622 ARQ Athens radio tfc lst (BvR)
SVU4: Atene R.ENE 1310 FEC Msg Gre (RR2)
8425.5 WNU: Slidell Radio, La, US 1256 FEC w/tfc list on Ch.819. (RB)
8428.5 Unid: 2325 ARQ "BCKX BCKX..." (LB)
8432 UDH: Riga R. 1750 ARQ Msg (RR2) [now YLQ -LOGS]

8478 FUF: FF Navy - Fort de France, Martinique 0449 RTTY 75/850 RYs/SGs/QWERTY test tape. (JEB)
8502 Unid: 0025 FAX upside down wx map of S.Eastern US and Gulf of Mexico (LB) (USCG, NMG, CommSta New Orleans, La, US -LOGS]
8509 RFFX: Mod Paris 2300 ARQ-E 72/400 Idle (RR2)
8625 FUM: FF Navy-Papeete, Tahiti 0522 RTTY 75/850 RY's. (JEB)
8672.8 MTO: RN Rosyth 1445 RTTY 75/850 Com Canali (RR2)
8677.5 UGC: St. Petersburg Radio, RUS 0949 ARQ Maritime tfc (DG)
9041 5YE: Nairobi Meteo 2210 RTTY 100/800 Qra (RR2)
9046.2 Unid Abuja-Lagos-Kano, Nigeria 0700 PACTOR 200 airports/air force net? or is it UNO at the airports? complete flight plans sent by Abuja station (ANEE)
9049 Unid: 1330 RTTY 75/600 Cripto (RR2)
9051.4 HGX21: MFA Budapest 1600 DUP-ARQ 125/170 Idle (RR2)
9057 DFZG: MFA Belgrado 1400 RTTY 75/400 Press Ing (RR2)
9058.7 Unid Russian Forces 1400 QPSK 1280/800 ID by CODE-30 (DG)
9060 Unid: 2130 RTTY 75/500 Cripto (RR2)
9062 Unid: 1310 RS-ARQ 228/170 Undecoded (RR2)
9063 RFGW: MFA Paris 1030 FEC-A 192/400 Cripto 5 (RR2)
9067 Unid: 1735 VFT 0/0 Cripto (RR2)
9087.5 MFA Rome, I 1200 ARQ 100/170 Cripto 5 (RR2)
9088 MFA Warsaw 1510 POL-ARQ 100/250 Msg Pol (RR2)
9090 MFA Rome, I 1200 ARQ Msg Ita (RR2)
9091 RFFE: FF Bordeaux 1500 ARQ-E 72/400 Idle (RR2)
9100.5 Unid: 1510 PIC-12 20/20 Undecoded (RR2)
9108 A Pol. Den Haag 1350 POL-ARQ 100/250 Msg Pol (RR2)
9110 Unid: Brotherhood? 1420 RTTY 75/500 Cripto 5 (RR2)
9114 HGG31: Mti Budapest 1720 RTTY 50/400 Press Ing (RR2)
9118.6 C Alg. Tunisi 1300 COQ-8 26/30 Msg Fra (RR2)
9126.7 RFTDJ: FF Libreville 0750 ARQ-E3 192/400 Idle (RR2)
9130 GYA: RN London 1710 RTTY 75/850 Com Canali (RR2)
9132 A Pol. Bonn 1250 POL-ARQ 100/170 Cripto 5 (RR2)
9135 SNN299: MFA Warsaw 1720 POL-ARQ 100/300 Msg Pol (RR2)
9140 Unid: 1000 PIC-12 20/20 Undecoded (RR2)
9141.4 MFA Algeri ? 1615 COQ-8 26/30 Msg Fra (RR2)
9147 GYE: RN London 1345 VFT 0/0 Wx (RR2)
9153 SNN299: MFA Warsaw 0610 RTTY 75/250 Msg Ing (RR2)
9170 Unid: 1630 PIC-12 20/20 Undecoded (RR2)
9174.5 MFA Berne UTC? ARQ. (ANEE) HBD: MFA Berna 1440 ARQ Idle (RR2)
9179 MFA Oslo 0830 ARQ Cripto 5 (RR2)
9181 Unid: 1320 PIC-12 20/20 Undecoded (RR2)
9198 A Pol. Brussel 1440 POL-ARQ 100/200 Cripto 5 (RR2)
9220 D2Z: A Fra. ? 1445 FEC-A 192/400 Cripto 5 (RR2)
9245 Unid: Brotherhood? 1530 RTTY 75/500 Cripto 5 (RR2)
9248.7 Unid: 1530 COQ-8 26/30 Msg Fra (RR2)
9259 RFGW: MFA Paris 1400 FEC-A 192/400 Cripto 5 (RR2)
9266 OMS: MFA Bratislava 1310 RTTY 100/400 Msg Sla (RR2)
9278 OMZ: MFA Prague 0800 RTTY 100/400 Msg Cec (RR2)
9286 MFA Paris 0915 ARQ6-90 200 new freq (ANEE)
9303 Unid: 1152 RTTY 50/500 formatted msgs (DG)
9327.9 Unid: MFA Madrid? 0930 F7B 100 normally 9327.8 (ANEE)
9329.5 XVN: Vna Hanoi 1300 RTTY 50/400 Press Ing (RR2)
9331 A Egi. El Djaza 2245 ARQ Msg Ara (RR2)
9336.5 Unid: 1345 RS-ARQ 228/170 Undecoded (RR2)
9351.6 MFA Cairo 1700 FEC wkg consulates San Francisco & Chicago 1700-1730 refs to 5477, nil there. (ANEE)
9352.7 MFA Algeri 2200 COQ-8 26/30 Press Fra (RR2)
9361.9 DFJ36L1: Piab Bonn 1700 FEC-A 96/400 Press Ted (RR2)
9362 A Pol. Sofia 0930 POL-ARQ 100/250 Msg Pol (RR2)
9363.5 Unid: 2130 ARQ-E 184/400 Idle (RR2)
9363.9 A Pol. Sofia 0940 POL-ARQ 100/340 Msg Pol (RR2)
9380 Unid: 1415 RTTY 100/400 Msg Rus (RR2)
9386 P6Z: MFA Paris 1100 FEC-A 192/400 Msg Fra (RR2)
9393 Unid: 1100 FEC-A 144/380 Cripto (RR2)
9395 HMF84: Kcna 2145 RTTY 50/300 Press Fra (RR2)
9399 MFA Vienna 1230 ARQ-S 96/170 Cripto (RR2)
9491 BZR69: Xinhua 0005 RTTY 75/400 Qra (RR2)
9797 YOJ27: Rompress 1130 RTTY 50/500 Press Ing (RR2)

9914 Unid: A Pol. ? 1330 POL-ARQ 100/200 Idle (RR2)
9946.5 EAE220: MFA Madrid 1200 TWINPLEX 100/0 Msg Spa (RR2)
9983.7 RFFA: Mod Paris 2310 ARQ-E3 100/400 Idle (RR2)
9985.7 Unid: 1630 TWINPLEX 100/0 Idle (RR2)
10102.5 3XA: Conkry Air 2330 RTTY 50/400 Qra (RR2)
10125.5 Unid: 1320 PIC-12 20/20 Undecoded (RR2)
10134.9 A Pol. Sofia 1515 POL-ARQ 100/200 Msg Pol (RR2)
10148.9 Toulouse bbs 0900 PACKET 300bd (ANEE)
10150 SUA246: Mena 1600 RTTY 75/300 Press Ara (RR2)
10151.9 MFA Stockholm 0900 ARQ-SWE 100 wkg London, also at 0930, new mode?. (ANEE) SAM29: A Sve. London 0830 SWE-ARQ 100/400 Idle (RR2)
10158 DOR: MFA Sofia 1030 RTTY 75/400 Msg Bul (RR2)
10162.5 YIL71: Ina 1315 RTTY 50/400 Press Ing (RR2) YIL71: INA NX Baghdad 1110 RTTY 50/400 nx items (DG)
10172.7 MFA Cairo 1730 ARQ wkg Athens 1730-2000 (ANEE)
10174.5 Unid: 1330 ARQ 100/400 SS Msg. (RR2)
10175 UNHCR Mauritania 0930 ARQ wkg w/mali @0930-1015. UNHCR Nema, Mauritania 1700 ARQ more tfc abt coord convoy movements with msf & local walis. UNHCR Bassikounou 1515 ARQ w/Mauritania convoy msgs 1515-1615 (ANEE)
10211 Unid: 1735 VFT 0/0 Wx/Cripto (RR2)
10215 HZN48: Jeddah Metao, Sau 2111 RTTY 100/850 wx info (EW)
HZN48: Jeddah Meteo 2240 RTTY 100/800 Wx (RR2)
10234 Unid: 0700 PIC-12 20/20 Undecoded (RR2)
10238.5 Unid: 0830 ARQ weak signal (ANEE)
10250 ECA7: Madrid Meteo, E 1623 FAX 120/576 wx chrt (BvR)
10260 Brotherhood 1700 RTTY 75/500 Cripto 5 (RR2)
10262 Unid: 0755 RS-ARQ 228/170 Undecoded (RR2)
10281 SNN299: MFA Warsaw 1440 POL-ARQ 100/200 Idle (RR2)
10283 ICRC Ginevra 1345 PACTOR 200/170 Msg Ing (RR2)
10299 HSW62: Bangkok Meteo 1530 RTTY 50/100 Wx (RR2)
10307.7 MFA Cairo 1500 ARQ wkg London (ANEE)
10314 SNN299: MFA Warsaw 0750 POL-ARQ 100/250 Msg Pol (RR2)
SNN299: MFA Warsaw 1600 RTTY 75/250 Msg Pol (RR2)
10334.7 MFA Cairo, EGY 0745 FEC. (ANEE)
10400.2 RFFR: FF PARIS, F 2004 ARQ-M2 200/425 idle (SS)
RFQP: FF Jibuti 2220 ARQ-M2 200/400 Idle (RR2)
10401.7 MFA Cairo 0800 ARQ wkg/unid embassy @0800-0900 internal circulars. Same at 0930 ARQ (ANEE)
10415 SNN299: MFA Warsaw 0610 RTTY 75/250 Msg Pol (RR2)
10422.5 MFA Vienna 1315 ARQ-S 96/170 Cripto 5 (RR2)
10424 YMA20: Ankara Meteo 1055 RTTY 75/800 Qra (RR2)
10428 Unid: 1215 POL-ARQ 100/220 Msg Pol (RR2)
10433 TAD: MFA Ankara 0730 FEC-A 144/800 Msg Tur (RR2)
10435.3 MOD Madrid 0830 ARQ wkg ARMY Vitoria (ANEE) Guardia Civil 1045 ARQ 100/250 SS Msgs. (RR2)
10438.7 Unid: 1038 ARQ Arabic text (DG)
10493 MFA Bucarest 1150 ROU-FEC 164/400 Msg Rum (RR2)
10507 FIAMMA: GdF 1600 RTTY 50/170 Msg Ita (RR2)
10536 CFH: Halifax Meteo 2240 RTTY 75/500 Wx (RR2)
10551.3 GLF23: Bracknell Meteo 1400 RTTY 75/425 Wx (RR2)
10582.9 SAM: MFA Stockholm 1620 SWE-ARQ 100/400 Msg Sve (RR2)
10648 Unid: 1340 RTTY 50/850 Numeri (RR2)
10653 A Pol. Paris 1500 POL-ARQ 100/240 Msg Pol (RR2)
10461.7 MFA Cairo? 0845 ARQ MFA Cairo? or unid embassy in chatter @0845-0945. Same at 1400 ARQ wkg Abu Dhabi, Beirut, Algiers 1400-1515 (ANEE)
10465.6 Unid: 0300 F7B 100bd (ANEE)
10477.2 Unid: 0930 RTTY 50/300 Spanish chatter (DG)
10600 XVN37: Hanoi Vietnam 1530 RTTY 50/450 VNA nx in EE (AB3)
XVN37: Vna Hanoi 1400 RTTY 50/500 Press Fra (RR2)
10634.1 CNM37: Rabat Morocco 1525 RTTY 50/400 MAP new FF (AB3)
CNM379X: Map 1645 RTTY 50/400 Press Fra (RR2)
10638.7 RFQP: FF Jibuti, DJI 2027 ARQ-M2 200/425 idle (EW)
RFQP: FF Jibuti 2310 ARQ-M2 200/400 Idle (RR2)
10643.5 Unid: 0800 RTTY 50b tfc. (ANEE)
10672 Brotherhood 1505 RTTY 213/500 Cripto 5 (RR2)
10672.7 Unid: 0300 ARQ 0300-0500 (ANEE)
10678 Unid: 0330 RTTY 50bd encrypted tfc (ANEE)

10686 9DM17: Teheran Meteo 0740 RTTY 50/400 Wx (RR2)
10690 JWT: NN Strevanger 0800 ARQ 100/850 Press Nor (RR2)
10726.5 P6ZI: MFA Paris 1430 FEC-A 192/400 Msg Fra (RR2)
10742 Unid: Brotherhood? 1600 RTTY 75/500 Cripto 5 (RR2)
10748 Unid: 1535 ARQ-E 288/316 Crypto (AB3)
10748.5 C37A: Mossad 1655 ARQ-E 288/330 Cripto (RR2)
10749.5 Mossad 1525 ARQ-E 288/330 Cripto (RR2)
10764 G8T: A Fra. Belgrado 1710 FEC-A 192/200 Idle (RR2)
10814.2 RFQP: FF Jibuti 2310 ARQ-M2 200/400 Idle (RR2)
10844.9 MFA Rome, I 0815 ARQ-N 96 wkg Tripoli? Same at 1000, MFA Rome 1000 ARQ-E 96 wkg Tripoli. (ANEE)
10858 MFA Bucarest 2100 ROU-FEC 164/400 Msg Ing (RR2)
10873.7 RFVI: FF Le Port 2130 ARQ-E 100/400 Idle (RR2)
10886.1 A Ita. Tripoli 0715 ARQ-E 96/170 Msg Ita (RR2)
10917 SNN299: MFA Warsaw 1600 POL-ARQ 100/250 Msg Bul (RR2)
10917.7 RFTJ: FF Dakar, SEN 2025 ARQ-E3 48 RFFIC (EW)
RFTJ: FF Dakar 0910 ARQ-E3 48/400 Idle (RR2)
10930.5 Unid: 1335 PIC-12 20/20 Undecoded (RR2)
10945 CFH: Can Forces Halifax, CAN 2026 RTTY 75/850 wx info (EW)
CFH: CF Halifax 2100 RTTY 75/800 Msg (RR2)
10950.2 RFFA: Mod Paris 2235 ARQ-M2 200/400 Idle (RR2)
10952 Unid: 1545 ARQ Cripto 5 (RR2) MFA Berne 1600-1615 ARQ new freq. (ANEE)
10954.7 RFTJF: French Forces, Port 2108 ARQ-E3 Bouet, Ivory Coast, in 48/850, w/C de V, C.I. JFD. (RB)
10958.5 Unid: 2200 PIC-12 20/20 Undecoded (RR2)
10969 MFA Berne 0945 ARQ new freq (ANEE)
10980 RDD79: Moscow Meteo, RUS 1206 FAX wx (EW)
10996.4 C Alg. Lille 1030 COQ-8 26/30 Msg Fra (RR2)
11028 Unid: Meteo 1520 RTTY 50/400 Wx (RR2)
11037 H6L: French Emb. El Djaza'Ir 0831 FEC-A 192/400 chatter/# grps (DG)
11039 DDH47: HAmburg Meteo 1355 RTTY 50/400 Wx (RR2)
11043.2 D2Z: A Fra. Budapest 1645 FEC-A 192/400 Qra (RR2)
11043.7 RFTJD: FF Douala, CME 0815 ARQ-E3 192 wkg RFTJ 0815-2130 (ANEE)
RFTJD: FF, Libreville, GAB 2008 ARQ-E3 192 controle de voie (RM)
11047.1 MFA Stockholm 1015 ARQ-SWE 100 (ANEE)
11048 P8C: A Fra. ? 1125 FEC-A 192/850 Cripto 5 (RR2)
11050 G8T: A Fra. Belgrado 1120 FEC-A 192/400 Msg Fra (RR2)
11058 8GT: A Fra. Belgrado 1115 FEC-A 192/400 Cripto 5 (RR2)
11063 LZU2: Sofia Bulgaria 1545 RTTY 50/360 Meteo. (AB3) LZU2: Sofia meteo, BUL 1500 RTTY 50/400 wx (RM) LZU2: Sofia Meteo 1350 RTTY 50/425 Wx (RR2)
11068 Unid: 0950 RS-ARQ 228/170 Undecoded (RR2)
11077 A Pol. Bucarest 1350 POL-ARQ 100/200 Msg Pol (RR2)
11077.6 KA2XZD: ESCONDIDO, CA 1710 CLOVER-2000 testing new 8-tone clover. idle chirps and long data + packets noticed. (SS)
11080 SANA 1700 RTTY 50/425 Press Ara (RR2)
11085 RFGW: MFA Paris 1415 FEC-A 192/400 Cripto 5 (RR2)
11086.7 MFA Cairo 1000 ARQ receipt side of duplex @1000-1040.(ANEE)
11088.7 DDH47: Amburgo Meteo 1515 RTTY 50/400 Qra (RR2)
11092.4 DOR: MFA Sofia 1500 RTTY 100/400 Press Ing (RR2)
11096.5 MFA Roma 0700 ARQ Msg (RR2)
11109.5 Unid: 1515 UNID 125/170 Undecoded (RR2)
11110.5 RFLI: FF Forte France 0915 ARQ-M2 192/400 Idle (RR2)
11117 Unid: MFA Belgrado ? 0715 RTTY 75/400 Cripto (RR2)
11119.3 AFS: USAF AWS OM NE, USA 1537 RTTY 75/850 KAWN meteo data (off freq? - usually 11118.0). (SS)
11120 SNN299: MFA Warsaw 1020 POL-ARQ 100/250 nx items (DG)
11125 HZN: Jeddah Meteo 1350 RTTY 100/400 Wx (RR2)
11133 Unid: 1030 ARQ-E 96/170 Cripto (RR2)
BZG41: Xinhua 1620 RTTY 50/400 Press Fra (RR2)
11139 DFZG: MFA Belgrado 1610 RTTY 75/400 Msg Ing (RR2)
11143 Unid: Brotherhood? 1045 RTTY 75/400 Msg (RR2)
11163 Unid: 1746 Twinplex Unidentified: On, idles, off, on, idles, off, on, idles off... Sign off in CW at 1900 (RM)
Unid: 1120 RS-ARQ 228/170 Undecoded (RR2)
11166 DOR: MFA Sofia 1845 RTTY 120/500 Press Bul (RR2)
11166.9 Unid: A Egi. ? 1700 ARQ Msg Ara (RR2)

11172 DOR: MFA Sofia 2330 RTTY 150/400 Press Ing (RR2)
11173.1 MFA Bucarest 0805 ROU-FEC 164/400 Msg Rum (RR2)
11173.5 RFGW: MFA Paris 1020 FEC-A 192/400 Cripto 5 (RR2)
Unid MFA Sofia 1115 RTTY 75 wkg Kiev (ANEE)
11292.5 Unid: 0655 PIC/VFT 20/20 Idle (RR2)
11408.5 Irish Navy 0830 ARQ attempted QSO by Irish Navy vsls, then may have shifted to a 15-megger (15725?) (ANEE)
11410.2 Unid: 1445 ARQ (ANEE) [could be PCW1: MFA Den Haag, HOL idling in 100b F7B4 -LOGS]
11415.2 RFFP: MFA Paris 1200 ARQ-M2 200/400 Idle (RR2)
11423.5 SOL242: PAP Warsaw 1900 FEC Press Pol (RR2)
11430 HMF55: KCNA 1405 RTTY 50/250 Press Ing (RR2)
11450 RDD77: Moscow Meteo 1450 RTTY 50/800 Wx (RR2)
11463 MFA Rome UTC? ARQ-E 96bd tfc fm Warsaw (ANEE) Italian Emb. Warsaw 0945 ARQ-E 96/200 diplo tfc (DG) A Ita. Warsaw 0900 ARQ-E 96/170 Msg Ita (RR2)
11467 SNN299: MFA Warsaw 0610 RTTY 75/250 Msg Sla (RR2)
11476 HMF52: Kcna 2140 RTTY 50/250 Press Ing (RR2)
11480 MFA Roma 0700 ARQ-E 96/170 Msg Ita (RR2)
11485 AOK: USN Rota, E 1545 FAX 120/576 sea surface temp anal. (BvR)
11503.5 Unid: 1630 FEC (ANEE)
11518.2 RFFA: 0830 ARQ-M2 200bd @0830-1145 (ANEE)
11524 Unid: 1615 ARQ-E 50 more of these 50bd ones popping up! (ANEE)
11536 HMF49: KCNA 1000 RTTY 50/250 Press Ing (RR2)
11604 YZJ: Tanjug 1000 RTTY 50/400 Press Ing (RR2)
11631.7 Unid: 1045 ARQ-E3 192 (ANEE)
11638 DDK2: Amburgo Meteo 1430 RTTY 50/425 Wx (RR2)
11680 BZP51: Xinhua 1425 RTTY 75/400 Qra (RR2)
12067.5 Unid: 1630 ARQ unid French under a broadcaster 1630-1800 (ANEE)
12070.4 UNID: 1521 RTTY 75/1000 nx in SS, followed by op chatter (SS)
12086.4 Unid: 0815 ARQ-E3 192 (ANEE)
12090.2 RFTJ: FF Dakar 2125 ARQ-E3 192/400 Idle (RR2)
12103 MFA Stockholm 0930 ARQ-SWE 100 wkg Zagreb (ANEE)
12107 MFA Bucharest, ROU 1400 RUM-FEC 164.48 tfc (ANEE) [should be V5G -LOGS]
12110 YOM21: Rompress 1120 RTTY 50/400 Press Ing (RR2)
12114 DOR: MFA Sofia 1010 RTTY 75/500 Msg Bul (RR2)
12125 SNN299: MFA Warsaw 1700 POL-ARQ 100/250 Msg Pol (RR2)
12130 MFA Bonn 1030 ARQ-E 96 (ANEE) DMK: MFA Bonn 0940 ARQ-E 96/170 Idle (RR2)
12131.5 Unid: PIAB ? 1530 FEC-A 96/400 Press Ted (RR2) [yes, DFM13, PIAB Bonn -LOGS]
12132 Unid: MFA Algeri ? 1435 RTTY 50/200 Msg Fra (RR2)
12138 DOR: MFA Sofia 0155 RTTY 75/400 Msg Bul (RR2)
12140 HWN: FN Paris 2145 RTTY 75/850 Qra (RR2)
12145 Unid: 2219 RTTY 100/850 encrypted text (EW)
12150 MFA Rome, I 0800 ARQ-E 96 w/circular 0800-1100 new mode this ckt. Same at 1030, wkg Eastern bloc embassies, UN & EU reps, Belgium. (ANEE) MFA Roma 0800 ARQ-E 96/170 Cripto 5 (RR2)
12158 MFA Rome 1130 ARQ-E 96b wkg @1130-1245 tfc fm Minsk to Rome via Moscow, Warsaw, Kiev, Alma Ata & Vilnius- new freq (ANEE)
12173 SNN229: MFA Warsaw 1015 POL-ARQ 100/250 Msg Pol (RR2)
12173 HWN: F Navy 1000 RTTY 75/800 Test (RR2)
12174 Brotherhood 0755 RTTY 75/500 Cripto 5 (RR2)
12175 KCNA 2330 RTTY 50/250 Press Ing (RR2)
12178 DOR: MFA Sofia 1040 RTTY 150/400 Msg ? (RR2)
12186 Jana 1550 RTTY 50/400 Press Fra (RR2)
12190.2 DOR: MFA Sofia 0945 RTTY 150/500 Msg Bul (RR2)
12194 UNID: "KUL"-transmission 1400 RTTY 75/439 "11177 00052 40429 14064 05395". (JJ2) [Ary sez this is SOUD Moscow with a msg to 'KUL' -LOGS]
12195 Unid: 1750 RTTY 100/500 Cripto 5 (RR2)
12202 Unid: 1300 FEC-A 144/400 Msg (RR2)
12204 SNN299: MFA Warsaw 1310 POL-ARQ 100/170 Msg Pol (RR2)
12205 UNID: 2047 RTTY 75/850 RYs into enc. after VMGTCNJ, w/Royal Navy London fleet msgs. (SS)
12208 OMZ66: MFA Bratislava 1000 RTTY 100/400 Msg Slo (RR2)
12210 OMZ: MFA Prague 0845 RTTY 100/400 Msg Cec (RR2)
12212.5 YZO7: Tanjug 1330 RTTY 50/425 Press Ing (RR2)

12214 MFA Bucarest 1135 ROU-FEC 164/400 Msg Rum (RR2)
12215.5 YZY234: Tanjug 1700 RTTY 50/400 Qra (RR2)
12216 SNN299: MFA Warsaw 0945 RTTY 100/400 Msg Pol (RR2)
12228 SNN299: MFA Warsaw 0610 RTTY 75/400 Msg Ing (RR2)
12228.4 BZR62: Xinhua 1455 RTTY 75/400 Press Ing (RR2)
12478 WRK5847:Coast Runner 2026 ARQ wkg KFS w/msgs. (RB) WSRH: SS KAUAI 1955 ARQ WKG KFS W/EMAIL. RE: CREW CHANGES. C6NJ4: CASCADIAN DAWN 2052 ARQ W/AMVER/PR 2143N 10921W ETA LONG BEACH. (WT)
12479 3FMP3: M/T TESEO 1833 ARQ W/AMVER/PR. (WT)
12480 UINM: TKH Anatoliy Kolesnichenko 2114 ARQ w/crew TG's to Vladivostok. (RB)
12480.5 LAVW4: Star Florida 1757 ARQ w/AMVER/PR, 3225N/07041W, login 258974000 LAVW. (RB) LXDL: M/V CRYSTAL PILGRIM 0729 ARQ W/AMVER/PR 2538N 11357W ETA LONG BEACH. LOGIN: 36219 LXDL. 3EGR6: M/V RECIFE 1900 ARQ W/TLX LOGIN: 61028 RECI. (WT)
12481.5 9HOW3: M/V RYBNOVSK 0710 ARQ W/TLX, PSE SND TLX VIA PERTH R. OR VIT/CW. LOGIN: 13620 9HOW3. (WT)
12482 3FXI3: Hero 1812 ARQ w/AMVER/PR, ETA Puerto La Crus pilot. IBPI: Raffaaele Iuliano 1926 ARQ w/SCV tlx re wx broadcast skeds. (RB)
12482 C6QS: M/V Arabian Sea 2003 ARQ w/tlx re condition of cargo. (RB) WGWA: SS OMI WILLAMETTE 1845 ARQ W/WX BBXX, LOGIN: 11076 WGWA. (WT)
12483 9MYK: M/V BUNGA KANTAN 0015 ARQ W/TLX ETA KETCHIKAN. C6KV2: M/V AUCKLAND STAR 2215 ARQ W/TLX LOGIN: 61386 AUKS. P3WC4: M/V TOMASOS 2255 ARQ W/TLX LOGIN: 56142 P3WC4. (WT)
12486.5 KNJD: SS BLUE RIDGE 2125 ARQ W/AMVER LOGIN: 11132 KNJD. (WT)
12490 NZAU: USS SMNL? 2130 ARQ W/MSG, REQ'N. LOGIN: 11406 NZAU. (WT)
12490.5 3FUM4: JOHNY C. 1523 ARQ ETA PANAMA LOGIN: 26955 JONY. (WT)
12491.5 PPSQ: N/T Itaperuna 2343 ARQ w/tlx re departed Salvador, bound Rio Janiero. (RB) HQNE9: M/V MARCOS DIAS 0020 ARQ W/PERS MSGS IN SS. LOGIN: 710071000 PPSS. (WT)
12493.5 WXWL: M/T Delaware Trader 1739 ARQ w/login for msg ck, login 11172 WXWL. (RB) 3ELF9: DOCTOR LYKES 1817 ARQ W/AMVER/PR 2419N 08132W. LOGIN: 42962 DRLY. NEW S/C? WXWL: M/T DELAWARE TRADER 1939 ARQ ARR L.A. LOGIN: 11172 WXWL. P3VI2: M/V ANTIGONOS 2257 ARQ W/TLX IN PP LOGIN: 29330 P3VI2. (WT)
12497.5 3ETQ4: M/V MIN NOBLE 2245 ARQ W/AMVER/PR 5406N 15752W. LOGIN: 42034 MINN. SUCN: M/V WADI AL NAKHEEL 2230 ARQ W/TLX TO: CANSERV VCR. LOGIN: 78003 SUCN. (WT)
12505 WLBV: RICHARD G. MATTHIESEN 2105 ARQ W/TLX LOGIN: 11645 WLBV. (WT)
12507 C6RT: M/V Celtic Sea 1624 ARQ w/AMVER/PR. AAFB: USAV MG Nathanial Greene (LT-801) 2029 ARQ wkg WLO Mobile Radio w/OP+ tfc att to get sitor problem worked out. (RB)
12560.5 URPI: TKH Professor Kostyuko 1813 RTTY -v in 50/170 crew TG's to Odessa Radio. (ODS/UMF). (RB)
12561 UNCH: BMRT Gazgan 1829 RTTY Factory Fishing trawler, in 50/170 DISP-1 report to Odessa Radio. UEWW: BMRT Labrador 2237 RTTY in 50/170 RYRY/DE to UIW, & w/crew TG's. (RB)
12562.5 LYMM: BATM Zaostrov'e 1646 RTTY in 50/170 RYRY/DE to UIW, & w/admin tfc to same from ships master, ITU chg'ed this ships c/s to UEVB recently, however LYMM still used in RYRY. LYHW: BST Strombouss 1708 RTTY in 50/170 tfc, BST is Bolshoi Sejner Tunets (large tuna sejner). UNMJ: BATM Dzhaparidze 1715 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's using hull#/ID BATM 6040. UFZE: BMRT Ivan Dvorskiy 2208 RTTY in 50/170 crew TG's to Kaliningrad. (KLD/UTF). (RB)
12563 UWEI: RTMA Rubinovyy 0725 CW w/tfc to Vladivostok. (RB)
12563.5 ELKS4: Front Breaker 1658 ARQ w/tlx for posn, ETA Galveston. SBDH: United Moonlight 1753 ARQ w/AMVER/PR, login 26823 OTMOON. UUOD: TKH Novokuybyevs 2041 RTTY in 50/170 admin msg from vsls master, KM Perekinu, note name chg from Teplokhoda Lukhovitskoda for c/s. (RB)
12564 YLFR: TSM Milgravis 1934 RTTY in 50/170 admin tfc. UPAR: TKH Akademik Shukhov 2042 RTTY in 50/170 RYRY/DE to RKB, & into DISP-1 report to St Petersburg Radio. (RB)
12564.5 UALY: RTMS Zvezda 1647 RTTY in 50/170 crew TG's to K-grad, c/s was URRD. EKNB: TR Izumrudnyj Bereg 1805 RTTY in 50/170 RYRY/DE to UIW, & w/admin tfc from master, KMD Pavlov. N/A: BMRT Vonanin (?) 2040 RTTY in 50/170 crew TG's, no prior info for this vsl. (RB)
12565 UTSW: RTMKS Kapitan Orlikova 1903 RTTY in 50/170 crew TG's. EMPL: BATM Kapitan Buga 1923 RTTY in 50/170 RYRY/DE to UIW, & into crew

TG's. UUJN: STM Aleksandr Lavrenoy 1925 RTTY in 50/170 RYRY/DE to UIW, & into admin tlxs. (RB)
12566 YLEI: TR Ekholots 1708 RTTY in 50/170 RYRY/DE to UQK (old Riga c/s), & into tlx to unid port authorities listing vsl weight as 4313 (DWT?) & w/39 crew aboard, from master, KM Kamozin. (RB)
12566.5 UWSB: TKH Kapitan Medvedev 1823 RTTY in 50/170 RYRY, DE to UUI, & into crew TG's. UYUW: TH Iona Yakir 1847 RTTY in 50/170 RYRY/DE to UUI, & w/crew TG's (ODS/UMF). USEP: TKH Mikhail Stel'makh 1817 RTTY in 50/170 RYRY/DE to UUI, & w/DISP-1 report for UTOK, TKH Akademik Eugeniy Paton; sends same for themselfs; admin tfc for TKH Kapitan Dzuraevich; DISP-1 report for TKH Karl Liebknekht, UWPR; (RB)
12567.5 & same for UTOB, TKH Aleksandr Tsyurupa. (RB)
12568 EMPL: BATM Kapitan Buga 1902 RTTY in 50/170 RYRY/DE to UTSW, RTMKS Kapitan Orlikova, & w/admin tfc from master KMD Angelov, also sends DISP-1 report for BATM Kapitan Solyanik (unk c/s), & "Antarktika PRP" tfc for UUJN, STM Aleksandr Lavrenov. (RB)
12569 YLEK: BMRT Karlis Bude 1534 RTTY in 50/170 tfc to Riga Radio using hull#/ID BMRT-490, also sends for RTMS Aitsinayams w/hull#/ID LM-7552; YLFR, TSM Milgravis Smirnov; and YLFS Kapitan Jedenskiy. YLEL: BMRT Gunars Akis 1613 RTTY in 50/170 tfc from master using hull#/ID of BMRT 575. Also sends tfc for other trawlers. YLFP: RTMS Misa 1617 RTTY in 50/170 admin msgs from master KMD Dvoryatkin using hull#/ID RTMS-7579, also sends same from YLEP, BMRT Robert Eydeman from master KM Borisevich using hull#/ID BMRT 249, and YLEL, BMRT Gunars Akis as BMRT 575, ex-EWZG, BMRT Viktor Khudyakov? (RB)
12569.5 YLFB: RTMS Aitsinayams 1542 RTTY in 50/170 w/crew TG's using hull#/ID LM-7552. UEMP: RTMS Malta 1801 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's using hull#/ID RTMS 7563, is ex-LYEB. (RB)
12571 UTQZ: YEVGENIY ONUFRIYEV 1450 ARQ H/P is ARK, Built 1970, 1684 tons General Cargo vsl. (ES)
12572 USRV: BATM Marshal Yeremenko 1745 RTTY in 50/170 crew TG's to Murmansk using hull#/ID MA-0064. (MRM/KRH). (RB)
12572.5 UALU: NIS Atlantida 2214 RTTY in 50/170 5NG msgs in BBXX wx obs format (including the c/s). (KLD/KRH). (RB)
12573.5 UINN: BMRT Otrog 1827 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's. (KLD/BMP). (RB)
12575 4530: 1603 ARQ Unid "4530 sn x +?" (BvR)
12576.5 LYFI: BATM Marshal Novikov 1710 RTTY in 50/170 RYRY to UIW & into crew TG's/admin msgs from master KM Khtsura. (RB)
12580 GKE5: Portishead R, G 1600 FEC Wx chiaro (RR2)
12697 USU: Mariupol R, UKR 1204 RTTY 50 ryry, msgs. (HS)
12790 USCG Miami 0000 FAX (//8504) w/wind & wave heights for the Gulf of Mexico. (DD) [remoted maybe, but there is no more NMA, CommSta Miami, these are sent by NMG, CommSta New Orleans -LOGS]
12903.1 RBSL: RTTY 50/784 Navy India, Bombay. (JJ2)
12905.9 GYA: 1515 RTTY 75/850 CARB message de GYA + [have logged MTO here 2/95] (SS) MTO: RN Rosyth 1455 RTTY 75/850 Com Canali (RR2)
12947 UFB: Odessa R. 1755 RTTY 50/170 Msg Rus (RR2)
13054 UJY: Kaliningrad 1755 RTTY 50/170 Msg Rus (RR2)
13073.5 C37A: Mossad 1315 ARQ-E 288/330 Cripto (RR2)
13226.7 Unid Prob. Egyptian MFA 1330 ARQ atu-80 msgs (DG)
13331.7 Unid: Prob Egyptian MFA 0909 ARQ atu-80 msgs (DG)
13347.7 MFA Cairo 1655 ARQ 100/179 Idle (RR2)
13365.7 Unid: Nairobi Air? 1650 RTTY 50/170 Msg Ing/Wx (RR2) [yes, 5YD -LOGS]
13373.4 5YD: Nairobi Air 1650 RTTY 50/200 Qra (RR2)
13376.5 Guardia xxxx ARQ tfc on Guardia Tenerife-Madrid link (ANEE)
13378.5 MFA Madrid? 0900 ARQ @0900-0945 chatter (ANEE)
13389 Unid: 0820 ARQ Italian Diplo, 5LG to middle east embassies (AB3)
13397 DFZG: MFA Belgrado 1050 RTTY 75/400 Msg Ing (RR2)
13399 DFZG: MFA Belgrado 1430 RTTY 75/400 Qra (RR2)
13401.7 MFA Cairo 1620 FEC Msg Ara (RR2)
13414 Unid: 1330 POL-ARQ 100/250 Msg Pol (RR2)
13415.2 MFA Den Haag 0930 F7B 100 idle (ANEE)
13416 Unid: 0830 ARQ-E 288 wkg Mossad stn (ANEE)
13419 6XM8: BND, Bonn, D 1442 ARQ-E 288 enc to C37A. Same at 1504. (RM)
13420 A Pol. Baghdad 1320 POL-ARQ 100/300 Msg Pol (RR2)
13428.4 MFA Algeri 1400 COQ-8 26/30 Msg Fra (RR2)
13438.6 DFN43: Piab Bonn 0810 FEC-A 96/400 Press Ted (RR2)

13440 YZI235 : Tanjug 1650 RTTY 50/400 Press Ing (RR2)
13444.2 RFQP: FF Jibuti 1350 ARQ-E3 100/400 Idle (RR2)
13446 A Pol. Atene 1350 POL-ARQ 100/250 Cripto 5 (RR2)
13446.7 Unid: 0815 F7B 100 (ANEE)
13456 A Bul. Moscow 0915 RTTY 120/400 Msg (RR2)
13470 RKU71: Moscow Meteo, RUS 1428 Fax w/wx charts, 120/576 at 1428 & 90/576 at 1437 (RM)
13486.7 MFA Cairo 0945 ARQ tfc 0945-1030 (ANEE)
13506 RLX: Soud station 0938 RTTY 75/500 figs (DG)
13506.7 MFA Cariro 1000 ARQ wkg Tripoli (ANEE)
13507 V5G: MFA Bucarest 1530 ROU-FEC 164/400 Msg Rum (RR2)
13510.6 Unid: 1600 RS-ARQ 228/170 Undecoded (RR2)
13521 Unid: 1526 POL-ARQ 100/170 Pol. Msg. Possibly from Emb. in Damascus. (ED)
13527.2 Unid: 1700 ARQ Msg (RR2)
13530 RWW73: Mosca Meteo 1435 RTTY 50/1000 Wx (RR2)
13536 L4N: A Fra. Dakar 1200 FEC-A 192/850 Idle (RR2)
13536.5 L4N: 1351 FEC-A 192 Unid FF emb 5 fgs (BvR)
13540 Unid: 1430 PIC-12 20/20 Undecoded (RR2)
13541.1 NNN0MDM: USN MARS 1249 PACTOR 11/200 MARS tfc (DG)
13543.7 RFTJD: FF DOUALA 1300 ARQ-E3 192/400 idling (DG)
13545.2 MOD Oslo 0830 F7B 100 wkg Norbatt UNIFIL 0830-2115 (ANEE) [probably PCW1 -LOGS]
MFA Den Haag 0930 F7B 100 idle (ANEE)
13546 A Pol. Ankara 1335 POL-ARQ 100/250 Idle (RR2)
13570.9 DFN57: PIAB Bonn 1000 FEC-A 96/400 Press Ted (RR2)
13577 Unid: 1400 PACKET w/761 701 /EX, 761 701 B. (PT)
13580 HMF35: KCNA 2120 RTTY 50/250 Qra (RR2)
13583.5 Unid: 0930 ARQ weak signal (ANEE)
13587 MFA Bucarest 1630 ROU-FEC 164/400 Press Rum (RR2)
13597 JMJ4: Tokyo Meteo, Japan 2210 FAX. (EW)
13647 Unid: 0900 ARQ weak poss selcalls VVVM (ANEE)
13848.5 RFFLX: LBN 1348 ARQ-E 72 FF Naqoura idlin (no id) (BvR)
RFFXL: FF Naquora 1545 ARQ-E 72/400 Idle (RR2)
13852 A Pol. Madrid 1230 POL-ARQ 100/250 Msg Pol (RR2)
13875.4 HXG: A Ung. ? 1340 DUP-ARQ 125/170 Msg Ung (RR2)
13875.8 HGX21: MFA Budapest 1227 DUP-ARQ 125/170 diplo tfc (DG)
13896.5 Unid: 1345 ARQ-E 96 Unid idlin German diplo? (BvR) [prior logs as MFA Bonn & German Embassy, Madrid -LOGS] A Ted. Madrid 1540 ARQ-E 96/170 Idle (RR2)
13911.6 Unid: 1459 ARQ EE msg, BBS? (ED) [should be Medecins Sans Frontiers (Doctors without Boarders); Kabul, Afghanistan logged here before -LOGS]
13914.6 Embacuba 0015 RTTY 50/400 FF Press. (RR2)
13915 Unid: 1414 Pactor Possibly ICRC. End of msg in SS (RM) [probably HBC88: ICRC, Geneva, SUI - LOGS]
13919.9 VQMP: Italian Embassy San'A 1100 ARQ diplo tfc (DG)
13928.6 Unid: 2050 RS-ARQ 228/170 Undecoded (RR2)
13933 DOR: MFA Sofia 1030 RTTY 150/500 Msg Ing (RR2)
13936.4 Dogana Djanet 0720 COQ-8 26/30 Msg Fra (RR2)
13938 DOR: MFA Sofia 1125 RTTY 150/500 Msg Bul? (RR2)
13941.5 MFA Tunisi 1635 FEC End (RR2)
13953 P6Z: MFA Paris 0805 FEC-A 192/400 Msg Fra (RR2)
13956.5 66A: MFA Tunisi 1540 FEC Cripto 5 (RR2)
13957 A Pol. Rabat 1710 POL-ARQ 100/250 Msg Pol (RR2)
13965.5 VLA: 1450 FEC Unid Fr mgs 5 fgs with linecount mgs to GL1 KP5 PIB. (BvR) [probably MFA Berne -LOGS] HBD20/6: MFA, Berne, SUI 1536 ARQ 5LG (RM)
13996.4 HBC88: ICRC Geneva 1143 PACTOR 200/200 msg tfc (DG)
13996.5 STK: Khartoum Air 1435 RTTY 50/400 Qra (RR2)
13998 HBC88: ICRC Geneva 1207 PACTOR 100/200 msg tfg (DG)
HBC88: ICRC Ginevra 1330 PACTOR 200/170 Msg Ing (RR2)
13998.5 Unid: 1440 PIC-12 20/20 Undecoded (RR2)
13966.5 HBC88: ICRC Ginevra 1525 PACTOR 200/170 Msg Fra (RR2)
13976 HBD20: MFA Berna 1020 FEC Press Ted (RR2)
13986.7 RFFA: MOD Paris 1320 ARQ-E3 192/350 Idle (RR2)
14339.7 BAF47: Beijing Meteo, CH 2355 RTTY 50/850 wx (EW)
14349.5 Unid: 0800 ARQ w/5lgs 0800-1000 (ANEE)

14352 MFA Bucarest 0905 ROU-FEC 164/400 Cripto (RR2)
14356 GFL24: Bracknell Meteo 1315 RTTY 75/400 Wx (RR2)
14356.9 RFHWWTCV: Papeete FF 0102 ARQ-M2 128.5/100 press & administrative msg. (ED)
14359 SNN299: MFA Warsaw 0935 RTTY 75/300 Msg Pol (RR2)
14367.1 BZP54: Xinhua 1310 RTTY 75/400 Press Ing (RR2)
14373 KAC: 2055 RTTY 75/500 rys + 5fgs (SS) [Ary sez SOUD Havana w/msg to 'KAC' -LOGS]
14387.5 Unid: 1345 PIC-12 20/20 Undecoded (RR2)
14390.5 Mossad 1430 ARQ-E 288/330 Cripto (RR2)
14390.5 Mossad 1520 ARQ-E 288/330 Cripto (RR2)
14393.5 Unid: 1345 PIC-12 20/20 Undecoded (RR2)
14401.6 UNHCR Geneva, SUI 0945 PACTOR 200 wkg Monrovia, Liberia in PACTOR & UN-PACTOR (ANEE)
14405 UNHCR Geneva, SUI 0915 pactor 200 wkg Sarajevo & Baghdad in PACTOR & UN-PACTOR (ANEE) UNO Geneva 0945 PACTOR 100/200 Msg Ing (RR2)
14405.9 SAM: MFA Stoccolma 0800 SWE-ARQ 100/400 Cripto 5 (RR2)
14448 Unid: 1630 POL-ARQ 100/350 Msg Pol (RR2) [MFA Warsaw -LOGS]
14449.2 Unid: 1455 POL-ARQ 100/240 Msg Pol (RR2)
14452 HMF57: Kcna 0930 RTTY 50/400 Press Ing (RR2)
14458.5 DFO46L2: Piab Bonn 1400 FEC-A 96/400 Press Ted (RR2)
14461.7 Unid: 0930 F7B 100 possible Den Haag or Islamabad (ANEE)
14462.5 Unid: MFA Paris? UTC? ARQ6-90 100 poss qsy to avoid 14461.7 (ANEE)
14465.7 Unid: 1630 PACKET 300/170 (RR2)
14467.3 DDH8: Hamburg Meteo, GER 1220 RTTY 50/425 RY de DDH (EW) DDH8: Pinneberg Meteo, D 1351 RTTY 50/439 coded wx. (RM) DDH8/9: Hamburg Meteo 1410 RTTY 50/400 Wx (RR2)
14475 MFA Bucarest 1405 ROU-FEC 164/400 Msg Rum (RR2)
14483.5 Unid: 1715 PIC-6 20/20 Cripto (RR2)
14486 P6Z: MFA Paris, F 0930 FEC-A 192 wkg Rabat (ANEE)
P6Z: MFA Paris 1100 FEC-A 192/400 Cripto 5 (RR2)
14497.5 CSY: SANTA MARIA AIR 1307 RTTY 50/850 Transmitter unstable. Cct [MCA] to Sal. Air tfc. (DW) CSY: S. Maria Air 2310 RTTY 50/850 Wx (RR2)
14500 Unid: 1515 CIS11-14-27 50b link w/above (ANEE)
14504 Unid: 1330 ARQ. (ANEE)
14511 Unid: 1325 PIC/VFT 20/20 Cripto (RR2)
14521 A Rom. Cairo 1325 ROU-FEC 218/400 Cripto (RR2)
14523.9 SAM53: A Sve. Amman UTC? SWE-ARQ 100/400 Msg Sve (RR2)
14525 MFA Stockholm 1515 ARQ-SWE 100 Also 200bd (ANEE)
14560.4 JYF: Petra 1115 RTTY 50/400 Press Ara (RR2)
14573 Jana 1555 RTTY 50/400 Press Ara (RR2)
14575 PZ6: MFA Paris 1400 FEC-A 192/400 Idle (RR2)
14581 Unid: 1515 CIS11-14-27 50 (ANEE)
14582.9 Unid: 0945 PACKET 300 (ANEE)
14585.7 RFPTC: FF N'Djamena 1230 ARQ-M2 200/400 Idle (RR2)
14587 Unid: 1545 RTTY 75/500 Cripto 5 (RR2)
14590 Unid: 1015 ARQ (ANEE)
14593.6 Unid: 2125 PIC/VFT 20/20 Stand by (RR2)
14596.5 Unid: 1345 PIC-12 20/20 Undecoded (RR2)
14606.6 RFHI: FF Noumea, New Cal 0943 ARQ-E3 100 CdeV (EW)
14617 Unid: 1550 RS-ARQ 228/170 Undecoded (RR2)
14621.7 MFA Cairo, EGY 0930 ARQ w/circular 0930 on 3 hours early today (ANEE)
14626.7 RFLI: FF Fort France 1310 ARQ-E3 192/400 Idle (RR2)
14639 A Pol. Baghdad 1000 POL-ARQ 100/200 Msg Pol (RR2)
14642 4UZ: Uno Ginevra 1005 TWINPLEX 100/0 Msg Ing (RR2)
14643.7 Unid: 1201 TWINPLEX 100 F7B1 EE msg re Haiti. Header said OMNIPRESS/UNDEVPRO (EW) Unid: 1616 ARQ Dutch diplo? TVVX selcalling. (RM) [Ary sez TVVX is a unid Dutch diplo selcall -LOGS]
14654.5 SPW: Warsaw R. 1045 ARQ Msg Pol (RR2)
14663.5 MFA Bonn 1200 ARQ-E 96bd tfc fm Beijing & Brasilia (ANEE)
DMK: MFA Bonn 2120 ARQ-E 96/170 Idle (RR2)
14670.2 RFFVAT: FF Incirlik 1340 ARQ-M2 200/400 Idle (RR2)
14674 DFZG: MFA Belgrado 1540 RTTY 75/400 Msg Ing (RR2)
14681 V5G: MFA Bucharest, ROU 1159 ROU-FEC 164.5/400 w/crypto. 1204: id in CW. 1206: back to rou-fec w radiograma circular in RM. (RM) V5G: MFA BUCHAREST 1153 ROU-FEC 164.6 msgs in Romanian. (EW) V5B: MFA Bucarest 0905 ROU-FEC 164/400 Msg Rum (RR2)
14683 MFA Bucarest 1630 ROU-FEC 164/400 Msg Rum (RR2)

14688 MFA Bucarest 1700 ROU-FEC 164/400 Cripto (RR2)
14699 YIX70: INA 0900 RTTY 50/350 Press Ara (RR2) YIX70: INA BAGHDAD 1150 RTTY 50/425 nx in Arabic. (EW)
14709.5 Unid: 1525 PIC-6 20/20 Stand by (RR2)
14718.3 RFHI: 1015 ARQ-E3 100 wkg RFHJ (ANEE) [RFHI is FF Noumea, NCL -LOGS] RFHI: FF Noumea, NewCal 2200 ARQ-E3 100 idle (EW)
14722 Unid: 1147 Unid 150/778 encrypted text (EW)
14727.1 Unid: 1332 ITA-2 RTTY 150/500 After some manipulation I was able to get readable text that consisted of 5 grp and 6 grp numbers. Previously noted unid on 14727khz, as reported by Joseph Cini in WUN#12. This Freq is also mentioned in WUN#3 as a "Brotherhood" frequency. (DG) [yes, link 10424 to BPA -LOGS]
14732 RFFTA: 1352 ARQ-E 96 Unid FF mil clr tfc and 5 fgs (BvR) RFVI: FF Le Port 1520 ARQ-E 96/400 Msg Fra (RR2) Unid: 1600 POL-ARQ 100/200 Msg Pol (RR2) [MFA Warsaw -LOGS]
14738 Unid: Unlocated MFA 1059 POL-ARQ 100/250 Polish text (DG)
14760 CNM61: MAP Rabat, MRC 1327 RTTY 50 EE nx. (HS) CNM61: MAP 1310 RTTY 50/425 Press Ing (RR2)
14761.5 NNN?: Usn Mars ? 1520 PACTOR 200/200 Tlx Ing (RR2)
14762.5 NNN0GKF: Usn M. Nazareth 1630 ARQ Tlx Ing (RR2)
14764 A9M70: Gna Manama 1620 RTTY 75/400 Press Ing (RR2)
14775 RPTI: PN Ponte Delga 1330 RTTY 75/800 Cripto (RR2)
14781.7 Mossad: 1500 RTTY 100 idle cw sequence Mossad to Sismi. (ANEE)
14782.8 Unid: 0930 F7B 100 maybe MFA Oslo? weak (ANEE)
14785 ATP65: Mea Delhi 1500 RTTY 45/400 Press Ing (RR2)
14798.7 RFFVAE: FF DHAHRAN, SAU 1144 ARQ-E3 200/425 idle (EW) RFFVAE 1320 ARQ-E3 192/200 tfc to RFFUBA/RFFUBI/RFFUDF. (JJ2)
14801.3 RFVI: French Forces, Le Port 1855 ARQ-E3 Reunion Isl idling in 100/425. (RB)
14801.7 MFA Cairo? 1330 ARQ. (ANEE)
14801.7 RFVI: FF Le Port 1510 ARQ-E3 100/400 Idle (RR2)
14803 Unid: 1437 ROU-FEC 164.5/400 Romania, press. (M=1)(ED)
14810 MFA Warsaw, POL? 1445 ARQ-POL 100 (ANEE)
14812 OMZ: MFA, Prague, CZE 1236 RTTY 100/500 nx/CZ + circulars. (RM)
14814.4 MFA Stockholm 1000 ARQ-SWE 100bd fm lagos *klingenfuss says sofia; this circuit varies between 14814.35-14814.50 (ANEE)
14814.5 SAM: MFA Stockholm 1410 SWE-ARQ 100/400 Msg Sve (RR2)
14822 VKX275 : Brotherhood 1600 RTTY 75/400 Cripto 5 (RR2)
14840.4 DOR: MFA Sofia 1051 RTTY 150/500 nx items (DG)
14840.5 HGX21: MFA Budapest 1340 DUP-ARQ 125/170 Msg Ung (RR2)
14842 Unid 1140 FAX 120/576 very poor signal who is this? (EW) [ATV65, Delhi Meteo, India -LOGS]
14845.3 DOR: MFA Sofia 1000 RTTY 150/500 Press Bul (RR2)
14867.8 MFA Cairo 1600 ARQ Msg Ara (RR2)
14877.5 AAA6USA:Fort Sam Houston, Tx 1826 PACKET Central Army MARS gateway, wkg AAA0USA, Fort Lewis, Wa, Army MARS Western gateway. Note the first "A" in ea c/s is dropped to conform to packet protocall w/these stations. (RB)
14903 SAM: MFA Stockholm 1445 SWE-ARQ 100/400 Msg Sve (RR2)
14903.1 SNN299: MFA Warsaw, POL 1133 POL-ARQ 100 msgs in Polish. (EW)
14906.7 MFA Cairo 1030 ARQ tfc fm Moscow @1030-1130 (ANEE)
14909.7 A Egi. Tunisi 1000 ARQ Cripto 5 (RR2)
14911.7 Unid: 0730 ARQ-E3 192 (ANEE)
14912 DFZG: MFA Belgrado 1120 FEC-A 144/400 Idle (RR2)
14912.5 SOO291: PAP Warsaw 1420 FEC Msg Pol (RR2)
14926.7 RFTJ: French Forces, Dakar, 1828 ARQ-E3 Sen, idling in 192/425. (RB) RFTJ: FF Dakar 1335 ARQ-E3 192/400 Idle (RR2)
14936.5 NNN0MDE: USN MARS 1445 ARQ. Unid USN Mars, Bahrain 1600 ARQ. (ANEE) NNN...: Usn Mars Fl/Bhr 2120 ARQ/FEC Qra (RR2)
14943.7 MFA Cairo 1315 ARQ fm Addis Ababa (selcall-kkvb) @1315-1415 (ANEE)
14945 MFA Warsaw, POL? 0730 ARQ-POL 100 (ANEE)
14948 MFA Cairo 1330 ARQ Msg Ara (RR2)
14950 Unid: 0945 ARQ-E 288 bnd (ANEE)
14958 Unid: A Tur. ? 1010 FEC-A 144/850 End (RR2)
14961.7 EGYPTIAN EMB, MOSCOW 1125 ARQ 100 encr msgs (EW)
14966.7 MFA Cairo 1215 ARQ wkg Moscow (ANEE) A Egi. Mosca 1430 FEC Msg Ara (RR2)
14970.3 MFA Stockholm 1030 ARQ-SWE 100bd fm tehran weak (ANEE) SAM: MFA

Stockholm 1335 SWE-ARQ 100/400 Msg Sve (RR2)
14971.7 A Egi. Mosca 1625 FEC Msg Ara (RR2)
14975 P6Z: MFA Paris 0705 FEC-A 192/400 Msg FF.(RR2)
14980 RAU: Brotherhood 1410 RTTY 75/400 Qra (RR2)
14981 Unid: 1400 RTTY 75/500 Press Sla (RR2)
14987 Unid: 1350 RTTY 75/500 Msg Sla (RR2)
14987 DOR: MFA Sofia 1430 RTTY 75/400 Msg Bul (RR2)
14987 Unid: 1545 IRA-ARQ 240/400 Undecoded (RR2)
14989 TNL: As. Brazzaville 1455 ARQ-M2 96/400 Wx + Msg (RR2)
15460.5 Unid: 1322 ?????? 12 tone ? ? UNID 12 tone system, sounds much like Coquelet (Center channel idle state). (ED)
15633 HMF26: Kcna 1000 RTTY 50/250 Press Ing (RR2)
15644.9 MAP 1305 RTTY 50/400 Press Ing (RR2)
15654.9 CNM65.1: MAP 1305 RTTY 50/500 Press Ing (RR2)
15660.3 DOR: MFA Sofia 1045 RTTY 150/500 nx items (DG)
15664.9 MAP 1305 RTTY 50/400 Press Ing (RR2)
15684.9 MAP 1610 RTTY 50/400 FF Press. (RR2)
15688 German BND 1015 ARQ-E 288 BND wkg Mossad (ANEE)
15691.5 Unid: 1030 ARQ (ANEE)
15705 YZJ237: Tanjug 1500 RTTY 50/400 FF Press. (RR2)
15715 MAP 1700 RTTY 75/400 FF Press. (RR2)
15728.9 PCW1: MFA Den Haaf 1650 ARQ/FEC Idle (RR2)
15729.2 MFA Den Haag 1030 F7B 100 (ANEE)
15730.3 MFA Den Haag 1315 F7B 100 usually 15730.5 (ANEE)
15731 Suna 1505 RTTY 50/135 Press Ara (RR2)
15746 SNN299: MFA Warsaw 0900 POL-ARQ 100/200 Msg Pol (RR2)
15761.7 MFA Cairo 1300 ARQ wkg Prague. New freq (ANEE)
15790.5 Unid: 1430 PIC-12 20/20 Undecoded (RR2)
15792 A Pol. Kinshasa 1615 POL-ARQ 100/300 Idle (RR2)
15801.7 MFA Cairo 1330 ARQ wkg Central Europe, Baltic states, Bonn (ANEE)
15821.9 SAM: MFA Stockholm 0750 SWE-ARQ 100/400 Cripto 5 (RR2)
15826.6 Unid: 1330 UN-PACTOR 200 (ANEE)
15833 MFA Bucarest 1500 ROU-FEC 164/400 Msg Rum (RR2)
15841.6 MFA Ankara 1000 FEC-A 144bd fm addis ababa 1000-1100 (ANEE)
15841.6 Unid 1015 UN-PACTOR 200 tfc (ANEE)
15855.5 MK-6 MTS Falkland Is 2318 Piccolo to MKK, Op msg. re:QSY to fz13/Kilo. (ED)
15857.6 Unid: 1035 RS-ARQ 228/170 Undecoded (RR2)
15858.5 A Ted. Madrid 2100 ARQ-E 96/170 Idle (RR2)
15860 RXXF: 1030 ARQ-E 72 wkg rffxi (ANEE) [RXXF is MOD Paris, F -LOGS]
RFFX: Mod Paris 1540 ARQ-E 72/400 Idle (RR2)
15862 SAM: MFA Stoccolma 1335 SWE-ARQ 100/400 Msg Sve (RR2)
15871 Unid: 1230 RTTY 50bd (ANEE)
15873 MFA Paris 1100 FEC-A 192bd idle 1100-1130 (ANEE)
15873 P6Z: MFA Paris 1550 FEC-A 192/400 Msg Fra (RR2)
15889.7 A Egi. Tripoli 1200 ARQ Msg Ara (RR2)
15892 TAD: MFA Ankara 0945 FEC-A 144/850 Press Ing (RR2)
15898 RFGW: MFA Paris 1720 FEC-A 192/400 Idle (RR2)
15904.5 PT-11: Irish Navy UTC? ARQ selcall cvvz is up on 15904.5 mhz. They should shift down to 4601.5 pretty soon, then 3451.5 & 2461.5 khz for the nighttime. He is out w/vsl PT-48 (selcall cvxt, unid hull). Usually there is a third vsl. (ANEE)
15917.7 8WB 1: A Ind. Belgrado 1410 RTTY 50/170 Qra (RR2)
15922.4 DGP42: Piab Bonn 1310 FEC-A 96/400 Press Ted (RR2)
15929.9 Embacuba 1230 RTTY 50/400 Msg Spa (RR2)
15935 SUA291: Mena 1710 RTTY 75/500 Press Ing (RR2)
15958 TAD: MFA Ankara 1530 FEC-A 144/850 Msg (RR2)
15959.7 MFA Cairo, EGY 1330 ARQ wkg Abu Dhabi, Beirut (ANEE)
15969.2 Unid: 1447 ARQ idling to 1455 (RM) [poss QSX of 15647.2, Dutch diplo w/Dutch embassy Khartoum noted -LOGS]
15988.5 DUTCH EMB ? LOC 0735 TWINPLEX 100 -/-/+85/+255. F7b-4.irs mode. (DW) [Dutch embassy Teheran noted here before -LOGS]
16008 DOR: MFA Sofia 1510 RTTY 75/500 Cripto 5 (RR2)
16013.7 MFA Cairo 1400 ARQ. MFA Cairo 1045 ARQ tfc to Abu, Bhabi, Bahrain, Beirut, Tunis, Algiers, Khartoum, Rabat, Riyadh, Sanaa, Muscat, Amman, Dakar, Nairobi, Harare, Ndjamena, Dar Es Salaam, Kampala, Kinshasa, Conakry, Laounde, Lagos, Asmara, Guinea-Bissau, Havana-all rcv msgs (ANEE) MFA Cairo 1540 ARQ Msg Ara (RR2)

16013.8 DFQ21: Piab Bonn 1010 FEC-A 96/400 Press Ted (RR2)
16014.5 MFA Sofia 1415 ITA2 75 up right after cairo on 16013.7 went down. (ANEE)
16016.7 MFA Cairo 1345 ARQ wkg Belgrade, Rome, Vatican, Vienna, Madrid, Nicosia, Havana & Baghdad w/health ministry circulars (ANEE)
16017.4 Unid: 1550 RS-ARQ 228/170 Undecoded (RR2)
16017.4 Piab Bonn 1500 FEC-A 96/400 Press Ted (RR2)
16018.6 DFQ21: Piab Bonn 1000 FEC-A 96/400 Press Ted (RR2)
16020.4 Unid: 2200 RS-ARQ 228/170 Undecoded (RR2)
16023 A Ita. Teheran 0850 ARQ-E 96/170 Cripto 5 (RR2)
16040 DOR: MFA Sofia 1300 RTTY 75/400 Press Bul (RR2)
16041 Unid: 1218 POL-ARQ 100/170 ? ?Warsaw? Pol. press sent to Brasilia. (ED)
16042 P6Z: MFA Paris 1605 ARQ-6/90 200/400 Idle (RR2)
16071 MFA Cairo 1325 ARQ Msg Ing (RR2)
16077.6 FDY: French Air Force, Orleans, F 1415 RTTY 50 fdy test (ANEE)
16087.7 RFVI: FF Le Port 1530 ARQ-E3 100/400 Idle (RR2)
16091.7 MFA Cairo, EGY 1345 ARQ wkg Washington (ANEE)
16094.4 UNHCR Chechnya 1315 PACTOR 200 (ANEE)
16104.7 MFA Cairo 0948 ARQ atu-80 msgs (DG)
16105 DOR: MFA Sofia 1030 RTTY 150/500 Msg Bul (RR2)
16107 SAM93: Swedish Emb. Havana, CUB 1518 SWED-ARQ 100 w/5LGs & msgs/SS (RM) SAM: MFA Stoccolma 1540 SWE-ARQ 100/400 Msg Sve (RR2)
16108 Unid: 1510 RTTY 75/400 Cripto 5 (RR2)
16110 Unid: 1127 RTTY 75 Unid scrambled mgs (BvR)
SNN229: MFA Warsaw 1210 POL-ARQ 100/250 Msg Pol (RR2)
16115 DOR: MFA Sofia 1050 RTTY 75/400 Cripto 5 (RR2)
16117 6VK317: PANA, SEN 1136 RTTY 50 FF nx. (BvR) 6VK317: Pana Dakar 1200 RTTY 50/400 Press Ing (RR2)
16124.1 Unid: 1015 RTTY 50 encrypted 1015-1030 poss Tunisia-Sudan/Chad link. (ANEE)
16125.2 RFQP: DJI 1138 ARQ-M2 200 FF Jibuti idling (BvR)
RFQP: FF Jibuti 1325 ARQ-M2 200/400 Idle (RR2)
16134 Map 1140 RTTY 50/400 Press Fra (RR2)
16136 BZR66: Xinhua 1045 RTTY 75/400 Press Ing (RR2)
16138.5 Unid 1220 Unid sounds like packet but baud speed says 166.5 or 333 baud who is this? (EW)
16165.2 RFFA: Mod Paris 1320 ARQ-M2 200/400 Idle (RR2)
16175.5 NNN0NHA: Usn Mars Virg. 1620 FEC Msg Ing (RR2)
16179 Unid: 1520 PIC-12 20/20 Undecoded (RR2)
16183 5YE: Nairobi Meteo 1320 RTTY 100/400 Wx (RR2)
16185 CLP22: Cuban Emb., Hanoi, VTN 1811 RTTY 75/500 w/economica minrex tfc to Havana. CW msgs in SS at 1821 (RM)
16188 Unid: 1200 RTTY 140!/400 Confirmed baudrate, clear text, "73 sk bj",Czech. (ED)
16193.2 RFQP: FF Jibuti 1400 ARQ-M2 200/400 Idle (RR2)
16200.1 A Pol. Phnom P. 0825 POL-ARQ 100/250 Cripto 5 (RR2)
16203 A Egi. Delhi 0935 ARQ Msg Ara (RR2)
16206 MKK: Raf London 1720 PIC/VFT 20/20 Cripto (RR2)
16208 Unid: 1600 PIC-12 20/20 Undecoded (RR2)
16213 MFA Paris UTC? ARQ6-90 200bd msg servicing (ANEE) "DKRX:" French Emb., Dakar, SEN 1730 ARQ6-90 200 w/5LG (RM) DKAR: A Fra. Dakar 0935 ARQ-6/90 200/400 Cripto 5 (RR2)
16216 Unid: 1115 USB Poss. French UNHCR? Goma, Zaire, very strong (ANEE)
16221 MFA Warsaw 1415 ARQ-POL 100 wkg Tel Aviv. New freq later schedule. (ANEE)
16224.2 Unid: 1445 RTTY 75/500 w ry's + bpa bpa bpa 5/573 into five 5LG msgs w/nbrd hdrs beginning w/11177. (RM) [SOUD/Brotherhood link 11177 -LOGS]
16226.5 RFFXI: FF Bangui 1515 ARQ-E 72/400 Idle (RR2)
16242 U3H: A Fra. Mosca 1650 FEC-A 192/850 Msg Fra (RR2)
16245 O6P: A Fra. ? 1150 FEC-A 192/400 Cripto 5 (RR2)
16246 A Pol. Tripoli? 1330 POL-ARQ 100/250 Msg Pol (RR2)
16247 RK2: Mossad 1030 RTTY 75/400 Qra (RR2)
16253 Unid: 0900 RTTY 100/400 Cripto 5 (RR2)
16260 PZ6: MFA Paris 1150 FEC-A 192/400 Cripto 5 (RR2)
16267 Unid: 2030 FAX 120/576 wx map, any ideas for location? EW
16273.8 MFA Algeri 0930 COQ-8 26/30 Press Ara (RR2)

16280 RFQP: FF Jibuti 1450 ARQ-M2 200/400 Idle (RR2)
16285.9 Unid: MFA Oslo ? 1100 TWINPLEX 100/400 Msg Nor (RR2)
16301 MFC6: 1337 CW/RTTY MFC6 sending "VVV VVV VVV DE MFC6 MFC6" brief service message followed by test transmissions in 425 Hz RTTY. The RTTY transmissions were so short that I was unable to get the decoder online to copy the digital mode (MC)
16302.2 DFZG: MFA Belgrado 1430 RTTY 75/400 Cripto (RR2)
16304 OMZ: MFA Prague 1200 RTTY 100/400 Cripto (RR2)
16305.7 RFTPC: FF N'Djamena 1500 ARQ-E3 200/400 Idle (RR2)
16311.5 C37A: Mossad 1130 ARQ-E 192/300 Cripto (RR2)
16312.5 Mossad: 1015 ARQ-E 288 Mossad>BND (ANEE) C37A: Mossad 1505 ARQ-E 288/350 Cripto (RR2)
16318 MFA Algeri 1500 COQ-8 26/30 Msg Fra (RR2)
16318.7 MFA Cairo, EGY 1345 ARQ (ANEE)
16322 A Rom. Tel Aviv 0940 ROU-FEC 218/500 Cripto (RR2)
16327.7 MFA Cairo, EGY 1030 ARQ 1030-1930 (ANEE)
16332 MFA Bucarest 1440 ROU-FEC 164/400 Msg (RR2)
16337 Unid: 1639 ARQ6-90 200 "316" u/i French diplo, s/o msg to "319" then to CW w/3 dashes & QRT (RM)
16339.5 CJL: Mossad Nicosia 0720 ARQ-E 96/350 Idle (RR2)
16342.5 MFA Bucharest 1306 ROU-FEC 218/400 diplo tfc (DG)
16354.2 A Rom. Madrid 1100 ROU-FEC 218/400 Cripto (RR2)
16355 OMZ: MFA Prague 0810 RTTY 100/400 Msg Cec (RR2)
16453.5 HGX21: MFA Budapest 1545 DUP-ARQ 125/170 Cripto (RR2)
16650 UCE: Arkhangelsk R., RUS 1721 FEC w/nx in RR (RM)
16653 Unid 1539 Pactor u/i w/msgs in Czech (RM)
16684 UTOK: TKH Akademik Evgeniy Paton 1607 ARQ w/DISP-1 reports to Odessa Radio. (RB)
16688.5 VORX: M/T Thalassa Desgagnes 1648 ARQ w/tlx for ETA Rio Haina. (RB) P3CF6: M/V AGIA THALASSINI 2038 ARQ W/TLX LOGIN: 23180 AGTH. (WT)
16689 3FVK3: UNID 2248 ARQ W/AMVER TFC 3150N 16545W. ETA BALBOA. (WT) [M/V Hai Ji -LOGS]
16689.5 ENWU: UNID 1934 ARQ CHKIN QRU, LOGIN: 67799 ENWU. CAN'T ID THIS ONE. (WT) [M/V Roman Karmen -LOGS]
16690 LAUG4: M/V Brunto 1618 ARQ w/posn tlx, 3017N/04509W, ETA Panama, login 26215 BRUNTO. LAIK4: M/V Swan Stream 1635 ARQ w/AMVER tfc.(RB)
16690.5 KEOD: SS Nuevo San Juan 1614 ARQ w/tlx for bunkers/ballest status, login 10631 KEOD. P3WW5: M/V Commander 1617 ARQ w/noon posn report, 2609N/05354W, ETA Amsterdam. (RB)
16693 LXBU: M/V ELLEN HUDIG 2120 ARQ W/AMVER/PR 0400S 09252W. LOGIN: 36249 LXBU. (WT)
16694 SVKY: M/V Paraskevi II 1635 ARQ w/tlx for ETA Santana pilot, login 36586 SVKY. (RB) HQNE9: M/V MARCOS DIAS 2015 ARQ W/TG'S IN SS. 3138N 12305W ETA BALBOA 2-4, ETA FORTALEZA 2-14. (WT)
16696.5 WLBV: RICHARD G MATTHIESEN 2010 ARQ SNDG MSG RCVD FM AYUBIA/AQPA OF CAPSIZED BOAT AT 2724N 09437W. (WT)
16697 3EZS8: M/T FANDANGO 2015 ARQ W/TLX LOGIN: 26210 FANDAN. LXDC: CRYSTAL PRIMADONNA 1920 ARQ W/TLX LOGIN: 29056 LXDC. C6KR7: WINTER MOON 2054 ARQ W/TLX TO: WINTER WAVE. LOGIN: 26125 WINMON. 5LPH: M/V WORLD WOOD 2203 ARQ RX TFC. LOGIN: 29360 5LPH. (WT)
16699.5 P3VI2: M/V Antigonos 1701 ARQ w/tlx in app GG, login 29330 P3VI2. C4XB: M/V Sentosa 1723 ARQ w/posn report to Clipper Denmark. C4ZB: M/V Coryton 1815 ARQ w/noon report tlx, posn 2417N/08258W, ETA Lisboa. C6IE6: M/V Snow Flower 1835 ARQ w/BBXX wx obs via SAB to "Meteo Norrkoping", login 61724 SNOW. 9HWW3: M/V Gruz 1846 ARQ w/tlx to Amsterdam. (RB)
16702 LAQM4: M/V Siboelf 1725 ARQ w/AMVER/PR, login 29012 LAQM. (RB)
16703 3EYB6: M/V Kudu 1733 ARQ w/noon report tlx. (RB)
16706.5 WGJT: SS Kaimoku 1714 ARQ U.S. flagged Ro/Ro container ship, w/QRG report via KFS. (RB)
16710 UNOJ: TKH Dekabrist 1642 ARQ w/tlx re agents info. (RB)
16793.5 DZJ: Microwave Communication Bulacan, PHL 1847 FEC w/nx of PHL in EE (RM) [this has also been reported as Filipino crewed ships relaying this nx broadcast to each other -LOGS]
16807.5 PORTISHEAD RADIO (GKE6) 1325 CW/ARQ Marker "GKE6" & tuning bursts. (DW)
16810.5 ST LYS RADIO (FFT81) 1327 CW/ARQ Marker "FFT" & tuning bursts. (DW)
16811.5 BAHRAIN RADIO (A9M) 1329 ARQ Wkg unid ship. Then marker "de A9M tlx"

& tuning burst. (DW)
16812 MOBILE RADIO (WLO) 1333 CW/ARQ Marker "WLO" & tuning burst.. (DW)
16813 MOSCOW RADIO (UAT) 1335 CW/ARQ Marker "de UAT" & tuning burst. (DW)
16814 MOBILE RADIO (WLO) 1337 CW/ARQ Marker "WLO" & tuning burst. (DW)
16829 UBN: Mariupol R. 1800 ARQ Msg Rum (RR2)
16830.5 SVU6: Athens R. 1410 FEC Msg Gre (RR2)
16836.5 WLO: USA 1525 ARQ Mobile Radio tlx tfc to ppux (BvR)
16841.1 JMS: 2230 RTTY following tfc was passed to 'JMS' on link 00127. Possible Frequency changes:1. QWK QDG FM 02/02 TO NEXT QWK: FM 00.00 TO 13.00 QSW 9419/ 7945/10404,FM 13.00 TO 24.00 QSW 13350/15796/ 10404. 2. QUC? TIKAS SEE UR QSL QPP. This was preceeded by the following traffic references & request to relay. (EW2) [Ary sez this is SOUD Havana, JMS is indeed the recepient. This is the freq sked for the period 2/02 till the next announcement -LOGS]
16905 FUV: DJI 1517 RTTY 75 FN Djibuti, ryryryryryr de fuv fuv. (BvR)
17049 UFB: Odessa R. 1620 RTTY 50/170 Msg Rus (RR2)
17191 Unid ?/170 don't know what this is. sounds like sstv.off at exactly 0430 UTC. Any ideas? (EW)
17280 Unid: 1510 RS-ARQ 228/170 Undecoded (RR2)
17400 Unid: 0710 RTTY 150/400 Wx (RR2)
17413.6 CLP23: Embacuba Lagos 1615 RTTY 50/400 Msg Spa (RR2)
17416.9 MFA Stockholm 1430 ARQ-SWE 100 new circuit (ANEE)
17432 DFZG: MFA Belgrado 1430 RTTY 75/400 Qra (RR2)
17441.5 5YE: Nairobi Meteo, KEN 1040 RTTY 100/850 wx (EW) 5YE: Nairobi Meteo, KEN 1910 RTTY 100/850 coded wx (RM) 5YE: Nairobi Meteo 1300 RTTY 100/800 Wx (RR2)
17443 BZ648: Xinhua 1255 RTTY 50/425 Press Fra (RR2)
17445.5 5YE: Nairobi Meteo, KEN 1045 FAX 120/576 wx maps (EW)
17460 Unid: 1045 RTTY 50 encrypted tfc (ANEE)
17462.7 RFPTC: FF N'Djamena 1635 ARQ-M2 200/400 Idle (RR2)
17464 Unid: 0547 RTTY 75/425 5LGS off at 0600. No id. (EW)
17464 Unid: MFA Bucarest? 1300 ROU-FEC 164/400 Msg Rum (RR2)
17468 HGO24: Mti Budapest 0815 RTTY 50/400 Press Ing (RR2)
17470 Unid: 1615 VFT 0/0 Vedi Note (RR2)
17476.7 MFA Cairo, EGY 1130 ARQ wkg Paris (ANEE) MFA Cairo 0930 ARQ Cripto (RR2)
17483 MFA Bucarest 1040 RTTY 75/400 Msg Rum (RR2)
17521.6 HSW61: Bangkok Meteo 1910 RTTY 50/400 Wx (RR2)
17550.9 RFTJ: FF Dakar 1630 ARQ-E3 192/400 Idle (RR2)
17590 HZN49: Jeddah Meteo, SAU 1037 RTTY 100/850 wx (EW) HZN49: Jeddah Meteo 1425 RTTY 100/800 wx tfc (DG) HZN49: Jeddah Meteo 1500 RTTY 100/400 Wx (RR2)
17934 SNN299 : MFA Warsaw 1145 POL-ARQ 100/250 Msg Pol (RR2)
18013.7 RFFA: Mod Paris 1255 ARQ-M2 200/400 Idle (RR2)
18021.7 MFA Cairo 1530 ARQ Msg Ara (RR2)
18038 MFA Cuba 1917 RTTY 50/400 Havanna hand typed Sp. Msg.,10/9 sig, Havanna to Congo, MFA Cuba. (ED)
18040.5 HGX21: MFA Budapest 0700 DUP-ARQ 125/170 Msg Ung (RR2)
18040.9 HGX42: A Ung. Teheran 0810 DUP-ARQ 125/170 Msg Ung (RR2)
18050 SNN299: MFA Warsaw 1020 POL-ARQ 100/200 Msg Pol (RR2)
18055 DFZG: MFA Belgrado 1420 RTTY 75/400 Cripto (RR2)
18059.1 MFA Warsaw 1330 ARQ-POL 100 wkg Ottawa till 1515 (ANEE)
18060 SNN299: MFA Warsaw 1530 POL-ARQ 100/250 Msg Pol (RR2)
18064 SNN299: MFA Warsaw 1045 POL-ARQ 100/200 Msg Pol (RR2)
18066.4 Icrc 1430 PACTOR 200/200 Msg Ing (RR2)
18066.5 MFA Jakarta 1145 ARQ fm ankara 1145-1330 (ANEE)
18082 SNN299: MFA Warsaw, POL 0408 POL-ARQ 100 5 ltr grps w/poor signal. (EW)
18092 SNN299: Warsaw. POL 2216 POL-ARQ 100/300 6 CRC, Pol msg. to emb.in Brasilia. (ED)
18173.5 STK: KHARTOUM AIR 1314 RTTY 50/400 ry's and "qjh HSSSYFHX" tests.(DW) STK: Khartoum Air 1120 RTTY 50/400 Qra (RR2)
18174.2 Unid: 1145 POL-ARQ 100/250 Msg Ing (RR2) [Ary sez MFA Warsaw -LOGS]
18187.5 SAM: MFA Stoccolma 1500 SWE-ARQ 100/400 Msg Sve (RR2)
18203 P6Z: MFA Paris 1600 ARQ-6/90 200/400 Idle (RR2)
18211.7 Unid: A? 1445 FEC Cripto 5 (RR2)
18211.7 MFA Cairo 1330 ARQ Msg Ara (RR2)
18220 JMH5: Meteo Tokyo 0405 FAX 120/576 weather map (EW)

18221 CNM76X9: Map 1000 RTTY 50/425 Press Fra (RR2)
18230 GLF25: Bracknell Meteo 1250 RTTY 75/400 Wx (RR2)
18237 BAF33: Meteo Beijing 0403 FAX 120/576 weather map (EW)
18238.1 ZRO4: PRETORIA MET 1512 FAX 120/576/R/800 Surface analysis for S Africa & Southern Oceans to Antarctica. (DW)
18242 ZRO4: Pretoria Meteo 1700 RTTY 75/400 Wx (RR2)
18250 Brotherhood 0950 RTTY 75/500 Cripto 5 (RR2)
18254 SUU: Cairo Meteo 1300 RTTY 75/850 Wx (RR2)
18265 CNM78: MAP Rabat, MRC 1153 RTTY 50 FF nx. (HS) CNM78: Map 1255 RTTY 50/400 Press Ing (RR2)
18289.4 Unid: 1500 RS-ARQ 228/170 Undecoded (RR2)
18319 OMS: MFA Bratislava 1120 RTTY 100/400 Msg Sla (RR2)
18320 OMZ: MFA Prague, CZ 1033 RTTY 75/425 5LGS (EW) OMZ: MFA Prague 0850 RTTY 100/400 Msg Cec (RR2)
18332 Unid: 1120 RTTY 75/400 Cripto 5 (RR2)
18380.2 RFFA: Mod Paris 1250 ARQ-E3 100/400 Idle (RR2)
18388.5 TRIPOLI AIR (5AF) 1320 RTTY 50/340 ry's and "qjh HllTYF" tests. (DW)
18401.5 MFA Jakarta 1310 FEC-S 96/170 Msg Ing (RR2)
18410 Unid: 1000 RTTY 75/400 Cripto 5 (RR2)
18411.7 MFA Jakarta 1200 FEC-S 96/170 Press Ing (RR2)
18420 7A1: A Cec. Baghdad 1330 RTTY 100/400 Msg Sla (RR2)
18422 CLP22: Embacuba Hanoi 1415 RTTY 75/500 Cripto 5 (RR2)
18441.2 JMJ5: Meteo Tokyo 0400 FAX 120/576 weather map (EW)
18451.5 MFA Jakarta 1415 ARQ wkg Bangkok, Lagos (ANEE)
18487.8 MFA Oslo 1105 TWINPLEX 100/0 Msg Sve (RR2)
18496.1 CNM80X1: Map 1250 RTTY 50/425 Press Ing (RR2)
18506.6 MFA Jakarta 1315 RTTY 50/200 Msg Ind (RR2)
18526.7 A Alg. Beirut? 1120 COQ-8 26/30 Msg Ing (RR2)
18529.4 A Alg. Varie 1510 COQ-8 26/30 Msg Fra (RR2)
18552 MFA Bucarest 1110 ROU-FEC 164/400 Cripto (RR2)
18553.7 RFTJ: FF Dakar 1700 ARQ-E3 200/400 Idle (RR2)
18556 A Ita. Delhi 1230 ARQ-E 96/200 Msg Ita (RR2)
18561 9BC31: Irna 1120 RTTY 50/400 Press Ara (RR2)
18572 Unid: 1000 POL-ARQ 100/170 Msg Ing (RR2) [Ary sez the Polish Embassy in Iraq was previously noted here -LOGS]
18576.8 MFA Jakarta? 1130 F7B 100 tfc 1130-1230 also sometimes 18576.9 (ANEE)
18597.5 Spanish embassy, London 1215 ARQ wkg MFA madrid. Also using F7B 100 (ANEE)
18598.3 Unid: 0357 RTTY 100/850 encrypted text. Off at around 0800 usually. (EW)
18629 Unid: 1200 RTTY 100/400 Msg Sla (RR2)
18648.5 SOT265: Pap Warsaw 1405 FEC 100/170 Press Pol (RR2)
18688 SAM: MFA Stoccolma 0700 SWE-ARQ 100/300 Msg Sve (RR2)
18692.7 Unid: 1230 ARQ-S 96/200 Msg (RR2)
18697.3 Piab Bonn 1320 FEC-A 96/400 Press Ted (RR2)
18704.3 DFS70: PIAB Bonn, G 1025 FEC-A 96 German news (EW) DFS70: Piab Bonn 0945 FEC-A 96/400 Press Ted (RR2)
18721.7 MFA Cairo 1430 ARQ Msg Ara (RR2)
18731.7 Unid: 2255 RTTY 75 Sent SXV NOLSXV NOLSXV NOLSXV DE NOEM then encrypted (EW)
18750.5 MKK: Raf London 1025 PIC/VFT 20/20 Msg Oper. (RR2)
18757.3 Unid: A Alg.? 1350 COQ-8 26/30 Press Fra (RR2)
18762 MFA Bucharest, ROU 1140 ROU-FEC msgs. (HS) MFA Bucarest 1135 ROU-FEC 164/400 Msg Rum (RR2)
18872 BZR68: Xinhua 1245 RTTY 75/400 Press Ing (RR2)
18881.9 BRZX: Unid 1615 ARQ-6/90 200/400 Cripto 5 (RR2)
18912 TAD: MFA Ankara 1500 FEC-A 144/850 Msg Tur (RR2)
18935.5 GYU: RN Gibraltar 1140 PIC-6 20/20 Test (RR2)
18940 BDF: Meteo Shanghai 0350 FAX 120/576 weather map (EW)
18952 TAD: MFA Ankara 1340 FEC-A 144/850 Msg Tur (RR2)
18966.7 RFHJ: French Forces, Papeete, Tahiti 1725 ARQ-E3 100/425 idling, was 96 baud. (RB)
18993.5 SPW: Warsaw R. 1520 ARQ Tlx Pol (RR2)
19027 PWX33: BN Brasilia 2100 RTTY 75/850 Test (RR2)
19028.6 A Fra. Riyadh 1500 COQ-8 26/30 Msg Fra (RR2)
19031.4 Con Alg.Jeddah 0735 COQ-8 26/30 Msg Fra (RR2)
19031.7 MFA Islamabad, PAK 1230 F7B 100 wkg Algiers (ANEE)
19092 DJBT: Unid 1430 ARQ-6/90 100/400 Cripto 5 (RR2)

19101.7 RFLI: FF Fort de France, Martinique 1520 ARQ-E3 192/400 Idle (RR2)
19130 FSB61: Interpol Lyon, F 1020 ARQ encrypted msgs (EW)
19141.4 A Alg. Abidjan 1100 COQ-8 13/30 Msg Fra (RR2)
19160.3 DOR: MFA Sofia 1030 RTTY 150/500 Msg Bul (RR2)
19171 CNM85X11: MAP Rabat, MOR 1019 RTTY 50/425 news in E (EW)
CNM8511: Map 1240 RTTY 50/400 Press Ing (RR2)
19204.7 RFLI: French Forces, Fort de France, Martinique 1745 ARQ-E3 192/425 idling.(RB) RFLI: FF Fort France 1625 ARQ-E 192/400 Idle (RR2)
19266.7 MFA Cairo, EGY UTC? ARQ (ANEE)
19306.7 PCW8: A Ola. Tripoli 1540 ARQ Idle (RR2)
19309.5 4UZ: Uno Ginevra 1525 PACTOR 200/200 Msg Ing (RR2)
19313 UNHCR Zaire 1500 ARQ wkg Geneva, then stepped on by pactor 200 UNHCR Tbilisi Georgia and/or Monrovia, Liberia at 1515 mid-msg! (ANEE)
4UZ: Uno Ginevra 1415 PACTOR 200/200 Msg Ing (RR2)
19320 OMZ: MFA Prague, CZ 1017 RTTY 100/425 DIPLO MSGS IN CZECH (EW)
19357 MFA Lagos 1345 FEC-A 96/650 Msg Ing (RR2)
19360 DOR: MFA Sofia 0900 RTTY 75/500 Msg Bul (RR2)
19400 VVD69: Delhi Meteo 1051 RTTY 50/250 wx tfc (DG) VVD69: Delhi Meteo, Ind 1014 RTTY 50/170 wx (EW) VVD69: Delhi Meteo 0850 RTTY 50/170 Wx (RR2)
19463 Suna 1015 RTTY 50/850 Press Ing (RR2)
19567.7 A Egi. Libia 1220 ARQ Msg Ara (RR2)
19608.5 A Pol. Nairobi 1400 POL-ARQ 100/200 Msg Pol (RR2)
19647 S5F: Unid 1710 FEC-A 192/850 Cripto 5 (RR2)
19672 A Pol. Lagos 1730 POL-ARQ 100/250 Msg Pol (RR2)
19724.5 UIW: Kaliningrad Radio, RUS 1010 RTTY 50/170 Russian msgs WTSCA (EW)
19746.7 Unid: 0340 RTTY 75/850 encrypted. runs for hours every day! (EW)
19747.5 6VU79: Dakar Meteo 1420 RTTY 50/400 Wx (RR2)
19850 MFA Bucarest 1410 ROU-FEC 164/400 Msg Rum (RR2)
19856 Unid: 1100 ARQ-E 192/170 Cripto (RR2)
19858 NPN: Apra Harbour Guam 0347 FAX 120/576 weather map (EW)
19860 GYA: RN London, G 1247 RTTY 75 availability. (HS)
19860 MTO: RN Rosyth 1100 RTTY 75/800 Com Canali (RR2)
19862 NPN: Apra Harbour Guam 0342 FAX 120/576 wx map (EW)
19980 9BC33: Irna 1520 RTTY 50/400 Press Ing (RR2)
20040 Unid: 1145 RTTY 75/500 Cripto 5 (RR2)
20046.5 Boufarik Radio 1430 FEC (ANEE)
20056.7 MFA Cairo 0935 ARQ Msg Ara (RR2)
20059.7 MFA Cairo? 1545 ARQ unid off at 1545 MFA cairo? (ANEE)
20071.2 HGX21: MFA Budapest 0700 DUP-ARQ 125/170 Msg Ung (RR2)
20085 ISX20: Ansa 1215 RTTY 50/425 Press Ing (RR2)
20092 DJBX: A Fra. Jibuti 1650 ARQ-6/90 200/400 Cripto 5 (RR2)
20107 Msf Kikwit 0945 ARQ FF Msg. (RR2)
20113.3 FJY2/4: Dtre Ker/Ams 1030 ARQ-E3 96/400 Msg Fra (RR2)
20130 Unid: 0920 RTTY 100/400 Cripto 5 (RR2)
20204 YZJ: Tanjug 1420 RTTY 50/400 Press Ing (RR2)
20221.7 MFA Cairo 0745 ARQ Idle (RR2)
20224 Unid: 1540 PIC/VFT 20/20 Cripto (RR2)
20266 Unid: 1500 PIC/VFT 20/20 Cripto (RR2)
20286.5 SOV228: Pap Warsaw 1355 FEC Press Pol (RR2)
20400.5 Unid: 1400 PIC-12 20/20 Undecoded (RR2)
20401.5 A Ind.? 1335 ARQ Idle (RR2)
20415 CPL210: A Cub. Delhi 0725 RTTY 75/500 Msg Spa (RR2)
20420.6 Unid: 0955 RS-ARQ 228/170 Undecoded (RR2)
20425.9 Unid: 1440 PIC/VFT 20/30 Cripto (RR2)
20427 NDJA: A Fra. Ciad 1545 ARQ-6/90 200/400 Cripto 5 (RR2)
20450.7 A Alg. Nairobi 1300 COQ-8 13/30 Msg Fra (RR2)
20472.9 CXR: Montevideo Navy 1430 RTTY 75 (ANEE)
20500.6 DFU50: Piab Bonn 1417 FEC-A 96/400 Press Ted (RR2)
20560 Jana 1625 RTTY 50/400 Press Ing (RR2)
20584 Salcost 1440 ARQ Msg (RR2)
20599.5 Unid: 1130 RTTY 75 encrypted msgs. (HS)
20600 MKK: Raf London 1445 RTTY 50/850 Test (RR2)
20633.7 RFVI: FF Le Port 1100 ARQ-E3 100/400 Idle (RR2)
20640 Dw Trincomalee 0810 RTTY 100/250 Ry (RR2)
20690 Brotherhood 0950 RTTY 75/500 Cripto 5 (RR2)
20716.7 RFTJD: FF Libreville 1515 ARQ-E3 192/400 Cripto 5 (RR2)
20724.2 RPFN: PN Lisbona 1515 RTTY 75/800 Test (RR2)

20730.6 4UZ: Uno Ginevra 1535 PACTOR 200/170 Msg Fra (RR2)
20734 Uno Varie 1055 PACTOR 200/170 Msg Ing (RR2)
20754.4 HBC88: Icrc Ginevra 0730 PACTOR 200/170 Msg Ing (RR2)
20792 PWX: BN Brasilia 1515 RTTY 75/800 Qra (RR2)
20798 Unid: A Pol. ? 0900 RTTY 75/250 Msg Pol (RR2)
20801.3 Icrc Varie 1650 PACTOR 200/200 Msg Fra (RR2)
20813.7 RFTJD: FF Libreville 1330 ARQ-M2 192/400 Idle (RR2)
20815 Unid: 1300 PACTOR 200/170 Msg Ing (RR2)
20826 Embacuba 1410 RTTY 75/500 Msg Spa (RR2)
20826 Embacuba 1410 RTTY 75/500 Msg Spa (RR2)
20856.7 RFQP: FF Jibuti 1430 ARQ-M2 200/400 Idle (RR2)
20933.5 SOV293: PAP Warsaw 1350 FEC 100/170 Press Pol (RR2)
20944 SAM: MFA Stoccolma 1330 SWE-ARQ 100/400 Msg Sve (RR2)
20953 Unid: 0800 POL-ARQ 100/250 Msg Pol. A Pol. Kinshasa 0830 POL-ARQ 100/250 Msg Pol (RR2)
20976.7 MFA Islamabad 0333 ARQ msgs in EE re diplo matters. (EW)
20979 Unid: 1420 RTTY 75/850 Cripto (RR2)
20972 Embacuba 1630 RTTY 75/400 Msg Spa (RR2)
20986.7 A Fra. Guyana 1430 ARQ-6/90 200/400 Cripto 5 (RR2)
21927.7 Unid: 1430 ARQ-M2 200 (ANEE)
22542.5 JJC: Kyodo News 0412 FAX 60/288 japanese text (EW)
23370 HZN50: Jeddah Meteo 0710 RTTY 100/540 Wx (RR2)
25006 Unid: 1545 FAX unid new service? 1545 (ANEE)
26588.2 Unid: 1345 ARQ-M2 200 FF tfc 1345-1430 (ANEE)
26677.5 SPW: Warsaw Radio 1415 FEC (ANEE)
26708 Unid: 1415 RTTY 50 unid meteo (ANEE)

=MARITIME=

2031.5 ELKI6:M/S Fantasy 0541 USB clg/wkg AT&T Coastal Station WOM (on 2490) re R/T tfc, vsl is Carnival Cruise Lines 70,367 GWT, cruiseship. (RB)
2118 3EKU5: M/V River Plate 0459 USB wkg VCS, Halifax CG Radio (on 2514) for R/T call to Greece. (RB)
2182 MQSW9: 1820 USB Unid clg Humber radio qsy chnl Q. PGTZ: 1712 USB MV Pluto clg Genova Radio Qsy 2722 2023. VCO: CAN 0519 USB Sydney CCGR ann MIB. ICMZ: 0525 USB MV Manzoni clg Palermo Radio. FFB: F 0527 USB Boulogne Sur Mer radio fr ann. VON: CAN 0545 USB St. John CCGR ww unid ship. VAU: CAN 0546 USB Yarmouth CCGR ann MIB. Unid E 0550 USB Palma radio ann tfc lst. VCS: CAN 0603 USB Halifax CCGR ann MIB. CUL: POR 0606 USB Lisbon radio ann tfc lst on 2693. OFH: FNL 0610 USB Mariehamn radio, no tfc for foreign ships. VON: CAN 0621 USB St. Johns CCGR ann gale wrng on 2598. VOO: CAN 0635 USB Comfort Cove CCGR ann gale warning. Portland CG, G 0536 USB clg Aberdeen cg for radio check. J8QA2: 0555 USB Unid mv clg Bordeaux radio Brest radio replying qsx to a wkg channel. GLD: G 0623 USB Lands End radio clg Stella Orion. (BvR) USCG Charleston, SC 0003 USB w/ann for MIB on 2670, then fq switch (DHM). ZBM: Bermuda Harbor Radio 0449 USB wkg unid vsl giving posn & sea state, ZBM adv USCG a/c 1503 is enrt to scene. Unid: ?-Haven Rescue 0636 USB w/2-tone alert signal, ann ?-#1, (faded) 5215N/00403E, poss was EPIRB activation, does anyone know of a coastal station that uses like ?-haven Rescue"? NMB: USCG Group Charleston, SC, US 0644 USB clg N5M no joy. NOJ: USCG CommSta Kodiak, Ak, US, 0657 USB clg USCGC Woodrush (WLB-407) no joy. N/A: Portishead Radio? 0735 USB w/ann to listen 1764 for b/cast. (RB)
2217.4 Unid maritime 0412 USB two guys, in EE re propeller shaft (w/Canadian "O" sound), suspect fishermen. (MS2)
2514 VCS: CCG Halifax CG Rdo, NS 0505 USB concluding R/T tfc w/3EKU5, M/V River Plate (on 2118). (RB)
2520 PHYC: 1821 USB Mv Thames clg PCG qsy chnl B. LAMY4: 1821 USB MV Tidero Star radio ck w/PCG. PGGM: 1824 USB Fv Nicolaas Senior kw 36 qsy chnl A. PIPS: 1655 USB FV Wilhelmina clg PCG qsy chnl B. PFKW: 1709 USB Ferry Koningin Beatrix clg PCG. PCCN: 1714 USB Mv Akila clg PCG for track pos 30 myl east Liverpool. PFKB: 1717 USB Mv Klippergracht track to PCG. PDOY: 1743 USB Fv De Vertrouwen, go 38 qsy chnl B. 3EZQ7: 1748 USB Mv Hsing Yu no 11 clg PCG pos south of Kreta unable to contact at 8 MHZ. CNEQ: 1759 USB Mv Abdalla Bnou Yassine clg PCG req pp qsy chnl B. PIBB: 1852 USB Mv Triton pos rpt to PCG fm Blaye to New Ross. PGVW: 1704 USB Mv Prins Maurits clg PCG qsy chnl A. DENR: 1906 USB Fv Dirk Dirk clg PCG qsy chnl B. DIYX:

1527 USB Fv Dr. Maarten Luther clg PCG. PFEA: 1534 USB Fv Johannes Calvijn uk 287 clg PCG req pp. J8GP3: 1541 USB Mv Johanna Maria clg PCG qsy chnl B. PFWS: 1555 USB Fv Martin Michiel le 63 clg PCG, qsy chnl B. PEFI: 1607 USB Mv Galatea clg PCG, req pp. PFWX: 1736 USB Fv Mattheus uk 202 clg PCG pos 55n 5.30e. PGHQ: 1533 USB Fv Noorderlicht uk 197 clg PCG stand by chnl A. PCRP: 1537 USB Fv Anna Margareta 2 tx 66 clg PCG qsy chnl D. PFAP: 1609 USB Fv Jan van Toon tx 36 clg PCG qsy chnl D. PIPL: 1611 USB FV Willempje Hoekstra uk 33 clg PCG. PEVQ: 1619 USB Fv Iede Kornelis uk 47 clg PCG qsy chnl B. PHVW: 1620 USB Mv Sturgeon clg PCG pos rpt 17 mile E of Island of Wight bound Vlissingen. PIQN: 1625 USB FV Wilma uk 88 clg PCG qsy chnl D. PGKO: 1647 USB Fv Noorderhaaks hd 22 clg PCG qsy chnl B. PEYF: 1655 USB Fv Jacob Sr hd 22, clg PCG. PFKW: 1722 USB Ferry Koningin Beatrix clg PCG "geen bijzonderheden" pos Harwich. PIFO: 1724 USB Unid mv clg PCG wich track pos 3 mile North bornhold bound Naantali. PCAR: 1727 USB Fv Aaltje Jan uk 195 clg PCG qsy chnl C. PIFK: 1739 USB FV Vertrouwen hd 23 clg PCG qsy chnl B. PGSB: 1746 USB Fv Pieter Nella uk 42 clg PCG qsy chnl B. PFKP: 1753 USB Fv Kobus jr, uk 34, clg PCG qsy chnl F. PFPX: 1815 USB Fv Louisa uk 16 clg PCG qsy chnl F. PHQT: 1851 USB Fv Sola Fide uk 168 clg PCG qsy chnl F. PEVL: 1902 USB Fv Immanuel uk 18 clg PCG qsy chnl B. PFIJ: 1427 USB Mv Keizersgracht clg PCG qsy chnl B. PIDI: 1553 USB Mv Vallian clg PCG with track pos Le Havre fm Ruan to Sevilla. PDYU: 1603 USB Fv Ernst Eduard zk 57 clg PCG qsy chnl B. PFFX: INT 1627 USB Mv Jumbo clg PCG with pos rpt fm Duinkerken to Rotterdam eta 1000. J8GP3: 1716 USB Mv Johanna Maria clg PCG qsy chnl B. OPXN: 1747 USB Fv De Zwerver clg PCG qsy chnl B. PIDR: 1734 USB Mv Varnebank clg PCG qsy chnl B. 1716-2060. PCTO: 1835 USB Fv Ariadne sch 303 clg PCG qsy chnl F. PDTT: 1846 USB Mv Dutch Mariner clg PCG qsy chnl D. J8DN7: 1846 USB Mv Quo Vadis clg PCG. J8DX6: 1847 USB Mv Mary Ann 1 clg PCG qsy 1674-2099. P3ST2: 1923 USB Mv Merak clg PCG qsy chnl B. PGOX: 1530 USB Unid clg PCG qsy chnl B. PHOT: 1533 USB Mv Smit Loyd ??? clg PCG. PIDI: 1621 USB Mv Valiant clg PCG track pos 120mile N of La Coruna bound Malaga. 3EKU5: 1709 USB Mv River Plate clg PCG qsy chnl B. PDDF: 1730 USB Unid mv clg PCG qsy chnl D. YJYM7: 1746 USB Gv Oil Express clg PCG qsy chnl F. PFKB: 1824 USB Mv Klippergracht clg PCG qsy chnl F. EMRQ: 1826 USB Unid clg PCG qsy chnl F. PGOX: 1120 USB Unid clg PCG qsy chnl B. PFKW: 1130 USB Ferry Koningin Beatrix QTL Hoek van Holland. PFKD: 1625 USB Fv Klazina zk 87 clg PCG qsy chnl B. PIDI: 1642 USB Mv Valiant track to PCG 50 mile SW off Cape Finnistere bound Malaga. MNQG2: 1645 USB Fv Sursum Corda clg PCG. PDNX: 1706 USB Fv Dageraad go 30 clg PCG qsy chnl B. PEEK: 1723 USB Fv Freek en Janny hd 80 clg PCG. MFAE9: INT 1821 USB Fv S.John clg PCG qsy chnl D. PHFS: INT 1857 USB Mv ...borg clg PCG with track 30 mile SE Helsinki eta Rotterdam 21 jan. PCAO: 1419 USB Fv Aaltje Jacoba uk 133 clg PCG. V2AD8: 1621 USB Mv Jan V clg PCG qsy chnl B. PIWI: 1624 USB Fv Zeeardend go 40 clg PCG clg PCG qsy chnl B. pos 53n 2.4e DIQN: 1633 USB Fv Westerems clg PCG qsy chnl F. PGXM: 1655 USB Fv Quo Vadis sch 65 clg PCG testing. UANJ: 1657 USB Unid clg PCG. OPXN: 1702 USB Fv De Zwerver clg PCG. FVPN: 1857 USB Unid clg PCG qsy chnl B. PADH: 1857 USB Hrms Jan Van Brakel clg PCG "mom standby pls". PHSU: 1907 USB Fv Stella Polaris uk 22 clg PCG qsy chnl B. PFUA: 1915 USB Mv Marjolein radio ck w/PCG. PFWT: 1931 USB Fv Martha Lena sl 3 clg PCG. PECE: 1942 USB Mv Flardinga clg PCG track pos Parnu. SVBP: 1446 USB Mv Pindar clg PCG testing radio after repair. DMIB: 1458 USB Unid clg PCG qsy chnl C. MJPE7: 1523 USB Unid mv clg PCG qsy chnl C. PCDK: 1525 USB Fv Adrianus Elisabeth ym 44 clg PCG. PDQD: 1809 USB Fv Dirkje Alja uk 292 clg PCG qsy chnl B. PEXO: 1805 USB Mv Isabel clg PCG qsy chnl D. 1674-2099. J8GP3: 1842 USB Mv johanna Maria clg PCG qsy chnl C. PIHY: 1849 USB Mv Volans clg PCG qsy chnl B. PFKM: 1934 USB Mv Koggegracht pos rpt to PCG 60mile SW Finisterre bound Embden. PDYU: 1803 USB Unid mv clg PCG qsy chnl B. PDWU: 1800 USB Mv Eerland 26 clg PCG pos 55.?n 5.52E. PCRP: 1819 USB Unid clg PCG qsy chnl B. pos 50 mile w IJmuiden. DENR: 1859 USB Fv Dirk Dirk clg PCG pls standby for a mom. PDGB: 1451 USB Unid mv clg PCG. PIWI: 1651 USB Fv Zeearend go 40 clg PCG pls standby no 1. PEKM: 1710 USB Unid clg PCG qsy chnl B. pos 53.1n 3.3e. PEZA: 1715 USB Fv Jacoba Alyda uk 244 clg PCG pos 50 myl w ijmuiden qsy chnl B. PFFK: 1719 USB Fv Jonina

Arm 4 clg PCG. PISE: 1837 USB Unid clg PCG (BvR) [PGOX is Orck UK 136; PHOT is the tug Smit Lloyd Fortune; PDDF is Birgit; EMRQ is Baltiyskiy 59; PHFS is cargo vsl Runborg; UANJ is Toulas; FVPN is trawler Le Ressac; DMIB is Maria; MJPE7 is F/V Good Hope; PDYU is trawler Ernst Eduard, ZK57; PCRP is F/V Anna Margaretha II; PEKM is F/V Grietje; PISE is Wijbrije UK 155 -LOGS]
4071 Sea Princess II 0233 USB wkg wom on ch 403. (HW2)
4098 ELBM9: Tropicale 0129 USB wkg wom on ch 412. 3EWJ9: Imagination 0300 USB wkg wom. (HW2) ELGH5: M/V Crown Princess 0320 USB Princess Cruises 70,000 GWT cruise ship, concluding R/T tfc w/WOM. C6LW2: M/S Regal Empress 0421 USB Royal Caribbean Cruise Lines, 23,000 DWT cruiseship, concluding R/T tfc w/WOM. ELNC5: M/S Ecstasy 0423 USB 70,367 DWT cruiseship, clg/wkg WOM for R/T tfc. (RB)
4110 ELNC5: Ecstasy 0058 USB wkg wom on ch 416. ELKL6: Fantasy 0224 USB wkg woo on ch 416. (HW2)
4113 Nordic Empress 0036 USB wkg wom on ch 417. (HW2) [ELJV7 -LOGS]
4125 Unid 1751 USB Unid Dutch fisherman comms in Dutch heavy accent (BvR) Various 1455 USB Maritime-check ins Pacific coast. (GG) WAP8692: Ballintine Moran 2225 USB wkg WBV, asking if he had been called via cellular telephone. (KW2)
4131 ELLY4: Ocean Breeze 0255 USB wkg wom ch 423. (HW2) ELBM9: M/S Tropicale 0527 USB Carnival Cruises 36,674 DWT cruise ship, wkg WOM for R/T tfc. C6LG5: M/S Dreamward 2327 USB Norwegian Cruise Lines 41,000 GWT cruiseship, wkg WOM for R/T tfc. (RB)
4149 Various 1410 USB Maritime-St John's Bay mentioned. (GG)
4190 SVUZ: M/V Golden Empire 0540 CW wkg unid station w/msg tfc. (RB)
4274 PORTISHEAD RADIO (GKB2) 2130 CW North Atlantic wx. (DW)
4387 EHY: Madrid Radio, E 0605 USB w/tfc list, ann in EE/SS next list to be 1003 UTC. (RB)
6215 Unid vsl 0710 USB clg Nuku'alofa radio TON. Unid vsl 0705 USB clg Nuku'alofa radio Tonga. (AW)
6224 ZLM: Taupo radio 0705 USB w/wx. (AW) ?- Navigator 1938 USB wkg WPE, posn 27,65N, 78, 48W. (KW2) [probably the "tug" Navigator, WBO3345. hrd frequently wkg WPE -LOGS]
6299.5 SWHT: M/V Orion 2111 CW clg SVE, Athens rdo. (RB)
6303 UIIC: TR Bereg Mechty 1309 CW wkg unid coastal station w/tlx tfc. (RB)
6507 Cadiz Spain 0410 USB (I think) w/tfc. (CM) [lots of Mexican, and LPL in Argentina, but none in Spain here that we know of -LOGS]
7610 Unid 1645 USB Spanish Fishermen (ANEE)
7613 Unid 1645 LSB Spanish Fishermen (ANEE)
7745.4 Mexican Fishing Net 0150-0210+ USB SS comms between several stn, incl one in Salina Cruz & one in Mazatlan. One guy was new to the net, so they nicely gave their other frequencies - 8255 & 8284.4 kHz. Said on one of those every morning around 8 a.m. (probably 1300 UTC). Fishing tfc here 1334. (DHM)
8161 Unid: Spanish Fishermen? 0900 USB (ANEE)
8198 J8FY3: M/T African Express 0343 USB wkg AT&T Coastal Station WOM for R/T tfc to Hong Kong. (RB)
8234 Unid: 0130 LSB Salty talkin' fishers. (GG)
8240 HO9893: "Island King" 2118 USB clg NMN. (DHM) ZSAL: Unid 0653 USB wkg Portishead Radio (on 8764) for R/T tfc. 3EMF9: Republica de Columbia 0655 USB clg Panama Radio, no joy, since HPP not assigned this frequency. N/A: Ancora Doro? 2134 USB clg Portishead Radio for R/T tfc. (RB)
8284.4 Unid maritime 1128 USB plus a few at other .X channels, Spanish & EE language stns, no IDs & some cursing. (MS2)
8285 NGEL: Navy Ship "Pacific Escort" 1850 USB wkg WOM on 8809, R/T tfc to unk navy ops center, posn 34N, 67W(?)- heavy wx 20 degree rolls, 60 knot winds - at anchor. At 1927, clg WOM, posn 34N76W. (KW2)
8297 KZU: Gulf Fleet Marine, 0714 USB "Harvey", La, US clg tug El Falcon Grande, WSF2730, no joy. (RB)
8366 9HJT3: Mount Ymitos 2205 CW clg SVC. P3PV2: M/V Amer Shanti 2220 CW clg GKB3. (RB)
8366.5 YJYK: Pacific Trident 2208 CW clg UUI. (RB)
8391.5 UJQM: Yasenskiy 0645 CW clg UUI. (RB)
8502 Unid: 0028 CW tfc list from PLANANTINC (what is that?) (LB)
8573 CLA: Havana Radio, Cuba 2112 CW ID mkr (DHM).

8617.3 KPH: San Francisco R, Ca, US 0035 CW marker tape (LB)
8680 WSC: US Tuckerton R 1235 CW cq (EW)
8681.3 EAD44/EAD3: Madrid R, E 0041 CW w/marker tape (LB)
8687.6 UGC: St. Petersburg, Rus 1227 CW cq (EW)
8691 XST: Qingdao, CH 1226 CW cq (EW)
8700.4 HKB: Baranquilla R, CLM 2120 CW ID mkr (DHM).
8740 Unid: 2035 USB YL w/ann, followed by a "door bell like ding-dong" chime, voice marker for coastal station, I once had the ID for this one, Athens Radio? (RB)
8749 WOO: (NJ) 1607 USB synthesized voice, req comments on quality of services. (KW2)
9085 Unid 0815 USB w/spanish, Canaries Islands, load of octopus (ANEE)
12245 Song of America 1913 USB wkg wom on ch 1206. (HW2) [LENA3 -LOGS]
12335 Ship California(?) 1942 USB clg Rome Radio, no joy. (KW2) F/V Gladiator 1850 USB wkg WFA713 re: posn rpt, I haven't had any luck finding this c/s in the ITU database.Ideas? [cud be "tug" Gladiator WBN5982 wkg WPE? -LOGS] WBC_715: M/V Sea Haven 2050 USB wkg "Mobil" re: docking & car rental. (CM)
12563 UWEI: RTMA Rubinovyy 0725 CW w/tfc to Vladivostok. (RB)
12663 CBV: Valparaiso R, CHL 2126 CW ID mkr (DHM).
12698 ZSC: Cape Town R, RSA 2127 CW ID mkr (DHM).
12724 ZSC: Cape Town R, RSA 2128 CW ID mkr (DHM).
12738 PPR: Rio de Janeiro R, B 2129-2133 w/ time pips, long pause, then CW ID. Listed w/ time signals at this time in CFL. (DHM)
12801 TAH: Istanbul R. TUR 1401 CW "de tah". (HS)
12820 Unid: ? 1357 CW "wladiswostok" mentioned 2 times. (HS) [untransliterated Russian for Vladivostok, maybe UFL? -LOGS]
12887.5 EAD44: Madrid R, E 1215 CW "de ead qsx". (HS)
12912.6 FFL6: Saint Lys R, F 1212 CW "cq cq". (HS)
12936.5 HLF: Seoul R, Korea 0135 CW (EW)
12947 UFB: Odessa R. UKR 1755 RTTY 50/170 Msg Rus (RR2)
13015.5 IAR: Rome R, I 1340 CW "vvv de iar". (HS)
13029 SVB5: Athens R, GRC 1347 CW "cq qsx". (HS)
13176 Santa Maria Radio (?) 1808 USB traffic lists. (KW2) [none by that name, probably 'Madrid' Radio, Spain, a real power house here -LOGS]
14300 Maritime Mobile Net 2000 USB (amateur) talking re tug in trouble at about 28 N 80W. They say the CG is mounting a SAR. Asking area boats assist. (RR)
16513 DZD: Metro Manila PHL 0920 USB giving pp to unid vsl. (AW)
16522 Unid vsl 0810 USB clg Manila radio. (AW)
16528 "Europe" (DLAL) USB 1605 wkg two container ships - "Tokio Express" & "Humboldt Express" - from the same shipping line, Hapag-Lloyd of Bremen. Posn reports & company nx exchanged, but stormy conditions here made the band very noisy & severely distorted the audio from time to time. California & the west coast of Mexico were mentioned. ELSX4 0005 USB The ship's radio officer announced on the air yesterday that his callsign is no longer DGNZ, but rather ELSX4. If the usual procedure is followed, the captain will assume the work previously performed by the REO. "Duesseldorf Express" (DAAQ) 1630 USB Four ships of Germany's Hapag-Lloyd line had a gab-fest this morning. Duesseldorf Express put out a general company call (DAAQ) & swapped nx w/Europa, Tokio Express & Humboldt Express. "Nuernberg Express" was called several times but failed to respond. No posn reports were given, but Duesseldorf complained repeatedly about being fog-bound. There was much talk of reflagging, but as no callsigns were used today, it was impossible to tell of these ships had given up their normal"D"-style German calls. They did say New York Express was due to sail from Hamburg in early March. Three Hamburg-Sued container ships 0004 USB exchanged noon posn reports & greetings from their masters: Columbus Queensland, DICQ, 20S/126W. Columbus New Zealand, DGNZ, 23N/93W. Columbus California (ex-Monte Cervantes), DHCM, 14N/127W, bound for Auckland. (RA)
16567 Bulacan radio PHL 0925 USB wkg unid vsl. (AW)
16572 Unid Indonesian craft 0928 USB clg Bali. Unid Indonesian stn 0928 USB probably Denpasar in Bali wkg pp (AW)
16677 DZJ: Microwave Communication, Bulacan, PHL 1950 CW w/nx of PHL in EE (RM) [also reported as Filipino crewed ships relaying nx -LOGS]
16932 7TF10: Boufarik R, ALG 1314 CW "cq cq". (HS)

17115 UGC: Saint Petersburg R, RUS 1310 CW "cq qsx". (HS)
17135 UTQ: Keiv R, UKR 1306 CW "cq cq". (HS)
17184.8 KFS: SAN FRANCISCO 0433 CW CQ de kfs w/poor signal (EW)
17188 SVD6: Athens R, GRC 1157 CW "de svd 6". (HS)
17198 PCH60: Scheveningen R, NLD 1150 CW "de pch,de pch". (HS)
17198.3 HZG: Dammam Radio, SAUDI ARABIA 0425 CW CQ de HZG (EW)
17206 IAR: Rome R, I 1148 CW "vvv de iar". (HS)
17220.5 JOU: Nagasaki Radio, J 0423 CW CQ de JOR (EW)
17238.9 XSV: Tianjin Radio, CHINA 0419 CW CQ de XSV (EW)
17239.7 PKX: Jakarta Radio 0417 CW CQ de PKX (EW)
17290 PPJ: Juncao radio BR 0940 USB wkg unid vsl pp. (AW)
19770 PPJ: Juncao radio BR 0650 USB wkg unid vsl pp. (AW)
22389 9VG: Singapore R, SNG 0653 CW (EW)
22399 A9M: Hamala R, BHR 0659 CW (EW)
22452 XSQ: Guangzhou R, China 0704 CW (EW)
22459 XSX: Chi-Lung Radio, Taiwan 0416 CW CQ de XSX (EW)
22474 VIP: Perth R, Australia 0707 CW (EW)
22479 9VG: Singapore R, SNG 0709 CW (EW)
22482 HLG: Seoul R, Korea 0706 CW (EW)
22542.5 JJC: Kyodo News, Japan 0412 FAX 60/288 japanese text (EW)
22575.5 PKX: Jakarta R, Indonesia 0707 CW (EW)
22592.5 A9M: Hamala R, BHR 0710 CW (EW)
22611.5 HLF: Seoul R, Korea 0714 CW (EW)
22660 JOR: Nagasaki R, Japan 0115 CW (EW)

=MILITARY=

2670 USCG Mobile, AL 1227 USB w/end of long MIB (DHM). NMG: USCG CommSta New Orleans, La, US 0056 USB wkg WBVV, Exxon Charleston, req if they can take the vsl they are assisting in tow until a USCG cutter can meet up w/them & relieve them of the tow. NMF44: USCG Southwest Harbor Group, Me, US 0420 USB wkg F/V Enterprise re MEDICO, crewman has injured hand. NMB: USCG Group Charleston, SC, US 0421 USB w/ann of overdue 24 foot S/V w/1 POB, then into MIB. NNAS: USCGC Escanaba 0528 USB WMEC-907), wkg F/V Enterprise re their MEDICO, posn 4300N/06804W, gives ETA. NKEC: USCGC Monomoy 2312 USB (WPB-1326) wkg USCG Group Moriches (NY), NMY42. (RB) USCG Charleston Group 0341 USB w/'securete' broadcast "BRN20 will be unavailable for use". (RR)
2716 USN Norfolk Port Control 1232 USB tfc w/unid party (DHM). [wow, a long time since I've seen any USN port's logged here -RD]
3113 TEAMWORK 1325 USB clg NIGHTWATCH 01. Active again at 1347z, then moving to W101. (JH)
3123 NMG: USCG CommSta New Orleans, La, US 0337 USB wkg RESCUE 2122 reporting on-scene at vsl re Medico, NMG relays from ATC Mobile that injured person can not move limbs below waist. At 0350, 2122 reports the HH-60 is on-scene. (RB)
3347 MARS 0251 LSB MARS Pacific Area Net. Army MARS 0325 LSB Western Area Net-nightly busy at 1900 PST. Oregon MARS Emergency Net LSB at night plus others (GG)
3369 NIGHTWATCH 0523 USB wkg IMMORTAL. (GG) NIGHTWATCH net 24+ hours USB making active use of the lower Sierra freqs, including active use of S303. When they've occasionally moved to S303, they have not been heard here on 3295 (a freq associated in the hobby press with S303 since the very late 80's.) to move to S303. At 0658z, a quick check of 3295 came up negative, so a quick move up the band found DEERHORN wkg NIGHTWATCH 01 on 3369, & id'ing 3369 as S303. (JH)
3390 NNN0GGT: USN MARS 0103 USB Training net. RATT training tests. (MF)
3939 Netishead & 6CE USB Track coordination Net. (SM)
4017 Oregon MARS Emergency Net LSB during flood Day freq (GG)
4134 USCGC Woodrush 1259 tfc wkg CommSta Honolulu. (DHM)
4154.5 DRAV:FGS Karlsruhe (F-212) 0429 USB German Navy type-12 frigate, wkg DHJ59, Wilhelmshaven Naval w/RTTY coordination tfc. IAOC: Danaide (F-553) 0535 USB Italian Navy Minerva-class Corvette, wkg unid, poss ICT, Italian Navy Tarento, w/RTTY coordination tfc. IBH-?:Unid 0631 USB unk Italian Navy vsl wkg unid sta, poss ICT, w/RTTY coordination tfc. DRKM: FGS Rhon (A-1443) 0633 USB German Navy replenishment-tanker wkg DHJ59 w/ZBO 1 priority msg to send. DRAS: FGS Rheinland-Pfalz 0637 USB (F-209) German Navy frigate wkg DHJ59 w/RTTY coordination tfc. (RB)

4275 TBA5: Turkish Navy, Ankara, TUR 1822 CW w/tba 5/7 tba 5/7. (BvR)
4372 Giant Killer, (FACSFAC - Virginia Beach, Virginia) 1330 USB wkg various USN tactical call signs. (SF)
4404 COASTAL CTL 1025 USB GO (Royal Navy). (AD)
4419 Royal Navy: UKMACCS Coastal Ctl 2310 USB two-tone availability signal. (RB)
4421 JOLLY 11: USAF helo on SAR duty 1958 USB wkg "Command Post" after QSY from 6714, adv is at 1000 feet, first time heard here on this freq. (RB)
4466 Keystone 43, 87, & 504 (Oil City), PA 2206 USB Wkg Civil Air Patrol, coordinating radio coverage for next day. (KW2)
4484 NEATISHEAD ADRU 1030 USB 2ZM re posn of same & 7KO. (AD)
4517 Unid Military 1037 USB Passing target tracks. (AD)
4519 GOLF TANGO 1043 USB Unid, w/data tx. (AD)
4718 NEATISHEAD 1034 USB w/H7O, passing target tracks, Neatishead SCOPEY wants to maintain 'listening watch'. Neatishead says open till 2359. Exercise next week involving both parties. (AD)
4721 SAM 201 2226 USB wkg Andrews, come-up on Echo-Fox. (GT)
4724 0641 USB very long EAM, 132 characters (EG) Thule GHFS 2304 USB 2 x EAMs - ERSLKZ + 4VLVNIL43U2JUFKEWN7K & ERTQMC + I4Y3FOX443NCIIYN3G5A (2327z) same 2 EAM's as above, but much weaker, & I was unable to make-out the name of the transmitting stn. (GT) ROADSIDE 0716 USB clg MAINSAIL after moving here from 6739, no response. ROADSIDE (or at least the callsign) found active in NIGHTWATCH nets past 1900z. (JH)
4739 ONE YANKEE DELTA 1902 USB clg SIERRA YANKEE VICTOR, no joy, no luck w/BLUESTAR either. (MF2)
4742 SCORCHER 21 1137 USB wkg ARCHITECT, req latest wx for 'BELFAST ALDERGROVE', (not sure I hrd c/s correctly). ASCOT 5476 0936 USB wkg ARCHITECT, dep't Lyneham 0900, ETA Bari @1255, SELCALL AJ-EL. 9JS 0940 USB wkg ARCHITECT, req wx for 'LICZ + LICJ'. ASCOT 4931 1104 USB wkg ARCHITECT, dep't Lyneham 1025, ETA 'CYYR'@ 1845, standard relay 'N', SELCALL AJ-CF. ASCOT 4934 0954 wkg ARCHITECT, radio ck, Selcall ck 'AJ-DH'. 1CB 0958 USB wkg ARCHITECT, radio ck. ASCOT 5506 1210 USB wkg ARCHITECT, pre-Flight radio ck, Selcall AJ-BF. Dep't Lyneham 1225 eta EDDV 1410. ASCOT 4502 1211 USB wkg ARCHITECT, dep't Lyneham 1145 eta EDDV 1530, Selcall AJ-CL. 6LD 1239 USB wkg ARCHITECT, req latest wx for Stornaway. IFN94 1306 USB wkg ARCHITECT, dep't EGJJ (Jersey) 1255 eta EGVO 1355. (AD) NIGHTWATCH 0533 USB wkg IMMORTAL, id'd freq as X209, authenticates & enters the net. (GG) Architect 0620 USB (female opr) wkg CANFORCE 415. NIGHTWATCH 01 net 1445 USB active w/NIGHTWATCH 01 (off until 1545z), DEERHORN, & BEATBACK. There was an attempted radio check on 3113 (id'd as S301) w/BEATBACK at 1434z. NIGHTWATCH 01 1340 USB wkg WAR46 for a brief signal check. Typical minutestamp for these things. ASSOCIATE 1131 USB w/EF... EAM string, then called by NIGHTWATCH 01 who confirms the EAM and asks if ASSOCIATE also has H3QTFC...traffic. Later, ANDREWS up on freq wkg a SAM flight, & eventually NIGHTWATCH 01 moves his small net to W101 to get away from ANDREWS. (JH) Ascot 5946 1245 USB Lyneham to Tromso. Ascot 4983 1425 USB Oslo-Lyneham/ Selcal AJ-BD. Ascot 5401 1120 USB Dijon-Lyneham. Selcal AK-DJ. Nato 10 0930 USB Selcal EM-FL /Vertical Italy. (JP2) HAVEN: RAF Ascension Island 0549 USB wkg ASCOT 3200 w/wx. (RB)
4785 5EL 1011 USB w/H7O, also 5JU + 2JP (see 4785). (AD) 6FC: British Army USB w/Z4L /9VH /J1E w/transport net, in the UK. (JJ2)
4833 Royal Navy? 1354 USB GX? wkg GT. GE? told GT that he was using wrong tone. Then 'Commence 1 lima', 'commence 1 kilo', 'commence 3 bravo'. (AD)
4950.3 WHISKEY USB w/1-0, 0-5 and OPS. IFOR-NL-troops Bosnia. (JJ2)
4982 SAM 201: USAF C-20B tail 86-0201 2045 USB on the ground at Richmond, wkg Andrews on "197" w/radio ck's, att to get disposition of flight. (RB)
4989 Polish Army 0855 LSB cypher traffic w/unid, tfc w/various outposts at 0905. (JJ2)
5000 "WODEK" 1445 USB in Egypt w/"ANOSKJA" (both phonetical). (JJ2)
5136 B44 USB No joy. These are the IFOR-UK troops in Bosnia. (JJ2)
5211 NIGHTWATCH 1700 USB on FEMA's F-11 clg WGY912 & others. (JM)
5320 USCGC Northland 2206 tfc w/Galveston. USCG Fort Macon 1240 USB Tfc w/India One Quebec. (DHM) NMN72: USCG Station Oak Island 0601 USB

wkg USCGC Jefferson Island (WPB-1345), NORW, re new HFDL (High Frequency Data Link) frequency. NIQZ: USCGC Point Baker 0704 USB (WPB-82342) clg Group Galveston, no joy. NMG: USCG CommSta New Orleans, La, US 0706 USB wkg distressed vsl Amy Star adv either USCGC Cushing or USCGC Point Winslow out of Grand Isle, La, will be enrt to assist them, depending on which can recall it's crew first. NOY8: USCG Group Corpus Christi, Tx, US 2256 USB wkg R9D to assume their radio guard. (RB) USCG 0430 USB I believe Corpus Christi, one station strong other weak, w/switch to 8719 if no joy return to 5320. Lot of USCG traffic 0222 USB RESCUE 2123 is in comms w/Corpus Christi. (RR) [USCG Group common -LOGS]

5342 FDY: French Air Force, ORLEANS, F 1435 CW Marker "vvv de FDY ar".(DW)

5343 CISN VAYVAGH (RIT)? 1439 CW Very slow (17wpm) machine cw w/accentuated letters. NAWIP (nav warning) karty (chart?) Atlantioeskij Okean (Atlantic Ocean). (DW)

5475 X4U: Unid British Military 0615 USB wkg unid units w/what sounded like tracking comms. (RB) H1S/X4U 0431 USB wkg many tri-graph station all w/British accents w/radar tracking operations...very busy net. 5CI reports that he wants 'Flight Information Broadcast Control' posn reports given as 270 at 50, 280 at 45, etc. Some stations also reported altitudes & when links would be airborne. (TB)

5630 Mexican Army 2350-0000+ USB w/radiograma & mentions of various towns in Veracruz state. (DHM)

5680 GAFFER 93 1400 USB wkg Kinloss Rescue. ALPINE 22, SWALLOW 91, WESTLAND 04 1400 USB Westland 04 were talking to Plymouth & mentioned speed training. (CH) SAR Comms 1150 USB search for cargo vessel "HOLSTENBECK" carrying ferrous sulphate from the Humber to Limfjorden in Denmark. Rescue 6116 was first in the air but now Rescue 11 from Kinloss & Rescue 128 are on their way. (PT) Edinburgh Rescue 1210 USB adv Rescue 11 & 128 that "PBC06 & PBC07 are suppressed until further notice" (whatever that means). They have now been joined by Rescue 6101. At 1430 The search for the "Holstenbek" continues w/no joy so far. A second Nimrod, Rescue 12, has been scrambled & the search has been joined by a Danish Gulfstream, Rescue 249. (PT)

5693 USCG Detroit 1406 USB tfc w/Coast Guard 6565 (DHM)

5696 CG RESCUE 6037 USB 1020 wkg CG RESCUE 1720 on ?E3. CG RESCUE 1720 USB 1025 wkg CAMSLANT. CG RESCUE 1720 USB 1026 clg CAMSLANT. CAMSLANT USB 2227 wkg CG 1720. CG CAMSLANT Chesapeake 2228 wkg CG RESCUE 1720. CG RESCUE 6033 2245 USB 33 requesting fuel. COMMSTA New Orleans 2250 USB wkg CG Resue 6033. CG RESCUE 1720 clg San Juan. CG RESCUE 1720 2317 USB req wx. (BG) NMN: USA 0530 USB Camslant Chesapeake w/Rescue 1503 searched area no sign on 121.5 243 or eprib (BvR) RESCUE 1702 1000 USB asked by CAMSLANT if any search boats assisting in area. USCG SAN JUAN wkg to get battery,(H-60). RESCUE 6037 on same SAR. RESCUE 1721 2028 USB called by COAST GUARD SAN JUAN. Said battery avail 1350z. Rescue 6569 reports Flt Ops Normal. RESCUE 1720 1032 USB told come up to VHF CH. 16 for Air Station BR...? BY SAN JUAN. (BWS) [AirSta Borinquen, NMR26, Aguadilla, PR -LOGS] CG San Juan 2023 USB wkg Cutter Spencer having difficult time locating body bags for their use. (C1) NIGHTWATCH 0400 USB wkg CAMSLANT, they would be monitoring. (CM) USCG New Orleans 2343 USB w/radio check for Air Force 8304. Never heard the USAF here before. (DHM) [usually REACH flts -LOGS] San Juan to Rescue 6037, mentioned Port of Plata, H60, Rescue 1722, Rescue 6033 & other stuff @0828 (EG) X9I 1605 USB wkg COMMSTA NEW ORLEANS re att, unsuccessful, comms on 3E7; and comms on 3E4 (digital voice heard on 5106) (JH) CG Helo 6001 1849 USB clg CAMSLANT, negative contact. CG Helo 6001 1850 USB wkg CommSta Boston, req guard, enrt Otis AS (MA) to R.I. Oil Spill area, 4 POB's. CG Helo 6001 1945 USB wkg CommSta Boston, on deck for about 10 minutes, 3 POB's. CG 6017 2012 USB wkg CommSta Boston, req guard enrt Hanscom AFB (MA) to Pt Judith R.I., 6 POB's. (KW2) Coast Guard San Juan USB wkg 6037, re Boeing 757 w/approx 189 folks crashing in Caribbean. Lot of call-signs. (PP) RESCUE 1503: USCG HC-130 0509 USB wkg NMN, CAMSLANT Chesapeake, re is on-scene & has strong 121.5 EPIRB signal, however ADS137 Search Radar shows nothing yet. NMR1: GANTSEC, USCG Greater Antilles Section, San Juan, PR, "CG San Juan" 0725 USB wkg Rescue 1713 (HC-130) re distressed vsl to att comms on VHF 16 w/Dominican Navy, passes several station names on. 1713 ltr adv the

vsl had tried those in SS/EE no joy. JOLLY 11: USAF helo on SAR duty 1947 USB wkg "Command Post", adv at 150 feet approaching shore of Ct, QSY 6714. Note this was not a pp via USCG CommSta. (RB) CamsPac 0401 USB (is this Point Reyes?) radio ck w/1701. (RR) [yes, NMC, CAMSPAC Point Reyes, Ca -LOGS]

5700 TWILIGHT 1608 USB clg & raising NIGHTWATCH 01, then entering the net. At 1611z, TWILIGHT wkg NIGHTFALL. Then NW01 adv he is on the ground & will be off HF for 1.5 hours for maintenance. At 1705z, TWILIGHT & NIGHTFALL into data xmsns, then moving to unk CHARLIE ECHO at 1718z. At 1840z, NIGHTWATCH 01 clg TWILIGHT & NIGHTFALL. At 1841z NIGHTWATCH 01 clg & wkg ROLLPACK (heard earlier at 0400z+), & adv ROLLPACK that BD6BJM is current traffic. OVERSLEEP 0344 USB clg NIGHTWATCH. WAR46 0102 USB clg & wkg NIGHTWATCH 01 for a radio check. Then WAR46 seemed to be back up on 5700 clg NIGHTWATCH 01 on a 2 hour cycle. Otherwise, freq quiet. REMEDIAL 0645 USB clg NIGHTWATCH 01. No response, but at 0647z, NIGHTWATCH 01 up on freq clg WAR46. DAREDEVIL 0523 USB clg NIGHTWATCH 01. MACARONI 1510 USB clg NIGHTWATCH 01, w/nothing heard, & gone to 6730. PINETREE 2040 USB clg NIGHTWATCH 01, no response. NIGHTWATCH 01 1745 USB (on the ground & monitor only since around 1630 until 1830z or so); TWILIGHT (in the net at 1608z); & NIGHTFALL. Both USN assets have been active w/data exchange training. At 1718z, both stations moved to CHARLIE ECHO (unk) for further data work. (JH)

5712 Unid U.S. Military USB some form of U.S. net in relation w/air monitoring over Bosnia. Ground stations CRICKET, JEDI, DISNEY, COWBOY & LONGBOW c/s. I heard Cricket talking abt wkg w/a/c around Mostar. Jedi 1/2 were also heard over the UK on UHF last week by me. (CH)

5800 NIGHTWATCH 01 1349 USB wkg TEAMWORK, & moving net to W104. (JH)

6227 ADMU: USAV Hobkirk (LCU-2023) 0522 USB clg AADT no joy on Ch.3. (RB)

6501 NMN Coast Guard Comm Master Station Atlantic 1609 USB w/maritime Wx forecasts & warnings. //8764. (KW2)

6509 Royal Navy? 1326 USB presumed to be Royal Navy, GX? wkg GT. (AD)

6683 Air Force 2 2303 USB wkg Andrews w/pp ANDREWS METRO, then trying to set up a pp with CROWN but AF2 reporting ANDREWS as very weak. (AM) Andrews 2056 USB wkg SAM 26000 on 731u. Andrews 2111 USB wkg SAM 206 on 731u. AF2 2316 USB wkg Andrews on 731u. AF2 departed (where?) at 2300, eta KADW at 0100z. (GT) SAM 376 1625 USB going to 877 Upper (?)-not 4721. Trout 99 1730 USB A/R Bass 10,going 868u (9218). (JP2) SAM 204: USAF C-20B tail 86-020 1727 USB 4, Special Air Mission a/c, wkg Andrews for rdo ck's. (RB)

6691 CABLECAR: 1721 USB wkg COLD DUCK w/data coordination, a/c to a/c chat, on "Charlie Alpha". (RB)

6694 CFH: Halifax Military, NS, 1956 USB CAN, wkg NQ67 w/pp to SIDECAR, adv is XAE, req he QSY to Golf 7. XX6P: Unid a/c 2002 USB wkg Halifax Military w/pp to unid meteo. (RB)

6705 Andrews 0300 USB clg Rudy 56, on all freqs, no joy. (CM)

6712 REACH 407 1513 USB wkg CROUGHTON w/pp 'HILDA EAST' then 'RAMSTEIN METRO' for wx ck's at Rhine Main & Mildenhall. (AD) CTM 3114 1124 USB Circus Vert eta Sarajevo 1145, call again 1230 (BH) ANDREWS 0717 USB w/h+17 EAM transmission. ANDREWS 0617 USB w/26-character EAM at their common h+17 xmsn time. ANDREWS did not state or repeat the preamble before he went into his full string broadcast. ANDREWS 0617 USB w/'normal' post 0600 h+17 EAM transmission, w/the string taken from the GHFS's 0527z EAM rotation. (JH) Fremch Air Force: Cotam 2110 1430 USB to Orleans. Cotam 3200 0954 USB Istres-Split. Cotam 1063 0956 USB Toulouse-Bangui/A310 selcal ?K-MS. IFD0037 1600 USB to Istres (French a/c). Cotam 3500 1230 USB to Istres. French Navy 53A7 1300 USB Nord 262 AEN (56S)Nimes-Malaga. Cotam 1063 1310 USB Airbus A310 from Brest to Hyeres. Cotam 1938 1315 USB to Toulouse/ selcal AM-ES. Cotam 3500 1320 USB Solenzara-Istres-Solenzara. Cotam 2340 1330 USB Dublin-Exeter. Cotam 0204/F-RAFJ 1407 USB Villacoublay-N'Djamena/DA 50 /Airevac. Cotam 1854 1415 USB Bastia-Toulouse. Cotam 1919 1510 USB Agadir-Dakar. Cotam 2475 1530 USB Bosnia-Solenzara. Cotam 2330 0920 USB Oslo- EDDH. Cotam 32 0930 USB Villacoublay-Lisbonne /Mission UA/23. Cotam 3200 0950 USB Istres-Sarajevo. Cotam 3401 1220 USB Colmar-Orleans. Cotam 2482 1515 USB Orleans. Cotam 2467 1611 USB Dahran. Cotam 3158 1600 USB Colmar-Solenzara. French Navy 5341 1730

USB Nimes. Cotam 2972 1600 USB Sigonella. Cotam 3086 1110 USB Sarajevo-Bordeaux. Cotam 3035 1339 USB Ajaccio-Evreux. Cotam 3161 1400 USB Ajaccio-Evreux. (JP2) Croughton GHFS:England 0729 USB wkg REACH 45IG w/pp EXTENDER OP's at 'LIMK', Genova, Italy, ID's as a KC-10 tail# 830082. (RB)+(JP)

6715 LQ820 0050 USB wkg Vancouver Military. (JH) AME 3132 1700 USB Rota, Spanish AF frequency. (JP2)

6727 MAGIC 67 0949 USB w/LBJ, in transit to N. Norway, data tx w/LBJ. (AD)

6728 Trenton Military? 0630 strong, very broken, activity which sounded sorta like TRENTON MILITARY (but very broken). (JH)

6730 RIDERLESS 2007 USB clg Nightwatch(not heard), Nightwatch asked them to move to S-309, heard mention of cockpit in the background & the sound of this station makes me believe RIDERLESS is an A/C (EG) DOORBELL 0032 USB wkg NIGHTWATCH on "X903" w/voice, at 0035 w/data. (GG) Andrews 0633 USB wkg SPAR 67 w/comms. Andrews 0652 USB MYSTIC STAR activity & a very strong station id'ing as SIERRA w/test counts; apparent ANDVT bcsts; & periodic calls to BEAR 03. [BEAR ACE 03 was an E-2C wkg recent B757 crash SAR comms on 5696 w/USCG, same? -LOGS] IRONCLAW 1500 USB clg NIGHTWATCH 01. MACARONI 1511 USB clg NIGHTWATCH 01 a number of times; nothing heard so he enters the net in-the-blind. Immediately called by TOPNOTCH at 1513. Both stations into brief ANDVT checks. At 1515, TOPNOTCH calls NIGHTWATCH 01 for MACARONI, w/no response, but advises that NIGHTWATCH is on freq as he had been active just 5 minutes earlier. SAM 203 0328 USB clg ANDREWS. At destination at 0345z. Both ANDY opr & female SAM 203 opr had blizzard problems (namely, how to get home). ROADSIDE 1948 USB clg NIGHTWATCH 01. FISHHAWK 0555 USB clg NIGHTWATCH 01. At 0600z, WAR46 up on freq calling & wkg NIGHTWATCH 01. At 0604z, FISHHAWK w/20-character EAM; at 0607z, FISHHAWK w/26-character EAM, coincident w/ GHFS. ANDREWS 0809 USB w/brief short-count test transmissions over a number of minutes. BLINDFOLD 1444 USB wkg NIGHTWATCH 01. NW01 said he was up on freq because of a call from ANDREWS (who was still lurking the freq from at least 0809z.) At 1459z, BLINDFOLD exits the net w/NIGHTWATCH 01 (now a female opr.) At 1504z, ANDREWS up on freq clg SAM 203. (JH) Casey 01 1641 USB going to 731 Upper (6683). (JP2) Andrews 2021 USB w/pp for SAM 201 to Crown (SAM 201 Primary F267-6730 Secondary F354?). ANDREWS 2015 USB w/pp for SAM 200 to Gander Twr for runway conditions. (MF2) Air Force 1 2219 w/pp Andy with pp's to CROWN & SAM ops (MJ) Air Force 1 1949 USB w/Andrews re landing time. (PM2)

6731 Freebird 36 VIP flt from 86th Wing, Ramstein AB 1925 USB wkg Andrews, pp to US Embassy in Zagreb, Ambassador Holbrook (on a/c) for Amb Galbraith. Freebird 36 1944 USB wkg Andrews on 432u, at 2000z while trying to make a pp, Andrews broke in w/priority traffic from State Ops for Amb Holbrook. QSY 420u. (GT)

6739 IFB 14 1730 USB wkg ARCHITECT w/pp to LYNEHAM OPS. (AD) Unid 0641 USB w/very long EAM, 132 characters (EG) PITCHOUT 0424 USB wkg HICKAM getting wkg freqs for NIGHTWATCH net. RELIABLE 0021 USB (probable ground station) clg MAINSAIL, and into test count. NIGHTWATCH 01 0705 USB clg & wkg MACDILL. SAM 200 0344 USB wkg ALBROOK w/pp's to SAM COMMAND & another DSN 858 number. MCCLELLAN 0527 USB as lead station w/20/20/26 character EAM set within a 10 min period. NOTEBOOK 0950 USB wkg MACDILL for radio check, & gone. MCCLELLAN 1535 USB as lead GHFS station, w/20/20/26 character set, this time over a 15 minute period. There was another EAM transmission at around 1516z+/-. This turns out to be a fairly common Saturday time period for these things. (JH) Rafair 23J3 1740 USB also clg on 11205/9031. Spar 85 1615 USB from Araxos to Ramstein. Mission 2404. IFO 35 1930 USB 44-12E/C-17. IFO 18 1244 USB N90535 ETAF-Tuzla/Mission AJUJ2233. Rafair 23J3 1740 USB also clg 11205/9031. (JP2) WISE 87: 0605 USB wkg MacDill GHFS w/pp Hulburt CP re crew bus, munitions team for flare removal, needed upon arrival. (RB)

6745 IFB98: CanForce a/c 0429 USB on Bosnia mission, wkg Trenton Military re wx Shannon. CHR: Trenton Military, Ont 0553 USB wkg IFB37 (a/c on Bosnia mission) w/wx actuals for Ottawa & Trenton, adv 4703 is secondary. CanForce 851: 2349 USB wkg Trenton Military re Ottawa wx. (RB) Trenton Military 2230 USB wkg CanForce 88, seems to copy ok here, pp to 8 wing ops gave status report 2350 eta Trenton. (RR)

6753 MAGIC 52 1108 USB wkg INY clg 'MAGIC COMMAND', asked 'INY' to relay. (AD)
6761 Unid USB 1931 very strong carrier, then into data transmission. Station unk. (JH) SAM 518 1718 USB to Aviano /DV2 +10. (JP2) SAM 201: USAF C-20B tail 86-0201 1650 USB wkg Andrews w/rdo ck's. TROUT 99: 1737 USB wkg Andrews w/pp AFOC re landing at this time. SAM 3000(?): 1815 USB wkg Andrews w/rdo ck's. (RB)
6770 WILD EAGLE 0319 USB clg Delta One Delta for radio ck, no joy. (RR)
6779 DRKM: FGS Rhon (A-1443) 0645 USB German Navy replenishment-tanker wkg DHJ59 w/RTTY coordination. (RB)
6817 Andrews 2140 USB w/pp for SAM 200 to State Ops. (MF2)
6830 Andrews 2025 USB w/pp for SAM 201 to unid. (MF2)
6986 Andrews 2221 USB wkg SAM 202, qsy to 311u. Andrews 2231 USB wkg SAM 202, on 114u. (GT) SAM 201 2133 USB wkg Andrews on F114 w/rdo ck's. (MF2)
6989 Unid military 1838 USB pp re situation in Bosnia.
6993 SAM 201 2005 USB to Dulles. Snow in Andrews. 6 pax. (JP2) SAM 201: USAF C-20B tail 86-0201 2026 USB wkg Andrews re inbound to Richmond diverting from Andrews due to snowstorm. SAM 787: 2047 USB app E-4B 74-0787 wkg Andrews w/pp Andrews meteo for wx at OOMS at 2230z. (RB)
7472.5 FDC: French Air Force, Metz, F 1449 CW de FDC (DG)
7475 TEAMWORK 1350 USB wkg NIGHTWATCH 01. TEAMWORK passed 26-character EAM, & NIGHTWATCH 01 had the same problem I had in clearly hearing the 'fives' in the string. At 1416z, freq lit up with active waterdripper. (JH) WAR46: Alternate National Military Communications Center, Raven Rock Mountain, Pa 2051 USB wkg NIGHTWATCH 01 on W104 w/comms cks. (RB)
7535 SESEF Norfolk 1913 USB doing some red/green radio testing w/USS Klakring (FFG-42), KY75 crypto testing. SESEF Norfolk 1937 USB testing transmitter with Echo 5 Hotel. SESEF 1931 USB conducting HF radio tests w/USS Trenton & USS Saratoga (AM,USB, LSB also ISB). (MF2) N/A: USS Cole 1614 USB apparently precommissioned USS Cole wkg SESEF w/ANDVT tests although "USS" was used with name. NAWR: USS Arthur W. Radford 1645 USB (DD-968) wkg SESEF w/text comms. NSVN: USS Nicholas (FFG-47) 1746 USB wkg SESEF w/request to test 2 ABDVT's, & into "green". NIQM: USS Enterprise 1755 USB (CVN-65) clg SESEF Norfolk, no joy. NRLC: USS Conolly (DD-979) 1808 USB wkg SESEF w/ANDVT test. NTSA: USS Tortuga (LSD-46) 1823 USB wkg SESEF Norfolk for HF radio tests. NICK: USS Nicholson (DD-982) 1855 USB clg/wkg SESEF for tests, adv at Pier 5 (Norfolk). (RB)
7535.5 NCJE: USNS Stalwart (T-AGOS-1) 1545 USB w/HF testing w/SESEF Norfolk, unknown if off freq (7535) intentionally. (RB)
7536.5 HOPPER 12: U.S. Navy LCAC-12 1615 USB wkg AC4, w/rdo ck's in the clear & in the green, followed by roll call including HOPPER 19 (LCAC-19), HOPPER 37 (LCAC-37), HOPPER 39 (LCAC-39) & HOPPER 54 (LCAC-54); ea w/same. AC4: Assault Craft Unit 4 1715 USB Little Creek, Va, wkg HOPPER 07 (aka Landing Craft Air Cushioned hovercraft LCAC-07) for rdo ck. HOPPER 26:U.S. Navy LCAC-26 1826 USB clg AC4, Assault Craft Unit 4, Little Creek, Va, on radio 2 for rdo ck. (RB)
7598.2 Italian Army, Rome 1400 LSB wkg IEA05, IEA80, IEA90 @1400-1500 (ANEE)
7645 HOTEL 1959 USB clg GULF WHISKEY, HOTEL will be airborne in 10. GULF WHISKEY 2001 USB wkg GUNSTAR & WILDCAT. TANGO 2007 USB reporting 3 intercepts to GULF WHISKEY. (MF2)
7831 NIGHTWATCH 01 1845 USB wkg ROLLPACK. PINETREE 2036 USB clg NIGHTWATCH 01; not hearing NW's response; & wkg GOATPEN. (JH)
7933 Freebird 36 VIP flt from 86th Wing, Ramstein AB 2006 USB wkg Andrews on 420u. noisy, QSY 917u (not found). (GT)
7939.5 Team 1: Unid 1700 LSB wkg Team 2 w/voice/data. Black Cloud 2120 LSB clg Zebra Ops repeatedly. (JM)
8040 Freebird 36: VIP flt from 86th Wing, Ramstein AB 1943 USB wkg Andrews on 465u. noisy, back to 432u. (GT)
8120 Unid: 2324 USB American op w/'Thanks, nothing further at this time'...any clues? Have heard FAA, US Army, and an unid SHADOW 11 here in the past. (TB)
8122 Canberra Control 0705 USB wkg HMAS Protector. (RA)
8240 "Warship Northumberland" 2323 USB w/tfc w/unid stn (DHM). [GCOH: HMS Northumberland (F-238), a Duke-class type 12 frigate, clg Portishead

Radio for crew R/T tfc -LOGS] NORW: USCGC Jefferson Island 0715 USB (WPB-1345) clg CAMSLANT Chesapeake, no joy. NVAI: USCGC Valiant 2018 USB (WMEC-621) wkg CAMSLANT re pp tfc. (RB)
8294 ADMP: USAV Five Forks 0640 USB (LCU-2018) wkg RAIDER, 1097th TRANS CO, Rodman Naval Sta Panama, w/posn. AAFB: USAV MG Nathanial Greene (LT-801) 2320 USB wkg AAC2 re ADTK, USAV Col Seth Warner (LT-806), arrival at Cuba, will need fuel. (RB)
8297 ADTK: USAV Seth Warner 2300 USB w/posn 34N/76W. AADT: USAV Aldie 2300 USB w/posn 21N/75W. AAEF: USAV William Bunker 2300 USB w/posn, 32N/78W. (RA) ADMU: USAV Hobkirk 0438 USB (LCU-2023), clg ADMT no joy, at 0513 wkg AAC2, QTH Haiti. At 0501 wkg ADMM. AADT: USAV Aldie (LCU-2004) 0445 USB wkg AAEG. AAEG: USAV Kennesaw Mountain 0446 USB (LCU-2002) clg ADMU no joy. ADMM: USAV Contreras 0501 USB (LCU-2015) wkg ADMU, USAV Hobkirk. AAFB: USAV MG Nathanial Greene (LT-801) 0505 USB wkg AAC2 w/0100 (local) posn report on Ch.5. ADMO: USAV El Caney 0512 USB (LCU-2012), wkg AAC2, then clg AADT no joy. ADTK: USAV Col Seth Warner (LT-806) 0521 USB, wkg ADMO who is relaying his tfc to AAC2. (RB)
8764 NMN: CAMSLANT 1732 USB maritime wx forecasts & warnings.//13089.(KW2)
8968 GOLD 61 1240 USB wkg LAJES w/pp to 'ROTA' for wx, ETA 1240. NAVY GJ75 1544 USB clg LAJES, reply 'unreadable'. BLUE 41 1547 USB wkg LAJES req wx @'LAJES'@1700. REACH 90005 1619 USB wkg LAJES w/pp 'HILDA EAST', tanker off-load complete, adv to fly to Charleston, not McGuire. REACH 90066 1645 USB wkg LAJES w/pp 'HILDA EAST', T/N 90066. IF10A 1709 USB wkg LAJES w/pp to RAMSTEIN C/P for wx 1830. CROWN 96 1736 USB wkg LAJES w/pp to MILDENHALL METRO, also @1752 pp to Ramstein for Rhine Main wx @2030. At 1936 w/pp to Keflavic from Mildenhall as wx is bad (FOG), stopping at RAF Brize Norton for gas, ETA 0030. (AD) Unid 0134 USB w/pp for Howard Metro. (GG) ANDREWS 0615 USB wkg station (missed call), passing traffic (EAMs from the 0531z & 0604z GHFS EAM cycles); station did not have landline capability. At 0618z with 'repeat' EAM bcst, with string taken from the 0531z cycle, a minute past normal start time. NIGHTWATCH 01 0105 USB wkg someone, passing wkg freqs (X209/P381.) Did not sound like a pp. TRENTON MILITARY 1950 USB active on freq, complaining about 'interference' on freq - a 20-character EAM GHFS rotation "FOR TACHOMETER AND TRADEX" (or soundslike). OFFUTT 1515 USB as lead station, w/26-character ER... EAM string, followed at 1519z w/ another 26-character EAM string. During the second string xmsn, there was a brief 2-tone 'ring' caught by the mike - within a couple of seconds the EAM string was 'disregarded' to be followed by a FOXTROT bcst. Of interest, there was another 26-character string at 1615z. Typical Saturday EAM activity at a distinct weekly 1515z+/- time. DOG 02 1556 USB w/a general call 'on 89.' At the completion of OFFUTT's 1615z EAM transmission (1617 USB) FELIX 85 up on freq clg & raising OFFUTT re pp to a DSN 777 number id'd as HILL OPS/DISPATCH. (JH) Reach 72037 1930 USB to Frankfurt. Navy JW 270 1330 USB Brunswick-South Weymouth. (JP2) REACH 0535 (20535) 1900 USB wkg Croughton, pp Hilda ops matters, C-17 acft, tail #900535. Vator(?) 54 1910 USB wkg Offutt, pp AV: 346-XXXX cmd post (Youngstown IAP??). [VATOR is probably VADER 54 & pp was to Youngstown 'Battlestar' per other logs -LOGS] Aerovac 60130 1949 USB w/Lajes, pp Lajes CP. Shell 33 1958 USB w/Lajes, pp Grand Forks AFB ND cmd post, which ID as "Nordic", 19 POB's. Reach 60128 2000 USB w/Offutt, pp McChord cmd post & wx station. Sierra 4 Juliet Golf 2009 USB clg mainsail, neg contacts. Navy Lima Alpha 612 2014 USB Lajes, radio ck OK. Reach 50223 2015 USB w/Thule, pp McClellan AFB cmd post & wx, 2310 arrival ops matters, 9 POBs. Offutt 2049 USB w/emergency action msg prefix "ERIFFC". Reach 0535 2109 USB w/Thule, multiple pp's to Hilda, McGuire Cmd Post, metro wx. Flt level 31K, posn was N51' 51", W 047', 55". Est Arrival McGuire 0100Z. Reach 68307 2125 USB w/Thule, pp Dover Cmd Post, Metro wx, Hilda east, C-5 acft, 1 passenger, 18 pallets, est arrival Dover 0130Z. ?-21 2135 USB w/Offutt, pp Whiteman AFB base ops, 45 POB's (1138 military police), 8 crew members, est arrival 2310Z, needs 60K fuel. Offutt 1642 USB w/EAM Broadcast "ERH4HWW...". Selig 85 1644 USB wkg Offutt, pp Hill metro. (KW2)
8971 "The Ticker" 0045 USB w/occasional noise bursts between ticks. (MF) BLUESTAR 1934 USB asking PASSPORT 10 to pass comms again. PASSBOOK 03

1907 USB clg BLUESTAR, reports he is touchdown. BLUESTAR 1925 USB clg PELICAN 11, no joy. PASSBOOK 03 1933 USB wkg BLUESTAR, req to talk to WHISKY OSCAR, also relays his tasking info, tasking is south of his Green Area, also gives search area coordinates. Bluestar 1939 USB going green with Whiskey Sierra Juliet Golf. 3 Uniform India 1941 USB going green with Sierra 4 Juliet Golf. Sierra 4 Juliet Golf 1945 USB req datalink parameters from 3 Uniform India. Zulu Whiskey 818 1949 USB req radio check from Bluestar also req to go green. (MF2)

8974 STALION 004 2309 USB wkg RAAF Perth 36sqd, C-130H RAAF. Stalion 011 2132 USB wkg RAAF C-130H 36sqd. (SB)

8975 Royal Australian Airforce bases & Auckland New Zealand AF USB Everyday at 2100 & 0900, all bases call each other for radio checks. (BS)

8983 CG 1500 1659 USB wkg CAMSLANT, wx for Elizabeth City NC. CG 1719 2003 USB wkg CAMSLANT, posn 28,02N 84,01W flt ops normal. Kilo 7 November (K7N) 2004 USB clg CommSta New Orleans, no joy. (KW2) (& 5696) 1034 to 1131 USB A major rescue mission was underway off the North American east coast apparently involving a capsized catamaran. Life preservers were seen floating amid debris, but no survivors mentioned. Incident posn given as 38N/56W. The vsl in trouble seemed to be called Catamaran Chiffon, or something similar. Participating were: Rescue 1502, a USCG aircraft on the scene. Rescue 1720, a USCG HC-130 departing the scene to refuel at Bermuda. Rescue 314, a Canadian Forces C-130 from Greenwood, Nova Scotia, due to arrive on scene to replace Rescue 1502. New York RCC, a shore station, CAMSLANT Chesapeake, the main shore station controlling the operation. Merchant vessel "Newark Bay"/WPKS, on the scene and assisting.

8989 IFO 02A 2000 USB C-130 to Ramstein/working Thule(!!). AFB 601 1430 USB Bakou. (JP2)

8992 SEATRAIN 1532 USB wkg 9KY w/voice & unsuccessful ANDVT comms. SEATRAIN found in NIGHTWATCH net later in the day. (JH) AC 034 1027 USB Lisbon-Split/Selcal CM-BS /Port AF. (JP2) MacDill 1957 USB w/Skyking message. (KW2) MacDill 2009 USB w/pp for Navy Juliet Romeo 450 to Howard Base Ops & Meteo (Navy JR 450 was a C-20G). MacDill 2006 USB w/pp for Pat 247 to Andrews meteo & SAM CP (Pat 247 is a Army C-20 returning from Brazil). (MF2) PEARL/EARL 61: 2029 USB wkg MacDill GHFS w/pp PEARL/EARL OP's re is runway open? (RB)

8993 Unid 1856 USB with a general call for a radio check. (JH)

9007 Unid FF comms 2102 USB do French Canadians speak FF on Trenton military? (MF2) IFB01:CanForces a/c 0551 USB on Bosnia IFOR mission, wkg Trenton Military, pp Trenton Meteo. CANFORCE 88 2227 USB wkg Trenton Military poor copy, go to 11232 (RR)

9011 SAM 518 1100 USB Aviano to Andrews DV2 onboard. (JP2)

9013 SIDECAR 1540 USB wkg C8H (not heard here), req move to designator G-22. (JH)

9014 'Something' 24 2324 USB wkg 'something' 21 (could not make out the call) w/air-to-air comms, passing instructions, directions, etc. (JH) 'Something' 43 1945 USB (could not make out, but possibly ex DYESS) wkg RAYMOND 07 w/pp to CANNON wx. (JH)

9016 McClellan 2111 USB wkg ROWBOAT in voice/data. ROWBOAT in the NIGHTWATCH net. MACDILL 1526 USB clg MCCLELLAN. At 1528z, MCCLELLAN responds, & then into attempted data exchanges. (JH) PULLOVER USB req pp via Hickam GHFS to DSN, no luck, At 1438Z, Hickam asks what party at Tinker PULLOVER is requesting, & PULLOVER advises VQ-3 OpCon. At 1444Z, Hickam advises they were unable to find VQ-3 OPCON, but that they had Tinker Command Post on the line. PULLOVER advises Hickam GHFS to disregard, as PULLOVER was able to raise the requested party via another circuit. (TT)

9017 0200 Data exchange activity involving ROLLPACK and another station (could not make out id). FIRELIGHT 2102 USB clg NIGHTWATCH 01 and some other station (could not make out). MYSTIC STAR 1625 USB Station (female opr) appears to be placing pp's. At one point I think I caught 'Presidential', so I suspect the station is Andrews providing patches for someone. At 1506 weak station (IRONCLAW maybe, and maybe not) w/EAM xmsn, concurrent with GHFS rotation of same. Andrews 1625 USB wkg TROUT 99, providing various pp's for same. NIGHTWATCH 01 1731 USB clg SEATRAIN, then ASSOCIATE; raising SEATRAIN at 1733z, where SEATRAIN advised he was performing data check w/SEATRAIN radio check.

NIGHTWATCH 01 2034 USB w/74-character EAM (a common character count), simulcasting on 9017 & 11220 (DNEBIV...). EAM repeated (on simulcast freqs) at 2054z, then again at 2122z (with 26-character EAM (MZXGJ3..); repeated to SEATRAIN at 2139z; and repeated at 2151z when KIWIBIRD entered the net. At 2222z (common minutestamp this day for these things) NIGHTWATCH 01 up clg SEATRAIN, ASSOCIATE, & KIWIBIRD for radio checks, w/no response. WAR46 also active in net. SHUTOUT 1628 USB wkg NIGHTWATCH 01. 4742.0 also being used. At 1630z, GOATPEN, female opr; tuneup growl; EAM initiator) wkg NIGHTWATCH 01. GOATPEN often acted as relay station between NIGHTWATCH 01 & PINETREE (who could not hear NW01) as they moved from freq to freq. At 1657z, GOATPEN w/20-character EAM (MQ7STV.., picked up by GHFS at 1701z) to NIGHTWATCH 01 & SHUTOUT, simulcasting on 9017, 8968, & 11244. At 1945z, ROADSIDE (active at 0700z+ on GHFS) wkg NIGHTWATCH 01. At 2033z WAR46 works NIGHTWATCH 01; GOATPEN pops up & works NIGHTWATCH 01; & asks NW01 if SHUTOUT is still in the net (neither was sure). PINETREE 2052 USB wkg NIGHTWATCH 01. OILTANK 0324 USB clg NIGHTWATCH 01 "on nine zero one seven upper"; nothing heard, and gone. (JH) NIGHTWATCH 02: 2049 USB wkg NIGHTWATCH 01, att to relay comms for WAR46, req QSY W104. (RB) INFINITE 2319 USB wkg NIGHTWATCH 01 informing NW01 that they were no longer receive only. (TB) NIGHTWATCH (01), MACARONI, & WAR-46 in net USB Later chased off freq by E1F/Andrews. EXECUTIVE ONE FOXTROT (89th AW C-20) USB wkg Andrews, ETA destination in Texas was 1855z. (TT)

9023 DRAGNET SIERRA 1753 USB clg for signal check. No response. At 1757z, CHALICE ALPHA up on freq clg unk station (could not make it out). Unid 1754 USB Two stations in air-to-air intercomm traffic re something in the "..hot area planning on taking off." There were also further comms at varying 9023.# (0-5) freqs. DARKSTAR MIKE 1823 USB clg OKIE SAM (Tyndall) for signal check. Nothing heard and gone. DRAGNET SIERRA 1753 USB making a call for a signal check. CHALICE ALPHA active at 1757z. (JH) DARKSTAR MIKE: 1608 USB wkg unid unit w/ETA RAYMOND 24. (RB)

9023.5 Apparent air-to-air intercomm activity 1754 USB "..hot area...", chatter. (JH)

9031 IFB 13 0953 USB to Lyneham. Ascot 3293 1735 USB wx LICJ/LGIR/LGAT. IFN 94 1440 USB Nice. RAF helicopter. (JP2)

9037 Unid 0106 USB British male w/msg 'Operations Normal...transmitting in the blind'...then out. Have heard the exact same traffic here in Aug.95. (TB)

9057 RIDERLESS 2008 USB clg Nightwatch(not heard), Nightwatch asked them to move to S-310 (EG) KIWIBIRD 2308 USB clg NIGHTWATCH 01; nothing heard; then to 9017 where he called NIGHTWATCH 01, then any station. (JH)

9122.5 USACE Friday net 1500 w/ WUA, WUB5, WUG, WUI5, WUJ312, WUJ4, WUM, WUN, WUP and others. (DHM)

10000 RADDA 18(?) 2042 USB Honest, I swear. I am on WWV as you see right here and I'm hearing "Mainsail, Mainsail tripple one seven five". (PP) [probably hit the wrong pre-set -LOGS]

10150 Unid: 0815 USB Morocco? Army? (ANEE)

10780 Cape Radio 0627 USB wkg Ascension Radio, adv loud & clear. Cape Radio 0655 USB wkg ARIA 1, 11634 seems to be noisy at this time, we could use 17554 or 14432, they seems to be quiet at this time. (KS) Cape Radio: USAF ETR Cape Canavaral, Fl, US 0832 USB wkg Ascension Radio w/rdo ck's, adv had switch of circuits causing comms loss. (RB) CAPE RADIO 0927 USB radio-checking 3262 & adv 3262 that the launch was currently in a 7 minute hold, then they would have a 5 min countdown. CAPE RADIO advised that the support net was on 11217USB & that 3262 might be able to monitor some of the traffic there. (TT)

10845.5 Unid: 0900 LSB Spanish Army? (ANEE)

11175 REACH 463 1056 USB wkg CROUGHTON w/pp 'AVIANO METRO', ETA 1140. QUID 09 1100 USB wkg CROUGHTON clg 'INCIRLIK RADIO', Croughton replied, nothing heard. REACH 18153 1155 USB wkg CROUGHTON, req pp to 'HILDA EAST' & 'HILDA METRO' for wx @LRET @1530 & DAAG @1400, T/N 40630. A1. BH 30278 1305 USB wkg CROUGHTON, pp 'RHINE MAIN' CP & METRO, ETA 1630, T/N 70025. REACH 90066 1530 USB clg CROUGHTON w/no reply. REACH 01 1530 USB clg ALBROOK no reply. (AD) Unid 1500 USB Mossad #s (ANEE) Mainsail 0927 USB wkg JM 312 (US Navy a/c). Reach 0940 USB wkg

Ascension (C-141B) w/pp Mildenhall CP: etb 1210,PMSV wx EGUN 1200 (thx) & Ramstein 1050. IFO 60 0941 USB wkg Croughton (IFOR related). Spar 43 0947 USB wkg Incirlik (T-43). Spar 67 0950 USB wkg Croughton (C-9). IFO 15 1048 USB wkg Croughton (IFOR related. C-17?) w/pp DSN 480 5824 (Kingfish V): dep Ramstein 0927 eta LQSA (Sarajewo) 1205. IFO 15 1227 USB (much louder now), pp same nr: on the ground Sarajewo, no paperwork for on load, want to refuse the load, req, guidance: who wants to load? Lt.Col Rose ("as in the flower"), he says Stuttgart authorized it. w/pp DSN4802754: no paperwork -> no onload. X1G USB wkg 7DW. Reach 4R1 1125 USB wkg Croughton (C-141B) w/pp Ramstein CP: etb 1445, tailnr 40612, mission AJB4R1, A2 for fuel pump, nr. 4 engine blow-out door, need engine run parking spot for that. w/pp PMSV wx ETAR 1430, EGUN 1530, pirep: C-141 fl370, 55n 25w. Airevac 10S3 1137 USB wkg Mainsail (C-9). Again at 1214:w/pp (weak) arr Rota. Reach 2392 USB wkg Mainsail (C-17A). King 81 1159 USB wkg Croughton radio check. Reach 11S1 1222 USB wkg Incirlik w/pp Mildenhall CP, Hilda East -> "another frequency", lost contact (w/ me at least, I believe w/Incirlik as well). Grit 77A 1243 USB wkg Incirlik (C-12 6 Av.Det, US Army Vicenza, Italy) ID'ed as a US Army C-12 over Brindisi.w/pp DSN 634-7720: ID'ed again as a 6th Av.Det C-12 at fl280, refused entry to Albanian airspace, they wouldn't accept the diplomatic clearance, rtb Vicenza, eta 1400. Lost contact, ->11244 (Thule) same patch. c/s spelled. NATO 35 1115 USB wkg Croughton (Sentry, 8 Sq. RAF) pp Aviano PMSV wx 1300 (BH) MacDill, McClellan, and Andrews 2215 USB clg SAM 202. No joy. BEAR 14 0045 USB placed pp to 997 DSN #. Adv enrt to El Toro MCAS. NIGHTWATCH 02 2100 USB w/pp via MacDill to 1-800-857-XXXX, need password. (BWS) 0641 USB very long EAM, 132 characters by my count, beginning w/H3ZG. RIDERLESS 2005 USB wkg Offutt via pp for station Nightwatch wkg freqs, told primary X-903, secondary S-309 (EG) Fuzzy 93 1413 USB wkg Offutt GHFS, w/pp to DSN 238-xxxx, ('Fuzzy Ops', Niagara Falls AFB), to report their eta as 1145 local. AAOU 2222 USB wkg Albrook GHFS w/pp to DSN 283-xxxx ('Raider'). Raider said AAOU to go straight to El Salvador as fuel in Honduras is cancelled. Raider also gave the name of their 'point of contact' in El Salvador. SAM 973 1304 USB wkg Croughton GHFS, pp to Andrews VIP, no contact on 5u, QSY to 646u. (GT) JAMBO 33 2011 USB during Red Flag exercise at Nellis, declaring that it was having a fuel pump problem but was not declaring an IFE, he wanted this info relayed to Mudbug, his expected time at Nellis is 2215. (HG) GHFS 2215 USB w a 20/20/26 character EAM set over a 15 minute period. PAT 266 1752 USB wkg Andrews w/pp to SAM COMMAND. ORTHO 11 1920 USB wkg OFFUTT w/pp to SHADO OPS re activity at DUKE AIRFIELD. Up later at 2026z wkg MACDILL. SUMMO 74 2028 USB clg Andrews, then back up at 2041z wkg MacDill w/pp to DSN 577 number. FALLS 71 0026 USB (female opr) wkg HICKAM w/req for HICKAM to relay of downtime to EDWARDS DSN extension. SAM 202 1439 USB active on freq. MCCLELLAN 1526 USB clg ELMENDORF. Heavy GHFS to GHFS station data. SAM 203 2020 USB wkg MACDILL w/pp's to various CHARLESTON locations. SPAR 84 1547 USB active w/unid GHFS station, self-id as a "737" and "tail number 20284." (JH) ADMW 2041 USB clg Albrook, negative contact, at 2046 wkg MacDill w/pp to AV 283-xxxx. Reach 70016 2059 USB Offutt, pp Charleston AFB Metro, wx for 2300Z arrival Charleston & also Beaufort MCAS. (KW2) Albrook 1850 USB wkg pp for Reach 8 Juliet 8 to Lobo. Albrook 2109 USB wkg ADMW w/msg to Raider. ASCENSION 1918 USB w/pp for HERKY101 to RAMSTEIN METEO. OFFUTT 1920 USB w/pp for REACH 60197 to McCORD CP. OFFUTT 1923 USB wkg CROWN 95. OFFUTT 1935 USB w/pp for TURBO 11 to TRAVIS CP, TURBO 11 TAIL#1482. ALBROOK 1909 USB w/pp for ATLAS 11 to HOWARD METEO. MACDILL 2002 USB w/pp for GOLF 9 ALPHA to 7 WHISKEY ALPHA. ALBROOK 2005 USB w/pp for SHARK 85 to AMC BOGATA. MacDill 2023 USB w/pp for REACH 80223 to MacDill Meteo for wx at Port of Spain, Trinidad. ASCENSION 1908 USB w/pp for BRAVO HOTEL 211 to Ramstein AMC. OFFUTT 1910 USB w/pp for VIKING 11 to LAWSON AAF. ALBROOK 1920 USB w/pp for SHARK 04 to LOBO & HOWARD METEO. OFFUTT 1922 USB w/pp for NAVY AC 128 to a DSN#, 'GOLD HAWK'. SPAR 19 1927 USB clg for rdo ck. ALBROOK 2000 USB w/pp for SHARK 04 to LOBO. MacDill 1946 USB w/pp for HAVOC 42 to TACC (C-130 TAIL#41680). Ascension 1951 USB w/pp for REACH 70043 to Dover CP. MacDill 2000 USB wkg WOODLAND who req NIGHTWATCH primary & secondary,

S309 given as primary could here secondary X? Albrook 1856 USB w/pp for Whiskey 25 Uniform to Ft.Polk & Ft.Sherman. Albrook 1905 USB w/pp for Shark 32 to Lobo. Andrews 1908 USB w/pp for KING 81 to Polk field?(stepped on). Razor 02 1926 USB clg Mainsail,no joy. Doorbell 1929 USB clg radio check to Andrews Global, no joy. Knife 31 1933 USB clg Ascension, no joy. McClellan 1938 USB w/pp for Shadow 54 to Luke AFB meteo. Offutt 1944 USB w/pp for Viper 33 to a DSN#. Andrews 2022 USB w/pp for ABFV to DSN# in Panama, Andrews req a switch to 4724-P 15016-S nothing heard on either. Army 40163 2057 USB clg Mainsail, nothing heard. Andrews 2022 USB w/pp for Navy LIMA DELTA 10 ZULU to PANTRON? ops,Roosevelt Roads,P.R. MacDill 2029 USB w/pp for Navy LIMA TANGO 629 to a DSN#. Albrook 2031 USB w/pp for SHARK 21 to Lobo. Andrews 2037 USB w/pp for AEROEVAC 50259 Andrews CP & meteo. Andrews 2042 USB w/pp for Navy NOVEMBER CHARLIE OSCAR 2 DELTA to Opcon Ops. Andrews 2046 USB w/pp for BATON 42 to a DSN#. Andrews 1903 USB w/pp for TUFF 17 to Barksdale meteo. Andrews 1906 USB w/pp for REACH 70165 to Hilda America. Andrews 1909 USB w/pp for SPAR 76, moved to 11244 for pp to Andrews meteo (Primary for 76 is 8026). Albrook 1908 USB w/pp for SHARK 21 to Lobo. Albrook 1910 USB w/pp for REACH 8 JULIET 7 SIERRA to Howard meteo & Furious. Albrook 1918 USB w/pp for REACH 404 to Furious. Albrook 2001 USB w/pp for SHARK 21 to Lobo. Andrews 2004 USB w/pp for GOOSE 99 to DSN#. Ascension 2006 USB w/pp for AEGIS 43 to Pope AFB meteo. MacDill 2014 USB w/pp for HAWK 85 to a DSN#461. Andrews 2036 USB w/pp for REACH 59405 to Hilda. Andrews 2042 USB w/pp for NAVY JULIET WHISKEY 322 to DSN#. MacDill 2102 USB w/pp for ADMO to Raider w/posn report.(7.75 nautical miles off the Jamaican coast) (MF2) 6KO 1726 USB clg MacDill is challenged and then authenticates, places pp to COMSUBLANT for "EEHA". (MJ) Navy 589: NP-3D 0153 USB from Naval Research Lab, NAS Patuxent River, Md, BuNo 154589, w/Mainsail, Ascension GHFS ansr's, pp 342 DSN re ETA & need fuel & ordinance team. PAT 936:Army Priority Air Transport 1632 USB a/c wkg Offutt GHFS w/att pp tfc. ANVAL 03: 1746 USB wkg Andrews GHFS w/pp 366 DSN. CASTLE 22: 1804 USB wkg Andrews GHFS w/pp RAYMOND 32 re ETA, landing configuration. VIPAR 23: 1945 USB wkg Offutt GHFS w/pp MOFFETT RESCUE re ETA of 0045z. SPAR 84: 2023 USB wkg MacDill w/pp Andrews meteo for wx 2200z at Andy, also pp SAM COMMAND. S9W: unid USN 2033 USB clg 'any global', then atts to work Offutt for pp COMSUBLANT CWO. ABFV: USAV Marseilles 2038 USB (LCU-1669) wkg MacDill GHFS, pp RAIDER, re 1600L posn, 092100N/0850400W. NAVY DJ196: 2039 USB w/Offutt GHFS, pp 820 DSN, duty office LIBBY Op's. WISE 82: 2040 USB clg MAINSAIL, no joy. NAVY LK126N: 2046 USB w/MAINSAIL call, MacDill GHFS answers, pp 476 DSN. ?-316: 2114 USB wkg Hickam GHFS w/pp Fairchild AFB. ADMO: USAV El Caney (LCU-2012) 2141 USB wkg Albrook GHFS w/pp RAIDER (Panama), re posn, nearest point of ref is Horn Island. LOOK 94: EC-135 2144 USB wkg Albrook GHFS w/pp Howard AFB meteo, for 2330z wx. PAT 131: Army Priority Air Transport a/c 2328 USB wkg Ascension GHFS w/pp tfc. COUNT(?) 19: 2354 USB wkg Hickam GHFS w/pp Fairchild meteo. (RB) Reach 4583Y 2134 USB wkg Yokota, 8 acm's to clear customs, to depart day 30 Singapore to Diego Garcia. HAM-77 ?? 0003 USB clg Mainsail, not sure if it was HAM or Spam, but the 77 part is correct, any help some one please? (SB) BH30346 1940 USB Andrews/req pp to Ellsworth Metro. HOIST 50 2042 USB Andrews/req pp to McConnell AFB asking if they could handle them coming in to refuel, 30,000 lbs of fuel. KING 33 2154 USB Ascension/ req pp to Americas Cell. Shark 25 1249 USB Albrook/req pp to Albrook Metro dest BOG. SPAR 63 2056 USB MacDill/req pp to Gander Sentry?. TIGER 51 1942 USB MacDill/adv they are off freq. (TO) FRED 53 1934 USB is refueling "5 HIGH WEST/EAST" with EARL 22 [p/p thru Hickam]. SHARK 30 [?] 1948 USB Headed for Howard AB [Panama]. Left "Sotiano" [help! I know I have heard this before, but where is it, Italy?]. Has four pallets. Wants info passed to "Oak" [Coronet Oak, I presume]. KING 65 1955 USB w/pp to GUN RUNNER [through Hickam]. Reports airborne at 1945Z, duration 2.0. This may be NIGHTWATCH related. [Bob Lewallyn later confirms GUNRUNNER is a long standing call for the AF Reserve Headquarters/Command Post at Robins AFB, GA. -LOGS] BANDO 18 2004 USB reports OPS normal. DIXIE 02 2005 USB calls "Any radio", then MacDill then Albrook. Albrook answers. Wants pp to DSN 778-2441 [not on my list, help!] (TR) [Bob Lewallyn

later posted this DSN is GOPHER OPS, Birmingham ANG Base, AL, probably used by the 11th ARW KC-135s. -LOGS] November 1 Victor 2010 USB req pp to DSN 312-820-4592 [not on my list either]. Reports OPS normal to duty office. ET on station in 15 minutes. "Off deck" used in conversation so this is Navy/Marine bird. Duty office wants to know "souls on board" [Chaplains on TAD/TDY?] {16}, fuel state {7.0}, & Mode three {1200}. (TR) [Souls On Board is an older term for now preferred Persons On Board (POB) -LOGS] GEIGER 52 2022 USB wants DSN 346-1315 (BATTLESTAR). Then he decides to change call sign to VADER 52. He launched from Travis and is going to Youngstown [Ohio?] & then apparently to Milwaukee. Apparently wx is deteriorating. BATTLE STAR passes "RCR" which was runway conditions at Youngstown. [BATTLE-STAR is 910th ALG at Youngstown-Warren RAP, Ohio -LOGS] HOIST 94 2045 USB told by Hilda to divert to Dover after AR. This causes much confusion since this was his original plan anyway. REACH 239 2121 USB discusses w/Hickam attempts to get some DV back to Travis. Navy HI263 2142 USB pp to DSN 476-???? [garbled/weak] which apparently is GOLDLOCK. Asked if GOLDLOCK had copied their alligator traffic. Also they ann they were delayed "on station". [probably GOLDENHAWK -LOGS], HOIST 94 2150 USB calls MacDill, MAINSAIL, & finally gets McClellan. Asks for Hilda. They are told McGuire cancelled their AR, they are to go to Dover AFB [Delaware]. Apparently their refueller couldn't de-ice fast enough to allow them to get off the ground due to the great blizzard of '96. REACH 50257 2215 USB is "PAM 2077 Mission 0005". In blocks, maint status A-2 due to bad "standby attitude indicator light", 17 pax. Asks ground station [??] if they have outbound computer op plan. They are headed for Guam. WISE 83 2235 USB w/Ascension. States they were using callsign RAZOR. Calls Plantation Ops [16th SOL, Hurlburt Field according to various previous posts to WUN]. These previous posts also note the a/c working Plantation OPS was using callsign WISE. DART 44 2327 USB passes following to Dyess AFB: at 3430N/10430W FL250. [Eastern central New Mexico]. On 29 March & 7/14 August 1995 I heard other DART a/c call Dyess AFB, Tx. Charley 2 called by Tango Kilo 2310 USB TK is sitting at the pier at Gitmo [Guatanamo Naval Base, Cuba]. Mention of "LT 801", pp is through Albrook. (TR) [TK is ADTK, USAV Col Seth Warner (LT-806) w/pp AAC2 shortened to C2, Harbormaster Fort Eustis, Va. The LT (Large Tug) 801 is ADTF MG Nathanial Greene -LOGS] VIPER 33 USB w/pp to DSN 359-9355 via Offutt GHFS. VIPER 33 advised VIPER OPS (which ID'ed as Moffett Rescue) that 33's ETA to Moffett was 0045Z. RAIL 77 USB w/radio-ck from MacDill GHFS. RC-12 Guardrail a/c? AXIS 18 USB w/pp via MacDill to DSN 361-4820/2272. 18 adv AXE OPS (42nd ACCS, Davis-Monthan AFB) that they would be running 30-45 minutes late due to ATC requests, & waiting parties should meet crew at Base Ops upon 18's arrival. EC-130E ABCCC a/c. HOBBY 35 USB w/pp via MacDill GHFS to Foxtrot (437th Airlift Wing Supervisor of Flying) at Keesler AFB. 35 adv FOXTROT that HOBBY 35 was experiencing a visible fluid leak from #4 engine, & was enrt to home plate (Keesler) instead of heading to Youngstown IAP ANGB, w/2015Z ETA. S9W 1843 USB req pp via Albrook to the COMSUBLANT CWO at Norfolk on 11175. It was the usual "Initiate Esteem Highly Alpha" stuff, & the Comms Watch Officer responded with a 191846Z Time Of Receipt, & the patch was terminated. But two mins later, S9W was once again calling Albrook, req a pp to COMSUBLANT CWO, after delay, adv Albrook that pp was high-priority as she was going to pass a 'man overboard' report! CHINE 31 USB req pp via Albrook, Albrook requests Offutt support 31. CHINE 31 req pp to DSN 456-7416, ANG Ops at Francis Gabreski ANGB, NY. CHINE 31 adv ANG Ops that 31 was a 5th SOS HC-130 66 model wanting to divert to Gabreski to see if they could repair CHINE 31s autopilot, before 31 continued on to Mildenhall Air Base. ANG Ops advised that their Rescue Squadron maintenance (HC-130s...) people should be able to assist. 31 advised their ETA was 1740Z. META 51 USB w/pp to Patrick AFB CP via Offutt Global. 51 req a PPR # for a divert to Patrick. C.P. adv META 51 that Patrick Base Ops handled all flying ops, so 51 would have to contact them. In pp to Patrick Dispatch, META 51 adv they were a C-130 enrt to Delaware from Davis-Monthan AFB, & might have to divert to Patrick due to wx (major winter blizzard hitting eastern USA), & req a PPR. Patrick gave them a PPR, & 51

adv theyd call back in about 45 mins & confirm one way or another whether or not they'll divert. META 51 called back via Andrews Global at 1936Z & confirmed they would be enrt to Patrick, w/a 2200Z ETA. A/c had 7 crew, 1 pax & no cargo. Possible tail # of a/c was 40206. PLUG 31 USB w/pp via Offutt GHFS to SPECTRE OPS. 31 adv they had a 2100Z ETA, would require 2 vans & one bus, & to notice Customs of the early arrival time. SPECTRE OPS IDed as SANDCASTLE OPS throughout the patch. SNOOP 56 USB w/pp to Mildenhall Metro via Croughton. 56 needed at 2150Z forecast, then talked with Metro about diverting elsewhere due to the conditions at Mildy. SKYKING SKYKING, for all JAMBO-flagged aircraft, contact MUDBUG 99 when returning to home station repeated twice by JAMBO 23. ADMP USB w/pp to RAIDER via Albrook GHFS. RAIDER started to pass NFL football game scores, & the operator at Albrook terminated the patch. GHFS operator then advised ADMP that patch was terminated due to inappropriate traffic. ADMP said they understood, & cleared. (TT)

11180 Croughton discrete Spar 67 from Villafranca to Ramstein clg "Freebird ops" on DSN 4802116 (new c/sign ?-used to be "Gulfstream")

11193 Royal AF Volmet 1712 USB wx observations select aflds. (KW2)

11214 DRAGNET SIERRA 1722 USB wkg Trenton Military w/pp to unk party (missed it) re setting up 'format training' at 1800z on 9023.0; and then pp to NIGHTWATCH 01 (at a DSN 887 prefix) to get wkg freqs in order to conduct tests. NIGHTWATCH USB advised P381 and W105, but that he was monitor only until around 1830z. (JH)

11217 Navy 844: 2053 USB wkg MacDill GHFS w/rdo ck. (RB) DOD CAPE 0930 USB wkg KING 1, KING 2, KING 3, USCGC Confidence, & CLEARANCE 1 on STS-72 launch range support net. DOD CAPE req on-scene wx from Confidence at 0938Z. Did a brief countdown & advised of successful launch a few minutes later. Net was officially terminated at 0951Z. Confidence was advised their helo could RTB, CLEARANCE 1 was told to have a safe trip & contact ATC or CAPE RADIO on 10780 if they needed any assistance. (TT)

11220 RIDERLESS 2009 USB wkg Nightwatch, authenticated into net, had no traffic at this time. Told this would be primary, S-309 would be secondary. (EG) Andrews 2228 USB wkg SAM 202, radio cks, qsy back to 114u. AF2 2007 USB wkg Andrews on 311u (with 6.683/731u as secondary), landed at 2147. (GT) NIGHTWATCH 01 2008 USB active with unk station. 2001 USB 26-character EAM at 1958z, followed by Offutt w/same on GHFS at 1959z, then NIGHTWATCH 01 up on freq at 2001z clg & wkg WAR46. WAR46 to be off the air for 1 hour. NIGHTWATCH 01 2133 USB with 26-character EAM to ROWBOAT and one other station. Quiet until 2215z, when ROWBOAT (very strong) worked NIGHTWATCH 01; then at 2216z, NW01 works WAR46. NIGHTWATCH 01 1504 USB wkg IRONCLAW. NIGHTWATCH 01 1951 USB (at good level into Texas) wkg WAR46. SAM 202 1902 USB clg Andrews. SAM 682 0007 USB clg Andrews. (JH) Nightwatch 01 1950 USB up & looking for Spellman w/a Papa message on S310. Butternut 1958 USB clg Nightwatch, nothing heard. About a minute later Nightwatch came back looking for Butternut,nothing heard. Nightwatch 2003 USB wkg Methodist to authenticate Juliet Golf, Nightwatch also confirmed station Butternut and Spellman where on the net. (MF2) SAM 200: USAF C-20B, tail 86-0200 2130 USB wkg Andrews VIP w/comms ck's in USB/LSB. (RB)

11229 PINETREE 2041 USB clg NIGHTWATCH 01, but raising GOATPEN. PINETREE enters the net w/GOATPEN (after GOATPEN asked & got permission from NW01 to perform the chore). GOATPEN opr advised PINETREE that 'current traffic' was MQ75TV... (first broadcast at 1657z), then corrected herself and said that there was 'no current traffic in the queue.' (JH)

11232 Trenton Military 2229 USB wkg CanForce 88 re location, reply -Bagatel, copy poor go to 6745. (RR)

11235 Striker-225 0349 USB wkg RAAF Darwin, 10sqd P-3 Orion. (SB)

11244 SPAR 76 USB wkg Andrews, passed that they were on 8026 w/VIP/ Presidential radio. They are returning there now. (JC) TEAMWORK 1321 USB wkg MacDill, getting wkg freqs for NIGHTWATCH net: S301; W101. At 1344z, back up w/MACDILL, pp to NIGHTWATCH & inquiring if NW01 had received traffic ZAYK6P. Negative, as NW was having equipment problems. Back to S301. Offutt 1308 USB as lead station (but MacDill at 1305z) with 145+/- character EAM string

(H362WD...). TWILIGHT 1607 USB wkg Andrews, getting wkg freqs for NIGHTWATCH 01: P381; W105. Andrews 1455 USB as lead station, w/ 20/20/26 character EAM set over a 10 minute period. Unid 1646 USB clg NIGHTWATCH 01 "on S393." No reply, and gone. Andrews 1509 USB as lead station (good level, but propagationally hollow and distorted) w/20/20/26 character EAM set over a 10 minute period (plus it is at the 'normal' Saturday 1515z+/- EAM xmsn time). Unlike the recent past, numerous GHFS stations were heard with this rotation, including THULE (or maybe ersatz-Thule as there were remote keyup tones on the signal). Andrews 1603 USB as lead station (hollow & distorted, & sometimes unreadable) with 111+/- character EAM: BDG2FR. At completion of the set, Andrews back up with another MAINSAIL call, & a repeat of the previous BD... EAM set. MacDill w/his xmsn of the string did not have the propagational distortion of Andrews. Andrews 1802 USB as lead GHFS station, with an EAM "For.." something. Andrews 1923 USB as lead station, with 82-character (+/-) EAM: BDY3IW... GHFS 1314 USB with an EAM "For..." something starting w/a "c". McClellan 1532 USB clg ELMENDORF (maybe 'all freq request'), & raising same, adv ELMENDORF that a station on 11175 is standing by for comms with ELMENDORF. Unid 1746 USB with 26-character EAM, found simulcasting same on 6739.0. Could not find net primary freq with this string though. McClellan 1250 USB as lead station, w/157-character EAM transmission: H3 series. McClellan 1414 USB as lead station with 26-character EAM xmsn. Also earlier at just after 1300z, but no EAM set at 1515z (a break from the recent past few months.) The hour became active at 1540z however, and there was a 48-character EAM at 1547z (BDFZTC...). MCCLELLAN (lead station) 1600 USB w/20/20/26 character EAM set within 10 minute period. ALBROOK 1552 USB clg SAM 300. OFFUTT 1421 USB as lead station, with a 6/20/26 character EAM set over a 12 minute period. At 1437z, a 'whistler' up on freq for a few 'calls', then gone. OFFUTT 1503 USB w/the start of an EAM transmission, using F44WVH as the preamble. Disregarded the thing before the completion of the thing. Back up at 1553z with at least a 20-character and (at 1558z) 26 character EAM set. (JH) Offutt 2113 USB wkg Reach 70033 w/pp. ALBROOK 1924 USB w/pp for SPAR 84 to Panama. Mulberry 2000 USB clg Andrews, no joy then tries Mainsail, Albrook answers, req Nightwatch freqs. Primary is S312-13211 Secondary is X903-6730. (MF2) McClellan GHFS:Ca, US 2110 USB wkg FOUL LINE re unable to contact station NIGHTWATCH, confirms active freqs. (RB) NIGHTWATCH 02 USB contacts Andrews GHFS and asks if Andrews is capable of making pp to WATS numbers. Andrews advises yes, so NW02 req pp to a 1-800 #. At 2048Z Andrews advises that the #s operator is req password. NW02 adv Andrews to connect 02 w/the # & NW 02 would handle that. NIGHTWATCH 02 req that Special Activities let NW01 enter the training sub-conference. Nothing else happens for several min, so NW02 adv Andrews to terminate & then re-initiate the patch. A minute later, Andrews advises NW02 that the operator advised there was no one in the conference, which explained why NW02 didn't hear any activity during the pp. At 2058Z, NW02 had no further traffic for Andrews. COBRA 19 USB w/pp to a Tinker AFB DSN via MacDill GHFS. COBRA 19 advised OpCon (VQ-4) that theyd need a PPR for NAS New Orleans. (TT)

11460 Sam 681 1014 USB to Amman. (JP2)

13200 REACH 40621 2053 USB clg Andrews. Just prior to this call, the freq lit up w/ALE burst & an apparent response pulse. (JH)

13206 WISE 63: 1957 USB wkg PLANTATION OP'S (Hurlburt Field) w/HF rdo cks. (RB) MOKIE (?) 41 USB adv PLANTATION OPS that 41 was ROYAL at that time. PLANTATION OPS acknowledged ROYAL at 1903Z. MOCCASIN 14 (AFSOC helo) called PLANTATION OPS and advised that 14 was airborne, for a second time, at 1940Z. GASER 93 called & radio-checked PLANTATION OPS at 2029Z, clear-voice & KY-75. (TT)

13211 ROADSIDE 1946 USB clg NIGHTWATCH 01. (JH) MULBERRY 2002 USB wkg Nightwatch, who is too weak to copy. (MF2) NIGHTWATCH 02 1851 USB w/pp re establishing links. NIGHTWATCH 02 1907 USB w/NW 01 re req call Pentagon, have them reload crypto, we lost tone at 1905" Seems as if main activity of this net is demonstrating ability to establish & maintain links. (RR)

13242 Andrews 1817 USB w/2 pp's for Batter(?) 16. (GG)

13440 SAM 973 1307 USB wkg Andrews, radio cks on 646u. (GT)
13960 SAM 518 1742 USB w/pp Andrews (GG)
14440 NNN0CUO: 2335 USB & NNN0CUQ (barely readable in the background) w/other Navy MARS (GG) [CUO is USS Sprunace (DD-963), CUQ is unid, help? -LOGS] NNN0CXN: Unid 1530 USB USN Mars, wkg NNN0NGW (ANEE) [CXN is USS Portland (LSD-37), NGW is USS George Washington (CVN-73) deployed to support Bosnia op's -LOGS]
14443 Unid: 1530 USB USN Mars same as above QSY due to QRM (ANEE)
14838.3 NNN0MDA: USN Mars 1530 USB wkg NNN0JMQ to NNN0CYZ via NNN0MDA, ship in western Mediterranean (ANEE) [CYZ is USS Whidbey Island (LSD-41) -LOGS]
15016 Andrews 2304 USB w/pp's for LOBO/LOGO? 289. (GG) TIGER 60 1645 USB active on 15016 wkg Ascension (and briefly McClellan) w/pp to RAYMOND 33. TIGER 60 appears to be ready to declare an IFE (maybe) & discussed the use of 13777 & AFSATCOM for future comms re his problem. McClellan 1636 USB as lead station with EAM string FOR THRALL. The transmission interrupted TIGER 60's comms with ASCENSION (& MCCLELLAN briefly) re TIGER 60's probable IFE. BUSH PILOT 0123 USB clg MAINSAIL 'for radio check' on 6739, then 8968, & finally landing on 15016, w/no reply. Then BUSHPILOT with 26-character EAM (MQ4677...) repeated at h+25 & h+51 from 0125z through 0251z (nothing after,) & simulcasting on 15016 & 8968. Minutestamp similar to NIGHTWATCH 01 activity on 07 Jan (h+22, h+51), and exactly same as activity on 20 Sept 95 involving TIGERACE at h+25, h+51 (1825z-1951z at least.) (JH) ADMO 2053 USB w/Ascension, pp Raider, posn report 23' 38" N, 86' 25" W. Reach 7001 1749 USB clg mainsail -- no joy. (KW2) Albrook 1952 USB w/pp for Shark 18 to Lobo & Southcom meteo. MacDill 2001 USB w/pp for Reach 60184 to Dover CP. Ascension 1927 USB telling SCORPION that Nightwatch is on Primary S-381 & S W-104. Anyone know what freq S-381 is? Ascension 1929 USB w/pp for REACH 40466 to Hilda East & McGuire CP & meteo (REACH 40466 is a C-141) McClellan 1921 USB making a all frequency request for REACH 521 Albrook 1933 USB w/pp for SHARK 12 to Lobo. (MF2) TIGER 60 USB wkg RAYMOND 33 (via Ascension Global) that it was preparing to call an emergency w/RAPCON due to a suspected air leak in an inter-cooler. Tiger 60 was bound for Ellsworth AFB. Tiger 60 said it would monitor 13.777. AAOU: Army Vessel Manassas 2110 USB called MacDill for a pp to Raider. The vsl gave its posn as 9N/85W, & Costa Rica & El Salvador were mentioned. (RA) SHARK 21: 1931 USB wkg Albrook GHFS pp, LOBO. KING 76: USAF fixed-wing aero 2047 USB rescue a/c wkg McClellan GHFS w/pp to 273 DSN no. SLUFF 32: 2110 USB wkg MacDill GHFS w/pp Wright-Patterson CP, meteo, pirep ID's a/c as C-130. (RB) PETRO 71 USB w/pp to Tyndall AFB Base Ops via McClellan GHFS. 71 adv they were a KC-10, part of a CORONET deployment, escorting F-15s back to Tyndall from Kadena A.B. Japan, with a 2345Z ETA & info should be passed on to the Weapons Evaluation Group. PETRO 71 had 12 pallets, 58 duty-pax, 6 Space-A pax, and was currently FL 370 over Arizona. SIERRA 46 USB w/pp via Albrook to NAS Fallon base ops. The a/c IDed as a KC-10, & wanted to know if they could do an hours worth of local pattern work (shoot approaches) at NAS Fallon, starting at about 2130Z before heading back to Travis. Permission granted. (TT)
15560 Ascension Radio 0810 USB wkg ARIA 1. (KS)
16540 Juliet Golf 2014 USB clg VEC, CBL, & BL for r/c's. Mike Romeo Echo 2016 USB clg MRC. Juliet Echo 2018 USB clg Echo Bravo (RM)
16911.2 JNA: Japanese Navy, Japan 0145 CW VVV de JNA (EW)
17227.6 ZLO: RNZN Auckland, NZ 1048 CW cq (EW)
17976 Unid GHFS 0641 USB very long EAM, 132 characters (EG) Reach 70033 2107 USB clg Offutt radio, nothing heard. McClellan 1922 USB wkg SNOOP 43, because of weak signal 43 was going to try someone else McClellan 1938 USB passing a EAM to RAID 89 (MF2)

=ALL OTHER SSB/AM/CW/& MISCELLANEOUS MYSTERIOUS STATIONS=
179.6 LW BEACON 1101 Location: Winter Garden,Fl.15 miles WEST of Orlando,Fl. per: Andrew Everhart-N9WCN
185.7 JPH Riverdale, MD (JL2)
195 TUK Nantuket, MA (JL2)
198 DIW Dixon, NC (JL2)
206 GLS Galveston, TX. QI Yarmouth, NS Canada (JL2)

209 MT Chibougamau, QUE Canada (JL2)
212 ESN Easton, MD. TS Timmins, ONT Canada (JL2)
214 OHE Monahans, TX (JL2)
216 CLB Wilmington, NC (JL2)
217 RL Unid (JL2)
219 YMG Manitouwadge, ONT Canada (JL2)
221 FB Unid. AYI Hanco, MS (JL2)
222 FDR Frederick, OK (JL2)
223 DA Ft. Belvoir, VA. YYW Armstrong, ONT Canada (JL2)
224 YUY Rouyn, QUE Canada. QM Moncton, NB Canada. MO Unid (JL2)
225 YM Unid (JL2)
226 RJD Unid (JL2)
227 SNL Shawnee, OK (JL2)
229 GDX Upperville, VA (JL2)
230 QB Quebec, QUE Canada. AQE Greenville, NC (JL2)
232 MX Unid (JL2)
233 QN Nakina, ONT Canada (JL2)
236 GNI Grand Isle, LA. OW Ottawa, ONT Canada (JL2)
237 DYL Doylestown, PA (JL2)
238 EZF Fredericksburg, VA (JL2)
239 VO Val-D'or, QUE Canada. UBC Ballinger, TX. FE Forestville, QUE Canada (JL2)
241 VKX Potomac NDB (JL2)
244 YVB Bonaventure, QUE Canada. DG Chute Des Passes, QUE Canada (JL2)
245 ANR Andrews, TX. PTN Patterson, LA. YZE Gore Bay, ONT Canada (JL2)
247 FRT Unid (JL2)
248 UL Montreal, QUE Canada. IL Wilmington, DE (JL2)
250 YTJ Terrance Bay, ONT Canada (JL2)
251 AM Amarillo, TX (JL2)
252 CJR Culpepper, VA (JL2)
253 YTF Alma, QUE Canada (JL2)
254 5B Summerside, PEI Canada. LLW Elizabeth City, NC (JL2)
256 DEF Slidell, LA (JL2)
257 CGE Cambridge, MD. SQT Melbourne, FL (JL2)
259 YXR Earlton, ONT Canada (JL2)
260 PYA Penn Yan, NY. XCB Unid. JH Jackson, MS. YAT Attawapiskat, ONT Canada (JL2)
263 YGK Kingston, ONT Canada (JL2)
265 XPZ Winchester, VA (JL2)
267 RT Unid. YFH Unid (JL2)
269 URX Bagotville, QUE Canada (JL2)
272 YQA Muskoka, ONT Canada (JL2)
273 ZV Sept Iles, QUE Canada (JL2)
275 SWW Sweetwater, TX. ING Ambler, PA (JL2)
276 YEL Elliot Lake, ONT Canada. TWT Sturgis, KY (JL2)
278 NM Matagami, QUE Canada. SB Unid (JL2)
280 GZV Graford, TX. QX Gander International, NFLD Canada (JL2)
281 LJK Ashland, VA (JL2)
284 DTI Unid. PTB Petersburg, VA. (JL2)
287 MKP McKeesport, PA (JL2)
289 YLQ La Tuque, QUE Canada (JL2)
290 OLR Chickasha, OK. TMV Stamford, TX. TVK Centerville, IA. (JL2)
295 CB Cabo Blanco, Argentina (JL2)
297 G Galveston, TX (JL2)
303 YPP Parent, QUE Canada (JL2)
305 RO Roswell, NM (JL2)
311 BFE Brownfield, TX (JL2)
312 UUU Unid (JL2)
314 GGU Prague, OK (JL2)
317 I Montreal/Mirabel International, QUE Canada. R Trenton, QUE Canada. CBE Cumberland, MD (JL2)
318 HFY Indianapolis, IN (JL2)
320 CLK Clinton, OK. TY Tyler, TX (JL2)
323 GTN Georgetown, VA. UWP Argentia, NFLD Canada (JL2)
326 MA Midland, TX. PKZ Pensacola, FL. PKZ Pensacola, FL. BHF: Freeport/Grand Bahama Is, Bahamas. FC Fredericton, NB Canada. VV: Wiarton, ONT Canada (JL2)
328 YHN Hornepayne, ONT Canada. BZJ Indiantown Gap, PA (JL2)

329 CH Charleston, SC. BUY Burlington, NC (JL2)
332 DC Washington, DC. YT Unid. FIS: Key West, FL (JL2)
333 YFM Unid (JL2)
335 YLD Chapleau, ONT Canada. SW Newburgh, NY (JL2)
336 BV Quebec, QUE Canada. FE Unid (JL2)
338 MS New Orleans, LA. LSA Lamesa, TX. DE Unid. ZEM East Main River, QUE Canada (JL2)
340 YY Mont Joli, QUE Canada (JL2)
341 YYU Kapuskasing, ONT Canada. LUJ Big Lake, TX. MTN Baltimore, MD (JL2)
344 CL: Cleveland, OH. GNC: Seminole, TX. JA: Jacksonville, FL (JL2)
346 IA Dulles Airport, VA (JL2)
347 YG Charlottetown, PEI Canada (JL2)
349 APG Aberdeen, MD (JL2)
350 LE Raleigh, NC. RG: Oklahoma City, OK (JL2)
351 YKQ Fort Rupert, QUE Canada (JL2)
352 SI Unid (JL2)
353 AB Abilene, TX. QG: Windsor, ONT Canada (JL2)
355 SJ San Angelo, TX. YWP Webequie, ONT Canada (JL2)
356 PB West Palm Beach, FL (JL2)
359 SDR Snyder, TX (JL2)
360 RW Andrews AFB/Washington DC. PN Port Menier, QUE Canada (JL2)
362 SB Sudbury, ONT Canada (JL2)
363 RNB Millville, NJ (JL2)
365 FT Ft. Worth, TX (JL2)
366 YMW Maniwaki, QUE Canada (JL2)
367 YMU Unid (JL2)
369 2Q Muskox, NWT Canada (JL2)
370 UCM Camaguey, Cuba. GR Iles-de-la-Madeleine, QUE Canada (JL2)
371 FND Baltimore, MD. GHX Graham, TX. SOA Sonora, TX. FNA Slidell, LA (JL2)
373 2R Tyendinaga Mohawk, ONT Canada (JL2)
374 SA Sable Island, NS Canada (JL2)
376 ZIN Great Inagua, Bermuda (JL2)
378 RJ Roberval, QUE Canada (JL2)
379 BRA Asheville, NC. CM Channel Head, NFLD Canada (JL2)
380 BBD Bradly, TX (JL2)
382 D9 Huntsville, QUE Canada. UPA: Punta Allegre, Cuba. YPL Pickle Lake, ONT Canada (JL2)
384 F8 Victoriaville, QUE Canada (JL2)
385 GAI Gaithersburg, MD. COM Coleman, TX. EMR Augusta, GA. NA Unid (JL2)
387 PV Providenciales, Bahama Islands (JL2)
388 MFV Melfa, VA. AM Tampa, FL (JL2)
390 JT Stephenville, NFLD Canada (JL2)
391 DDP San Juan, Puerto Rico. 3B Brockville, ONT Canada. OO Oshawa, ONT Canada (JL2)
392 ML Charlevoix, QUE Canada (JL2)
394 YB North Bay, ONT Canada (JL2)
395 XEN Xenia, OH (JL2)
400 G: Windsor, ONT Canada. ROB: Waco, TX. NHK: Patuxent River, MD (JL2)
403 LTS: Unid (JL2)
404 IUB: Baltimore, MD. YSL: St. Leonard, NB Canada (JL2)
407 AKL: Haskell, TX. H Montreal/Saint Hubert, QUE Canada (JL2)
411 CTZ: Clinton, NC. VFU Van Wert, OH (JL2)
413 YHD: Dryden, ONT Canada (JL2)
414 BC: Baie Comeau, QUE Canada (JL2)
415 CBC: Anahuac, TX (JL2)
417 HHG: Huntington, NC (JL2)
419 HQT: Coats, NC. RYS Detroit/Grosse Ile, MI (JL2)
420 GAS: Gallipolis, OH. CFY Lake City, SC (JL2)
421 EF: McKinney, TX (JL2)
425 DX: Unid (JL2)
427 FTP: Fort Payne, AL (JL2)
428 SYW: Greenville, TX. COG Orange, VA. EEJ Sanford, NC (JL2)
433 IZN: Lincolnton, NC (JL2)
435 IIY: Washington, GA (JL2)
450 PPA: Puerto Plata, Dominican Republic (JL2)
516 YWA: Patawawa, ONT Canada (JL2)

526 ZLS: Stella Maris, Bahamas (JL2)
1639 PX: Berlin, MD (JL2)
1802 ZE 55 0945 1125 CW beacon with sequence: "ZE55-----[long dash]-----" repeated at approx 10 WPM, 3 repeats each 4 minutes. (RF)
2227 UNID: 2013 CW Calls "PAK8 de FYLQ" "71 20 18 2110 = 268 PAK8 = then 5LG's. (DW)
3270 Numbers station YL/EE repeating Kilo Papa Alpha Two (KPA2) strong, but fighting it out with broadcaster; probably Namibia. (MS2) [Mossad -LOGS]
3358 EHH3: Jezo Barcelona Guardia Civil UTC? CW. EHH3: Guardia Civil Jezo, Barcelon UTC? CW (ANEE)
3840 Unid 1900 USB English #s 1900 (ANEE)
4063 Unid 1900 USB Hebrew (ANEE)
5000 "WODEK" 1445 USB in Egypt w/"ANOSKJA" (both phonetical). (JJ2)
5004 IRKUTSK TS (RID) 2250 CW Time signals. (DW)
5008 UNID [NIJW] 1345 CW Weak sigs. Opr sigs appear generated via keyboard technology rather than via a key. (DW)
5009.7 UNID. [S53P] 1536 CW 5009.76. F1a. Call to CRGF & 3LCZ de S53P. Mark on low tone. (DW)
5021 UNID. 1402 CW Tfc (with acc letters) in offline encrypt. Circa 28wpm. (DW)
5064 MN GEORGETOWN (9MB) ? 1617 CW Tfc in offline encryption w/5LG's.(DW)
5150 Weewak PNG Telefonim system 0950 USB various callers. Kerema PNG 0950 USB Telefonim (pp) network, usually in Pidgin (AW)
5153 SLHFB [S] 2358 CW Single letter [S] HF beacon. Arkhangelsk. (DW)
5154 SLHFB [C] 0000 CW Single letter [C] HF beacon - Moscow. (DW)
5175 UNID: 1731 CW Few opr bursts then nil further hrd.. (DW)
5258 Unid 1830 USB unid arabic net (ANEE)
5272 UNID: 1335 CW High speed (35-37 wpm). 5FG's, wkg someone & off w/"ok ar". (DW)
5322 UNID: [FLYQ] 2248 CW Slow hand, 5LG's. (DW)
5418 UNID: [PNKU] 1839 CW Calls "KLGQ de PNKU k". (DW)
5454 Unid SS net 1303-1312 USB Some kind of mining or transport net. Stns included "Yucatan" "Cordoba" "Etapa" & "China". First two are Mexican place names & propagation would indicate these in Mexico. (DHM)
5480 Moroccan Police USB (ANEE)
5614 UNID: 0014 CW Slow hand keying. 5lg's w/accentuated letters. "qrr3" "rpt k" "zloq de saj1"(?). (DW)
5629 Unid 2316 USB YL clg out Kilo, Papa, Alpha, Two, KPA2, KPA2 etc. for about 5min, then disappeared. (MZ) [Mossad -LOGS]
5647.5 UNID: [4XML] 0023 CW Calls "v BFR7 de 4XML". Continuously. (DW)
5701.4 UNID: 2013 CW Too weak to determine if standard morse, bad keying or other type of coding. (DW)
5762 Spanish Numbers 0602 AM (SS/5F/w) "Attencion, 68580" until 0603, then into 5F. Note: Right on top of DXing with Cumbre on WHRI (5760). (MF)
5892 Christian Radio Missionary Fellowship, Goroka PNG 0900 USB lots of outposts in local language, occasionally the base comes in EE. (AW)
6640 Unid 1645 LSB Italian, many stations w/talk of Croatia (ANEE)
6849 New Tribes Mission Goroka PNG 0840 USB Base wkg several outposts,this mission is staffed by American volunteers. (AW)
7580 Unid Spanish Numbers 1509 AM (SS/5F/w) Clg. 0540 Followed by 5F @ 1510. Done by 1520. (MF)
7600 Unid SS tfc 0315 USB w/mention of Colima, a Mexican state. (DHM)
7795 Mexican Business Net 0212-0219 USB SS business comms, talk of personnel matters, bank transactions. One of the two parties was in Tepatitlan, which I located a little east of Guadalajara. (DHM).
7804 Moroccan Gendarmes 0830 USB (ANEE)
8025 Mossad: 1645 USB Mossad #s (ANEE) [probably Mossad CIO2 - LOGS]
8095 Unid: Tripoli-Denmark shipping line 0845 USB (ANEE)
8125 WHX45: FAA, Burlington, Ma 1731 USB Clg KEM-80, FAA HQ, Washington DC, no joy. (RB)
8142 Mossad #s 0700 USB all in Hebrew (ANEE)
8900 Unid: 1815 USB unid clg Dakar, not aero (ANEE)
8971 "The Ticker" 0045 USB w/occasional noise bursts between ticks.(MF)
9052 Unid Moroccan phone 0915 LSB (ANEE)
9101 Unid 0815 USb Poss. Spanish? (ANEE)

9141.5 Unid 0800 USB Galician (ANEE)
9183.8 Unid 0800 USB poss Arabic (ANEE)
9251 Unid 1800 USB english #s (ANEE) [probably "Lincolnshire Poacher" -LOGS]
10000 Unid 2127 CW on 10mhz WWV freq, copying a cw station sending "CLS". Also hearing SS on this freq. (RR)
10085 Unid 0850 USB Philippines tfc list, talking about parts he wants. (AW)
10154 Unid: 0830 USB Morocco (ANEE)
10154.4 Unid: 1130 USB unid language sounds like aeronautical pp tfc. (ANEE)
10287 Unid: 1130 USB Russian (ANEE)
10355 Unid: 1630-1640 USB Chinese numbers station, also phonets. (ANEE)
10367 Unid: 0908 USB pp, sounded one of the islands, Fiji? (AW)
10426 Unid: 1430 USB EE numbers. (ANEE) [probably "Lincolnshire Poacher" -LOGS]
10450 Unid 0845 USB Spanish (ANEE)
10526 Unid: 0912 USB Philippines stn, long list. (AW)
11075 Unid: 1813 USB w/dpx phone calls in FF (RM)
11170 Unknown station 1230 USB transmitting 'Mary, Susan, ?' (third phonetic unreadable). At 12232z it changed to 'Queen, Robert, ?', at 1235 ir changed to 'Mary, Susan, ?', at 1237 it changed to 'Queen, Robert,?'. Transmission ended at 1241. In all cases, the last letter was completely unreadable, or did not seem to be any letter from the alphabet. (GT)
11545 Lincolnshire Poacher 1602 USB (EE/5F/w) Alt. tune on even mins & "53916" on odd mins. Tones @ 1610, then into 5F, ea. code 2x until tones @ 1645, rpt. tune. First logging! (MF)
11659 Remington Numbers 1511 AM (EE/5F/w) //13687.5. Repeat @ 1522. Count 129. Last noted 18 Nov 95. End @ 1534. (MF)
13437.8 Unid 1551 CW tuned in at end of msg and read: RT ET4 INFO RQ 1/T ET CCC CCC CCCGB7388SK SK GB SK GB SK GB SK GB SK GBSK GBSK. (RM)
13516 Unid: 1423 CW w/5FG auto sent at fast speed (RM)
13687.5 Remington Numbers 1513 AM (EE/5F/w) //11659.0. Repeat @ 1522. Count 129. Last noted 18 Nov 95. End @ 1534. (MF)
13850 Mossad: 1600 USB Mossad numbers, heavy QRM (ANEE)
14380 PLO HQ Tunis, TUN 0900 USB wkg various embassies financial msgs. (ANEE)
14390 PLO HQ Tunis, TUN 0930 USB wkg various embassies, also at 1000. (ANEE)
14623 Unid: 1015 USB Morocco (ANEE)
14656 Unid: 1500 USB Russian fem op (ANEE)
14686 ATLAS: 1711 USB wkg FLINT 6 (GG) Flint 570 1903 USB clg Atlas for a radio check,no joy, (Flint is a DEA a/c callsign & Atlas is the El Paso C3 Center). (MF2)
15682 Unid: 1030 USB EE numbers station 1030-1300 w/new schedule (ANEE) [probably MI6, Lincolnshire Poacher -LOGS]
16185 CLP22: Cuban Emb., Hanoi, VTN 1821 CW msgs in SS. (RM)
16216 Unid: 1115 USB poss FF UNHCR? Goma, Zaire, very strong. (ANEE) [PTT, Oostende Radio, BEL listed here, no other logs -LOGS]
16224.2 Unid: 1423 CW RUS diplo sta. w "etintej_kageets (rptd 4X) etintejx etintejxmkageetsmkageets" all rptd until 1427. (RM) [Russian SOUD/ Brotherhood station -LOGS]
17410 Unid 1130 USB EE #s stn (ANEE) [probably a MOSSAD stations - LOGS]
18780 Unid: 1130 USB Catalan (ANEE)
18806 Unid: 0655 USB pp in a slavic language, Czeh or Polish? Never heard anything on this frequency before. (AW)

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Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station

EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ Vol. 2, No.03 March 1996 ////
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WUN-v02
MEMBERSHIP NEWS
Mike Wolfson, Membership Director
mwolfson@bright.net

Welcome to the March issue of the WUN Membership News. Its getting a little monotonous, but I have to report again that our membership continues to grow. I know that all this good news is hard to take; we'll just have to get used to it.

When I checked the subscription statistics at the beginning of the month we had 599 people subscribed to the main WUN list, 52 subscribed to the WUN-DIGEST list and 192 signed up for WUNNEWS. Tim Braun is still down with computer problems, so I don't have up to date figures on the number of paper members, but it's in the area of 36. We have 45 members on various BBS's in 4 other countries. That gives us in the area of 925 members!

The WUN membership also was from more countries last month than we've seen in a couple of months. Between the 3 lists, 28 countries were represented. As far as I know, Iceland and Poland had members subscribing for the first time. Welcome.

To help keep track of the countries where we have members, I've created a master database of countries represented on the various lists. Once a country is on the list it will stay there. The countries in the database are: Australia, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Great Britain, Greece, Iceland, Ireland, Israel, Italy, Japan, Luxembourg, Malaysia, Mexico, Netherlands, New Zealand, Norway, Peru, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, Taiwan, Tunisia, United Kingdom and the United States.

I would like to again thank those of you who have taken the time to respond to the membership survey request.

For anyone who has not sent me their information, but wants to here is how to do it. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested.

Here is the survey:
E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

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With SELCAL WATCH by Vic Gubbins

Welcome back to another edition of International Civil Aero. We start this edition with a look at what ground stations the civil aero DXer can find on that hot African frequency of 8903. We move to Vic's SELCAL WATCH for March, wherein I certainly echo his sentiments regarding contributions, which this month were limited to the ever-faithful Wim de Mol, Steve McDonald, and Hans Wildschut. Please note that International Civil Aero brings you a SELCAL EXCLUSIVE this month with the WORLD PRINT PREMIERE of the first of the NEW Iberia A340 selcals!!! Then, we'll all bring you the latest in AIRLINE NEWS...

EDITORS NOTE: Without your continuing support, this column remains limited to what the three of us can dig up and present to you. Come on, we know there are many lurkers out there hiding in cyberspace reading these lines. What you think may be run-of-the-mill is another DXers prize piece of information. Any comments, suggestions? Anything at all? Won't you consider

contributing your information for next months column today?

8903 -A Hotbed of African Civil Aero DX Activity
For the adventurous civil aero DXer, there are probably a few favorite haunts that come to mind. Perhaps it is monitoring South East Asian traffic on 8942, or keeping tabs on flights within the South Pacific on 8867. But for my money, there's nothing like the exciting variety of ground stations and traffic to be found on 8903, home to an exotic selection of ground stations across the Central part of the African continent. And the best thing about 8903 is that you never know what propagation will bring you on any given day. One day you can hear Luanda Radio ANGOLA like it was transmitting from next door, the next it will be unreadable with another station taking it's place. You may hear a station like Maiduguri only once, never to be heard from again. There are also some other little problems to deal with, such as the preponderance of French to be heard from stations such as Brazzaville CONGO, Kinshasa ZAIRE, N'Djamena CHAD, Niamey NIGER, and Libreville GABON, or Portuguese in use with Luanda Radio... But with a little practice and a dictionary by your side, you too can easily begin to decipher these transmissions after a few sessions. Another difficulty is the condition of some of the ground station's transmitting and receiving equipment. Some of the transmitters on 8903 date back to the European colonial era, and are kept afloat by a series of quick fixes with tight budget constraints, and this often makes for very poor quality trans-
missions from some of the ground stations, and for very difficult readability for the aircraft flying overhead! It is standard practice for flights to maintain constant guard on the VHF air-to-air frequency in order to compliment air traffic control from the HF ground stations.

Here is a list of all monitored ground stations monitored since November, 1993 in Reston:
Accra Radio GHANA
Bangui Radio REPUBLIQUE CENTRAFRICAINE
Brazzaville Radio CONGO (sometimes IDs as "Brazza")
Douala Radio CAMEROUN
Garoua Radio CAMEROUN
Gbadolite Radio ZAIRE (sometimes IDs as "Gbado")
Goma Radio ZAIRE
Johannesburg Radio SOUTH AFRICA (heard only once in early 1995 testing)
Kano Radio NIGERIA
Kinshasa Radio ZAIRE (sometimes IDs as "Kin")
Kisangani Radio ZAIRE
Lagos Radio NIGERIA
Libreville Radio GABON
Luanda Radio ANGOLA
Lubumbashi Radio ZAIRE (sometimes IDs as "Lubum")
Maiduguri Radio NIGERIA
N'Djamena Radio CHAD
Niamey Radio NIGER

We would certainly welcome any recent loggings as additions to this list. So, by all means, fire up the radio, sit back, and enjoy what may be the most thrilling frequency for civil aero DX. Good luck!

SELCAL WATCH -by Vic Gubbins
Hello again WUNners - before I start this month's section for real I'd just like to complain about the lack of information that's being sent to me regarding new selcals etc. I agreed to do this section so as to help my buddy Tony out with the workload and also to get feedback and new selcals for my own collection which so far hasn't happened. This is annoying me to the extent that I am debating whether to keep this part of Civil Aero going. So, if you would like this section to continue then I ask you to send in ANY selcal changes to me so I at least feel of some use to someone!

Tie-ups for February (requested by J.P. Sarti, Wim de Mol, Fenton Cheddary)

BF-MP	USA	B767	N654US	
CQ-MP	AAL	B757	N602AN	
CM-BD	WOA	DC10	N117WA	
CS-HP	AEL	B767	EI-CJA	JS-HP INCORRECT

DH-BC	LDI	B767	OE-LAT	
DJ-AL	TWA	B767	N604TW	
FM-CG	TEJ	A300	XA-SYG	
FM-KS	JEX	A320	N303ML	
GS-JQ	AIC	A310	C-GCIL	(CLI a/c)
HJ-AB	XXX	DC10	OO-JOT	CHALLENGE AIR
HR-KQ	FUA	B737	EC-EXY	
HS-FM	TAP	A340	CS-TOB	(from monitoring 3/20/96)
HS-FP	TAP	A340	CS-TOD	
JM-BE	AMT	B727	N762AT	
QR-BH	XXX	DA90	A7-AAE	QATAR GOVT.

New selcals (A big thanks to Fenton Cheddary, Sir Thompsons Gazelle, T.M. Himself, DH, Big Mags, T.King, Allan Mckenzie and Me) NB - This section was meant to contain new biz-jet selcals but I didn't receive any so there is none this month!

AB-CH	AIC	L101	V2-LEJ	
AD-EG	ITF	A300	F-BVGD	
AK-EL	RCN	B707	5N-EEO	
AR-CH	SMP	FK10	PK-JGH	
BD-GH	???	B737	RPC1938	
BE-CF	NWT	L382	C-GHPW	
BJ-AM	EWW	DC8	N8091U	
CD-BF	ITF	A300	F-BVGE	
CH-LM	LIB	DC10	N345HC	
CJ-ER	BER	B737	D-ABAE	
CK-EM	SAA	B747	ZS-SAC	
DE-AB	TWE	MD80	SE-DRU	
DJ-RS	IBE	A340	EC-154	(note: now operating IB6250 JFK-MAD)
EG-BL	OMG	B707	EL-AKJ	
EJ-DG	RJA	B707	JY-AJO	
EL-AB	RJA	B707	JY-AJN	
EQ-HS	RAM	B737	CN-RNC	
EQ-JK	RAM	B737	CN-RND	
FG-MR	FDX	A300	N664FE	
FJ-MR	KAC	B747	9K-ADE	
FQ-JR	MSR	A340	A40-LE	
FM-JR	JEX	A320	N300ML	
FM-JS	JEX	A320	N301ML	
FM-KR	JEX	A320	N302ML	
JK-GH	MON	DC10	G-DMCA	
JR-GP	TYR	CL65	OE-LCG	
GR-LM	LTU	A330	D-AERF	
GR-LQ	LTU	A330	D-AERH	
LQ-AG	UGA	B737	5X-USM	UGANDA AIRLINES
LR-EG	EWW	DC8	N8974U	RE-SELCAL (N308GB INCORRECT)
LR-JP	AZA	B767	G-OITF	
LS-CR	AEA	B737	EC-FJZ	

And that's all! ANY NEWS to me c/o the address above and stop making me do all the work! Until next month, happy hunting!

5670 UPDATE AND OTHER HOT DX NEWS

In two recent loggings posted to the WUN list, DXers Hans Wildschut and Steve McDonald have both reported hearing Medan Radio INDONESIA operating on 5670. Medan had not been previously reported operating here, Hans logged them at 2105 with alternate frequency of 3470 mentioned from his listening post in Zutphen, The Netherlands. Steve logged them from his DX retreat in British Columbia at 1600 UTC. A so far UNID LDOC has been noted here in Reston on 6646 transmitting in Quebecois-accented French. I have not been able to spend much time lately monitoring this frequency so if anyone can step forward with information please do let us know. Miami Radio LDOC on 8095 and especially 6637 has been very hot as of late, with a juicy selection of cargo and charter operators logged during the past months. Some of the airlines heard are Fast Air Cargo, Fine Air Cargo, Transcolombia, Amerijet, Miami Air, and Challenge Air Cargo to name but a few. To log those DC8F and 707Fs, try this channel soon! Finally, Sanaa and Mogadishu Radios have been heard in the 2300-0100 UTC time slot on 7595.

AIRLINE NEWS
According to a recent QSL received from EXCALIBUR AIRLINES, they will be disposing of their A320s very shortly and replacing them with DC10-30 equipment to undertake Transatlantic charters to Orlando, Los Angeles, and San Francisco.
MONARCH has also added a DC10-30 to its fleet for Transatlantic charters, reported to be ex-Zambia Airlines registered G-DMCA msn 48266. AIR LIBERTE of France is still operating scheduled A300 service from Paris-Orly to Montreal-Mirabel on Fridays and Saturdays:
VD990 ORY-YMX dep 1325 arr 1415 on Fridays
VD990 ORY-YMX dep 1425 arr 1515 on Saturdays
VD991 YMX-ORY dep 1615 arr 0615+1 on Fridays
VD991 YMX-ORY dep 1645 arr 0645+1 on Saturdays
And a special A310 flight on 31 March: VD980 YMX-ORY dep 2005 arr 1005+1.
Speaking of DC10-30's, IBERIA has begun replacing it's ageing fleet of 10's with Airbus A340's, the first of which has begun operating the Madrid-New York JFK flights, IB6251 and 6250. From monitoring in Reston on March 21, I can confirm this new service. Look for more and more DC10-30's to be retired by the end of this year...Here's the schedule for those new SWISSAIR A310 EWR-ZRH flights: SR104 ZRH-EWR dep 1925 arr 2120 daily effective 31 March, and SR105 EWR-ZRH dep 2250 arr 1340+1 effective 30 March. AIRLANKA should have begun Colombo-Johannesburg A340 service by the time you read this. UL702 operates on Tuesdays and Fridays nonstop departing JNB 0940 and arriving Colombo 2225 on Tuesdays, effective 2 April, and dep JNB 1825 arr CMB 0710+1 on Fridays, effective 5 April. UL701 operates via Durban Tuesdays/Fridays departing Colombo at 0100 arriving Durban's Louis Botha Airport at 0555 on Tuesdays, and on Fridays the flight departs CMB at 0945 arriving Durban 1440, with continuing service to JNB.

And finally, one civil airliner which still attracts attention wherever it flies is the Concorde! This month, we'll detail for you, the WUN civil aero enthusiast, the latest AIR FRANCE and BRITISH AIRWAYS SSC schedules effective 31 March:
AIR FRANCE
AF001 JFK-CDG dep 0800 arr 1845 daily
AF002 CDG-JFK dep 1100 arr 0745 daily
BRITISH AIRWAYS
BA001 LHR-JFK dep 1030 arr 0820 daily
BA002 JFK-LHR dep 0745 arr 1725 daily
BA003 LHR-JFK dep 1900 arr 1650 x56
BA004 JFK-LHR dep 1245 arr 2225 x56
BA273 LHR-BGI dep 0930 arr 0845 47
BA272 BGI-LHR dep 1230 arr 2145 47

That wraps it up for yet another edition of International Civil Aero. Please take note of Peter's new address, and let's have those contributions fill our e-mail boxes and letter boxes to the brim for next month! From all of us at the International Civil Aero team, 73 and good DX!

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ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor
****

This section is here to deal with requests for help and information to and from WUN members. This column is for you to ask questions; to locate others with similar interests (even non-HF like SatCom or VHF aero); to locate or sell equipment; to ask about receiver problems, or to just ask about anything. If you have a question to ask then ask it via this section. Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.

IF YOU WANT TO REPLY TO AN ITEM NOTE THE SENDERS ADDRESS AND REPLY DIRECT OR BETTER STILL SEND THE ANSWER TO THIS COLUMN.

****

1. FOLLOW UP TO PREVIOUS NEWSLETTERS
****

FROM: Jacques Pagnoux <pagn1096@EuroBretagne.FR>
Subject: Inmarsat

Dear Colin,
The latest issue of the WUN newsletter mentions your queries as well as Alfie's for building an Inmarsat receive system. I have some info about this, as I intended to build one last year. Only personal commitments prevented me from doing so, but you can build a complete system if you get the proper parts from the USA, which would be the easiest solution. (but you could do everything by yourself if you preferred, the only tricky part is the 1500Mhz preamp) One person to contact is John Lee Wilson, 6413 Bull Hill Road, Prince George, Va, 23875(tel:804-862-1262). He is an Inmarsat specialist and a very nice person, he also sells everything you need to build a receive system, from A to Z.
He wrote two excellent articles on the subject in Monitoring Times (in 1994 I think, you can check at grove.net), and he sent me copies of these articles with plans, diagrams, photos and specifications. The price of the system is around $300. I hope this will help you. By the way, I'm looking for a good list of military selcals, British and others, if you know of any.

Thank you Jacques for this very interesting reply. Can someone supply the SELCAL list to Jacques?
++++++++++++++++

FROM: "rsfbmja@mail.opm.gov" <MIKE AGNER>
In Guy's unid text broadcast in the 2/96 WUN, there are several clues here:
a. The pattern of the letter groups tends to suggest that this might be a Slavic type language. Perhaps Czech or Russian? Definitely not Polish as the pattern of words is not readable (Polish has a definite read to it)
b. Evidently this is a simplex circuit of some kind, as the signal drops out and someone replies 'OK' on the same frequency.
c. The settings and mode on his terminal unit are correct; notice the many uses of 'ok' as well as the abbreviations 'gb' (='good bye'?), 'ok' and 73/88 at the end of the text.
While the frequency doesn't strike me as familiar, perhaps this is an Eastern European broadcast. It wouldn't surprise me to think this might even be Hungarian, but that is just a wild guess. Definitely not encrypted- at least not the way we think of it.

Thanks Mike, any other comments from readers? (Ed)
+++++++++++++++++

FROM: pcrabill@visuallink.com (Perry Crabill).
Winchester, VA USA Thursday, March 7, 1996 0345 EST (?)

Jeff William's problem as outlined in the February WUN Newsletter is very likely not in his electric meter; it is probably external to his house, and is being conducted up to the meter over the power line.
The meter has both series and shunt coils as part of the power measuring arrangement and the series coil can be expected to act as an rf choke and somewhat reduce the amount of noise detected at the house wiring outlets. I doubt that shielding the meter would mitigate his problem in any way.
It would be helpful to know more about the frequency range covered by the noise and a more detailed description of its nature; also, whether it varies with time of day, etc. Many household electronics devices now depend on semiconductor circuitry for their operation and radiate interference over a wide range of frequencies. Some examples are plug-in automatic night lights controlled by an electric eye, floor or table lamps with touch controls, wall switch dimmers for lighting and timers for controlling exterior lighting.
A surprising source of interference may be radiated from certain TVs and VCRs and other equipment while they are TURNED OFF! This occurs in units that include remote control features, where the power supply has to remain on to enable the remote control circuitry. The switching power supply used has

an operating frequency in the range of 30 to 40 kHz and generates buzzy harmonic signals through the LF and broadcast bands well up into the short wave spectrum.

I investigated such interference in my own house several years ago. My articles about it were published in THE LOWDOWN by the Long Wave Club of America, in DX NEWS by the National Radio Club and in QST by ARRL. I will be happy to mail Jeff a copy if he sends his address via e-mail to prabill@visuallink.com.

If Jeff has not already done so, he should verify that none of the interference originates in his house. He should observe the noise at the meter while someone pulls the main fuse or breaker. If there is little or no change, the source is definitely external.

If it appears to be inside, each branch circuit fuse or breaker should be pulled to isolate the source. Each appliance or device should unplugged, one at a time, to identify the culprit.

Jeff may wish to obtain a copy of the Interference Handbook, by William R. Nelson, a former RFI investigator for the Southern California Edison Company, published by Radio Publications, Inc. I once loaned my copy to the local electric utility, and they kept it for six months.

Thanks Perry for this valuable advice. We can all use this information at some time in our hobby. (Ed).

2. TOP 10 FREQUENCIES
****

Following the request last month from Steve Kursterer for a selection of favorite frequencies here are some top frequencies sent to the list:-

++++++++++++++++++

FROM: Bart.Hoekstra@hcc-lwd.idn.nl

I think this is a very good idea! So a public answer. I listen to AERO comms mostly (QTH is Leeuwarden, The Netherlands). Most of these freqs should be active in the US:

AERO CIVIL	AERO MIL
3016	11175
5550	6739
5598	8992
8846	8968
8906	11244
11396	15016
	13200

The Mil freqs are all GHFS (Global High Frequency System), the USAF HF communication net. The Civil ones are for New York ATC, traffic control over the Atlantic Ocean.

++++++++++++++++++++++

FROM: "Craig J. MacKinnon" <aa453@ccn.cs.dal.ca>

These are my contribution to a "favorite frequency list". Hope these are helpful...

2182 - Maritime HF calling and distress
2749 - Halifax Coast Guard Radio
5680 - U.K. and European SAR Ops
5696 - U.S. Coast Guard (air-ground)
6683 - Andrews AFB VIP Comms
6694 - Halifax Military
8983 - U.S. Coast Guard (air-ground)
8989 - Trenton Military
9006 - Trenton Military
11175 - U.S. Air Force GHFS
11232 - Trenton Military

(There's actually 11 in that list - Ed)

++++++++++++++++++

FROM: anthony.orr@wdn.com

In response to the request for details regarding my list of ten favorite frequencies to monitor, here are ten of my fave raves with details.

1. 8903 AFI-4 MWARA (Civil Aero)
2. 5598 NAT-A MWARA (Civil Aero)
3. 5649 NAT-C MWARA (Civil Aero)
4. 6535 SAT-1 MWARA (Civil Aero)
5. 5574 CEP-1/2 MWARA (Civil Aero)
6. 6637 US-LDOC (Civil Aero)
7. 8879 NAT-C and INO-1 MWARAS (Civil Aero)
8. 11175 US-USAF GHFS (Military Aero)
9. 6649 SAM-NW MWARA (Civil Aero)
10. 5658 AFI-3 and MID-2 MWARA (Civil Aero)

And why not include 11-20?

11. 5541 EUR-LDOC (Civil Aero)
12. 5532 EUR and AFI-LDOC (Civil Aero)
13. 5535 EUR and SAM-LDOC (Civil Aero)
14. 8894 AFI-2 MWARA (Civil Aero)
15. 5634 INO-1 MWARA (Civil Aero)
16. 5643 SP-6/7 MWARA (Civil Aero)
17. 8867 SP-6/7 MWARA (Civil Aero)
18. 5628 NP-3/4 MWARA (Civil Aero)
19. 8942 SEA-2 MWARA (Civil Aero)
20. 8855 SAM-C, NE, SE MWARA (Civil Aero)

For those of you with World Wide Web access, check the WUN Home Page for my list of ICAO MWARA frequencies at URL http://cellini/leonardo.net:80/berri/wun or check out WUN member Hans Wildschut's excellent Web Page with a very detailed list of MWARA frequencies, including many regional or RDARA freq families at http://web.inter.nl.net/hcc/hans.wildschut/

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To round off this feature for this month, here are my own top frequencies; these are WX Fax and RTTY Meteo. (Ed).

	WX FAX					
1.	Bracknell	2618.5	4610	8040	14436	
2.	Offenbach	117.4	134.2			
3.	Hamburg	3855	7880	13882.5		
4.	RN London	2374	3652	4307	6452.5	8331.5
5.	USN Rota	4623	5864.5	9373	11485	
6.	Madrid	3650	6918.5	10250		
7.	Rome	4777.5	8146.6	13597.4		
8.	Croughton	4757	7625			

	RTTY METEO			
1.	Bracknell	4489	6835	10551.3
2.	Rome	3172.5	5887.5	11453
3.	Sofia	4813	11063	
4.	Hamburg	4583	7646	11638

3. FOR SALE
****

FROM: Harold Woering
Harold writes to say he has PopComms mags from 1985 to 1995 for sale. The only cost is for shipping. Harold is prepared to send them UPS COD from the east coast of the U.S.
First come first served. Send your request to: hwoering@springboard.com

FROM: James Kilgallen 73024.205@compuserve.com
I would like it if you'd pass on the following items for sale: MFJ-959B preamp antenna tuner US$40, Ameco PT-3 preamp antenna tuner US$45, Optoelectronics Scout 40 US$400, Optolelectronics CX12 computer interface US$30. All items OBO with manuals and in excellent condition. My address is

James Kilgallen, PSC #818, Box 755, FPO AE 09644-1000. First money order on its way confirmed by e-mail wins each item.

4. HELP WANTED
****

FROM: David Feustel (feustel@netcom.com)
Subject: HOKA Software

I'm a brand new short wave listener eager to get into HF/VHF/UHF multimode utility station monitoring.

I'm looking for opinions on HOKA Code 3 multimode decoder hardware/ software and also on the relative merits of the ICOM 7100-12 vs the AOR AR5000 VHF/UHF receivers. Do you have any information and/or opinions about these products or others that I may not be aware of?

I'm also wondering how much of the traffic being reported on the WUN mailing list I should expect to be able to copy from my location with my equipment. I live in Fort Wayne, Indiana (central United States). I'm using an NRC 535Db with (for the moment) an indoor long wire antenna.

Dave Feustel N9MYI, Fort Wayne, IN, 219-483-1857

Well I for one use HOKA Code 3 and have found it to be brilliant. I use it with my AOR 3000A and a TANDON 286. I can recommend it without reservation. Anyone out there with other views? As to David's other question, you may want to check the contributors location for posts over WUN and in the Newsletter at the end of the logs area for those in the approximate area. These logs you can be pretty sure of. (Ed).

++

FROM: Matt Hassock <101534.226@compuserve.com>

I'm trying to monitor frequencies, for instance 4742 and 6739, unattended by recording to hard disk using a WAV editor. I set up the recording at a low bit rate and can record a few hours while at work or asleep and can later sort out the chat from the noise on-screen.

Its been fairly successful up to now, but I recently upgraded to a 32 bit Ensoniq card and a bigger HD. The software that comes with it, Voyetra WinDAT, has a bug that causes it to crash after 99min59s, so its pretty useless.

Do you, or anyWUN know if there's some S/W out there that will run 32 bit Sound Blaster compatibles for at least 10 Hours?

Voyetra helpfully suggested that I buy their new $100 wave editor as they weren't going to fix the old one. Matt

Well readers, can we help? (Ed)

++

FROM: Takashi Kuroda <tkuroda@ppp.bekkoame.or.jp>
Re: Racal RA3791 DSP receiver

Does anybody use the RACAL RA3791 DSP receiver? What is the performance? Appreciate any information on this receiver.

Regards,

Name	:	Takashi Kuroda
Location	:	Tokyo, Japan
Tel & Fax	:	+81-3-3880-6561
E-mail	:	tkuroda@ppp.bekkoame.or.jp
Niftyvan ID	:	GHB00224

Again readers, can we assist here? (Ed)

++++++++++++++

FROM: Stuart McMurtrie <smcmurtrie@uk.b-r.com>

When on vacation in Portugal I visited Cape St Vincent (It's the most south western point of Portugal, on the Atlantic coast). Right on the cliffs I noticed a large HF antenna & close by a building with lots of HF noises coming from it.

Has anyone any idea what this? Stuart.

Someone in Portugal to go and have a look perhaps? (Ed)

++++++++++++++

From: Klaus Betke <KLAUS@aku.physik.uni-oldenburg.de>
Subject: [WUN] Time signals on 25 kHz

Longwave surfers probably know the time signal stations on 25 kHz located in Russia and other CIS states. In 1991 I got a booklet from the "National Scientific and Research Institute for Physical, Technical and Radiotechnical Measurements - VNIIFTRI" of the former USSR. This booklet lists the following stations (which can also be found in some other publications):

UNW3 Molodecno, BLR
UPD8 Arkhangelsk, RUS
UQC3 Khabarovsk, RUS
USB2 Frunze, KGZ
UTR3 Gorki, RUS

However, these calls are no longer valid, schedules have changed several times in recent years, and there are different schedules for summer and winter. Each station transmits two to three times a day. The general program scheme is as follows (there are minor differences between the individual stations):

Time	Frequency	Transmission
xx06-xx07	25.0 kHz	morse id
xx07-xx10	25.0 kHz	unmodulated carrier
xx10-xx13	25.0 kHz	40 Hz pulses
xx13-xx22	25.0 kHz	10 Hz, 1 Hz, 1/10 Hz, 1/60 Hz pulses
xx22-xx25	25.0 kHz	40 Hz pulses
xx27-xx30	25.1 kHz	unmodulated carrier
xx32-xx35	25.5 kHz	unmodulated carrier
xx38-xx41	23.0 kHz	unmodulated carrier
xx44-xx47	20.5 kHz	unmodulated carrier

In January and February 1996 I observed this schedule:

Call	Transmission starts at
RJH63	0906, 1706
RJH66	0406, 1606
RJH69	0706, 1306
RJH77	1106, 2106
RJH99	0506, 1906

Three questions are on my mind. 1. Who knows the locations for the above call signs? Signal strength and DF indicates that RJH63 is Molodecno and RJH77 is Arkhangelsk; RJH66 seems to be a new station. 2. Who can correct or complete the above schedule? 3. What are these signals good for? They are not very useful as a general purpose time and frequency standard, due to their bizarre schedule. Any information will be highly appreciated! 73, Klaus

++++++++++++++

FROM: David Wells <david@excess.demon.co.uk>
Subject: SONY SW100

Colin Good Evening, (well it was when I received this - Ed)

I hope this is coming to the correct WUN Column Editor. (Yes it is)

I have a Sony SW100 World Band Radio. It is an excellent piece of kit, I use it worldwide on my business trips and holiday breaks to monitor the H.F. Bands.

It is just out of warranty and I have a problem with it. Started as intermittent but now totally U/S. Initially stopped working (no audio and loss of freq display) when top hinged lid or cover was moved towards the closed position. Suspect problem with the Ribbon Cable connecting lid/cover to main unit. I am hoping Sony will accommodate a "Goodwill" repair/ replacement. Has anyone out in WUN LAND got one of these radio's and suffered a like problem ? What was the cause/fix ? Many Thanks and Best

Regards. DAVID WELLS, Crowborough East Sussex U.K.

Anybody got a similar radio? If so any probs yet? (Ed)
++++++++++++++++

FROM: Jacques Pagnoux (pagn1096@EuroBretagne.FR)
Dear Colin,
I have a question for any WUN member; I would like to know about ANDVT. There are numerous references to this in the list and I assume it is some form of encryption. What I would like to know is: what is it really, the methods used and the type of aircraft or units that use the system.
Thanks and Au revoir, Jacques. West of France.

Anyone care to reveal all? (Ed)

And with that it brings us to the end of another program, let's have your comments/questions and hopefully someone will provide all the answers.....

Till next time,
Colin.

==========

DIGITAL REVIEW
[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Because of the enthusiastic reactions with regards to the 'DIPLO CORNER', I decided to do a diplo special about Bulgaria and Roumania this month. I am grateful to all members who sent material but wanna remain anonymous and my special thanks goes to Day Watson for his excellent reports and Roberto Robba for his many logs and sample messages.
Both Bulgaria and Roumania run extensive networks of diplo stations on numerous frequencies and both countries are fairly easy to catch. This makes them also interesting for the less experienced digital monitor.
Next month I'd like to focus on the Far Eastern countries and Australia. I sure can use loggings, skeds and sample messages from those countries. Dxers from that part of the world are invited to help me a bit with this.

Diplo corner

Norwegian update: MFA Oslo uses the NTA-transmitter site in Jeloy/Ski for its comms. A landline connects Oslo with Jeloy.

SOUD update:
o A new link has been copied on 14473.88 kHz, SOUD Moscow, link id 90039, txm mode Crowd36 at 12.07 UTC.

o Guy Denman heard on 10482 kHz at 08.45 UTC on link 80061 transmission to VNB. Digit '3' as last figure of last group in the header is being used all the time now.
He also copied at 09.10 UTC on 17474 kHz, link 10163. This one has not been reported for the past 6 months. This link was active in 1994/early '95 but had no fixed sked.

o Edgar White writes that he noticed an odd thing:
11144 00139 80697 20152 00809
ZJAXH IQXTN HOXCQ ORDIN QEGLE XGAUE RZJSY MJMAH THLDP RYKES
<clip clip clip>
EDJTH LDNSR WCGOY MUSKH SKCGG YMXNC ISBBJ QYRRQ IPOWW

11177 00139 26760 19150 00809
ZJAXH IQXTN HOXCQ ORDIN QEGLE XGAUE RZJSY MJMAH THLDP RYKES
<clip clip clip>
EDJTH LDNSR WCGOY MUSKH SKCGG YMXNC ISBBJ WGQLR IPOWW

''Message 19150 was first sent to WNY on 19 Dec., then both appeared

together on 20 Dec. and message 20152 was re-sent on 21 Dec. Groups 1/77 of both messages are identical, which would seem to indicate that these contain the real cipher text, which would agree with the encoded count contained in group 79. I wonder then if both group 78 and pmbl group 3 are used to derive the cipher key ?''

It is possible Edgar. Except for the date and cypher group 3 nothing else changed, so I guess group 78 has either a connection with group 3, the date or both.

o Stan Scalsky noted a new sked for the txm to KAC: 2030-2100 UTC

Bulgarian diplo
==========

Internal Callsign	ITU/Emb. Callsign	Embassy/ Consulate	Internal Callsign	ITU/Emb. Callsign	Embassy/ Consulate
AGA	LZC4	Den Haag	BFV		Helsinki
BMA		Algiers	BOH		Tehran
BOK		Nicosia	CDH		El Djazair
CFO		Rabat	COD		Beirut
CUJ	CUJ494	Lisbon	CWB		London
DAZ		Beirut?	DGZ		Moscow
DKI	CME342	Havana	DMZ		Beirut
DOK		???	DOR	LZG1	MFA Sofia
DSR		Ankara	DTF		Stockholm
FGZ		Rabat	FIM	LZG7	Madrid
FNZ		Baghdad	FOW	ONN29	Bruxelles
GAT		Cairo	GDO		???
GIP		Luanda	GPR		???
GUB		Damascus	KIT		Kiev
KRZ		Vienna	KSA		Berlin
LZF		Rome	LZK		Dakar
LZH		Islamabad	LZO		Berne
LZS		Baghdad	MGU		Tunis
MIZ		Tripoli	NCO	ETR45	Addis Ababa
NCS		Moscow	OFC	Z2F16	Havana
OLG	LZS	Baghdad	ORB		Paris
PFR	LZF	Rome	PLB		???
PMO	LZC3 / KNY32	Washington DC	PRO		Bonn
PZO		Prague	SOB		Bucharest
SDV	LZO	Berne	VJZ		Geneva
ZFO		Caracas	ZLG		???
???	LZB6	Kabul	???	LZG3	Lagos
???	LZG4	Dar esSalaam	???	LZH	Islamabad
???	LZK	Dhaka	???	LZZ5	Berlin
???	LZU7	???			

Embassy callsigns have three possible formats for on-air use:
1) ITU callsign eg "CUJ494" for Lisbon
2) The internal callsign of 3 letters eg "AGA" for Den Haag
3) The legitimate embassy callsign eg LZB6 for Kabul

Logged frequencies:

4806	5195	5355	5433	5825	5864	6706	6792
7410	8068	8099.5	8162	10145	10154	10159	10240
11026	11064	11163	11164	11625	11684	12066	12072
12114	12124	12134	12138	12153	12161	12165	12178
12190	12190.3	12217	12223	12227	13413	13418	13438
13924	13938	14376	14377	14380	14387	14392	14397
14426	14433	14990	16015.7	16017.7	16025	16036	16040
16048	16105	16120	16336	16354	17421	17422	18035
18045	18520	19160	20040	20359			

Reported frequencies:

3862	3864	5029	5360	5832	5838	6784	7672
7734	8046	8072	8090	8093	8175	9063.3	9064
9067	9078.3	9108	9276	9368	10165.2	10174	10178
10234	10242	10244	10320	10348	10428	10574	10741
11007	11030.2	11052	11053	11054	11092.4	11168	11172
11424.5	11432	11494	11521	12119	12144	12151	12168
12170	12195	12205	12215	12233.2	12297	13375	13387
13416.3	13424	13425	13427	13456	13465	13505	13865
13929	13930	13933	13939	13994	14120	14362	14371
14374	14392	14407	14422	14424	14442	14532.3	14728
14735	14741	14840.4	14845.3	14888	14964	14980	14981
14987	15610	15660.3	16005.3	16008	16050	16064	16115
16185	16188	16190.4	16320.5	16354	16355	17413	17424.2
17429.1	17431	17534	18034	18036	18040	18042	18066
18247.2	18510	19115	19155	19360	19750	20044	20055
20085.5	20095	20320	20325	20352	20357	20393	20446
20459.5	20742	20888	20940	21826	21885	23030	

Operating notes

- Links are established in RTTY 75/R/500. Operator chats are also in RTTY. The network also uses an ASCII-based full-duplex ARQ (IRA-ARQ) system speeds 75-1200bd, 11bit per character. However 10 bit variants have been reported.
- Transmission modes used: ITA2 75bd/500 shift
  ITA2 150bd/500 shift
  Sitor-A 100bd
  CW
  F1B: 75/100/120/150/160/180/192/210.23/
  240/270.44/272.74/300/600/800/1200
  IRA-ARQ
- The callup procedure is as follows: 'sob sob sob ryryryryryryry' is the callup tape for the embassy in Bucharest. Most of the time the transmitting station will change the txm mode after the link has been established. A 'DOR' callup, 'dor dor dor ryryryryryryryry' is a collective call from MFA Sofia (DOR) to all stations.
- Addressing in the clear.
- Encrypted tfc in three fig groups, in five fig groups and five letter groups. Double line feed every five lines.
- On-line encrypted msgs start with long line of "ddddddd"
- Lots of Z-codes are being used, also some Q-codes noted.

- Dictionary of frequently used words:

Angli#ski	= English	Br%ksel	= Brussels
Bwlgariy	= Bulgaria	Bwlgarski	= Bulgarian
Niu #ork	= New York	Vaxington	= Washington
Viena	= Vienna	dumi	= number of words
Generalniy	= General	sekretar	= secretary
Godina	= year	informaciy	= information or press bulletin?
Republika	= Republic	vr38	= gr38 (38 groups)
za	= to	mart	= March

Sample messages:

Operator chats:

```
GAT    BK   GM   ZOK   ZNN  K
(to GAT: break goodmorning we are rcvng ok all clear for tfc K)
GAT    TKS  ZNN GB SK  @@@
(to GAT: thanks all clear for tfc goodbye  cu nxt sked signoff)
```

Msg headers:

za Br%ksel nr 430 dumi 1500 ekstrena	(to Brussels msg in p/l Bulgarian)
za Viena nr 50347 vr38	(to Vienna offline encrypted msg with 38 groups)
za informaciy nr 03762 dumi 1639	(thereafter followed a long (1639 words?) message in English similar press summary (informaciy?)

```
----------
Example #1 - Online encrypted traffic with header in clear
----------------------------------------------------------
 za tripoli nr  00257/56142 gr 101 ekstrena

 ddddddddddddddddddddddddddddddoxzo
 iwhbwajjhumicxio u
 xrmnvoygcevrtw%?-%22% uesvcyqrxll3@4%)-&'17 )3&67.
 s%(=02/5-2,9,&7#=-
 %:/(  ifbmgb,=,.6%75&/9+21,24264),719)2)ddddddddddddddddddddd

 ok tks znn zap   1    ok r tks zap   1 gb sk@@

----------
Example #2 - Sample of opr chat and encrypted tfc.
--------------------------------------------------
 aa ??
 om zoh nev nv
 et past zst
 et aa infoto
 ccccc
 za 4 posta:
 delhi, kiev, havana, harare
 nr 94194 gr 37

 70960 36748 86466 47858 08477 79957 74565 25303 09652 47323
 18796 17412 94595 62755 08223 53565 63155 62017 10431 23002
 28465 18022 61180 77491 70479 20578 50161 74366 82570 74760
 46744 32236 55048 37281 53934 58611 16434 ...ar

 fffff?
 pse sa for qrv ga aa???

----------
Example #3 - Sample of message in Bulgarian
-------------------------------------------
 za informaciy nr 05005 dumi 1928

 svetoven pregled

 i. balkanite

 specialniyt pratenik na rumwnskoto radio za otrazyvane na
 izborite v bivxa %goslavska republika makedoniy e vzel interv%
 ot zamestnik-ministwr na vwnxnite raboti /imeto ne se
 spomenava/. to# e zayvil, qe makedonskoto pravitelstvo ocenyva
 polojitelno rumwnskata politika na ednakva distanciy ot vsiqki
 dwrjavi ot bivxa sfr%, kakto i prinosa za mirno razrexenie na
 krizata v tova prostranstvo. po otnoxenie na dvustrannite
 otnoxeniy, zam.-ministwrwt e izrazil neudovletvorenostta na
 makedoniy, qe makar da sw&estvuvat neobhodimite usloviy za
 swtrudniqestvo vse o&e ne sa ustanovili diplomatiqeski
 otnoxeniy. sw&evremenno e deklariral, qe negovoto pravitelstvo
 oqakva sre&a na ravni&e ministri na vwnxnite raboti.

----------
Example #4 - Sample of a sked announcement by DOR
-------------------------------------------------
 ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryry

 ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryry

 dr om,s today dor vork fm zal 16021 sur 19360 et 12115 sur zal 12134

 dr om,s today dor vork fm zal 16021 sur 19360 et 12115 sur zal 12134
```

Roumania

Reported callsigns/selcals for parent MFA/Embassies:

CMR342		Havana
KNY25		Washington
ONN33		Brussels
TUR19		Abidjan
YPM	V5G	MFA Bucharest
YPM21		Stockholm
	P6R	Unid
	U5K	Unid
	P1K	Unid

Outstations referred to as P9 P11 etc

Logged frequencies:

8023	8025	8028	8084	9103	9104.2	9207	10444
10452	10480	10485	10493	10858	11173	11423	11493
12214	13494	13507	13587	14352	14354	14475	14520.7
14681	14683	14688	15833	16322	16331.7	16332	16334
16334.5	16354	16363	17464	18352	18360	18549.8	18552
18759.9	18762.1	19550.2	19850	19853			

Reported frequencies:

3841.1	4461	4853	4856	5147	5253	5824	6816
6820	6824	6827	6858	6950.1	7453.2	7458	7471.4
7818.3	7820	8027	8033.2	8080.5	8827	9105	9128
9987.2	10180	10357	10435	10357	10450	10463	10477
10483	10555	11416.5	11425	11429	11433	11437	12102.1
12107	12207	12210	12213	12227	13356	13446	13448
13460	13462	13477	13498	13500	13502	13506	13511
13548	13550	13855	14342	14344	14365	14414	14476
14533.5	14677.5	14679.5	14686	15835.6	16047	16050.1	16053
16055	16062	16252	16255	16316	16321	16327	16329.7
16336	16340	16342	16343.7	16345	16360	17452	17466
17477	17478	17481.9	17484	17532	17535	18195.1	18367.1
18425.7	18548	18558	19402	19495	19522	20330	20334
20340	20492	20502	22880.5	22885			

Notes on operation:

- o Transmission modes used: FEC/ROU 164.5 bd/400 shift
  FEC/ROU 218.3 bd/400 shift
  CW
  Also reported - Autospec with 1:50 interleave.
- o [SAT][SUN] Language: Roumanian, English.
- o On line encryption. Possible bit inversion. 14-15 sec to sync. Noted use of Code 32 in data.
- o Occasional chatter in CW
- o Press summary bulletins sourced on ROMPRES
- o Signatures: Milena Bucus Milescau, Valeriu Dinica and Vasile Sofineti
- o Broadcast at 1100z in FEC/ROU//164.5/R/400 - may be online encrypted - on 8028, 10493, 14681, 16332, 18549.8, 18552.1 & 18762 kHz
- o Broadcasts - Winter 1100z, summer 1000z
- o Five colons mark the begin/end/next page of a message (:::::)

o Dictionary of frequently used words:

ianuarie	= January
decembrie	= December
ministerul afacerilor externe	= MFA
presedintele romaniei	= Romanian President
primul ministru	= Prime Minister
radiograma	= radio(tele)gram

```
  circulara                       = circular message
  secretar general                = Secretary-General
```

Sample message formats:

Example #1 - End of message followed by a message in plain Roumanian
---

```
  doc.dan simionescun istoric literar.                (end of message)
        in prezent, academia romana are 157 de membri - titulari
  si corespondenti - si 15 membri de onoare din tara noastra.


                              valeriu dinica                (Signature)

  :::cc                                            (Message break - C =
                                                   operator? at message
                                                   break not page break)
  v5g v5g v5g msg nr 406 qfp 3 fr p all            (Originator Bucharest
                                                   message nr, to all)


  circulara nr.17/3302                             (Circular nr.)
  29 decembrie 1992                                (date)

                domnule sef de misiune,

        din presa zilei de 29 decembrie 1992, va semnalam:

       1. delegatia parlamentara din republica elena condusa de
  dl nicolaos grillakis, presedinte al partidului noua democra-
  tie, a fost primita la 28 decembrie de presedintele romaniei,
  dl ion iliescu.
        intilnirea, care a avut un caracter protocolar,  a insem-
  nat o trecere in revista a relatiilor bune existente intre
  cele doua tari, subliniindu-se si faptul ca, de-a lungul tim-
  pului, acestea nu au fost alteraten in ciuda pozitiilor poli-

  :::::                     a w a                  (page break - 2 - )

 tice, uneori diferite, dar dovedind aceeasi conceptie asupra
  realitatilor istorice.
        oaspetele a tinut sa transmita poporului roman cu ocazia
  sarbatorilor de iarna urari de fericire si prosperitate.

                                valeriu dinica    (signature)

   406                                             (message number)


 2222222222222222222222222hhhhhhhhhhhhhhh2222222222222222:::c
  nw hr qru                                        (sign off)

  op c 53 qsp qrx tmw gb 73/88 ar sk
```

Example #2A - Messages in plain Roumanian

```
  38 39 40 42 48 50 52 53 56 57 59 61 62 70 73 75 76 77 78  (Addressees)
  81 82 83 85 86 88 89 90 92 94 96 97 98 99 101 102


  ministerul afacerilor externe                    (Originator - MFA)
  nr. h-02/15132 din 29.12.1995/16,00              (Nr and origin DTG)
  radiograma - circulara                           (Circular message)
     domnule sef de misiune,
```

referitor la procedura de preschimbare de catre cetatenii
romani aflati temporar in straintatate a pasapoartelor simple
a caror valabilitate a expirat, va reamintim urmatoarele:
<clip clip clip>
.
:::::

Example #2B
---
eeeee:::::

ministerul afacerilor externe (originator is MFA)
nr. a-1/10116 din 22.12.1993 (nr and origin date)
radiogram# - new york (radiogram to NY)

%n leg#tur# cu comentariul publicat de cotidianul ,,libertatea''
referitor la vizita oficial# a ministrului rom&n de externe la
washington purt#torul de cuv&nt al m a e este %mputernicit s#
declare urm#toarele:
<clip clip clip>

3235 (end of -unsigned- message nr 3235)

That's all for now. See you next month ! -Ary-

==========

The WUN Military Column
Jim Pogue, editor (kh2ar@aol.com)
P.O. Box 3888
Memphis, Tn 38173-0888, USA

Welcome to another edition of the WUN Military Column. Plenty of information to pass along this month, so here we go:

FRENCH AIR FORCE: WUNer Jacques Pagnoux sends us the following great info from his homeland of France:
I'm sending you this contribution which may help people who hear French aircraft on HF but are not familiar with the call-signs used.

French military flights can be heard on HF. They will be using one of the following:
I) Cotam call-signs (CTM ....)These correspond mainly to transport missions (equivalent to the AMC) The word "Cotam ...." as a call-sign is mostly used by French controllers or pilots over France; the appropriate call-sign, as it appears on the flight plans, is CTM+four numbers. The word "Cotam" is just an old habit or tradition to refer to these flights.(Cotam is the abbreviation for "Commandement du Transport Aerien Militaire")

Here is what I know about these call-signs, although I'm not 100% sure of everything.
CTM 0001 is a presidential flight, no matter the type of aircraft or helicopter.
CTM 0002 is a prime minister flight (same)
CTM 0003 is minister of defense(same) ...etc, up to CTM 0010 or so, according to the function and hierarchical rank of the VIP transported, who is a minister in any case.
CTM 0030 to CTM 0100 are usually training or less important liaison flights from Villacoublay, including EVASAN(=evacuation sanitaire) (aeromedical): DA-20 or N262 aircraft.
CTM 0190-0199 are the special strategic communication flights to the benefit of nuclear submarines, by a handful of highly modified C-160s "ASTARTE" from Evreux
CTM 0501-0599 are other liaison flights from Villacoublay, usually N-262
CTM 1040-1045 are the most recent. They are allocated to military A-310 flights.

CTM 12.. has been heard very recently. No indications yet.
CTM 2000 onwards is a series which starts at the beginning of each year,it includes all C-160 and C-130 flights. It usually ends around CTM 5000-6000 at the end of the year, and it starts again at CTM 2000...
CTM 8800-88..? usually apply to long range DC-8 flights .

II) Call-signs associated with non-transport aircraft:
Apart from the CTM.... call-signs, there are also FAF .... flights, which include E-3Fs, C-135Fs on long range flights or using civilian airspace and procedures, as well as all fighters, bombers or military trainers using civilian ATC.(the latter mostly over France)

On long range flights one may hear:
FAF 1100 onwards or FAF 7000 onwards: C-135s
FAF 3700 onwards : E-3Fs
FAF 6600 onwards and FAF 6700 onwards: trainers (N-262,Xingus)

III) Not to be forgotten are the FNY .... flights which concern Navy flights, including Br1150 Atlantics or Atlantique maritime patrol aircraft, and N262 transports and trainers (the latter rarely heard outside France).
FNY 56.. Atlantiques from flotille 24F (Lorient)
FNY 58.. "" "" " "" 23F ""
FNY 53.. N262 from escadrille 56S (Nimes)
FNY 50.. or 51.. N262 from escadrille 2S (Lorient)

IV) Finally, rarely used outside France, one may hear aircraft or helicopters of the ALAT (Aviation Legere de l'Armee de Terre, army flights).They use the following call-signs:

LAT 8... (Puma helicopters or Gazelle, or Cessna 406s for liaison).

Thanks Jacques for this terrific rundown on info from France.

MEXICAN COAST GUARD: The Mexican Coast Guard has ordered 10 custom built patrol boats with law enforcement packages. The 29-foot-long boats are being built by Mako, supplier to the U.S. Army, Navy, Coast Guard and the Florida Marine Patrol.

PHILIPPINE AIR FORCE: Is anxious to replace their aging F-5 aircraft. Several competitors are biding on 18 replacement planes, including the U.S. Air Force with its F-16, the MiG-29 supplied by the Russian firm MAPO, France's Dassault's F-1 and Israel's IAI's Kfir 2000. With ongoing tensions over claims to the Spratly Islands, air superiority is a hot item in this part of the world.

ROYAL NAVY (UK): John Evans passes along this address and information on Culdrose Ops:
Culdrose Ops: Royal Naval Flight. 771 Squadron
Royal Naval Base, Culdrose
Cornwall
England UK

This is a Search & Rescue squadron, usually operating under Plymouth Rescue control. However Kinloss Rescue (ex Edinburgh) is able to assume control if Plymouth has problems. When operational on a mission the usual callsign will be NAVY 177 or 178. This signifies a `live` mission. When on training, or suchlike, they will use a normal tac callsign.
If you call them RAF you will have them turning in their grave !!!!!

U.S. AIR FORCE: SSGT David George, verie signer for Croughton GHFS, says they recently changed the name of their unit following the closure of RAF Upper Heyford. Their unit and address is now

603rd Communications Squadron/SCRG
Global HF Station
Unit 5855
APO AE 09494
SSGT George says to listen for them on 4724, 6712, 8992, 11175, 13200, 15016

and 17976 kHz USB.

The first ever display of the newest X-plane, the X-36, a remotely piloted tailless research aircraft will take place at 11 a.m. EST Tuesday, March 19, at McDonnell Douglas, St. Louis, MO.

The X-36 is a tailless design for a stealthy fighter aircraft that could dramatically change the look of future jet fighters. This scaled, remotely piloted aircraft concept has no vertical tail, yet is expected to demonstrate the feasibility of future fighters achieving maneuverability superior to today's best fighters. By eliminating the need for these tail control surfaces, future tailless fighter aircraft will weigh less, fly farther and be able to survive better than today US fighters. This revolutionary new design is the result of technical breakthroughs made by a dedicated team of engineers from NASA Ames Research Center, Mountain View, CA, and McDonnell Douglas Aerospace.

U.S. ARMY: The first flight of the U.S. Army's prototype Comanche armed reconnaissance helicopter took place January 4. The service plans to buy almost 1,300 of the birds to replace their Vietnam-vintage OH-58A/C scout and AH-1 light attack helicopters.

U.S. COAST GUARD: Here's some interesting info Wade Taylor passed on that I don't think this is widely known. He says: I just figured out what USCG means by "bravo freq for secure comms." They simply mean LSB of same freq. Years ago when I was in AFCS (Air Force Comm Svc) we used to use independent side band (ISB) for point to point comms. Most freqs were authorized 12KHz bandwidth so we divided that up into four 3KHz "slots". We would use one slot for VFCT (Voice Frequency Carrier Telegraph) and the other three slots for voice or WEFAX. The four slots were identified as follows:

Slot A = upper sideband normal (300 to 3000Hz above cxr)
Slot B = lower sideband normal (300 to 3000Hz below cxr)
Slot C = upper sideband translated (3300 to 6000Hz above cxr)
Slot D = lower sideband translated (3300 to 6000Hz below cxr)

So today I tuned one rcvr to 5696USB and another to 5696LSB and bingo - lots of ANDVT on LSB.
Thus Wade solves the mystery of "Bravo" frequency!

U.S. NAVY: The U.S. Navy approved the weapon system for the new LPD-17 class of amphibious assault ship, one of the final hurdles before building begins. The contract for the first vessel should be awarded this year, with first commissioning in mid-2002.
These items from the Navy News Service: Modernizing the force is a top priority in DOD's FY97 budget, senior defense officials said. Procurement funds will increase by about 40 percent over the next four years. The FY97 budget dedicates $38.9 billion to modernization and procurement.

From FY90 to this year, officials said, procurement funds dropped 60 percent and DOD reduced the armed forces by about one-third. The services phased out older equipment, resulting in a drop in the average age of equipment. With the drawdown nearly over, officials said, it's time to modernize the force.

Operations in Bosnia, including the deployment of Predator unmanned aerial vehicles, have renewed emphasis on DOD's ability to provide real-time, accurate information in the field, an official said.

Nearly $600 million is allocated for the Joint Strike Fighter program to develop an affordable next-generation strike fighter for the Air Force, Marine Corps, Navy and U.S. allies. The fighter will replace the F-16, the AV-8B, F/A-18 and supplement the Navy's F/A-18E/F. Between fiscal years 1998 and 2001, DOD projects $3.2 billion for the program.

DOD is buying 12 F/A-18E/F Hornet aircraft in FY97 for $2.6 billion.

The Navy will deploy the twin-engine, multi-mission, tactical aircraft to fighter and attack squadrons. It will have enhanced range, payload and survivability features compared to earlier models of the aircraft. The Hornet E/F will replace the C/D model and partially replace the A-6E Intruder and the F-14A Tomcat. The new Hornet will perform strike, interdiction,

close air support, fighter escort and fleet air defense missions. During the next four years, DOD plans to buy 150 of the aircraft for $14.3 billion.

DOD is buying four V-22 Osprey aircraft for $1.1 billion in FY97. The tilt-rotor, vertical take-off and landing aircraft will perform airborne assault, vertical lift, combat search and rescue and special operations missions. Between fiscal years 1998 and 2001, DOD plans to buy 31 Ospreys for $3.9 billion.

About $3.4 billion will go to buy four DDG-51 Aegis-class destroyers. DOD plans to buy 11 Aegis destroyers between fiscal years 1998 and 2001 at a cost of $11.8 billion.

In response to the announcement of missile tests and military live-fire exercises to be conducted by the Chinese in the waters surrounding the island of Taiwan, the United States has dispatched forward deployed naval assets, including a carrier and other combatants to the area to monitor the situation.

Demonstrating the value of having mobile and flexible forces deployed and operating worldwide, the U.S. Navy has again been called on by the leadership of the United States to respond as the force of choice.

Operating in international waters, the aircraft carrier USS Independence (CV 62) and other units in its battle group have been on the scene since the exercises began. Having just completed a port visit to Manila, Republic of the Philippines, the ships were readily available to respond to the tasking from the national command authorities.

One of the ships in the group, USS Bunker Hill (CG 52), is operating south of Taiwan using its SPY-1 Aegis radar and other means to observe the missile tests. Other ships operating with the Independence include USS Hewitt (DD 966), USS O'Brien (DD 975), and USS McClusky (FFG 41). Aircraft from Carrier Air Wing Five are embarked with Independence.

To augment the monitoring efforts, and further demonstrate U.S. commitment to peace and stability in the region, the carrier USS Nimitz (CVN 68) and elements of its battle group received orders to sail from the Arabian Gulf to the Western Pacific earlier than planned. They are scheduled to arrive in the area next week.

Accompanying Nimitz are USS Port Royal (CG 73), USS Callaghan (DD 994), USS Oldendorf (DD 972), USS Ford (FFG 54), USS Willamette (AO 180), USS Shasta (AE 33) and USS Portsmouth (SSN 707). Aircraft from Carrier Air Wing Nine are embarked with Nimitz.

Additionally, the aircraft carrier George Washington (CVN 73), currently underway in the Western Mediterranean, will move into the area of responsibility of the Commander in Chief, U.S. Central Command. Ships accompanying George Washington include USS San Jacinto (CG 56), USS Merrimack (AO 179), USS Mt. Baker (AE 34) and USS Scranton (SSN 756). These ships will transit the Suez Canal en route to that region. Carrier Air Wing Seven aircraft are embarked with George Washington.

The mission of all these naval forces is to serve as stabilizing and resolute forces in response to tensions in their respective areas of operations.

INTERNATIONAL NAVIES: The March 1996 issue of the U.S. Naval Institute (USNI) Proceedings magazine contains their annual "International Navies Review." This is an excellent means for DXers interested in this topic to keep up on what's going on around the world. To order a copy or for information on joining the USNI, write to them at 2062 Generals Highway, Annapolis, MD 21401.

MISC: Moss Point Marine, Inc., has announced delivery of the Petrojet 5, a 114-foot-long anchor handling tug, to Petroleum Projects & Technical Consultations Co., Cairo, Egypt. I strongly suspect this is the vessel from which several of us heard a couple of U.S. Army warrant officers, talking to U.S. Army Vessels but using an Egyptian callsign.

WUN-v02
Editor: Jim Pogue (kh2ar@aol.com)
P.O. Box 3888
Memphis, TN 38173-0888 USA

It's time to set sail for another Nautical News column, so anchors aweigh and here we go.

* In a recent QSL from the M/S Columbus America, the Radio Officer tells us that several Hamburg-Sudamerikanische vessels changed from German to Liberian flags on Jan. 23. The new callsigns are as follows:
Columbus America - ELSX2
Columbus Australia - ELSX3
Columbus New Zealand - ELSX4

He also added that in March, GMDSS would be installed, and that there would be no more Morse code used thereafter.

* Conoco, Inc. Domestic Marine Operations, has taken delivery of the M/C Coushatta, one of three high horsepower towboats they have ordered. The new vessel went directly into tank barge service on the Intercoastal Waterway, out of its home port of Lake Charles, Louisiana. The vessel is 70.5 feet long, has a 28 foot beam and a design draft of 8 feet.

* A recent article in the Sacramento Bee - sent to us by Art Blair - tells us more about the break-up of the Royal Cruise Line family. In a nutshell:

Crown Odyssey will transfer to Norwegian Caribbean Line (NCL), and be renamed Norwegian Crown. It will sail weekly western Caribbean cruises from Ft. lauderdale until April 20, when it will move to Vancouver for weekly cruises to Alaska.

Royal Odyssey will complete its current world cruise and then transfer to NCL on May 14 before continuing on to Alaska for the summer season.

Star Odyseey will follow its current itineraries through May 16, when it becomes an NCL vessel and begins sailing the Scandinavian itineraries published for the Crown Odyssey.

Queen Odyssey has been sold to Seabourne Cruise Line for $55 million. The Queen Odyssey is a sister ships to Seabourne's two vessels, the Spirit and the Pride. Its new name will be Seabourne Legend.

Thanks for this and other info you've sent us Art - please keep it coming!

* German ship owner Peter Deilmann has ordered a 22,400-grt cruise liner, to be christened the Deutschland, from German shipbuilder HDW, for a contracted price of approximately $142 million.

* Vancouver BC-based Canadian Transportation is expected to register three of its open-hatch bulk carriers used in the timber trade, the City of Alberni, City of Westminster, and City of Nanaimo, all of about 32,200 dwt, under the flag of Barbados.

* American Hawaii Cruises has extended the lay-up time of the cruise liner Constitution until the middle of 1997. According to an American Hawaii spokesperson, the estimated cost of rebuilding the 45-year-old ship to meet modern standards has risen to over $50 million, largely because of greater than expected steel replacement.

* Star Cruises of Malaysia has ordered two 75,000-grt cruise liners from Germany's Meyer Werft shipyard, for a total cost of approximately $700 million. The sister ships will have a passenger capacity of between 2,200 and 2,800 each, and will carry 1,000 crew members. They will be delivered in 1998, under the names Superstar Leo and Superstar Virgo. Other cruise vessels operated by Star Cruises include Langkapuri Star Aquarius, Star Pisces, Megastar Aries, Megastar Taurus, and Star Gemini (formerly Cunard's Crown Jewel).

* A subsidiary of the Mormac Marine Group, Mormac Marine Enterprises, has been awarded a management contract covering five US-flag tankers, the Kansas Trader, Iowa Trader, Delaware Trader, Potomac Trader and Chesapeake Trader, all owned by New York-based Penn-Attransco Corp. A sixth Penn-Attransco tanker, the 57,844-dwt Baltimore Trader, has been sold for scrap after it was determined that current market conditions could not support the 1955-built vessel.

* Matson Navigation Co. inaugurated service to Guam and Micronesia with the departure of the M/V Mahimahi from Oakland on Feb. 9. The service is part of the new Pacific Alliance Service offered jointly by Matson and American President Lines, with calls at Oakland, Honolulu, Guam, Busan, Hakata, Nagoya, Yokohama and Los Angeles.

* San Diego's National Steel and Shipbuilding Co. is converting three former Maersk Line container vessels into Strategic Sealift ships for the U.S. Navy.

Laura Maersk will become USNS Shugart
Lica Maersk will become USNS Soderman
Leise Maersk will become USNS Yano

* The research vessel Western Flyer is a 117-foot by 53-foot SWATH ship. It serves as mother ship to the Remotely Operated Vehicle (ROV) operated by the Monterey Bay (California) Aquarium Research Institute. The all aluminum, twin-hulled vessel has accommodations for 10 crewmembers and 16 scientists.

* The former USNS Maury is scheduled to become the new training ship Golden Bear for the California Maritime Academy at Vallejo.

* Holland America Line recently announced it will retire its 37-year-old flagship Rotterdam on Sept. 30, 1997, following a final voyage from Vancouver, BC to Port Everglades, Florida.
Venice Simplon-Orient Express, Ltd. has inaugurated operations on Burma's Irrawaddy River, with the luxury cruiser Road to Mandalay, which is sailing between Mandalay and Pagan.

* Fort Lauderdale-based Silversea Cruises has finalized its contracts for two new vessels. The ships will be approximately 30-percent larger than the lines existing Silver Wind and Silver Cloud, when completed in Italy in 1998/99.

* For you diehard Web surfers, you can get info on Canada's BC Ferries at the following site: http://bcferries.bc.ca/ferries.

* U.S. bankruptcy court has extended until April 8, the time in which Lykes Bros. Steamship Co., Inc., has the right to file a plan of reorganization. The court has also denied a creditor relief from its Oct. 12, 1995, order protecting all of Lykes vessels and enjoining any collection efforts. No other creditors have challenged the stay order to date. Lykes also won approval to sell its two ocean-going barges, the Lykes Innovator and Lykes Enterprise, both fashioned from the hulls of former Lykes breakbulk ships, to a Mexican buyer.

And finally, Maritime Reporter/Engineering News magazine has announced their "Outstanding Cruise Ships of 1995." Here are their picks:

Vessel	Owner	Passenger capacity
Oriana	P&O Cruises	1,975
Sun Princess	Princess Cruises	2,400
Imagination	Carnival Cruise Lines	2,634
Crystal Symphony	Nippon Yusen Kaisha Line	960
Century	Celebrity Cruises	1,750
Legend of the Seas	Royal Caribbean Cruise Line	2,076

Speaking of cruise ships, Harold Woering reports right as we are going to press of logging the M/S Inspiration. She was not supposed to be out until 4/30, but due to logging her several times on 4 Mhz freqs, it looks like she is out and about. Her call is 3FOA5. Thanks Harold!

That's all for this month. See you in 30 days.

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New Products, Books and Reviews

Rick "RD" Baker, editor
1352 Cavalcade Dr., Austintown, Ohio 44515-3844 or: ae411@yfn.ysu.edu

Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column.

o Software Review
SYNOPTIC Software by Douglas John Standen

This is the third of the programs John has developed for your ute enjoyment. It is intended for use with files obtained via the Internet, which contain thousands of reports covering the whole world. It also will decode and plot your captured RTTY reports with an optional module.
The internet reports are available for each hour over a 30 day period. The Main report times of interest are 00, 06, 12, 18, these files are normally in the order of 580k.

The program allows you to generate your own maps of any part of the world and to plot to the maps synoptic symbols.
A 33,000 ship database is incorporated which will display the ship name if it is known. The database may be upgraded by the user.

We discussed the system requirements and screens in the last two columns for John's other programs. They are the same for Synoptic so I went duplicate all that. I tested the program on a Compaq Presario 982 Pentium 90 under Windows 95. It is a Windows style program, with top line menu, and drop down boxes. The program has been run on 286/386/486/Pentium machines with microsoft compatible serial mouse in one of the com ports (1-4). Installation is just as easy as John's other programs.

On starting the program the opening screen gives the top menu.

Files Land Rectilinear ClrScr Table Polar Ocean DosPr Exit

The options available under the main menu items are as follows:-
FILES

Radio File Filter
WMO File Filter
Delete Files

Radio file filter is for extracting files from a RTTY report the report must be named in date/time, such as 95121006.RAW
The filter will extract the land and marine reports and name the new files as 95121006.AAX and 95121006.BBX. Only the suffix .RAW is acceptable. Radio data is taken using an RTTY demodulator and software from Meteo stations around the world.

LAND

The options available are only applicable to Land Reports and are:- Plot Land Stations, Extract Area Reports and File Report Table

PLOT LAND STATIONS:-

On selection you will be presented with a list of files, as the list grows you may need to use the up/down scroll in order to find the required data file. The maximum number of files in the working directory is fifty.

Once a file has been selected the land station options appear:-

Marker Only
Full Station Circle
Cloud Circle Only
Wind and cloud Circle
Temp and Marker
Pressure and Marker
Station Name Only

MARKER ONLY:
If the marker only is selected then just a star at the station location will appear, no Met code is available. The purpose of this is to load the world map and see where the current reports are available.

FULL STATION CIRCLE:
The color palette displays, which after color selection will display the station circle.

CLOUD CIRCLE ONLY:
As above but only the cloud circle is shown, this will enable more station locations to be plotted. The drop down decoded data table is available after this option.

WIND AND CLOUD CIRCLE: Same as above.

TEMPERATURE AND MARKER:
Places the station marker on the map with the temperature alongside, temperatures below zero have a minus sign, while above zero there is no sign.

PRESSURE AND MARKER:
Displays pressure to the nearest whole figure.

STATION NAME ONLY:
Displays a marker and the name of each station for which there is a current report available.

EXTRACT AREA REPORTS:
Due to the size and the amount of data in the Met file, it can and will take a long time to go through the whole world waiting for a small area of interest, for example NEW ZEALAND. The extract option, quickly transfers data to a new file that only pertains to the area of interest.

FILE REPORT TABLE:
This is a tabular display of each country available and the number of reports from each.
The options available are:-Load Existing Map, Overlay Grid, World WMO stations, and Map Options.

Just what you can do with a map in this program is pretty amazing! As with John's other programs you would need several more pages to discuss every option and detail. If your into weather, maritime or digital meteo, this is THE program for you.
Synoptic costs 85 pounds with a further 25 pounds for the Radiosonde module via JHS Systems and Software, Cropton, Pickering, North Yorkshire, YO18 8HL UK. Payment: Eurocheque or pounds: dollars conversion plus ten dollars in notes. Includes postage worldwide airmail. Demo version is available on ftp.demon.co.uk in pub\ibmpc\dos\demos\airplot along with John's other programs. John can also be contacted via the internet at: John@metsys.demon.co.uk

Books You'll Like
o SPEZIAL-FREQUENZLISTE 1996/97 by Rainer Brannolte/Wolf Siebel
ISBN 3-922221-80-7

Back in WUN Newsletter Vol. 1, No.10 (October, 1995) Ary Boender did a guest book review on The Spezial-Frequenzliste 1996/97. Co-author and fellow WUN'er Rainer Brannolte sent me a copy a few months back asking that I look at it from a North American viewpoint.
'Spezial-Frequenzliste' is an utility frequency guide that is published every two years. Softbound, it comes in at 347 pages. Although the book is written in German and I don't speak a word of German (ok, maybe one word but it's not a polite one -hi!), I had no problems using the information provided.
There are over 200 pages of frequency listings that cover 9 khz to 30 Mhz. The remaining pages include a ITU callsign list, country codes and a lot of addresses. Again, all of this information was understandable. There were very few pages where the non-German reader becomes lost.

SSB is well covered and provides fair to good coverage into North America. The U.S. and Canadian Coast Guards for example, are well covered. In fact, for the USCG, an attempt is made to list individual station ID's under each frequency. This was also true for the NAVMARCORMARS (U.S. Navy/Marine Corps MARS) main calling frequency of 14441.5 Khz. So although I see 9 stations listed, the frequency is simply listed as 'MARS'. I checked several other common NA frequencies and found that the majority were at least present, if the ID was not 100% correct. An example was the USN SESEF Norfolk on 7535 listed as NAM, Norfolk, Va. So although the ID is not 100% correct, I could find it was a USN frequency, which it is with primary use by SESEF (Ships Electronic Systems Evaluation Facility). Others were right on the money. One exception is NMA, former USCG CommSta Miami still being listed. That station closed in 1993 or so after it was fairly destroyed by a hurricane. On the plus side, Lahr Military (Canadian Forces) is no longer listed, that station also having been closed.

The best part I found was the coverage of SSB elsewhere in the world. Many I have not seen published before. There are listings of the aero stations found on various frequencies which seemed very complete. It looks like a lot of effort went into the aero frequencies. This is very nice compared to an indication of "MID-1 MWARA" since some of the names we hear can be a little hard to understand. Seeing the name under the frequency confirms what you heard. Maritime coverage is also very good. Many other interesting SSB frequencies are listed.

The digital modes for NA stations (mostly military meteo) are certainly listed. The ID's and modes are straight forward so that if the mode is ARQ-E3 it says ARQ-E3. Overall, I found the digital information fairly well covered worldwide and again coverage of a few areas I have not seen in a publication before.

So after working with the book for over 2 months, I found it a useful source of information for the utility world. Even for the North American listener!

'Spezial-Frequenzliste 1996/97' by Rainer Brannolte and Wolf Siebel is available at dealers throughout Europe, but not in North America. But it can also be ordered direct from the publisher Siebel-Verlag, Auf dem Steinbuechel 6, D-53340 Meckenheim, Germany. The price is for Europe DEM 40, and DEM 50,/US$ 35, for the rest of the world. Write for further details.

Ran out of time, so next month we have several reviews for software from the Netherlands and more!

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Editor: Martin C. Barry <mbarry@absint.login.qc.ca>
6875 Fielding #02
Montreal (Quebec)
Canada H4V 1P3

STATION VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

CIVIL SHIPS

M/V Iris Ace/3EAD9	12438.0	CW	PFC	120 ds	1.2 kw vertical		(JSM)
R/V Lake Guardian/WAD9082	4077.0	USB	PFC	146 ds	100 w 21' vert.		(JSM)
Norgas Transporter/ELPW8	16173.5	SIT	PFC	164 ds	1.5 kw vertical		(JSM)
Nordic Empress/ELJV7	4113.0	USB	PFC	15 ds			(HW)
Seabreeze I/3FGV2	4113.0	USB	PFC	27 ds			(HW)

FIXED STATIONS

MacDill GCCS	11175.0	USB	LTR	16 ds			(HS)
Berna Radio	6643.0	USB	CRD	10 ds	+booklet		(HS)
Scheveningen R./PA9OPCH	3673.0	USB	CRD	410 ds	+certificate		(HS)

MILITARY/COAST GUARD SHIPS

USAV Kennesaw Mtn. LCU-2002/AAEG	8294.0	USB	PFC	41 ds	letter		(RB)
USS John Rodgers DD-983/NYQL	7535.0	USB	PFC	124 ds			(RB)
USAV Manassas LCU-1667/AAOU	15016.0	USB	PFC	50 ds			(RA)

CIVIL AIRCRAFT

ATN 502/N735PL	13330.0	USB	PFC	20 ds	DC8 freighter	(JSM)
Elite 313/C-FOOG	2887.0	USB	PFC	14 ds	B757-200	(JSM)
Elite 725/C-FXOK	2869.0	USB	PFC	14 ds	B757-200	(JSM)
Air Malawi 164/7Q-YKP	8879.0	USB	PFC	10 ds	B737-300	(JSM)
AFM 01/Z-WMJ	8903.0	USB	PFC	35 ds	DC8 freighter	(JSM)
CSA 169/OK-WAB	6556.0	USB	PFC	28 ds	A-310-300	(JSM)
Swissair 187/HB-IWI	5670.0	USB	PFC	12 ds	MD-11	(JSM)
Air France 157/F-GLZF	5670.0	USB	PFC	26 ds	A-340-300	(JSM)
AIN 813/3D-AFR	8903.0	USB	PFC	13 ds	DC8 freighter	(JSM)
Airlanka 423/4R-ADA	5670.0	USB	PFC	22 ds	A-340	(JSM)
Cathay 749/VH-HUA	5634.0	USB	PFC	47 ds	+pers ltr/747-400	(TO)
BA Concorde 001/G-BOAG	8879.0	USB	PFC	27 ds	Concorde	(TO)
Springbok 238/ZS-SAU	8933.0	USB	PFC	121 ds	747-300	(TO)
Medjet 25/N25MJ	8864.0	USB	PFC	29 ds	HS125	(TO)
Speedbird 2654/G-BUHJ	10072.0	USB	PFC	33 ds	+pers ltr/737-400	(TO)
Northwest 33	6622.0	USB	PFC	29 ds	747-200	(TO)
Air Canada 967/C-GAVC	5550.0	USB	PFC	40 ds	767-200ER	(TO)
Fine Air 364	6637.0	USB	PFC	28 ds	DC8F	(TO)
Speedbird 069/G-BDXO	5658.0	USB	PFC	7 ds	747-200	(TO)

MARITIME/NAVAL/COAST GUARD STATIONS

Iqaluit CG Radio/VFF	2182.0	USB	PFC	142 ds	5kw vert. ant.	(JSM)
Kinloss Rescue	5680.0	USB	LTR	11 ds		(HS)
Riga Rescue	5680.0	USB	LTR	37 ds	+viewcard	(HS)
Yarmouth Coast Guard	2182.0	USB	LTR	12 ds	+lots of info	(HS)
NAVRADSTA Madrid/EBA	13059.0	CW	LTR	33 ds	+sked	(HS)
St. Lys Radio/FFL41	8806.0	USB	PFC	15 ds	+folder w/sked	(MB)
Ocean Gate R./WOO	4387.0	USB	CRD	62 ds	chart + booklets	(MB)

*** TIPS & TIDBITS ***

The Canada Maritime shipping agency has just christened a $45-million (U.S.) container ship, the CanMar Courage, one of two vessels custom-built to ply the North Atlantic. The Courage and its sister vessel, the CanMar Fortune, are the first new ships ever acquired by Canada Maritime, which is a division of CP Ships. The Courage, built in South Korea, is 216 metres long and 32 metres wide, with a crew of 23, and will run between Montreal, Antwerp and Felixstowe. It has an ice-strengthened hull, winterized deck and bridge, and an engine designed to forge through ice. Should anyone want to monitor and QSL the vessels, here's the address:

Canada Maritime Agencies Limited
Montreal Head Office
3400 De Maisonneuve Blvd. W.
Montreal, Quebec
H3Z 3E7
Attn: Operations Manager

Steve McDonald (VE7SL) of Mayne Island, British Columbia, submits the following addresses:

Airlanka
No. 37 York St.
Colombo 01
Sri Lanka

African International Airways (AIN)
1 The Brunei Centre
Newton Rd, Crawley
West Sussex
RH10 2TU
U.K.
Attn: J.J. Dobbin

Air France
45 rue de Paris
F-75757 Roissy CDG cedex
France
Attn: M. Duboulay

Swissair
Postfach CH-8058
Zurich-Flughafen
Switzerland
Attn: Flight Communications OCSC

Czech Airlines (CSA)
Airport Ruzyne
160 08 Prague 6
Czech Republic

Affretair (AFM)
PO Box 655
Harae
Zimbabwe

Air Malawi
PO Box 84
Blantyre
Malawi

Canada 3000 (Elite)
27 Fasken Dr.
Toronto, Ontario
M9W 1K6
Attn: Flt Ops

Air Transport International
Clark Bldg.
3800 Rodney Parkham Rd.
Little Rock, AR
72212
Attn: K.R. Coombs III

M/V Iris Ace
Mitsuit O.S.K. Lines
Shosen Mitsui Bldg.
PO Box 5, 1-1
Toranomon 2-chome
Minato-ku
Tokyo 105-91

Norgas Transporter
Chemikalien Seetransport GMBH
Mattentwiete 1
2045
Hamburg
Germany

Lake Guardian
Government of U.S.A.
Environmental Protection Agency
Bay City
Michigan
USA

Iqaluit CG Radio
Frobisher Bay Station
Transport Canada
Frobisher, NWT
Canada
X0A 0H0

Harold Woering of Mass. sends along these:

Nordic Empress
Royal Caribbean Cruise Line
1050 Caribbean Way
Miami, FL 33126

Century
Celebrity Cruises
5201 Blue Lagoon Drive
Miami, FL
33126

Tony Orr writes to say that one of his QSL's listed this month from Speedbird 069 arrived in only 7 days and was personally signed by the aircraft's captain, Dave Summers.

I quote from a recent e-mail received from Henning Sandte of Germany:

"PA90PCH (see Fixed Stations) was Scheveningen Radio operating with this special callsign on the hambands on occasion of the 90th anniversary celebrations of Scheveningen Radio/PCH."

He also passes on the information that Kinloss Rescue has taken over the duties of Edinburgh Rescue which closed down. The address is:

Supervising Radio Officer
HF SAR Comms
ARCC Kinloss
Forres
Morayshire IV36 0UH
Scotland.

He also sends the following addresses:

Yarmouth Coastguard
District Controller
HM Coastguard
Eastern Region
Yarmouth District

NAVRADSTA Madrid/EBA
Jefe de Estacion
E.R.E.M.A.
SAN SEBASTAION DE LOS REYES
Calle Real 97

4th Floor
Havenbridge House
Great Yarmouth
NR30 1HZ
UK

E-28700 SAN SEBASTAION DE LOS REYES
MADRID
Espana

Riga Rescue
MRCC RIGA
Latvian Sea Search and Rescue Service
Andrejsala 4
Riga
LV-1045
LATVIA

Berna Radio
Swiss PTT
Mobile HF Radio Services
Laupenstr. 18
CH-3030 Berne
Switzerland

Scheveningen Radio/PCH
PTT Station 12
Scheveningen Radio
Postbus 468
NL-1970 AL Ijmuiden
The Netherlands

Michael Oexner of Germany recently posted these:

"Architect"
HQ 38 GP
HQ STC
RAF High Wycombe
Buckinghamshire HP14 4UE

MV Shetland Service (GRHJ)
Zapata Gulf Marine
Block 3
Fishwharf
Gt. Yarmouth
Norfolk
UK

The following are addresses for maritime coast stations in the U.S., Canada and France that are dependable QSL'ers and whose transmissions can be monitored 24 hours daily:

Yarmouth Coast Guard Radio
P.O. Box 164
Yarmouth, N.S.
Canada
B5A 4B2

AT&T Station WOM
1350 NW 40th Avenue
Fort Lauderdale, FL
33313
USA

AT&T Station WOO
P.O. Box 550
End of Beach Avenue
Manahawkin, NJ
08050
USA

France Telecom
St.-Lys Radio
Reseaux et Services Internationaux
Centre Radiomaritime de Saint-Lys
Service Commercial Radiomaritime
31470 SAINT-LYS
France

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HINTS TO SUCCESSFUL QSL'ing

Depending on how successful you are QSL'ing high-frequency utility stations, you may consider the hobby either very rewarding or equally disappointing. Your ratio of return versus reception reports sent out can fluctuate up or down depending on a lot of factors, not all of which are within your control. But if you abide by the following points (as well as any others you may set for yourself), you'll be making things a lot easier, and inevitably will increase the odds of a successful QSL.

PERSISTENCE - As the saying goes, "If at first you don't succeed..." There have to be at least a few utes out there who've just kept trying on a single station until it finally QSL'd. Last month alone contributor Andreas Ibold posted a catch here that came through only after three tries! There's really no telling how many attempts it can take. But three is not a bad figure if you want the veri enough. Chances are that if you're submitting good reception reports and they're still not responding, that you're probably

just nabbing them at the wrong time when they're too busy (unless they have a specific policy of never acknowledging listeners). Part of your organization might be to set a limit on the number of attempts you make on a station, or else just use your judgement and play it by ear.

BE SPECIFIC - If you give yourself the trouble to be more specific in your reports, you could also be helping things along considerably. The trick is to be specific without revealing confidential details that could torpedo the whole thing then and there. It's a question of treading the fine line between indisputable fact and indiscretion. The person reading your request has to be made certain and as quickly as possible that you have heard a transmission by his station, but you don't want to go too far or startle him with some inappropriate information. QSL'ing a maritime shore station, for instance, traffic lists with names of vessels and callsigns are good, while names of callers and message content are strictly taboo and may be a violation of law. In trying to be specific, you may want to send a report that's a little too elaborate or overdone in its reference to details of the transmission, but that may just achieve the desired end because the operator will have no doubt you've done your homework. Write a reception report that's specific (but discrete) without being boring and you'll definitely be on track to a QSL.

GET THE FACTS STRAIGHT - There's no telling how many reception reports have had their odds shot out from under because of oversights and stupid mistakes in them. You think you've got all the details straight, then a casual glance at your back correspondence shows you left out either the time or the date or another vital piece of information. All you're left with then is the frustration of knowing your report is useless before it's even reached its destination. So double-check everything you're sending out, and cross-check the data in your cover-letter/PFC with that in your log to be sure you're not omitting anything. It's easy to forget little things: remember that midnight UTC may be only about 19:00 local, but the date changes and your data has to show it (there's a big difference between 00:30 UTC March 10 and 00:30 March 11). The best thing is to keep a constant reminder of this, like a wall-mounted clock with UTC readout, or if possible a unit that also displays the current date. Even a printed reminder on the wall, anything to keep you on your toes. And while you can probably monitor and log under almost any circumstances, it might be advisable to write up your actual reception reports and PFC's when you're alert and rested, maybe even limiting how many of them you send off at one time so as not to get the data confused. If you're careful to get your facts straight ahead of time, you won't be tempted to do something drastic after.

ORGANIZATION - Eventually if you keep at QSL'ing long enough, you may find that the greatest asset you'll have developed is your sense of routine. If you organize yourself in such a way that you have everything available that's necessary to your hobby and within easy reach, a certain routine will set in so you'll know what you're doing without having to think much about it. As a means of minimizing costly errors it's something to contemplate. QSL'ing is an activity you have to keep at no matter what. There can be periods of drought when you aren't receiving any responses at all. This shouldn't stop you from sending out reception reports all the same. Your sense of routine should carry you through the down as well as the up times. Since QSL'ing involves the use of postal services primarily (although fax and e-mail can also be used), you should have at your disposal at all times all of the various supplies for this purpose: envelopes of varying sizes, stationary, cardboard or stiff paper for PFC's, postage for domestic and international destinations, mint stamps for the return, IRC's (optional International Reply Coupons available at the post office), and greenbacks as 'incentives' or alternatives to return postage. Develop a standard form letter that's sent to all potential verifiers and think of ways to revise it depending on the response you get. The efficiency of your QSL organization will play a major role in your success in the hobby.

WHOOPS! We said in our last column that we'd be dealing with mint stamps, IRC's and other means of return postage this time. But since we got a bit carried away with this month's topic, it'll be for the next time, pro-

mise. 73's, and if you aren't already doing so, try a little QSL'ing: it'll make your heart glad :)

# # #

Thanks to this month's contributors:
(JSM) Steve McDonald, Canada
(HW) Harold Woering, USA
(RB) Rick Baker, USA
(HS) Henning Sandte, Germany
(TO) Tony Orr, USA
(RA) Rick Albright, USA
(MB) Martin Barry, Canada

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 _______|                SURFING THE LONGWAVES                        |_______
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  \     |        Editor: George Karayannopoulos, N2OWO                |     /
   )    |              karayan@crow.cybercomm.net                     |    (
  /     |_____________________________________________________________|     \
 /     \|                                                           |/     \
/_______)                                                             (_______\
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HUNTING TROPHIES

Wow! Its March already! Where are the days going? I guess, by the time you read this, it will be close to April.
We are approaching the end of the official longwave monitoring season. I guess that means that beacon hunting licenses should be expiring some time soon :-) Actually, some dedicated hobbyists continue listening all throughout the year. Great catches have been made in the middle of summer static crashes. So don't give up quite just yet! Keep listening. You never know what may pop up at any time.

I've been having troubles again with my Internet account, but this time it is my fault. If you sent me e-mail since the February issue and I have not responded, send it to me again. By the time you read this, the usual address (karayan@crow.cybercomm.net) should be active again.

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QSLing stations weve heard has been an integral part of our ute monitoring hobby. For some of us, it _is_ the hobby! Certainly, the QSL collections plastering the shack walls is for some of us the equivalent of a world-class athletes trophy cabinet: QSLs are our trophies.

More than that, though, QSL cards (or, really PFCs) usually come with a bunch of goodies. It may be just a personal note from a radio officer, a picture of the shack or vessel, or a host of additional information that makes it all the more worthwhile.

Needless to say, then, QSLing has its place in longwave radio also. This month we have an article from Jill Dybka (dybkaj@harpo.tnstate.edu), who is active in QSLing longwave beacons. Jill has been a contributor to the QSL Report column of the WUNewsletter. As you may also know, Jill has a radio page on the Web, located at URL: http://harpo.tnstate.edu/~dybkaj/radio.htm

(She tells me that her page is back online again.) While surfing Jill's Web pages, I came across her interest in QSLing beacons and I asked her to share some of her experiences. I will let Jill speak for herself:

****

I've been a LW beacon DX-er for about a year, using a Realistic DX440 radio and the internal ferrite antenna. Verifying beacon catches is an interest of mine and I would like to share some info that might be helpful. My verification rate is over 95%.

PFC

Since beacon operators don't issue their own verification cards, you'll have to "roll your own." I used WordPerfect with good results, with some help from a fellow DXer. (One of my PFC's is in the March 96 issue of "Popular Communications." Though I designed that card for a SW verie, my beacon PFC is similar). I print them on unlined 3 x 5 index cards. You can get them in bulk at warehouse-type office supply stores very cheaply.

Cover Letter/Report

There was a good example of a cover letter in a recent WUN newsletter [The QSL Report, 2/96 issue. - Ed.]. Clarity and politeness are very important. Wanting verification that you heard a LW beacon transmission *is* pretty weird when you think about it! My cover letter explains that listening to LW signals is a hobby of mine and I state clearly what it is I want--i.e. the card signed and returned. Sometimes, though, the recipient of my reception report doesn't understand. For example, I've had a PFC returned after being forwarded to an FAA employee who understood my request--perhaps because he was an amateur radio operator. But his fellow employees didn't. They had given it to him after they had written, "Dave--what is this?" on my reception report!

I try to keep the reception report simple, saying the signal was "poor" or "good" rather than using more technical info like the SINPO code. [Besides, beacon operators aren't exactly keeping track of their reception 1,500 miles away from their location :-) Ed.] The cover letter and reception info are included on the same page so I can keep it short and simple. The recipient is taking the time out of his or her day to read it.

Good Ideas

I *always* include a SASE for the return of the PFC. (For international QSLing, you can enclose an International Reply Coupon available at local post offices, or better yet, you can enclose mint foreign postage (of the recipients country) that you can get from stamp dealers serving radio hobbyists. - Ed)

In addition, I enclose a souvenir postcard of my city, Nashville. (Cracker Barrel restaurants have them for less than 25 cents each.) I think it's a nice practice to include some sort of "goodie" with your report. The verifier is doing you a favor. Also it helps out the hobby--sending a polite request increases the chance that the recipient will be likely to verify subsequent reports from other hobbyists. After a PFC is returned, I send a "Thank you for the verification" postcard, also printed on a 3 x 5 index card. (When I address the homemade postcard I write "postcard" at the top or the post office won't send it.)

Where to send it:

This is the tricky part, but can be fun if you like to "play detective." Ken Stryker's Aero Beacon Guide has been really helpful to me in my searches for Beacon QSL addresses. He lists the owner of the beacon--like "Coast Guard" or the airport name. (There's a few additional references that I've used with success [for USA addresses - Ed)

*Zip Code Index--larger post offices have this big index, as do some libraries. For example, you've heard a beacon at "Acme Airport" in "Anytown, MI." It's a smaller town, and your library doesn't have a copy of the town's yellow pages. The zip code index should help. It lists street names, so look for any airport-named streets in that town. Instant beacon QSL address:

Electronic Tech--Aids to Navigation
Acme Airport
Airport RD
Anytown MI zipcode

Though there isn't a street #, I've never failed to receive a verification using this method, (Provided the city in which the beacon is located has an airport-named street!)

*Out-of-town phone books--a well-stocked-library usually has a big selection of these. It may mean a trip you your library's main branch. A look at the "Airports" heading in the phone book of the town in which an airport beacon is located will give you an address. If you want to verify an FAA-operated beacon, look under "Department of Transportation." for an FAA local field office near the airport that the beacon serves.

*Internet sources:
The US Coast Guard page has address info if you need to verify a Coast Guard operated beacon. (http://www.dot.gov/dotinfo/uscg) There is a listing of districts, so pick the district that includes the beacon's location. I've had good luck addressing the reports like this:

Navaids
Commander (oan)
specific Coast guard district
anytown mi zipcode

The FAA page also has addresses of larger FAA facilities.
http://www.faa.gov/faahome.htm
I've had better luck with local field offices, though.

The best resource for beacon addresses is the Navaids page. You can search for a beacon by site or ID: http://www.cc.gatech.edu/db1/fly

Keeping track:

I keep track of my reception reports and loggings in a format like this.

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QSL                     kHz   ID   Location     Miles/Watts  Airport
Sent[x]11/24/95Rcvd[ ]  284   SCD  Sylacauga AL   205/25     Lee Herkle Fld.
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Using a freeware program, "bearing.zip," I get the distance between my QTH and the beacon, via longitude and latitude. You can find your longitude and latitude on the Internet at: telnet://martini.eecs.umich.edu:3000//

(Ken Stryker's guide lists the longitude and latitude of each beacon).
I have compiled a list of beacon QSL addresses I'd be happy to e-mail anyone who is interested. They're mostly Southeastern US addresses. Send your request to: dybkaj@harpo.tnstate.edu. (addresses valid until May 96)

Those WUNers who get a hard copy of the newsletter can send a SASE to:

Jill Dybka
TSU Box 5033
3500 John A Merritt Blvd.
Nashville TN 37209-1561
USA

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Well, how about that? 95% success rate puts even ham radio QSLing to shame! (Which reminds me... where did I put that stack of QSLs I have yet to reply to??? :-) Thanks for the tips, Jill.

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Time again the current version of the WUNTED list:

WUNTED LF STATION LIST

ID	Freq.	Heard in	Comments
W	272	NE USA	
W	295	NE USA	
FE	334	NE USA	Period ~5 sec, ID plus tone
ZDX	367	NE USA	Stryker says ZDX on 369, but no double sideband; the tzb for this one was 368.1
XW	399	NE USA	Not sure about the ID

This is a list of unidentified longwave stations

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      | submitted by WUN members. If you can help us identify |
      | any of these stations, send mail to:                   |
      | karayan@crow.cybercomm.net                             |
      | New submissions are always welcome. Send as much info |
      | about the logging as you can.                          |
    __|_____________________________________________________   |
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Beacon TE, on 214 kHz, has been identified as Teterboro (airport) - (Torby), New Jersey, USA. I should have known this one - I LIVE in New Jersey! Tnx to WUNer Bob Hamilton for this one.

Speaking of beacon IDs, I received e-mail from Dave Summers, a British Airways Captain of a 747, via our own Tony Orr. It turns out that Tony, our WUNewsletter aero columnist, shared copies of the newsletter with captain Summers, who read our WUNted list and checked his aircraft's navigational database for our unid'ed beacons! Here is part of his email to Tony:

>Reading through your WUN mag, (with the aid of a magnifying glass and a good
>light!) George Karayannopoulos was asking for more details about a number of
>beacons. Using the aircraft's navigation database last night on the way back
>from IAD, I was able to track down the lat & long for most of them. They are
>all (except 'TE') plotted on the Jeppesen Low Level Aviation RNAV charts.
>The charts give no other info re power, type etc. except where I have noted
>it. You might like to forward these details to him with my compliments.

>TE 214 (believed to be Teterboro' NJ) N4048.3 W07408.0
>TVX 521 Greencastle N3942.8 W08648.4
>ZLS 526 Stella Maris N2334.8 W07515.8
>ZDX 367 Antigua N1709.5 W06147.6
>PPA 450 Puerto Plata (Dom Rep) N1945.1 W07034.3
>GAS 420 Gallipolis N3850.0 W08209.7
>D9 383 Private NDB Deerhurst Resort, Ontario N4521.2 W07908.7
>YRR 377 Greely, Ottawa N4516.1 W07534.4

Way to go, Captain Summers! He also mentions that their a/c databases "know almost every beacon in the world!" (I assume he means aero beacons only). With the apparent lack of online info on beacons outside the North American continent, I wonder if that data could be obtained and placed online by some dedicated WUNers, maybe in Europe. I assume, of course, that this information is in the public domain. Any takers?

Well, that's it for now! Turn your dial and come down to see what lurks in the basement!

73 es gud DX, de
George, N2OWO

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UTILITY ROUND-UP

[editor: Ary Boender (ary@bitbike.iaf.nl 2:283/512.24)]

This month we'll concentrate on Intelligence and Spy stuff that can be found on the WWW. Many of the numbers stations that you are hearing on SW originate from (military) intelligence organizations. I found very interesting information on the sites that are listed here-after. You can read about the organizations and about numbers stations and their infamous transmissions. Some sites have even sound samples.
CONET plans a CD with recordings of numbers stations. It will be the first one to my knowledge. The list is far from complete but gives you an idea where to look for info about the more obscure side of our hobby.

o Costas Konstantinos from Greece writes that he heard MOSSAD's trans-
  missions to SYN with this unusual message: "SYN1 4D01" on 3090 kHz.

o Mike Chace has updated and enhanced his WWW pages on those mysterious number stations. If you want to read about the numbers stations, the ENIGMA club of numbers monitors, or you are just curious, be sure to check out Mike's pages.
http://itre.ncsu.edu/radio/numbers.html

Mike has some interesting thoughts and hopes that fellow members may be able to help him out. Like many others he wants to trace the location of the numbers stations. I think that his idea deserves support folks, it is for the benfit of all numbers monitors ! This is what he writes: ''One problem that causes me great frustration in my monitoring interests, is not knowing where signals are being transmitted from. C37A, CJL, WJI, "The Brotherhood", and Crowd-36 users are just a few examples of networks whose country/ies of origin I'd like to be a bit more certain of. The myriad of Numbers Stations still on air also provides another incentive for what I'm about to suggest.
I cannot afford a professional, accurate Direction Finding (DF) system of my own and I would need to move house and get a substantial increase in salary to accommodate a 2-30MHz rotatable log-periodic antenna in the back garden :-)
However, I think that there may be a solution. What I would like to do is to bring together a small dedicated network of shortwave "DF" stations owned by personal monitors. Doubtless it would be a "shoestring" operation at very low cost and, consequently low accuracy, but ANY equipment that can give an idea of direction of any signals on any Shortwave bands would improve what I have now.
Please mail me (mikec@praxis.co.uk) for more information or with your thoughts on this idea.''

o The CONET Project On-Line provides real-time recordings of Numbers Stations in Iwave format.
http://www.ibmpcug.co.uk/~irdial/coneline.htm

o CIA World Factbook
http://akebono.stanford.edu

o Central Intelligence Agency (CIA)
http://www.odci.gov/cia/text.html

o Communications Security (CSE)
http://watserv1.uwaterloo.ca/~brobinso/cse.html

o IWR - Intelligence Watch Report. Especially interesting are the listings by country and the daily intelligence newsreels.
http://awpi.com:80/IntelWeb/index.html

o Intelligence on the Web
http://www.fas.org/pub/gen/fas/irp/intelwww.html

o MILNET: Intelligence Agencies
http://www.onestep.com:80/milnet/intell.htm

o TPW: Terrorist Group Index
http://www.site.gmu.edu/~cdibona/grpindex.html

o Sinister Connections: Secret Stuff
http://www.webcom.com:80/~conspire/ahalink.html

o KIM spy
http://www.kimsoft.com/kim-spy.htm

o The 'Spy Numbers Stations Mailing List' is an excellent service from Chris Smolinski. E-mail Chris that you wanna be on his list. His e-mail address is cps@access.digex.net. Be sure to check out Chris' Numbers Web page http://www.access.digex.net/~cps/numbers.html
Here's a taste of the stuff on Chris' page and from his newsletters (thanks for all the info Chris !).

Types of Shortwave Spy Numbers Stations:

4-digit Spanish YL
This is a fairly commonly heard format, though not as often heard as the five digit variety. The transmission starts with a three digit block repeated three times, followed by a count, such as "376 376 376 1234567890". This is sent for several minutes, and is followed by a series of tones. Then the number of message blocks to be sent is give, for example "grupo 87". Then the four digit message blocks begin. The message is terminated with "fin". Four digit numbers stations generally have excellent technical quality. They may be the "real" messages (as opposed to training exercises), or just run by better funded spies!

5-digit Spanish YL
This is by far the most commonly heard type of numbers station in North America. A typical transmission starts with "atencion", then a three digit block and a two digit block, such as "atencion 932 86". The two digit block is always the number of five digit groups later sent as the message. The three digit block is believed to be the recipient. This preamble is sent for several minutes, and then the actual message is sent, as a series of five digit blocks. The transmission ends with the words "final, final". AM modulation is sometimes used, although SSB is also reported. I have heard many stations which seem to be using reduced carrier sideband, with modulation on one of the sidebands, and a lower power carrier, sufficient for reception on AM receivers. These transmissions often have technical problems (poor audio, hum, distortion, sometimes big "accidents" like starting to play the Radio Habana opening music!

4-digit English YL
These transmissions start with a three digit block (presumed to be the recipient number repeated for several minutes. No message length is sent. A 1234567890 count is then heard, often followed by some tones. Then the five digit message blocks begin.

5-digit English YL
These transmissions start with a three digit block (presumed to be the recipient number repeated for several minutes. No message length is sent. Then the five digit message blocks begin. The accent of the female announcers of the five digit stations often varies. Some are distinctly British, some Spanish, others sound American. This may indicate that there are several organizations operating the various stations. Or, as with many "facts" about Numbers Stations, it may mean nothing at all!

Lincolnshire Poacher, 5-digit English YL
This is a variation of the five digit English station. The tune "Lincolnshire Poacher" (which sounds like "Pop Goes The Weasel" is played at the beginning of the transmission. This station is most often heard in Europe and the eastern part of North America. I have often heard it being jammed.

3/2-digit English YL
These transmissions are very similar to the five digit transmissions, except that a distinct pause is heard between the third and fourth digits of each message block. It is not known if this signifies a different encryption system than used in the five digit transmissions.

5-digit German YL
Similar to the five digit German stations described below. Rarely heard (at least in North America).

5-digit German YL
These transmissions often open with tones or some sort of music. Sometimes, a two letter phonetic phrase is heard, such as "Papa Romeo". The preamble opens with "achtung" and a three digit block, generally presumed to be the recipient. (Perhaps it is really the number of the one time pad to be used to decode the message, and the two letter

phonetic sent at the beginning is the recipient. This makes sense to me because the agents would listen at the beginning of the transmission to see if the message is for them.) This is followed by "gruppen" and the number of message blocks to follow. The message closes with "ende". Commonly heard in Europe, and North America. This would tend to indicate a European transmission site. Indeed, several years ago, transmissions were DFed to a then East German location.

3-letter Phonetic (Mossad)
A female voice is used to repeat a three letter phonetic phrase (followed by a number), such as "Papa November Oscar Two". This can go on for hours before a message is sent. The message is generally blocks of phonetic letters. It is believed that Mossad (the Israel Intelligence Service) operates these stations, and they are often referred to as Mossad transmissions.

o Loggings. Sequence: freq/UTC/Sex/language/number of digits/details

6955	1853	SS/YL/5	Opened with "Attencion", ended with "final" twice.
6955	1900	SS/YL/5	same format. 6955 is the notorious pirate freq
6960	2140	SS/EE/5	Ended with three tones, then caliope mx. Sounded like someone was trying to jam it.
3964	0208	EE/YL	Victor Lima Bravo Two MOSSAD, RTTY QRM.
7490	0200	SS/YL/5	"Attencion 584 02", then into msg. Older YL. Then "final" twice, then "Attencion 584 02" rpt
8186	0156	SS/YL/5	Morce Code @0158, then very faint audio for a few mins "Attencion 04499 150", then audio became normal. Young YL. Fidel really needs to get some new equip, this old stuff isn't working too well.
5156	0230	EE/YL/5	in USB sounds like "counting station", end at 0235
4270	0201	EE/YL/5	MOSSAD - alpha phonetic message
6798	0702	SS/YL/5	
5417	0600	SS/YL/5	"Attencion 07900"; "07900...150", very weak
5436	0750		Low pitch polytones, very strong signal

Final ende fin end terminat..... see ya all next month. Don't forget to write ! -Ary-

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The WUN Logs Column

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We have to report that Carl Quick, our recently added member of Team Logs, is apparently in a hospital after suffering chest pains. I have been unable to discover which hospital...I called all of them in his home town.

We all wish Carl a speedy recovery!

But since Carl was almost done working on this months posted logs (last names K-Z) we had to go back and try to find them all. So a few folks may have been left off inadvertently.

A nice variety again this month, although I wish I knew the secret to get more folks to contribute. Out of all our paper edition members, one member, Art Blair, sends logs. From our over 900 electronic edition members, we have 77 contributors this month. Some send 1 log, some send several pages. All are appreciated. Remember, it doesn't have to be rare DX...just what your hearing in your own back-yard can be interesting to others.

We have logs from France, Japan, New Zealand, Canada, Australia, the UK, Netherlands, Germany, U.S., Greece, Italy, Norway, eastern Europe and maybe a few others I missed for this month!

Remember, we try to edit these as close as possible to look for mistakes, but with this volume, a few are bound to slip through. I would appreciate if you would send any needed corrections, ID's, etc, to me rather than posting them over the WUN listserver. I do not read every post over WUN, and not every one to the very end. Someone e-mailed me

as to why a correction sent over WUN never appeared here. It's simple, I never saw it! We would like to provide the most accurate info possible so your help is appreciated.

Alex Wellner down in 'Oz' enjoys the many military callsigns one hears on HF. He sent me some "interesting logs" that you may enjoy:

The lighter side of Military comms.

The following was monitored, on several "discreet" frequencies.

0800Z RAYMOND calling ANDERSON, trying to REACH, HILDA. ANDERSON advises, that HILDA is in Scotland, and refers RAYMOND to MACDILL or MCCLELLAN.

0803Z RAYMOND wkg MACDILL. MACDILL says that HILDA is in PITREVIE CASTLE, but currently OVERSLEEPing.

0915Z MCCLELLAN raises RAYMOND. Says,that HILDA is awake, lying on a BEDSPREAD, with FOOTSORE.It seems, that while she was trying on her FEMA, Fabulously Expensive Morning Attire, she slipped and fell. RAYMOND asks if a glass of ORANGE JUICE might be REMEDIAL? Was told to call later.

1001Z RAYMOND wkg HILDA. Invites her to ASCOT to the races. Promise to pick her up in his SIDECAR. HILDA says, she prefers a limo. RAYMOND then asks her out to BOOMTOWN, where they can build a SANDCASTLE. HILDA says the day maybe a SCORCHER, and will consider. She may want to ride a CABLECAR at Chamonix. RAYMOND is not keen, he is not in a TOPNOTCH condition, and does not want to be RESCUEd.

1023Z SAM2 joins in uninvited. He asks HILDA to come with him, and his pals AUSSIE12 and KIWI1 for a DEERHUNT riding a STALION or maybe go for a BEAR. Brags about his TEAMWORK with the other guys. HILDA remarks, that SAM is not IMMORTAL, and in the past he used to fall off the horses, leaving them RIDERLESS. SAM says that he is quite a DAREDEVIL COWBOY, and not afraid even of a WILDCAT. HILDA remarks,that SAM may be a GIANT KILLER, but he is certainly no ROMEO. SAM gets huffy, says he is ACARS. As Cool As Ronnie Seinfeld. RAYMOND corrects that it should be Jerry Seinfeld. HILDA says,that SAM is COTAM. Clearly Obvious That Absolutely Mad, and severs the connection.

1430Z RAYMOND and HILDA are finally off to a picnic. RAYMOND hires a ROWBOAT On the water they observe a PELICAN, see a FISHAWK, WILD EAGLE and a SWALLOW. They meet a boat with it's MAINSAIL on. Later they feast on MACARONI, smoked TROUT, and a MAGNUM of champaign. They talk about DISNEY movies, the KEYSTONE kops,and the Return of the JEDI. RAYMOND mention, that later that night they could have a NIGHTWATCH, and maybe even spot a MYSTIC STAR or two. He asks HILDA to go dancing. She should wear SESEF, Something Elegant Suit Every Female. HILDA replies, that it would be very BRAVO for her to do the FOXTROT AND TANGO, as she is still FOOTSORE.

2000Z RAYMOND rings HILDA's DOORBELL, returning her PASSPORT and NOTEBOOK which she left in his SIDECAR. As the TWILIGHT turns into NIGHTFALL all they can see in the sky is AF1 looking like a GUNSTAR. HILDA remarks that AF1 is certainly no SKYKING. Shortly she thanks RAYMOND saying the night was like MAGIC. He takes her back to PITREVIE CASTLE

2206z RAYMOND wkg ANDREWS who asks how the day gone with HILDA. He replies, that it was EAM. Expensive And Maddening. ANDREWS remarks, that RAYMOND should have been aware of AWACS, Advance Warning Against Crazy Situations.

2209Z RAYMOND and ANDREWS out.

All the above callsigns/expressions were heard during February by WUN memebers.I hope you like it. Alex

Now on with 'Mega-Logs'....

=CIVIL AERO=

2869 ELITE 725: UTC? USB B757-200/C-FXOK/Calgary to Maui (JSM)

2887 ELITE 313: UTC? USB B757-200/C-FOOG/Mirabel to Puerto Plata. (JSM)

2899 Shanwick, IRE: (NAT-B MWARA) 0525 USB wkg TWA 885 w/posrep. (RB)

2971 Shanwick, IRE: (NAT-B MWARA) 0540 USB wkg American 108 w/posrep, call Shannon 134.62. (RB)

3016 Earl 22 0004 USB wkg Santa Maria w/Radio check. Navy cw540 0119 USB wkg Santa Maria Posn report (AD2) Reach 0DQ2 1000 USB to Lajes. (JP2) Santa Maria: AZR, (NAT-A MWARA) 0547 USB wkg Air France 521 w/posrep,

handoff to VHF 135.77. (RB) Air Portugal 317 0513 USB wkg Shanwick, ARP 46N30W F390. French Line 2468 0213 USB FL-CM wkg Gander/ARP 49N40W F330. Delta 106 0216 USB CD-BS wkg NY/Selcal check. (TO)
3413 EIP: Shannon Volmet: IRE (EU-VOL) 0531 USB w/+30 wx, ID, "this is Shannon Volmet". (RB)
3455 TOKYO ATC Jan 191305Z USB Secondary freq, primary 4666. (DA2) New York: (CAR-B MWARA) 0551 USB att to work Air Transport 506, no joy. (RB)
3476 Canadian 86 0508 USB wkg Shanwick/ARP. Continental 4 0517 USB DL-JM wkg Gander/Selcal check IAH-LGW. Delta 36 0517 USB JM-DL wkg Shanwick/ARP 55N30W F370. Saudia 038 0524 USB AF-JL wkg Gander/ARP 50N40W F310. Swissair 125 0531 USB CL-BE wkg Shanwick/ARP 54N30W F350. Northwest 38 0533 USB CJ-BK wkg Shanwick/ARP 55N30W F330. Olympic 424 0535 USB wkg Shanwick/ARP 54N20W F310. Speedbird 094 0538 USB BD-EF wkg Gander/Selcal check. Singapore 25 0539 USB AK-JL wkg Gander/ARP YQX 0531 F370 50N50W next. Delta 60 0543 USB AH-EG wkg Shanwick/ARP 56N30W F350. American 174 0546 USB BM-GK wkg Shanwick, ARP 54N30W F350. Shamrock 112 0548 USB wkg Gander/ARP 53N20W F390 relaying to Shan. TWA 720 0550 USB AE-GH wkg Gander/Selcal check. Martinair 638 0552 USB JM-DS wkg Shanwick/ARP 53N30W F370 ETA AMS 0850. Aeroflot 318 0553 USB wkg Gander/ARP 52N50W F350 .80. American 50 0600 USB AH-LQ wkg Shanwick/ARP 55N30W F370. Delta 22 0602 USB EQ-AH wkg Gander/Selcal check. United 940 0608 USB AQ-EP wkg Gander/Selcal check. Pakistan 718 0611 USB FL-AH wkg Gander/Selcal check. Delta 20 0220 USB DF-AK wkg Gander/Selcal check. (TO)
3494 New York Arinc: (NA-CC-LDOC) 0639 USB wkg 9M-MDZ also ID'ing as World 971 w/departure time & ETA Philadelphia, Pa, per Tony Orr this is a Malaysia Airlines DC10-30 leased to World. (RB)
4663 Khabarovsk 0720 USB w/wx report. (AW)
5493 Speedbird 057 0046 USB wkg N'djamena R, CHAD/ARP DIR 43 F330 BUNLU 0100. (TO)
5505 SHANNON Volmet 0645 USB Very loud and clear this morning. (HW)
5532 KLM 612 0149 USB wkg KLM Amsterdam LDOC/747-300 PH-BUM w/ETA AMS 0600. KLM 662 0251 USB wkg KLM Amsterdam LDOC/reg. PH-BUH w/ETA AMS 0650. (TO)
5535 Speedbird 173 2102 USB wkg Speedbird London LDOC/flt unable to land JFK due to a/c being CAT-I; JFK only accepting CAT-III, divert to BOS. (TO)
5541 SABENA 5052 0152 USB wkg Stockholm R. LDOC/ARP ADM 0154 F350 ETA BRU 0520 enrt Dakar-BRU A310. (TO)
5547 Honolulu: (CEP-1/2 MWARA) 0527 USB wkg United 388 w/clearance msg, cleared to 360. At 0559 wkg Northwest 936 w/selcal ck, AL-GM (DC10-40 N159US). San Francisco: (CEP-1/2 MWARA) 0528 USB wkg Delta 1977 w/posrep, handoff to VHF freq. At 0558 wkg Orca 37 w/posrep, 131W at 0537, est next & contact Oakland control 134.15. (RB) Philippines 105 0732 USB DS-AF wkg SFO/ARP STORM? F310 39N130W 0754. (TO)
5550 NEW YORK ATC Jan 191244Z USB wkg Air Canada. (DA2) AMW 332 0747 USB wkg New York, to Zurich via 3860 4350 4540 4830 4820 4810 QPR 330 M.80. (HW) VARIG 810 0710 USB CF-LM wkg NY/ARP o/h VAGAN F350 ETA MIA 1033. KLM 744 0715 USB AF-ER wkg NY/ARP GRANN F330 & oceanic clr. Condor 119 0933 USB CM-PS wkg NY/ARP THANK F330. Argentina 1300 0938 USB AD-GP wkg NY/ARP LAMER F390 NOOGY-RIGNY. BOXER 04 2141 USB wkg NY/ARP LETON ETA Grand Turk 2216. (TO) Balair 177 BJCQ 2313 USB ww New York, selcal check. HB-IEE LQKP 2328 USB ww New York, ARP 36N-60W, FL370. N213MC 2332 USB ww New York, ARP Moffy, FL350. Varigi 868 FQGH 2341 USB ww New York, selcal check. Leisure 850 2345 USB ww New York, QSY to freq. 2887. N969HC JSAK 2354 USB ww New York, ARP "Broom", FL390. N600DT 2350 USB ww New York, ARP, FL 410. (WdM)
5565 Recife: (SAM-RDARA) 0515 USB wkg Iberria 6811 w/posrep, flt bound Madrid-Rio. Dakar, SEN: (SAT-2 MWARA) 0533 USB wkg unid flt 3711 w/posrep. (RB)
5574 Qantas 12 0723 USB wkg SFO/Reminder from Ops to turn on bulk cargo heat, two live dogs in hold.... (TO)
5598 AAL 142 2011 USB wkg Shanwick. Shanwick advises to contact Rainbow Radio on 8819/13255: AAL dispatch req outside air temp when leaving fl390 for 370 (BH) Reach 33/35/36 0925 USB 45-40w to 47-50w /FL 160 (C-130s ?). Reach 4X5: 2307 USB 42N-50W to 41N-40W .Never heard a "4X...before. Reach 600 1940 USB Selcal FJ-BM. Titan 82 1025 USB to

Lajes. (JP2) West Indian 900 0515 USB HM-FJ wkg SM/ARP 39N40W F370. Oasis 902 0616 USB wkg SM/ARP 44N30W F330. Delta 22 0000 USB EQ-AC wkg NY/Selcal check. LTU 469 0202 USB CQ-BH wkg NY/ARP 41N50W F310 Registration?. Speedbird 232 0205 USB DF-HK wkg Gander/confirm N at 30W-51N. Speedbird 292 0224 USB BG-KQ wkg NY/ARP CLXTN 09 F370 BRUNZ 0241. Delta 48 0244 USB CK-DE wkg NY/Selcal check. Delta 32 0244 USB EQ-AH wkg Gander/Selcal check. GOLD 61 1000 USB wkg SM/ARP 40N25W F150-210 4317N20W 1115. Lufthansa 8661 0008 USB wkg NY & SM/relaying tfc to FSB108 a B707 on delivery unable to QSY w/SM. They req fuel stop at Lajes but did not have diplo. clear, were told to divert to Santa Maria. Air France 031 0011 USB EK-FH wkg NY/ARP LOUIZ F330. LTU 431 0242 USB AH-BF wkg Gander/Selcal check. Martinair 606 0243 USB BJ-PR wkg NY/ARP 44N50W F350. (TO)

5604 Rainbow Radio 2044 USB wkg Reach 430 w/selcal ck. (JS3)

5616 BH 30289 1100 USB 57-30w to 57-10w. Sam 60202 1740 USB FL 410/Selcal AF-HP/ 53-20W-53-15W. (JP2) BLUE 40 0958 USB wkg Gander/ARP 54N50W F330 .76 56N40W. United 940 0219 USB AQ-BG wkg Gander/Selcal check. (TO)

5634 AIC 216 1901 USB wkg Antanarivo, JM-CK, B-747, VT-EGB, FL330 from Johannesburg to Bombay. MAU 750 1912 USB wkg Antanarivo, to Bombay ctrl. on 5658/3467. Perth 1544 USB clg Mauritius, req wkg freqs, 5634 primary, 8879 secondary. AOM 924 1550 USB wkg Perth, HJ-AF, DC-10, F-BTDE, FL330 selcal check. MAU 740 1537 USB wkg Perth, FL330 8879 is secondary, Mauritius to Hong Kong. (HW) Seychelles Radio 0002 USB wkg Antananarivo R. re Cathay 749. Cathay 749 0003 USB wkg Antanarivo R./ARP MIROV 57 F370 DI 0019. Madagascar 051 0007 USB wkg Antanarivo R./receiving actual Antanarivo R./Ivato wx. Mada 051 0010 USB wkg Antanarivo R./ARP KINAN F350 Moroni 0018 In FR used c/s "Mada". Springbok 283 0012 USB wkg Antanarivo R./ARP GERAG 05 F350 NANTA 0018. Corsair 910 0027 USB CJ-GK wkg Seychelles/ARP TIKAR F370 DENLI 0049. Condor 312 0058 USB CM-QS wkg Seychelles/ARP F370 and Selcal chk. Singapore 406 0005 USB wkg Antanarivo R./ARP NANTA 04 F390 LAKRA 0049. Malaysia 201 0005 USB Clg Antananarivo R here no joy. Springbok 297 0007 USB wkg Antanarivo R./ARP PAKTI 0005 F350 PEDPI 0020. Air Mauritius 039 0053 USB GR-QS wkg Antanarivo R./ARP F370 Vienna-MRU ETA 0315. Air Mauritius 039 0104 USB GR-QS wkg Antanarivo R./ARP UVDOX 0059 F370 ANKOR 0115. Malaysia 203 2226 USB GH-AR wkg Mauritius/ARP F350. Cathay 749 2244 USB AF-C? wkg Seychelles/ARP OKTIR F350 PRA next. Springbok 283 2355 USB CD-AB wkg Antanarivo R./ARP GERAG 54 F350 NANTA 0004 LAKRA 0025 TU 0056 SUNIR 0121. Singapore 406 0021 USB AE-GS wkg Antanarivo R./Selcal check & est NANTA. Singapore 406 0026 USB AE-GS wkg Antanarivo R./ARP NANTA F350 LAKRA 48 TU. Cathay 749 0101 USB wkg Antanarivo R./ARP MG 0100 F350 ETA JNB 0338. Malaysia 203 0104 USB GH-AR wkg Antanarivo R./ARP GERAG F350 NANTA 0114. (TO) Singapore 406 2034 USB clg Mauritius, Perth answered. REACH 6F8Y 2112 USB ww Perth, clrd to FL370. Springbok 288 2116 USB ww Perth, ARP Kalbi-Kabta, FL370. (WdM)

5643 AUCKLAND ATC Feb 100850Z USB wkg US Navy XD02, radio check while on ground (here) at Christchurch. These USN a/c fly between McMurdo (Antarctica) & Christchurch every day during the summer season. AUCKLAND ATC Feb 100910Z USB wkg a/c over Atlanta, GA. (DA2) QFA 44 0640 USB wkg Auckland, FL350 mach .85 to VHF, Auckland to Sydney. ANZ 14 0706 USB wkg Brisbane, a/c req guard on 5643. ANZ 148 0706 USB wkg Brisbane, FL370. QFA 54 0640 USB wkg Brisbane, Selcal check. Brisbane very loud & clear. Squawk Brisbane 2376 to 126.5 Brisbane Ctrl. VH-SVV 0652 USB wkg Brisbane, Selcal'ed several times. Eta Brisbane/0814. At 100 NM to 120.3 Brisbane Flight Service. (HW) Qantas 4 2013 USB ww Brisbane, ARP unreadable. (WdM)

5649 GANDER ATC Feb 121043Z USB wx. (DA2) AFL 317 1930 USB wkg Gander, 5440 5150 350, Moscow to Gander. AFR 001 1940 USB wkg Gander, AKHJ, CONCORDE F-BVFF, SN40 FL520 SN30 SN20, Paris CDG to New York JFK. AFR 6443 1955 USB wkg Gander, 5040 330 5230 5320 5315 BURAK, Toronto to Paris CDG. AFR 6450 2005 USB wkg Gander, 6240 350 6050. AMX 445 2050 USB wkg Gander, BCQR B-767 XA-RKI, 4430 330 4540 4650. BAW 215 1940 USB wkg Gander, 5850 350 PORGY Hopedale, London LHR to Boston. BAW 3 2040 USB wkg Gander, AGEJ CONCORDE G-BOAF, sm30 518 sm40, London LHR to New York JFK. BAW 4 2010 USB wkg Gander, BDCF CONCORDE G-BOAE, sn30 560 sn20 sn15 to 135.6, New York JFK to London LHR. RJA

091 2100 USB wkg Gander, ELAB, 6330 310 6140 OZN. VIR 001 2035 USB wkg Gander, 5850 FL350 PORGY Hopedale, London LHR to New York JFK. VIR 011 1930 USB wkg Gander, 5850 350 PORGY Hopedale, London LGW to Boston. ICE 615 2010 USB wkg Iceland, FQAG B-757 TF-FII, Selcalcheck, Luxembourg to Keflavik. AFB 605 1928 USB wkg Shanwick, BGJP C-130 CH-.., destination is EBMB (Melsbroek). 5330/2020 FL270 5520/2110 5610/2205 MAC/n. AFR 008 1855 USB wkg Shanwick, JKBP B-767 F-GHGH, selcalcheck 6040 310 5850 PORGY, Los Angeles to Paris CDG. AFR 6435 2005 USB wkg Shanwick, EFDK B-747 F-GCBL, 5330 330 5420 5415, Montreal to Paris CDG. AFR 6498 2110 USB wkg Shanwick, FMBL B-747 F-GPAN, 5920 350 6030 6040. AIC 181 1955 USB wkg Shanwick, JMCH B-747 VT-EFJ, 5920 330 6130 6140 5950. AIC 196 1955 USB wkg Shanwick, KMDH, 5320 330 5315 BURAK. ASCOT 5775 1853 USB wkg Shanwick, 15w/1908. BAW 117 1020 USB wkg Shanwick, BEKL B-747 G-AWNG, selcalcheck. BBC 010 1005 USB wkg Shanwick, 5420 370 5415 to 134.62. CLX 778 1025 USB wkg Shanwick, 5820 310 6030 6040. CTM 1086 1002 USB wkg Shanwick, BGAK DC-8 F-RAFF, 5330/1002 370 5320/1040 5215/next. DLH 499 1008 USB wkg Shanwick, 5220 370 5215 DOLIP to 131.15, Mexico City to Frankfurt. DLH 8165 1015 USB wkg Shanwick, FMGH DC-8 D-ADUA, 5330 330 5420 5410. EIN 9123 1940 USB wkg Shanwick, FKAL, FL310 also on 127.9 flight progress relay to EWW. KLM 671 2035 USB wkg Shanwick, DMBE, B-747 PH-BFG, 6010 350 6320 6430, Amsterdam to Montreal. KLM 789 1002 USB wkg Shanwick, FL370, Amsterdam to Bonaire. OOE 857 1940 USB wkg Shanwick, 5820 290 5910 SUM/next to 133.67. SVA 901 1935 USB wkg Shanwick, AJGM DC-8 N812AX, 6130 310 6140 5950 PRAWN MAINE JFK/0050 Relay to New York JFK EWW. TEJ 2463 1000 USB wkg Shanwick, 5720 350 5930 5940. (HW) Alitalia 639 0032 USB FK-EH wkg Gander/ARP 51N50W 0103 Selcal check. KLM 750 0040 USB AF-ES wkg Gander/ARP 4443N4514W F330. Lufthansa 475 0231 USB CG-FL wkg Gander/Selcal check. Air Europe 791 0943 USB JR-AG wkg Shanwick/ARP 51N30W F370. Speedbird 242 0949 USB BP-AG wkg Shanwick/ARP 55N40W F370 MEX-LHR. Ascot 5214 1002 USB wkg Shanwick/ARP 51N20W F260. Speedbird 286 1020 USB BR-AC wkg Shanwick/ARP 61N20W F370. Singapore 26 1032 USB LM-AD wkg Shanwick, ARP 49N30W F350. Air France 061 1034 USB CP-FQ wkg Gander/ARP 59N60W F370. Air France 081 1049 USB wkg Gander/ARP 63N40W F370. Swissair 107 1104 USB AF-HQ wkg Gander/ARP 59N60W F330. Speedbird 268 1120 USB BP-CK wkg Gander/ARP 59N60W F370. Austrian 502 0314 USB BR-HL wkg Shanwick/Selcal check. Air Europa 118 0320 USB HS-GK wkg Shanwick, Selcal check JFK-MAD. Iceair 668 0322 USB LQ-CF wkg Shanwick/Selcal check. Lufthansa 431 0323 USB CG-AF wkg Shanwick/ARP 55N40W F350. Finnair 104 0324 USB DE-CH wkg Shanwick/ARP 56N50W F350. AMY 312 0326 USB CE-MS wkg Gander/ARP 61N50W F330. Air France 023 0330 USB BM-GS wkg Shanwick/Selcal check. Alitalia 611 0333 USB FK-EM wkg Gander/ARP 51N50W F350. (TO) Singapore 7998 ESMR 1602 USB ww Shanwick, ARP 52N-15W, FL 330. Speedbird Conc. 2 1603 USB ww Shanwick, ARP SN 20W, FL 585. Speedbird 297 KMCG 1604 USB ww Shanwick, selcal check. Speedbird 95 1610 USB ww Shanwick, ARP 52N-20W, FL 330. (WdM)
5655 Manila 1535 USB clg MAS 93, nothing heard. SIA 998 1605 USB wkg Singapore, BPKR B-747 9V-SMS, Selcal check, Singapore to Tokyo. (HW)
5658 Khartoum 1715 USB wkg unid a/c w/selcals. (SM) Egyptair 877 0040 USB wkg Khartoum/ARP SML 40 F370 MRW 0109. TRU 702 0114 USB wkg Khartoum/ARP est JU 0142 F280. Kenya 103 0128 USB wkg Cairo/ARP SML 26 F370 A310 FRA-NBO. Air France 460 0133 USB wkg Cairo/ARP ME 29 F330 TOKAR 0140. Swissair 292 0136 USB wkg Nairobi/ARP MLK 32 F370 NAGIR-TESOS. Air France 6502 0148 USB wkg Addis Ababa R/ARP TATGU F370 ORY-Djibouti. DSR 3576 0154 USB wkg Cairo/ARP AVONO 53 F350 KNA 0223. Alitalia 836 0156 USB wkg Cairo/ARP SML 0154 F330 QSY 124.7. IPR 580 0204 USB wkg Cairo/ARP est ALEBA 0210 F330 ME 42 TOKAR 0254, IL-76 HA-TCB enrt Larnaca-Djibouti. Springbok 6216 0207 USB FJ-AB wkg Cairo/ARP MRW 07 F310 Nubar 0236 SML 0240 A300-200F ZS-SDG. Seychelles 007 0212 USB wkg Addis Ababa R/ARP F370 CDG-SEZ. HSA 508 0238 USB wkg Cairo/ARP SML 37 F370 757 enrt LPX-Mombasa. TMA 1157 0240 USB wkg Cairo/ARP B707 Beirut-Bujumbura F330 SML 0245 Nubar 02247 ETA 0605. AIN 955 0003 USB wkg Cairo/ARP F310 SML 03. MKA 144 0123 USB wkg Cairo/ARP est SML 32 req F350. Air Mauritius 037 0128 USB wkg Khartoum/ARP ALEBA 27 F330 ME 47 TOKAR. HSA 510 0128 USB wkg Khartoum/ARP SML 52 MRW 0222 F330 LIMC-Mombasa B757. KLM 569 0134 USB wkg Cairo/ARP EPSIX 18 F310 AVONO 0137 MD11 Dar es Salaam-Amsterdam.

Kenya 101 0137 USB wkg Cairo/ARP SML 34 F370 MRW 0204. TRU 701 0138 USB wkg Cairo/ARP SML 34 F330 MRW 0205. Alitalia 836 0145 USB wkg Cairo/ARP SML 37 F290 Nubar 39. Indonesia 976 2226 USB wkg Bombay/ARP but too much QRM for det. AFM 19 2327 USB wkg Khartoum/ARP SML 2323 F280 Luxor 50. OCT 317 2329 USB wkg Cairo/ARP SML 2336 QSY Cairo VHF. Speedbird 068 2331 USB wkg Khartoum/ARP ANTAX 27 F280. Air France 441 2332 USB wkg Khartoum/ARP SML 32 F350. Lufthansa 574 2338 USB wkg Tripoli/ARP GRT 36 F330 SHATI 2353. Zebra 215 2349 USB wkg Cairo/ARP DC10 Frankfurt-Mombasa SML 48 F330 MRW 15. Caledonian 015 2351 USB wkg Cairo/ARP MRW 37 F310 SML 06. French Line 19 2235 USB wkg Khartoum/ARP Harare-Cairo F350 DC10. Caledonian 015 2236 USB wkg Khartoum/ARP AVONO 2233 F310 KNA 2301. Liberte 195 2321 USB wkg Addis Ababa R/ARP AVUSI F310 QSY 125.1. Air France 6537 0057 USB wkg Khartoum/ARP EPSIX F310. ADB 1009 0125 USB wkg Khartoum/ARP enrt Bourgas-Kinshasa F290 est SML 0139 MRW 0212. Condor 264 0129 USB wkg Nairobi/ARP Malakai F370 TESOS 0213. Kenya 321 0137 USB wkg Khartoum/ARP SML est MRW 0205. Lufthansa 595 0139 USB HJ-EM wkg Cairo/ARP TOKAR F310 ME 0149. N998JB 0207 USB wkg Nairobi/ARP F410 AVONO 0202. (TO) Air Lanka 506 FKAC 2003 USB ww Bombay, ARP Alama, FL370. (WdM)

5667 Nippon 002 0931 USB wkg Honolulu w/posrep, selcal check. (AW)

5670 Medan Radio (Indonesia) 2015 USB wkg Singapore 401, this is the first time I ever heard them on 5670! FL370 MDN (MEDAN) at 2105. The flight was asked to contact Medan on 3470 later. CTM0006 (VIP flight French Air Force) 2020 USB wkg w/Madras Radio re posn KAGLU/2016 FL390. The flight was directed to 5658/3467 Bombay Control. Columbo 1632 USB wkg Medan re info abt. flight ALH 718. (HW) EMIRATES 071 1544 USB w/Lumpur @ "MABIX" (03-15N/94-50E) "CJ-KQ" A6-EKD A-300 Singapore - Male. SINGAPORE 419 1614 USB w/Madras @ "ANOKO" (07-8.2N/94-25E) "GL-DF" N122KH 747-300 Sing-Madras. AIR INDIA 411 1542 USB w/Madras @ "ANOKO" "HK-GM" VT-EJL A310-300. SINGAPORE 338 1614 USB w/Madras @ "ANOKO" "AE-HR" 9V-SMV 747-400 Singapore-Bombay. SINGAPORE 334 1703 USB w/Lumpur @ "TASEK" (05-15.5N/98-18E) "AL-GH" 9V-SMG 747-400 Sing-Paris. SWISSAIR 187: UTC? USB MD-11/HB-IWI/Singapore to Zurich. AIR FRANCE 157: UTC? USB A-340-300/F-GLZF/Singapore to Paris. AIRLANKA 423: UTC? USB A-340/4R-ADA/Bangkok to Colombo (JSM)

6532 Air Mike 967 Charlie 0850 USB wkg Tokyo w/selcal check. (Who is this?) (AW) (Tony Orr sez it's Continental Micronesia -LOGS)

6535 Air Afrique 853 2144 USB CE-FS wkg Dakar/ARP Ouaga-Dakar F280 est TD 2213 YF 2225, this is listed as a Fokker 100 in the OAG!. SABENA 519 2159 USB wkg Dakar/ARP BIMOG 55 F290 ETA Bamako 2245. Iberia 3970 2200 USB wkg Dakar/ARP F280 2201 BIMUT YF 41 this is a 727 Las Palmas-Dakar. Roberts R. LIBERIA 2214 USB wkg Dakar w/tfc rpt re: RK857. (TO)

6556 SPIROW 854 1720 USB w/Ujung Pandang @"MKS" "AR-CH" on the descent into Ambon. LTU 769 1502 USB w/Lumpur @ "SAPAM" (08-5.2N/97-32.7E) "EP-AJ" D-AMUW 757-200 just departed Phuket, Thailand climbing through FL160 for FL310. CATHAY 261 1739 USB w/Calcutta @ "RISKO" (15-24.5N/93-15E) "HJ-CK" VR-HOP 747-400 HK-Paris. CSA 169: UTC? USB A-310-300/OK-WAB/Bangkok to Bahrain (JSM)

6577 Air traffic control for CAR 1520 USB selcal check for SRFS. (MS2) (Tony Orr sez bad selcall as 1st/3rd letters must be lower than 2nd/ 4th, so RS-FS is ok, SR-FS is not -LOGS) New York Arinc: NY, US (CAR-A MWARA) 0520 USB wkg United 979 w/selcal ck. (RB) Boyeros R. CUBA 0204 USB wkg Clg Merida R. no joy. Cubana 461 0810 USB wkg Boyeros/actual Havana wx given. (TO)

6586 Oasis 908 0712 USB CR-EK wkg NY/Selcal check. United 337 2109 USB EG-KS wkg NY/Selcal check est JAINS 2141. Ouaga Radio BURKINA 2110 USB wkg Abidjan w/personal msg re: telephoning "Sal" for the weekend. N290EC 2210 USB AC-ER wkg NY/ARP F410 out of BROOM. (TO)

6604 WSY70: NEW YORK VOLMET Jan 260803Z USB Noisy. (DA2)

6628 New York: (NAT-E) MWARA 0530 USB wkg Air France 237 w/posrep, 23N/50W. (RB) Springbok 201 0720 USB CQ-AS wkg NY/ARP 28N40W F350 30N44W 0750 .85. (TO)

6637 SOUTHERN AIR 873 0503 USB w/Miami "BG-CD" N873SJ DC8-73 (Freighter) just departed Bogota for Miami (JSM) Houston: Universal Radio, Houston, Tx US 0520 USB (NA-OC-LDOC) wkg United 993 w/selcal ck, at 0521 att to work Air Transport 018 who is clg "over New Mexico" but

no joy here for either. (RB) Fine Air 507 0743 USB JK-DE wkg Miami LDOC/Selcal check o/h Cuba. Fine Air 704 0746 USB BL-CH wkg Miami LDOC/enrt MIA-Piarco. United 983 0749 USB wkg Houston LDOC/ARP LINDA 57 F330. (TO)

6646 Unid LDOC: FF aero comms 2343 USB in FF w/wx, caught "scattered"... "dew point" and "dispatch", suspected to be a Canadian LDOC. (RB)

6679 Honolulu VOLMET 1204 USB weak w/air wx. (MS2)

8828 Honolulu Volmet (PAC-VOL) 0700 USB w/H+00 aviation wx. (RB)

8831 KLM 661 1234 USB BK-GJ wkg Gander/ARP 48N30W F310. (TO) LTU900 1347 USB ww Gander, ARP. Olympic 423 DGHJ 1617 USB ww Gander, ARP 52N-30W, FL330. Pakistan 717 1618 USB ww Gander, ARP 53N-40W, FL350. (WdM)

8837 El Al LDOC 2040 USB wkg UNID El Al flight in Hebrew. (TO)

8846 New York: (CAR-B MWARA) 2115 USB wkg American 1384 w/posrep, at 2116 wkg Delta 63 w/posrep, selcal ck BJ-GL, contact NY control 125.92. (RB) F-OHRT 1954 USB wkg Nadi/ARP QSY to 6553 weak no details. Ambar (AMY) 318 2103 USB HS-GR wkg NY/ARP WATRS F310 GRANN-28N60W. Speed-bird 293 1934 USB BP-CG wkg NY/ARP DEENO F370. Canforce 6261 1926 USB GJ-BK wkg NY/ARP LETON F190 NANCE 2000 MOIRE. American 335 2003 USB MP-DQ wkg NY/ARP LETON F350. (TO)

8864 UPS 6083 1227 USB CF-GJ wkg Gander/Selcal check. REACH 4R2 1919 USB wkg Gander/ARP 46N40W F350 45N50W-RAFIN. (TO) KING 33 1256 USB ww Gander, ARP 61N-35W, FL200. American 87 AJKQ 1306 USB ww Gander, ARP 62N-30W, FL330. United 929 AGKS 1311 USB ww Shanwick, selcal check. American 101 1314 USB ww Gander, ARP 50N-30W, FL330. N21AM AHFJ 1317 USB ww Gander, ARP 65N-50W, FL390. Fedex 4 BMER 1322 USB ww Gander, selcal check. Continental 51 EFAC 1326 USB ww Shanwick, selcal check. American 149 1328 USB ww Gander, ARP 52N-30W, FL310. REACH 1191 1330 USB ww Gander, ARP 60N-30W, FL330. American 57 AJBQ 1331 USB ww Gander, ARP 50N-30W, FL310. Delta 107 CDBR 1333 USB ww Gander, selcal check. TROUT 99 1333 USB ww Gander, ARP 59N-30W, FL350. MASH 77 1336 USB ww Gander, ARP 59N-40W, FL350. Delta 41 AKDF 1340 USB ww Gander, ARP 61N-30W, FL350. United 947 JPDH 1342 USB ww Shanwick, selcal check. N334MC 1632 USB ww Shanwick, ARP 58N-30W, FL 370 didn't mention his selcal. (WdM)

8867 Qantas 43 0159 USB wkg Auckland, posrep, selcal DL-BH. (AW) Brisbane: AUS (SP6/7 MWARA) 0725 USB wkg Freedom 948 w/posrep, per Tony Orr this is Freedom Air Int'l w/757 G-BYAF leased from Britannia. Nandi, Fiji: (SP6/7 MWARA) 0729 USB wkg Qantas 11 w/posrep, selcal ck QR-AD, 747-400 VH-OJP. (RB) Korean Air 663 2016 USB AS-BD wkg Nadi/ARP at ENOUS F370 .82. Brisbane Radio 2028 USB wkg QF104 blasting in!!!. Air Van 51 2048 USB EP-DR wkg Nadi/ARP ELPAX? F330. (TO)

8879 AIR MALAWI 164: UTC? USB B737-300/7Q-YKP/Lilongwe to Nairobi (JSM) Monarch 063 1146 USB GK-CF wkg Gander/ARP 51N30W .79 F350. Swissair 110 1159 USB AF-JQ wkg Shanwick/req oceanic clear Track F. Speedbird 213 1200 USB EK-PQ wkg Shanwick/ARP 50N15W. Air France 580 1201 USB JK-AP wkg Shanwick/req oceanic clr. F310 .80. LTU 932 1212 USB AH-BE wkg Gander/ARP 49N30W F330. Condor 192 1222 USB CM-RS wkg Shanwick, req oceanic clearance. Egyptair 2959 2100 USB BJ-AG wkg Shanwick/ARP 45N40W F410 .80. (TO) Virgin 015 1613 USB ww Gander, ARP 51N-40W, FL 330. Swissair 100 DEGJ 1614 USB ww Gander, ARP 49N-30W, FL 350. Martinair 637 CEBS 1615 USB ww Gander, ARP 61N-30W, FL 350. Air France 046 EJAM 1616 USB ww Gander, ARP 52N-30W, FL 350. Lufthansa 8202 FJLM 1621 USB ww Gander, ARP 62N-30W, FL 310. LOT 001 BQCL 1623 USB ww Gander, selcal check. Speedbird 237 BDAG 1623 USB ww Gander, ARP 50N-30W, FL 330. Air France 038 BMJS 1625 USB ww Gander, selcal check. Swissair 124 DEGK 1628 USB ww Gander, ARP 52N-30W, FL 330. (WdM)

8888 Luanda ACC ANGOLA 2114 USB wkg BA1058 w/ARP. (TO)

8891 N763AT 1002 USB wkg Iceland (BH) KOREAN AIR 091 2034 USB KL-CP, wkg Churchill/45N90W F310. NEW ZEALAND 1 2035 USB wkg Baffin/F350. BAFFIN RADIO 2035 USB wkg Churchill info check. NIPPON CARGO 084 2154 USB JK-BM, wkg Baffin /72N142W F330. Canadian 79 3/9/96 1746 USB wkg Iceland ARP 73N/60W F310, request F350. Canadian 79 3/9/96 1754 USB wkg Iceland reporting F350. Baffin Radio 3/9/96 1754 USB wkg Iceland confirming copy of Can. 79 F350. Delta 57 3/9/96 1804 USB wkg Baffin w/posrep. Aeroflot 321 3/9/96 2006 USB wkg Baffin Posrep F330. Nippon Cargo 082 3/9/96 2348 USB wkg Iceland ARP 76N/75WF330. Aeroflot 324 3/10/96 0018 USB wkg Iceland ARP 80N/40W F330. Japan Air 629 3/10/96

0022 USB wkg Iceland ARP 85N/60W F330. Aeroflot 324 3/10/96 0024 USB wkg Iceland ok to F330 from 310. (PT2)

8894 Cotam 0014: 1930 USB from Yamassoukro to Villacoublay. Registration F-RAFI (JP2) AIN 954 0105 USB w/Niamey @ "ENDOK" 3D-AFX DC8-54F destination Libreville (JSM) Air France 7025 0031 USB EJ-AL wkg Niamey/Selcal check. Speedbird 053 0140 USB wkg Niamey/ARP IKTAV 39 F370 ENDOK 51. MTM 124 0143 USB wkg Clg Alger, Niamey informs QSY 124.1. Springbok 233 0043 USB wkg Niamey/ARP Kirmi 32 F330 INISA 0107. Nigeria 803 0132 USB wkg Niamey/ARP AMTES 31 F350 LHR-Lagos. Speedbird 052 0140 USB wkg Niamey/ARP ENDOK 39 F350 IKTAV 0154. Air France 7021 2349 USB wkg Niamey/ARP BUNLU F350 F350 Dirkou. Lufthansa 561 0031 USB BG-DQ wkg Niamey/ARP and selcal check. Speedbird 059 0043 USB wkg Niamey/ARP AMTES F310. Air France 7267 0044 USB wkg Algiers/ARP AMTES F290 NSL 0114. Ghana 750 0116 USB wkg Niamey/ARP F330 ACC-LHR. KLM 590 0117 USB wkg Algiers/ARP AMTES F330 MD11 ACC-AMS. Springbok 227 0205 USB CD-AF wkg Niamey/ARP Kirmi F330 LHR-JNB. Jambo 001 0221 USB AF-BD wkg Niamey/Selcal check for Alliance a/c ZS-SPA 747SP enrt LHR-Entebbe. Mozambique 706 0223 USB wkg Niamey/ARP Maputo-LIS reg. CS-TED. Jambo 001 0231 USB wkg Niamey/ARP ENDOK F370. Air Portugal 238 0239 USB wkg Niamey/ARP Tamanrasset 37 F390 MNA. (TO)

8903 Naha radio 0858 USB wkg several a/c, selcal checks. (AW) VR-CJJ 2104 USB wkg Kinshasa (???, info welcome!) position (BH) MKA 114 0136 USB w/Kano @ "AMKOR" (07-46N/9-06E) DC8 Freighter departed Libreville. MKA 222 2239 USB w/Brazzaville @ "ONTAR" "JK-BM" 9G-MKD DC8F Capetown-Libreville. AFM 01: UTC? USB DC8 freighter/Z-WMJ/Harare to Kano. AIN 813: UTC? USB DC8 freighter/3D-AFR/Capetown to Lagos. (JSM) Speedbird 057 0032 USB wkg N'djamena R, CHAD/ARP ENDOK 30 F290 DIR 0047 BUNLU. Springbok 234 0042 USB wkg N'djamena R, CHAD/ARP UMOSA F350 MEKAL 50 FL 0110. Springbok 239 0043 USB wkg N'djamena R, CHAD/ARP EBIMU 43 F330 DELIS 0059. Springbok 251 0049 USB wkg N'djamena R, CHAD/ARP INISA 45 F370 DELIS 0102. Lufthansa 568 0106 USB wkg N'djamena R, CHAD/ARP a/b FRA 2113 ETA JNB 0708. KLM 593 0108 USB EH-BK wkg Brazzaville R./ARP MEKAL 06 F330 MOTET 21. Mozambique 707 0111 USB wkg Brazzaville R./ARP BOSSA F330 MPK 0128. Aeroflot 462 2026 USB wkg N'djamena R, CHAD/ARP enroute Lome-Malta F290. Air Afrique 856 2033 USB wkg Brazzaville R./ARP Douala-Brazza A300 est MISTI 2052 and ETA 2156 now at F220. Air France 7021 2034 USB wkg Brazzaville R./ARP MOROS F350 BT at 44. Springbok 248 2106 USB wkg Luanda/ARP BUGRO 2103 F310 VVL 2149. Nigeria 951 2107 USB wkg Kano/ARP F350 ANKOR reg. 5N-AUF A310. D2-ECB 2112 USB wkg Luanda/Brazzaville R./ARP ARAKI F450 Gulfstream 3 Gov't of Angola. Lina-Congo 888 2119 USB wkg Libreville/My old friends the Air Gabon Fokker F.28's are back! Enrt Libreville-Pointe Noire est LB 2115 Tchibanga 2150 departure 2113 ETA 2206 F250 climbing F270. Speedbird 1058 2125 USB EQ-CD wkg Luanda/ARP F310 ILDIR 2123 CPT-LHR. Speedbird 056 2136 USB wkg Kinshasa/ARP TENKA F310 EDUSA-PISPA. Springbok 232 2147 USB wkg Luanda/ARP CPT-LHR F350 ANVAG 2151. Cameroun 788 2152 USB wkg Brazzaville R./ARP estimates garbled but caught reg. TJ-CBA B737-200. Namibia 663 2156 USB wkg Kinshasa/ARP Windhoek-Frankfurt F370 est BUDEL 2206 a/b Kinshasa 16. Ethiopian 950 2230 USB wkg Kano/ARP Lagos-Kinshasa departed 2224 req F370 757 reg. ET-AKF. Lufthansa 573 2235 USB EM-AL wkg Kinshasa/ARP KIBRO F350 KIN 2250. Mozambique 706 2236 USB wkg Kinshasa/ARP TENKA 29 F350 EDUSA. Air Gabon 606 2249 USB wkg Kano/ARP Libreville-Marseille F360 reg. F-BPVU 747-100. Springbok 201 2253 USB wkg Luanda/ARP CC 54 F350 SP 2319. Springbok 274 2256 USB wkg Brazzaville R./ARP VONTI 2256 F350 CF 2309. Air Maroc 280 2322 USB wkg Kinshasa/ARP F390 est DOMSA 2337. Cameroun 789 2355 USB wkg N'djamena R, CHAD/now out of Garoua 2350 w/changed flight number dest NDJ. AGAR 94 2007 USB wkg Clg Luanda here, Luanda responded but a/c could not hear them. Angola 520B 2013 USB wkg Brazzaville R./ARP enrt Luanda-Pointe Noire F100 ETA 2206. Speedbird 056 2046 USB BP-CM wkg Kinshasa/Selcal check. Springbok 274 2052 USB FM-AJ wkg Kinshasa/ARP BUGRO F350 reg. ZS-SPE 747SP enrt JNB-ZRH ETA 0515. Namibia 663 2055 USB wkg Luanda/ARP abeam VNL F370. Speedbird 1058 2110 USB BR-AD wkg Kinshasa/ARP ILDIR F310. Springbok 248 2121 USB wkg Luanda/ARP F350 BUGRO reg. ZS-SPC. G-BFAN 2126 USB wkg Kano/ARP airborne Cotonou 2050 F330 dest. Kinshasa. Air Afrique

856 2128 USB wkg Brazzaville R./ARP Douala-Brazza MISTI 2155. Nigeria 950 2134 USB AG-CH wkg Brazzaville R./ARP Lagos-Kinshasa F290 reg. 5N-ANY LV est 2217 BZ 2322. Lufthansa 573 2207 USB wkg Kinshasa/ARP F350 reg. D-ABVN 747-400. HTT 021 2210 USB wkg N'djamena R, CHAD/ARP F330 IKTAV 2204 ENDOK 2216 ETA N'Djamena dest. 2340. B707 enrt Ostende. Leased from whom?. Springbok 3250 2215 USB wkg Luanda/ARP VVL F310 ANUBI 2304. Alitalia 837 2226 USB FK-DL wkg Kinshasa/ARP F350 JNB-FCO. Angola 658 2228 USB CF-DJ wkg Luanda/ARP ERAKI F310 then QSY Brazza enrt Luanda-Lisboa L15 CS-TEC. Speedbird 054 2231 USB BR-AH wkg Kinshasa/ARP KENTU F310 JNB-LHR. Maiduguri Aer. 2256 USB wkg N'djamena R, CHAD re tfc rpt KL598 QSY VHF. Gabon 606 2308 USB wkg Kano/ARP F350 est Kano 0002 enrt Libreville-Marseille. Cameroun 789 2311 USB wkg Brazzaville R./ARP dept. Garoua 2303 ETA Douala 0125. SABENA 556 2316 USB wkg N'djamena R, CHAD/ARP TJN F310 est TJR 24. Garoua Aeradio 2323 USB wkg Copy tfc from N'Djamena & Brazzaville R. Zimbabwe 724 2328 USB wkg Kinshasa/ARP F310 est UPARA 38. Speed-bird 057 2328 USB wkg Kinshasa/ARP TARAT F330 reg. G-BNLO. Swissair 286 2337 USB AF-HQ wkg N'djamena R, CHAD/ARP ENDOK F330 ZRH-JNB MD11. KLM 598 2339 USB EH-BK wkg Niamey/ARP est DELIS 2349 F350. Springbok 239 0035 USB wkg Kinshasa/ARP INISA F330. Speedbird 055 0143 USB wkg Brazzaville R./ARP ENDOK F330 DIR 59 BUNLU. Speedbird 053 0145 USB wkg Brazzaville R./ARP F370 LHR-HRE reg. G-BNLA. Springbok 255 0148 USB wkg N'djamena R, CHAD/ARP TJN F330 MOTET 0202. REACH 102SE 0253 USB wkg Brazzaville R./ARP at 10S10E F350 FHAW next enrt FYWH-FHAW C-141 reg. 60207 a/b Windhoek 2245 ETA 0336. Brazzaville R. did not understand that FHAW was dest. & kept asking 102SE to say point of entry into Brazzaville R./Accra FIR. Finally 102SE cut it off, yet Brazzaville R. cont'd to call flight for the next 15 mins!. 102SE was outside of Brazzaville R.'s FIR & was originally attempting QSY w/Accra. Austrian 531 0300 USB wkg N'djamena R, CHAD/ARP FLU F330. Sudan 422 0309 USB wkg N'djamena R, CHAD/ARP F350 GNA 0328 A310 F-GKTD enrt Khartoum-Kano ETA 0526. Nigeria 951 0334 USB wkg Libreville/ARP F310 est ERAGA 37. 9Q-CKK 0346 USB wkg Kinshasa/ARP dep Kisangani 0339 F330 enrt to Goma 707-300B of Express Cargo. Goma Aeradio 0348 USB wkg Receiving tfc rpt re: 9Q-CKK from Kin. Kisangani Aeradio 0400 USB wkg ADB 1009 est BUT 0412 KGI 0457 F290 missed registration number!!! (TO)

8906 REACH 200 1520 USB wkg Santa Maria (civil) 41n 40w 1247 fl310, 42n 50w 1344, 42n 60w req fl350 (BH) Navy JT 510: 1610 USB 45N-40W to 48N-50W, w/ Santa Maria (JP2) OTIS ?1(81?) 1758 USB wkg New York, posn 34/55 next reporting time 1828z. I show this as a KC-130 Marines out of Cherry Point. (KM2) Cubana 471 1946 USB BJ-HL wkg NY/Selcal check DC10-30 of AOM. REACH 50227 2008 USB wkg SM/ARP MIKE F280 Flores-Graciosa. SPAR 19 1932 USB wkg NY/routing is HENCH-BDA-A513-JAINS-A700-HOBIE-AR6-MCO-direct MCF dest. Had selcal but just missed the code!. CASEY 01 2005 USB wkg NY/ARP 40N60W F310-JOBOC-LENDT. AIH 978 2141 USB KS-BL wkg Shanwick/ARP est BEGAS 2228 F310 .78 req oceanic clearance. (TO) Air France 580 1212 USB ww Shanwick, ARP 46N-08W, FL310. Caledonian 77 1216 USB ww Sta.Maria, ARP 44N-30W, FL310. Alitalia 85 FKGS 1228 USB ww Sta.Maria, ARP 44N-13W, FL330. Viasa 708 1238 USB ww Shanwick, ARP 48N-08W, req clrnc. Air Europa 770 CSHP 1245 USB ww Shanwick, ARP 46N-08W, FL330. KLM 742 1345 USB ww Shanwick, ARP 48N-20W, FL370. Transworld 901 GLBE 1352 USB ww Sta.Maria, est 35N-15W/1428. Transworld 903 DJAF 1353 USB ww Gander, ARP 45N-30W, FL390. West Indien 985 CDAJ 1357 USB ww Sta.Maria, ARP 41N-15W, FL 330. Dominicana 332 HJAB 1359 USB ww Shanwick, ARP 46N-08W, FL290. Air Europa 702 1734 USB ww Shanwick, ARP 48N-20W, FL 330. Iberia 6171 AGBC 1736 USB ww New York, ARP 42N-60W, FL 330. (WdM)

8909 Indair 108 JPHK 1512 USB ww Bombay, dep Bangalore/1500, climbing FL 280, est. BBM/1537 eta Bombay/1613. (WdM)

8930 DAL 30 0958 USB wkg Stockholm (Boeing 767, N172DN) departure msg out of Moscow, selcal EQ-AC. HZ-MAJ 1000 USB wkg Stockholm (Bac.111) ground test from Stansted (BH) Dominicana 2435 1948 USB AG-FH wkg Stockholm LDOC/enrt HDDK-MDPC req pp to AOM Ops at Paris-ORY, this is AOM DC10-30 F-ODLX. (TO)

8933 ZS-LXH 2150 USB wkg Springbok JNB LDOC/req relay of current posn (unreadable) to ops at #40360306 enrt Sal-Kin. THY 581 1935 USB wkg

NY ARINC/req pp to Turkish ops JFK. (TO)
8942 Qantas 77 0900 USB wkg Honolulu w/posrep. (AW)
8957 EIP: SHANNON VOLMET Feb 040905Z USB Strong. (DA2)
8994 N 800DA: 1740 USB HS-125 going to Niamey (JP2)
9003 Royal Jordanian LDOC 1745 USB QSY 13225. (ANEE)
10051 Gander Volmet: NF, CAN (NAT-VOL) 2122 USB w/H+20 aviation wx for Montreal, Toronto, Ottawa, others. (RB)
11300 7-OADC: 1600 USB from Ryadh to Mombasa, told to contact SANAA on 7595 N522AC: 1600 USB to point "KNA" (JP2)
11342 ARINC HONOLULU Feb 100511Z USB wkg World 271 & World Dispatch. Problem w/ #1 engine, diverting to Taipei. (DA2)
11345 Martinair MCN 15-02-96 0855 USB at Istanbul, Boeing 747-228F freight a/c, ETA Amsterdam 1203, pp w/company ops. Condor ED 15-02-96 0940 USB Unid posn, Boeing 737-35B, also ID's as Germania ED, selcal check w/Stockholm, selcal HJDP (listed is HJBP, must have switched s/c w/ D-AGEE). Polet Aviakompania 9222 15-02-96 0935 USB Unid posn, presumed Antonov or Yakovlev freighter from Polet Aviakompania in Voronezh, Russia, pp via Stockholm Radio to 3832214190 (where is that ?). American Airlines 136 15-02-96 1019 USB at Glasgow, receiving msg from company via Stockholm Radio: "now re-released by company from Glasgow to London-Heathrow, London-Gatwick as alternate". Cyprus Airways 327 15-02-96 1016 USB now airborne from London-Heathrow to Larnaca, selcal check HQLS. Ariana Afghan Airlines 704 15-02-96 1033 USB at Asqabat, pp through Stockholm Radio to operations about not getting fuel, operations replied: "We are going to be in touch w/ Asqabat until the fuel is in the a/c", crew should return to hotel later today and come back tomorrow for departure. (MS)
11387 VLS: Sydney radio 0800 USB Volmet wx. (AW) Same 2130 USB Excellent signal (LB)
13261 Brisbane 0119 USB wkg Qantas 25, posrep & selcal check. (AW)
13270 VFG: Gander, NF, CAN 2050 USB wx. (AB2)
13300 Honolulu 0125 USB wkg Northwest 25, posrep. (AW) Reach 407P: 1415 USB to Ramstein, will talk about his cargo in UHF only (....) (JP2)
13304 El-Al Tel Aviv LDOC 1105 USB w/flt enrt Chicago to Amsterdam. (ANEE)
13306 ASCOT 5629 1558 USB wkg New York (C-130) (BH) TWA 881 1911 USB AD-KL wkg NY/ARP 41N40W F370 ETA JFK 2330. (TO)
13330 ATN 502: UTC? USB DC8 freighter /N735PL/Chile to Florida (JSM)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. (This is to save space, not as a statement of correctness -ed).

122.5 CFH: CF Halifax NS, CAN 0224 75/85 w/CWHF wx data. (RM)
293 Unid: 0251 UNID 200.3/85 unid TP sys. (RM)
297 Unid: 0255 UNID 100/51 unid TP sys. (RM)
311 Unid: 0304 UNID 200.3/97 unid TP sys. (RM)
1753.5 OST: Oostende Radio 2100 ARQ till 2200, also FEC (ANEE)
1882.5 Unid: 0145 ARQ unid stations transferring files (ANEE)
1920.5 Unid: 0145 ARQ unid very weak qsx for 1882.5? (ANEE)
1923.3 Unid: 2100 ARQ-E3 192 French Military (ANEE)
2021 Unid: 1918 FSK 300bd/150 DGPS info, ACF=10 (MC)
2208.8 Unid: 1923 PSK 2400bps UNID System (MC)
2276.3 Unid: 0200 ARQ-M2 200 weak unid station (ANEE)
2461.5 44***:Irish Navy 2157 ARQ 5LGs "priority" & p/text "routine" MSGs. (MC)
2550.5 UNID: 2242 ARQ-E 96/170 8CRC Idling "7betas 1rq". (DW)
2584.1 MTI: Royal Navy, Plymouth 1636 VFT 75bd/400 Baudot, CARB "02 02a mti" on highest ch. (MC)
2634.5 Unid: 1817 QPSK 250bps 2s/2s duty cycle, DGPS info (MC)
2789 FUE: FN Brest 2132 RTTY 75bd/850 Baudot, "de fue fue fue testing ry's sg's 1. " (MC)
2822 DHN37: Grengel Meteo, G 2137 RTTY 100b/400, TAF & METAR rpts for German stns (MC)
3124.9 Unid: 2026 AUTOSPEC 68.5bd/85 no sync possible on 0, 10, 10, 50 spread (MC)
3171.5 Unid: 0110 ASCII 300/170 encrypted. (RM)
3172.5 IMB1: Rome meteo 1910 RTTY 50 wx (BvR) Same 2258 w/wx tfc. (DG)
3177.2 UNID: 2100 RTTY 50b/270 "RYRYRY VZCZC QJH VECCYFYX NNNN". (JJ2)

3230.3 Unid: 1025 RTTY 75/850 KAWN meteo (SS)
3232 AFS USAF Elkhorn 0111 FAX polar projection map of W. Hemisphere (LB)
3267.5 Guardia Civil, Sevilla 0215 ARQ (ANEE)
3282.2 Interpol Spain 2100 FEC 100Bd/300Hz msg to: P.Cont w/APB's. (JJ2) [suppose to be Portuguese State Police? -LOGS]
3451.5 "26": Irish Navy 0422 ARQ 5lg's w/line #'s, EE op chatter. (ED) OA: Irish Military, Dublin, IRE 0707 ARQ wkg unid w/ack of msgs being sent. (RB)
3542.8 GKE1: Portishead R., G 0217 CW w/ID mkr + ARQ phasing sig.. (RM)
3548 Unid: 0215 RTTY 50 poss Ankara Meteo, new freq? (ANEE)
3555 Unid: commercial signal UTC? MODE? Very strong into this location (NE U.S.) baud rate seems to be 191 with a 250Hz shift. My Hoka Code 3 can't handle it. (RC2)
3587.4 Unid: 1900 ARQ (ANEE)
3588.5 Guardia Civil Mahon, Menorca Island 1900 ARQ (ANEE)
3593.8 Unid: 0230 PACTOR 200 (ANEE)
3602.8 Unid: 0230 PACKET 300 French fig gateway-bbs 0230 (ANEE)
3621.9 Unid: 0230 PACTOR 200 (ANEE)
3630.7 Unid: 0630 CLOVER poss. Croatian Army? (ANEE)
3667.2 Unid: 0230 ARQ-E 46.1 Egyptian NOTAMS. UNID: 0057 ARQ-E 46.1/170 4CRC Tfc on the hour KAA50011 serial appears decrementing but will be incrementing if Arabic. (DW)
3774 MOI Paris 2000 ARQ-E3 100 tfc til 0430 (ANEE)
3774.0 Unid: 1830 ARQ-E3 100 MOI Paris? idle, no traffic til 0400. (ANEE)
3903.7 D7FS 1645-1800 RTTY 50/950 ryry de D7FS (DG)
3908.2 MSF***: Irish Forces? 1735 Clover CW ID "de msf" other stn "de m??n3" (MC)
4007 Unid: 0630 ARQ-E3 192 (ANEE)
4009.5 NNN0TDR: as NCS Navy MARS Ohio net 2220 RTTY 75/170 admin tfc. (RB)
4011 NNN0LTC: as NCS Navy MARS net 2222 RTTY 75/170 admin tfc. (RB)
4018.3 Unid: BGS Bundesgren Zschult 0335 FEC-A -z,Germany? 96/85. (RB)
4018.5 YRR4: Bucharest Meteo, ROU 0325 RTTY in 50/425 AAXX meteo reports. (RB)
4023.7 Unid: 1925 VFT 2ch of 100bd/200 UNID FSK System, ALE? (MC)
4024.7 Unid: 1926 VFT 2ch of 100bd/200 UNID FSK System, ALE? (MC)
4025.5 MFA Warsaw: POL 0339 POL-ARQ 100/425. (RB)
4032.5 AAR2AA: Air Force MARS net 2228 FEC wkg AAR2HD, 2IM, 2BF, 2UX, 2HG, 2JE in regional net. (RB)
4063.7 Unid: 1800 ARQ Spanish army? til 0600 selcall ximb is a base in Santander, selcall akpz is a convoy. (ANEE)
4072 Unid: 1618 PSK 2400bps UNID System (MC)
4081.5 Unid: RUS 2149 36-50 36bd/200 idle on 36bd reversals (MC)
4090 UNO Zagreb 0620 ARQ eng nx (BvR)
4160 Unid: 0041 UNID 110/170 u/i TP sys (RM)
4172.5 3FUB5: MV FAIRY QUEEN 0530 ARQ w/amver/sp maiden voyage! login 71070 3FUB5. (WT)
4173.5 WLDF: SS ARCO SAG RIVER 0616 ARQ w/tlx login: 10670 WLDF (WT)
4174.5 CNCK: M/V Saad 0506 ARQ w/tlx re ETA Lisbon. (RB)
4175 3FYE3: MSC DOMINIQUE 0653 ARQ w/tlx etd Miami. (WT)
4177 YLBO: TK Dizhon Rids 0639 ARQ tanker, w/"TD-1" report to LSC Tanker Dept, ETA Rotterdam, login 60640 YLBO. 3FUV3: M/T Nereo 0703 ARQ w/AMVER/SP via WLO. WRGL: SS Trinity 0706 ARQ w/AMVER/FR via WLO. (RB)
4178 J8IP9: Antwerp Express 0713 ARQ w/tlx re delay due to bad wx. (RB)
4178.5 WRYW: President Adams 0331 ARQ posrep, 37.32N/122.40W. (AB2) LAEY4: CONSENSUS MANITOU 0634 ARQ w/tlx ex-federal manitou? login: 21528 LAEY4. (WT)
4179 3EJO9: MSC Maria Laura 2354 USB w/AMVER/FR, vsl bound Wilmington, Charleston, Miami, Nola, & Houston. (RB)
4181.5 ELFV4: Nordertor 0619 ARQ w/tlx to "base Yotoritmo". (RB)
4203.5 J8FY5: Unid vsl 0634 ARQ w/tlx re departed Sczcecin, status of holds. PGQY: M/V Parkhaven 0656 ARQ w/discharge report tlx, ETA Steepbank, login 29430 PHAVEN. N/A: M/V Continental Beta 0705 ARQ w/posn to LSC Dry Cargo, 5412N/00525E, ETA Goteborg. N/A: M/V Guder 0723 ARQ w/tlx re crew matters via SAB, login 26676 GUDER. (RB)
4206 UYOQ: TKH Rostov 2325 ARQ w/login, 55246 UYOQ after sending selcall KYVV (UGC, St Petersburg Radio). (RB)
4210 KFS: San Francisco Radio 0544 FEC KFS Sending TELEX TIMES. At 0646,

FEC KFS Sending MEBA Information. (MES)
4212.5 WOO: Ocean Gate R., NJ 0046 FEC wx. FFT21: St. Lys R., F 0051 CW ID mkr + ARQ phasing sig. (RM)
4214.5 VAI: CCG Vancouver BC, CAN 0234 FEC w/Meteo at 0200 start. (DF)
4215 WLO: Mobile Radio AL, US 0239 ARQ w/sitor free signal. (DF) Same, 0053 ARQ w/wx. (RM)
4215.5 WOM: Ft. Lauderdale R., FL 0055 FEC wx (RM)
4232 FUF: FN Fort de France, MRT 0056 RTTY 75/850 ry sg 10c w/o ID (RM)
4570 HZN46: Jeddah Meteo 1817 RTTY 100 wx (BvR)
4583 DDK2: Pinneberg R., D 0347 RTTY 50/400 coded wx (RM)
4601.5 OA: Irish Navy 1930 ARQ wkg PT-14 till 1945. Also FEC/100. (ANEE) Same, 0832 ARQ Opr ex "OA" and ~3 11" ?" "zbz4-5 and qru's. Still on f22 as notels on board yet". At 0859 selcals CVVD, no response. Selcals CVVI. Wx forecast for Irish waters (in sitor/B) then BBC shipping forecast. "141 de 11 int qslwx". (DW)
4610 GFA22: Bracknell Meteo 2214 FAX. Ice charts. (LB)
4641 Unid: German MFA? 1615 228.7bd/170 MERLIN (MC)
4643 Unid: 2121 FSK 150bd/850 UNID FSK System, M:S=1:1, synch, cont (MC)
4643.9 RFLIGA: NAVY CAYENNE, GUF 0200 ARQ-E 192/170 CdeV + idle (SS)
4647.9 Unid: 2157 UNID 300bd/200 Packet-like, ACF=10, DGPS info (MC)
4847.8 Unid: 0630 ARQ-E 51 sure wish i knew who ran these 50-51 baud ones (ANEE)
4853.3 NPM Hawaii 0052 FAX ? polar projection map-poor (LB)
4855 NHF: Usn Roosevelt Roads 0611 FAX 120/576 wx chrt (BvR)
4901.7 MFA Cairo 1800 ARQ MOI circulars (ANEE)
4924.4 Unid: 1346 ARQ several guys (hams?) trying to set up a "232" for data transmission; repeated attempts to send; even tried AMTOR mode; used SELCAL "ACAF" at one point; not a MARS channel in my book. The unit is probably a PK-232m, a ham gadget (note use of LSB). (MS2)
4990.4 Unid: 1732 RTTY 75bd/400 AAXX and TAF meteo rpts (MC)
5071.6 RFFA: MoD Paris, F 0535 ARQ-E3 192/425 idling. (RB)
5097 CFH: Halfax Military, NS, CAN 2332 RTTY 75/850 coded meteo. (AB2) Same, 0529 w/NAWS marker. (RB)
5099.7 RFTJ: French Forces, Dakar, 0526 ARQ-E3 Sen, 192/425 idling, should be circuit AFL to Paris. (RB)
5111.7 Unid: 1747 FSK 75bd/80 async continuous, no ACF, NATO CRATT? (MC)
5117.5 TYE: ASECNA Cotonou, BEN 0524 ARQ-M2 96/425 idling. (RB)
5121 Unid: 0745 ARQ-E 192 on an hour later than normal today-also no 96n here for awhile. (ANEE)
5154 ICRC ? LOC 1637 PACTOR End of tfc in EE. Signed Bonefield/ Boudreauhrono then off air. (DW)
5158.5 Unid: 0519 ARQ idling in receive & off. (RB)
5164.4 FRENCH PREFECTURES NET 0816 ARQ Monitor to disc. Testing of various stations FIT518/536/537/545. Mention of "sdti" and "fichier.doc Word 6.0". Also "essai" (trying, testing). New selcal BEDO. (DW) FIT537: French Prefecture 0734 ARQ MSGs abt road condx to FIT18 (selcal BOCH) (MC)
5221.3 Unid: 0510 ARQ-E 72/425 Idling, RFFGFCA?. (RB)
5222 TYE: ASECNA Cotonou Benin 0654 RTTY 50/380. RY's & Ident. Unlisted channel. (PS)
5252.7 Unid: 2026 VFT: 2ch of 100bd/200 UNID FSK System, ALE? (MC)
5253 V5G***: Romanian MFA,Bucharest 2107 ROU-FEC 164.5bd/400 MSGs to Strasbourg after ":::::" (MC)
5253.7 Unid: 2025 VFT: 2ch of 100bd/200 UNID FSK System, ALE? (MC)
5287.5 Guardia Civil Palencia UTC? ARQ (not Valencia). (ANEE) Guardia-Civil Valencia (tent) 0715 ARQ 100Bd/170Hz traffic. (JJ2)
5291.5 Unid: 2115 VFT: 3ch of Piccolo, all ch idle (MC)
5299 Unid: 1556 MERLIN 228.7bd/170 (MC)
5310 Unid: RUS 2122 81-81 81bd/250 tfc (MC)
5320.5 Guardia Civil Albacete, Guadalajara UTC? ARQ. (ANEE) EHM5: Guardia Civil, JECOR Albacete, E 0633 ARQ 100/425 sending selcal & tfc for TYME, JESUBSTRA Madrid; at 0720 TXXX for Jebhelma II; & at 0750 w/TYMT for JECOR Toledo. (RB)
5322 Unid: RUS 1756 81-81 81bd/200 tfc (MC)
5346 Unid: RUS 1633 81-81 81bd/200 tfc (MC)
5354.5 Unid: 1800 ARQ tfc til 1830. (ANEE)
5355 RND77: MOSCOW MET 1920 FAX 90/576 Chart end showing India, SE Asia & W Pacific. (DW)

5377.5 Guardia Civil Valdemoro (HQ) 1645 ARQ wkg JECOR Guipuzcoa 1645 (jecor=jefe coronel) (guardia 4 mhz and up are all 0600-1800, 3mhz & below are 1800-0600) (ANEE)
5385 Unid: 1930 ARQ (ANEE) (cud be USN NAVMARCORMARS -LOGS)
5397.7 RFFP: MoD Paris, F 0502 ARQ-M2 200/425 idling. (RB)
5418.5 Unid: 0715 ASCII encrypted ascii 110. What is the difference between ira-arq and ascii anyway? (ANEE)
5438 Unid: RUS 1800 36-50 50bd/200 tfc (MC)
5456 Unid: 0745 ARQ tfc til 0815. (ANEE)
5477.4 HGX21: Hungarian MFA, Budapest 0741 ARTRAC 125bd/170 NX in Hungarian (MC)
5486 MFA Budapest 0645 DUP-ARQ 125 (ANEE)
5722.5 Unid: German Diplo? 0800 ARQ-E 85.7bd/170/4/I crypto (MC)
5731 Romanian Met Service RTTY 75b w/synop (SM)
5732.5 Unid: 0630 ARQ-E 72 new French MIL link. At 1630, French Military, probably internal circuit til 0500 no tfc (ANEE)
5744 OMZ66: Czech MFA, Prague 0709 RTTY 100bd/500 MSGs and ident keyed on mark tone "de omz66" (MC)
5745.7 EGI Berne 1930 ARQ wkg EGI Teheran or EGI Cairo (ANEE)
5773.2 MFA Berne 0815 ARQ tfc to Warsaw & Tel Aviv. (ANEE) HBD20/6: Swiss MFA, Berne 0733 ARQ clg "BMZY" (UNID Swiss Embassy) (MC)
5774.5 Unid: 0380 ARQ idle (ANEE)
5777.2 Unid: 0815 ARQ poss. UNO (ANEE) (prior logs here of UNO in HC-ARQ -LOGS)
5790 Unid: Polish MFA,Paris 1622 POL-ARQ 100bd/250/5/E Claris msgs "wjslij: paryz" (MC)
5795.5 Unid: 1624 Piccolo-12 crypto tfc (MC)
5840 6XM8: BND,Germany 1905 ARQ-E 288bd/195/8/I crypto tfc (MC)
5852.7 Unid: 0735 PSK 2400bps UNID System (MC)
5879.7 RFFA: 0000 ARQ-E3 192 w/tfc to RFLI til 0930. New sked used to be off at 0730 (ANEE)
6223.3 Rig Percy Johns 1953 ARQ personnel list to Noble Drilling West Africa Ltd Port Hartcort (BvR) (interesting snag! -LOGS)
6263 C6IF3: M/V LEON 0704 ARQ w/tlx login 29260 C6IF3 (WT)
6264 LYDF: Pakruoyis (per ITU) 0627 RTTY in 50/170 RYRY/DE to LYK, no joy. (RB) KQ2XVJ2: 0120/1850 ARQ rx only login 10942 KQ2XVJ2?? (WT)
6267.5 3ESE9: M/S Sensation 0157 ARQ Carnival Cruise Lines 70,367 GWT cruiseship, w/tlx to T/SS Seabrezze. OULQ2: M/V Christina C. 0444 ARQ w/tlx in unid lang, login 03988 OULQ. (RB) OVTX2: M/V KIS SOBYE 0224 ARQ w/tlx login: 05161 OVTX. Unid: 0519 ARQ qru/qru login 29298 SPIRIT. ZCUX: M/V REPULSE BAY 0729 ARQ w/tlx's login 48696 ZCUX. (WT)
6269 P3UQ2: M/V Ptolemeos 0448 ARQ cargo vsl, w/tlx to Sea Adventure, Athens. (RB) P3UQ2: M/V PTOLEMEOS 0449 ARQ w/tlx login 00536 P3UQ2 (WT)
6270 V2KS: M/V Esteturm 1406 ARQ w/tlx in GG, login 76077 V2KS. (RB)
6270.5 SYZQ: M/V Samos 0311 ARQ w/tlx re arrival Sab Francisco. (RB)
6271 LXSA: M/V Sombeke 0731 ARQ w/posn tlx. (RB) LXAM: M/V ANTWERPEN 0646 ARQ w/tlx login: 36266 LXAM. (WT)
6272 EOIQ: M/V Aram Khachaturya 0635 ARQ BLASCO general cargo vsl, w/DISP-1 report from master KM Tsybul'skiy, login 67712 EOIQ. (RB)
6272.5 NMC: CAMSPAC Point Reyes, Ca, US 0610 ARQ w/sitor free signal, CW ID "NMC", have found NMN here in ship area before w/sitor signals to maintain comms w/USCGC Eagle. (RB) C6FA3: M/T KENNETH T. DERR 0556 ARQ w/bbxx (WT)
6273.5 WSNB: SS KENAI 0115 ARQ w/tlx dept pt angeles. LOGIN 10738 WSNB (WT)
6274.5 C6SX: M/V BLACK SEA 0143 ARQ w/tlx, eta ambrose pilot. LOGIN 70066 C6SX. (WT)
6275 WEZM: SS EWA 0218 ARQ w/tlx, dept L.A. twistlock count. tlx signed, "JOHN PAUL JONES, C/M"? WEZM: SS EWA 0250 ARQ w/qrg rpt login: 10949 WEZM. WSLH: SS MAUI 0635 ARQ rx only. WBN2073: 0515 ARQ w/qrg rpt. selcall 12073. (WT)
6275.5 ELIG7: M/V INDIAN OCEAN 0538 ARQ w/wx obs login 24750 INDO (WT)
6281 WUT3156: POWHATAN 0613 ARQ w/qrg rpt login: 10109 WUT3156 (WT)
6283.5 WUT3156: POWHATAN 0530 ARQ wkg globe w/qrg rpt. LOGIN 10109 WUT315 (WT)
6301 ELKL3: M/V Front Climber 0726 ARQ w/SS tlx of crew names. (RB)
6302 SCIN: M/V Lidan 0759 ARQ w/ETA tlx, login 26992 LIDA. (RB)
6303 UKVD: TKH Novokubyshevsk 2126 RTTY in 50/170 RYRY/DE to UGC, St

Petersburg Radio, & into crew TG's. (RB)
6303.5 LYCK: M/L Nida 0706 RTTY in 50/170 RYRY/DE to LYK, & into crew TG's. (RB)
6304.5 UAVH: BMRT Viktor Mironov 0708 RTTY in 50/170 RYRY/DE to RKLM, & into crew TG's using hull#/ID AB-0026 (ARH/KRH). (RB)
6305 UANI: NPS Artemida 0745 RTTY in 50/170 RR admin tfc for posn (5515N/04000W), & ETA Rotterdam from master, KM Berezenko. (RB)
6313.5 KFS: San Francisco, CA 1653 FEC wx. (AB2)
6315.5 USU: MARIUPOL RADIO 2211 ARQ telex msgs. (DG) KFS: Palo Alto Radio, Ca 0425 FEC w/tfc list. (RB)
6316 LSD836: Buenos Aires Radio, Argentina 0634 FEC w/"Lista de traffico" tfc list. (RB)
6320.5 FFT31: ST. LYS RADIO 2205 FEC 100/170 wx tfc. (DG)
6340.5 NMF USCG Boston 2030 FAX wx maps including 48 hr. Marine Forecast for Atlantic Ocean Very good (LB)
6349.9 HWN 0036 RTTY "RY" test loop 72/850 Reverse (LB)
6364.5 WCJY: SS Export Patriot 0003 ARQ w/OBS+ BBXX wx. (RB)
6371 GYU: Royal Navy Gibraltar 0450 RTTY 75/850 availability tape. (RB)
6452.5 GYA London 2045 FAX map- unreadable (LB)
6462 FUM: Papeete, French Polynesia 1352 RTTY 75/850 RY's & DE FUM. (AB2)
6531.7 MFA Cairo 1700 ARQ wkg embassy Khartoum til 1745 ack circuit (ANEE)
6536.7 Egyptian Embassy, Rome 1800 ARQ wkg MFA Cairo til 1900 (ANEE)
6537.7 Egyptian embassy, Khartoum 1700 ARQ wkg MFA Cairo til 1745 personal message from the ambassador to the Minister of Foreign Affairs, Info Security, Press, Information & Sudanese Affairs sections (ANEE)
6556.7 MFA Cairo 1800 ARQ wkg Rome til 1915. (ANEE)
6567.7 Unid: EGYPTIAN EMB. ROME 2151 ARQ 100/170 ATU-80 msgs. (DG)
6611.7 MFA Cairo 2000 ARQ wkg Berne exchanged phone numbers only til 2015. (ANEE)
6643.7 EGI Cairo 1645 ARQ wkg EGI Khartoum til 1730 (ANEE)
6645.7 Egyptian Embassy, Paris 1900 ARQ wkg MFA Cairo til 2000 (ANEE)
6676.7 MFA Cairo 1830 ARQ wkg Paris, Niamey, Wash. DC til 1945 . (ANEE)
6678.7 Unid: 0830 PACKET 300 isomar net. (ANEE)
6711 MFA CAIRO 1821 ARQ ATU-80 msg (diplo tfc) (DG)
6711.7 MFA Cairo 1945 ARQ w/tfc from Rome (ANEE)
6723 UNID 1652 LINK 11 Meter pinning LINK 11 signal with 14 pulses. (JH)
6734.7 MFA Cairo 1945 ARQ Relaying embassy Rome circulars til 2015. (ANEE)
6738.7 Egyptian embassy, Rome 1845 ARQ wkg MFA Cairo til 1945 (ANEE)
6741.7 Tunisian Navy 2100 ARQ idle (ANEE)
6745.3 Tunisian Navy: (Unid vsl) 2130 ARQ w/'routine secret' tfc, weak, move from 6741.7? (RB)
6771.7 Unid: 0530 ARQ-E3 192 French MIL til 0700 (ANEE) (RFLI & RFLIA logged here before in same mode/baud -LOGS)
6791.7 MFA Cairo 1645 ARQ wkg London til 1745 (ANEE)
6802.1 KGD34: NCC, Arlington, VA BBS 2020 PACTOR for SHARES exercise, NNN0ITO (Navy MARS) accessed the BBS, reply was "Welcome to SHARES exercise 96-1 BBS." Into Sitor-A at 2025 & briefly Sitor-B at 2027. (JM)
6804.7 Unid: Italian Diplo/Mil,? 0738 1200-FSK 1200bps UNID System (MC)
6811.7 Unid: Italian Diplo? 0741 1200-FSK 1200bps UNID System (MC)
6812.7 MFA Rome 1815 ARQ tfc to unid Italian Embassy (ANEE)
6812.7 MFA Rome 0645 ARQ 100 idle up early today (ANEE)
6825 AA3USA: USA Mars 0730 PACKET wkg AT4TFL (ANEE)
6825.5 AAT4TKY: 2141 Packet Army MARS sta. w/tfc to AAA3USA. (RM)
6836 NNN0MDA: USNMARS Manchester, NH 0726 PACTOR-1 100bd/200 Mailbox fwd to NNN0CYZ (MC)
6836.7 Unid: 2333 ARQ-E3 200 idle for sev hrs. (RM)
6842 Unid: 1734 RTTY 75/500 tfc sent: +034 rptd (DG)
6842 Unid 1734 RTTY 75/500 (DG)
6842 Unid: 0748 PSK 2400bps UNID System (MC)
6856.7 MFA Cairo 1900 ARQ wkg Moscow and to Abu Dhabi, Beirut, Paris & a relay to EGI Windhoek from EGI Cairo via EGI Paris, msgs from MOD Cairo to attache Paris til 2030. At 1830 wkg Paris til 1930 back half of link QSY'd several times: at 1845 to 6845.7 then 6851.7 then 6822.7 then on to 7746.7 w/most urgent and immediate 5lg's msg at 1915 then paris relayed msgs from embassy Nouakchott. At 1930, EGI Cairo 1930 ARQ wkg EGI Paris 1930-2000, then MFA Cairo MOL affairs msg to many embassies, then 2015-2030 from MFA Cairo to embassy

Paris. (ANEE)
6886.7 EGI Cairo 1815 ARQ wkg Islamabad w/encrypted tfc til 1900 (EGI = Egyptian General Intelligence). At 0730, Unid Egyptian Embassy wkg MFA Cairo (ANEE)
6896 Unid: 1216 ARQ-E 72/400 idle. (DG)
6901.5 Irish Navy: 1900 ARQ Irish Navy vessel selcalling PT-44 wx office til 1915 (ANEE)
6915 BAP46: XINHUA NX BEIJING 1851 RTTY 75/850 nx tfc. (DG)
6936.7 RFLI: 0315 ARQ-E3 192 wkg RFTJ til 0800 (ANEE)
6940.5 Unid: 0727 VFT: 2ch of Piccolo-6, eng. ch idle (MC)
6940.9 Unid: 0726 VFT: 2ch of Piccolo-6, crypto tfc (MC)
6946.8 P3D***: 0802 FEC-100 96bd/400/E "ry..ry p3d qbf p3d", crypto MSGs (MC)
6962 MFA Oslo 0900 F7B 100 (ANEE)
6963.5 Unid: GermanF? 1017 VFT: 3ch of 192bd/170/I FEC-100, idle on RQs, 700Hz ch sep (MC)
6975 6VU: ASECNA DAKAR 1837 RTTY 50/500 air tfc. (DG)
6976 RFFHCA: MOI Ajaccio 0700 ARQ-E3 192 (ANEE)
6981.9 SAM: Swedish MFA, Stockholm 0724 SWED-ARQ 100bd/400/9/I MSGs/5LGs to Teheran, St Petersburg (MC)
6984 MFA Warsaw 1900 POL-ARQ tfc to Europe, up 2.5 hours later than normal today (ANEE)
6987 Unid: 0751 75bd/200 NATO RATT (MC)
6989 Unid: 0845 USB Arabic maybe Algeria? til 0900. (ANEE)
7398 NHF: Usn Roosevelt Roads 0612 FAX 120/576 wx chrt (BvR)
7435.5 MOI Paris 0700 ARQ-E3 100 weak new link to Marseille? (ANEE)
7449.5 MFA Rome 0900 ARQ wkg Vienna, Oslo, Helsinki, Berne, Stockholm, Malta 0900-1000, encrypted tfc. At 0700 ARQ selcalling Embassy Malta (ANEE)
7456.7 RFTJ: FF Dakar, SEN 0134 ARQ-E3 192 AFL ct. (RM)
7460.3 Unid: French Forces? 0430 ARQ-E3 192/425 idling. (RB)
7467.9 MFA Copenhagen 0915 ARQ 0915-0930 weak. Also F7B/100. (ANEE)
7468 OZU25: MFA COPPENHAGEN 1205 TWINPLX 100/800 diplo tfc (DG)
7512 ZRO2: PRETORIA METEO, RSA 0023 RTTY 75/400 wx tfc. (DG) Same, 0348 RTTY 75/425 w/ FF tfc, then at 0354 w/wx for S. Africa issued by S. African Wx Service. (RB)
7542.7 Unid: 0700 ARQ-E3 192 new French MIL link 0700 (ANEE)
7564.5 Unid: 0715 RTTY 50 unid Arabic press 0715 (ANEE) (VIX75 INA Baghdad -LOGS)
7567.4 C37A***: MOSSAD, Jerusalem 1659 ARQ-E 288bd/330/8/E ARQ-E, crypto tfc (MC)
7575 Unid: 0117 UNID 110/170 unid TP sys. (RM)
7586 RFVITT: FF Dzaoudzi, MYT 2214 ARQ-E 96 idle for sev hrs. (RM)
7592.2 Unid: RUS 0733 MS5 12 tone vocoder (3300Hz pilot) (MC)
7595.8 IEA20: Italian Army 0715 RTTY 50 encrypted tfc til 0830 (ANEE)
7596 5UA: ASECNA NIAMEY 2336 ARQ-M2 96/400 idle. (DG)
7606.7 RFTJ: 0730 ARQ-E3 192 (ANEE) FF PARIS [RFFA]? 0906 ARQ-E3 192/400 8crc. Betas. Then off air. (DW)
7614 RFFH: 0730 ARQ-E3 192 (ANEE)
7616.7 MFA Cairo 1530 ARQ wkg Abu Dhabi til 1630 (ANEE)
7620 Royal Navy: 2135 RTTY in 75/850 RYRY & VMGTCNJ, back into encrypted GXQ RN London fleet tfc. (RB) Unid: 1815 RTTY 100 encrypted (ANEE) Unid: Royal Navy,??? 1345 RTTY 100bd/200 crypto w/RY's & vmgtcnjbh" (MC) Unid: 0940 RTTY 100/170 RYs followed by VMGTCNJ into enc. (SS)
7622 SNN299: MFA WARSAW 0759 ARQ-POL 100/250 4CRC Tfc list for Vienna emb. The tfc in Polish p/l. Later tfcto Belgrade, Berne, Ankara, Sofia, Bucharest. (DW)
7631.7 MFA Cairo 05645 ARQ wkg Doha, Qatar (ANEE)
7639.2 Paris GPS station 1730 FEC w/GPS data. (ANEE)
7643.3 RFLI: French Forces, Fort de 0428 ARQ-E3 France, Martinique, in 192/425 Controle de Voie. (RB)
7644.2 FF PARIS [RFFVA]? 2355 ARQ-E3 100/400 8CRC.Betas. (DW)
7650 BZR67: XINHUA, Beijing, PRC 0005 RTTY 75/425 w/ RYRY QRA, DE & ch.ID/freqs. (RB)
7672.5 Unid: 1715 RTTY 125 encrypted (ANEE)
7673.7 Unid: 2102 VFT: 2ch of 100.3bd/200 UNID FSK System, ALE? (MC)
7674.2 Unid: 2104 VFT: 2ch of 100.3bd/200 UNID FSK System, ALE? (MC)
7674.7 Unid: 2105 VFT: 2ch of 100.3bd/200 UNID FSK System, ALE? (MC)
7675.2 Unid: 2105 VFT: 2ch of 100.3bd/200 UNID FSK System, ALE? (MC)

7677 MFA Berne 0914 ARQ w/5flgs (SM)
7678.5 HBD20: MFA Berne 1745 ARQ selcalling embassy Bucharest til 1815. (ANEE) Same, 1140 ARQ 5fg's/diplo tfc (DG) Same, 1238 ARQ 5lg's (ED)
7693 3BT3: VACOAS MET 0018 RTTY 75/850 0020z tx on, idle on space. 0033z straight into met tfc without start-up or ID. Originator FIMP Mauritius/Sir Seewoosagar Ramgoolam Intl. (DW)
7701.7 MFA Cairo 1745 ARQ tfc til 1845 (ANEE)
7710 VFF: CCG Iqaluit, NWT, CAN 2110 FAX 120/576 w/what ap to be ice chart, thought this sta was closed for winter? (RB)
7711.7 MFA Cairo 1930 ARQ tfc from Bonn til 2115 (ANEE)
7721.7 Egyptian MFA, Cairo 1851 ARQ ATU-80 to Embassy Rabat (kds kdfykc) (MC) Same, 1645 ARQ new circuit (ANEE)
7723.7 MFA Cairo 1800 ARQ wkg Algiers til 1900. (ANEE)
7726.7 MFA Cairo 1530 ARQ wkg Abu Dhabi til 1630 (ANEE)
7744.2 Unid: 0752 Link-11 net (MC)
7748 Unid: RUS 1611 81-81 81bd/250 tfc (MC)
7750 RAW 78: Moscow meteo 1945 FAX 90/576 wx chrt (BvR)
7755.2 RFQP: FF DJIBOUTI 0116 ARQ-M2 200/350 ch a: idle ch b: C/I RQF from RFFR to RFQPCS w/C de V (SS)
7784 AFS: OFFUTT AFB ELK HORN, NE 0922 RTTY 75/850 KAWN meteo (SS)
7786 MFA Warsaw 1830 POL-ARQ 100 tfc from London - 2 hrs late today. (ANEE)
7816.7 Unid: Chinese Diplo, ??? 1654 4+4 (MC)
7821.7 MFA Cairo 1630 ARQ wkg embassy Tunis til 1715 w/circulars/comms servicing messages (ANEE)
7823 LKF: SOUD 1203 RTTY 75/500 5fig GPS. (DG)
7823.7 MFA Cairo 1545 ARQ wkg Tunis til 1645 w/msgs to radio statistics bureau (ANEE)
7824 V5G***: Romanian MFA, Bucharest 2054 ROU-FEC 164.5bd/400 Diplo circulars "circulara" (MC)
7832 Unid: RUS 0744 OQPSK 1280bps (MC)
7845.7 EGI station, Geneva 1845 ARQ wkg EGI HQ Cairo til 2000 (ANEE)
7855 ROK: Moscow meteo 1822 RTTY 50 wx (BvR)
7858.7 Unid: Italian Diplo 0745 1200-FSK 1200bps UNID System (MC)
7863.5 SPW: Warsaw Radio, Poland 1657 FEC Traffic List in SBRS mode (MC)
7870 NHF: USN Roosevelt Roads 0606 FAX 120/576 wx chrt (BvR)
7896.7 RFLI: FF FT DE FRANCE 0727 ARQ-E3 96/400 8CRC. Hung in a loop "rq_rfli". (DW)
7909.6 Unid 0930 ARQ unid prob. intl org/oil co conversation btwn horst/bob til 0945. At 0745, unid U.S. (news?) crew abroad-unid loc til 0945. It may also be tech reps. On another day, Seismo crew, Libya 0730 ARQ wkg Hannover. Mystery solved: originally thought this might have been a press crew. They report every saturday AM (ANEE)
7916 DGG91L2: PIAB BONN 0643 FEC-A 96/400 Start up sequence, Feb transmission schedule & German press for Europe. (DW)
7917.5 Unid: 0734 VFT: 2ch of Piccolo-6, engineering ch. idle (MC)
7917.9 Unid: 0735 VFT: 2ch of Piccolo-6, crypto tfc (MC)
7931.7 MOD Cairo 1800 ARQ wkg Defense Attache Algiers til 1915 w/5l grps, then msg requesting $2000 instead of $1500. (ANEE)
Unid: Chinese Diplo, ??? 1700 4+4 (MC)
7960 OMZ: MFA PRAGUE 0810 RTTY 100/400 nx items. (DG)
7969.5 Unid: 1845 ARQ weak til 1900 (ANEE)
7983.7 Unid: 0832 ARQ-E3 48/400 idle. (DG)
7983.7 RFTJ: French Forces, Dakar, 2140 ARQ-E3 Sen, 48/425 idling, at 2258 w/Controle de Voie on circuit TJF. (RB)
7994.2 RFFVAT***: French F, Incirlik 1704 ARQ-E3 200bd/400/E 5LGs to rffv** stns (MC)
7998.2 Unid: 0830 ARQ-E 96 (ANEE)
8001.7 RFHJ: Papeete, OCE 0830 ARQ-E 96 wkg RFLI til 1000 w/5l tfc (ANEE) Same, 0903 ARQ-E3 96/400 idle (SS)
8008 Unid: Czech MFA, Prague 0734 300.4bd/400 IRA-ARQ, crypto fm "Praha" to "PARIZ,LISABON,STRASB" (MC)
8020.5 Unid: 2133 VFT: 2ch of Piccolo-6, engineering ch. "speak to u soon kkkilo" (MC)
8020.9 Unid: 2136 VFT: 2ch of Piccolo-6, crypto tfc (MC)
8026.7 MFA Cairo 1630 ARQ wkg Doha, Qatar til 1700 (ANEE)
Unid: 2118 ARQ-M2 200/425 Idling. (RB)

8028 V5G: MFA BUCHAREST 1122 FEC-ROU 164.5/400 Tfc in online encrypt. (DW)
8040 GYA23 Bracknell Meteo 2140 FAX. Ice charts.(LB)
8045.5 Unid: 0755 VFT: 2ch of Piccolo-6, engineering ch. idle (MC)
8045.9 Unid: 0757 VFT: 2ch of Piccolo-6, crypto tfc (MC)
8050.2 RFQP: French Forces,Djibouti 2122 ARQ-M2 200/425 w/Controlle de Voie. (RB)
8063.2 RFFA: 2000 ARQ-M2 200 wkg RFQP (ANEE)
8079.9 NAA: USN CUTLER 2025 FAX 120/576 Fuzzy chart of N Atlantic. 850mb fcst? (DW)
8085 MKK: RAF LONDON 0743 VFT DCN vft with interleaved channels on USB/LSB. (DW)
8086.2 MKK: RAF LONDON 0745 RTTY 75/340 8086.275. Chan 3 in vft. RYI's qbf figs "test de MKK". (DW)
8107.7 RFQP: French Forces, Djibouti 2137 ARQ-M2 200/425 w/Controlle de Voie. (RB)
8108.2 RFQP: 2000 ARQ-M2 200 wkg RFFA (ANEE)
8124 Unid: RUS Diplo, ??? 1715 CROWD-36, crypto tfc (MC)
8126 MFA Warsaw 0930 POL-ARQ 100 tfc from Stockholm til 1000 (ANEE)
8134 SNN299: Polish MFA, Warsaw 0750 POL-ARQ 100bd/250/5/E MSGs to Polish E, Cologne (kolonia) (MC)
8146.6 IMB: Rome meteo 1750 FAX 120/576 au trop/max wind chrt (BvR)
8165 5YD: Nairobi Meteo, Kenya 2150 RTTY in 50/400 RYRY/ID. (RB)
8169 Unid: 0908 RTTY 75/507R w/encryption after "NR 06/NB TIMOK NR 111144 GR220". (PT)
8186.4 MSF Lyon 1500 PACTOR 200 wkg Sarajevo, Zagreb. (ANEE)
8303 LOR: ARGENTINE NAVY 2327 RTTY 75/170 5fg's/ry's/wx tfc (DG)
8304 LOR: AN Puerto Belgrano, ARG 0640 RTTY 75/170. Unclas tfc & 5lg's. (PS)
8329.5 EDL: Madrid r 1920 FEC tfc lst (BvR)
8340 323: Unid mv 1446 ARQ clg MPKV "any mgs pls+?" 9HDZ4: Mv Tom 1235 ARQ clg MPKV. SYMY: Mv Barenbels 1241 ARQ clg mpkv mgs abt paint. 9HHE4: Mv Amber 1021 ARQ 24220 sc mpkv. 9HHE4: Mv Amber 0840 ARQ tlx to Dynacom Athens ship 24220. 9HDZ4: Mt Tom 1823 ARQ sc mpks pos Sines anchorage (BvR)
8377 C6JO8: M/V Perseu 0055 ARQ w/tlx re proceeding to Cristobal, login 61303 C6JO8. (RB)
8377.5 WBWK: Moko Pahu 1600 ARQ testing e-mail transfer system. (AB2) KDGR: M/V PAUL BUCK 1812 ARQ w/bbxx login: 11642 KDGR. 8377.5 SUCN: M/V WADI AL NAKHEEL 2157 ARQ rx only login: 78003SUCN. WRJP: MV R.J. PFEIFFER 0220 ARQ w/e-mail re: deactivation at Ulsan shipyard, Korea on 13 Mar??? (WT)
8379 UQNR: Pechenga 0104 ARQ msg ck. (AB2) 3FUM4: M/V Johny C. 0012 ARQ w/OP+ req for wx broadcast times. 9HWM4: Mariupol Star 0135 ARQ w/tlx re ETA Capo Cruz. OZEC6: M/V Sea Flower 0154 ARQ bulk carrier, w/tlx for ETA, login 10194 OZEC6. C6DJ3: M/V Bongo Danielson 1649 ARQ w/berthing report, Ampico. (RB)
8379.5 KLKZ: OMI Columbia 0042 ARQ obs msg, selcall 11532. (AB2) WLBX: LAWRENCE H GIANELLA 2240 ARQ w/route msg login 11646 GIAN (WT)
8380.5 SQNV: Lublin II 0104 ARQ tlx for Valparaiso, selcall 43103. YCTH: Kutai 1703 ARQ tlx for Amsterdam. ELEW6: Aegra 1705 ARQ ETA Yingkou. (AB2)
8381 OWJP2: M/V Elisabeth Clipper 0139 ARQ w/posn tlx, login 85270 OWJP2. P3SO2: M/V Alfa 1848 ARQ w/tlx for ETA. (RB)
8381.5 P3KQ4: Chiquita Amata 0110 ARQ c/s & selcall 56197. (AB2) YLAZ: TR Fedor Bredikhins 0020 ARQ w/crew TG tfc, also sends for YLCZ, TKH Akademikis Botszhars & YLDE, TKH Akademikis Chelomeyes. YLBF: TKH Ivans Kulibins 0030 ARQ w/admin tfc from master KM Kolesov, login 60633 YLBF. (RB) SZNU: M/V TRIDENT MARINER 0639 ARQ w/tlx 4455n 15120e. wkg jcs. login 16872 SZNU. UJNC: M/V YANIS RAYNIS 0658 ARQ w/tlx to: Seoul. login: 55554 UJNC. (WT)
8382.5 C6KV2: Auckland Star 1642 ARQ msg ck, selcall 61386. (AB2) S6FM: Neptune Notome 0716 ARQ w/AMVER/SP. UTXB: TKH Donetsk 2335 ARQ w/DISP-1 rpt from master, KM Smirnov, login 67818 UTXB. (RB) P3XS3: M/V MEXICANA 2200 ARQ wkg kph. eta long beach 9th. login: 56117 P3XS3. ELEV8: LIRCAY 0245 ARQ w/tlx via KPH. 1504n 15533w. eta IQUE 3/11/96. (WT)
8383 UHVN: Ostrovskiy 1655 ARQ crew TG's to Vladivostok. (AB2)
8384 CUFE: Santa Christina 0035 ARQ posrep 33.18N/118.01W. (AB2)

8384.5 SYYP: Winner 0102 ARQ tlx for Coastal Maritime, Piraeus. (AB2) C6IF3: M/V LEON 0210 ARQ w/tlx to: cavo d'oro nav (piraeus). login 29260 C6IF3. (WT)
8385 SXNU: Mv Ruby 1833 ARQ tlx tfc pos Sues (BvR)
8386 DZSA: LUMINOUS ACE 0500 ARQ w/amver/fr arr Honolulu. C6FA7: GEORGE H WEYERHAEUSER 0558 ARQ w/bbXX. WRYW: M/V PRESIDENT ADAMS 1910 ARQ w/msg to: plead ctl. Kaoshiung (Taiwan) to L.A. (WT)
8387 P3UQ2: Ptolemeos 1618 ARQ msg check, selcall 00536. OXSF2: Axel Maersk 1637 ARQ AMVER msg. (AB2) ELAJ6: M/V Rosina Topic 0522 ARQ bulk carrier, w/ETA Cristobal, Newcastle, login abbrev "ROSTOP". (RB) VVJY: M/V LOK PREM 0628 ARQ w/tlx to: bombay. 2628n 16133w. login: 23698 VVJY. (WT)
8387.5 SQDH: M/V NARWIK 2 0108 ARQ in opr mode login 43248 SQDH. SQRJ: ACAMAR 0652 ARQ w/tlx login: 43132 SQRJ. SQLY: M/T CASSIOPEIA 0702 ARQ w/tlx to: gdynia. login: 43105 SQLY (WT)
8388.5 PJPO: Super Servant 0124 ARQ tfc in unid lang, "Amazon River" mentioned. (AB2) VSBZ5: SS Chevron Edinburgh 0026 ARQ w/login, login now 310022000 VSBZ5. PGWJ: Prins Frederik Willem 0726 ARQ w/tlx to PCH, selcall 36112. (RB)
8389.5 KNJD: SS BLUE RIDGE 0605 ARQ w/wx obs login 11132 KNJD. (WT)
8390 9HZH3: Seabee-1 0124 ARQ outbound from Asan, S. Korea, ETA Port Angeles & 0600 posn 47.43N/134.17W, selcall 63341. (AB2) P3MZ6: M/V Aerosmith 1638 ARQ bulk carrier, w/tlx for supplies needed at Nola, login 29543 PROD. (RB) 3EKA9: ARTESIA 0137 ARQ w/tlx, eta c.christi. login 29045 ARTISI. UAKA: 0138 RTTY 50/170 "RYRY RNO DE UAKA". no joy. 5LPH: WORLD WOOD 2209 ARQ w/tlx via maritex. login: 29360 5LPH. (WT)
8390.5 KNJF: SS Charleston 1934 ARQ U.S. flagged 21,649 DWT tanker, w/AMVER/DR. TBVC: Pinar No.3 2345 ARQ listed as a naval vsl by ITU, sending tlx in Turk. Via WLO? Odd... (RB)
8391.5 EWDT: TH Khudozhnik Moor 0550 ARQ w/admin tfc to Novorossiysk Radio from master, KM Demchenko. UNSW: TKH Kapitan Bukmakin 0559 ARQ w/crew TG's to Arkhangelsk Radio. YLAQ: TKH Vasiliy Fesenkov 1405 ARQ w/crew TG's login 60621 YLAQ. UGSH: TH Slavyanka 2358 ARQ w/crew TG's via Vladivostok rdo. (RB)
8392.5 ELNJ4: Izmaylova 0013 ARQ msg ck. (AB2) UVLQ: TKH Marshal Zhukov 0524 ARQ w/DISP-1 report. UDSX: TK Vera Maretskaya 2107 ARQ w/NVRTLG+ crew TG's, (NVR/MMF). UNES: TH Marshal Budennyy 2210 ARQ bulk carrier, w/DISP-1 report from master KM Artem'ev. (RB)
8393.5 UUUB: RKTS Marshal Sudets 2005 RTTY in 50/170 RYRY/DE to URL, Sevastopol Radio, & into crew TG's to same. UVKG: RTMS Stratosfera 2015 RTTY in 50/170 RYRY/DE to URL, & w/crew TG's, admin msgs to same. (RB)
8394 3FVK3: M/V Hai Ji 0314 ARQ w/AMVER/PR. UQTD: BKRT Nataliya Kovova 0328 RTTY in 50/170 RYRY/DE to URL, Sevastopol Radio, & w/admin tfc from master, KMD Nikiforov. C6DJ: M/T Star Wilmington 0402 ARQ w/tlx to Croatia. (RB)
8394.5 ENHY: TKH Timofeevsk 2106 RTTY in 50/170 crew TG's to Sevastopol (SVS/MRH). (RB)
8395.5 EOXT: SRTM Goryn' 0330 RTTY in 50/170 RYRY/DE & into crew TG's (ILCH/MRH). UVIF: RTMA Peredozik 0517 RTTY in 50/170 RYRY/DE to URL & w/crew TG's to same (SVS/MRH). (RB)
8396.5 DUJW: M/V Sapphire 2131 ARQ w/tlx to Oceanroutes San Francisco, login 76739 DUJW. (RB)
8397 UZHG: TKH Kapitan Ponomarev 0753 ARQ w/DISP-2 report to UCE from master KM Kotlyarenko, note ITU shows s/c chg'ed to UCBO, but old c/s UZHG is still used in tfc. UIUR: TKH Petr Strelkov 2324 ARQ bulk carrier, w/ARHTLG+ crew TG's to Arkhangelsk Radio. (RB)
8398 ENYP: RTMKS Kapitan Butrimov 2012 RTTY in 50/170 admin TG's to Kerch Radio from master KMD Grigogenko. UNCH: BMRT Gazgan 2217 RTTY Factory Fishing trawler, in 50/170 admin TG's to Odessa Radio from master. (RB)
8398.5 Mv Swan 1833 ARQ tlx to Oslo (BvR) TCSX: Mariner Pacer 0832 ARQ w/port entry msg to unid port authority. (RB)
8399.5 UYHW: Ilya Kulik 1632 RTTY 50/170 tfc for Singapore. (AB2) YLGC: TR Beringa Sala 2320 RTTY in 50/170 admin TG's to Riga Radio. (RB)
8401 UGAA: Unid SA-0597 2140 RTTY in 50/170 RYRY/DE to UAT, Moscow Radio & into admin tfc to w/home port shown as Kholmsk (HLM/MRH), QSY's to

6301.0 after 2 resends of tfc. (RB)
8401.5 UKTP: TKH Rovno 0435 RTTY in 50/170 RYRY/DE to URL, & into crew TG's, c/s was chg'ed per ITU to ENLO, but UKTP still used in all rdo tfc. UWLT: TH Kapitan Kadetskiy 1900 RTTY in 50/170 crew TG's to Odessa Radio, vsl at Trinidad. (ODS/UMF). EMNT: TKH Zhitomir 2017 RTTY in 50/170 RYRY/DE to UUI, & w/crew TG's to same, Odessa Radio. URJA: TKH Stepan Artemenko 2019 RTTY in 50/170 tfc, but seemed to use name TKH Mekhanic Dem'uzbeonyj in TG's, poss name change. UEXI: RTMA Il'men' 2338 RTTY in 50/170 crew TG's to K-Grad. (RB)
8402.5 UVHZ: Demyan Korotchenko 0005 RTTY in 50/170 RYRY/DE to UIW, Kaliningrad Rdo, & admin tfc from master, KMD Skachkov. UWBS: RKTS Nikolay Fil'chenkov 1929 RTTY in 50/170 admin tfc to Sevastopol from master, KMD Kazurov. UVAU: M/V Zoya Kosmodemyanskaya 2024 RTTY in 50/170 RYRY/DE to UUI, Odessa Radio, & into crew TG's home. (ODS/UMF). UNMJ: BATM Dzhaparidze 2124 RTTY in 50/170 RYRY/DE to UIW, & into admin TG's using hull#/ID BATM 6040 from master KM Sukhodyaevskiy. EWAD: RTMA Sadko 2358 RTTY in 50/170 crew TG's to K-Grad. (RB)
8403.5 HP8276: RTMS Madam Klavdiya 0002 RTTY in 50/170 crew TG's, off w/"DE HP8276..." (RB)
8404 URIF: BATM Aleksey Slobodchikov 0518 RTTY in 50/170 RYRY/DE to URL & into crew TG's to same, ex-UQFN. UROE: BATM Ivan Golubets 0540 RTTY in 50/170 RYRY/DE to URL & w/crew TG's to same. URVV: BAT Meridian-1 0547 RTTY in 50/170 RYRY/DE to URL & w/crew TG's to same. UTSI: RTMA Sokolinoe 0614 RTTY in 50/170 RYRY/DE to URL & w/admin tfc from master, KMD Bayandurov. YLEI: TR Ekholots 2010 RTTY in 50/170 RYRY/DE to UKB, (old Riga c/s), & into admin TG's from master, KM Kamozin. (RB)
8404.5 UTIX: TR Amurskiy Zaliv 0414 RTTY in 50/170 RYRY/DE to URL, & into crew TG's. UWMI: RTMA Sapun Gora 0429 RTTY in 50/170 RYRY/DE to URL, Sevastopol Radio, & into crew TG's. (RB)
8406 URZP: TKH Petrokrepost' 0809 RTTY in 50/170 admin TG re ETA Cagliari, Italy. UQYZ: TKH Pavloydar 2322 RTTY dry cargo vsl, w/admin TG's from master, KM Zozulya. (RB)
8406.5 LYEP: RTMKS Koralas 0037 RTTY in 50/170 admin tfc from master, KM Butkevich. (RB)
8407 UIBQ: TKH Yanis Lentsmanis 2118 ARQ w/MSKTLG+ crew TG's to Moscow Radio, (VLD/DMT). (RB)
8408 MPKV: Unid Athens 1629 ARQ mgs from Dynacom Tanker Management (BvR)
8412 SQGN: M/V Budowlany 0022 ARQ Polish bulk carrier w/posn tlx to Shortramp Szczecin, ETA Dublin. (RB)
8413 UGOV: TKH Novomsrovsk 0014 ARQ w/admin tfc to St Petersburg from master KM Kotov. UYOQ: TKH Rostov 0744 ARQ w/admin tfc to UGC from master KM Movoha. ULFU: THB Feodor Varaksin 0030 ARQ bulk carrier, w/RR tlx for agent info, ETA Santana. (RB)
8414 UFBE: BATM Maluvsyaii 2150 RTTY in 50/170 RYRY/DE to UDK-2, & into crew TG's to Murmansk Radio using hull ID MA-0061 (MRM/KRH). (RB)
8414.5 GMDSS CHANNEL 0804 GMDSS 29 packets. One Format Specifier = Selcal group giving tx/rx frequencies as 5759 khz which are not maritime!. Checksum error reported in this packet. (DW)
8416.5 NMC: CAMSPAC Point Reyes, 0031 FEC Ca, US w/wx in progress, DGPS data & NavArea info to 0039. (RB)
8420.5 CBV: Valparaiso Radio, CHL 0400 FEC w/tfc list. (RB)
8817.6 NKorean Diplo, unk loc 0715/0740 BPSK 1200bps UNID System (MC)
8876.7 MFA Cairo 1645 ARQ wkg Paris til 1800. (ANEE)
8918.7 MFA Cairo 1645 ARQ wkg unknown til 1830. (ANEE)
9046 Unid: 0714 RTTY 75bd/400 crypto tfc ends "sksksksksk" (MC) (poss DFZE MFA Belgrade -LOGS)
9046.3 Unid: 0945 PACTOR 200 Nigerian airports-Abuja, Kano - stil think this could be UNHCR. Faded by 1045. At 1645 Abuja, Nigeria airport 1645 PACTOR 200 til 1715. (ANEE)
9057 Unid: 0754 FSK 75bd/200 UNID System, synch, M:S=1:1, no ACF (MC)
9062 Unid: German MFA? 0718 MERLIN 228.7bd/150 (MC)
9066 Unid: Polish E, ??? 0730 POL-ARQ 100bd/250/5/E idle on Betas (MC)
9073.2 Unid: RUS 0744 MS5 12 tone vocoder (3300Hz pilot) (MC)
9076.7 RFFA: MoD Paris, F 2156 ARQ-E3 192/425 idling. (RB)
9081.9 MFA Copenhagen 0900 F7B 100 tfc til 0945. (ANEE)
9081.9 MFA OSLO 0800 TWINPLEX 100 Online encrypted tfc. -400/-200/200/400

F7b1. Tfc signed NOREG. (DW)
9081.9 Unid: Norwegian MFA, Oslo 0743 TWINPLEX-4n 100bd/400 crypto ends "zzzzz" clg "KFPZ, KFKE" (MC)
9090.5 MFA Rome 0930 ARQ. (ANEE) Same, 1000 w/diplo tfc (DG) At 0806, same, w/5LGs "da maeroma" to various Emb/Cons (MC)
9090.7 Unid: Italian Diplo, Rome 0803 1200-FSK 1200bps UNID System (MC)
9102.7 MFA Cairo 1800 ARQ wkg Unid til 1815. Egyptian Embassy, Washington, DC 1715 ARQ wkg MFA Cairo til 1800 (ANEE) Same, 2206 ARQ ATU Arabic, to Cairo (ED)
9104 Unid: Romanian E, ??? 0737 ROU-FEC 218.3bd/400 crypto (MC)
9106 V5G***: Romanian MFA, Bucharest 0806 ROU-FEC 164.5bd/400 crypto (MC)
9107.2 Unid: 1745 TWINPLEX 100 (ANEE)
9110 NMG USCG Boston 2205 FAX wx map (LB)
9114 HGG31: MTI Budapest, Hungary 1655 RTTY 50bd/400 ID+NX in EE (MC)
9117.5 PCW1: MFA THE HAGUE 1754 CW/SITOR Marker "PCW1" & tuning burst. (DW)
9126.7 RFTJD: FF LIBREVILLE 2031 ARQ-E3 192/400 8crc. Betas. Cct [HAI] to Paris. Various controle de voie services. (DW)
9126.7 Unid: Italian Diplo? 0722 1200-FSK 1200bps UNID System (MC)
9130.3 MGJ: RN 1847 RTTY 75/850 QTH unknown, available ch's (RM)
9150.7 Unid: Italian Diplo/Mil, ??? 0745 1200-FSK 1200bps UNID System (MC)
9174.5 MFA Berne 0930 ARQ wkg Warsaw til 1015. (ANEE)
9179.5 RETWBB: Guardia Civil, Barcelona 0808 ARQ clg "TWBB" then MSGs in SS to RETXO (MC)
9180 Unid Italian Cons, Tripoli 0827 ARQ-E 96bd/170/8/E 5LGs + opchat in II (MC)
9182 Unid: RUS 0721 36-50 50bd/250 tfc (MC)
9187.7 Unid: Italian Diplo/Mail, ??? 0747 1200-FSK 1200bps UNID System (MC)
9188 Unid: 0945 PACTOR 200 tfc til 1015. (ANEE)
9209 6XM8***: Germany 1536 ARQ-E 288bd/195/8/I crypto (MC)
9209 Unid: RUS 0723 OQPSK 1280bps (MC)
9239.5 Unid: 1730 ARQ possible French Navy? FEC noted also (ANEE)
9264.1 Unid: 0753 VFT: 2ch of Piccolo, idle (MC)
9264.5 Unid: 0754 VFT: 2ch of Piccolo, idle (MC)
9274.9 MFA OSLO 0752 TWINPLEX 100 -400/-200/200/400. F7b-1. Monitor to disc. Online encrypted tfc. Signed NOREG. News summary in Norwegian p/l. Selcals used KFKI, KFYB, KFYI. (DW)
9278 OLZ88: Czech MFA, Prague 0805 RTTY 100bd/400 "cq cq cq de olz 88", football results, diplo NX (MC)
9282 Unid: RUS 0718 81-81 81bd/250 tfc (MC)
9288 Unid: Czech/Slovak/Bulgarian E 0759 IRA-ARQ 300bd/400 crypto tfc (MC)
9291 Unid: Polish E, Helsinki 1542 POL-ARQ 100bd/250/5/E Input to MFA computer "wjslij: helsinki" (MC)
9318 NRK: Usn Keflavik sat pic 1705 FAX 120/576 (BvR)
9333.7 Unid: Italian Diplo/Mil, ??? 0743 1200-FSK 1200bps UNID System (MC)
9338.5 Unid: 0750 VFT: 3ch of Piccolo, idle (MC)
9338.9 Unid: 0748 VFT: 3ch of Piccolo, idle (MC)
9339.7 Unid: 0747 VFT: 3ch of Piccolo, idle (MC)
9340 RCH72: TASHKENT MET 1623 FAX 90/576 Upper air chart. (DW)
9346 Unid: 0930 RTTY 50 itl 0945 (ANEE)
9360 Unid: RUS 0724 81-81 40.5bd/500 tfc (MC)
9361.9 DGJ36L1: PIAB, Bonn 1611 FEC-100 96bd/400 NX in GG (MC)
9380 P6Z***: French MFA, Paris 0746 FEC-100 192bd/400/E MSG acks to U3H (FE Moscow) (MC)
9397.5 Unid: 0820 VFT: 2ch of Piccolo-6, eng. ch idle (MC)
9397.9 Unid: 0819 VFT: 2ch of Piccolo-6, crypto tfc (MC)
9419 Unid: 1430 RTTY 75/170 encrypted. (RM)
9907.7 RFFP: 0945 ARQ-M2 200 idle. (ANEE)
9942.1 Unid Czech/Slovak MFA, 0729 300.5bd/200 IRA-ARQ, crypto (MC)
9967.7 MOI Nigeria 1745 ARQ idle (ANEE)
9983.2 CSP40: Portuguese State Police 1600 FEC wkg CSP22 Cometlis - Special Security Office Lisboa. (ANEE)
9983.5 French Diplo, unid loc 0743 TT2300b 100bd tfc (MC)
9983.7 RFFA: 1000 ARQ-E3 100 Idle. (ANEE) RFFA: FF PARIS? 0712 ARQ-E3 100/400 8CRC. Betas. Off air w/o tfc or c de v. (DW)
9991 Unid: RUS 0757 81-81 81bd/250 tfc (MC)
9994 Unid: RUS 0935 81-81 81bd/250 tfc (MC)
10038.2 Unid: RUS 0725 MS5 12 tone vocoder (3300Hz pilot) (MC)
10103.7 RFFA: 1000 ARQ-E3 192 idle. (ANEE)

10105.9 Unid: RUS 0724 OQPSK 1280bps (off frequency?) (MC)
10110 Unid: RUS 0821 OQPSK 1280bps OQPSK (MC)
10122.2 Unid: RUS 0755 MS5 12 tone vocoder (3300Hz pilot) (MC)
10123.9 Unid: 1626 Piccolo, idle (MC)
10126.4 Unid: Algerian MFA, Algiers 0750 Coquelet-8 26.7bd/I MSGs in FF to "consalg vitry sur siene" (MC) MFA ALG 0900 COQ-8 26.6/200 diplo tfc. (DG)
10140 Unid: RUS 0721 FSK 96bd/500 UNID FSK System, No ACF, M:S=1:1, sync cont. (MC)
10150 Unid: Italian E, Warsaw 0835 ARQ-E 96bd/170/8/E 5LGs to European Embs "da maeroma", "tx ambvars" (MC)
10154.2 Unid: RUS 0752 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
10174.5 Guardia Civil, Barcelona 0600 ARQ (ANEE)
10177.7 RFFA: FF PARIS? 1022 ARQ-E3 192/400 8crc. Betas. No tfc or ID, at 1252 possible header "zczc lfb". (DW)
10201 Unid: RUS 0718 81-81 81bd/200 tfc (MC)
10208.5 Unid: RUS 0728 OQPSK 1280bps (MC)
10244 Unid: RUS 0757 81-81 81bd/250 tfc (MC)
10254 Unid: German Diplo, ??? 1550 MERLIN 240bd 7 tone (MC)
10281.2 RFLIG: FF CAYENNE, GUF 2217 ARQ-E3 192/400 idle+C de V on C/I RTI (SS)
10307.7 MFA Cairo 1430 ARQ network control wkg London. (ANEE)
10314 MFA Warsaw 1630 POL-ARQ 100/170 tfc in polish. (ANI)
10334.7 MFA Cairo 0745 ARQ wkg Bucharest til 0800 (ANEE)
10342.9 NOUMEA RADIO 1138 ARQ-M2 128.5/170 FF news items (EW)
10410 KUL: SOUD 0716 RTTY 75/500 5fig GPS. (DG)
10412 RFFXL, Lebanon 1533 ARQ-E 72/425 w/traffic in FF to RFFXOC, "ARMEES PARIS". (PT)
10422.5 MFA VIENNA 0743 ARQ-S 96/200 Tfc in German. 5CRC. ACF70. (DW) OEC??: Austrian MFA, Ankara 0746 ARQ-S 96bd/200/5 opchat "ankara aus bis morgen" (MC)
10452 Unid: RUS 1548 36-50 50bd/200 tfc (MC)
10453.3 Unid: 0942 RTTY 50/250 Spanish ctr (DG)
10461.7 MFA Cairo 0800 ARQ wkg Rome (ANEE)
10475 Unid: 0815 RTTY 50 encrypted (ANEE)
10477 V5G***: Romanian MFA, Bucharest 0743 ROU-FEC 164.5bd/400 Press Review in RR (MC)
10485.7 Unid: Italian Diplo/Mil, ??? 0744 1200-FSK 1200bps UNID System (MC)
10493 V5G: MFA BUCHAREST 1224 FEC-ROU 164.5/400 Tfc in online encrypt. (DW)
10493.7 RFTJF: FF PORT BOUET 1956 ARQ-E3 48/400 8CRC. Betas.Cct [JFJ] to Dakar. Controle de voie svc RFTJ de RFTJ. (DW)
10536 CFH: CF Halifax 1909 FAX 120/576 wx chrt (BvR)
10547.7 Italian Diplo/Mil, unid loc 0727 1200-FSK 1200bps UNID System (MC)
10561.8 Unid: 1251 BPSK 2400bps UNID System (MC)
10613.3 Unid: NKorean MFA, ??? 0721 BPSK 1200bps UNID System, fast CW op chat later (MC)
10625.9 Unid: 0910 RTTY 50/1000 5fg's/mandarin chtr(?) (DG)
10639.8 CLP-1: 1510 RTTY 50/500 RYs followed by kgzz into encryption running at 50bd + switched to 75bd sending circulars in SS (SS)
10671.7 MFA Cairo 1700 ARQ wkg Doha, Abu Dhabi, Tunis, Beirut, Khartoum, Riyadh, Damascus, Algiers, Sanaa and Muscat. Also two urgent cipher msgs from EGI Cairo ("47") to EGI Rep Khartoum. (ANEE)
10688 Unid: 0909 ARQ-E 72/400 idling (DG) RFF: FF 1553 ARQ-E 72bd/400/4/I idle on RQ's & Betas (MC)
10692.5 Unid: 1030 ARQ very weak 1030-1100. MFA Rome? poss -ne- series selcalls (ANEE)
10695.5 Unid: 0757 TT2300b 100bd idle then into tfc (MC)
10746 Unid: RUS 0745 81-81 81bd/250 tfc (MC)
10767 RGA: SOUD Moscow, R 1500 RTTY 75/500 msg to BFR link id 00030. (ANI) RGA/BFR: SOUD Station, ??? 0731 RTTY 75bd/500 5LGs hdr "11177 00030 63880 26433 03489" (MC)
10865 NAM: Usn Norfolk 1820 FAX 120/576 sea ht anal (BvR) (Now located at Cutler, Me as NAA -LOGS)
10952 Unid: 1457 ARQ 100/170 5fig GPS. (DG) (MFA Berne logged here before -LOGS)
10993.7 ALGERIAN EMB HAVANA 2102 COQ-8 13.3 10993.776 Opr chat in FF. Washington mentioned & qrm. Switched up speed to 26.6bd then into apparent encryption. (no sync). In the clear "vci off la havane".

At 1916, UNID. ALGERIAN COQ-8 13.3 1993.672 Opr chat in FF after realizing bd rate 13.3 not 26.6. No IDs. (DW)
11026.7 MFA CAIRO 1537 ARQ initially irs mode. Constant mark between bursts. Subsequent tfc in ATU80 to Tripoli. (DW)
11030 FAX. Too poor to copy. (LB)
11036.7 MFA Cairo 1015 ARQ up 6 hours early this ckt. Same at 1100 wkg Belgrade til 1130. (ANEE)
11043.7 RFTJD: FF LIBREVILLE 1939 ARQ-E3 192/400 8CRC.Betas. Cct [JDJ] to Dakar. Controle de voie at 2006zRFTJ de RFTJ. (DW) `RFTJ': FF Dakar, Senegal 2238 ARQ-E3 192/285 CdeV Circuit [JDJ]. (PS)
11050 D2Z: French embassy in Budapest, Hungary 1500 FEC-A 192/386 clg P6Z, Paris. (PT)
11063 LZU2: SOFIA MET 0730 RTTY 50/500 Met traffic, 160hz high. (DW)
11072.5 RFGW: MFA Paris, F 1440 FEC-A 192/370 w/encrypted tfc. (ANI)
11076 MFA Warsaw 0900 POL-ARQ 100 tfc from Bucharest til 1015. New freq. (ANEE)
11080 Unid: SANA News, Damascus 0809 RTTY 50bd/400 NX in Arabic (MC)
11085 RFGW: MFA PARIS 0812 FEC-A 192/400 Idling on RQs. Brief opr in FF. QSLs/QRUs. Monitor to disk. Calls/tfc in FF/offline encrypted tfc to SRZ944/U3H/J5W(?). At 0740, calls "TJN de P6Z qap la 360 aug 3 qtc un tit paquet". (DW)
11086.7 MFA Cairo MOI 1030 ARQ press clippings to middle eastern embassies. (ANEE)
11110.3 RFLI: French Forces, Fort de France, Martinique 2138 ARQ-E3 in 192/425 idling, should be circuit BFL. (RB)
11114.5 Unid: Saudi Nat. Guard, ??? 1600 ARS-GUARD 125bd/170 (MC)
11121 AFS USAF Elkhorn 2200 FAX wx maps excellent (LB)
11127.1 Unid: 1745 PACKET-Variant til 1800. (ANEE)
11132 Unid: CDN Algiers 1254 RTTY 50bd/200 Diplo MSGs marked "cdn alger" in FF (MC)
11133 Unid: Germany? 0801 ARQ-E 96bd/200/8/E crypto (//13903kHz?) (MC) (yes, suspected BND freq -LOGS)
11139 `BPXL': 2130 RTTY 75/850 Encryption. Seen this one before in the 16 Mhz area. (PS)
11155.4 Unid 0815 unid 300/472 poss Russian 11 bit system. (AB3) (RIT, Russian Navy Vayvach logged here in CW -LOGS)
11156.7 Unid: 1528 VFT: 2ch of 100bd/200, UNID ALE System (MC)
11157.7 Unid: 1529 VFT: 2ch of 100bd/200, UNID ALE System (MC)
11201.7 Unid: Zagreb 1221 ARQ MSGs mkd "t.c.zagreb buyukelciligine" (MC)
11251.4 ALG MOI 1106 COQ-8 26.6/200 customs tfc (DG)
11327.9 MFA COPENHAGEN 0754 TWINPLEX 100 -400/-200/200/400/ f7b-1. In irs mode. All day monitor to disk. MFA Copenhagen, Sofia embassy. Selcals TPRC/TPIP/TPRC. Tfc in Danish. (DW)
11328 MFA Oslo 0815/0915 F7B 100 new freq, new schedule, tfc till 1015. (ANEE)
11416.7 Unid: 1215 IRA-ARQ 110 station "rkrw" repeats, encrypted tfc til 1230. (ANEE)
11422 Unid: RUS 0800 OQPSK 1280bps (MC)
11426 VNB/WQL: SOUD Station, ??? 0847 RTTY 75bd/500 "11177 80061 00000 20289 01761" (MC)
11430.5 Unid: 0804 VFT: 2ch of Piccolo-6, engineering ch. idle (MC)
11430.9 Unid: 0804 VFT: 2ch of Piccolo-6, crypto tfc (MC)
11438 MFA Oslo 1000 F7B 100. (ANEE)
11450 RDD77: MOSCOW MET 1638 RTTY 50/1000 Met tfc. (DW)
11476 HMF52 : KCNA Pyongyang, NKO 2145 RTTY 50/240 EE nx items. (RB)
11518.2 RFFP: 1045 ARQ-M2 200 wkg RFFVAY. (ANEE) FF PARIS [RFFP]? 1648 ARQ-M2 200/400 4CRC. 2 channel tdm. Ch:A and B: both betas. Generally poor sync. Ch:B no circuit ID. Header to RFFVAY de RFFTA. (DW)
11524 Unid: RUS 1523 36-50 36bd/250 idle on reversals (MC)
11535.4 Unid: 2110 RTTY 50/500 op chatter in SS (SS)
11536 Unid 1210 unid 228/208 wouldn't decode. (AB3)
HMF49: KCNA NX PYONGYANG 0843 RTTY 50/250 nx propaganda. (DG)
11571.7 MFA Cairo 0900 ARQ w/tfc from Belgrade til 1000. New freq & sked. (ANEE)
11622 NHF Puerto Rico 2236 FAX. Maps. (LB)
11626.9 MFA Sofia 1045 IRA-ARQ 150 encrypted new freq, earlier schedule. (ANEE)
11631.9 RFLI: FORT DE FRANCE, MRT 0116 ARQ-E3 192/375 C de V + idle (SS)

11632 `RFTJ': FF Dakar, Senegal 0330 ARQ-E3 192/340 CdeV. Circuit [TJI]. Unlisted channel. (PS)
11638 DDK8: Hamburg Met, Germany 0816 RTTY 50bd/430 AAXX WX for German land stns (MC) Same, 1537 RTTY 50/400 meteo (SS)
12090.2 RFTJ: FF Dakar, SEN 2028 ARQ-E3 192 cdv. (RM)
12102.9 SAM: Swedish MFA, Stockholm 0932 SWED-ARQ 100bd/400/22/I Press review in Swedish (MC)
12110 YOM21: ROMPRES BUCHAREST 1049 RTTY 50/500 nx items. (DG)
12125.4 Unid: 1735 RTTY 70/400 wx tfc. (DG)
12140 HWN: French Navy, Pair 0900 RTTY 75 test slips (ANEE) At 1218 w/RY's. (ANI) At 1639 w/RY's. (RM)
12145 VKX: SOUD STATION 1108 RTTY 75/500 5fg's/ry's (DG)
12149.3 UNID: 1708 ARQ-M2 96/340 12149.365 Chan G in vft. 2 channel tdm. 4CRC. Ch:A met tfc originated EGRR. Ch:B alphas. (DW)
12150 MFA Rome 1045 ARQ-E 96 wkg Eastern Bloc til 1100 traffic down at 1100 (hour & a half early- a slow sunday!) (ANEE) Same at 1035 w/diplo tfc. (DG)
12150.5 MKK: RAF LONDON 1053 RTTY 50/400 test de mkk (DG)
12151.2 UNID: 1706 RTTY 75/340 12151.235 Chan B in vft. On line encrypted. ACF7. (DW)
12151.4 UNID: 1704 RTTY 50/340 12152.595 Eng chan in vft. Idle on mark. (DW)
12152 UNID: 1700 VFT 8 channel DCN interleaved vft on LSB. (DW)
12166.7 Japanese Emb. Managua, NCG 1642 ARQ w/many 5LG msgs & one msg in romanized JJ. QRT 1922. (RM) (not one you see often! -LOGS)
12207 Unid: MFA BUCHAREST, ROU 1418 ROU-FEC 164.5/400 enc tfc (SS)
12208 OMS: MFA BRATISLAVA 1100 RTTY 100/500 nx items (DG)
12225 Mossad station 1100 ARQ-E 288 wkg BND station. Testing off-freq? (ANEE)
12478 WLBV: M/V Richard G. Matthiesen (T-AOT-1124) 1933 ARQ MSC chartered oiler, w/noon posn rpt, 1318N/07944W. (RB) KNIJ: SS MANULANI 1900 ARQ w/wx obs bbxx. login 10918 KNIJ (WT)
12479 P3CR6: TH Akademikis Zavaritskis 1950 ARQ w/ crew TG's to Riga Radio. GQEH: M/V Moraybank 2054 ARQ w/AMVER/PR, posn 02517N/09217W. (RB)
12479.5 UIJS: TK Aleksandr Tsulukidze 1722 ARQ w/TG from Chief Engineer, master KM Khoshtariya, login 55311 UIJS. (RB)
12480.5 UQJW: TKH Anatoliy Vasl'ev 1921 ARQ w/SVC+ telex tfc. P3HS2: M/V Global Dream 1924 ARQ w/tlx tfc re wages, uses abbrev. GL Dream in msgs, login 00503 GLOM. (RB)
12481 3EEA9: Frio Canada 0141 ARQ tfc for Lavinia, Athens. (AB2)
12482 UTOK: Akademik Yevgeniy Paton 1643 ARQ ETA Callao. 3FXI3: Hero 1740 ARQ AMVER/PR, ETA Guaranao pilot station. (AB2) ELHQ9 : M/T Constitution 1737 ARQ oil tanker, w/AMVER tfc, login 24892 ELHQ. WMLH: M/V Tillie Lykes 1812 ARQ w/'auto- file' tlx tfc, login 11701 TILL. C6SX : M/V Black Sea 2229 ARQ w/tlx in SS re crew provisions, login 70066 C6SX. (RB)
12482.5 C6HE2: Westerdam 1807 ARQ posrep. (AB2)
12483 SQGX: Otol 0118 ARQ posrep, 54.37N/152/09E, selcall 43237. (AB2)
12484 ELRV8: Seaboard Ocean 1811 ARQ obs msg. (AB2) S6CL: Salome 1804 ARQ w/AMVER/PR. WXWL: M/T Delaware Trader 2053 ARQ w/tlx tfc, login 11172 WXWL. HKRX: M/N Excelso 2106 ARQ w/SS tlx, login 72345 HKRX. (RB)
12486 WUT3156: Powhatan 2059 ARQ at Corinto, Nicaragua w/FAX msg, login 10109 WUT3156. (RB)
12487 DUJW: M/V SAPPHIRE 2128 ARQ w/tlx to: Fredensborg. login: 76739 DUJW. (WT)
12490 D8WS: M/V AUTO DIANA 1848 ARQ w/amver/pr 1832n 11138w. (WT)
12493 WRYL: M/V Green Ridge 2311 ARQ w/tlx to Centraship Nola re items needed, login 11974 WRYL. (RB)
12493.5 9HOJ3: Velebit 1343 ARQ ETA Ghazaquet, selcall 13643. (AB2) 3FGZ3: M/V Parnaso 2143 ARQ w/AMVER/SP, login 42050 PARN. (RB)
12494 ELBY4: M/V Sentinel II 1719 ARQ w/AMVER/PR. ELRT2: M/V Polar Argentina 1759 ARQ reefer, w/BBXX wx obs to "meteo Hamburg", login 24783 ELRT. 3ERB5: M/V Africa Star 1835 ARQ w/up anchor tlx, app is ex-Frio Africa? SQPO: M/S Ignacy Daszynski 1823 ARQ Polish bulk carrier w/on-line PP opr chat. (RB)
12495 USSN: TK Aliot 1819 ARQ Ukrainian tanker w/DISP-1 report from master KM Gorostvatov after sending selcall KYXX (UGW, Novorossiysk Radio).

(RB)
12495.5 UTUN: TKH Akademik Iosif Orbli 1936 ARQ w/1 adm tfc to Merktrans SPB, re arrival. (RB)
12496 VCLM: M/V Arctic 1826 ARQ w/BBXX meteo tlx via Halifax CG. (RB)
12496.5 C6HH7: UB Pride 1640 ARQ ETA Hamburg for repairs, selcall 61668. (AB2)
12497.5 BROM: M/V XIAN XIA LING 2228 ARQ w/tlx 4933n 14918w. login 09738 BROM. (WT)
12501.5 N/A: M/V Frio Las Palmas 1755 ARQ unk callsign, w/posn tlx, login 42283 FLPA. N/A : M/V Captain George II 2321 ARQ w/tlx, vsl sailing Victoria via Great Circle route, poss recent name chg as login was 2952x EAGE. (RB)
12503.5 9HCF3: M/V Omiros 1929 ARQ w/tlx for ETA, login 63354 OMIROS. (RB)
12509 WEZM: SS Ewa 2113 ARQ w/tlx for departure report, dep L.A. (RB)
12509 WRJP: R.J.PFEIFFER 1845 ARQ rx only login 03834 WRJP (WT)
12510 OVHF?: M/V Madame Butterfly 1933 ARQ w/tlx re SatComm, FAX & phone out, login 26190 MMEBUT. P3ZY3: M/V Seaduty II 1936 ARQ bulk carrier, w/posn 1908N/6509W, ETA Novorossiysk. 3FJF3: M/V Finnsnes 1951 ARQ w/tlx re arrival report, 26629 FAIRNE. (RB) N/A: MV FRIO ATLANTIC 0145 ARQ w/tlx login 29635 FATL. (WT)
12510.5 ENZZ: TK General Merkzhiladze 1924 ARQ sending selcall. (RB)
12561 UJNE: Okhota 0041 RTTY 50/170 c/s only. (AB2) DQFX: M/V DSR Asia 1645 FEC w/relay of DSR Rostok nx in GG, off w/DE DQFX 73. (RB)
12561.5 UELX: BATM Volopas 1756 RTTY in 50/170 admin TG to K-Grad from master, KM Morozov, this is app the ex-LYGD. (RB)
12562.5 UTYL: RTMS Shepetovka 1650 RTTY in 50/170 crew TG's. ESMC: Unid RS-0186 1812 RTTY in 50/170 admin TG's from master KMD Stepanenko, off w/"DE ESMC". (RB)
12563.5 V2TD: M/V Supertramp 1804 ARQ w/tlx for ETA Pensacola. LAIL2: M/V Dyvi Atlantic 1924 ARQ w/AMVER tfc vsl bound Gabon to France, login 29511 LAIL2. P3UG3: TR Klaypedskiy Bereg 1932 RTTY in 50/170 RYRY/DE no joy. (RB)
12564 UTUO: TH Professor Nikolay Baranskiy 2031 RTTY 50/170 w/admin tfc to St Petersburg Radio from master. UTIZ: TKH Novogorod 2035 RTTY in 50/170 RYRY, then into admin tfc from master, KM Stepanov. (RB)
12564.5 ELQZ5: TR Frost-1 1815 RTTY in 50/170 crew TG's, vsl bound Brazil. URUJ: PB Matochkin Shar 2020 RTTY in 50/170 admin tfc, PB is Plavuchaya Baza, or 'Floating Base'. (RB)
12565 EMPK: BATM Kapitan Buga 1906 RTTY in 50/170 RYRY/DE to UTSW, RTMKS Kapitan Orlikova, & into crew TG's & admin tfc in apparent relay. UUJN: STM Aleksandr Lavrenoy 1909 RTTY in 50/170 RYRY/DE, also to UTSW, & into admin TG's, "Antarktka" used frequently. UBAW: RTMKS Admiral Shabalin 1924 RTTY in 50/170 crew TG's. (RB)
12567.5 UAMD: NPS Zund 2210 RTTY in 50/170 crew TG's, is Ex-EWVV. (RB)
12569 YLFP: RTMS Misa 1601 RTTY in 50/170 fish catch summary from master KMD Dvoryatkin using hull#/ID RTMS-7579, also sends same from YLEP, BMRT Robert Eydeman from master KM Borisevich using hull#/ID BMRT 249, and YLEL, BMRT Gunar Akisas BMRT 575, ex-EWZG. All are Latvian factory fishing trawlers. (RB)
12570.5 UNNI: RTMS Chernyashev 2205 RTTY in 50/170 admin tfc. (RB)
12572.5 USDB: BMRT 10 Pyatiletka 2318 RTTY in 50/170 crew TG's (SVS/MRH). (RB)
12579 NMF: USCG BOSTON 1700 FEC 100/170 fax sked. (DG)
12587 PPML: M/V Frotachile 2133 ARQ w/AMVER/PR, login 58411 PPML. (RB)
12669 LOR: Puerto Belgrano, ARG 0030 RTTY 75/170 "Boletin Meteorologico". (AB2)
12855.5 6WW 2300 RTTY Dakar, Senegal Test loop "FAAA de 6WW. Voici mon testing... Bonne Mer (next message same with "Bon Quart" at end. (LB)
13347.7 MFA Cairo 0915 ARQ wkg Rabat (ANEE)
13348.8 MFA Rome 1100 ARQ wkg all embassies worldwide. Powerful xmitter! off at 1200 after two encrypted cipher change messages to Cairo & Sanaa. At 1015 another day, wkg Addis Ababa, Kampala, Asmara, Sanaa, Khartoum, Maputo, Nairobi embassies w/msgs from the Italian rep to EC concerning minor financial projects for 96. (ANEE)
13366.7 5YD: Nairobi Air 1200 RTTY 50 Off freq again. METAR reports. (ANEE)
13373.4 5YD: Nairobi Air, Kenya 1331 RTTY 50bd/250 "ryry..de 5yd 5yd 5yd". (MC)
13378.5 MFA Rome 0900 ARQ wkg Italian emb. Abu Dhabi, Amman, Beirut, Cairo,

Algiers, Doha, Rabat, Damascus, Tripoli, Muscat, Kuwait, Riyadh, Sanaa, Teheran, Tel Aviv, Tunis and consulate Jerusalem. This has been misidentified before as MFA Madrid. (ANEE)
13378.9 Unid: 0815 ARQ 100/170 prob Italian MFA. (DG)
13398.5 Unid: Italian MFA, Rome 0746 ARQ 5LGs to EU & Middle Eastern embassies (MC)
13401.7 MFA Cairo 0700 ARQ wkg unid prob Rome til 0800 (ANEE)
13419 6XM8: 1551 ARQ-E 288/170 encrypted ARQ-E + w/clear BAUDOT 100/170 running RYs, foxes & 10 counts (SS)
13425.7 MFA ALGIERS 1335 COQ-8 26.7 Tfc in FF to Brussles. Brussels vri weak & won't sync. (DW)
13430 Unid: 1530 RTTY 50/400 5FGs (SS)
13440 YZI: TANJUG NEWS, Serbia 0830 RTTY 50b in EE. (TK)
13443 RFQP, Djibouti 1616 ARQ-E3 100/390 w/"Controle de Voie" to self via "DJI" circuit. (PT)
13444.2 RFQP: 1215 ARQ-E3 100 wkg RFVI. (ANEE)
13466 UNID POLISH EMBASSY 0755 POL-ARQ/100B. (TK)
13467 SNN299: Polish MFA, Warsaw 0746 POL-ARQ 100bd/220/5/I MSGs to Hanio, Tokyo, Bangkok (MC)
13486.7 MFA Cairo 0900 ARQ MOI circulars (ANEE)
13497 Unid: 1545 RTTY 50/450 circulars in SS (SS)
13501.7 MFA Cairo 1000 ARQ w/tfc from Tripoli til 1115. (ANEE)
13506.7 MFA Cairo 0945 ARQ msg from Tripoli, msgs to net control Cairo & from EGI office Tripoli to EGI Cairo. At 1315 in FEC wkg Tripoli til 1345 w/later than normal sked, also ARQ (ANEE) UNK EGYPTIAN MFA 1013 ARQ ATU-80 msgs. (DG)
13510 CFH: CF HALIFAX 1418 FAX 120/576 End of sig wx chart for 25/0000z. (DW)
13510.6 Unid: German Diplo? 1519 MERLIN 228.7bd/200 tfc (MC)
13521.1 SNN299: Polish MFA, Warsaw 0823 POL-ARQ 100bd/285/5/E Parliamentary rpts in EE (MC)
13530 AFS: Offutt AFB, Ne, US 2111 RTTY 75/850 coded meteo. (AB2) Unid: 1948 RTTY 75/850 KAWN meteo (SS)
13541 NNNOMDM Navy MARS 1403 ARQ In irs mode, weaker station iss. Then de NNOMDM aa4RE 2.12i standby" "NNOCRJ de NNOMDM zbo 0/7 ga +?" (DW) UNID: 1643 ARQ Started as 200bd Pactor unid mode. Changed to Sitor/a. Selcals NCAL. At 1943 in Pactor, unid mode. Fail to sync. (DW) Unid: mars 1415 ARQ sc ncwl ncrj nmdm (BvR) (All U.S. Navy MARS -LOGS)
13542 ZRO3: PRETORIA METEO, RSA 1646 RTTY 75/400 Met tfc. GRIDs. (DW) Same, 1838 RTTY 75/428 Aero wx. (PS)
13543.7 RFTJD: 1215 ARQ-E3 192 wkg RFFA. (ANEE) RFTJD: FF LIBREVILLE 0718 ARQ-E3 192/400 8CRC. Betas. Cct [HAI] to Paris. C de v svc at 0805z Paris de Paris. (DW)
13546 SNN299: Polish MFA, Warsaw 0831 POL-ARQ 100bd/250/5/E Claris MSGs to "m:sofia" (MC)
13563 3MA22: CNA Taipei, Taiwan 0836 RTTY 50bd/800 "qra de 3ma22/26/35/28", frequency list, address (MC) 3MA26: CNA NEWS, Taiwan 0830 RTTY 50b in EE. (TK)
13572 `RFFXL': FF Beirut, Lebanon 1300 ARQ-E 72/340 CdeV. Circuit [XXL]. (PS)
13572.4 MOD Paris 1211 ARQ-E 72/400 idle. (ANI) RFFX: MOD PARIS, F 1356 ARQ-E 72/400 idle (SS)
13602.2 NMC: USCG SAN FRANCISCO 0913 FAX 120/576 wx fax. (DG)
13737.4 5YD: NAIROBI AIR 1158 RTTY 50/400 RY's . (DG)
13867.4 Unid: ??? 1639 ARQ clg "XQKM" (MC) (PTT Kinshasa, Zaire in FF seen logged here before in ARQ, not confirmed -LOGS)
13875.8 HGX21: MFA BUDAPEST 0728 ARTRAC 125/170 Diplo nx summary in Hungarian HGX41 (Damascus) de HGX21. Changed to irs mode. (DW)
13886.7 RFFA: MOD PARIS, F 1215 ARQ-E3 192 wkg RFTJD. (ANEE) Same, 1400 ARQ-E3 192/425 idle (SS)
13903 Unid: German Diplo, ??? 0750 ARQ-E 96bd/200/8/I crypto (MC)
13933 DOR: Sofia, Bulgaria 0949 RTTY 150/491 w/traffic in Bulgarian. (PT)
13940.7 RFFA: FF PARIS, F 1230 ARQ-M2 200 wkg RFFVAT. (ANEE) FF PARIS [RFFA]? 1425 ARQ-E3 200/400 8crc.Betas. (DW)
13951 HDB20: MFA BERNE, SUI 1402 ARQ 5lgs (SS)
13953 RFGW: MFA PARIS 0744 FEC-A 192/400 Tfc in FF to O9B 7DA etc. (DW)
13954.5 HDB20: MFA BERNE, SUI 1315 ARQ 5LGs (SS)
13965.5 HDB20: MFA BERNE, SUI 1400 ARQ 5lgs (SS)

13966.5 Unid: 1616 FEC 5lg's with "suite1","suite2" at end, ff op msg. (ED)
13976 HBD61: Swiss E, Cairo 1238 ARQ 5LGs to HBD20 (MFA Berne) (MC)
13986.7 RFFA: FF PARIS, F 1230 ARQ-E3 192 wkg RFQP. (ANEE) Same, 0928 ARQ-E3 192/400 8crc. Betas.Poor sync. No traffic decoded. (DW) Same, 1411 idle (SS)
14362.5 DOR: MFA SOFIA 1040 RTTY 75/500 nx items (DG)
14365 Unid: 1145 PACKET USA-Ghana link calls KDUA-9G1OH also pactor 100 til 1215 no messages (ANEE)
14366.7 BZP54: XINHUA, Beijing 1238 RTTY 75bd/400 "ry..ry xinhua beijing", NX in EE (MC)
14376 DOR: MFA SOFIA 1503 RTTY 75/500 nx items. (DG)
BZT34: XINHUA BEIJING, CHN 1510 RTTY 75/500 Russian News (SS)
14384 Unid: RUS 0758 81-81 81bd/200 tfc (MC)
14384 Unid: 1534 RTTY 75/483 Nx in Bulgarian(+informaciy+) about Iran. (SS)
14421.4 Unid: 0845 PACTOR 200 prob. UNHCR Europe (ANEE)
14452 HMF57/49: KCNA, Pyongyang 0753 RTTY 50bd/230 "ry...ry qra de hmf57/49" (MC)
14460.5 Unid: 0732 VFT: 2ch of Piccolo-6, eng ch idle (MC)
14460.9 Unid: 0733 VFT: 2ch of Piccolo-6, crypto tfc (MC)
14462.5 Unid RTTY 100/350 w/AAXX for Kenya, Togo, Congo, etc, seems to be 24Hr. Not in Klingenfuss or Freq. Manager, can anyone ID this? (RS2) [Mike Chace later posted this is probably TNL, ASECNA Brazzaville -LOGS]
14467.3 DDH8: Hamburg Met, Germany 1528 RTTY 50bd/400 "ry...ry cq cq cq de ddh47/ddh8/ddh9" ID (MC)
14486 RFGW: MFA PARIS 0758 FEC-A 192/400 Weak signal. Idling on rq's. Inverted? Faded out. (DW)
14501.7 MFA Cairo 1215 ARQ wkg Moscow and EGI Cairo special security office to consulate Kiev via embassy Moscow; Cairo Health Information Administration msgs to many embassies (ANEE)
14527.8 KUD***: 0810 VFT: 3ch of 96bd/85/I FEC-100, (0/1200/2050Hz) 5LGs, opchat in EE (MC)
14535 Unid: RUS 0813 FEC 96bd/500 UNID FEC System, Sync cont, No ACF, M:S=1:1 (MC)
14549.7 MFA Cairo 0900 ARQ selcalling unid African embassy til 0930 (ANEE)
14575 RFGW: MFA PARIS 0918 FEC-A 192/400 Tfc in offline (5LG's) encrypt. Page break "page 6 RFGW #1245". (DW)
14585.7 RFPTC: 1300 ARQ-M2 200 wkg RFFA. (ANEE)
14621.7 MFA Cairo 0900 ARQ MOI circulars to many embassies til 1000. At 0930 another day Embassy Islamabad til 1000 (ANEE)
14626.7 RFLI: 1300 ARQ-E3 192 wkg RFTJ. (ANEE)
14637 Unid: 1308 ARQ6-98 100/180. (ANI)
14639 KPL, Laos 0840 RTTY 50b Nx in EE. (TK)
14661 Unid French Diplo 0825 ARQ6-90 200bd/340 in IRS mode, "73" in CW at end of msg (MC)
14664 Unid: 1838 36-50 50bd + 36bd idle w/ACF=2 (SS)
14678 V5G***: Romanian MFA, Bucharest 0813 ROU-FEC 164.5bd/400 crypto (MC)
14681 MFA Bucharest, ROU 1330 ROU-FEC 164.5/300 tfc from romanian MFA. (ANI) V5G: MFA BUCHAREST 1103 FEC-ROU 164.5/400 Traffic in online encrypt. (DW)
14707 JPA: INTERPOL 0230 ARQ JAPAN. (TK)
14753 Unid: 1532 PSK 2400bps UNID System (MC)
14761.5 USN MARS 1300 ARQ. (ANEE) NNN0MDA: MARS 1504 PACT Various tfc & svs's until end qso. (DW) NNN0xxx: Various USNMARS 1252 PACTOR-1 100bd/200 Mailbox fwding (MC)
14798.7 RFFA: 1300 ARQ-E3 200 wkg RFFVAE. (ANEE)
14809.7 Egyptian Embassy Tunis ARQ 1030 wkg MFA Cairo til 1200 (ANEE)
14867.7 MFA Cairo 1600 ARQ off at 1600 (ANEE)
14901.7 MFA Cairo 0700 ARQ wkg Rome til 0800 (ANEE) Egyptian E, Saan'a 0955 ARQ ATU-80 fm "xgo---ke" to MFA Cairo (MC)
14903 SNN299: MFA WARSAW 1143 POL-ARQ 100/170 polish lang msgs (EW)
14912.5 SOO 291: PAP WARSAW, POL 1432 FEC economic nx in Polish (SS)
14923 BAP44: Beijing, CHN 0144 RTTY 75/1000 XNZ nx in EE. (AB2)
14926.7 RFTJ: 1315 ARQ-E3 192 wkg RFTJD. (ANEE)
14936.5 Unid: 1545 ARQ til 1615 (ANEE) (USN NAVMARCORMARS -LOGS)
14957.1 KGD34: NCC, Arlington, VA 1945 PACTOR AAA6USA, USA MARS, Ft. Sam Houston, TX, w/PACTOR SHARES msg relayed from AAR5FD, USA MARS, Riverton, IL. (JM)

14959.7 RFTJ: 1315 ARQ-E3 192 wkg RFTJD. (ANEE)
14960 RFLI: FF FORT DE FRANCE, MRT 1436 ARQ-E3 192/350 idle (SS)
14976.7 MFA Cairo 0930 ARQ London til 1000. At 1015 wkg Dakar til 1045. (ANEE)
14982.5 RBV76: TASHKENT METEO 1137 FAX 120/576 weather map (EW)
14986.7 Egyptian E, unk loc 0809 ARQ ATU-80 tfc (MC)
15026.4 Unid: 1522 HF Datalink, "squitter" every 24s (MC)
15041.7 Unid: Egyptian E, ??? 0806 ARQ ATU-80 tfc (MC)
15462 JANA NEWS AGENCY, TRIPOLI 1135 RTTY 50/425 FF news (EW)
15541.7 MFA Cairo 1545 ARQ wkg Bamako, idle only (ANEE)
15667.5 FDY: 1000 RTTY 50 test tape til 1515 (ANEE)
15688 6XM8: BNDVB BONN RADIO 1131 ARQ-E 288/170 encrypted text (EW) Same, at 1442 w/enc tfc (SS)
15701.7 MFA Cairo 1045 ARQ wkg embassy Manama, Bahrain til 1130 (ANEE)
15716.7 MFA Cairo 0715 ARQ wkg Prague (ANEE)
15729.2 MFA Den Haag 1330 ARQ idle as usual. (ANEE)
15730.2 Unid: 1743 ARQ sc tvpx and at 19.20 tvmy could be Dutch sc but Pcw 1 CW marker on 15.729.2 also on causing qrm (BvR)
15731 (SUNA), Khartoum, Sudan 1603 RTTY 50/220. Religious msg in FF followed by frequency sked & RY's.//19463.0 much weaker. (PS)
15781 NHF Puerto Rico 2155/2215 FAX wx maps excellent (LB)
15851.6 Unid: 1230 PACTOR 200 command HQ poss. NATO IFOR (ANEE)
15857.6 Unid: 1128 RS-ARQ 228/425 cannot decode (EW)
15860 RFFX: MOD PARIS RADIO 1127 ARQ-E 72/425 idle no traffic (EW)
15904.5 Irish Navy vsl 1530 ARQ selcalling pt-44/wx office til 1600 (ANEE)
15922.2 Unid: RUS 1208 MS5 12 tone vocoder (3300Hz pilot) (MC)
15962 `RFLI': FF Fort De France, Martinique 1746 ARQ-E3 192. CdeV on Circuit [BFL]. (PS)
15993.7 Unid: 1107 ARQ idled for 35 minutes no traffic off 1119 (EW)
16006.7 MFA Cairo 1530 ARQ wkg Harare til 1630 also FEC. (ANEE)
16016.7 MFA Cairo 1400 ARQ w/tfc from N'Djamena. Normally a Europe-Cairo circuit (ANEE)
16018.7 MFA Cairo MOI 0945 ARQ press clippings to european embassies (ANEE)
16021.7 MFA Cairo 1600 ARQ wkg Unid til 1615. (ANEE)
16023 Italian E, unk loc? 0816 ARQ-E 96bd/170/8/E idle on betas/RQs (MC)
16027.5 NPN: GUAM RADIO 1027 FAX 120/576 weather map (EW)
16040.2 Warsaw 1815 POL-ARQ 100/170 ? 6 CRC, press sent to South American locations (ED)
16051.8 CLP55: 1448 RTTY 50/450 RYs + esta es la estacion clp 55 dando (SS)
16057 Romanian E, unk loc 0939 ROU-FEC 218.3bd/400 crypto tfc (MC)
16071.7 Egyptian Embassy, Kampala, Uganda ARQ wkg MFA Cairo & sending circulars til 1430 (ANEE)
16087.7 RFFA: 1330 ARQ-E3 100 wkg RFFVI. (ANEE) RFVI: FF Le Port 1537 ARQ-E3 100 idle (BvR) RFVI: French Forces, Le Port Reunion Isl 1741 ARQ-E3 C de V on circuit REI. (RB)
16102 HBD20: MFA BERNE RADIO 1057 ARQ 5 letter grps (EW)
16106.8 SAM Stockholm 1653 ARQ-SWE 100/400 embassy, Sw. msg. (ED)
16108 HBD20 Berne: 1250 ARQ GG msg. (ED)
16125.2 RFFA: 1330 ARQ-M2 200 wkg RFQP. (ANEE)
16136 BZP54: XINHUA, Beijing CHN 1022 RTTY 75/425 EE news (EW) BZR68: XINHUA, Beijing 0728 RTTY 75bd/400 NX in EE (MC)
16143.7 RFLI: FF Fort de France 1539 ARQ-E3 192 idle (BvR)
16153 MFA MOSCOW? 1015 PICOLLO 33 TONES encr text (EW)
16171.7 MFA Cairo 0730 ARQ wkg Rome, also rome prob to relay tfc to Paris, Bonn, London, Athens, Ankara, Nicosia, Madrid, Brussels, Wash DC, Moscow (ANEE)
16179.6 CLP1: MFA Havana, CUB 1812 RTTY 50/479 circulars until 1937. (RM)
16193.2 RFQP: 1330 ARQ-M2 200 wkg RFFA. (ANEE) RFQP: FF Jibuti 1540 ARQ-M2 200 idle (BvR)
16205 MKK: RAF LONDON 1423 PICC//VFT 2 channel piccolo vft on USB. (DW)
16205.5 MKK: RAF LONDON 1425 PICC 16205.510. Eng chan in vft. Idle. (DW)
16205.9 MKK: RAF LONDON 1424 PICC 16205.910. Channel in vft. Idle. (DW)
16207 Unid: RUS 1143 36-50 36bd/200 idle on reversals (MC)
16208.5 Unid: 0843 Piccolo-12, short crypto msgs, w/5 secs idle between (MC)
16209.9 MFA Oslo 0800 TWINPLEX 100 (ANEE)
16216 Unid: 1345 USB AHE-facilitated phone calls from Goma, Zaire unid lang. (ANEE)

16267.2 Unid: 1230 ARQ idle til 1300 (ANEE)
16268 MFA Belgrade 1230 FEC-A 96 wkg Baghdad embassy, new mode this ckt (ANEE)
German Embassy, Brazil 1400 ARQ-E 96/124 tfc in GG to DMK. (PS)
16270 Unid: 1220 UNID 300bd don't know what this is. (EW)
Unid: ROYAL NAVY, G 1518 RTTY 75/850 RYs followed by VMGTCNJ into encryption (SS)
16273.6 Algeria 1514 COQUELET 8-Tone FF msg.to Embassies from Algiers (ED)
16280 Unid: 1542 ARQ-M2 200 Fr tfc (BvR) (both RFFA & RFQP logged here before -LOGS)
16283.1 "RFHWWO" Papeete Meteo Civ, Papeete 2100 ARQ-M2 128.5/100 also AFP news, Ch. A, C.I.="IOB" (ED)
16284.9 MFA Oslo 1115 TWINPLEX 100 (ANEE)
16312.5 C37A: 1010 ARQ-E 192/170 some say mossad israel w/encr text (EW)
16318.4 Algeria 1337 COQUELET 8 tone ? FF press, msg. to various embassies (ED)
16318.7 MFA Cairo 1300 ARQ wkg Algiers, Bonn and EGI special security office Tunis til 1430 w/lots of msgs! (egi=egyptian general intelligence). At 1130, wkg Tunis til 1430. (ANEE)
16323 Unid: 1504 RTTY 75/400 u1064 248988 07000 9917 zpzpzpzpzpzp: into enc tfc + ended w/qru qsl?/rrr/ok ome tks 737373 sksks (SS)
16327.7 MFA Cairo 0815 ARQ idle, idles only till 1300. (ANEE)
16332 V5G: MFA BUCHAREST 1110 FEC-ROU 164.5/400 Traffic in online encrypt. (DW)
16551.8 Unid: 1505 ARQ sc tvvx (BvR)
16567.6 MFA Cairo 1200 ARQ wkg Tunis & Ministry of Info Cairo, Tunis (ANEE)
16576.8 Unid: 1650 FEC "rcvd fm 666/c5 at 22/2 16.35z" (BvR)
16616.7 9HSF2: Mv Seaguardian 1626 ARQ tlx tfc (chnl 3) company freq? (BvR)
16685.5 WFGV: Overseas Washington 2330 ARQ ETA Chiriqui Grande, selcall 11207. (AB2)
16687 ELAJ6: M/V ROSINA TOPIC 1811 ARQ rx only login: 24487 ROSTOP (WT)
16687.5 3EAW7 : M/V Sea Rider 1655 ARQ car carrier w/ETA Cristobal, ex-Pacific Rider? (RB) JGBY: CHIKUZEN MARU 2135 ARQ w/amver/pr 0805n 14624w. (WT)
16688.5 C6JS: Duncan Island 1822 ARQ AMVER/PR 27.27N/71.39W, selcall 27631. (AB2) VTCN: M/V Lok Pratima 1659 ARQ w/posn report, login 23592 LKPM. (RB) ELPL3: M/V CHOYANG VOLGA 2117 ARQ w/tlx 4038n 06717w. login 24974 CHVO. (WT)
16689.5 UUHN: Pyotr Krasikov 0109 RTTY 50/170 RY's & DE. P3HA5: Baftiftiysk 2158 ARQ ETA Balboa. (AB2)
16690 CLPC: Matanzas 1616 ARQ w/tlx for ETA, login 27507 DRIV. (RB)
16694 ENWU: Roman Karmen 1722 ARQ tlx tfc for Iceland voa KPH. (AB2)
16697 LDTY: Soerlandet 1648 ARQ w/tlx of documents for U.S. Customs. (RB)
16699.5 LAUG4: M/V Brunto 1644 ARQ w/tlx re sailed Paita, login 26215 BRUNTO. (RB)
16702 UOAW: TKH Fatezh 1653 ARQ w/tlx to Azov London, ASC Mariopol, per chg listed in 93ITU c/s should be UWDL, but UOAW still used. (RB)
16703 KLPN: SS Galveston Bay 1620 ARQ w/tlx re arrival Balboa. (RB)
16706.5 KCDK: M/T GUS W. DARNELL 2126 ARQ w/psn rpt, 1334n 17931w, eta Kwajalin. (WT)
16713 9HLW4: TH Novorossiysk 2323 ARQ crew TG's, selcall 72051. (AB2)
16779.7 9HSF2: MV Seaguardian 1603 ARQ mgs to Eastern Mediterranean Athens also relay mgs to other ships company freq? Mv Marry ship 30313 1135 ARQ tlx tfc with Eastern Mediterranean Athens (BvR)
16795.5 Unid: 1529 FEC Unid mv EE nx "end of px de wdx pls pass to others/back to centro 73 to all" (BvR) (usually relay of nx from Philippines for Filipino sailors -LOGS)
16809.5 VIP: PERTH RADIO, AUS 0937 ARQ w/CW station marker (EW)
16810.5 FFT: SAINT LYS RADIO, F 0943 ARQ w/CW station marker (EW)
16815 9VG: SINGAPORE RADIO 0945 ARQ w/CW station marker (EW)
16818.5 9VG: SINGAPORE RADIO 0945 ARQ w/CW station marker (EW)
16821 VRX: VICTORIA HBR RADIO, HKG 0954 ARQ w/CW station marker (EW)
16822.5 9VG: SINGAPORE RADIO 0951 ARQ w/CW station marker (EW)
16831 VRX: VICTORIA HBR RADIO, HKG 0946 ARQ w/CW station marker (EW)
16843 `JMS': 2230 RTTY 75/525 after call up "QTA NR 066" sent twice. Then into 5lg's. At 2237 signal drops, back up 30 sec later w/MARK tone, drops again no return. (PS) (Brotherhood/Soud station -LOGS)
16868 9VG: SINGAPORE RADIO 0947 ARQ w/CW station marker (EW)

16870.5 DZJ: BULACAN RADIO 0957 ARQ w/CW station marker (EW)
16880 XSQ: GUANGZHOU RADIO, CHN 0944 ARQ w/CW station marker (EW)
16892 XSG: SHANGHAI RADIO, CHN 0941 ARQ w/CW station marker (EW)
16898.5 UAT: MOSCOW RADIO 0738 ARQ Indications Russian, text 3SC. Also one msg in EE ends"+++mailbox empty". Appears to be working UCDR. Signs off "UAT auto bye.." then cw marker "de UAT". (DW)
16918.2 MTO: RN ROSYTH, G 1514 RTTY 75/850 CARB msg. (SS)
16930.1 9MR: JONOR BAHARU RADIO 1001 RTTY 75/850 ry line count (EW)
16957.3 FUJ: FR NAVY NOUMEA 1004 RTTY 75/850 ry line count (EW)
17476.7 MFA Cairo 0815 ARQ wkg Paris til 0900 (ANEE)
18040.5 Unid: 1108 RTTY 50/750. (ANI) (TCY4 AA Ankara? -LOGS)
18046.7 MFA Lisbon 1045 ARQ wkg Kinshasa til 1500. (ANEE)
MFA Cairo 1400 ARQ wkg Paris relaying for embassy Moscow details abt Yeltsin speech til 1500 (ANEE)
18050.5 Unid: 1430 ARQ Indonesia? idle. (ANEE)
18059 MFA Warsaw 1430 POL-ARQ 200 wkg Ottawa. (ANEE)
18059 DJBT***: French E, Djibuti 1336 ARQ6-90 200bd/400/E 5LGs "sv dipl de djbt" (MC)
18173.5 STK: KHARTOUM AIR 1415 RTTY 50/400 Testing "zczc HSSSYFYX" & ry's. (DW)
18211.7 MFA Cairo ARQ 1230 wkg unid embassy til 1245 (ANEE)
18213.9 MFA Oslo 1045 F7B 100 tfc til 1115. (ANEE)
18220.9 CNM76X9: MAP RABAT, MRC 1353 RTTY 50/380 nx in EE. (SS)
18242 ZRO4 Pretoria 1252 RTTY 75/400 meteo (ED)
18289.5 UNID (GERMAN ?) 0658 RS-ARQ/288B. (TK)
18319 OMZ: MFA PRAGUE 1046 RTTY 75/425 news items in czech lang (EW)
18352 Unid: Romanian E, ??? 0845 ROU-FEC 218.3bd/400 crypto tfc (MC)
18411.5 JKT: JAKARTA DIPLO RADIO 1038 FEC-S 96/170 diplo msgs in Indonesian & EE. (EW)
18412.1 CLP1: MFA HQ Havana, Cuba 2000 RTTY 50/443. Diplo Circulars (MINIREX) to missions abroad in SS. (PS)
18416.5 MFA JAKARTA 0555 SI-FEC/96B INDONESIA. (TK)
18445.4 MFA Oslo 1045 ARQ tfc til 1115. (ANEE)
18461.7 MFA Den Haag 1200 ARQ idle til 1215 (ANEE)
18471.5 MFA Rome ARQ 1030 wkg Embassies in Budapest, Algiers, Amman, Beirut, Cairo, Damascus, Doha, Kuwait, Muscat, Rabat, Riyadh, Tunis, Tripoli, Sanaa, Teheran and Tel Aviv til 1130 w/some msgs 1000+ grps! (ANEE)
18490 Unid: Moscow Meteo, RUS 0859 TORG-10 100bd/500/E Exchange rates, NOAA orbit predictions (MC)
18513.8 MFA Oslo? 1300 TWINPLEX (ANEE)
18532.8 Unid: 1310 FEC-A 96/85 in FDM, 5lg's, no ID (ED)
18552 V5G: MFA BUCHAREST 1113 FEC-ROU 164.5/400 Traffic in online encrypt. (DW)
18646.7 MFA Den Haag 1200 ARQ idle til 1215 (ANEE)
18688 MFA Stockholm 1045 SWE-ARQ 100 wkg Algiers til 1100. (ANEE)
18721.7 MFA Cairo 1530 ARQ wkg Harare til 1630. (ANEE)
18746.7 MFA Den Haag 1045 ARQ wkg Tripoli (ANEE)
18762 V5G: MFA BUCHAREST 1115 FEC/ROU 164.5/400 Traffic in online encrypt. (DW)
18946.8 Unid: 1530 FEC-A 96/85 In FDM, another ch. 1 khz. above, 5lg's, nnn, no ID. One finds this signal/format on many freqs. (ED)
19216.7 RFLI: FF FT DE FRANCE 1434 ARQ-E3 92/400 8crc.Betas. Cct [LIH] to Papeete controle de voie at 1439z RFLI de RFLI. (DW)
19362.9 NRR: USN ROOSEVELT ROADS 1520 FAX 120/576 AWS upper air charts for Central/S America. Small chartlet. (DW)
19390 Unid, Brazil? 1550 ARQ-E 96/170 GG msg, to MFA Bonn (ED)
19567.7 EGI Cairo 0945 ARQ wkg EGI office Algiers and Min. info higher council to Min. info rep Algiers til 1015. MFA Cairo 1430 ARQ wkg Muscat and Algiers til 1500 w/admin tfc (ANEE)
19655 Unid: 1417 RTTY 100/400 5lg's, "nil qru" at end (ED)
19699 UFN: NOVORSSIYSK 1119 ARQ maritime tfc (DG)
19807.9 MFA Oslo 1000 ARQ tfc til 1030 new circuit. (ANEE)
19853 V5G: MFA BUCHAREST 1119 FEC-ROU 164.5/400 Traffic in online encryption. (DW)
20012 Unid: 1430 ARQ unid diplo w/5lgs til 1500. (ANEE)
20019.8 Cuba 1601 RTTY 75/170 Minrex, 5FG's. (ED)
20020 Unid 0658 unid 228/208 wouldn't decode. (AB3)
20036.7 MFA Cairo 1015 ARQ wkg Dakar til 1045. (ANEE)

20045 Unid: 1516 RTTY 75/400 5lg's, preceded by 5 5NG's (b-hood?) (ED)
20140.4 `YBU': 2200 RTTY 75/525. 5 fg's. (PS) (Brotherhood/Soud station -LOGS)
20352 Unid: 1430 ARQ unid diplo w/5lgs til 1515. (ANEE)
20401.5 MFA Jakarta 1345 ARQ selcalling embassy Lagos, Nigeria til 1430 no contact made (ANEE)
20815 HBK83: UNHCR rep to IFOR? PACTOR 200 wkg UNHCR Geneva til 1300 (ANEE)
20930 Unid: 1500 ARQ-E 72 idle til 1600 then off air. (ANEE)
21144.2 Unid: 1545 ARQ idle til 1615. (ANEE)
21147.7 Unid: 1545 ARQ-E3 192 idle. (ANEE)
21172.7 Unid: 1545 ARQ-E3 192 idle. (ANEE)
21353 MFA Bonn 1545 ALIS 228.5 (ANEE)
21656 Unid: 1545 ARQ unid diplo w/5lgs til 1615, poss. MFA Rome? (ANEE)
29809.9 MFA Oslo 1415 ARQ Oslo or Copenhagen w/ 5lgs til 1500, weak. (ANEE)
29965.7 Unid: 1430 ARQ-M2 200 tfc til 1445. (ANEE)

=MARITIME=

2182 P3KX2: Mv Kim 1821 USB clg Marseille radio. PJIY: Mv Amethist 1727 USB clg Humber r qsy chnl S. PJIY: Mv Amethist 1743 USB clg Humber r qsy chnl S. 3VB: Bizerte r. 1836 USB ann 1687.4 khz. Mv Grahmpian Otter 1816 USB clg Wick radio qsy chnl A. (c/s GDJX -LOGS) GBXW: Mv Iolair 1816 USB clg wick radio qsy chnl Delta. MV Grahmpian Eagle 1838 USB clg Stonehaven r qsy chnl I. (BvR) (c/s GUJY -LOGS) NMR1: USCG San Juan, PR (GANTSEC) 0244 USB w/ann. (DF) VCF: Mont-Joli, Que. CG Radio, CAN 0132 USB with securite preamble in FF & EE. (JP) NMY42: USCG Group Moriches,NY 0120 USB w/ann re 405 EPIRB (405 Mhz Emer Posn Indicating Rdo Beacon) activation from the F/V Jason M. Danielle, a 93 foot fishing vsl at posn 3940N/07150W, req vsls in the area keep sharp lookout, assist if possible. NMR1: GANTSEC, USCG Greater Antilles Section, San Juan, PR, "CG San Juan", 0523 USB wkg tug Tropic Sea Horse who is pulling a 110' barge taking on water north of Cuba. QSY 2670. NMR1: GANTSEC 0910 USB w/pan-pan ann of a Boeing 757 down near Puerto Plata, DR, w/189 POB's, was Alas Domincanas flt 301. (RB)
2204 PAMI: Hrms Van Nes 1557 USB clg Noordwijk radio req pp. PAVA: Hrms Van Speyk 1710 USB ww Noordwijk radio req pp. PAZI: Hrms Zuiderkruis 1604 USB clg Noordwijk Radio req pp. (BvR)
2311 Fishermans nets 1012 USB. (MS2)
2412.5 Unid Fishing net 0940 USB No IDs, EE language. Fishermans nets 0219 USB. (MS2)
2416 Fishermans nets 1010 USB. (MS2)
2416.2 Unid Fishing net 1015 USB EE (Canadian) language net. (MS2)
2520 PIQN: mv Wilma UK88 1730 USB w/Scheveningen Radio. PDKF: mv Christina ZZ4 1803 USB wkg same. (AB)
2520 PDQO: mv Dirke Alja UK292 1806 USB wkg same. PDME: mv Cornelia Johannes VD77 1809 USB wkg same. PFDP: mv Johanna Maria SCH118 2201 USB wkg same. DENP: mv Gerda Maria 2216 USB wkg same. PFJS: mv Klaasje Catharina UK317 2218 USB wkg same. DENR: mv Dirk-Dirk 2225 USB wkg same. PEQD: mv Hendrikje UK59 2215 USB wkg same. PIHA: mv Victress 2240 USB wkg same, posnrep. PEEV: mv Futura 2242 USB wkg same, posrep. PC2570: mv Terranova 1953 USB wkg same. OSVB: mv Nidojoa 2 2004 USB wkg same. PGMB: mv Olga 1341 USB wkg same, posrep. PGWD: mv Prins Johan Willem Friso 1355 USB wkg same, pp. PIHA: mv Victress 1443 USB wkg same, posrep. HP8527: mv Reski (??) Magic 1455 USB wkg same, pp. PFJS: mv Klaasje Catharina UK317 1503 USB wkg same. Radio check. 3EWN4: mv Loreley 1524 USB wkg same w/pp. C6MK7: mv Tysso 1528 USB wkg same, pp. 9HHH4: Unid vessel 1528 USB wkg same. PHAT: mv Riekelt Brands UK162 1539 USB wkg same w/pp. OPDS: mv Jeanne 1540 USB wkg same w/Radio check. PHVW: mv Sturgeon 1546 USB wkg same. V3QO7: Unid vsl 1553 USB wkg same. PCIK: Unid vessel 1605 USB wkg same. P3UV4: mv Calypso 1606 USB wkg same. PHIZ: mv Scheldeborg 2238 USB wkg same, posrep. PDHV: mv Carla Maria WR2 2240 USB wkg same, posrep. DFQK: mv Henny 2 1132 USB wkg same. PFKW: mv Kon Beatrix 1135 USB wkg same, posrep. MKCE7: mv Christina 1136 USB wkg same w/pp. PGHQ: mv Noorderlicht UK197 1155 USB wkg same w/pp. DIYU: mv Maritje Keuter 1159 USB wkg same w/pp. MPSE3: mv Antje de Vries 1201 USB wkg same w/pp. PGRI: mv Perini 1207 USB wkg same. PDXZ: mv Victor 19 1213 USB wkg same. OPGF: mv van Dick Z162 1232 USB

wkg same. Radio check. P3BRG: Unid 1232 USB wkg same, who wanted to know if c/s was correct (it doesn't exist!!). Station answered "uhh, yes, just testing" but didn't say who he was. PCRK: mv Anna Hendrika KW45 1208 USB wkg same. C6HI4: mv Esso Mexico 1234 USB wkg same. PIHY: mv Volans 1235 USB wkg same, posrep. PFWG: mv Marinier 1250 USB wkg same, posrep. PHKH: mv Semi 2 1308 USB wkg same, posrep. PDWY: mv Elsiabeth G 1319 USB wkg same. (AB) MPSE 3: Fv Antje de Vries 1730 USB clg pcg qsy chnl B. MFAE 9: Fv St. John 1745 USB clg pcg qsy chnl D. PDKB: Mv Combi Trader 1750 USB clg pcg qsy chnl C. PDHF: Mv Brouwersgracht 0624 USB clg pcg. PDTY: Mv Dutch Master 0627 USB clg pcg 13.30 Maascenter. PFTS: Mv Marietje Andrea 0630 USB clg pcg with track eta Antwerp tomorrow. PGWA: Mv Prins Willem 2 1635 USB clg pcg qsy chnl B. PFRG: Mv Magda 1641 USB clg pcg with track. PCIB: Fv Albert uk 1 1741 USB clg pcg. MPSE 3: Fv Antje de Vries 1743 USB clg pcg. PGPD: Fv Orion uk 97 1801 USB clg pcg (BvR)

2598 VCP: CCG St Lawrence CG Rdo 0306 USB PQ, CAN w/pan-pan ann re man overboard from M/V Infra, 3EPS3, in areas 3933N/05814W, 3339N/05753W, req any sightings be reported RCC NY or RCC Halifax. (RB)

2614 Norddeich R.0138 USB w/msg in EE, GG & possibly 3rd language. (LB)

2749 VAU: Yarmouth C.G. Radio, CAN 0000 USB w/wx. in EE & FF. (DF)

2824 PCG: Scheveningen Radio Holland 1846 USB continuous loop in EE, then Dutch saying channel out of service due to interference; listen to/use 2060 and 1716. (MS2)

3178 LXAM 2303 USB wkg Oostende R on 2484 kHz. Asked the operator if he could send 2 telex msgs. because of trouble with the ships telex equipment. in Dutch. (HH) (M/V Antwerpen -LOGS)

3201 Unid: 0121 USB 2 boaters chatting. (RM)

4071 LENA3: SONG OF AMERICA WKG WOM CH403. ELBM9: TROPICALE WKG WOM CH403. (HW2)

4077 R/V Lake Guardian/WAD9082 UTC? USB 100w/21'vert/G.Lakes USEPA (JSM)

4098 3EWK9: FASINATION WKG WOM CH412. 3EWJ9: IMAGINATION WKG WOM CH412. ELJV7: NORDIC EMPRESS WKG WOM CH412 (HW2)

4113 C6LW2: REGAL EMPRESS WKG WOM CH417 (HW2)

4131 C6KP: FESTIVALE WKG WOM CH423. ELKI6: FANTASY WKG WOM CH423. ELRR5: LEGEND OF THE SEAS WKG WOM CH423 (HW2)

4308 DAN: Norddeich Radio, Ger CW w/CQ marker. (SM)

4366 VIM: Melbourne radio 1014 USB pp w/unid vsl. (AW)

4372 5BA22: Cyprus Radio 2309 USB w/voice marker, YL, "this is Cyprus Radio telephone maritime service". (RB)

4384 VAI: CCG Vancouver CG Radio 0200 USB BC, Canada w/coastal marine forecast from U.S. NWS Anchorage, Alaska. Also at 0700 w/same. (RB)

4384 GKT20: Portishead Radio, G 0600 USB w/tfc list. (RB)

4411 VIT: Townsville radio 0925 USB pp w/unid vsl, RX 4119. (AW)

4426 VIM: Melbourne radio 0953 USB wx report to the area. (AW)

4483 Gold Coast Radio Queensland 0720 USB wx report to the area. (AW) [anyone have a c/s for them? LOGS]

5581 Spanish fishermen 0715 USB (ANEE)

6389.1 WNU42 0016 CW (LB)

6414.5 7TF4 Boufarik Radio 0015 CW clg CQ (LB)

6470 SXA: PIRAEUS RADIO 2038 CW station marker (EW)

6507 VIB: Brisbane radio 0635 USB wx report to the area. (AW)

6516 Unid US stns (Limited Coastal) 1155 USB one ID's as "390", Dixie accent; woman seemed to be on ship, & man at land stn. (MS2)

6710 Fishermen outbanders QTC? USB unid language. (CM)

6715.5 Unid Fishing net UTC? USB Net in Unid language. (MS2)

6837 Unid Fishing net UTC? USB Net in SS. (MS2)

6974 Spanish Fishermen 0915 USB wonderful vocabulary (ANEE)

7655.5 Out-of-band fisherman 1356 USB SS net. (MS2)

8116 Russian maritime station callups 0915 USB (ANEE)

8149.8 Out-of-band fisherman 1419 USB Fishermen's net in SS; multiple stns. (MS2)

8176 VIS: SYDNEY RADIO 1103 USB Wx & Warnings. (DA2)

8198 LENA: M/S Song of America 2342 USB clg WOM. C6DM2: M/S Seaward 2349 USB clg WOM. (JP) 3EWJ9 Unid vsl 1530 USB w/WOM for att R/T call, but party not found on board. (MS2)

8222 LAEB2: M/S Sovereign of the Seas 2215 USB 73,192 DWT Royal Caribbean Cruises cruiseship, concluding R/T tfc w/WOM. (RB)

8234 6MPQ: Daeyang 302 0015 USB S. Korean F/V concluding R/T tfc to S.

Korea w/WOM. (RB)
8258 9HOY4: unid vsl 0723 USB clg HEB18 Berne radio, no joy. (AW)
8294 WHK: Coastal Tug & Barge, 0406 USB Miami, Fl. "WHK Miami", clg tug Coastal Key West, no joy. (RB)
8348 P3MG6: M/V Procyon 0027 CW sending 3 msgs via unid coastal sta. (RB)
8349 V7AO9 m/v INDUSTRIAL BRIDGE 1211 CW w/KPH @ 34-13N/166-07E strg 097 deg @ 14.0 kts for Buenaventura, Colombia (JSM)
8360 DSDL5 m/v PAN BRIGHT 2148 CW w/KPH @ 49-45N/134-05W strg 298 deg @ 12.5 kts for Inchon (JSM)
8366 P3VX6: M/V Ramona 0205 CW bulk carrier, clg unid coastal station. (RB)
8368 D5DO5: Pan Dynamic 1616 CW clg HLF. (AB2)
8370 3FRB2: Golden Leaf 1607 CW clg JCS. (AB2)
8484.5 HZG: Dammam R 1703 CW de hzg qsx ch 3/4/9 (BvR) Same, at 2135 CW station marker (EW)
8510 J2A8: JIBUTI RADIO 2138 CW station marker (EW)
8515 5AT: TRIPOLI RADIO 2140 CW station marker (EW)
8521 VIP: PERTH RADIO 2142 CW station marker (EW)
8522.5 FFL4: SAINT LYS RADIO 2143 CW station marker (EW)
8525 WNU: SLIDELL RADIO 2144 CW station marker (EW)
8532 LZW42: VARNA RADIO 2144 CW station marker (EW)
8559.5 GKB4: PORTISHEAD RADIO 2118 CW station marker (EW)
8586 WCC: CHATHAM RADIO 2231 CW station marker (EW)
8604.5 DZJ: BULACAN RADIO 2235 CW station marker (EW)
8622 PCH41: SCHEVENINGEN RADIO 2208 CW station marker (EW)
8630 WCC: CHATHAM RADIO 2200 CW station marker (EW)
8649.5 IAR: ROME RADIO 2140 CW station marker (EW)
8658 WLO: MOBILE RADIO 2213 CW station marker (EW)
8665.2 XSG: SHANGHAI RADIO 2212 CW station marker (EW)
8670 IAR: ROME RADIO 2205 CW station marker (EW)
8670 WNU: SLIDELL RADIO 2149 CW station marker (EW)
8686 CNP: CASABLANCA RADIO 2209 CW station marker (EW)
8687 SVA4: ATHENS RADIO 2214 CW station marker (EW)
8691 XST: QUINGDAO RADIO 2219 CW station marker (EW)
8694 XSZ: DALIAN RADIO 2137 CW station marker (EW)
8698 7TF6: BOUFARIK RADIO 2217 CW station marker (EW)
8700 9AR: RIJEKA RADIO 2218 CW station marker (EW)
8704 SVB4: ATHENS RADIO 2219 CW station marker (EW)
8706 JOS: NAGASAKI RADIO 2220 CW station marker (EW)
8722 VIS: Sydney Radio, AUS 0915 USB wkg unid S. Korean vsl 6NKZ for R/T tfc. (RB)
8737 5BA42: CYPRUS RADIO 0624 USB Marker tape, EE (&GG?). (DA2) [Greek -LOGS]
8746 3DP: Suva radio 0715 USB clg "Monitor Suva". (AW)
8761 Playa Ancha CHile 0815 USB pp w/unid ship in SS. (AW)
8767 VIM: Melbourne radio 2315 USB pp unid ship. (AW)
8779 JBO: Tokyo radio 0940 USB general call to all ships. (AW)
8782 XSP: Shanou radio China 0945 USB pp KMI Dixon (1/4 to 2 in the morning in the US?), (AW)
8803 FJA: Mahine radio HI 0847 USB pp w/unid vsl in Tahitian. (AW)
8809 TAH: Istanbul R 1810 USB clg unid mv (BvR)
8860 Unid: 0915 USB Spanish fishermen. (ANEE)
9210 Unid: 0930 USB Spanish fishermen off morocco, discussion of coral til 0945. (ANEE)
11313.5 Unid: 0915 USB Galician ship near London enr Denmark (ANEE)
12423 DUQF m/v ASIA BRIDGE 2223 CW w/JOS @ 36-53N/131W strg for San Francisco @ 13.4 kt (JSM)
12673.5 JOU: NAGASAKI RADIO 2310 CW station marker (EW)
12678 9VG: SINGAPORE RADIO 1341 CW station marker (EW)
12700 XSQ: GUANGZHOU RADIO 1222 CW station marker (EW)
12707 9VG: SINGAPORE RADIO 1322 CW station marker (EW)
12719.8 ZLO: NEW ZEALAND NAVY RADIO 57 CW station marker (EW)
12724 9VG: SINGAPORE RADIO CW station marker (EW)
12826.5 JCS: CHOSHI RADIO CW station marker (EW)
12840 JMC5: TOKYO METEO STATION CW station marker (EW)
12844.5 KFS: SAN FRANCISCO RADIO CW station marker (EW)
12871.5 XSG: SHANGHAI RADIO 1339 CW station marker (EW)
12907 9VG: SINGAPORE RADIO 1222 CW station marker (EW)

12916.5 HLF: SEOUL RADIO 1253 CW station marker (EW)
12933 UFZ: VLADIVOSTOK RADIO 1338 CW station marker (EW)
12948 DYV: ILOILO RADIO 1235 CW station marker (EW)
12952.5 VIP: PERTH RADIO 1323 CW station marker (EW)
12970.5 PKB: BELAWAN RADIO 1334 CW station marker (EW)
12973 XSQ: GUANGZHOU RADIO 1229 CW station marker (EW)
13008 JOR: NAGASAKI RADIO 1331 CW station marker (EW)
13020.4 VRX: VICTORIA HBR RADIO 1326 CW station marker (EW)
13035 UFH: PETROPAVLOVSK RADIO 1231 CW station marker (EW)
13044 VRX: VICTORIA HBR RADIO 1225 CW station marker (EW)
13055 UTQ: KIEV RADIO 1228 CW station marker (EW)
13059 EBA: SN MADRID 1647 CW navarea wngs. (DG)
13113 PCG51: SCHEVENINGEN RADIO 1110 USB w/R/T tfc, strong. (DA2)
13131 Unid UTC? USB Discussion in Russian (UFM2?). (MS2)
16369 VIP: Perth radio 0555 USB pp w/unid vsl. (AW)
16432 Unid Filipino stn 1015 USB pp to "Kilo Charlie" (AW)
16447 Manilia radio 0433 USB wkg unid vsl w/long list of orders. (AW)
16505 Port Moresby radio PNG 0605 USB wkg unid vsl w/pp. (AW)
16563 Unid 0625 USB stn sounded Yugoslavian or similar, pp w/unid vsl. (AW)
16650 Unid: UZ5G CW just came up again w/CQ CQ from station signing UZ5G which could be a Russian ham call. Answered by USNW all in CW. UNSW stated he had i msg and changed to sitor or another mode (couldn't switch fast enough to decipher) & then went back to CW to QSL reception.(RC2) (close, it's Russian maritime c/s, UNSW is TKH Kapitan Burmakin, a cargo ship out of Arkhangelsk. UZ5G is probably UGHG, TKH Kapitan Ponomarev, also out of Arkhangelsk. Both commonly logged & CW coordination is very common on Russian RTTY maritime nets. -LOGS)
16868 9VG: SINGAPORE RADIO 1947 CW station marker (EW)
16870.5 DZJ: BULACAN RADIO 1957 CW station marker (EW)
16880 XSQ: GUANGZHOU RADIO 1944 CW station marker (EW)
16892 XSG: SHANGHAI RADIO 1941 CW station marker (EW)
17105 IRM: CIRM, Rome 1134 CW "cq cq cq de irm" marker (MC)

=MILITARY=

2261 Neatishead 0910 USB +others on this freq w/Tracking NET. (SM)
2670 Unid USCG 0425 USB in comms w/vsl asking questions like "how much water do you have aboard". Vsl clg for some type of assistance. They adv they have no radar & their generator is not wkg. (BWS) Unid USCG Cutter 0409 USB wkg M/V Sebastian. USCG asked for owner & operator of vsl, Sebast. adv info, Reg. # LO???2, type Yukalpateen?, blue steel hull, 68 meters length, white super structure, 10 POB, CG asked about food/water supplies. Sebastian said plenty, but water not so good. USCG Group Charleston 0428 USB bcst w/regards to overdue F-18 followed by wx. NMR1: USCG San Juan (GANTSEC) 0318 USB w/wx bcst.(DF) WCE5063: R/V Endeavor 0302 USB wkg NRV, USCG Group Mayport (Fl, US), w/date/time grp msg to be relayed 1st CG District re departure from restricted fishing area, this research vsl is run by Univ. of Rhode Island, although was using c/s WVFQ in past. NMR1: GANTSEC, USCG Greater Antilles Section, San Juan, PR, "CG San Juan" 0305 USB w/pan-pan ann of an overdue vsl, & into wx broadcast. (RB)
2702 Coastal Control 'GB'0036 USB (AD2)
3023 Kinloss Rescue,G 0734 USB Testing 123 etc (AB) Plymouth rescue 2323 USB w/rdo test. (HH)
3032 MAMA BEAR (weak)0649 USB wkg NIGHTWATCH 01. WAR46 0617 USB wkg NIGHTWATCH 01. At 0656z, NIGHTWATCH net activity w/3032 as primary. 0657z, NIGHTWATCH 01 wkg VALHALLA. 0702z, NIGHTWATCH 01 wkg WAR46. Active pre local sunrise with EAM traffic; 1451z, still active; by 1457z, weak EAM activity by female voice (turned out to be NIGHTWATCH 01 based on later comms), trailing the GHFS. WAR46 0051 USB wkg NIGHTWATCH 01 (very weak.) (JH)
3068 AFA1NY: USAF MARS, NY 0105 USB alt. net ctrl w/roll call. (RM)
3113 NIGHTWATCH 01 0422 USB wkg MAMA BEAR (not heard). (JH)
3122 USCG RESCUE 6029 & RESCUE 1719 UTC? USB involved in SAR for missing Navy F-18. (RS)
3130 USN 0059 USB Alligator Playground net being set up, some chatter re wkg via INMARSAT. (JH)
3134 MAMA BEAR and NIGHTWATCH 01 0655 USB confirming freq as S208, w/3032

(W100) now acting as secondary. MAMA BEAR seems to have to change it's primary freq on about an hourly basis (Net is mostly quiet except for these freq shifts). NIGHTWATCH 01 0652 USB wkg MAMA BEAR At 0705z NW01 advises that he will be monitor only for 1.5 hours. At 0718z OIL KING calls NW01 with no response. OIL KING raised a weak station, QSY to W100 (3032). AVAILABLE 1214 USB clg NIGHTWATCH; nothing heard & gone. MISNAMER (USN)1236 USB wkg NIGHTWATCH 01. VALOROUS 0654 USB wkg NIGHTWATCH 01. LEFTFOOT 0525 USB wkg NIGHTWATCH 01, entering the net. No other stations in the net and no 'current traffic' at this time. (JH)

3191 NNN0GCE4: 0117 USB wkg NNN0GCE, Navmarcormars stas. (RM)

3277 Unid: 0132 USB Whiskey 6 Echo w/list of questions to 8 Juliet Alpha for read back. (RM)

3292 AFF3T: 0139 USB wkg AFF3F, AFF3K et al in USAF MARS net. (RM)

3939 L6W & Bucchan 0810 USB w/Tracking Net, Loads of talk about MAGIC (Awacs) being on station & is coordinating chicks (Fighters). Sounds like an exercise is in full swing. (SM)

4055 CONDOR BRAVO; CONDOR; & DRAGOON comms 0215 USB. (JH) CONDOR 0438 USB clg MIKE, at 0440, CONDOR adv DRAGOON not to send any more requests until CONDOR catches up. CONDOR passed to DRAGOON: Request # 3Y3104K; Line 20, Like (?) 4045; Line 21 Desert 45; Line 22 Like (?) 2GR1, Line 23 Like (?) Mets (?); Line 25 1100. My guess -- US Army or DEA. (TT)

4154.5 DRAS: FGS Rheinland-Pfalz (F209) 0539 USB wkg DHJ59. DRKM: FGS Rhon (A1443) 0627 USB wkg DHJ59. (JP) DRKM: FGS Rhon (A-1443) 0021 USB German Navy replenishment-tanker wkg DHJ59 w/RTTY msg coordination. DRAV: FGS Karlsruhe (F-212) 0312 USB German Navy type-12 frigate, wkg DHJ59, Wilhelmshaven Naval w/RTTY coordination tfc. DRDG: FGS U-28 (S-177) 0414 USB German Navy attack sub, concluding RTTY tfc w/DHJ59. (RB)

4162.5 'N': 0350 USB wkg 'M'. Talk about checking out "Shark" and "Bird Egg". Naval tracking net? (CM) Foxtrot Tango: USN Link-11 coordination net 0545 USB w/MIKE, NOVEMBER, KILO, ROMEO & others. (RB)

4372 USN Giant Killer, FACSFAC (Fleet Area Control & Surveillance Facility) 0437 USB w/3 ECHO clg ZULU 1, 3 ECHO clg 6 WHISKY. (DF) I3Z: 0516 USB w/1YN and X5Q active checking comms & confirming someone "in the blue, 131 tac 003." (KS) GIANT KILLER: USN FACSFAC Va Capes 0100 USB wkg 0YN re sked areas of event V27016, req chg from W72A to W72B. OAKGROVE: NORAD SE Air Defense Sector Ctl, Tyndall AFB, Fl, 2135 USB wkg FRISCO re chg playground to 0001. (RB) 5DC: UTC? USB clg Giant Killer & got a reply. Discussion of FAA flight plan for the a/c, a/c is Red/Blue. One soul on board, according to Giant Killer. (RR) 5DC: 0242 USB asking 9DF if his helo is IFR & SAR capable. It appears 9DF is a ship. He referred to something not being on board. Asked if 9DF is still talking to F-16's. At 0242 told 9DF to have his helo work w/USCG Rescue 2104 Falcon Fan jet on 318.8 uhf. 5DC adv Giant Killer that 9DF is going to be on scene command per req of USCG Miami until first light when USCG C-130 will be on scene. 9DF will use their helo for SAR until 1400 local. (RR) XAI: 1109 USB w/5DC and 9DC have been heard between 1109Z and 1112Z. Also 9DC told I3E that they will be "back in playground in 2 H [hours]. This makes sense as it will be daylight then. I3E: 1043 USB w/9DF as well as WHISKEY at 1043Z & 1100Z. No real messages passed just chatter. (TR)

4395 CHARLIE WHISKEY net 0828 USB callsigns include SLAP #'s, & single letter (i.e. UNIFORM/GOLF/etc.) callsigns. BRAVO 34 and 35 (should be data freqs.) are open for CHARLIE WHISKEY Control. Comms sound like: "Birds affirmed, track #'s, have them inbound, my track #'s ...", "This is GOLF, illuminating them track #, have them turning outbound ...", and "CW, (I) have SLAP shot ... track # ...weapons tight ...aerovac in progress... bullseye available...". Sounds like an exercise to me. (BWS) (USN carrier flt op's/training noted here in past -LOGS)

4442 E1F 0350 USB wkg Andrews on F-499 (4442.0) has now switched to F-465 (8040.0). (JJ)

4445 Unid 0730 USB They are regular here at 0730 Z starting with radio checks & sometimes exercises in FF, usual callsign used is LIMA 21, 22, Key station is LIMA 21 and one day they revealed full c/s as FAL

21 etc. ID? (JS2)
4495 BEDSPREAD 1337 USB with EAM xmsn, leading the GHFS. NIGHTWATCH 01 0659 USB clg RECOURSE, w/no response. Never did hear RECOURSE mentioned past this point. At 0701z, NIGHTWATCH 01 calls & eventually raises WAR46. NIGHTWATCH 01 1422 USB wkg FLINTGUN. (JH)
4540 Ascot 5244: 1738 USB from Lyneham to Bari, selcal AK-BD.This freq seems to be used quite often now, rather than 4742 (JP2)
4547 UNID 0749 USB wkg ?AT req. pp A112. Other callsign heard ZAO. in German (HH)
4560 CGAK: HMCS St Johns (FFH340) 0436 USB Canadian City-class frigate, wkg St Johns Military w/pp req. (RB)
4585 WWJ74: FHWA, Cadillac, MI 1435 USB Kittyhawk 303, CAP, NC, w/SHARES tfc. (JM) Blue Flight net, Virginia Wing, CAP 1330 USB started w/ Chaplain's prayer, followed by Roll Call, about a dozen stns checked in (into the 500 series); ID'd as "Virginia Wing". (MS2)
4706 RAF Buchan 0920 USB wkg G3C, setting up a tracking net. (SM)
4715 RAF's Architect Volmet 1800 USB moved again! (GT)
4721 HERSHEY (NAS Key West) 0731 USB wkg 2V. HERSHEY 0832 USB wkg OKIE SAM (Tinker AFB/NORAD) to "kick data ALPHA 3". SLI (SIERRA ALIMA INDIA 0519 USB wkg P8P, adv to have someone from P8P's station contact them via IMARSAT. (BWS) SAM 28000 & SAM 403 0400 USB wkg Andrews w/radio checks on 4721, 6683, and 11220 (via Hickam site) (EG) 5XC 0307 USB clg SIDECAR. (JH) HERSHEY: Joint Interagency Task Force East Op's Center, NAS Key West 0737 USB wkg 2YM w/link-11 coordination comms. (RB)
4723 ANDREWS 0407-0413 USB wkg REACH 156GB who has shutdown #4 because of a fuel leak(?)-Andy Loud & Clear, relaying for 156GB who was Not Heard. Relay with "ground station" Reach w/2hrs fuel remaining & 100 passengers. Landing at "ground station" OK'd for 0530Z. (GG)
4740.5 MAGIC 99 0820 USB ARCHITECT got fed up listening to MAGIC 99 clg on 4740.5 & changed to 4740.5 & asked if they could change to 4742 & could they be of any help. MAGIC 99 just replied w/"Architect, that's a good copy". (SM)
4742 Architect,G 0954 USB w/Ascot 4201 (AB) Andrews 0447 USB wkg AF1 for radio check (EG) KITTYHAWK 3R 0918 USB wkg Architect depart. EGDL 0905/15 estim. EGPH 1015/20 stand. relay U selcal LMBD. ASCOT 5818 0943 USB wkg Architect radio check. selcalcheck (ASCOT not heard). ASCOT 1102 1102 USB wkg Architect. dep. EGKH 1050/15 estim. EGWU 1125/50 stand. rel. Uselcal LMBD. ASCOT 5818 1110 USB wkg Architect dep. Lyneham 1015/25 estim. Albergen (it sounded something like that) 1310/20 stand. rel. K selcal AJDE. (HH) OIL KING 0538 USB wkg NIGHTWATCH 01. MISNAMER 1232 USB wkg NIGHTWATCH 01. SAM 050 0311 USB wkg ANDREWS re status of AIRFORCE ONE, then shutting down for the night. 0333z, AIRFORCE ONE active. At 0358z NIGHTWATCH 01 clg ANDREWS, but ANDREWS apparently missed the id & they called back to AIRFORCE ONE w/no response, & NW01 gone. NIGHTWATCH ONE 0519 USB clg & eventually wkg WAR46; 0616z, NIGHTWATCH 01 wkg WAR46. NIGHTWATCH 01 0258 USB wkg GIFTSHOP & LAMPCORD. WAR46 0342 USB wkg NIGHTWATCH 01. Heavy co-channel LINK 11 activity. LEFTFOOT 0623 USB wkg NIGHTWATCH 01. RECOURSE 0656 USB clg, but apparently not raising, NIGHTWATCH 01. ARCHITECT (female opr) co-channel activity. WAR46 0534 USB clg NIGHTWATCH 01. MANGROOM 1454 USB wkg NIGHTWATCH 01. (JH) SAM 050, SAM 26000, & Nightwatch 01 0100 USB all wkg Andrews on F-058 & F-465 (8040.0). AF1 0335 USB wkg Andrews on F-058 primary & F-957 (6761.0). (JJ) 1EP23 1446 USB Wessex helicopter, Benson-Shawbury-Benson, 6 pob. Ascot 4983 1425 USB Oslo-Lyneham/ Selcal AJ-BD. Ascot 5401 1120 USB Dijon-Lyneham. Selcal AK-DJ. Ascot 5946 1245 USB Lyneham to Tromso. IFN 22 1447 USB Northolt-Chievres, selcal DJ-FH. M6R20/34 1445 USB from Wattisham to Odiham.Relay J. Nato 10 0930 USB Selcal EM-FL/ Vertical Italy. Rafair 3C34: 1410 USB to Laarbruch. Helicopter. S2E40: 1440 USB arriving EGVO,helo. (JP2) Architect 1805 USB called NATO 11 to say RAF Waddington had HF Rx but no Tx NATO 11 said it was OK they had a UHF link to Germany and were reaching Waddington via land line. (MH2) NIGHTWATCH 01 0257 USB working GIFT SHOP w/signal check. LAMP CORD 0258 USB working NW with signal check. (MJ) 6EZ: 0750 USB wkg ARCHITECT, couldn't get a response on KR wanted new designator. Told goto TS. Habit 7: 0835 USB wkng Architect. Who or what is Habit? Broadsword 1 0940 USB wkg ARCHITECT w/pp req for

BROADSWORD Op's, signals were reported as OK (Army speak for good readable). Broadsword 1 had no joy with the first freq, can we use the second freq ? Ops said that would be OK, goto to freq 2. Broadsword then asked what was it like there ? I have a theory that Broadsword could be a British unit in Bosnia? (SM)
4745 MAMA BEAR 0543 USB(off freq from 4742.0) clg NIGHTWATCH 01, & NIGHTWATCH 01 clg MAMA BEAR on 4742.0. Neither hears the other. (JH)
5142.6 USCG secure channel? 1416 USB During Cuban incident, heard CAMSLANT mention this freq & 9001.6khz for pp. This freq. did have secure (ANDVT?) comms going on. (DF) USCG Camslant 1654 USB adv Rescue 6108 on 5696 to come up 5142.6 "green" (RR)
5198.5 CGAB: HMCS Moresby (MSA-112) 0055 USB wkg Halifax Military. (JP)
5320 NLGF: USCGC Northland (WMEC-904) 0541 USB wkg Group Corpus Christi re status of RESCUE 2111. (RB)
5680 Rescue 169 0902 USB w/Plymouth Rescue. Pos rep. Navy 177 0953 USB w/Edinburgh Rescue. Pos rep. PC 025 (German Navy) 0958 USB w/Glucksburg Rescue. Pos rep. Rescue 122 1019 USB w/Edinburgh Rescue. Pos over Snowdonia. Rescue 138 1022 USB w/Edinburgh Rescue. Reports casualties on board. EI-BHO 1028 USB w/Edinburgh Rescue. Radio check. Alpine 20 1029 USB w/Edinburgh Rescue. Radio check. SRD 125 1226 USB w/Plymouth Rescue. Reports ops normal. Belgian AF 94 1228 USB w/Koksijde Rescue. Radio check. SRG 131 1237 USB w/Edinburgh Rescue. Radio check. Gotland Rescue,S 1302 USB w/Riga Rescue. Radio check. SRG 128 1211 USB w/Kinloss Rescue. Radio check. Plymouth Rescue 1225 USB w/Kinloss Rescue. Radio check. SRG 131 1226 USB w/Kinloss Rescue. Radio check. Kinloss Rescue,G 1259 USB Clg Rescue 122 for radio check. No joy. Kinloss Rescue,G 1436 USB w/Coastguard Mike Uniform. Radio check + pos. report. SRG 137 1450 USB Clg Kinloss Rescue. No joy. Rescue 177 1458 USB w/Kinloss Rescue. Status report. Rescue Standby Team, G 0853 USB w/Kinloss Rescue. Radio check. Alpine 22,G 0903 USB w/Kinloss Rescue. Radio check. Rescue 169 0907 USB w/Plymouth Rescue. Reports 'nothing found, now doing a coastal run'. Navy 177 0930 USB w/Kinloss Rescue. Reports that he is airborne. SRG 193 0931 USB w/Plymouth Rescue. Reports that he is airborne. Sweden Air Rescue, S 0952 USB w/Rescue Y58. Radio check. Kinloss Rescue,G 0720 USB w/Alpine 23. RC + WX. Kinloss Rescue,G 0735 USB w/Alpine 22. RC + WX. Kinloss Rescue,G 0740 USB w/Alpine 24. RC + WX. Kinloss Rescue,G 0745 USB w/Alpine 20. RC + WX. Kinloss Rescue,G 0750 USB w/Alpine 21. RC + WX. Kinloss Rescue,G 0751 USB w/Alpine 95. RC & WX at 0800. Kinloss Rescue,G 0755 USB w/Rescue Standby Team. RC. Kinloss Rescue,G 0826 USB w/Plymouth Rescue. RC. Karup Rescue,DNK 0918 USB w/Sweden Air Rescue. RC. Plymouth Rescue,G 0939 USB w/SRG 193. RC. Plymouth Rescue,G 0940 USB w/Shanwick Radio. RC. Kinloss Rescue,G 1002 USB w/Navy 177. RC (AB) SAR 1917 USB in progress, w/ Rescue 137 1935 USB location Scotland. (AD2) Unid: 0715 USB alpine units reporting on snowfall level (800 feet) & avalanche hazards on various ridges. Callsigns were alpine-23 and -33. (ANEE) ALPINE 20 0740 USB wkg Kinloss Rescue, Kinloss giving wx. of Kinloss area. Very misty. Signal very strong. (for me first logging of Kinloss Rescue, the new station that replaced Edinburgh Rescue). (HW) Kinloss Rescue 0745 USB w/wx for Alpine 20 and others. (JP) Rescue 128: 1415 USB to Stafford. In contact w/Kinloss rescue (JP2) Rescue 11: 1547 USB wkg Kinloss Rescue. Kinloss advised Rescue 11 that Rescue MU would be airborne at 1630 & ETA on scene is 18:00. Rescue 11 adv Kinloss Rescue that they would be airborne at 1630 & (missed this) would be 00:30. (SM)
5685 CWL 81: 1115 USB 53N-000W, calling "MKH5" (ground station) (JP2) MKH5: 1550 USB wkng CL84 simplex "OK, Report when you are level. MKH5 Out" Very loud here indeed. Is this FININGLY? (SM)
5687 GAF 308 1345 USB Northolt-Cottesmore.5687 is one of "DHM91" freqs. GAF 578: 1430 USB to Landsberg (JP2)
5692 Rescue 1716: USCG HC-130H 2316 USB wkg NMN w/ pp Miami Op's re has released the USS Gettysburg & USS Austin will be under way shortly, spoke to vsls, state they are Taiwanese fishing vsls. Odd freq, should be 5693? (RB)
5693 ANDVT 0903 USB traffic (I'm sure between Honolulu COMMSTA & Z8N on "SAG Alpha"). (BS2) CWL84: 1415 USB clg "BT9P" (ground station) (JP2) Traverse City Air, CG Group Detroit and CG 2111 (RD)

5696 RESCUE 6039 0130 USB gave posn of 32.014N/79.031W, COMMSTA Boston adv them 157.35 was the freq. they (whoever "they" are) were on. This appears to still be in reference to the missing F-18. (BWS) [freq was for a DMB or Data Marker Buoy -LOGS] NMN: CAMSLANT Chesapeake 0551 USB wkg 35 CHARLIE. NMN asked for 35C's parent command if it "was available". They went 3E4 for secured comms. I didn't receive any ANDVT trans. on 5107. (BWS) Z8N 0901 USB is adv D-14 will be coming up "SAG Alpha". RESCUE 6029 0914 USB wkg COMMSTA New Orleans w/"flight ops normal". RESCUE 6029 0930 USB w/posn. (BS2) CAMSLANT CHESAPEAKE 0604 USB wkg Rescue 1716, NMN reported weak & scratchy. COMMSTA BOSTON 0614 USB wkg Rescue 1716 re switch guard from NMN. (CD) CAMSLANT 0300 USB assumed guard for Rescue 6041 (DD) USCG GANTSEC (San Juan) 2220 USB wkg USCGC Reliance. GANTSEC req Reliance come up on "Able Manner"? (interesting -LOGS) Tango Juliet Oscar 7 2251 USB clg any COMMSTA for radio chk. No joy. Foxtrot 5 Oscar 2308 USB wkg CAMSLANT, req to secure radio guard. NMG: COMMSTA New Orleans 1256 USB w/Bravo 2 Whiskey, B2W going on SAR, asking COMMSTA to assume radio guard. NMN: CAMSLANT Chesapeake, Va, US 1500 USB wkg 93 Alpha, CAMSLANT will pass posn to Panther (DEA HQ, Bahamas) 93 Alpha not heard. NMN: 1539 USB clg 93 Alpha, instructs 93A to switch to Bravo freq (5841khz?) for comms w/unid station (not Panther). 93A still not heard. RESCUE 1703 0131 USB wkg unid CommSta w/pp District 11 re SAR, coords approx 37N, 126W. NOJ: CommSta Kodiak, AK, US 0133 USB wkg 1709, missed coordinates. NMN: 0136 USB wkg 1703, flight ops normal, missed coordinates. M2D: 0138 USB wkg CAMSLANT, req adv Miami Ops that M2D has flight ops normal. CAMSLANT assuming M2D radio guard. M2D has 5 "souls" on board (SOBs?). (yes, older term for "POB" -LOGS) NOJ: 0141 USB clg 6523, no joy first try. CG 6029: 0146 USB clg NMN, NMN responding but no joy. T1J 0148 USB clg CAMSLANT & CAMSLANT clg 1718 for radio check. T1J, no joy. "Coast Guard Tango 1 Juliet out". RESCUE 1718 0151 USB wkg CAMSLANT, adv that 6029 is RTB, 1718 also RTB Clearwater. 6029 cannot copy CAMSLANT so 1718 assuming 6029 radio guard until comms reestablished. (DF) CAMSPAC 1801 USB wkg CG1714 w/flt ops and pos rpts, CG1603 on grd at Pt Mugu w/hydr leak (EG) NMQ: US Coast Guard Group Long Beach, CA 0040 USB clg CG a/c 6015. (JP) NJJC: USS Clark (FFG-11) 0500 USB wkg USCG a/c 2133 during SAR efforts on airliner crash near Dominican Rep. (JP) J67/J73 1520 USB Helicopters?. This freq is Culdrose ops. (JP2) (Culdrose Ops' = Royal Navy) Miami Obs 0310 USB w/ CG 1718 re: planes shotdown by Cuba. Mentioned Nantucket on scene of submerged debris. (LB) CG RESCUE 1716 2246 USB (HC-130 out of Clearwater) wkg TRAVELLER, who was searching the area of an ELT transmission received via SARSAT & CG District 7, Miami. 1716 was assuming on-scene command, & TRAVELLER was leaving the area. CG RESCUE 1716 2255 USB wkg TRAVELLER & determined that the lost a/c had an EPIRB & was going to go to 5000 feet to DF on it. Apparently, it is a small a/c since the confirmation on the EPIRB came via the pilot's family through CG Miami. CG RESCUE 1716 2300 USB reports ops normal to CAMSLANT w/posn of 30 46.3N 73 24.6W. (MJ) Rescue 1718: USCG HC-130H 0315 USB wkg NMN w/pp Miami Op's, has large debris sighted, USCGC Nantucket is also on-scene, the 1718 has 2 radar contacts submerged just below surface of water aps to be debris, req helo sorte to ID & assist Nantucket to see if it is from a/c. REACH Heavy 04: 67 0531 USB req rdo ck, NMN answers's, at 0534 REACH 178 w/same. NMR1: GANTSEC, USCG Greater Antilles Section, San Juan, PR, "CG San Juan" 0704 USB wkg Rescue 6037 (HH-60J) re HF freq for the E-2C, unk. At 0719, 6037 inbound Great Inagua (Bah), for 'hot' refueling. NMG2: USCG Group New Orleans 0715 USB wkg RESCUE 2122 w/req to try VHF Ch.22A to establish comms. Rescue 6033: USCG HH-60J 0720 USB wkg CG San Juan re posn/altitude of RESCUE 6569. BEAR ACE 01: USN E-2C 0721 USB Hawkeye from Airborne Warning Squadron 124 (VAW-124), Carrier Air Wing 8 (CVW-8), deployed aboard USS Theodore Roosevelt (CVN-71), clg CG 6033, & at 0733 reports is on-scene. Later ID'ed by San Juan as on-scene commander. Culdrose Op's: Royal Navy AS Culdrose 0729 USB wkg 04A(?), w/comms ck's. Rescue 6033: USCG HH-60J 0730 USB wkg CAMSLANT re on-scene wx (rainy), & debris observed including un-inflated life rafts, no apparent survivors so far. Rescue 6037: USCG HH-60J 0753 USB wkg San Juan, re is airborne & enrt to scene, ETA. Rescue 1720: USCG HC-130H

0753 USB wkg BEAR ACE 01 re ID, posn & altitude of other on-scene a/c, 01 passes OMAHA 42 (app Customs Blackhawk) at 1000', RESCUE 6033 at 100', & 6569 inbound Puerto Plata for fuel. This E-2C acted as on scene controller, later was replaced by BA03. Rescue 6037: USCG HH-60J 0810 USB wkg RESCUE 1720 as the 37 arrives back on-scene, has 3 rafts on-board, but no extra litters, 5 hrs total flight time. Last 4/5 logs re crash of Alas Domincanas flt 301 757 in Caribbean. Rescue 2120: USCG HU-25A Falcon Jet 2350 USB wkg NMN re adv D-8 EPIRB they were sent to ck is exactly at Panama City Airport. RTB. (RB) RESCUE 1502 0313 USB pp w/District 5 Command via CAMSLANT land based CBers have reported a ship in trouble but CG not able to locate electronically or visually. Evidently the ship is of Russian origin as District 5 reports that they have faxed list of possible names to the Russian Embassy. Rescue 1502 req that helo be released & reports that they have been in contact with land CB (CH39) who still report sporadic contact. Possibility of a hoax is discussed. (RD) CAMSLANT 1400 USB adv RESCUE 1716 that "D7" (USCG District 7 Operations) wanted a secure pp w/them; QSYed to 9001.6 USB to run short ANDVT secure voice pp. CG RESCUE 1716 1436 USB apparently the on-scene commander for the ongoing SAR effort off Cuba. At 1355Z, adv NMN that the DMB (data marker buoy) had drifted inside the Cuban ADIZ. RESCUE 1716 1456 USB pp MIAMI OPS via CAMSLANT to adv that they had checked both sets of coordinates passed to them earlier via (secure) patch. Two "surface targets" at 2324N/8219W, & nothing at 2320N/82 21W. RESCUE 1718 1502 USB came up to speak w/1716. Adv they were finally able to get off at Clearwater at 1500Z; ETA to the search area 1 hour. RESCUE 1716 1502 USB wkg C-130s on freq to talk about the operation. RESCUE 1716 adv that CG 6031 was on-scene wkg area B5. (RJL) Camslant USCG 1339 USB adv 1502 to go to 5692 for pp. I show 5693 as the normal freq. Could this be a change or an error? After coming up on 5692 1502 was told to return to 5696 for pp. OTIS 04 1511 USB wkg CAMSLANT, tail number 160627, KC-130 out of Beaufort TA on scene 1530, search will begin at 31' 46.3" N 077' 53.1" W, assume they are still looking for that F-18. (RR) Various US Coast Guard a/c UTC? USB searching off Georgia for missing F-18. (RS)

5700 WAR46 0136 USB w/pp for NIGHTWATCH 01 to DSN#939-xxxx, station answering id'ed as "1850", they did a radio check & that was it.(BWS) Unid 1608 USB brief comms overheard no stations id'd (GG) SHOULDER USB (EAM initiator) and CHOCOLATE. SHOULDER transmitted a new 26 character string (ZAGXQE...) to CHOCOLATE, & simulcast the thing on 5700, 6739 & 11244. AVAILABLE 1214 USB clg NIGHTWATCH 01. At 1231z MISNAMER (sounds like) calls, works NIGHTWATCH 01. SHOULDER 1745 USB w/26-character EAM, simulcast on 5700; 6739; & 11244, then wkg CHOCOLATE to confirm receipt of traffic.CHOCOLATE has SHOULDER as very strong, but not the other way around, so CHOCOLATE "changes transmitters" - much better. At 1841z, NIGHTWATCH 01 back up into the net; wkg SHOULDER; clg but not wkg CHOCOLATE; and wkg WAR46. At 1846z NIGHTWATCH 01 works a very weak (here) WAR46, & then into comms w/NIGHTWATCH 02. OVERDRAFT 2055 USB wkg NIGHTWATCH 01. WAR46 0031 USB wkg NIGHTWATCH 01. 0148z, WAR46 wkg NIGHTWATCH 01. SATURDAY 0606 USB clg & raising NIGHTWATCH 01, but not hearing the response. At 0629z NIGHTWATCH 01 with 26 character EAM; at completion he called SATURDAY, but was interrupted by another station (or maybe console) w/another EAM. SATURDAY at 0718z;SATURDAY at 0804z; still active clg NIGHTWATCH 01 at 1448z. DIGNIFIED going monitor only. At 0334z, a 54.. EAM by female opr but blasted by a strong carrier on 5700.7. At 0337z, NIGHTWATCH 01 (apparent USN opr) chatting about the EAM string. At 0609z, VALOROUS up w/his call twice; into EAM; then his call twice. At 0630z, NIGHTWATCH 01 up w/EAM string, trailing the GHFS. At 1300z/1330 NIGHTWATCH 01 clg VALOROUS & RADIATION. Same at 1436-1439, both with no response. WAR46 0337 USB clg NIGHTWATCH 01 for radio checks on about an hourly basis. NIGHTWATCH 01 1717 USB wkg FLATWARE (unheard). THREESOME 2105 USB clg CONTENDER. NIGHTWATCH ONE 0111 USB clg REDHANDED. At 0113z, NW01 clg and raising WAR46. At 0136z a good level signal pops up on freq consisting of a 'rushing'/'whooshing' noise for 5 to 10 seconds, similar to the sounds heard on certain numbers stations both pre & post traffic. After about 10 seconds, VALHALLA went into a 26-character EAM

54VSVFP I got it..."OODY....Unusual, in that these stations usually just pop up w/their strings, without keying the circuit for any length of time prior to the voice traffic. 0141z, someone weak clg NIGHTWATCH 01; 0151z, "Test 1,2,3. Test out."; 0153z, PARKHILL-type preambles; 0208z, ANDVT comms with no clear voice; 0216z, NIGHTWATCH ONE clg REDHANDED; 0218z, NIGHTWATCH ONE clg & wkg WAR46. ORANGEAID 1558 USB wkg NIGHTWATCH 01, entering the net. GIFTSHOP 0255 USB wkg LAMPCORD. WAR46 0826 USB clg & wkg BULLDOG. UNDERDOG 0346 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 0659 USB wkg WAR46 with a signal check. AT 1701z, NIGHTWATCH 01 clg FLINTGUN. Again at 1759z (both WAR46 & FLINTGUN). NIGHTWATCH 01 0107 USB (female opr) wkg WAR46. WAR46 1324 USB wkg NIGHTWATCH 01; 1337z, NIGHTWATCH 01 clg STATEROOM; 1351z, MANGROOM wkg NIGHTWATCH 01 on and off until 0358z, when NIGHTWATCH 01 raises WAR46 and advises him that he is going monitor only for 30 minutes. At 1440z, MANGROOM (USN opr) wkg WAR46 (not heard here), adv WAR46 that STATEROOM is monitor only for 2 hours. NIGHTWATCH 01 1458 USB wkg MANGROOM, adv MANGROOM that they seem to be unable to find a good wkg freq - try again in 60 minutes. At 1622z, MANGROOM back up clg NIGHTWATCH; & then raising STATEROOM, who then goes through the challenge process and enters the net. VOLTAIRE 0638 USB wkg NIGHTWATCH 01 for a signal check. Still active at 1305z, w/ VOLTAIRE wkg NIGHTWATCH 01, and NIGHTWATCH 01 advising that SOLUTION is active on 9017/6730. At 1409z, VOLTAIRE clg & raising WAR46. (JH) NIGHTWATCH 01 0256 USB wkg GIFT SHOP w/signal check. QSY X-209. (MJ) SKEPTICAL 0214 USB wkg NETLOCKS "anything on WTAC yet?"..."negative". Nightwatch 0120 USB check in's followed by some type of digital traffic. (RR)

5705 MAGIC 88 0849 USB clg PBV re starting an Alligator Link w/R9C & 8CD. Req find out witch playground they want to use for alligator. PBV 0857 USB call. Magic 88 adv not in contact with those callsigns. 4CE 0951 USB wkg PBV pos. 5336N 00400E searching for the target. 4CE 1022 USB wkg PBV relayd to 4SB - 4CE located the target & reported to CG center. 4CE is proceeding it's own mission. CG 03 1014 USB wkg PBV. Something like req permission for 3,5 hours search. (HH) PBV 1705 USB clg 340 for a radio check in EE, nothing heard out. (SM)

5709 French Navy 53B8 1450 USB N262AEN from 56S, from Nimes on a training flight. Also used operational call-sign "Casar B". FNY 53D1 1330 USB Also FNY 53F3/FNY 53E2 all N262 AEN from Nimes.5709 is "Nimes Ecole" freq, used for the training of Aeronavale navigators. (JP2)

5710 SAM 28000 and SAM403 0430 USB active with Andrews (AH2)

5712 UNID 1056 USB Just for the record: LONGBOW wkg CRICKET, Bosnia stuff. (BH) Unid: 0658 USB "We want FOXY 41" (a Mystic Star channel?). Unid "KARBOWAY 26" 1536 USB clg Karboway 27 after permission from ground station. No contact. (spelling not sure, very unid). (HW) Bookshelf: 1220 USB wkg Longbow & Cowboy 63/40 over Bosnia (JP2) (BOOKSHELF is loc at Aviano, Italy; LONGBOW is Air Op's Coordinating Center -AOCC- Kisaljek, Bosnia; see 3178, 5110, 5788 & 6932.5 for more related comms -LOGS)

5714 Unid 1555 USB India Delta xx callsigns. Italian sounding, lots of rolling rrrrrrrrs. (SM)

5771 Unid: 1930 USB Russian Military. (ANEE)

6200 NVES: USCGC Venturous 0326 USB (WMEC-625) wkg NMN re new HFDL freq. (RB)

6375 TBO: TURKISH NAVY, IZMIR 2048 CW station marker (EW)

6382 TBA: TURKISH NAVY, ANKARA 2045 CW station marker (EW)

6389 CTP: NATO LISBON 2043 CW station marker (EW)

6502 TBB6: TN ANKARA 2151 CW tfc to TBDJ. (DG)

6550 Coastguard 03 1013 USB wkg Coastguard Center. Radio check (HH)

6550 CG 03 1013 USB wkg CG Center Out EHVB1011Z (Valkenbrug) re setting course to container search area this time. CG 03 1044 USB wkg CG Center. Operations normal pos. 5336N 00338E. PBWW 1050 USB clg CG Center for radio check. Stand by on this freq. (in Dutch). (PBWW=CG Launch Zeevalk -LOGS) CG 03 1114 USB wkg CG Center. ops. normal pos. 5331N 00339E still in search area. At 1244 ops. normal pos. 5331N 00345E. At 1249 wkg CG Center re covered search area 1 w/radius of 7 naut. miles from Detum (?? or Devum) covered it 3 times. (HH) Unid Aussie net? 1140 USB This is listed as Cape Canaveral Radio or Collins Radio, but hrd 2 stns w/Brit/Aussie accents, mentioned "Delta

One". (MS2) (Dutch CG primary user, someone new? -LOGS)
6683 SAM-682, SAM-683, & SAM-050 2030 USB pre-flight checks. Sounds like Air Force-1 will be on the air shortly. SAM-682/AF-1 2020 USB (AH2) SAM 203 1510 USB wkg ANDREWS. (DC) AF1 1643 USB wkg Andrews w/pp to communications, mentioned troubles with keyboard link, switching to system 2 (Sat). (EG) ANDREWS USB wkg NIGHTWATCH 01, w/NW01 sending data "to downtown." (JH) Trout 99 1730 USB A/R Bass 10, going 868u (9218). (JP2) Andrews 2055 USB wkrg PP for SAM 202 to Andrews CP (MF2) SAM 683 0204 USB wkg Andrews since 0204...airborne at 0404. AF1 0355 USB wkg Andrews. Andy has AF-1 QSY to F777(?). Earlier, (0246z) Andy switched 682 and 050 to 777, after trying 354. Andy also tried 226, but couldn't get the transmitter to key. Searched 10700 to 11600, figuring that 777 might be close to 354. 050 ended up back on 6683 w/pp to Andrews CP and metro at 0415z. (MJ) Unid: 2010 USB a/c was heard telling Andrews he was standing by on F731 (MK) Air Force 1: President of U.S.'s a/c 0022 USB wkg Andrews w/comm ck's. SAM 201: USAF C-20B tail 86-0201 1826 USB wkg Andrews w/req for active runways & parking assignment, fol by pp Andrews meteo. SAM 204: USAF C-20B tail 86-0204 2337 USB Special Air Mission a/c, wkg Andrews w/pp SAM Command. (RB) SAM 60204 0200 USB wkg Andrews VIP, est at Andrews at 0335Z. QSYed to F64 (11214 kHz) at 0100Z for check; no joy; returned to primary. Several pp's, Fleet Service (Andrews extension 2666), and SAM COMMAND POST. (RJL)
6691 Y6N 1328 USB wkg Neatishead. Radio check. Tracknrs. Asking phone w/ 4IS. This callsgn is not on the net. (HH)
6693 H2Q: 1230 USB wkg "B6H" (RAF A/G). "Blue Light" 1235 USB radio checks w/network (CK)
6712 Architect 1049 USB 54JJW3 stand by "msg follows" & I say again. (HH) (maybe Croughton not Architect, USAF tfc -LOGS) MCCLELLAN 0620 USB, as lead station, w/20/20/26 character EAM set over a 7 minute period. (JH) Cotam 0001: 1000 USB From Paris to Singapore, DC-8F, French president on board. (nice snag! -LOGS) Cotam 0003: 1615 USB unreadable. Cotam 0005: 1550 USB from Bucharest to Poitiers, contacting "Victoria" (VIP HQ/Paris). Cotam 0014 1729 USB VIP flight going to west Africa (Abidjan?). Cotam 0021 1715 USB to Roissy. Spare a/c for presidential flight. Cotam 0204/F-RAFJ 1407 USB Villacoublay-N'Djamena/DA 50 /Airevac. Cotam 0215: 1815 USB Santa Maria-Villacoublay,1 EVASAN (EVAcuation SANitaire). Cotam 0810: 1550 USB Metz-Posnan.Mission 09041113.N-262. Cotam 0810: 1325 USB to Posnan. Most probably a N-262 from ETE 41 "Verdun", Metz. Cotam 1001 2000 USB to Dakar, return to Orleans the next day. Cotam 1041: 1925 USB to Douala, A-310. Cotam 1042: 1650 USB to Toulouse, 2 aeromedicals. Cotam 1051 1000 USB Roissy-Nantes. A-310. Cotam 1063 1310 USB Airbus A310 from Brest to Hyeres. Cotam 1063 0956 USB Toulouse-Bangui/A310 selcal ?K-MS. Cotam 1141: 1710 USB N'Djamena-Bangui. A-310. Cotam 1353: 1605 USB Orleans-Toulouse. Selcal KQ-JS. Cotam 1604: 1630 USB Berlin-Lille. N-262. Cotam 1838 1722 USB Istres-Orleans. Cotam 1854 1415 USB Bastia-Toulouse. Cotam 1917 1630 USB to Istres. Training flight. Cotam 1919 1510 USB Agadir-Dakar. Cotam 1938 1315 USB to Toulouse/ selcal AM-ES. Cotam 2052 1145 USB Jersey-Evreux-Orleans. Crew=6, 0 pax. Cotam 2110 1430 USB to Orleans. Cotam 2111: 1050 USB Isle of Man-Munster-Hamburg. Training flight,going then to Groningen & back to Orleans. Cotam 2330 0920 USB Oslo- EDDH. Cotam 2340 1330 USB Dublin-Exeter. Cotam 2350: 1120 USB Orange-Cervia. Cotam 2360: 1245 USB to Villacoublay. Cotam 2467: 1630 USB Istres to Nancy. Cotam 2467 1611 USB Dahran. Cotam 2468: 1605 USB to Istres, next leg to Orleans via Nancy. Cotam 2475 1530 USB Bosnia-Solenzara. Cotam 2482 1515 USB Orleans. Cotam 2489: 1210 USB from Istrana to Toul. Cotam 2961: 1620 USB Landivisiau-Orleans.These last five a/c were returning home for the week-end after completing their various missions. Cotam 2972 1600 USB Sigonella. Cotam 2979: 1525 USB Pau-Evreux, coded 64-G. /C-160 NG. Cotam 2979 1110 USB to Hyeres. Cotam 2980: 1502 USB Pau-Orleans. Cotam 2987: 1730 USB to Toul. Cotam 2988: 1535 USB Solenzara-Colmar. Cotam 2989: 1500 USB Solenzara-Colmar. Cotam 2997: 1810 USB to Waddington, support flight for Mirage 2000 detachment. Cotam 3010: 1530 USB Landivisiau-Orleans. Cotam 3012: 1450 USB Rennes-Toulouse. Cotam 3021: 1440 USB Hyeres to Evreux, coded 64-G. /C-160 NG. Cotam 3023: 1210 USB from Hyeres to Evreux. Cotam 3028:

1330 USB to Mostar.C-160NG 64-G.,from Squadron 1/64 "Bearn",Evreux. Cotam 3034: 1630 USB Reims-Evreux. Cotam 3035 1339 USB Ajaccio-Evreux. Cotam 3038: 1510 USB Pau-Evreux. Cotam 3044: 1720 USB Pau-Evreux. Cotam 3053 1345 USB Aix-Seville (sports event). Cotam 3056: 1030 USB Istres-Mont de Marsan, to Villacoublay the 16th. Cotam 3071: 1030 USB to Ajaccio, coded 64-G. /C-160 NG. Cotam 3072: 1504 USB Ramstein-Evreux, coded 64-G. /C-160 NG. Cotam 3086 1110 USB Sarajevo-Bordeaux. Cotam 3088 0916 USB Istres-Sarajevo. Cotam 3090 1130 USB Istres-Sarajevo-Mont de Marsan. Cotam 3094: 1610 USB to Mont de Marsan. Cotam 3095: 1550 USB also called "IFOR 34", to Mont de Marsan, contacting "Casoar 5" (Cotam HQ in Villacoublay). Cotam 3139: 1110 USB Tarbes-N'Djamena. Selcal GP-MQ. Cotam 3158 1600 USB Colmar-Solenzara. Cotam 3160 1530 USB 46=B0N-007=B0W.ops normal. Cotam 3161 1400 USB Ajaccio-Evreux. Cotam 3164: 1510 USB 43N-003E to Orleans. Cotam 3166 1704 USB Cologne-Villacoublay. Cotam 3172 1506 USB Solenzara-Colmar. Cotam 3178 1020 USB to Zagreb. Cotam 3178 1734 USB Ancona-Istres /aircraft 64-G. Cotam 3181 1404 USB from Istres to U.A.Emirates.Selcal JL-HQ. Cotam 3182: 1600 USB Ancona-Istres. Cotam 32 0930 USB Villacoublay-Lisbonne /Mission UA/23. Cotam 3200: 1030 USB Istres-Sarajevo, then back to Istres and Orleans. Cotam 3200 0950 USB Istres-Sarajevo. Cotam 3200 0954 USB Istres-Split. Cotam 3394 1130 USB Rome-Iraklion, crew=6, 8pax, 3 tons cargo. Cotam 3401 1220 USB Colmar-Orleans. Cotam 3401 1550 USB Istres-Orleans. Cotam 3405 1000 USB 32N-008E to 22N-11E. Cotam 3500 1000 USB Ajaccio-Solenzara. Crew=6, 88 pax. Cotam 3500 1045 USB Calvi-Bastia, crew=6, 64pax, 1 ton cargo. Cotam 3500: 1600 USB Istres-Orleans. Cotam 3500: 1340 USB Solenzara-Istres, then to Orleans. Cotam 3500: 1410 USB Istres to Solenzara. Cotam 3500: 1510 USB Istres-Orleans. Cotam 3500 1230 USB to Istres. Cotam 3500 1320 USB Solenzara-Istres-Solenzara. Cotam 3517 1110 USB Diverting to Venice because of bad wx in Zagreb Cotam 3600: 1040 USB Saint Dizier to Brindisi, then Turkish over flight. Cotam 3838: 1440 USB operational message, air refueling. Cotam 3900: 1130 USB Brindisi. Cotam 3915 0950 USB Cazaux-Mont de Marsan-Evreux. Cotam 3963 1245 USB Seville-Agadir-Dakhla-Dakar. Cotam 3970: 1510 USB 43N-009E to Orleans. Cotam 3970: 1110 USB 44N-007W.ops normal. Cotam 3972: 1430 USB Sarajevo-Orleans. Cotam 3973: 1521 USB to Saint Dizier. Cotam 3975: 1003 USB to Mostar. Cotam 3976: 1523 USB from Evreux to Orange. Cotam 3977: 0926 USB 34N-13W to Agadir. FAF 4022 1145 USB to Bangui, probably a C-135. FAF 4151 1820 USB to Istres. FAF 6635 0930 USB to Lille. French Navy 53A7 1300 USB Nord 262 AEN (56S)Nimes-Malaga. French Navy 53411730 USB Nimes. GAF 591 1750 USB Circus Orange inquiring about the departure of this a/c to its location. IFD 03 1000 USB Istres-Mostar. Crew=7, 57 pax, 5 tons cargo. IFD 074 1105 USB Metz-Lyon. Crew=11, 100pax, A-310. IFD 27 1510 USB Tarbes. IFD 73 1145 USB Mostar-Roissy.A-310. IFD 0037 1600 USB to Istres (French a/c). Navy JM 529: 1040 USB Clg Croughton, overhead Aviano. Rami C1 1620 USB C-160 from "Bearn" Squadron. Adv dropped 28 fully equipped paratroopers + 2 pallets of 2.towns each. Rami C3/C4 1645 USB Operational flight of 2xC-160. Rami C4 1715 USB C-160 from "Bearn" Squadron. Adv cargo dropped. (JP2)

6715 AME 3132 1700 USB Rota. Spanish AF frequency. (JP2) RHINO 1958 USB looking for a radio check, LEATHERNECK replies w/no contact. (JH)

6717 SAM 26000 0618 USB clg but not hearing ANDREWS. (JH)

6723 "E3Z" (USAF aircraft) 1432 USB with "EYS" (Italian) IFOR Bosnia (CK)

6727 W8K 0952 USB calling DHJ59 for radio check."normal operation" (HH)

6730 SAM-681, SAM-973 2020 USB MYstic Star (AH2) Casey 01 1725 USB wkg Andrews VIP reporting their arrival (possibly at RAF Mildenhall). '01 made pp to Raymond 21 to report this, and said that they would 'be up again' tomorrow. (GT) ANDREWS 0537 USB providing pp's for TROUT 99. ANDREWS 1445 USB wkg SPAR 65 (female opr) w/pp traffic to a European DSN number. ANDREWS 1618 USB is active on 6730.0 at 1615z clg AIR FORCE TWO. ANDREWS 1948 USB wkg SAM 050. The secondary freq is F873 (13248). WAR46 0324 USB clg NIGHTWATCH 01 for radio check. At 0420z, MAMA BEAR wkg NIGHTWATCH 01. MISNAMER and NIGHTWATCH 01 1233 USB clg each other but not hearing each other. TROUT 99 0533 USB wkg ANDREWS w/pp's. ANDREWS 1448 USB wkg SPAR 65. At 1534z, MACDILL calls SPAR 65 on 11175. KNAPSACK (or MAPTACK/TRACK) 1655 USB wkg NIGHTWATCH 01 (female and male opr during same xmsn) adv that MUNICIPAL is now

exited the net. ANDREWS 1943 USB clg SAM 050. NIGHTWATCH 01 1354 USB w/EAM xmsn, trailing the GHFS. ANDREWS also on freq w/SAM activity. WAR46 0343 USB wkg NIGHTWATCH 01. SAM 973 1506 USB wkg SAM 683 (enrt to El Salvador about 15 hours earlier), & then wkg ANDREWS (who was guarding both SAM flights). 0437 USB Very weak NIGHTWATCH net activity here & on 9017. At 0445z,weak station clg NIGHTWATCH 01; ANDVT comms at 0454z; INTIMATE (sounds like) wkg NIGHTWATCH 01. LEFTFOOT 0622 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 1626 USB w/EAM bcsts at 1626z (coincident with GHFS) & 1629z, simulcasting on 5700 & 6730. Players seemed to be OVERSLIDE (sometimes sounding like OVERFLY, and OVERSIGHT) & HUMPHREY. NIGHTWATCH net activity. At 0355z, NIGHTWATCH 01 clg & wkg WAR46, w/NIGHTWATCH 01 using male & female oprs in the same xmsn apparently. At 0357z, NIGHTWATCH 01 (female opr) wkg WAR46 req pp to common DSN 939 number. WAR46 had lots of technical problems in making this patch, finally succeeding around 0415z+/- - common brief connectivity check. At 0421z, NIGHTWATCH 02 up wkg someone (could not make out) w/challenge process; at completion it appeared that he may have also been wkg NIGHTWATCH 01 maybe via a pp or something. Too weak to follow. NIGHTWATCH 01 1422 USB wkg FLINTGUN (active since around 0600z). NIGHTWATCH 01 0050 USB (female opr) wkg WAR46. NIGHTWATCH 01 1501 USB wkg OREMINE (female opr). At 1503z, SAM 204 wkg ANDREWS; SAM 204 caught the co-channel NIGHTWATCH activity & requested that ANDREWS move SAM 204 elsewhere. At 1515z, NIGHTWATCH 01 works WAR46 for a signal check; at 1550z, OREMINE (now a male opr) adv that he is going monitor only; at 1607z, NIGHTWATCH 01 works WAR46 for a signal check. NIGHTWATCH 01 0110 USB wkg WAR46 for a signal check, & req that signal checks be made on an hourly basis. SPAR 63 0438 USB wkg ANDREWS w/pp's. (JH) Casey 01 1315 USB to 6683. (JP2) UNID 2255 USB SS male voice clg "Ola" (4 times, repeated twice) then in conversation with other male. (LB) NIGHTWATCH: 0034 USB wkg WAR46, req if they tfc for station NW. SPAR 67: VIP flt 58th ALS, Ramstein AB 0709 USB wkg Andrews w/pp UCOMM(?) who answers as LOWDOWN. Air Force 2: Vice Presidents a/c 2108 USB wkg Andrews w/comms ck's, at 2129 w/pp CACTUS 03. (RB)

6739 Earl 22 0028 USB wkg Thule w/pp to Lajes for wx. ETA 0130z. Seat 14 0049 USB wkg Lajes, pp to Rota Billeting. ETA 01:10z (AD2) Unid: 0850 USB wkg unid GHFS re wkg freqs for NIGHTWATCH. GHFRS (I think it was Ascension) told them to go to 2715. Unable to hear anything on 2715. (BWS) IFN 52 1540 USB helo from Pisa to Split. Called by "Skyhook", QSY to 4840 w/"Skyhook" which seems to be a British CP in Split. IFO 18 1244 USB N=B0 90535 ETAF-Tuzla/Mission AJUJ2233. IFO 35 1930 USB 44-12=B0E /C-17. Rafair 23J3 1740 USB also clg 11205/9031. Spar 85 1615 USB from Araxos to Ramstein. Mission 2404. Tartan 12 1710 USB to Lyneham, wind too strong at Brize. (JP2)

6739.5 NRD?: AFRN Roosevelt Roads, PR 0400 USB Rock Mx and PSAs by Andi. Ann. 1200kHz. ROGERS never soundedlike this. (MF)

6740 RAF's Architect Volmet 1940 USB added? (GT)

6751 SIDECAR 0415 USB attempting to raise A3X on 6751. (JJ) SIDECAR 2250 USB w/2VT re thanks for help w/evaluation, I show 6750 as a Navy freq, does anyone know if 6751 is replacement for 6750 similar to GHFS reassignments in 12-94? (RR) (used as a NORAD op freq -LOGS)

6761 1640 USB "active" w/short radio checks from various callsigns (unable to make out the calls) & a station who id's as 'something' 14 TANGO NOVEMBER (the 'something' sounds sorta like SABERsomething) clg SKYBIRD. The freq is being id'd by the stations as QUEBEC (the way it use t'be). During the brief comms between the weaker muffled voices, I may have caught the word exercise. ONE FOUR TANGO NOVEMBER clg SKYBIRD. AIR FORCE ONE 0320 USB wkg ANDREWS w/wheels-up info & expected flight time. Enrt to NEWARK. At 0351z SAM 26000 wkg ANDREWS. At 0455z there were some AGAR calls on freq. At 0650z AIRFORCE ONE up w/pp to CROWN/AFOC w/landing & in-the-blocks info at NEWARK. JUMBO 30 1756 USB clg 'something' 80. EXECUTIVE ONE FOXTROT 1622 USB wkg ANDREWS. At 1653z, 'something' 93 clg 'something' 81 (could not make out the calls). Unid station station 1548 USB (could not make it out) clg 'something'22. (JH) Quid 84: 2010 USB fixing A/R w/"Testy 14"(or, Zesty ?), enrt Bermuda. Quid 94: 1525 USB talking to "Spar 19" (?) about A/R CT. (SPAR 19 19th ARW Robins AFB, Ga -LOGS) Sam 518 1718

USB to Aviano /DV2 +10. (JP2)
6779 DRDG: FGS U-13 (S-192) 0149 USB German Navy attack sub, wkg DHJ-59 w/RTTY coordination tfc. DRAV: FGS Karlsruhe (F-212) 2349 USB German Navy type-12 frigate, wkg DHJ59, Wilhelmshaven Naval w/QSL for RTTY tfc. (RB)
6780.2 Unid: 0830 LSB French MIL at posn "miracle" involved in gun firing. Channel ID as a Verite-Series channel. (ANEE)
6794.7 YPVD: 1815 CW gfkm de ypvd slavic military (ANEE)
6797 Unid: 0240 USB Hot Rod & Straight Jacket (?), also trading long bursts of traffic on harris modem, voice traffic is surprisingly informal in format. (ED)
6815 Sunglass (net control?) 2047 USB wkg Queensland, Curtain Raiser, Marksman & Coachman. Anybody know who this was? Definitely military but not very professional sounding. (JP) (poss USMC -LOGS)
6830 SAM 204 1505 USB wkg ANDREWS. (JH) Andrews 2014 USB w/pp for a/c 518 to Executive Travel. (MF2)
6873.5 IHBA: ITS Basento (A-5356) 0713 USB Italian Navy water replenishment tanker, wkg ICS, Italian Navy La Spezia, w/"immediate" tfc, mixture EE phonetics/Italian used. (RB)
6937 Cape Radio 2032 USB wkg Clearance 1, was told to RTB. (MK) NQSP: USCGC Vigorous (WMEC-617) 1811 USB wkg DoD Cape reporting on station at 2016N/07864W, their helo 6570 is on deck. NCWA: USS Moosbrugger (DD-980) 1818 USB wkg Cape Radio re os on station, Cape adv contact DoD Cape this frequency. Comms re launch of Space Shuttle Columbia on mission STS-75. (RB)
6939 GW: 1520 USB on freq w/GR. loads of a/c callsigns quoted: DOG 05, 06, 07, BEAR 102, CI 300 & 305, WILDCAT 25, BLASTER 42, 44, FOX 1. Lots of exchanges: "Strike Packages" & "Primary Mission may finish early". Talk of "RED & BLUE Air" (SM)
6969 RESCUE 1718 1539 USB w/RESCUE 1716 QSYed this freq to briefly discuss what portion of search area B4 should be covered by 1718 once on-scene. RESCUE 1716 closed by saying "I hope you find more than we did ...". Back to 5696. (RJL)
6986 SAM 6832317 USB, enrt to El Salvador, wkg ANDREWS w/various pp's.(JH)
6993 AF-2 1540 USB wkg ANDREWS w/pp's. (DC) Sam 201 2005 USB to Dulles. Snow in Andrews. 6 pax. (JP2) Andrews 2125 USB w/pp for SAM 201 to Andrews CP. (MF2) SAM 973 1935 USB wkg Andrews. (MJ) EXECUTIVE 1 FOXTROT 1940 USB wkg Andrews (who calls them SAM 683) w/relay of departure time of 1935, arrivial time 2005. (RB)
7330 VALOROUS 0657 USB wkg NIGHTWATCH 01. Heavy Moscow swbc co-channel qrm of course. (JH)
7472.5 FDC: FAF METZ 1246 CW Marker "vvv FDC" badly cut tape. (DW)
7475 VALOROUS 0655 USB wkg NIGHTWATCH 01. Heavy AA swbc co-channel qrm of course. MANGROOM 1452 USB clg, but not hearing, NIGHTWATCH 01. (JH)
7500 WAR46 1338 USB wkg a pp for someone. Other stn too weak to copy, poss Nightwatch 01 according to guy on landline, pp msg "The chair is against the wall" NW01 responded "the door is open" (RR)
7502.3 Unid: 1715 CW tuning poss Turkish navy? (ANEE)
7535 NJFY: USS Platte (AO-186) 1351 USB wkg SESEF Norfolk. NTIC: USS Ticonderoga (CG-47) 1443 USB wkg SESEF Norfolk. (JP) SESEF Norfolk 1920 USB conducting radio test, I think the other operator was ID'ing as LY SPEAR but would not bet my life on it. (MF2) (USS L.Y. Spear AS-36 -LOGS) NREH: USS Hawes (FFG-53) 1715 USB wkg SESEF re cancelling TACAN testing due to distance away. NUSA: USS America (CV-66) 1715 USB on xmitter #5 of HF radio testing. America due to be decomm'ed later this summer. NASO: USS L.Y. Spear (AS-36) 1740 USB w/3 HF rdo ck's. NGGD: USS Mississippi 1741 USB (CGN-40) w/HF radio tests. NDPG: USS Gallery (FFG-26) 1742 USB w/HF tests on xmitter#5. NOTH: USS Halyburton 1748 USB (FFG-40) wkg SESEF for radio ck. NJFY: USS Platte (AO-186) 1857 USB w/req for SESEF to go green & ANDVT testing. (RB)
7765 DoD Cape 2130 USB wkg booster recovery ships Liberty Star & Freedom Star giving them coordinates for recovering the boosters, I did hear them actually recover the left booster & secure it on board the vsl. (MK)
7805 FDG: FAF BORDEAUX 2000 CW de fdg (DG)
7834.5 FDC: FAF METZ 1111 CW de fdc (DG)
7997 SAM 682 0405 USB declared Air Force 1 status, primary F-266 (7997),

secondary F-877 (4721.0), SAM 050 is riding shotgun. (JJ)
8026 PATRIOT 0233 USB clg PATRIOT REAR. Deep U.S. South accent. Freq very active w/ANDVT comms, in fact on more than one day. (JH)
8027.5 V2M: Unid U.S. Military 2115 USB clg unid trigraph callsign, no joy. (RB)
8031.5 NNN0CEI: USS Camden (AOE-2) 0048 USB MARS sta, wkg NNN0VGV for pp tfc in rotation. NNN0NZN: USS Mount Vernon 0051 USB (LSD-39), wkg NNN0VGV for pp tfc in rotation. NNN0CYF: USS California 0056 USB (CGN-36), wkg NNN0VGV for pp tfc in rotation. NNN0CRZ: USS America (CV-66) 2308 USB wkg unid shore station re computer info. America returning from her last deployment before being decomm'ed this summer. (RB)
8122 Nowra control NSW AU 0645 USB long coded tfc. This is Navy ch 4. (AW) VHI: Darwin Control, AUS 0905 USB Royal Australian Navy, Darwin, clg Nowra Control. VLRK: HMAS Geraldton 0905 USB (PTF-213) wkg Canberra Control, req QSY to D5. (RB)
8173 Unid: 1730 USB Russian military or maritime? (ANEE)
8240 NDTS: USCGC Dauntless (WMEC-624) 2242 USB w/pp to USCGC Valiant (apparently in port) via CAMSLANT Chesapeake. (JP) NDTS: USCGC Dauntless (WMEC-624) 0023 USB clg NMN, no joy using ID "CG cutter Dauntless". (RB)
8294 WTDF: NOAAS Townsend Cromwell (R443) 0417 USB wkg CAMSPAC Pt. Reyes concerning MEDICO from vsl Red October. USCG acft 1714 HC-130 0509 USB abn from CG AIRSTA Barbers Point, Hawaii, wkg CAMSPAC Pt. Reyes., to assist with Red October MEDICO. (JP)+(RB) ADMW: USAV Malvern Hill (LCU-2025) 0100 USB clg Golden Bear. Anybody have any idea who this might be? (JP) (is that still the west coast maritime training ship? -LOGS) AAOU: USAV Manassas 0310 USB (LCU-1667), clg RAIDER, no joy, at 0313 clg MacDill(!). ADMW: USAV Malvern Hill 0310 USB (LCU-2025) clg RAIDER, no joy. ADMP: USAV Five Forks 0422 USB (LCU-2018) clg RAIDER, 1097th TRANS CO, Rodman Naval Sta Panama, no joy. (RB)
8297 AAEG: USAV Kennesaw Mountain (LCU-2002) 0213 USB clg AAC2. ADMO: USAV El Caney (LCU-2017) 2309 USB clg AAC2. (JP) AAEI: USAV Churubusco (LCU-2013) 2311 USB gave its 1800 posn report to AAC2, stating it was bound for Port Royale, Jamaica. (RA) AAEF: USAV LTG William B. Bunker (LSV-4) 0233 USB wkg ADMO w/request if they can raise ADMM. This is a Logistics Support Vessel fm 1099th Trans Detachment, Ft Eustis, Va. AAFA: USAV SP4 James A. Loux (LSV-6) 0515 USB wkg AAC2, Harbormaster Ft Eustis, Va, w/posn/status report, vsl at Guantanamo Bay, Cuba. AADT: USAV Aldie (LCU-2004) 2255 USB wkg AAC2 w/posn, status, QTH is Port-au-Prince, Haiti. (RB)
8551.5 CTP: NATO LISBON 2057 CW station marker (EW)
8571 JNA: JAPANESE SDF RADIO TOKYO 2121 CW station marker (EW)
8634 VTG: INDIAN NAVY, BOMBAY 2147 CW station marker (EW)
8646 VTP: INDIAN NAVY, VISHAKHAPATNAM 2314 CW station marker (EW)
8764 Unid: 2235 USB Computer Voice w/wx report. (SM) (USCG and at this time, NMC, CAMSPAC Point Reyes, Ca -LOGS)
8967 ANDERSON AFB, Guam 1200 USB w/pp for REACH 017PE. (DA2) Hickam & Andrews 1737 USB w/EAM. (EG)
8968 ASCOT 5627 1513 USB wkg Lajes C-130 pp Lajes PMSV wx 1800. Lajes calls the flight OSCAR 5627. SAM 31681 1517 wkg Lajes (C-9C) pp DSN 858-5058 (SAM CP): dep Shannon 1505, eta next station 1940, DV code 2+12 (Holbrook?) arr Ramstein 1140 dep 1125, req adv enrt Shannon - Gander (the mysterious next destination?) & need a frequency. NAVY 50496 1007 USB wkg MAINSAIL (VP-3A) later on 11175 (BH) PRESS CARD 2228 USB w/pp through Lajes to DSN 339-XXXX, station answering id'ed as D4 OPCON, OPCON told PRESS CARD to proceed, do not land, & that they would receive further instructions after talking to DCO. (BWS) Elemendorf 1741 USB wkg RHETT 10 ? pp to ? re PAX/DV's trans, 8k fuel, & 20 lbs wet ice, space 1 (EG) MCCLELLAN 1537 USB w/all freq req for HICKAM, then finally on 8968 only. No response. Probably for data transmissions. (JH) JM704 1615 USB to Sigonella, VR53, carrying P-3 engine. Navy JW 270 1330 USB Brunswick-South Weymouth. Reach 72037 1930 USB to Francfurt. SAM 681 1525 USB Calling Andrews VIP via Lajes. Going 465u. Lost contact. Titan 82 1430 USB to Lajes. (JP2) Chalace Bravo: E-3 AWACS 2032 USB wkg Offutt w/pp Hickam Meteo who ID's them as SENTRY 31. (RB)
8971 SPANGLE 709: USN P-3C 2330 USB wkg BLUE STAR re will stay up 101 net for safety of flight w/ACU. (RB)

8974 Airforce linkup frequency 0830-0915 So far Id'ed are AXF Sydney, AXI Darwin, Townsville, Perth and Auckland NZ. (AW) AXI: RAAF DARWIN 0802 USB wkg Hudson 573, flight between Rockhampton & Melbourne (Australia). RAAF Perth, RAAF Darwin, RAAF Townsville & RNZAF Auckland 0900 USB radio checks. (DA2) AXJ: Air Force Pearce (RAAF, Perth, Australia) 2215 USB wkg acft ____ 014. Some amazing long path grayline reception during late afternoon here in North America. (JP) AME 0436 1130 USB is one of the Spanish AF freqs. (JP2)
8989 AFB 601 1430 USB Bakou. IFO 02A 2000 USB C-130 to Ramstein/wkg Thule(!) (JP2)
8992 SDC 843 1305 USB unid (C-130) very extensive wx-reports in Swedish, I _believed_ to hear the numbers 843 several times as c/s, so I wrote down SDC 843, which is one of their Herks. tentative. Lisboa 1309 USB wx Lajes (BH) HOOK-02 2107 USB (flight of 4 EA-6/B) departed Campbell AAF enrt Nellis AFB w/pp via MacDill to ? This was the first EA-6/B I've heard on HF. (DE) MACDILL 1732 USB wkg NIGHTWATCH 01 passing 'exercise injects' starting at GWF 195. MACDILL set up a schedule w/NW01 so that NW01 would meet MACDILL on 9016/13248 at 2030z. (JH) AC 034 1027 USB Lisbon-Split/Selcal CM-BS /Port AF. Cotam 0001 1800 USB DC-8F from Bangkok to Paris-Roissy.end of presid.visit. Cotam 0003: 1420 USB over the atlantic (Point M). Cotam 0039: 1515 USB ops traffic, msg type A (?) & metro 11247 IFN 14 1450 selcal check on AJ-DL. Cotam 2002 1210 USB 41N-14W, ops normal. Cotam 3100: 1450 USB Mostar-Istres. 3 RAPASAN on board (RAPAtriement SAnitaire). Cotam 3181: 1620 USB to Istres. Cotam 3184: 1420 USB from Rome to Brindisi. IFD 04: 1400 USB Yugoslavia-Istres.4 EVASAN on board. IFOR 31 1430 USB Mostar-Calvi.60 pax. Reach 23294: 1035 USB Clg MacDill (JP2) MacDill 1931 USB w/pp for JAKE 11 to JAKE Control (MF2) NW01 1731 USB wkg MacDill. MacDill passes traffic: Exercise Inject GWF195, GWG196, GWH197, GWI198, & GWJ199. MacDill adv NW to call back at 2030z on discrete 9016 pri, 13242 sec for more traffic. (MJ) PAF: Porto Santo, Madeira 0949 USB Portuguese marine traffic list.(SM)
8994 N 800DA: 1740 USB HS-125 going to Niamey (JP2)
9001.6 USCG secure channel? 1419 USB During Cuban incident, heard CAMSLANT mention this freq & 5142.6khz for pp. (DF)
9007 Unid Stn 2221 USB w/airport wx for number of airports; not VOLMET. Apparently a special list for one particular air craft (RF 209 or _RF209 ?), which asked for and got repeat of condx at EINN (airport code?); also asked for wx at Shannon, AFA Andrews listed here in CFL8; but signal was weak. (MS2) [CFL should show primary users: Canadian Forces CanMacs freq -LOGS] SENTRY 40: USAF E-3 AWACS, 964th 2022 USB ACS, Tinker AFB, wkg Trenton Military re wx KCOF, KVPS, & MYNN. CanForce 6214: 2025 USB wkg Trenton Military w/selcall ck ??-AD. (RB)
9011 Sam 518 1100 USB from Aviano to Andrews direct. DV2 on board. Also w/Andrews VIP on 11059 but no contact yet. (JP2)
9014 TUFF 18 1805 USB wkg RAYMOND 07 w/pp, getting wx for somewhere. At 1812z, SENTRY 60 wkg RAYMOND 07 w/pp to RAYMOND 24. Both patches successful. (JH)
9016 MCCLELLAN 1550 with data transmission. Missed second station, but suspect HICKAM. 1704 Signal pops up on 9016, full of clicks, pops, beeps, boops w/the opr reading an EAM string. Opr is very hollow sounding & echo-y, similar to the sound of some of the Commands during a flash override precedence conference call. Probably an inadvertent keying of the xmtr. MACDILL 1830 USB clg ORANGEAID (also clg ORANGEAID on GHFS with all freq request.) No response. Further GHFS all freq request at 1834z (one of the freqs used included 13242). 1835z, ORANGEAID up on freq, where they are moved to 13242. MCCLELLAN 1953 USB wkg SILKCORN (sounds like) in voice & data. NIGHTWATCH 01 0226 USB wkg MCCLELLAN; at 2039z, MCCLELLLAN wkg a now unheard NIGHTWATCH 01; than at 2042z, over to the landline. MACDILL 1713 USB clg MCCLELLAN. (JH)
9017 unid "565" 0945 USB giving wx info to Andrews AB. (AW) ANDREWS 1538 USB wkg SPAR 66. MUNICIPAL 1652 USB clg NIGHTWATCH 01 to exit the net, but raising KNAPSACK (or MAPTACK or MAPTRACK, take your pick) & exiting the net with them. At 1706z, KNAPSACK clg SATURDAY (who stayed active for maybe 24 hours). At 1933, NIGHTWATCH 01 clg SATURDAY. OVERRIDE 2111 USB with EAM, then wkg other stations in the

net. FLATWARE 1716 USB wkg NIGHTWATCH 01, w/FLATWARE entering the net. ORANGEAID 1559 wkg NIGHTWATCH 01. 1552 USB Weak NIGHTWATCH net activity, w/chatter involving LIMA FOXTROT (low frequency). NIGHT-WATCH net 1759 USB w/OVERSLIDE (entering the net) & HUMPHREY. "Current traffic' were two strings taken from 1630z+/- EAM sets. HUMPHREY 2107 USB w/in-the-blind "three-six-nine message of 6 groups" to the net, w/1 minute fast timestamp, and authentication, then gone. BLUEBERRY 2015 USB clg NIGHTWATCH 01 (data xmsn on freq earlier), & answered at 2016z. NIGHTWATCH 01 2043 USB clg and raising ONEPUNCH. NIGHTWATCH 01 is getting ONEPUNCH to ack receipt of NIGHTWATCH's traffic: 2WXVKO... - the final string of the 20/20/26 character EAM set of 2023-31z on the GHFS. ONEPUNCH confirmed receipt of the "eee aaa emm" (term last heard used in March of 95 - it's usually called 'traffic.') At 2302z, WAR46 clg NIGHTWATCH 01 for a signal check; 2345z, "Hello, hello, hello;" 2356z, NIGHTWATCH 01 (now female opr) clg & wkg WAR46 for a signal check. GOLFBALL USB wkg NIGHTWATCH 01. AIR FORCE TWO 1815 USB wkg ANDREWS on 'secondary.' NIGHTWATCH 01 1704 USB with a 20-character EAM; at completion, NW01 called SOLUTION in the blind and made reference to WB. (JH) UNID 1830 RTTY I heard encrypted RTTY (but no voice) which may have been KNAPSACK passing the traffic to the other net participant(s). (MJ)

9023 DEER HUNTER 1700 USB wkg BANDSAW INDIA w/AWACS type traffic, discussion of UHF freqs for links (EG) DRAGNET SIERRA 1740 USB (female opr, & very strong into coastal Texas) wkg a very weak NORTHERN LIGHTS, with talk of SATCOM checks. DRAGNET SIERRA 1740 USB (female opr) wkg NORTHERN LIGHTS. DRAGNET UNIFORM 1836 clg NORTHERN LIGHTS; NORTHERN LIGHTS clg DRAGNET UNIFORM; & neither apparently hearing the other. Within moments, FOCUS (no suffix) clg REDHEAD, w/no apparent response. DRAGNET TANGO 1725 USB wkg DRAGNET UNIFORM. "B2 is the freq pair. Getting strobes from your area." (JH) Deer Hunter: 1729 USB wkg Dragnet Sierra, Focus - Doing checks and DATA via UHF 282.6, 355.2. (WL2)

9031 ASCOT 3450 1259 USB wkg Architect (Tristar) wx GOOY (Dakar) GCTS (Tenerife). TASMAN 3 1412 USB wkg Architect (???) pp Eagle Ops: wx. eta Tasman Formation 1630. (BH) ASCOT 2337 0910 USB wkg Architect selcal check CFAH. req wx for Bruegen (?) ASCOT 9314 0915 USB Architect req. change freq 11247 (nothing heard). ARCHITECT 0945 USB clg Navy 765 radio check wx for EGNT (Navy not heard) (HH) Ascot 3293 1735 USB weather LICJ/LGIR/LGAT. Ascot 5737 1650 USB Selcal AJ-EL. Point M (mid-atlantic ?). IFB 13 0953 USB to Lyneham. IFN 81 1115 USB Selcal CF-DE, returning to Brize Norton, tech.problems. (JP2)

9032 IFN 94 1440 USB Nice. RAF helicopter. (JP2) Aero comms in SS. 02/01 0745 USB."Miami" mentioned several times. QTH unknown. (PS)

9056 ORANGEAID 1600 USB wkg NIGHTWATCH 01. At 1609z, SPACEACE works NIGHTWATCH 01 & enters the net. At 1618z, NIGHTWATCH 01 (now the female opr) works SPACEACE, & confirms 'current traffic' (strings from 1517z and 1454z GHFS cycles). 1637z, very weak EAM on net (concurrent with GHFS), also on 11220. 9057 still active at 1850z. (JH)

9057 FISHBOAT 2107 USB wkg NIGHTWATCH 01. At 2121z OVERDRAFT w/26-character EAM to FISHBOAT. JAILDOOR 1830 USB wkg a barely heard NIGHTWATCH 01. Then, RAFTLOG (probable USN asset) up on freq clg & wkg JAILDOOR. At 1833z there was a request to perform a 'something' (sounded sorta like alpha-2) check; then a "At my count, three, two, one." Expecting ANDVT or PARKHILL comms, instead it was simply one-second ticking. This went on for a minute or so, then voice comms, & a 'thanks for t-quad check.' The 't-quad' chatter is common, but the ticking is not. Sounds similar to the time-standard 'ticking' activity involving the FTS heard on the net on 24 Feb by Larry Van Horn. STATEROOM 1634 USB (fair to poor here) wkg NIGHTWATCH 01. 9057 now primary. (JH) NIGHTWATCH 1910 USB is up and very weak in S.Florida (MF2)

9122.5 WUB5: USACE Norfolk (Virginia) District 1531 USB wkg WUA/New England Dist., Waltham, Mass. (JP)

9320 AIR FORCE ONE 2257 USB wkg Andrews. (BWS)

10046 4XZ: Isreali Navy, Haifa, 2210 CW ISR w/CQ marker. (RB)

10192.5 DRAS: Kriegship Rheinland-Pfalz 1552 USB clg DHJ59. DRAV: Kriegship

Karlsruhe 1525 USB clg DHJ 59 for radiocheck (BvR)
10205 ANDREWS 1902 USB wkg SAM 204 (unheard here) on 917. ANDREWS parked him here while ANDREWS worked on his data modems and other equipment. (JH) SAM 204: USAF C-20B tail 86-0204 2022 USB Special Air Mission a/c, wkg Andrews for rdo ck's. (RB)
10470 FDC: FRENCH DEFENSE COMMS CW BEACON (HW2)
10485 MSH: 2000 USB clg AAC32, Carlisle Barricks, Pa, US for radio check. (CM)
10548.6 Unid 1725 USB Callsigns include: "Combat Tower" and "Coronado" among others. (DW2)
10780 AA624 1350 USB w/pp through Widbey Island OB. (MS2) USS Moosbrugger 0155 USB wkg Cape Radio. Cape Radio booming in So Cal.. Cape Radio said they were simulcasting on 10780 and 6937.. Asked Moosbrugger to respond w/best freq heard. (PP) CLEARANCE-1 : 1754 USB clg "Fisher", Cape Radio answers, rdo ck. NCWA: USS Moosbrugger 1755 USB (DD-980) clg Cape Radio, no joy. QSY'ed to 6937 w/Cape. NQSP: USCGC Vigorous (WMEC-617) 1807 USB wkg USS Moosbrugger w/comms cks. KING 3: USAF HC-130 aero/res 1815 USB a/c, wkg "Fisher" (Cape Radio), re ETA, is on taxi now for take off. Comms re launch Space Shuttle Columbia on mission STS-75. (RB)
11114.5 CMU967: Havana, Cuban Naval 2125 CW Ident followed by "OK? K". (PS)
11155 RIT: RUS Navy, Sveromorsk 1531 CW clg RKF80/RCQ48 (MC)
11155.4 RIT: CISN VAYVACH 1404 CW Tfc at 16 wpm. Calls RKZ de RIT with tfc "fm RJD56" in p/l. (DW)
11175 Reach 59411 1134 USB Clg Mainsail for RC. No joy (AB) REACH 72530 1508 USB wkg MAINSAIL no joy -> 8968 (Thule) pp PMSV wx GCLP (Las Palmas) 2000. REACH 114BG 0815 USB wkg Ascension (C-141B) pp Mildenhall AMCC: C-141, diverting from Keflavik, eta 1030, need fuel only to continue mission (80k). Mildenhall says they can't handle, too busy, call Hilda. pp Hilda: divert to Lakenheath, crew comes up w/Shannon, but Lakenheath it will be, 3 hrs of fuel on board, low on fuel on arrival. Need flight plan Lakenheath ENEV (Eveness, Norway), eta Lakenheath 1045. At 0906 again, pp PMSV wx Lakenheath ->15016. SPAR 66 0838 USB wkg Croughton (C-20A, 83-0500) pp DSN 480-8450 (Phantom = EOC = European Operations Center): dep 0703 eta Rota 0945. The female radio operator on this flight 'assisted' Croughton: whenever an a/c called & Croughton didn't answer in 3 seconds she interrupted & asked Croughton do you read this and that flight. The operator at Croughton got a bit annoyed & explained he was wkg other frequencies as well & asked her to 'just relax a little'. SPAR 66 1030 USB pp Phantom: arr Rota 0939, tailnr. 500, is Spar 43 on schedule? (Spar 43 usually is a T-43 - Boeing 737). IFO 09 0842 USB wkg Croughton (IFOR related) pp ramstein PMSV wx ETAR 1000, pp Ramstein AMCC: tailnr 0002, A1, 3 pax, no cargo, req. early dep. slot, req. upload information. JM 789 0843 USB wkg Croughton (US Navy). REACH 40637 0844 USB wkg Croughton (C-141B) pp Mildenhall AMCC: eta 1115, A1, 21312lbs/8 pallets. pp Mildenhall PMSV wx EGUN 1115, pirep: C-141 5305n 2614w fl330. REACH 40637 1006 USB wkg Croughton pp PMSV wx Lakenheath and Ramstein. pp Mildenhall CP: cross winds at Mildenhall out of limits, divert to Lakenheath. REACH 60196 0856 USB wkg Croughton (C-141B) pp Ramstein CP, Ramstein PMSV wx 1200, lost contact. BATIK 0904 USB wkg Croughton msg traffic, 9 tri-graphs. Spelling not sure. IFO 19 0911 USB wkg Croughton (IFOR related) pp Sigonella CP, PMSV wx 1215. REACH 50239 1000 USB wkg Incirlik/Croughton (C-141B) all frequency calls. REACH 285ZZ 1009 USB wkg Croughton pp PMSV,wx Brize Norton.pp Hilda: scheduled to Mildenhall, winds are out of limits, alternates Ramstein & Brize Norton, crew change planned at Mildenhall, req div to Brize: divert to Lakenheath,eta 1250. IFO 10 1036USB wkg Croughton (IFOR related). REACH 2R3 1048 UZSB wkg Croughton (C-5?) pp Ramstein AMCC: eta 1400, A2. pp PMSV (BH) REACH 67FP USB This may not be the correct c/s as I couldn't hear them, just the receiving station. They were getting the wx for OBKB and I'm sure Kuwait was mentioned. Is this Kuwait? RY26 2330USB wkg Ascension weak/unreadable. (CH) NASA-931 1900 USB for radio check to Offutt. First called on 11176 (DE) Hickam 1734 USB with 6PA auth IT (EG) REACH 60184 2305 USB w/Ascension pp for Dover CP/meteo. REACH 60145 2308 USB w/Hickam meteo (GG) Casey 01 KC-135A tail-number 57-2589 1925 USB wkg Incirlik GHFS w/pp to DSN 858-xxxx,

req pre-flights for the 15th. Andrews replies '15th at 05.00, 114u primary, 982u secondary, 365u backup'. (GT) MACDILL 1534 USB clg SPAR 65 at 1534z on 11175..0, so she's still active; and MCCLELLAN did an all freq request at 1537z for HICKAM, finally clg HICKAM on 8968 only w/no response & gone. WISE 81 1617 USB wkg OFFUTT w/pp to BLACKBIRD OPS, and pa to another DSN 579 number. AUSSIE 049 0250 USB wkg HICKAM w/pp to TRAVIS wx. SPAR 57 1705 USB clg MAINSAIL. At 1706z, OCEAN 95 clg MCCLELLAN. RADIATION 1538 USB clg ANDREWS at end of the final string of the 20/20/26 character set of the 1517z EAM bcsts. He was having numerous tech problems with apparently his xmtr. TURBO 0614 USB wkg OFFUTT, with apparent OPS NORMAL, 3-element group traffic. OFFUTT seemed to be helping & assuring the opr in this process, & seemingly confirming that it was ok to 'reference GLOBAL STATION re passing your traffic.' D2U 1717 USB wkg MACDILL w/pp to COMSUBLAND DWO, adv that he will continue with the mission, supporting the battlegroup. Apparent U.S. attack sub. SAM 973 1544 USB wkg MACDILL. JAILDOOR 1817 USB wkg MACDILL w/pp to NIGHTWATCH 01, getting wkg frequencies: S310/S309. JAMBO 41 0036 USB wkg ASCENSION w/pp to MUDBUG CONTROL. Interrupted at 0037z by GHFS EAM rotation; heard at fair level on 17976, so maybe propagation was a little better on that day. AIREVAC 7003 0757 USB wkg MCCLELLAN w/pp tfc. SAM 681 0002 USB wkg ASCENSION, getting ANDREWS freqs. Up again at 0012z wkg ASCENSION w/pp to ANDREWS wx. ISRAELI AIR FORCE 007 1617 USB clg MACDILL, w/ nothing heard. 2XB 1809 USB wkg MACDILL. At 1933z O4S clg "any GLOBAL STATION this net" & raising ALBROOK; placing pp to Roosevelt Roads. At 1944z, RAID 26 clg OFFUTT. 2309 GHFS with 20-character EAM string "FOR ASHMORE." MOTOWN 3 1308 USB clg MACDILL. AIR FORCE RESCUE 50987 1534 USB wkg ALBROOK w/pp to KING OPS (DSN 854 number), making hourly checks. At 1625z, RAZOR 02 wkg MACDILL w/pp's. (JH) Airevac 10T4 1315 USB Incirlik-Aviano. Blue 11: 1040 USB Both Croughton and Ascension, planning A/R at 60W. Navy 50496: 1435 USB clg Presidential Radio, QSY to 616u (9320), then 211u (11056), contact "at bottom of every hour, due to radio problems, only one set available"). Quid 12: 1510 USB KC-135, 100th ARW,south Elba,to Mildenhall(the south of the island of Elba seems to be one of the favorite A/R zones in the Mediterranean). Reach 11382 1300 USB to OKBK /n=50007. Reach 1191 1530 USB to McGuire. Reach 11A3: 1445 USB 38N-18E, FL 330, to Incirlik. Reach 11S2 1445 USB to Sigonella. Reach 59411: 1515 USB going to Spangdhalem, support for A-10s det. returning. Reach 60128 1000 USB to Ramstein/followed by 60141. Reach 6F5: 1435 USB to Kuweit City Int'l. Spar 66 1410 USB Stuttgart-Andrews. (JP2) MacDill 2100 USB wkg pp w/Blue 71 to Shocker. Andrews 2124 USB wkg pp w/Horizon 21 to Raymond 9, dep ? approx 15 mins till, est their station on the hour, req pass msg Horizon 23 they are not required to make a third run. Andrews 2140 USB wkg pp w/Razor 42 to Andrews ext & Metro for ETA 0100 & will be conducting three touch & goes. SHARK 22 2226 USB w/pp to Raymond 9. Albrook 2250 USB w/pp for Shark 18 re a/c was struck by lightening right after takeoff, app no damage, but the hit was on right aft side. (KS) Offutt Global USB w/"SKYKING, SKYKING (repeated 2x) DO NOT ANSWER, ZULU MIKE FOXTROT. TIME 56" tfc. Elmendorf USB w/Lima Alpha 338-1. McClellan 2138 USB //11244. Offutt 2140 USB w/Reach 106. Offutt 2145 USB giving wx for Kelley AFB, Melrose range w/Mainsail w/Reach 4 Mike 5 MacDill providing various pp's for Airforce Rescue 864 Mentioned Cherry Point several times. (LB) Andrews 1929 USB wkrg PP for SPAR 84 to Commercial #507-828-2101 in Panama. Albrook 1952 USB wkrg PP for SHARK 11 to Howard meteo. MacDill 2031 USB wkrg PP for SUMO 74 to a DSN#582-3458 MOUSE 14. Offutt 1927 USB wkrg PP for Reach 50259 to Andrews CP & meteo. Albrook 1929 USB wkrg PP for Shark 63 to Furious. Andrews 1945 USB wkg pp for SHARK 23 to Lobo. Andrews 2216 USB w/pp for MAGIC 59 to a DSN#423-1110. Ascension 2241 USB wkrg PP for REACH 50239 to TRAVIS meteo & CP (REACH 50239 C-141). Albrook 1911 USB wkg PP for SHARK 24 to LOBO. Offutt 1943 USB w/pp for REACH 50001 to Dover meteo. Andrews 1948 USB w/pp for KING 84 to DNS#854-7127 (Rescue Ops). Albrook 1920 USB w/pp for NAVY INDIA 9 MIKE GOLF to DSN#Jack City (MIKE GOLF was passing traffic for Spangle, reporting group counts. Albrook 2012 USB w/pp for SHARK 60 to Lobo. Ascension 2000 USB w/pp for REACH 4 ROMEO 2 (C-141)to Dover CP. Albrook 2008 USB wkg PP for SHARK 12 to Lobo.

Albrook 2009 USB wkg PP for SHARK 33 to Lobo. Andrews 2012 USB w/ pp for REACH 0447 to Dover CP. Ascension 2000 USB w/pp for REACH 60158 Dover CP & meteo. Bayonne 2008 USB w/pp for AFORE 21 to DSN 875-6750 BAYONNE requested switch to 11217. Albrook 2025 USB w/pp for KING 64 to Rescue OPS. Albrook 2033 USB w/pp for AFORE 21 to DSN 875-6701 SANDCASTLE OPS AFORE 21 was checking deconfliction routes to Latin America. Albrook 2049 USB w/pp for REACH 00532 to Charleston meteo (REACH 00532 C-17). Albrook 2059 USB wkg PP for SHARK 21 to Lobo. Albrook 2100 USB w/pp for KING 64 to DSN# 854-7113 Patrick meteo. Andrews 2131 USB w/pp for REACH 45 FOXTROT 5 to Dover meteo. LIMA DELTA 011 1924 USB clg for a ground radio check, no joy. Andrews 1925 USB w/pp for GOLD61 to McGuire CP & meteo. MacDill 1930 USB w/pp for REACH 40615 to Hilda America (Tail #40615). Albrook 1935 USB w/pp for SHARK 12 to Lobo. Ascension 1927 USB wkg PP for AGAR 72 to a DSN#525-4138. Ascension 1934 USB gives PEETRO 41 a radio check (PEETRO 41 is a KC-10). Andrews 1941 USB w/pp for REACH 70037 to HILDA & Scott AFB. meteo. MacDill 1955 USB w/pp for AGAR 72 to Wright Pat meteo. Andrews 2011 USB w/pp for SPAR 86 to a DSN#. Andrews 1932 USB w/pp for SNOOP 44 to Offutt. Albrook 2016 USB w/pp for SHARK 85 to LOBO. Andrews 2034 USB wkg AUTOGRAPH who is looking for Nightwatch primary & secondary freqs. (P-X903 S-S310). (MF2) NIGHTWATCH 01 0308 USB wkg Ascension w/pp to "0344" NW not heard. D2U 1719 USB wkg MacDill w/pp to COMSUBLANT. D2U adv that they now feel they can continue w/mission, & that the tiger team could not get to <?> in time. They will be getting an escort for the rest of the exercise. D2U said that they will maintain a "can-do attitude." (MJ) HAND 72: 0349 USB wkg Ascension GHFS w/pp SANDCASTLE op's (who ID's as DUKE). ADMW: USAV Malvern Hill 0606 USB (LCU-2025) clg Albrook GHFS, no joy. JAMBO 30: B-52 2nd BW Barksdale 1622 USB AFB, clg USS Tonkin(?), no joy, a weak vsl had been up clg 'any station this net' w/USS ID. Later hrd USS Defender. VOTOR 86: 1649 USB wkg McClellan GHFS w/pp 930 DSN, VOTOR CP, re was airborne 1550, ETA O'Hara of 1500L. KING 81: USAF fixed-wing aero rescue a/c 1650 USB wkg Offutt GHFS w/pp MINUTEMAN, passes ETA & adv tail number is 50981. HOBBY 35: 1658 USB wkg Albrook GHFS w/pp to meteo re wx Youngstown AS, Ohio & Wright-Patterson AFB, Ohio. JAWS 42: 1711 USB wkg Albrook GHFS w/pp 872 DSN. Executive 1 Foxtrot 1716 USB clg Mainsail, no joy. AGOLF(?) 95: 1719 USB wkg Offutt GHFS w/pp 242 DSN, Shepherd Field ANGB, WV, re shut 1 engine down & is diverting Patrick AFB. 167th AG C-130? LIFTR 96: 1719 USB wkg MacDill GHFS w/pp Grand Forks scheduling re ETA to AR106L, tanker will be RAID 12. DARKSTAR MIKE: E-3 AWACS 1725 USB wkg Offutt w/pp 574 DSN, PYRAMID. HIKER 31: 1735 USB wkg Offutt w/pp RAYMOND 12 (Minot AFB) re wx. AAOU: USAV Manassas 1742 USB (LCU-1667), clg Albrook, no joy. (RB) MAILMAN 1845 USB checked in w/GHFS & asked for the current NightWatch freqs. (RD2) 9DF: 1953 USB via pp to a "High Seas Marine operator" at a 912 area code. Inquired as to whether or not the op had received his messages via lower of two HF freqs? (RR) RESCUE 50987 1537 usb wkg Albrook w pp to King Ops. Reporting 50987 and 50982 are on search station. Will report hourly. (TJ) WISE 81 2050 USB wkg Andrews/req pp to Hurlburt Metro. (TO) MAGNUM 01 1950 USB w/[Andrews??!] ? The a/c [?] refused to work w/Hickam (said he was told not to). MAGNUM 01 then announced it was an exercise. He is simulating a landing in some area where he will prepare some landing facilities for four C-130s. MAGNUM 01 wanted brush removal equipment. The exercise sounds like it is for a medical emergency in some remote area. They wanted 8,000 units of typhoid vaccine, IV tubing, and all sorts of related medical emergency equipment, much of it dealing with a filthy water supply. DART ?? 1955 USB has a hung BDU-33 & is returning to Dyess. SAM 681 2000 USB being called by Offutt. (TR) LOBO 532 1929 USB clg any station, Ascension responded, but 532 apparently could not hear Ascension. X1G 1814 USB clg 7DW & asking for 7DWs SITREP. 7DW adv 228 (bearing?), 6.4 (knots?), 27.15N, 095.40W. At 2306Z, 7DW reported: 6.8, 298, 27.26N, 96.15W. CURT(AIN?) RAISER (??) 1816 USB clg Offutt. Offutt Offutt, this is CURT(AIN?) RAISER, CURT(AIN?) RAISER, attempting to conduct HF comm drill in the clear, how copy, over? REACH 1191 gave them a radio check. CURT RAISER used 'interrogative' once, and sounded like he was reading from a script. RFR 232

(pronounced RAF AIR) calling MAINSAIL, & answered by Offutt GHFS. 232 req that Offutt relay to EGQK that RFR232 departed KNBG at 1600Z, ETA KDOV at 1830Z. AIR FORCE RESCUE 864 2041 USB w/pp via MacDill GHFS to DSN 854-7127. RESCUE 864 adv Rescue Ops at Patrick AFB that 864 had just completed one aerial refueling and would have a 2320Z on-scene time. Mission planning computer was indicating that they wouldn't have much of a loiter time at the SAR area, so 864 wanted Ops to call MCAS Cherry Point & see if they had an alert tanker that might be able to relieve 864. At 2104Z, RESCUE 864 (sometimes started to ID as KING...) made pp to Patrick Metro, wondering what time the moon would rise on the morning of 14 FEB Zulu. Unid 219th 2055 USB MacDill Air Force Base, this is the 219th req a radio check please, no joy. MacDill GHFS 1945 USB clg & radio-checking PACIFIER 99 (Niner niner). MacDill indicated he was just making sure 99er was still in the net. O9Y 1840 USB clg MacDill, req pp to commercial 912/-------, (Commander, Submarine Group 10, Kings Bay Georgia). MacDill responds that **DSN** 912/-------- was busy, & did O9Y have an alternate #... O9Y didnt catch that MacDill dialed the commercial # as a DSN call, didnt suggest an alternate #, & adv they'd try again later. JAWS 52 1905 USB req pp to Eglin Metro at DSN 875 via Andrews Global. Andrews adv that was a bad number. A few mins later, JAWS 52 req a pp to Eglin Metro at DSN 872-4800, & got his wx for Eglin at 2030Z! AFRES MC-130E? AXIS 62 1916 USB w/pp via Andrews to DSN 361. 62 adv AXE OPS (aka AXIS OPS, the 42nd ACCS Squadron Ops office at Davis-Monthan AFB AZ) that their ETA was 1645 local, & that the delay was due to a late take-off because of maintenance & wx. MOTOWN 02 1930 USB req pp to MOTOWN OPS on 800# via Andrews GHFS (not heard). QSYed to 15016. WISE 81 2108 USB w/pp to Hurlburt Metro for a 1600L ETA via MacDill Global. (TT)

11180 Spar 67 1000 USB (Croughton discrete) from Villafranca to Ramstein clg "Freebird ops"on DSN 4802116 (new c/sign ?-used to be "Gulfstream"). (JP2)

11181 MACDILL 2010 USB clg/wkg SENTRY 31, trying to get SENTRY 31 to give MACDILL a general direction so that the antenna could be properly pointed. There was no reply, but MACDILL became much weaker here, & by 2020 MACDILL apparently lost them. (JH) KNAPSACK 1750 USB/RTTY wkg MacDill, passing encrypted RTTY. It took several tries for KNAPSACK to get a good copy of MacDill's tape. At one point, KNAPSACK asked the MacDill op to make sure that his antenna was pointed toward the northwest. After MacDill rotated the antenna, KNAPSACK said he had a much better signal. Several more tries were needed before KNAPSACK got it, though. (MJ) D2U (Navy Submarine) 1600 USB wkg MacDill GHFS, Navy unit D2U Commanding Officer (self ID'ed) w/pp through MacDill Global to COMSUBLANT DWO. I missed the very first part due to D2U being very weak, but he did indicated that he was surfacing to establish bridge to bridge comms with the surface units present in the area & the only long haul comms he had was HF Global. He stated that his UHF was out, and that his present location was at the north end of area Islander. He req this info be passed to SOPA (Senior Officer Present Afloat). Also req the mission be aborted (also mentioned something about the exercise) & that he wanted to proceed to Roosevelt Roads PR & wanted a Tiger Team to meet them to start repairs. When mentioning the Tiger Team I thought I heard him say something about flooding on the vessel and that was the reason he lost comms and needed the Tiger Team. Interesting comms to say the least. First confirmed sub I have heard on GHFS since the demise of HICOM. (LVH)

11187 VOLTAIR 1536 USB (weak here) wkg BOOMTOWN (unheard here) in voice & data. (JH)

11205 IFB 09: 1510 USB Zagreb-Northolt, contacting Trenton. Canadian a/c? (JP2)

11214 TRENTON MILITARY 2001 USB w/pp for MCC of DRAGNET TANGO to EAGLE 3 at a DSN 339 number. JAKE CONTROL/JAKE 0248 USB activity. (JH) Trenton Mil 2031 USB active w/Sentry 50 & Dark Star Mike wkg pp (MK) SENTRY 51: USAF E-3 AWACS 1745 USB wkg TRENTON MILITARY, Ont, CAN w/pp to unid DSN, then ID's as DARKSTAR NOVEMBER, re training scenario, HAMMER 71 is a flt of 4 Canadian CF-18's involved. RAZOR 03: 1748 USB wkg RAYMOND 24, re have they had any contact w/SENTRY 40. BANDSAW

INDIA: USAF E-3 fm Tinker AFB 1749 USB wkg TRENTON MILITARY w/pp Tinker Meteo. BANDSAW LIMA: USAF E-3 fm Tinker AFB 1839 USB wkg TRENTON MILITARY w/pp tfc. TROUT 99: 1915 USB wkg Andrews on "64 upper" for comms ck, QSY primary, 250. SENTRY 55: USAF E-3 AWACS 2107 USB clg RAYMOND 24, no joy. SENTRY 51 : USAF E-3 AWACS 2108 USB wkg RAYMOND 24 re pp FALCON 03 re landing training request for 3 pilots. DARKSTAR NOVEMBER: (E-3 AWACS) 2117 USB clg SENTRY 55. SENTRY 30: USAF E-3 AWACS 2121 USB wkg RAYMOND 24, re SatComm down. SENTRY 60: USAF E-3 AWACS 2131 USB wkg TRENTON MILITARY pp EAGLE 2, MCC passes mission report. (RB)

11217 SENTRY 31 1910 USB wkg MACDILL w/lengthy pp to RADAR MAINTENANCE (Tinker). AWACS w/numerous tech problems apparently involving the doppler radar. Signal strength of a/c would become very strong, then fade into the noise floor. Aircraft was described to ground party as being on an active surveillance mission for the INS. (JH) DUPE 03: KC-10 1637 USB clg Bayonne Global, no joy, clg mainsail, no joy. (RB)

11220 ANDREWS 2045 USB wkg unid callsign (probably SAM #'s). (BWS) ANDREWS AFB 1016 USB (Mystic Star) wkg SPAR 66. (DA2) THREESOME 2104 USB clg CONTENDER. SPACEACE 1819 USB clg NIGHTWATCH 01. NIGHTWATCH 01 1956 USB (female opr) w/38-character H3... EAM first heard from ORANGEAID at 1951z on 11244. The GHFS picked it up at 1958z. ORANGEAID 2004 USB wkg NIGHTWATCH 01 (female opr), w/reference made to "zero two" (probably NIGHTWATCH 02, who is lurking). NIGHTWATCH 02 2131 USB wkg NIGHTWTCH 01 in the clear & apparent PARKHILL. JAILDOOR 1823 USB clg & wkg NIGHTWATCH 01. SAM 204 1825 USB wkg ANDREWS. NIGHTWATCH net activity 1554 USB w/one of the stations being INTERVIEW (sounds like), possible EAM broadcaster. At 1808z, NIGHTWATCH 01 up clg station (could not make out id); at 1839z NW01 advising someone that he was going monitor-only for 90 minutes. GOLFBALL 2008 USB wkg NIGHTWATCH 01, & checking into the net. At 2011z, GOLFBALL pops up on 11175; calls & raises MACDILL; & thanks MACDILL for his help. At 2012z, GOLFBALL back up on 11220, wkg NIGHTWATCH 01 w/ANDVT comms. At 2015z, EAM on freq, maybe coincident with GHFS. SAM 201 1503 USB wkg ANDREWS. SAM 787 1814 USB wkg ANDREWS w/pp's. (JH)

11226 Spar 76 1530 USB top DV on board, clg SHAPE about phone calls from car on arrival, to Croatian president, U.S envoy, etc. (JP2)

11229 MANGROOM 1457 USB (good level here) wkg NIGHTWATCH 01 (weak.) (JH)

11244 OFF POST 1710 USB clg MAINSAIL, no ans heard (EG) DEWEY 29 1540 USB will apparently be out and about for awhile today as he was just up again on 11244 (1533z) wkg OFFUTT w/OPS NORMAL msg & a single 3-element group, timestamp & authentication. At 1400 USB w/pp's to VQ4 OPCON at 1415z+/-; & DEWEY 29 at 1444z wkg ALBROOK w/OPS NORMAL & a single 3-element group. OFFUTT popped up on freq and briefly worked ALBROOK after the completion of this comm. DEWEY 29 wkg OFFUTT (and MACDILL briefly) w/apparently hourly OPS NORMAL/trigraph traffic. CHOCOLATE 1551 USB w/pp NIGHTWATCH 01. 1551z wkg OFFUTT w/pp to NIGHTWATCH 01, where NW01 will be monitor only until maybe 1800z but will communicate via WB; and 1745z via MCCLELLAN re further status of the quiet NIGHTWATCH 01; the current traffic (a H3 string heard on the GHFS at 1702z); & the wkg freqs currently in use - 5700 & 6730, both low for N.A. midday. MCCLELLAN 1410 USB as lead station, w/100 character EAM: BDHQ6V... MCCLELLAN 1447 USB as lead station, w/ 20-character EAM 'FOR NEUTRAL (sounded sorta like FOR LUTHRO.) At 1455z HUNTER 51 wkg ANDREWS w/pp to a DSN 875 number - SANCASTLE OPS w/common codeword/minutestamp traffic. Further EAMs at 1500z; 1503z; 1518z (FOR NEUTRAL); 1555z (90-character BDMXHS...); 1620z (FOR NEUTRAL); 1728z (78-character BD7V3P...). DEWEY 29 1444 USB wkg ALBROOK w/OPS NORMAL & singe 3-element group /minutestamp/authentication msg. At completion of this comm, OFFUTT up on freq & wkg ALBROOK. TRANQUIL 1419 wkg MACDILL w/pp to common DSN 339 number- VQ4 OPCON (female opr.) A/c MC w/administrative housekeeping chores. The a/c radio opr kept making mistakes such as clg MACDILL "ALBROOK." He would apologize, explaining that it's a long night. OFFUTT 2054 USB w/all freq call to KNAPSACK "with request." No response. OFFUTT 1836 USB as lead station with very rare 26-character EAM "FOR CUPPY" (or GUPPY.) At 1840z OVERRIDE (another station active for maybe 24 hours or more) with the 26-character string "FOR CUPPY/ GUPPY", //on 6739 & 11244 for sure. Rare. At 2109z,OVERRIDE w/26-character string

//on 6739; 11244; & 9017. MACDILL 1704 USB with all freq request for ORANGEAID (common on the GHFS on the next to last Tuesdays of each month if they are going to conduct their 'exercise inject' activity.) 1713z, MACDILL clg NIGHTWATCH 01 w/all freq request. 1718z, EAM xmsn on GHFS;MACDILL clg NIGHTWATCH 01 at 1722z; 1725z; 1727z; and raises same at 1728z, adv that MACDILL has traffic (the injects) for him & to meet him 8992. 1728z, ORANGEAID calls & works MACDILL for 'traffic', adv to meet MACDILL on 9016 at 1830z. MACDILL 1820 USB w/all freq request for ORANGEAID. At 1830z, OFFUTT as lead station, w/rare 26-character "For..." EAM (FOR BALL QUE.) At 1848z, ORANGEAID up on freq, bcsting the FOR BALL QUE traffic. Then ORANGEAID would be up on freq at a h+30 minute schedule with the FOR BALL CUE traffic for the next two hours (the remaining time window left in the 4 hour exercise activity). ANDREWS 1848 USB wkg NIGHTWATCH 01 w/'exercise inject' traffic. Again, as per past practice, at 1926z, NIGHTWATCH 01 calls MCCLELLAN; raises MCCLELLAN; and advises MCCLELLAN that NIGHTWATCH 01 'is standing by for traffic.' At 1930z ORANGEAID w/FOR BALL QUE traffic; 1931z a very weak ANDREWS with 'exercise injects', w/the strings slightly 'off' from earlier incrementing strings (again, as per past practices - it's as if there are two (or more) lists here). At 1944z, OFFUTT now up, clg NIGHWATCH 01 (& cochannel, SPACEACE clg NIGHTWATCH 01), then into the 'exercise injects.' At 1951z, ORANGEAID up on freq with 38-character EAM (H3ZVXL..). INGOT 21 2038 (phonetically spelled) wkg ALBROOK w/pp to common DSN 875 number that has been associated in the past with SPECTRE OPS, but recently id'd as SANDCASTLE OPS. Passed common codeword/minutestamp traffic (codewords today apparently maybe U.S.football team names). At 2042z, ANDREWS clg ORANGEAID, then into 'exercise injects.' At 2054z, COBRA 06 wkg OFFUTT w/pp to RAYMOND 21 (after the OFFUTT opr got un-confused about the numeric attached to RAYMOND) At 2100z, the OFFUTT opr adv that she had to proceed with 'the exercise', & at 2101z she called MADELEINE, then into more 'exercise injects' in the blind. At the completion of her injects, SPACEACE pops up on freq (2103z), calls & works OFFUTT, verifies the first exercise inject that she had just passed (GYS 255). At 2119z, SPACEACE on freq w/ pp's, & he finally phonetically spelled his call (it sometimes sounded like SPACEAGE). He apparently missed the MACDILL calls to him on 11175 w/in the blind exercise injects - the apparent final two for this 4 hour exercise. NIGHTWATCH 01 1617 USB clg something that sounded sorta like TANGO "on 11244 upper." At 1721z, MCCLELLAN wkg TROUT 99. At 1753z, "Any station this net. Any station this net. This is MCCLELLAN. This is MCCLELLAN." No response, so repeated. FISHHAWK popped up on freq and responded to the call; after a few seconds, MCCLELLAN was up on freq and *maybe* making a reference to the FISHHAWK call, but was immediately gone. SAM 204 1900 USB wkg ALBROOK w/pp to SAM COMMAND. SAM 204 was told that they were pre-flighted, & in their database, for 616 upper, but to go to 917 upper. OFFUTT 1456 USB disregarding a 1454z EAM string for a FOXTROT bcst prefaced with INLIST; then completing the EAM. 1517z, another EAM. NIGHTWATCH 2013 USB net player (could not make out the call), female operator, with 20-character EAM, with no simulcast freq found. As w/many of these 'player' EAM bcstrs, she had a very noisy background -this time lots of busy "chatter" from many folks.Typically, she also had very distinctive 'government' alpha and numeric pronunciations: fife; qwa-beck; an Oss-car that would do the MOSSAD lady proud; and tree (the GHFS oprs sometimes do the 'government' pronunciations, except for the "tree's" - for some reason they just won't do it (maybe because it often gets mangled and comes out "tweee."). SAM 203 2023 UBS clg MAINSAIL 'with request'; and raising a very weak ANDREWS. RECOURSE 0655 USB wkg ALBROOK, getting NIGHTWATCH 01 wkg freqs. SNOOP 47 0621 USB wkg ALBROOK w/pp to a DSN 271 number (OFFUTT wx); 4 hours out of, enrt to, OFFUTT; looking for wx between the "Texarkana radial and OFFUTT." (JH) IFO 82 1342 USB Sarajevo-Zagreb-Ramstein. (JP2) Andrews 2238 USB wkg pp for Reach 67951 to McGuire AMC Command Post, Alpha 2 due to a fuel leak in right wing. (KS) Andrews 2001 USB wkg PP for REACH 4 JULIET 7 to 39ths duty desk. Andrews 2011 USB wkg PP for NIGHTWATCH 02 to OFFUTT meteo (MF2) MacDill 1721 USB clg NIGHTWATCH -All frequency request. After several

tries, NW answers on 11244 at 1727. ORANGEADE 1728 USB wkg MacDill, MacDill adv OA that he will have traffic for his station in 60 mikes (min.). OA should then call MacDill on discrete 9016. NW01 1730 USB wkg MacDill re traffic. MacDill req QSY 8992. (MJ) Chocolate 1745 USB w/pp through McClellan to Nightwatch 01. McClellan 1748 USB w/EAM msg. (MK)

11247 ASCOT 5210 1954 USB VIPER (Port Stanley) clg, no joy. KITTY 4 1004 USB wkg Architect (Bae.146 ZE700) standard relay U: dep GMMX (Marrakech) 0945/55 eta GMMZ (Quarzazate) 1020/25 selcal LMBD. (BH) Ascot 3425 1515 USB To Kenya,asking for Nairobi/Mombasa metro.Selcal LM-BJ. Ascot 3656 1430 USB Brize Norton-Mac Chord. Ascot 4298 0920 USB Iraklion-Mascate.Selcal AH-JM. Ascot 4910 1120 USB Akrotiri. Selcal AJ-BD. Ascot 5212 1018 USB Dakar-Ascension /selcal AK-EG. Ascot 9034 1435 USB probably Kinloss-USA (asking for LPLA/CYQX metro) IFN 06 1349 USB Selcal AJ-CG. L3U 1629 USB Gibraltar-St Mawgan-Kinloss. Nimrod. (JP2)

11253 RAF's Architect Volmet 2230 USB move from 11193. (GT)

11267 IRONCROSS 1540 USB w/EAM. (MS2)

11460 SAM 973 2152 USB wkg ANDREWS w/pp's. (JH) Sam 681 1014 USB to Amman. (JP2) Spar 67 1330 USB Tuzla-Sarajevo-Aviano-Andrews.

11494 JAILDOOR 1824 USB wkg NIGHTWATCH 01. (JH)

11634 BANDSAW KILO and Ascension 2251 USB using freq. as a "discrete". BANDSAW KILO placed pp to RAYMOND 24 (Tinker AFB) on 11175, asked Ascension for a discrete freq., moved to 11634. This is an Andrews AFB MYSTIC STAR freq.(BWS)

12070 NIGHTWATCH 01 (female opr)1825 USB wkg SPACEACE. At 1841z, NIGHTWATCH 02 active on freq. (JH)

13200 SNOOP 55 1301 wkg Croughton (C-135) relay to .... control: eta in 3 hours (BH)

13211 NIGHTWATCH 01 1826 USB wkg SPACEACE. SPACEACE 2105 sending data to NIGHTWATCH 01. (SPACEACE had been on 11244.0 wkg OFFUTT at 2103z). NIGHTWATCH net 0037 USB w/EAM traffic trailing the GHFS. 0040z, NIGHTWATCH 01 passing an EAM to unid station. At 0135z, unid station wkg GRISWALD with ANDVT comms. ANDREWS 0026 USB wkg SAM 681. (JH)

13236 Cotam 0021: 1715 USB -23East, to Djibouti. (JP2)

13242 MACDILL 1658 wkg OVERDRAFT (female opr) w/voice & data. (JH) MACDILL 1837 USB clg, & eventually wkg ORANGEAID, w/data xmsns at 1841z. (JH)

13248 ANDREWS 1944 USB wkg SAM 050. ANDREWS 2006 USB wkg SAM 204. (JH)

14383.5 NNN0CZR 0046 USB w/pp patch via NNN0VNO. The latest MARS list shows this vsl to be USNS Powhatan, a fleet tug with civilian and Navy crew. (RA)

14441.5 NNN0CUQ: USS Frank Cable 1759 USB (AS-40) wkg NNN0JHR, QSY 14391.5 for pp tfc. NNN0NZN: USS Mount Vernon 1802 USB (LSD-39), clg ASSMS w/beam heading of S.W. for routine pp tfc. NNN0CVL: USS Shreveport 2037 USB (LPD-12) wkg private shore sta NNN0JHR w/QSY to 14470.0 re pp tfc. NNN0CXN: USS Portland (LSD-37) 2206 USB clg ASSMS, NNN0ERA ans, QSY 14470 for pp tfc. NNN0CUB: USS Arthur W. Radford 2207 USB (DD-968) MARS station, wkg NNN0JHR w/QSY 14477 for pp tfc. NNN0CUO: USS Spruance (DD-963) 2209 USB MARS station, clg NNN0LNB & NNN0FLH no joy. NAVMARCORMARS clg. (RB)

14587 Cotam 3123 1334 USB From Brindisi to Sarajevo. 14587 is probably "Reconfort".

15016 NASA-1 2114 USB wkg MacDill (G-3, C-20) sounded like they sounded like they had just departed somewhere in Brazil did not catch destination. (DE) Andrews 1731 USB w/EAM, also MacDill ? @ 17:33 (EG) OFFUTT 1739 USB as lead station, with another 26-character "For..." EAM, this time FOR TASTER. At 1745z, a GHFS station with female opr (did not hear an id) w/single read-through of the FOR TASTER string, & gone (MCCLELLAN??). (JH) Reach 104 SE: 1705 USB From Lusaka to Ascension. What exercise ? Reach 1100 1120 USB in Tbilissi & having difficulties to get support from embassy. Was an important flight in relation w/"treaty", trying to contact OSIA in Germany to solve problem. Reach 16311: 1500 USB Lajes-Ramstein, air refueling. Rather unusual c/s. Reach 70016: 1810 USB Mission ABB 4N1, to Roosevelt Roads, carrying Hazardous cargo (JP2) Reach 40645 1800 USB w/pp through Albrook to Norfolk. (MK)

17050 4XZ: Israeli Navy, Haifa 1131 CW "vvv de 4xz 4xz ar ar" marker (MC)

18018 ASCOT 5428 0932 USB wkg Architect req wx for ??. Change to 11247

(very very weak on that freq.) (HH)
18019 COLT 901: 1939 USB wkg Ascension on "discrete" freq. Came from 11175. (BWS)
18192 REACH 18192 0834 USB Incirlik (C-141B) pp Hilda East: arr LCLK (Larnaca, Cyprus) 23rd 1615, dep 0830, eta LGAT (Athens) ...., tailnr. 40625, mission AAM181902. REACH 18192 1012 USB wkg Croughton, pp Hilda: arr LGAT 1015 (on the ground when calling), req. 1 hr early departure. (BH)
20995 Unid: 1030 USB Portuguese Navy? (ANEE)

=ALL OTHER SSB/AM/CW/& MISCELLANEOUS MYSTERIOUS STATIONS=
60 WWVB: Ft. Collings, CO 0229 CW . (RM)
235.3 Unid beacon USB starts something like "Coast Guard...Dublin...117..." covered by noise and QRM. Any ideas? (Not sure of words, could be almost anything, but repeats about every 30 secs). (MS2)
2366 Unid 1005 USB 2 stns talking to ea other in Dutch or Afrikaans. (MS2) (Ary sez this is a popular Dutch maritime 'chat' frequency -LOGS)
3000 Unid numbers 0314 AM female English. (MS2)
3050 Unid 0323 USB Japanese conversation, two stns on same channel. (MS2)
3068 8R8I: 2230 CW "TU5J TU5J TU5J DE 8R8I 8R8I 8R8I QTC" then exchanged 5DG's encoded msgs. CW send by hand. (CK)
3077 Unid 0320 USB Japanese guy? in what sounded like ship-to-ship (simplex) conversation, then breaks out into song in EE having to do w/"Land of the Golden Sun" and then another stanza about arriving in Philippines, went on for about 3 minutes. (MS2) [suspect you found the Chinese guys who sing love songs to ea other in Catonese, hrd for years -LOGS]
3261 Glenorchy Base (South Island Mountain Radio Service 0730 USB wkg ZKIB14 ZKIB72 ZKIB78 ZKIB79 ZKIB86 ZKIB101. Mountain Radio provides general comms for hunting/hiking parties etc operating in the mountainous areas of NZ (Southern Alps in the South Island, and the Urewera and Kaimanawa Ranges in the Central/Southern North Island, Mountain radio service provides regular daily skeds (around 0630 & 2030 local time). They provide wx reports, flood warnings, etc & pass any msgs to & from the field parties as required. Users include people such as professional hunters, tour party guides etc. (AB3)
3345 ZKVY: North Island Mountain Radio Service, Base 0740 USB wkg ZKVY11 ZKVY19 0740 on. (AB3)
3348 Unid: USB 0750 NZ Rural Comms
3363 Unid: 0215 USB unid French (ANEE)
3403 Unid: 0144 CW Very end of coded msg. (RM)
3426 Unid: 0713 USB w/Parkhill type voice scrambling. (RB)
4050 Unid: 2000 USB French (ANEE)
4146 Unid: 0810 USB German Simplex. (SM)
4445 Unid 0730 USB They are regular here at 0730 Z starting with radio checks & sometimes exercises in FF, usual callsign used is LIMA 21, 22, Key station is LIMA 21 and one day they revealed full c/s as FAL 21 etc. ID? (JS2)
4506.5 Unid: 0955 USB French Simplex. Air France ? Mentioned "Un Chambre, deux Person". (SM)
4547 UNID 0749 USB wkg ?AT req. pp A112. Other callsign heard ZAO. in GG. (HH)
4585 WWJ74: FHWA, Cadillac, MI 1435 USB Kittyhawk 303, CAP, NC, w/SHARES tfc. (JM)
4635 Unid: 0804 USB Italian Simplex. Very Very Clear. Heathrow mentioned !? (SM)
5090.1 Unid: 0301 CW station w/`647' sign on. Then into 5lg's (118). Off w/"589 589 113 113" +20 db. (PS)
5091 Unid: 1930 USB Mossad long messages. (ANEE)
5211 WGY912: FEMA, Berryville, VA 1434 USB wkg WGY927, FEMA, Region 7? w/comms about exercise. (JM)
5230 VLB2: 1745 AM Mossad #s station til 1800 (ANEE)
5301 OLX: MOI Prague, Czh 0504 USB YL in Czech w/numbers or phrases (voice reader). (RB)
5308.5 French Simplex 1406 USB Charlie xx callsigns. (SM)
5430 Goroka PNG telephone net 0935 USB conversation in Pidgin. (AW)
5437 Unid: 2030 USB Mossad #s til 2045. (ANEE)
5480 Moroccan Gendarmes 1915 USB stolen car reports? (ANEE)

5741 WGY929 & I6D 1744 USB on SHARES coordination freq 929 in NV and I6D in ID (GG)
5746 Unid: 1915 USB MI6 #s station til 1930. (ANEE)
6510.7 Male 0000 USB voices in Spanish (LB)
6530 Unid: 0815 LSB Italian. (ANEE)
6537 Unid: 0815 USB Italian. (ANEE)
6565.4 Unid: 0815 LSB Italian. (ANEE)
6570 Unid: 0715 LSB Italian police/army?. (ANEE)
6613 Unid: 0715 LSB Italian ams or truckers?. (ANEE)
6622.1 2 males 2358 USB in Spanish (LB)
6684 Unid: 0854 USB OM w/very accented EE "I read you". (RB)
6698 Unid: 0830 LSB Galician. (ANEE)
6713 Unid 1207 USB Very weak talk. (MS2)
6730 UNID 2255 USB SS male voice clg "Ola" (4 times, repeated twice) then in conversation with other male. (LB)
6768 Unid: 0830 USB Galician. (ANEE)
6780 Unid: 1600 USB CIA #s til 1615. (ANEE)
6810 Number Station until 0622 AM - missed header group count/callsign,but groups are same as those copied on 8.160. Monitoring continued until 0622 UTC. Transmitter problems developed at approximately 0612 with distorted audio, some loss of signal strength and return of signal strength to original levels although the audio distortion continued. At 0620 the transmission ceased, although carrier remained. Audio again started, still distorted, then ceased. A second audio signal started at 0622, calling 261 - started into 5f repeated message without giving group count. Interesting sequence. If pattern holds the second weekly broadcast should be Tuesday or Wednesday eve approximately same time -different pair of freqs. (RC1)
6824 Unid: 1945 USB Slavic phone (ANEE)
6844.5 Unid: 0135 CW ...y 9377 k (gbld) 2i4 (gbld) 9377 k ... cfm coyoi51 coyoi51 keoy85met 6q dy 273 qdy 273 (gbld) (RM)
6870.3 Unid: 1030 CW likely russian, til 1130 (ANEE)
6880 Unid: 1745 USB w/enciphered speech (ANEE)
6900 Unid: 2015 USB MI6 #s til 2030. (ANEE)
6954 Unid SS 1245 USB pair of stations talking. (MS2)
6959 Unid: 1715 USB MI6 #s til 1730. (ANEE)
6977 Unid: 1800 USB Russian femop (ANEE)
6980 Unid: 0845 USB Portuguese. (ANEE)
6989 Unid: 0845 USB Arabic maybe Algeria? til 0900. (ANEE)
7000 Unid: 1930 USB Russian (ANEE)
7409 UNID: 1006 CW Slow CW in FF. Appears two letter callsings. Two stns on net both slurring c/signs. "TD de TV"? (DW)
7502.3 Unid: 1715 CW tuning poss Turkish navy? (ANEE)
7516 Unid: 1645 USB Portuguese (ANEE)
7552.1 WNFT417: Morristown, NJ or Washington, D.C. Bellcore station 1705 USB wkg WNWK804, Cincinnati, OH, att to pass a message and configure some equipment. WGY901: FEMA Maynard, MA 1710 USB wkg KAA60, FCC Grand Island, NE, w/same. (JM)
7656 UNID: 1427 CW Slow cw. Poor fist. "bk's" "vvv zth k" "r 11 11 4 28 k" "qru". Only one side of qso heard. (DW)
7677 Unid: 0915 USB Catalan druggies? (ANEE)
7707.8 Unid: 0915 USB Ethiopian? (ANEE)
7751 Unid: Arabic 0930 USB arabic phone Maghreb (ANEE)
7918 Unid: 0730 USB Mossad #s til 0745 they run the same tfc again in 12 hours. (ANEE)
7918 FYH: 1730 AM mossad (ANEE)
7947 Spanish tobacco farmers 0830 USB (ANEE)
8055.5 Unid Spanish ad-hoc 1511 USB lots of shouting and whistling. (MS2)
8081 Unid station possibly Fiji 0855 LSB pp tfc. (AW)
8131 Secure comms (Parkhill) 02/01 0751 USB. Sounded Spanish. QTH unknown. (PS)
8160 Number Station 0340 AM Female voice, msg was in progress & continued until 0449 UTC - unusually long time. Sign off was 508 (callsign) 497 (group count) 00000. Indicative of the old KGB (FIS) and groups were repeated. Signal strength was 40dB over 9 indicating probably coming from Cuba (Old GRU site?) (RC1)
8173 Unid: 1730 USB Russian military or maritime? (ANEE)
8869 Unid: 0018 CW att QSO, QSY 8874 where it was app no joy. (RB)

8871 Unid: 2137 USB w/Parkhill voice scrambling. (RB)
8938 Unid: 0915 USB Spanish. (ANEE)
9005 Unid: 1745 USB Arabic. (ANEE)
9012.3 Unid Filipino stn 0850 USB long list of orders, invoices etc. (AW)
9130 Unid: 1730 USB Mossad #s til 1745. Unid: 1715 AM mossad huge message-poor spy! (ANEE)
9251 MI6 #s station 1800 USB tfc til 1830 [Lincolnshire Poacher station -LOGS] (ANEE)
10225 Unid Fiji,or Tonga 0925 USB tfc in EE list of orders. (AW)
10350 MIW2: 0815 AM mossad (ANEE)
10365 Unid: 0900 USB tfc from AHE (French Human Rights Association) Lyon-Sarajevo (ANEE)
10426 MI6 1630 USB MI6 #s station (ANEE)
10493 FEMA Net 1420 USB wkg OKC Emergency Planner re equipment going to Harrisburg (PA?) airport on C5A from Logistic Center, OKC is OK City. (MS2)
10564 Unid: 1015 USB Spanish. (ANEE)
10616 Unid: 0815 USB French. (ANEE)
10724.8 Unid: 0900 USB Catalan and Castilian (ANEE)
10891 WGY916: FEMA Denton, TX 2041 USB clg NMF, USCG Boston, MA; WWJ48 FHWA Lakewood, CO; and KAD640 INS Swanton, VT w/SHARES tfc. (JM)
10929 Unid Fiji,Tonga or Solomons 0940 USB pp tfc. (AW)
11123 Unid: 0915 LSB (ANEE)
11370 Unid: 0930 USB asian lang. (ANEE)
11416 Unid: 1915 USB GRU #s. (ANEE)
11416 UNID: 1407 CW Tfc in offline (5fg's) encryption at 27 wpm. End msg w/"ar". Begins second "89 = 13072 64616 48869 80611 24638" etc then after that msg ends "ar" and "382 382 382". (DW) (poss OLX, Prague -LOGS)
11416.7 OLX: 1600 CW Czech intel svc 543 5fgs til 1615 (ANEE)
11475 Unid: 1000 USB Russian, probably a phone patch (ANEE)
11494 WGY 912 2001 USB clg a alphanumeric callsign (did not make it out.) (JH)
11512 Unid: 0930 USB Catalan (ANEE)
12166 Unid: 1838 USB 2 OM/JJ comms between ARQ xmsns on 12166.7 kHz. (RM)
12230 Unid: 1015 USB Russian? (ANEE)
12277 8BY: 1944 CW "vvv vvv vvv 8by 8by 8by 306/958/020/097/058/532/469/ 641/623" rptd. Xmsn ended 2000 w "AR" Returned 2040 w/same 3FG's. (RM)
12311 Unid language 1550 USB one side of pp--weak. (MS2)
12317 Unid 1635 USB 2 men in SS; simplex. (MS2)
13375 MI6: 1330 USB MI6 #s station til 1345 (ANEE)
13375 Lincolnshire Poacher 1506 USB Clg 95736.//11545//15682.(MF)
13443 Unid: 1200 USB enciphered speech (ANEE)
13533 EZI: 1545 AM mossad #s station til 1600 (ANEE)
13835 Unid: 1215 USB Arabic phone. (ANEE)
13874 CIA Number station 1215 USB till 1245. (ANEE)
13969 Unid: 1030 USB language-senegalese? refs to Dakar (ANEE)
14345 Unid: 1130 USB Russian (ANEE)
14410 Unid: 0915 USB Spanish (ANEE)
14487 MI6: 1030 USB MI6 numbers station 5fgs til 1215 (ANEE)
14540 Unid: 0915 USB Portuguese (ANEE)
14564 Unid: 1215 USB Greek phone patch (ANEE)
14695 Unid: 0930 USB Arabic til 0945 (ANEE)
14931.4 `8BY': 1555 CW V marker & "106/095/689/ 784". Good signal. (PS) (others report this sta is in France -LOGS)
15678 Unid: 1330 USB Italian. (ANEE)
15682 MI6 #s 1130 USB tfc til 1300. [Lincolnshire Poacher - LOGS] (ANEE) Lincolnshire Poacher 1506 USB Clg 95736.//11545//13375.(MF)
15822 CIA Numbers station 1200 USB till 1215 (ANEE)
16084 MI6 Numbers 1330 USB MI6 #s till 1345. Right on sked [aka Lincolnshire Poacher - LOGS] (ANEE)
16432 Unid Filipino stn 1015 USB pp to "Kilo Charlie" (AW)
16650 Unid: KM 1445 CW Net control has the callsign KM & 2 stations joining the net are OME and EDS.Appear to be in South america but just caught the tail end of the net when outstations were requesting tfc "fills". Some philosophy tossed about. (RC2)
18303 Unid: 1300 USB Czech intelligence svc #s station (ANEE)

18303.9 OLX: 1245 CW Czech intel svc, msg "t11 261" til 1315 (ANEE)
18690 Unid: UTC? USB link between Montevideo, Uruguay - Spain military liaison? (ANEE)
19092.3 UNID. [SMC] 1122 CW Calls "BMSA de SMC qsa?". Then "BMA de SMC nil pse qsy qsy qsyalahtiaui alahtiaui as" (DW)
20195 Unid: 1030 USB Indian? (ANEE)
20345 Unid: 1615 USB Russian (ANEE)

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(EG) Edward Griffin, S.Francisco, CA, USA: Drake R8/ATS803A/AOR8000/R7100/R1
(EW) Eddy Waters, Collinswood, Australia: NRD 525, R8, Hoka Code 3
(GG) Gary Glaze, Willamette Valley, Or, USA: DX440
(GT) Graham Tanner, London, England
(HH) Harry "Hero" Hofmann, Zwolle, Netherlands: Yaesu FGR100
(HW) Hans Wildschut, Zutphen, the Netherlands: Lowe HF225 with 12m wire
(HW2) Harold Woering, USA: TS440S
(JH) Jeff Haverlah, Houston, Tx, USA: R5000/R7/FROG7/RFB65
(JJ) Jeff Jones, Ca, USA
(JJ2) Jan Janssen, The Netherlands
(JM) Jack Metcalfe, Danville, Ky, USA
(JP) Jim Pogue, Memphis, Tn, USA: R-2000, Sony 2010
(JP2) Jacques Pagnoux, western France: NRD535, AOR3000A
(JS2) Joachim Stiller, Gilzum, Germany
(JS3) John Svendsen, Norway
(JSM) Steve McDonald, Port Coquitlam, BC, Canada: R71A, M6000
(KM2) Ken McLareh, Ottawa, CAN
(KS) Keith Stein, Woodbridge, Va, USA
(LB) Linda Brodsky, Malverne, NY, USA: Kenwood R2000, Universal M1000
(LVH) Larry Van Horn, Brasstown, NC, USA: Yaesu FRG100
(MC) Mike Chace, Bath, UK
(MES) Mark E. Schoonover, San Diego, Ca, USA: Kenwood R1000, PK232MBX, JVFAX
(MF) Mark Fine, Remington, Va, USA: Drake R8, AEA PK232MSX
(MF2) Mark Fink, S. Florida, USA: SW8
(MH2) Matt Hassock, SE London, England: AR3030
(MJ) Mike Jacobs, Allentown, Pa, USA: R5000
(MK) Mark Kirker, NY, USA: Sanagean 803
(MS) Michiel Schaay, Doorn, The Netherlands: IC R71E, Hoka Code 30
(MS2) Matt Stutterheim, New London, Ct, USA: (2)IC R71A's, R7A, R9000
(PP) Phil Potts, San Diego, Ca, USA: Drake R-8
(PS) Paul Scalzo, Montreal, PQ, Canada: R2000, M7000 v.7
(PT) Peter Thompson, Crewe, Cheshire, UK: Lowe HF225/Universal M-7000
(PT2) Phil Tomaszewski, Ludoc, AB, CAN: Yaesu FT990
(RA) Rick Albright, Merced Ca, USA: Sony 2010, Realistic DX-440

(RB) Rick "RD" Baker, Austintown, Ohio, USA: Icom R71A, Icom R72, M-1000
(RC1) Ray Colbert, El Paso, TX, USA
(RC2) Ralph Cameron, Nepean, Ont, CAN
(RD) Rick Dickens, Chicago, IL, USA: Kenwood TS930SAT
(RD2) Robert K. Dixon, Davis, Ca, USA: Drake R8A
(RJL) Bob Lewallyn, The Woodlands, Tx, USA (was BL)
(RM) Robert Margolis, Lake Forest, IL, USA
(RR) Rik Rasmussen, Raleigh, NC, USA: Icom R72
(RS) Rich Stedman, RI, USA
(RS2) Rod Sparrow, NW London, England: RA1792/RA1772 Code 30/Code 3
(SM) Stuart McMurtrie, Surrey, UK: Racal 1772
(SS) Stan Scalsky, Leonardtown, Md, USA: Icom R71A, M7000, Code 3
(TJ) Timothy C. Johns, Dallas, Tx, USA
(TK) Takashi Kuroda, Tokyo, Japan: WJ HF-1000/Racal RA67906M R2174(P)URR, M7000/8000
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(TR) Tom Roach, San Jose, Ca, USA: Watkins-Johnson HF-1000, NRD525
(TT) Tim Tyler, Ypsilanti, Mi, USA: Kenwood R5000, Sony SW55, TS50, AR8000, MVT7100
(WdM) Wim de Mol, Wezep, the Netherlands: Lowe HF-225
(WL2) Wayne Lake, San Francisco, Ca, USA
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ Vol. 2, No.04 April, 1996 ////
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WUN Electronic Edition Editor
utelistener@msn.com
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If you have problems in this, or need further information contact Rick Baker at: utelistener@msn.com or ae411@yfn.ysu.edu

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN Publishing, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

If you are reading this newsletter from another source, such as a BBS, please let us know!

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From your Electronic Editor:
* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

WHAT'S INSIDE:
o Membership News by Mike Wolfson
o International Civil Aero by Tony Orr & Peter Ivakitsch
o Ask WUN! by Colin Goodall
o Digital Review by Ary Boender
o The WUN Military Column by Jim Pogue
o New Products, Books, News and Reviews by R.D. Baker
o Nautical News by Jim Pogue
o The QSL Report by Martin Barry
o Utility Round-up by Ary Boender
o Worldwide Bandscan by Tim Braun
o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

Hello and welcome to the April edition of WUNNEWS and the WUN Membership News. Our group continues to add new members from different countries. The main WUN list had 604 members at the beginning of the month. WUN-DIGEST had 58 members. Tim Braun emailed me with the news that we have 35 members getting the mail edition. Finally, Jason Berri let me know that we have 195 members receiving the WUNNEWS list. We have at least 45 members on various non-email BBS systems reporting in.

I can also report that the country list has increased by 1 in the last month. We now have a member logging on from Mauritius. Welcome to the group. The complete country list is: Australia, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Great Britain, Greece, Iceland, Ireland, Israel, Italy, Japan, Luxembourg, Malaysia, Mauritius, Mexico, Netherlands, New Zealand, Norway, Peru, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, Taiwan, Tunisia, United Kingdom and United States.

As always, I welcome information from members for inclusion in the club's database. The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested.

Here is the survey:
E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

Have a good month and good luck with your monitoring.
Mike

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INTERNATIONAL CIVIL AERO

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Here we are with another edition of ICA and thanks go out to this month's contributors Wim de Mol, and Sir Thomson's Gazelle. We'll start off this month's column with Vic's SELCAL WATCH and move quickly into our special feature, GREEK DOMESTIC HF AERO. Then in AIRLINE NEWS, we'll bring you the latest in hot civil aero developments from around the world.

I must once again echo Vic Gubbins' sentiments about the level of contributions to SELCAL WATCH. I know that there are a lot of you out there who enjoy new registrations, and enjoy seeing new and updated selcal information, so please consider contributing your new info next month! Remember, what you may think is ho-hum stuff, is another DXers missing link. Let's all flood my mailbox for next month's SELCAL WATCH, shall we? So without further delay, we proudly present to you, ICA...

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SELCAL WATCH-Vic Gubbins

Welcome to a very slim edition of Selcal Watch this month with only one contributor sending stuff in. This is hardly what you call inspiring, so please keep this section going by sending me news each month via the address above.

Tie-ups :

BG-CF	Jet Air 212	DC8	LX-TLB
DQ-AR	SIA 26	B747	9V-SMW
EQ-BL	DAL 57	MD11	N810DE
FG-MS	FDX	A300F	N665FE
FH-CE	DLH 8207	B747	N509MC
FM-LR	JEX 32	A320	N304ML

New Selcals:
none received!!!

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GREEK DOMESTIC HF AERO-Tony Orr

With the recent Greek civil aero loggings appearing on the WUN list, I thought it would be of interest to present an overview of the domestic Greek HF aero network. Following this I have compiled a list of the most current frequency information available for the Greek HF stations.

Greece has many islands, many of them served by small aerodromes with limited facilities, suitable only for VFR flights, others with international airports and some by military air bases who accept civilian flights. Many major cities are also served by airports with regular flights from Athens. The ATC system is a mixture of very modern technology and obsolete systems which are gradually replaced. VOR, DME, VORTAC and TACAN systems mark most air routes and are supplemented by old style NDBs, however most communications are now on VHF (civil) and UHF (military). In addition Athens monitors the ICAO EUR channels on HF, but is not as active as Malta. This activity is most pronounced on 5661 kHz. This is because there is good VHF coverage of most of Athens FIR. In the past Athens Radio SWA was active with many RTTY links to neighboring ATC centers like Cairo and Malta, although in recent years these links have disappeared and have been replaced by standard international circuits (cable or satellite) provided by the Hellenic Telecommunications Organization (O.T.E.). Most major Greek airports are served by 2 dedicated communication links: a teletype link and a switchboard

(magnetic) telephone (in addition to standard telephones and fax, but most not authorized for long distance calls to avoid abuse by personnel). Nearly all airports also have telex. There is also the HF/SSB network on 5637 kHz. This network has been used in the past to switch to 3015 kHz during nighttime and also use some other frequencies like 5912 and 5680 (SAR). At that time all radios were AM and 5637 was actually 5638 (carrier frequency). Of course most users now use USB, but selcals are still transmitted in AM on 5638. All comms, even at night, are on 5637 nowadays. The stations are also CW capable and many of the operators are good in CW, so someone calling in CW can expect a prompt answer.

The callsigns in the series SW..are still valid, although many smaller new airports have not been allocated a callsign (other than their names!). The network on 5637 is quite extensive and is used by all Greek airports to pass small bits of urgent information, like flight departures (those which have already filed a flight plan and submitted it over teletype or telex). Also it is used as a backup channel in case of wire line or equipment failure to submit flight plans, request or submit weather METAR reports etc. (Athens is covered on HF by Shannon VOLMET but other Greek airports with international tfc are not). At times foreign ATC centers can be heard contacting Athens for information, stations including Malta and Cairo, as well as rare appearances by Tirana. In addition, 5637 is also used in Romania for aero comms and is used as an information channel for military planes which file flight plans in Greek airspace, such as helicopters (CH-47D, UH-1, AB-206 etc) or C-130 transport aircraft. Many aircraft also use this frequency for A/G comms and often Olympic Airways long distance (North America etc) uses Athens while over the Atlantic to request weather METAR for Athens.

Special callsigns heard on these frequencies are:

"K.H.E." (pron. ki'eh): Civil Aviation Electronic Engineering, Athens
"SIERRA YANKEE": Skyros Is. (mil.) [LGSY]

The following are airport names, used instead of locations:

"Kazantzakis": Iraklion International Airport [LGIR]
"Makedonia": Thessaloniki (Mikra) Int'l [LGTS]
"Diagoras": Rodos Int'l [LGRP]
"Kapodistrias": Corfu/Kerkyra Int'l [KLGR]
"Philippos": Kozani [LGKZ]
"Megas Aleksandros": Aleksandoupolis [LGAL]
"Dimokritos": Kavala [LGKV]

Here are a few of the SW... callsigns:

SWI	Ioannina	LGIO
SWM	Kalamata	LGKL
SWB	Thessaloniki	LGTS
SWT	Kastoria	LGKA
SWN	Kefalinia	LGKF
SWK	Kerkyra	LGKR
SWE	Souda	LGSA
SWF	Khios	LGHI
SWO	Kos	LGKO
SWL	Larisa	LGLR
SWX	Limnos	LGLM
SWW	Mikonos	LGMK
SWP	Preveza	LGPZ
SWR	Rhodes	LGRP
SWA	Athens	LGAT

Here is a list of all known Greek Aero stations operating on 5637 kHz. Airport names when known are in parentheses. Any additions or corrections would be most welcome here at ICA:

Agrinion/Alexandroupolis (Dimokritos)/Andravida/Athinai (Hellinikon) (Athinai also operates on 3015 and 5638 AM)/Chania (Souda)/Ionnina/ Iraklion (Nikos Kazantzakis)/Kalamata/Karpathos/Kasos/Kastoria (Aristotelis)/ Kavala (Megas Alexandros)/Kerkyra/Corfu (Ioannis Kapodistrias)/

Kefallinia (Argostolion)/Khios/Kos/Kozani (Filippos)/Larissa/Limnos/Mikonos/Milos/Mitilini/Preveza/Rodos (Diagoros)/Salonika/Samos/Skiathos/Sparta/Thessaloniki (Makedonia)/Thira (Santorini)/Zakinthos

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AIRLINE NEWS

AIR EUROPE resumes summer charters to YYZ effective April 3rd with up to four weekly flights from Milan, Venice, Lamezia Terme, and Pescara. B-767 are slated for use on these routes. AIR LIBERTE has started it's A-310 Paris-Mirabel-Toronto services. With the certain demise of Mirabel service will now doubt transfer through Dorval. BRITISH AIRWAYS plan to operate a series of Concorde flights to Canada this summer in conjunction with Nordic Tours. The first of these flights is scheduled for a May 17th arrival in Toronto.

Later the same day the Concorde is set to leave for Edmonton for an overnight stay. Concorde returns to YYZ on the 18th and returns to LHR on Sunday May 19th, listen for BA 099 and BA 098 flight numbers. CATHAY PACIFIC are enjoying great success with their Hong Kong-Toronto service, in fact service effective July 1st will increase to a daily schedule. Cathay continue to operate both A-340 and B-747-400 aircraft types on this route. For those in the Pacific regions listen out for CX 828 and CX 829. Finnair are once again gearing up for their summer charter flights to Canada. Flight numbers 122 (eastbound) and 121 (westbound) are set to begin May 29th between Toronto and Helsinki, keep an ear open on the NAT family of HF frequencies for their MD-11's on Wednesday's and Sunday's. Iberia have pulled the plug on their Madrid - Toronto service. Attempts were made with AIR CANADA on a codeshare agreement, sadly though this wasn't to happen. IBERIA will continue to operate Madrid-Montreal service.

MALEV Hungarian Airlines will soon begin their summer Budapest-Toronto charter program. Flights operate on June 5, 12, 27, 30, July 3, 7, 15, 24, 31, August 6, 12, 21, 28, and September 11, 18, and 25. Once again B-767 aircraft are slated for this service.

BRITISH AIRWAYS has again added a high season second flight to Washington, DC's Dulles International Airport (IAD) using 767-300ER's. Flight numbers are BA223/BA222. AIR CANADA will begin Montreal (Mirabel)-Brussels service effective 14 May. Effective 6 June United will add Chicago-Dusseldorf service. USAir has added Philadelphia-Rome service on 1 April, Pittsburgh-Frankfurt on 23 April, Philadelphia-Munich on 23 May, and Philadelphia-Madrid effective 15 June. USAir has also added Pittsburgh-Frankfurt flights as follows effective 24 April: US781 FRA-PIT dep 1125 arr 1435 and US782 PIT-FRA dep 1700 arr 0700+1 with 767-200ER equipment. Flights operate on a daily basis. EL AL ISRAEL has added weekly Tel Aviv-Los Angeles service to its schedules effective 30 March, weekly Miami-Tel Aviv service effective 23 June, Chicago-Tel Aviv effective 24 June, and San Francisco-Tel Aviv weekly service effective 30 June, all with 747-400 equipment. SABENA has been using A340s temporarily on its Brussels-New York (JFK) services. Flight numbers are SN548 JFK-BRU departing 1915 arr 0815+1 and SN541 BRU-JFK dep 1140 arriving JFK at 1330. UNITED AIRLINES's current 777 schedules across the Atlantic are as follows: ORD-FRA UA 940/FRA-ORD UA941; ORD-CDG UA942/CDG-ORD UA943; EWR-LHR UA906/LHR-EWR UA907; IAD-FRA UA916/FRA-IAD UA917; IAD-LHR UA918/LHR-IAD UA919; IAD-CDG UA914/CDG-IAD UA915. Also note that UNITED is operating the 777 on it's UA982/UA983 from Miami to Sao Paulo. UA982 departs Sao Paulo daily at 2135 and arrives Miami 0445+1, and the return UA983 departs MIA 2330 and arrives GRU 0835+1. NORTHWEST is using the 747-400 on its Detroit-Amsterdam services for the time being. NW68 DTW-AMS departs Detroit 1730 and arrives Schiphol 0710+1, the return NW67 departs Amsterdam 1045 and arrives Detroit 1300. UZBEKISTAN Airways operates the following schedule across the Atlantic: HY207 AMS-JFK dep 1245 arr 1515 on Wednesdays, and the return JFK-AMS dep 1745 arr 0745+1. On Fridays, HY205 AMS-JFK dep 1300 arr 1530 and the return JFK-AMS HY206 dep 1800 arr 0800+1, all flights operated by Airbus A310s. Finally, AIR JAMAICA may have begun service to London's Heathrow Airport by the time you read this. JM001 departs Montego Bay's Sangster International at 1500 arriving LHR 0620+1 on Tuesdays and Fridays, and on Saturdays departs 2205 arriving 1325+1. The return JM002 departs LHR 1135 and arrives MBJ 1535 on Wednesdays/Saturdays, and departs LHR 2110 arriving MBJ 0100+1 on Sundays, all with ex-Delta A310s.

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CIS FREQUENCY INFORMATION

The following is a list of some of the stations heard on the Regional and Domestic Air Route Areas in the CIS and surrounding areas;

Aktyubinsk; 3440, 4669, 4728, 5586, 8951
Arask; 4669, 8951
Ashkhabad; 3467, 4669, 4728, 5658, 8951, 10018
Baku; 2926, 5487, 8918, 11333
Kiev; 4712, 11165
Krasnovodsk; 4728
Kyzl-Orda; 4669, 8951
Mineralynyye-Vody; 2926, 4712, 5487
Moscow; 11390
Odessa; 4712
Penza; 3440, 4712, 5586
Rostov; 2926, 5487, 4712
Samarkand; 3467, 4728, 5658, 10018
Simferopol; 4712
Tashkent; 3467, 4669, 4728, 5658, 8951, 10018
Tbilisi; 4712
Uralsk; 3440, 4669, 4712, 5586, 8951
Yerevan; 2916, 4712, 5487, 8918, 11333

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With that tidbit of information we bring yet another edition of ICA to a close. From all of us here to all of you out there, good DX and happy aero hunting!

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ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor

****

This new section is here to deal with requests for help and information to and from WUN members. This column is for you to ask questions; to locate others with similar interests (even non-HF like SatCom or VHF aero); to locate or sell equipment; to ask about receiver problems, or to just ask about anything. If you have a question to ask then ask it via this new section.
Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.

IF YOU WANT TO REPLY TO AN ADVERT NOTE THE SENDERS ADDRESS
AND REPLY DIRECT OR SEND THE ANSWER TO THIS COLUMN.

1. FOLLOW UP TO PREVIOUS NEWSLETTERS
****

from: John@metsys.demon.co.uk
Subject: INMARSAT RECEPTION

I have seen several questions and comments regarding this theme on this news group. This is such an easy operation in its basic form.

1> You need a dish, due to simple operation the dish is the main front end, hence the bigger the better. Six feet is so easy that no-one can complain...I recently sold a pile of 10 foot dishes brand new at 50 pounds each.
2> Get a KU band LNB of European use, these are new at less than 40 pounds.
3> Remove the top (microwave/mixer) board and make a direct connection to the input of the IF stage (950 - 1750 Mhz).
4> produce a 2.5 turn helical feed with a splash plate made from old PCB stock.
5> Feed the resultant signal into a an ICOM 7000 and you will receive

Inmarsat signals.
6> If you are capable of L band pre-amp design, you can reduce your dish size.
I have received Inmarsat using this system for some eight years.
Setting up takes about 30 seconds with a spectrum analyzer.

John. (D.J.Standen. BSc. MSc. M.Inst.N. M.R.S.C.)

Thanks John for your simple explanation (Ed).
.....

From: Hooligan@aol.com
Subject: Parkhill vs ANDVT

Regarding the question about the Parkhill-family of voice encryption devices vs. ANDVTs, I can provide some basic answers. ANDVTs & their use on HF are perhaps another topic I might research further & do an article on sometime.
The Parkhill series devices were developed in the 1960s, and phased in over the 60s & 70s for securing HF, VHF, UHF, & UHF SATCOM voice circuits, using a time-domain system that secures traffic up to Top-Secret, but allowed for the basic cadence of the secured voice traffic to be recognized. Parkhill also isnt very good over noisy circuits with a lot of fading. One improvement allowed for diversity/non-diversity mode (easily distinguished by preamble length for us monitors), yet the U.S. government was eager to phase out the Parkhill family of voice transmission-security devices with a more robust system.

Enter the Advanced, Narrowband Digital Voice Terminal (ANDVT). ANDVT is actually a misnomer, because in addition to processing and securing analog voice, the system also is compatible with record-mode circuits.

Users consider ANDVT to be a tremendous improvement over Parkhill, particularly on HF. It also allowed for other TSEC (such as KY-58 'Vinson' family VHF/UHF crypto gear) systems to be removed, reducing weight and saving space on the aircraft and ships, as well as ground-mobile & fixed locations.
Cryptographic key management is streamlined with ANDVT, but there is one downside, the importance of which depends on some particulars involving voice-traffic.

ANDVT vocodes (digitizes) the analog voice to digital voice using a codec that works well on narrowband (i.e. HF/SSB) circuits, this product is then fed into a KY-99 encryption unit to secure the digital-voice, after which it is fed into the communications circuit (radio or telephone). The process is of course reversed on the receive-side of the link. But the deciphered audio is a mechanical voice...you do not have voice-recognition!

This isn't a problem when the message (traffic) is the only factor, but there are plenty of times when the messenger is just as important. For example, the Air Force One Communications Systems Operator can pass some sensitive frequencies to the CSO aboard NIGHTWATCH 01 via an HF ANDVT circuit without voice-recognition being a concern. But if the President aboard AF1 wanted to speak with the Secretary of Defense aboard SAM 973, an ANDVT/KY-99 circuit would usually be a poor choice because voice-recognition becomes an important factor! Tim Tyler

Thanks for the information Tim!

2. HELP WANTED
****

from: John of London
Subject: UNID Stations

Two more stations have been bothering me for many years so perhaps someone could help:-
1) Station using 850/50 encrypted RTTY for 23 hours 50 minutes every day and which sends the test tape (le brick with no ID) for the remaining 10

minutes between 08:50 and 09:00 Zulu. The transmissions are in parallel on 2064, 8565, 15969.4

2) Station which relays GYA CARB (availability b'cast) on 19860 from 05:00 to 17:00 Zulu and on 9130 from 17:00 to 05:00 Zulu. (the times of change-over do vary quite widely). This station uses 850/75 and is NOT in the UK, signal strengths suggest the Middle East or possibly Cyprus. The signals are delayed by a quarter of a second with respect to the coast station bands which suggests that it receives its feed via satellite from the UK. This station is frequently reported as GYA from outside the UK being assumed to originate in the UK.

Well, anyone got the info on this? (Ed).

.....

from: Brooke Clarke (brooke@pacific.net)
subject: MSK modulated Coast Guard DGPS beacons (285-325 kHz)

I am working with the Global Positioning System (GPS) and would like to demodulate the Minimum Shift Keying (MSK) signals on the US Coast Guard stations in the 285-325 kHz range. These are Differential GPS correction signals that improve the accuracy of the GPS position fix by about 20 times.
I know the formats and how to apply them but am having trouble converting the audio MSK tone shift into usable digital data. I want to do this as optimally as possible since at my location the signals are extremely weak. i.e. I do not want to use an FSK type decoder. I have found a company that makes MSK chips but none of them goes SLOW enough. The beacons use 50, 100 or 200 BAUD MSK. Does anyone have any information on demodulating the MSK signals?

Thanks, Brooke -N6GCE

Anyone tried this before and can offer help? (Ed).

.....

From: Barry Stone <g6sre@kentnet.co.uk>
Subject: Computer noise

I wonder if anyone can come up with any ideas to help me cure my interference problems. I have tried every thing I can think of with only very limited success. So far I have: fitted toroids to all leads, made sure the computer case (metal) is well earthed moved the Ae (150ft longwire) as far away as possible, fitted a longwire balun. I even wrapped the whole computer in aluminum foil, the noise level is the same whether the radio is connected to the computer or not. I have only had problems since I changed my old 286 for a Pentium 75. Things are so bad I can only hear the very strongest stations on the HF150 and slightly more on the Racal which I think is down to the better filters in the RA17. I hope somebody can help. Thanks for listening, Barry G6SRE

HELP NEEDED HERE FOLKS, What can we do to help Barry? (Ed)

.....

And with that it brings us to the end of another program, let's have your replies/questions and hopefully someone will provide all the answers..... Till next time,
Colin.

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DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Digital Round-up

o WUN's Sound Page is now in place. The first recordings of digital

stations are waiting for you. They are all in .WAV format. Let us know what you think of the sound page please.

During the past year we covered the Guardia Civil and other southern European stations. Here is an update:

o Guardia Civil: (Sitor-A, some Sitor-B occasionally)
2216.5 Toledo, 2228.5 Almeria, 2240.5 Navarra, 2246.5 Guipuzcoa, 2490.5 Madrid, 2749.5 Orense, 2750.5 La Coruna, 3588.5 Ochagavia, 3219.5 Barcelona, 3218 Barcelona, 3267.5 Cadiz (previous freqs all night freqs), 4562.5 Barcelona, 4563.5 Madrid, 4570.5 unid loc, 4595.5 Gijon, 4752.5 Cadiz, 5008.5 Andalucia, 5010.9 Ciudad Real, 5287.5 Valencia, 5320.5 Guipuzcoa, 5353.5 Barcelona, 5380.5 La Rioja, 5860.5 Vitoria, 5869.2 Lugo, 5869.5 Leon, 5872.5 Andalucia, 6933.5 La Coruna, 6991.5 Lerida, 10174.5 Barcelona

o Spanish army: (Sitor-A, Baudot 50bd, some Sitor-A 100r)
2236.5 MOD Madrid, 4853.7 San Sebastian, 5389.3 Loyola, 5776.6 Murcia, 5785.3 Andalucia, 10435.2 Vitoria

o Spanish air force: (Sitor-A duplex)
5851.7 Andalucia, 5216.7 Andalucia

o Portugese State police: (Sitor-A chatter, traffic in Sitor-B):
3282.2 continent-nights, 5049.2 continent-days, 9981.5 Azores-days, 9983.2 Azores-days

o North Africans: MINURSO (UN Morocco): 5005.3 nights (Sitor-A), 8186.3 (pactor) evenings, 8186.7 evenings, 9120.75 and 9120.85 primary days. Tunisian National Guard: 5796 ITA2-50, and 5731 FEC-A/96.

o Rick Baker copied the following Globe Wireless announcement of new freqs:
WNU SITOR 401
CQ DE KFS/WNU/VCT/KEJ/SAB/ZLA
HELLO ALL STATIONS.
THIS IS THE GLOBE WIRELESS NETWORK - SELCAL 1094
NEW ZLA FREQ - ITU CH. 1602 - 16807.5/16684 KHZ
NEW KEJ FREQ - GW CH. '501' - 4300.4/4154.5 KHZ
BY SPECIAL ARRANGEMENT WITH GLOBE WIRELESS, FREE AMVER
IS AVAILABLE IN THE FAR EAST VIA VRX/9MG/A9M/9VG
KFS/WNU/VCT/KEJ/SAB/ZLA ITU CHANNELS:
401 402 403 416 418 501 602 603 625 626 627 632 802 803 819
830 837 838 1202 1203 1219 1257 1263 1265 1291 1347 1602 1647
1657 1673 1676 1691 2203
FOR A FREE STATION BROCHURE, SEND SVC+
TO ANY GLOBE WIRELESS STATION
CALL ANY GLOBE WIRELESS STATION TO RECEIVE YOUR TFC.

o Royal Navy: c/s 'MTO' seems to be replaced by 'MGJ' now. 'MGJ' is the c/s of the Submarine base Faslane in Scotland, N.W. of Glasgow. Although the Rosyth site was MTO's original c/s, the actual messages were remotely keyed from London to the transmitter site in Rosyth. It is not clear whether the extended services of 'MGJ' all originate from the Faslane site. It is also possible that Rosyth still transmits the lot of the messages but simply uses 'MGJ' nowadays instead of 'MTO'

o Day Watson reports that British Telecom, who runs the UK coast stations, has dropped the following channels for telex:

Cullercoats	GCC1	1615
Wick	GKR2	1923.7
Landsend	GLD3	2696.7
Niton	GNI1	3517

o Leif Dehio noticed that, after a long period of absence, Moscow is back on 18490 kHz transmitting in CIS-11 with a shift of 500 Hz. It seems that either the satellite is out of order, or they have realized that shortwave is a lot cheaper.
Traffic consists of telegrams from Russia to Antarctica and synoptic

weather reports, using 3rd shift cyrillic alphabet.
Please note that although many publications list 18490 as being RUZU, it is in fact the link from Russia to Molodezhnaya.

o Mohammad Sultan writes from Port Louis, Mauritius that he heard the French Navy at le Port, Reunion (FUX) on 8476 kHz. The station is on the air 24 hrs a day with 75bd RTTY.
Good to see that we have folks from Mauritius on WUN as well. We're becoming more and more global :-)

o David Gentile copied another new Turkish military station.
Freq: 6395, mode: RTTY, BD/SH: 75/850, Nato Desig: RTQQDBCY
Location: Turkey, User: Strategic Turkish Army (Team/Task force level).
<although the route indicator suggest that it is the army, it is in fact the navy in Ankara, Dave - Ary>

Unid military station

Bob Margolis copied an unid military station on 16172.2 kHz in Baudot 75/150 and Sitor-B. I have no idea who this may be, Bob.

The transmissions in Sitor-B were interspaced with RY's in Baudot. The majority of the Sitor-B transmissions consisted of 4-digit groups who all started with '3333'. There was no digit '5' in the messages. Any ideas everyone ??? Here a few samples:

PGNY PGNY DE WNSN QTC 1 BT BT BT XXX XXX XXX XXX XXX
VESPER 3 VESPER 3 VESPER 3 THUNDER THUNDER
3333 8902 1747 0213 6487 9321 6487 1364 9807 2139 4807 2130 9846
2109 7498 0321 7409 8213 7409 8321 7498 0213 7490 8213 7490 2187
4098 2137 4902 3174 0982 1374 9087 2140 9827 3149 0821 3749 0827
1490 7349 8073 2180 4721 9047 1092 7498 0213 7498 0174 BT BT XXX

ARTM ARTM ARTM DE WNSX WNSX QTC 1 BT THUNDER THUNDER THUNDER
VOODOO VOODOO VOODOO XXX XXX XXX XXX THUNDER THUNDER THUNDER
WNSX WNSX WNSX DE GFSB GFSB RGR RGR RGR VOODOO VOODOO THUNDER

WNSN WNSN DE GFSB BT QTC 104 19 0915 012 104 BT
TANTRUM 1030 MMMM TYEJ FHGD BVKF GEUI YGHG NZMC VBGH HDJS SLAP
OWIE RYYT GBNV CVFE DFVD MMMM TANTRUM BT BT BT (repteated 5x)

GFSB DE SFHO RGR QSL MSG NR 107 BT
AREA IS CLEAR FOR MISSILE XXX
RPT AREA IS CLEAR FOR MISSILE XXX
TARGET BARGE IS IN PLACE KKK
RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRY
SFHO DE GFSB RGR 4444 RPT 4444 RPT 4444 RPT 4444 RPT 4444 KKK
RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRY
AECS AECS AECS DE GFSB GFSB QTC 1 AS 1 K

Red Cross stations

Dirk van der Wal reports his ICRC pactor catches. The callsigns are easy to recognise and consist of 6 characters. Prefix 'RC' means Red Cross. This is followed by the digit '2' and three letters who usually represent the first three letter of the name of the location.
Dirk heard the following stations:

RC2BAL	ICRC Banja Luka	RC2JAJ	ICRC Jajce
RC2BDU	ICRC Bosanska Dubica	RC2KLJ	ICRC Kljuc
RC2BEL	ICRC Belgrado	RC2KNI	ICRC Knin
RC2BIH	ICRC Bihac	RC2MAG	ICRC Maglai
RC2BIJ	ICRC Bijeljina	RC2MBO	ICRC Zagreb (Maribor ??)
RC2BRK	ICRC Brcko	RC2MOS	ICRC Mostar
RC2DAL	ICRC Dalj	RC2OKU	ICRC Okucani
RC2DOB	ICRC Doboj	RC2OSI	ICRC Osijek
RC2DUT	ICRC Dutovlje	RC2PAL	ICRC Pale
RC2GOR	ICRC Goradze	RC2PET	ICRC Petrinja

RC2POZ	ICRC Pozega	RC2PRD	ICRC Prijedor
RC2SAR	ICRC Sarajevo	RC2SPL	ICRC Split
RC2TUZ	ICRC Tuzla	RC2VOJ	ICRC Vojnic
RC2ZAG	ICRC Zagreb	RC2ZEN	ICRC Zenica

Frequencies:
PACTOR-I: 3801.6, 3803.6, 5144, 5149, 5154, 5159, 5164, 5169, 10283,
13963.3, 13966.5, 13974.2, 13998, 14373.5, 18066.5, 20754.4 kHz.
SITOR-A : 3801.5, 5144, 5154, 6995.5, 6998.5, 6999.5, 13966.5, 13998 kHz.
SSB : 6996, 6998.5, 13965 kHz.

<source: Dirk v.d. Wal, DX-Antwerp>

Diplo corner

The following item comes from the hand of Day Watson and covers the Pakistani diplo stations.

o Stations
There are two MFA locations in Pakistan, one in Islamabad and one in Karachi.

callsign	selcal	location	callsign	selcal	location
ASN 69	FMCA	Stockholm	ASP 32	KMEU	MFA Islamabad
	KQEK	Brunei		KUQS	Accra
	MBKC	Ankara	ONN 35	MMRQ	Brussels
ASE 63	MRZK	Paris		OBSU	Jeddah
	OXFF	Jeddah?	AST 51	OYDK	Teheran (or AST61?)
ASZ 57	PKIY	Rome		PMUF	Damascus
	PQPR	Seoul		QAFX	Niamey
	QYDK	Belgrade		QZKY	Algiers
	TASC	Tripoli		UKCK	Paris?
	VPSB	Maputo		YMRF	Baghdad
	OXSZ	Unid	ASK 16		Kuwait
ASK 21		MFA Karachi	ASM 41		Moscow
ASP 23		Dhaka	ASS 6		Ankara
B 18		Manama			

o Transmission modes used:

TWINPLEX	100bd	N	F7B-1	-300/-100/+100/+300 [S5/200Hz]
				-200/-85/+85/+600 [S3/140Hz])
Sitor-A	100bd	N	170	
Sitor-B	100bd	SBRS		
ITA2	50bd			
USB				

o Logged frequencies:
14990.7 16386.7 18061.7 18071.7 19031.7 20011.7 20017.0 20976.7
22006.7 23021.7

o Reported frequencies:
9107.0 10231.7 10891.7 12152.7 13274.0 13421.7 14386.5 14407.5
14466.7 14479.0 14481.7 14697.0 16381.5 16391.7 17268.7 17421.7
18011.7 18021.7 18051.7 18091.0 18287.5 18577.0 18597.7 18977.0
19001.0 19003.3 19021.7 19051.7 19108.9 19231.0 19806.8 20051.7
20099.0 20110.7 20901.0 21006.7 21066.7 21306.7 21366.7 21853.0
21862.9 21864.0 21894.0 22008.7 22016.7 23011.5 23602.7 24006.7
26412.0

o Notes on operation:
[SAT][SUN]
Language: English
Offline/online encryption

The original tone displacement (-200/-85/85/600) appeared to have been replaced by a later displacement (-300/-100/100/300). However recent loggings show the original arrangement on 16386.7/19031.7 khz and the

later arrangement on 14990.7. So far no mixture of arrangements seen on any given frequency.

o Dictionary:

dto	date of origin
Foreign Islamabad	MFA Islamabad
Foreign Karachi	MFA Karachi
faibd	MFA Islamabad (abbrev?)
PAREP ...	Pakistan Emb ... (Pakistan Representative)

o Sample message format:

Example - Off line encrypted message

```
pppp
from   parep rabat                          (fm Rabat Embassy)
to     foreign islamabad                    (to MFA Islamabad
dto    november 20, 1992 ( 1845 hrs)        (date of origin)
most immediate                              (priority)
foxtrot  alpha  a#++alpha  delta  sierra    (encryption key)

wtamf wjdrn irmdg wmyzf kvedr zqpus wuanw xcydw ufomk lcabi
gsacw oywjm dwvpo jlcct wgfjm j~~z gvuhf vhmrt prfbv lrnct
ulpfd fhknn xruul qmnab teddr ogkri uqri~m~crbf~jmhiz pzibw
zopnw oaeza neykp lcxpw pzqaz spycz hzgzr fwyzi aerxg vuieg
htxfa hxcqb pnvpl adflh mtlfm lvrve hqrkp jyxkr nmmdo embjs
mxzcz xyuau yxukf tguqs wjpby qibwn jingt uiqqs ykqbu oiixz
ktjdh param geysy cfwkp eprif lklsd zydfc tbfhd skjkp lpqwp
swsyb mhmqx zxokh rsndp ncgdn~ia~va rpkyp zkcqb eteur sxvws
yjjbd eepv~pvg lrvbq soqkf cmypo cwtlh vdrnl nhlnx wkifr eqxdi
fjdbg gzxxe usahz plbhr fdune qccdk vnkgw uavku wgdas ecbrq
vgtyu oqdug yxitd xdmhh tpmeq ldeew ffqsj bjzoi xtlhk sbjse
zcbfe peugy yovad eaaoh dksjx cvlhb cbzab bbgva hlrcn ydqps
fdxjp zflth wqqhv vwngl olisi kdlek nxywz ddade fosgn njfen
dqlnx vdnlc gqbid ciqby cpqhu gkpmj ssafo dyfjz kdrbl jfzef
fusbw etlve doolq gzobx psxkd xcpfl tvgch lejzy ehwgw rcydh
ldico xsbuv axhcn ubpui sqwwy pzybp isjcq ksjhn xfyms yoiae
tlgwu uosdo
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That's all for now. 'till next time -Ary-

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The WUN Military Column

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Memphis, Tn 38173-0888, USA

May 18th in the United States is Armed Forces Day. In celebration of Armed Forces Day special cross-band communications are done with the amateur radio community, and SWL's. Fabrizio Magrone posted information he received over amateur packet:

```
ADMINISTRATIVE MESSAGE
ROUTINE
R 161625Z APR 96 ZYB PSN 166545M27
FM COMNAVCOMTELCOM WASHINGTON DC//N3/00//
TO ALCOM
UNCLAS //N02093//
ALCOM 025/96
MSGID/GENADMIN/COMNAVCOMTELCOM//
SUBJ/47TH ANNIVERSARY OF THE ANNUAL ARMED FORCES DAY COMMUNICATION
/CELEBRATION//
REF/A/DOC/DOD/960117/-/NOTAL//
AMPN/DOD DIRECTIVE 4650.2 OF 17 JAN 86//
RMKS/
1. 47TH ANNUAL ARMED FORCES DAY COMMUNICATION CELEBRATION IS SCHEDULED FOR
   SATURDAY, 18 MAY 1996.
```

2. ARMY, NAVY, MARINE CORPS AND AIR FORCE ARE CO-SPONSORING AN AMATEUR RADIO PROGRAM IN CELEBRATION OF ARMED FORCES DAY PER REF A, FEATURING TRADITIONAL MILITARY-TO-AMATEUR CROSS-BAND COMMUNICATIONS TEST AND MESSAGE-RECEIVING TEST. THE TESTS GIVE AMATEUR RADIO OPERATORS AND SHORT WAVE LISTENERS AN OPPORTUNITY TO DEMONSTRATE THEIR INDIVIDUAL TECHNICAL SKILLS AND TO RECEIVE RECOGNITION FROM A SERVICE MARS CHIEF OR APPROPRIATE MILITARY RADIO STATION FOR THEIR PROVEN EXPERTISE.
   A. PROCEEDINGS WILL INCLUDE OPERATIONS IN CONTINUOUS WAVE (CW), SINGLE SIDEBAND VOICE (SSB) AND DIGITAL MODES (RTTY, PACKET, AND AMTOR).
   B. PARTICIPATING MILITARY RADIO STATIONS WILL AWARD COMMEMORATIVE ACKNOWLEDGEMENT (QSL) CARDS TO AMATEUR RADIO OPERATORS ACHIEVING A VERIFIED TWO-WAY RADIO CONTACT. SPECIAL COMMEMORATIVE CERTIFICATES WILL BE AWARDED TO ANYONE WHO RECEIVES AND ACCURATELY COPIES ARMED FORCES DAY CW AND/OR DIGITAL MESSAGE FROM THE SECDEF. CHIEF, ARMY MARS PROVIDES SECDEF ARMED FORCES DAY MESSAGE TEXT TO THE THREE SERVICE MARS ORGANIZATIONS.
3. MILITARY-TO-AMATEUR CROSS BAND TEST. MILITARY-TO-AMATEUR CROSS BAND OPERATIONS WILL TAKE PLACE FROM 18/1300Z UNIVERSAL TIME (UTC) TO 19/1300Z UTC MAY 1996. MILITARY STATIONS WILL TRANSMIT ON SELECTED MILITARY FREQUENCIES AND LISTEN FOR AMATEUR RADIO STATIONS IN AMATEUR BANDS INDICATED BELOW. FREQUENCIES ASSIGNED BELOW ARE THE "ASSIGNED FREQUENCY." TO DERIVE "WINDOW FREQUENCY" DROP 1.5KHZ FROM "ASSIGNED FREQUENCY" FOR UPPER SIDE BAND (USB).
   EX: 4005.0 KHZ (ASSIGNED FREQUENCY) - 1.5 KHZ
       4003.5 KHZ (WINDOW/DIAL FREQUENCY)
   MILITARY OPERATOR WILL ANNOUNCE THE SPECIFIC AMATEUR BAND FREQUENCY BEING MONITORED. DURATION OF EACH CONTACT SHOULD BE LIMITED TO 3 MINUTES.

STATION	MILITARY EMISSION	AMATEUR BAND FREQUENCY
AAE	4030.5 KHZ LSB	80 METERS
ARMY HF/MARS RADIO STATION	7358.5 KHZ RTTY/LSB	40 METERS
FORT SAM HOUSTON, TX	13994.5 KHZ USB	20 METERS
78234-5000	20941.5 KHZ CW	15 METERS
	27992.5 KHZ USB	10 METERS
POC: MR. LEONRITTER		
AAH	4021.5 KHZ VARIOUS	75 METERS
ARMY HF/MARS RADIO STATION	6988.0 KHZ (N) VARIOUS	40 METERS
FORT LEWIS, WA 98433-5000	7312.5 KHZ (D) VARIOUS	40 METERS
	10151.5 KHZ CW	30 METERS
	14488.5 KHZ USB	20 METERS
	18212.5 KHZ USB	17 METERS
	20975.0 KHZ USB	15 METERS
POC: MR. CHUCK VERDON		
AAZ	4036.6 KHZ LSB	80 METERS
HQ USAISC	6910.0 KHZ CW	40 METERS
COMMAND HF/MARS RADIO	7422.5 KHZ LSB	40 METERS
STATION ATTN: ASOP-HF	13965.0 KHZ USB	20 METERS
FORT HUACHUCA, AZ	21825.5 KHZ CW	15 METERS
85613-5000	27790.0 KHZ USB	10 METERS
POC: MR. BATEMAN		
AIR	4025.0 KHZ LSB	80 METERS
89TH COMMUNICATIONS GROUP	6896.0 KHZ CW	40 METERS
ANDREWS AIR FORCE BASE	7315.0 KHZ LSB	40 METERS
WASHINGTON, DC 20331	13986.5 KHZ RTTY	20 METERS
	13997.5 KHZ CW	20 METERS
	14408.0 KHZ USB	20 METERS
POC: SSGT JOSEPH		
WAR	4018.5 KHZ LSB	80 METERS
ARMY HF/MARS RADIO STATION	6997.5 KHZ CW	40 METERS
FORT DETRICK, MD 21702-5016	7361.5 KHZ VARIOUS	40 METERS
	13992.5 KHZ RTTY/CW	20 METERS
	14403.5 KHZ USB	20 METERS
	20995.5 KHZ USB	15 METERS
POC: MR. VARGAS		

NAV	4040.0 KHZ	RTTY/CW/USB	80 METERS
HQ NAVY-MARINE CORPS MARS	7365.0 KHZ	RTTY/CW/USB	40 METERS
NAVCOMMDET CHELTENHAM	10259.5 KHZ	RTTY/CW	30 METERS
9190 COMMO RD, BLDG 13	14393.0 KHZ	USB/CW	20 METERS
WASHINGTON, DC 20397-5161	20625.0 KHZ	USB/CW	15 METERS
POC: SSGT CARPENTER			
NBL	4011.0 KHZ	RTTY/CW/USB	80 METERS
MARS RADIO STATION	7385.0 KHZ	RTTY/CW/USB	40 METERS
NAVAL SUB BASE	14385.0 KHZ	RTTY/CW/USB	20 METERS
NEW LONDON BOX 200	20375.0 KHZ	RTTY/CW/USB	15 METERS
GROTON, CT 06340			
POC: RMC(SW) DONLEY			
NMN	6970.0 KHZ	RTTY/CW/USB	40 METERS
COMMANDING OFFICER	14468.5 KHZ	RTTY/CW/USB	20 METERS
U.S. COAST GUARD	24783.5 KHZ	RTTY/CW/USB	11 METERS
CAMSLANT-NMN			
NAVSECGRUACT N.W.			
CHESAPEAKE, VA 23322			
POC: TC3 SMITH			
MCL	7375.0 KHZ	RTTY/CW/USB	40 METERS
MARS RADIO STATION	14480.0 KHZ	RTTY/CW/USB	20 METERS
BASE CEO BLDG24	24805.0 KHZ	RTTY/CW/USB	12 METERS
MARINE CORPS BASE			
CAMP LEJEUNE, NC 28542			
POC: SSGT JOHNSON			
MPN	4008.5 KHZ	RTTY/CW/USB	80 METERS
MARS RADIO STATION	7382.5 KHZ	RTTY/CW/USB	40 METERS
MARINE CORPS BASE	14465.0 KHZ	RTTY/CW/USB	20 METERS
BLDG 2699	20937.5 KHZ	RTTY/CW/USB	15 METERS
CAMP PENDLETON, CA 92055-5001			
POC: SGT BARTA			
NAV-2	4015.2 KHZ	RTTY/CW/USB	80 METERS
MARS RADIO STATION	7372.5 KHZ	RTTY/CW/USB	40 METERS
1050 REMOUNT RD	14471.5 KHZ	RTTY/CW/USB	20 METERS
BLDG 3231	20680.0 KHZ	RTTY/CW/USB	15 METERS
NORTH CHARLESTON, SC 29406			
POC: RMC COLBOW			
MCP	4826.5 KHZ	RTTY/CW/USB	80 METERS
MARS RADIO STATION	7380.0 KHZ	RTTY/CW/USB	40 METERS
MCAS CEO STOP 34A	13530.0 KHZ	RTTY/CW/USB	20 METERS
CHERRY POINT, NC 28533	19956.5 KHZ	RTTY/CW/USB	15 METERS
POC: SGT GARLAND			
MQU	4040.0 KHZ	RTTY/CW/USB	80 METERS
MARS RADIO STATION	7346.5 KHZ	RTTY/CW/USB	40 METERS
D.C.I.D. - MCCDC	14840.0 KHZ	RTTY/CW/USB	20 METERS
QUANTICO, VA 22134	20988.5 KHZ	RTTY/CW/USB	15 METERS
POC: SSGT HARRISON			

4. CW TRANSMITTING. CW RECEIVING TEST WILL BE CONDUCTED AT 25 WORDS PER MINUTE. BROADCAST WILL BE SPECIAL ARMED FORCES DAY SECDEF MESSAGE TO ANY AMATEUR RADIO OPERATOR OR SHORT WAVE LISTENER DESIRING TO PARTICIPATE. 10-MINUTE CALL FOR TUNING PURPOSES WILL BEGIN AT 18/0230Z UTC MAY 1996. SECDEF MESSAGE WILL BE TRANSMITTED AT 19/0240Z UTC MAY 1996 FROM FOLLOWING STATIONS ON LISTED FREQUENCIES:

TRANSMITTING STATION	FREQUENCY (KHZ)
AAE	20941.5
ARMY HF/MARS RADIO STATION	
FORT SAM HOUSTON, TX	

AAH 6988.0, 10151.5
ARMY HF/MARS RADIO STATION
FORT LEWIS, WA

AAZ 6908.0, 21825.5
HQ USAISC
COMMAND HF/MARS RADIO STATION
FORT HUACHUCA, AZ

AIR 6896.0, 13997.5
89TH COMMUNICATIONS GROUP
ANDREWS AIR FORCE BASE
WASHINGTON, DC

WAR 6997.5, 13992.5
HQ ARMY MARS RADIO STATION
FORT DETRICK, MD

NAV 10259.5, 20625.0
HQ NAVY-MARINE CORPS MARS
RADIO STATION
CHELTENHAM, MD

NBL 14385.0, 20375.0
MARS RADIO STATION
GROTON, CT

NMN 14468.5
COAST GUARD COMMUNICATION
AREA MASTER STATION
CHESAPEAKE, VA

MCL 14480.0
MARS RADIO STATION
CAMP LEJEUNE, NC

MPN 7382.5, 14465.0
MARS RADIO STATION
CAMP PENDLETON, CA

NAV-2 7372.5, 20680.0
MARS RADIO STATION
NORTH CHARLESTON, SC

MCP 7380.0, 19956.5
MARS RADIO STATION
CHERRY POINT, NC

MQU 7346.0, 20988.5
MARS RADIO STATION
QUANTICO, VA

5. DIGITAL MODES TRANSMITTING TESTS. DIGITAL MODES BROADCASTS WILL BE AT 0340Z (RTTY, 100WPM, NARROW SHIFT); 0440Z (PACKET); AND 0540Z (AMTOR). A 10-MINUTE CALL FOR TUNING PURPOSES WILL BEGIN AT 19/0330Z FOR RTTY, 19/0430Z FOR PACKET AND 19/0530Z FOR AMTOR.
SECDEF MESSAGE WILL BE TRANSMITTED FROM THE FOLLOWING STATIONS ON THE LISTED FREQUENCIES: (NOTE: NOT ALL STATIONS MAY NECESSARILY OPERATE ALL LISTED FREQUENCIES, DEPENDING ON PROPAGATION AND EQUIPMENT.)

TRANSMITTING STATION FREQUENCY (KHZ)

AAE 7358.5
ARMY HF/MARS RADIO STATION
FORT SAM HOUSTON, TX

AAH 6988.0, 14488.5
ARMY HF/MARS RADIO STATION

FORT LEWIS, WA

AAZ 7422.5
HQ USAISC
COMMAND HF/MARS RADIO STATION
FORT HUACHUCA, AZ

AIR 13986.5
89TH COMMUNICATIONS GROUP
ANDREWS AIR FORCE BASE
WASHINGTON, DC

WAR 13992.5
HQ HF/MARS RADIO STATION
FORT DETRICK, MD

NAV 10259.5
HQ NAVY-MARINE CORPS MARS
RADIO STATION
CHELTENHAM, MD

NBL 7385.0, 14385.0
MARS RADIO STATION
GROTON, CT

NMN 14468.5
NAVSECGRUACT N.W.
CHESAPEAKE, VA

MCL 7375.0, 14480.0
MARINE CORPS BASE
CAMP LEJEUNE, NC

MPN 14465.0
MARINE CORPS BASE
CAMP PENDLETON, CA

NAV-2 7372.5, 14443.0
MARS RADIO STATION
NORTH CHARLESTON, SC

MCP 7380.0, 13530.0
MARS RADIO STATION
CHERRY POINT, NC

MQU 7346.5, 14840.0
MARS RADIO STATION
QUANTICO, VA

6. SUBMISSION OF TEST ENTRIES. TRANSCRIPTIONS OF THE CW AND/OR RTTY RECEIVING TEST SHOULD BE SUBMITTED "AS RECEIVED." NO ATTEMPT SHOULD BE MADE TO CORRECT POSSIBLE TRANSMISSION ERRORS. TIME, FREQUENCY AND CALL SIGN OF MILITARY STATION COPIED AS WELL AS NAME, CALL SIGN AND ADDRESS (INCLUDING ZIP CODE) OF INDIVIDUAL SUBMITTING ENTRY MUST BE INDICATED ON PAGE CONTAINING TEST MESSAGE. EACH YEAR A LARGE NUMBER OF ACCEPTABLE ENTRIES ARE RECEIVED WITH INSUFFICIENT INFORMATION, OR NECESSARY INFORMATION WAS ATTACHED TO TRANSCRIPTIONS AND WAS SEPARATED, THEREBY PRECLUDING ISSUANCE OF A CERTIFICATE. ENTRIES MUST BE POSTMARKED NO LATER THAN 31 MAY 1996; SUBMIT TO RESPECTIVE MILITARY COMMANDS AS FOLLOWS:

A. STATIONS COPYING AIR SEND ENTRIES TO:
ARMED FORCES DAY CELEBRATION
89CG SCOJM ALABAMA AVE STE 3
ANDREWS AFB
WASHINGTON DC 20331-6345

B. STATIONS COPYING NAV, NBL, NMN, MCL, MPN, ASC, MCP, AND MQU SEND ENTRIES TO:
ARMED FORCES DAY CELEBRATION

HQ NAVY MARINE CORPS MARS
NAVCOMM DET CHELTENHAM
9190 COMMO ROAD BLDG 13
WASHINGTON DC 20397-5161

C. STATIONS COPYING AAE, AAH, AAZ, OR WAR SEND ENTRIES TO:
ARMED FORCES DAY CELEBRATION
DEPARTMENT OF THE ARMY
U S ARMY INFORMATION SYSTEMS COMMAND
ATTN ASOP DF-HF
FORT HUACHUCA AZ 85613-5000

7. OTHER AMATEUR ACTIVITY. IN ADDITION TO PROGRAM OUTLINED ABOVE AMATEUR RADIO STATIONS AT NAVY AND MARINE CORPS ACTIVITIES SHOULD ENGAGE IN CONTACTS WITH OTHER AMATEUR RADIO STATIONS ON ARMED FORCES DAY AND HANDLE BONAFIDE TRAFFIC, ALTHOUGH THEY SHOULD AVOID ARTIFICIAL GENERATION OF MESSAGES SUCH AS "GREETINGS ON ARMED FORCES DAY. "

8. ACTION. ALL COMMANDS SHOULD DISTRIBUTE THE INFORMATION CONTAINED IN THIS NOTICE TO ALL QUALIFIED AMATEUR RADIO OPERATORS AND RADIO STATIONS WITHIN THEIR JURISDICTION.//
BT

These stations are usually pretty good verifiers for SWL's too.

In other news:
Arospatial is appointed by the French government as main-contractor for further development of the Multiple Launch Rocket System (MLRS). The new developments will make the MLRS fit to use a more diverse type of ammunition. The currently used M26 rockets have a range of 30 to 40 Km and each rocket contains 644 M77 grenades which spread over an area of 2000 square meters. The new smart ammo will be more accurate an have a larger range.

The standard infantry rifle M16A2 is going to be replaced by a "Objective-Individual-Combat Weapon" (OICW).
Main-contractor for development of the new weapon is FNMI, an American sub-company of the Belgian Herstal-Corporation and AAI, a sub-company of United Industrial Corporation.
Details of the new OICW are not yet available but what known is that the weapon will have 2 barrels, one for conventional, kinetic ammunition and one for high-explosive fragmentation cartridges.

The French airforce has bought another 200 Eryx short range anti-tank missiles launchers including 3000 Aerospatiale missiles. This makes a total of 600 launchers and 7700 missiles. Also Canada (1600 extra missiles) and Norway use this system with an effective range of 600 meters. Canada and Norway have 400 Eryx-launchers each. Some other customers have shown interest, amongst them is Brazil. Last year the production of the Maribel-camera has started that will give the launcher day an night vision.

The RAH-66 Comanche, a light reconnaissance and attack helicopter that will replace the AH-1, OH-6 and OH58 (3000 helicopters) has made its first flight. Because of the use of new technology the RAH-66 appeared 6 months later than previous planned.
The RAH-66 is the first Army-helicopter using a fly-by-wire-system and is equipped with a fantail and has to supplement the Apache-helicopter. The Comanche has a retractable landing-gear, 6 ordonnance points for missiles and a 3-barrel gattling gun. It will take at least until 1998 for the 2th prototype will appear.

By the scrapping of the last battle-cruisers, the Iowa-sisters the US NAVY will loose a lot of fire-power needed for landing operations.
For the time being this is compensated by modifying the 125mm (5 Inch) MK-45 cannon. The standard range of 24 Km will be extended, using guided ammunition, up to 116 Km (!) maximum.
The first prototypes, build by United Defence, will begin testing in 1998. From the year 2000 all new DDG-51 class boats will be equipped with this

"new" gun. The standard MK-45 is also used by the NAVY's of : Australia, New-Zealand, Greece, Turkey and Thailand.

Vosper Thornycroft has developed a new landing craft for the British MOD the MK-5 landing craft, vehicle and personnel (LCVP). The craft can carry up to 2 tons of equipment and 35 soldiers. 2 Volvo diesel-engines drive the waterjets that give the LCVP the ability to manoeuvre in shallow water and give it a speed of 16 Kts. The craft is now being tested in extreme conditions. If the LCVP meets the requirements made by the British MOD, 4 more of this type will be ordered for the new "landing platform heli-copter craft" the HMS Ocean.

Navy oceanographers now study oceans closer to shore
Courtesy of the Office of the Oceanographer of the Navy

WASHINGTON (NNS) -- In the fictional novel and movie "The Hunt for Red October," the search for the Soviet warhead-packed submarine require information provided by Navyoceanographic ships.

For the last 50 years, Navy oceanographers have filled huge databases with information -- bottom bathymetry, deep ocean current patterns, biology tows, temperature and salinity profiles -- to find submarines in the world's vast deep oceans.

These days, the fresh salt air Navy oceanographers breath is a little closer to shore because Navy oceanographic ships are changing course and turning toward land. Increasingly mindful that the likely focus of naval operations are now unpredictable adversaries operating in shallow waters near shorelines and not in the world's deep waters, Chief of Naval Operations ADM Mike Boorda signed a new policy directing Navy oceanographers to start looking more closely at the complex marine science of near-shore areas. This is the first such revision in naval oceanography policy in 10 years.

There is a renewed concentration on the complicated problems that make up the science of the littoral, or near-shore areas: tidal pulses, beach profiles, reefs, bars, shallows, shoals, channels, sediment transport, fine-scale hydrography, turbidity, land cover and terrain, dust, traffic, rain rates, river run-off, sub-bottom terrain and the complex weather patterns of coastal areas.

Navy oceanographers are shifting from thinking in scales of hundreds of miles and days, to scales of tens of meters and minutes.
Navy oceanographers and meteorologists must now be able to collect data in limited access areas --both remotely and on-the-fly. They must then be able to deliver information to the user in the field almost immediately. This occurred during the Gulf War, when oil spills, smoke from Iraqi fires and drifting mines in the water were a constant threat. Using oceanography supercomputers half-a-world away to calculate local winds and currents, mines were quickly located and destroyed and oil slicks and smoke avoided.

"The era ushered in by the end of the Cold War requires a new focus," commented ADM Boorda in his recent testimony before Congress. "The high-tech systems we use in the Navy today require sophisticated and timely environmental information or they simply won't work. We need oceanographic information to support 'go' or 'no-go' decisions ... for the precise use of weapons, so that those weapons go where we want them to go, hit the target and do not cause collateral damage."

The CNO's new policy for naval oceanography also directs that a Navy oceanographic fleet of no less than eight ships will be maintained. "Eight is the bottom line," he stated definitively, "to do the work needed to be done."

Naval oceanography supercomputing capabilities will be maintained to process more than 2 million meteorological and oceanographic observations received each day. One or more natural laboratories will be established in ocean areas to test new ideas and technologies.

Boorda also told Congress that he would not succumb to the temptation to "salami slice" ocean research funding. He will re-establish Navy-funded research chairs at appropriate universities. He would make partnerships with industry and academics a priority.

"Not to talk about increasing them, but to increase them," he said. Non-Navy researchers are now getting unprecedented access to Navy databases and resources.

One example is the use of Navy's underwater surveillance system for tracking whales. More information on the movements of marine animals was

gained in this one experiment than all the previous data collected in history. Another example is the convergence of military and civilian environmental satellites, allowing both to share the data in an efficient way.

USS Nimitz relieves the watch in East China Sea
by JOC Lance Johnson, Nimitz Public Affairs

ABOARD USS NIMITZ IN THE EAST CHINA SEA (NNS) -- Some 600 miles east of Taiwan, the men and women of USS Nimitz (CVN 68) have just begun their fifth week at sea without a port of call. This comes after two months in the Arabian Gulf for Operation Southern Watch, where pilots flew some 100 sorties a day, enforcing the 'no-fly' zone over Southern Iraq. For these Sailors and Marines, keeping the watch in an unstable region is business as usual.

"We keep launching, recovering and servicing jets, just like normal," said Aviation Electronics Technician Third Class Justin A. Rondach of Lompoc, Calif., assigned to Fighter Squadron 211. "The only difference is it was hotter during the day in the gulf."

In response to elevating tensions between China and Taiwan, the Nimitz battle group, with embarked Carrier Air Wing Nine and six other ships, received orders to sail from the Arabian Gulf one month early and report to the region, relieving the USS Independence (CV 62) battle group of the watch.

"I'm glad no military force or 'punch' was needed to decide the outcome," said Aviation Ordnanceman Third Class Thomas K. Farley. The Ypsilanti, Mich., native explained, "That's what the Navy is for...to help protect the interests of the U.S. and to help those in need."

Farley is one of more than 5,000 Sailors aboard Nimitz who left in late November for a six-month deployment. Since departing its homeport of Bremerton, Wash., the nuclear-powered aircraft carrier has steamed over 35,000 miles and performed more than 7,500 aircraft recoveries or traps. All but nine of the last 130 days have been spent at sea.

"Working seven days a week, 13-plus hours a day is quite frustrating, but I guess it's a small price to pay to ensure freedom and democracy around the world," said Aviation Structural Mechanic Airman Matthew A. Cummings of Roseville, Calif., a plane captain for VF-211. "It makes me proud to think we had something to do with ensuring China and Taiwan stayed peaceful."

Other vessels operating with the Nimitz Battle Group, commanded by RADM Lyle B. Bien of Veblen, S.D., include USS Port Royal (CG 73), USS Oldendorf (DD 972), USS Callaghan (DDG 994), USS Ford (FFG 54), USS Shasta (AE 33), USS Willamette (AO 180), and USS Portsmouth (SSN 707).

Upcoming Exercises

Joseph Cirone tells us that "28MAY96 through 05JUN96 is the time period for Annual Hurricane Exercise "HURREX '96", sponsored by the USN, but many agencies play."

"Expect some HF and VHF/UHF activity, but mostly depends on units that are playing and what they want to do at their level. In years past, Bayonne Global and the MTMC has played it as "the real thing" would be played - so we had lots of HF & VHF activity (Voice & Data) but this year we are too busy on other projects to play at all."

Larry Van Horn, MT Ute World editor, checked in from his MT office to send a heads up on "Exercise Purple Star 96".

"The U.S. Atlantic Command is conducting a major joint exercise with British forces on military installations in the southeastern United States and waters along the eastern seaboard from the 25th of April to May 20th. More than 53,000 military service members from the United States and the United Kingdom will participate in Combined Joint Task Force Exercise `96 or Exercise PURPLE STAR."

"One of the areas that WUN members might want to explore in-depth are the new OR assignments for the USN. Some of these new Nav frequencies have been noted with activity and some have not. Hint-Hint: Exercises are usually the best time for normally quiet frequencies to become active."

"While the majority of this exercise will probably be conducted on secure satcom circuits, there will still probably be some HF activity and the new aero OR freqs listed below is a good starting point."

"Here is a list of the new aeronautical OR Navy channels. Have fun and remember to report your results to WUN (may RD's mailbox fill to the brim).

I should have more on this exercise later as I have a call in the PAO folks for some additional information. (All frequencies below are in kilohertz)

3035	3038	3047	3050	3080	3083	3086	3089	3092	3095	3098	3101	3104
3107	3125	3128	3131	3149	3152	4700	4703	4706	4709	4712	4715	4736
4739	5714	5717	5720	5723	5726	6688	6691	6694	6697	6700	6703	6706
6718	6721	6724	6745	6748	8971	8974	8995	8998	9001	9004	9007	9010
9028	9031	9034	9037	11184	11187	11190	11193	11205	11208	11211		
11253	11256	11259	11262	11265	11268	13224	13227	13230	13233	13236		
13239	13251	13254	13257	15019	15022	15025	15028	15049	15022	15055		
15058	15061	15064	15067	15070	15073	15076	15079	17970	17979	17982		
17985	18012	18015	18018									

Thanks for the heads up guys! This is probably related to the log posted by Don Stidwell and Rick Baker of the HMS Hecla (A-133), a Royal Navy Hydrographic Service ship, on 3394.0 USB just before press time.

All for this month, we'll see you all again here next month....

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New Products, Books, News and Reviews

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|Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column (not via the clubs D.C. address to save mail costs)|

A slight name change in the column this month to include "news" in the coverage. Besides, I like the ring of it, hi! "News" will be gatherings like Dx'peditions, conventions, or any news that really doesn't fit in with the other editors columns.

o Software Review: WXFAX Version 3.2 Copyright (c) 1996, Jan Nieuwenhuis, The Netherlands.

Last April we took a look at V2.3 of Jan's program and recently released this year is version 3.2 of WEFAX. WXFAX is a Weather Facsimile Database Program for radio-listening-amateurs, SWL's or weather fans. WXFAX contains information of all WEATHER Facsimile Stations around the world which are operational on Longwave and Shortwave.

Hardware Requirements:
Computer: IBM-compatible AT(tm) 286, 386, 486 or Pentium. I ran WEFAX in a DOS 386/20 IBM clone and a Pentium 90 under Windows95 without problems in either. the program comes on a 1.44MB (3.5") floppy and takes up about 655k when installed. It needs about 640k of memory and DOS 3.3 to 6.22 (or a DOS box in Win95) to run and a VGA monitor.

Installation
Simple...copy the files into a directory and run WEFAX. It can be run off the disk.

The Program
This version has a slightly different look to it with added information in several areas. The main menu has seven options:
Display List - Displays the data by frequency, by station, by callsign, or by country.
Print List - Several options here including a complete listing of all data, by location, by selected transmissions, or a weather map ID list.
Dump Data to a File - Designed to make it easy for those with computer control to generate a 'scanning' list. Nice!
Station Info - Shows the type of fax transmitted and their times of transmission with the station address at the bottom of the file. Confirms what you snagged and gives QSL hunters

an address while your at it.
Sample Weather Maps - The overall appearance of these samples are much improved. Samples of the commonly seen types of weather fax maps can be viewed.
General FAX Info - 'About Fax Transmissions' gives you technical information helpful in understanding what's going on.
'Software' describes the various software which can be used to decode WEFAX transmissions.
'Symbols Used' shows the various symbols we see on the WEFAX and tells you what they mean.
'Updates' gives last minute station information.
There is now a 'Dial-ip Wx-Fax Services' area with phone numbers worldwide for direct dial WEFAX locations.
Fax Database Stats - Interesting information about WEFAX transmissions.

Those who have seen earlier versions of Jan's program will note some new additions and that several menus were combined. The overall speed of the program seems faster for the pop-up screens and sample maps.
So while providing more information, the program is also 'spiffier'.

Cost
Registration fee is 25 Dutch guilders. When using EuroCheck or International Money Order, make sure that the Check or Money Order, is in Dutch currency. If you send cash then the following foreign currencies are allowed: English Pound, German Mark, French Franc, U.S. Dollar. 25 Dutch Guilders are about 10 English Pound; 23 German Mark; 81 French Franc; 15 U.S. Dollar; or 21 Canadian Dollars. These prices include airmail postage worldwide.

It's a still a slick little program stuffed with a lot of information that is very easy to use. For further information or orders write: Jan Nieuwenhuis, Vloedlyn 12, NL-1791 HH Den Burg (Texel), The Netherlands or via e-mail at jan@nioz.nl.

o Software Review: IDENT2 (V2.1) Freeware by Ary Boender/Flatline
IDENT2 is a 'Freeware' NATO Route-Indicator Convertor and now in Version 2.1. IDENT2 needs 300kb of disk-space and 640kb of conventional memory. Although a DOS program, I ran it under Windows95 in a Pentium 90 just fine.
IDENT2 is an utility to determine the kind of military force that you are hearing. Simply start the program and enter the Route Indicator that you want to identify. IDENT2 will show you the type of station (strategic or tactical), the country of origin, the area where the action is, the organization that owns the link (Air Force, Army, Navy, Min. of Defense, Min. of Foreign Affairs, etc), the level of operation (HQ, brigade, unit, etc) and finally the actual users of the link.
Around 1000 known route indicators are included in the program and will appear when you type the indicator. There is also an external database available and a special editor to maintain that database. This allows you to update IDENT2 whenever you want.

So, you log "RFFVAY" in some digital mode and want to know who it is.
Type it in and here is what you get:

```
     TYPE OF FORCE  :   STRATEGIC
     FORCES ORIGIN  :   FRANCE
     OPERATING IN   :   BOSNIA HERZEGOVINA
     LINK OWNER     :   AIRFORCE
     OPERATION LEVEL:   BRIGADE
     LINK USER(S)   :   DETAIR FRANCE IFOR SARAJEVO
                    :   MCA BATGEN EN BOSNIE HERZEGOVINE
  ---------------------------------------------------------------------------
  RFFVAY IS A STRATEGIC FORCE FROM FRANCE OPERATING IN BOSNIA HERZEGOVINA
         THIS LINK IS OWNED BY THE : AIRFORCE
         LEVEL OF OPERATION IS     : BRIGADE
         THE LINK USER(S) IS       : DETAIR FRANCE IFOR SARAJEVO
                                     MCA BATGEN EN BOSNIE HERZEGOVINE
```

Simple!

And the best part is....it's free! That's right...freeware. Easy to use, simple and quick, you can't maintain your own paper list or database this easy. Available from fine BBS's everywhere. I will also be happy to forward a copy to you. By e-mail so long as you can handle a zipped/uuencoded or zipped attached file, and by mail by sending a IBM compatible 3-1/2 formatted disk and postage to my address above.

o Interesting new www sites
From Andrew Toppan via the Ships list comes information of his recent updated U.S. Fleet lists. This is billed as "a complete, accurate (hopefully), up-to-date list of all vessels in active service with the US Navy, Coast Guard and NOAA". The information is available from the following URL: http://www.wpi.edu/~elmer/navy/current.html Or go to: (http://www.wpi.edu/~elmer/navy.html) and browse through the selections offered there.

The lists are broken down into the following categories:

Surface Combatants -- includes all aircraft carriers, cruisers, destroyers, frigates.
Submarines -- includes all submarines and manned submersibles of all types.
Amphibious Ships, Mine Craft and Coastal Combatants -- includes amphibious assault ships, landing ships of various types, mine countermeasures ships of all types, and major coastal combatants.
Auxiliary Ships -- includes all replenishment ships, tenders, tugs, salvage ships, surveillance, research and surveying ships, command/flag ships, and miscellaneous auxiliaries such as range instrumentation ships, cable ships, hospital ships, coastal tankers and sundry other vessels.
Sealift Ships -- includes all sealift ships in active service or laid up in ROS-4, APF, MPS or RRF status. 172 vessels.
Carrier Wings -- Lists each carrier wing and associated squadrons.
USCG -- All Coast Guard vessels, from the biggest cutters to the smallest tenders.
NOAA -- All National Oceanic and Atmospheric Administration vessels.

Similar but less comprehensive information is available for the Royal Navy and Canada. The listings for these countries include all warships and major auxiliaries, but omit most non-military vessels, such as research ships.

Each entry includes "vital information" such as the displacement, dimensions, propulsion and weapons of a vessel, in addition to its name, number, year of entry into service, fleet assignment, and notes about its future. Ships planned or under construction are also listed. A single image representative of the class is provided in many, but not all, cases.

The total database includes over 1000 vessels. Additional links are provided to official and unofficial sites providing similar information on navies around the world. Additional on-site documents within the "current" section include lists of all aircraft carriers in the world today (short and long formats), list of surviving "true" destroyers, list of surviving big-gun warships, and list of preserved naval vessels in the US. Many additional comprehensive warship lists are available from other parts of the site--several megs worth of text files, and over a dozen megs of images (well over 200 images in all). For further information contact Andrew Toppan at elmer@wpi.edu or elmer@confusion.net

I've been getting a lot of mail about the Hoka Code 3 Gold and I have no further information or a reply from Hoka in regards to an evaluation unit. Sorry about that.

That's it for this month. Next month we have an item for you digital fans and other interesting goodies and reviews for the discerning utility fan!

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WUN-v02

Utility Monitoring in the Maritime Bands

Editor: Jim Pogue (kh2ar@aol.com)
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Again with regrets, a shortened column this month due to work interfering with hobby!

From Alex Wellner: The Holland America Line will conduct 9 tours to Alaska,including 2 days inland.The first tour will depart from Sydney on the 19th of May, the cruiseship will be the 5 star NOORDAM. They will visit Ketchikan, Juneau, Sitka, Valdez, Hubbard Glacier, the College Fjord, and Harriman Fjord. Cruise ends in Stewart,where the passengers will continue inland to Anchorage and flight to Fairbanks.

Also the Holland America Line will conduct six voyages to Scandinavia and Russia aboard the luxurious MAASDAM. Departure from Australia is between the 17th of May and October. New cruise for the Maasdam is a nine day Mediterranean/Morocco,which includes an overland trip to Fez, Meknes and Rabat.

For our European members the Danube Cruises starting a seven day round trip from Passau to Russia,13 days from Berlin to all the Danubian ports, or 10 days from Prague including a Munich stopover. Hope somebody will pick up some of these. Thanks Alex!

And from an anonymous contributor:

Greek customs ships may be heard on the following frequencies: 6420 USB (day) and 4035 USB (night). This service is separate from the Greek Coast Guard and is controlled by the Ministry of Treasury. They run a few fast boats to fight heroine and grass smugglers in the greek seas.

Great tip! If you have information you would like to share, send it along and we'll use it next time....Fair Winds...

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6875 Fielding #02
Montreal (Quebec)
Canada H4V 1P3

STATION VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

CIVIL SHIPS								
M/S Columbus America/DIIU	8240.0	USB	PFC	41	ds	letter	(JP)
M/S Seaward/C6DM2	8198.0	USB	PFC	22	ds	post card	(JP)
M/V Gypsum King/ZCAN2	2182.0	USB	PFC	62	ds	photo	(JP)
M/S Leeward/3FKM5	4071.0	USB	PFC	16	ds		(HW)
Grampian Wood/GVAS	2182.0	USB	PFC	23	ds	info	(AI)
Far Centurion/GDDP	2182.0	USB	PFC	93	ds	photo	(AI)
Putford Snipe/GUHV	2182.0	USB	PFC	76	ds		(AI)
Viking Viper/MPML7	2182.0	USB	PFC	68	ds		(AI)
Toisa Puffin/C6KA8	2182.0	USB	PFC	43	ds		(AI)
Flaminia/IBQD	2182.0	USB	PFC	28	ds	info	(AI)
Aurelia/IBIE	2182.0	USB	PFC	58	ds	ham-card	(AI)
Emerald Bas/J8FW4	2182.0	USB	PFC	45	ds	letter, photo	(AI)
FIXED STATIONS							
USMC Camp Pendleton/NNN0MPN	14441.5	USB	PFC	113	ds	pictures	(RB)
Dimokritos Aero	5637.0	USB	PFC	44	ds	letter	(AI)
NDB Antalya/AYT	302.0	A2A	PFC	46	ds	hrd in Turkey	(AI)
NDB Antalya/YT	413.0	A2A	PFC	46	ds	hrd in Turkey	(AI)
NDB Paphos/PHA	328.0	A2A	PFC	89	ds	hrd in Turkey	(AI)

MILITARY/COAST GUARD SHIPS

NOAAS Townsend Cromwell/WTDF	8294.0	USB	PFC	30 ds		(JP)
USS Platte AO-186/NJFY	7535.0	USB	PFC	41 ds		(JP)
USAV Hobkirk LCU-2023/ADMU	8297.0	USB	PFC	87 ds	letter, info	(JP)
HMCS St. John's FFH-340/CGAK	4560.0	USB	PFC	59 ds	letter, photo	(JP)
USS Clark FFG-11/NJJC	5696.0	USB	PFC	32 ds	letter, brochure	(JP)
USAV El Caney LCU-2017/ADMO	8297.0	USB	PFC	148 ds	letter	(JP)
HMAS Geraldton PTF-213/VLRK	8122.0	USB	PFC	84 ds	letter, cap tall	(JP)
USAV Kennesaw Mtn./AAEG	8297.0	USB	PFC	34 ds	letter	(JP)
FGS Brandenburg F215/DRAH	6779.0	USB	PFC	34 ds	letter	(JP)
FGS Rhein A513/DRHL	6779.0	USB	PFC	310 ds	photo	(JP)
FGS Spessart A1442/DRKN	6779.0	USB	PFC	298 ds		(JP)
USCGC Sanibel WPB-1312/NCDK	8240.0	USB	PFC	27 ds	brochure	(JP)
FGS Koln F211/DRAU	6779.0	USB	PFC	374 ds	letter, info	(JP)
USS Normandy CG-60/NNNOCCO	14470.0	USB	PFC	95 ds	letter, fo's	(AI)
USS Arleigh BurkeDDG-51/NNNOCOA	14391.0	USB	PFC	81 ds	fo, info	(AI)
USS Guam LPH-9/NNNOCRW	14470.0	USB	PFC	42 ds	viewcard	(AI)
Minden M-1085/DREK	3116.0	USB	PFC	9 ds		(AI)
Kalkgrund Y-865/DRXQ	3116.0	USB	PFC	109 ds		(AI)
Auerbach M-1093/DRFR	3116.0	USB	PFC	105 ds		(AI)
U-30 S-179/DRDX	6779.0	USB	PFC	181 ds		(AI)
Rottweil M1061/DRET	3116.0	USB	PFC	105 ds		(AI)

CIVIL AIRCRAFT

Aer Turas 728/EI-CGO	3476.0	USB	PFC	33 ds	DC8-63F, letter	(TO)
Air Portugal 595/CS-TIE	6628.0	USB	PFC	37 ds	737-300, letter	(TO)
Cathay 749/VR-HUE	5634.0	USB	PFC	29 ds	747-400, ltr, tt	(TO)
Continental 294	5550.0	USB	PFC	15 ds	727-200, chrts,ltr	(TO)
Excalibur 302/G-BWKO	8960.0	USB	PFC	17 ds	A320, letter	(TO)
Northwest 1717	6586.0	USB	PFC	41 ds	DC10-40	(TO)
Race Air Cargo/9G-ADS	8894.0	USB	PFC	25 ds	B707-300C	(TO)
Speedbird 184/G-AWNH	2872.0	USB	PFC	67 ds	747-100, letter	(TO)
Swissair 287/HB-IWD	5658.0	USB	PFC	24 ds	MD11, pers letter	(TO)

MILITARY/GOVERNMENT AIRCRAFT

NOAA 45/N485R	5696.0	USB	PFC	15 ds		(JP)
US Air Force 1/AF1	6731.0	USB	PFC	87 ds		(AI)

MARITIME/NAVAL/COAST GUARD STATIONS

AT&T Coast Station/KMI	13083.0	USB	PFC	11 ds	card/chart/bklts	(MB)
Mobile Radio/WLO	4396.0	USB	PFC	30 ds	letter, booklet	(MB)
Kinloss Rescue	5680.0	USB	PFC	28 ds	letter	(JP)
Mont-Joli CCG R./VCF	2182.0	USB	PFC	32 ds	letter, info	(JP)
USCG Group Long Beach/NMQ	5696.0	USB	PFC	12 ds	unit patch	(JP)
CGAERO/CG6011	5696.0	USB	PFC	23 ds		(HW)
CGAERO/CG2139	5696.0	USB	PFC	25 ds		(HW)
CGAERO/CG1720	5696.0	USB	PFC	25 ds		(HW)
Orlandet R./LFO	2182.0	USB	PFC	21 ds	3rd try!	(AI)
Haiphong R./XVG	8470.0	CW	PFC	25 ds	letter, vc f/up	(AI)
GNy Rostock/DHO26	7448.0	RTT	PFC	86 ds		(AI)
AF Saten=84s/SKH	8992.0	USB	PFC	109 ds	letter, 3rd try!	(AI)
MARS Smara, W. Sahara/AR-227	14402.0	USB	QSL	298 ds		(AI)
USCG Boston/NMF	5696.0	USB	PFC	74 ds	letter	(AI)

*** THE LITTLE BLACK BOOK ***

With this month's column I am inaugurating a new title for what was known til last month as Tips & Tidbits. The content, which is QSL addresses and other assorted trivia and advice, will remain the same for the time being. If you have anything to contribute, including trivia or other advice for QSL'ing, please send it along.

Just a note, too, to anyone who's sending QSL's that the corresponding mailing addresses for those are also greatly appreciated. Whenever you send QSL's, try to remember to include their mailing address at the same time.

******

OLD DOGS, NEW TRICKS The traditional method of QSL'ing and submitting

reception reports to utility stations is surface or air mail. Something that you might want to try some time, though, is submitting a report to one of the growing number of utilities that have fax or even e-mail access. One such station (or in this case network) is Global Radio, which operates KLB Seattle Radio, the widely-heard WLO Mobile Radio, and the venerable WSC Tuckerton ("wireless") Radio. Global welcomes comments on their services (which presumably includes QSL requests), that can be submitted to the following phone numbers or addresses:

Fax: (334) 660-9850
E-mail: mmrcusvc@aol.com
Telex: 782027 WLO UD
Voice: (800) 343-1090

Your initial reception report can be submitted by regular snail-mail, and these numbers can then be used for follow-up, since they're much easier and direct. You might even experiment doing the whole thing by wire. If anyone knows of other utilities with similar arrangements, please share the information with us.

******

Andreas Ibold of Germany sends the following comment as per his MARS W. Sahara catch (see Naval Stations): "United States Military Affiliate= Radio System (MARS) radio station AR-227 was operating a Yaesu FT-840 with an output power of 200 watts PEP into a multi-band folded dipole. Station operator was Major Tim Hardy of the United States Air Force, assigned to the United Nations Mission for the Referendum in Western Sahara (MINURSO). Station AR-227 was located at United Teamside Smara, 2 km west of the town of Smara in the north central part of Western Sahara!"

Aero monitor and QSL fan Tony Orr has this comment concerning a particular logging of his last month, Speedbird 069/G-BDXO 5658.0 USB PFC 7 ds 747-200: "I should have made it clear that the QSL was signed and delivered in person by the Captain himself, as we were able to meet up here in DC while he was operating a flight into BA!! Quite an experience to say the least. We had a beer and talked about various aviation-related subjects for over three hours." Sounds exciting, Tony. Hope you thought to get off some snapshots while you were at it.

WUN Military and Nautical editor Jim Pogue recently posted the following address for aero station FSS in Yellowknife, NWT Canada:

Chief Radio Operator
Transport Canada FSS
#5 Yellowknife Airport
Yellowknife, NWT
Canada
X1A 3T2

These are the complete and correct addresses for a couple of 'old reliable' high-seas stations based in the U.S.:

AT&T High Seas Radio Station KMI	Global Radio Network
18500 Sir Francis Drake Blvd.	KLB-WLO-WSC
P.O. Box 9	7700 Rinla Avenue
Inverness, CA	Mobile, Alabama
94937	36619-1199

ANOTHER HINT Among the many 'Hints to Successful QSL'ing' mentioned in last month's column, there was one which was left out: Patience. You can never know for sure when a station is taking its time acknowledging your reception report, or if it is simply ignoring it altogether. Jim Pogue has a QSL posted above (FGS Koln F211/DRAU) that took over a year to reach him, and at least one other that was nearly as long. Henning Sandte of Germany forwarded us one last month that he received after 410 days. I don't know where impatience stands ute monitors in the eyes of station operators whether the squeaky wheel eventually does get the grease, if you submit many reports over a short period of time. But you probably have to take into account that certain kinds of ute stations are notoriously slower than

others. There's no need here to go into which those are, but if you scan this and past columns, you ought to get some idea. Like anybody else, station operators are probably not very receptive to even moderate pressure being applied on them by listeners to QSL. The only advice I can offer in the case of slow verifiers is to check here first, then go about any follow-ups in a systematic and patient fashion.

If there's anybody out there who is using a specific method for following up slow or reluctant QSL'ers, please share it with us as I'm sure we could all use some help in this department.

# # #

IRC'S, MINT STAMPS, AND GOOD OL' 'GREEN'

One of the most important parts of the 'package' of different materials you send out to potential verifiers is return postage. Your 'package' normally includes a cover letter, PFC (printed form card), gummed label with your return address, return envelope, and maybe some kind of 'freebie' article you toss in as an incentive or attention grabber. Return postage, in one form or another, should also be included in all but exceptional cases. There are, no doubt, some ute stations that are in a position and that will in fact verify reception reports at their own expense, without you're having to send them postage (or stationary). But even if they are few, by sending along the postage, you are making the process easier for them, and subsequently for yourself. (Probably the best way for you to evaluate the truth of this is to send out a few reception reports without return postage and decide for yourself whether it's worth it.)

Of three possible methods of including return postage, mint stamps win the approval of ute SWL's hands down. Mint stamps are denominations of postage issued by different countries throughout the world, and which are subsequently sold by special dealers in or near your own area. (For the name and address of a mint stamp dealer, see the end of this article.) When choosing a method by which a station in a foreign land can reply to you, you= just cannot go wrong with mint stamps. In comparison to the alternatives, they are virtually foolproof. If you have already affixed the stamp to the return envelope, the station operator or clerk then needs only pop in the completed PFC and drop it in the mail. If there is a more efficient method than this, I'm sure we'd all like to know it.

The next method, International Reply Coupons (IRC's), has been the subject of a fair amount of criticism lately from even seasoned utes probably deserved. IRC's are ticket-size certificates which are sold by the post-office and are redeemable in foreign countries for stamps sufficient to send back a standard airmail letter. Rick Albright of Merced, Cal., says he dislikes IRC's "because I feel the U.S. price (over .90 cents) is a ripoff. (They cost $3.50 in Canada). They claim to be equal to all airmail postage costs, yet most foreign stations demand at least two or three (Brazil is famous for that). Also, some out-of-the-way stations may find IRC's hard to convert or not worth the effort."

Rick Baker adds that IRC's "are used and understood by broadcasters. But to send one to a warship, merchant ship, businessman or airline pilot who has never seen one is pretty much a waste of time unless the fellow is going to use his own stamps. They must be redeemed at a post office for a stamp only (no cash). They cost U.S..98 cents (the last I knew). Some mint stamps cost less than .98 cents, but in any case can readily be used 'on the spot.' You don't have to run to a post office to redeem them."

However, the nail in the coffin of IRC's comes from one who ought to know, a station operator who has dealt with them from that end and answers about a half-dozen QSL's every year. "IRC's are useless," says ship radio operator John A. Wrafter in a recent post to the WUN listserver. "The time and effort involved in locating a P.O. and redeeming one of these things is simply beyond me."

Which brings us to the last alternative for return postage, what Rick Albright refers to as "green stamps", American moolah, hard currency, $1 bills. "Postage costs are very high in some countries at this time," he says. "Airmail in Japan is just over $1 and in Germany $2 barely does it, but if you include a green stamp or two plus a mailing label, the station can opt to use its own envelope and surface mail rather than airmail. There are no

simple answers and no one method works for all situations. If weight is not a factor, I go with dollars and a plain return envelope. I had over 500 ute replies during a burst of activity between 1987-1992." Wrafter has this to say about receiving money with reception reports: "On occasion a dollar bill has been enclosed with the QSL request, very nice, thank you very much, but I would have responded anyway." As Albright points out, though, "mail theft by postal workers is a very real problem in Latin America and the new Russia, and dollars, IRC's and stamps all have value to a thief. Plus, even if the thief opens your letter and finds nothing, there's no guarantee he's going to reseal it and send it on its way. Of course, the recipient can just as easily keep the enclosure and junk your letter, too."

There are probably at least a few dealers in mint stamps scattered in different locations. But the one whose name seems to come up most often among utes is:

William J. Plum
12 Glenn Rd.
Flemington, NJ
08822 (USA)

Plum specializes in the needs of DX'ers. If you know of any other dealers, either in the U.S. or elsewhere in the world, please send us the information. Until the next time, 73, and Bon Courage!

# # #

Thanks to this month's contributors:
(RB) Rick Baker, USA
(JP) Jim Pogue, USA
(MB) Martin Barry, Canada
(HW) Harold Woering, USA
(TO) Tony Orr, USA
(AI) Andreas Ibold, Germany

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

o Wonderous sounds..... I love it !
In October 1990 Ulysses was launched from space shuttle Discovery. Spacecraft Ulysses' payload includes sensitive radio receivers who are used for the Ulysses Unified RAdio and Plasma wave (URAP) experiment. Ulysses monitored radio emissions between 0 and 940 kHz. These emissions originate from our Sun. The waves are sweeping thru the spectrum approximately every 2 minutes and consist of plasma waves (0 to 60 kHz) and solar radio bursts (1 to 940 kHz). I wonder if we will ever be able to hear the sounds from the Sun. In the mean time we can listen to the wonderous sound of the Northern Lights or Aurora. It is not only a magnificent sight but also fascinating to hear. Natural radio emissions such as these occur in the 0.1 to 11 kHz radio spectrum and can be copied on a good, sensitive ELF/VLF receiver. You must listen far from the city and power lines for a clean signal. When you are interested in the sound of the Aurora, check Mc Greevy's home page for a very nice collection of these sounds:
http://www-pw.physics.uiowa.edu/mcgreevy/

o Speaking of sounds... did you check our own home page for the new sound page ? Folks who asked me how Hyper-fix, Loran-C or Decca sound, check the sound page and you'll know ! There are currently 14 digital sounds available. Let us know what you think of this page.

o The Woodpecker is back !
Yep, the woodpecker will return shortly folks. The US Navy has placed an order with Sanders to manufacture a prototype High Frequency Surface Wave Radar (HFSWR). The system covers the HF spectrum (3-30 MHz). The over-the-horizon-radar is said to provide long-range coverage against

small targets. Land-based testing is planned for February 1997 while shipborne trials will start in August 1997. Let's hope that they cause less interference than the notorious Kiev Woodpecker in the 70's.

o ITT Avionics (c/s KA2XEA) is working on a HF radar system for aircraft tracking purposes. Freqs: the aeronautical bands between 15 and 25 MHz.

o The Georgia Institute of Technology (c/s KS2XCW) transmits video info on 2400 kHz under contract of the US Army.

o The Moroccan army has been heard in SSB, French and Arabic mixed, on 3754 LSB, 7777 USB, 10315 USB, 3625 USB, 3625 USB

DXing New Zealand, pt.1
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In a 2 parts story we will take a look to the utility radio scene in New Zealand.

Some figures to start with:
New Zealand's land area is 268,670 km2 and includes the three main islands: North Island, South Island and Stewart Island plus the Antipodes Islands, Auckland Islands, Bounty Islands, Campbell Island, Chatham Islands, and Kermadec Islands.
There are 93 counties, 9 districts, 3 town districts and 3 dependent areas, namely: Cook Islands, Niue and Tokelau.
The Cook Islands are self-governing in free association with New Zealand. Cook Islands are fully responsible for their internal affairs and New Zealand retains responsibility for the external affairs, in consultation with the Cook Islands. The defense is the responsibility of New Zealand.
Niue is a self-governing territory in free association with New Zealand. Niue fully responsible for its internal affairs and New Zealand retains responsibility for the external affairs. The defense is the responsibility of New Zealand.
Tokelau is a territory of New Zealand.

The following interesting notes from Andrew Brill reached me thru Rick Baker. Thanks a million Andy !
In addition to Andy's frequencies I compiled a list from WUN loggings, the Frequency Manager and Spezial Frequenzliste. <Ary>

Andy sez:
"In NZ we still have quite a number of services using HF. Because of the nature of the country (long and skinny, very steep mountainous terrain and sparse population) it does not lend itself well to VHF. This is changing now and HF is slowly being eased out of the domestic scene here, assisted by the spread of the cellular network to rural areas.

The main users of HF today are those services which need to operate in bush and mountain areas -eg Rural roading contractors, cattle and logging trucks etc.
Public service organisations such as Dept of Conservation (Park Rangers) NZ Forest Service, Department of Lands and Survey etc also still use HF networks.
Emergency services (Police Fire Ambulance) have in the past used HF but the VHF/UHF coverage for these services is just about nationwide now and HF is rarely used.

The following is a list of a few of the more interesting NZ HF channels. I have not included commercial/business comms. They are located mainly in the 3200-3400 4800-4900 5200-5400 ranges on 3kHz channel spacing.

Unfortunately for DX they tend to operate during our daytime and are not usually active when the bands are open to the rest of the world!! If you do manage to hear them, callsigns are in the format ZKxx for bases and ZKxxnn for mobiles. eg Base - ZKAB mobiles ZKAB11 ZKAB24 etc. they frequently abbreviate to by dropping the ZK ie "AB base this is AB45" (or

more commonly "y' there Mick?")

o Civil Defence: Channel: A 5386 (National Calling Channel)
B 2021
K 3360
N 5389 (Northern Zone Primary Daytime Chan)
O 3357
P 2027
Q 3351
S 5407 (Southern Zone Primary Daytime Chan)
2018
3354
5383 kHz

Net Control Stations:
Northern (Auckland) ZKNT works outstations ZKNTnn
Weekly skeds 2000 UTC Tuesdays (0900 Wed local)
Southern (Christchurch) ZKST / ZKSTnn
National HQ (Wellington) ZKHQ - monitors Ch A

Loggings

5383 ZKCT Wellington NZ 0800 USB Civil Defence Central Region HQ wkg outstations (Channel Foxtrot - Central area working frq)

5386 ZKHQ Wellington NZ 0800 USB National Civil Defence HQ wkg ZKNT ZKCT (Channel Alpha - national calling frq)

5389 ZKNT Auckland NZ 0800 USB Northern Region Civil Defence HQ wkg outstations NT22/NT32/NT33/NT37/NT41/NT52/NT54 (channel November - Northern region working channel)

o Other Military stations

2045.00	ZMH 229	CG Kawhia
2045.00	ZMH 35	CG Tauranga
2045.00	ZMH 48	CG Whitianga
2045.00	ZMH 49	CG Taranaki
2045.00	ZMH 54	CG Whangamata R
2045.00	ZMH 83	CG Whakatane R
2045.00	ZMH 83	CG Whakatane R
2068.00		CG Mana
2084.00		CG Mana
2129.00		CG Auckland
2129.00		CG Manukau
2182.00		CG North Kaipara
2444.00	ZMH 229	CG Kawhia
2444.00	ZMH 49	CG Taranaki
2480.00	ZMH 49	CG Taranaki
4125.00		CG Mana
4125.00	ZMH 229	CG Kawhia
4125.00	ZMH 35	CG Tauranga
4125.00	ZMH 48	CG Whitianga
4125.00	ZMH 49	CG Taranaki
4250.00	ZLP 2	Navy Waiouru
4260.00	ZLP 2	Navy Waiouru
4263.20	ZLP 2	Navy Waiouru
4417.00		CG Mana
4417.00	ZMH 229	CG Kawhia
4417.00	ZMH 35	CG Tauranga
4417.00	ZMH 48	CG Whitianga
4417.00	ZMH 49	CG Taranaki
4417.00	ZMH 54	CG Whangamata R
4445.00		CG Mana
5442.00	ZKX	AF Auckland
5687.00	ZKX	AF Auckland
5707.00	ZKX	AF Auckland
5726.00		US Navy Christchurch
6125.00		CG Mana
6215.00	ZMH 229	CG Kawhia
6224.00		CG Mana
6224.00	ZMH 229	CG Kawhia
6339.8	ZLP 3	Navy Waiouru

6436.00	ZLP 3	Navy Waiouru
6436.80	ZLP 3	Navy Waiouru
6723.00	ZKX	AF Auckland
8291.00		CG Mana
8291.00	ZMH 229	CG Kawhia
8294.00	ZMH 229	CG Kawhia
8297.00		CG Mana
8598.40	ZLO	Navy Waiouru
8601.00	ZLO	Navy Waiouru
8601.30	ZLO	Navy Waiouru
8678.00	ZLO	Navy Waiouru
8975.00		AF Palmerston
8975.00	ZKX	AF Auckland
8984.00	ZKX	AF Auckland
8992.00		AF Ohakea
8992.00		AF Whenuapai
8992.00		AF Wigram
8992.00	ZKX	AF Auckland
8997.00		US Navy Christchurch
8997.00	ZKX	AF Auckland
9009.00	ZKX	AF Auckland
9016.50	ZKX	AF Auckland
9024.00	ZKX	AF Auckland
9027.00		AF Dunedin
11235.00	ZKX	AF Auckland
12290.00	ZMH 229	CG Kawhia
12353.00	ZMH 229	CG Kawhia
12719.80		Navy Waiouru
12944.90		Navy Waoiuru
13206.00	ZKX	AF Auckland
13241.00		US Navy Christchurch
13251.00		US Navy Christchurch
15044.00	ZKX	AF Auckland
15053.00	ZKX	AF Auckland
16420.00	ZMH 229	CG Kawhia
16528.00	ZMH 229	CG Kawhia
17128.50		Navy Waiouru
17227.60		Navy Waiouru
18012.00	ZKX	AF Auckland
22630.00		Navy Waiouru

o Police:
  Rarely used (the only gear I know of is on Great Barrier Island North of Auckland and in our mobile command vehicle). Assigned Callsigns ZLKSnn. Freqs: 2828, 4469, 4928 kHz

o Police Search and Rescue:
  In NZ Police Co-ordinate all class 1 and 2 searches (Land and Sea) (There are usually 2 or three each weekend during the summer tramping season). Freqs: 3023, 5680 kHz
  Callsigns - Police Station name; eg "Taupo Police"
  Forward Base: locality name eg "Pirongia"
  Search Teams: locality and team no. eg "Pirongia three"
  Aircraft: Standard Aircraft c/sign eg Iroqouis zero five etc.

o Police Maritime: All HF marine channels - mainly 2182, 2129, 4125, 4417 kHz. Callsign (Auckland) "ZMIH Police Launch Deodar".

o Meteo stations

5806.60	ZKLF	Auckland Meteo
5807.00	ZKLF	Auckland Meteo
5807.00	ZKLF	Auckland Meteo
9458.60	ZKLF	Auckland Meteo
9459.00	ZKLF	Auckland Meteo
9950.00	ZME 4	Raoul Island Meteo
13550.00	ZKLF	Auckland Meteo
13550.00	ZKLF	Auckland Meteo
13550.10	ZKLF	Auckland Meteo

16340.10	ZKLF	Auckland Meteo
16340.10	ZKLF	Auckland Meteo

o Aeronautical Stations

2863.00		Auckland VOLMET
4940.00	ZKS	Rarotonga Air, Cook Islands
5592.00		Auckland Air
5592.00		Christchurch Air
5592.00		Invervargill Air
5643.00		Auckland Air
6637.00		Air New Zealand, Auckland
6679.00		Auckland VOLMET
7740.00	ZKS	Rarotonga Air, Cook Islands
8828.00		Auckland VOLMET
8867.00		Auckland Air
10072.00		Air New Zealand, Auckland
11225.00		Christchurch Air
13261.00		Auckland Air
13282.00		Auckland VOLMET
13300.00		Auckland Air
13333.00		Air New Zealand, Auckland
14500.00	ZKS	Rarotonga Air, Cook Islands
17904.00		Auckland Air
17940.00		Air New Zealand, Auckland
21970.00		Air New Zealand, Auckland

o Red Cross Disaster Relief Teams: 2580 (Night Freq), 5278 (Day Freq)
Net Control ZLCL Auckland works mobiles ZLCLnn during civil emergencies and excercises.

o Dept of Survey and Land Information: 2387, 3336, 5893 kHz

o Mountain Radio Service:
Provides HF comms to Hikers/Hunters etc on foot in mountain areas. Daily skeds, weather reprts etc. Provide rental portable HF gear for users if required. (This would be a challenge for a keen WUNNer 5 Watts to a bit of wet string on 3 megs!!)
North Island - 3345 kHz, c/s ZKVY, ZKVY 11, ZKVY 19
South Island - 3261 kHz, c/s ZFKF, ZKIB 14, ZKIB 72, ZKIB 78, ZKIB 79, ZKIB 86, ZKIB 101

o Various utility stations

3246.00	ZLBC 4	NZPO Campbell Island
3246.00	ZME	NZPO Raoul Island
4601.00	ZLBC 4	NZPO Campbell Island
4601.00	ZME	NZPO Raoul Island
5225.00	ZLZ	NZPO Wellington
5785.00	ZLQ	Scott Base, Antarctica
7490.00	ZLQ	Scott Base, Antarctica
7890.00	ZLBC 4	NZPO Campbell Island
7890.00	ZME	NZPO Raoul Island
8998.00	ZLQ	Scott Base, Antarctica
9435.00	ZLQ	Scott Base, Antarctica
9950.00	ZLBC 4	NZPO Campbell Island
9950.00	ZME	NZPO Raoul Island
10550.00	ZLQ	Scott Base, Antarctica
10608.00	ZLQ	Scott Base, Antarctica
10760.00	ZLQ	Scott Base, Antarctica
11100.00	ZKS 28	Rarotonga, Cook Islands
11570.00	ZLQ 24	Scott Base, Antarctica
13251.00	ZLQ	Scott Base, Antarctica
13390.00	ZLQ	Scott Base, Antarctica
14580.00	ZLQ 27	Scott Base, Antarctica
14655.00	ZLQ 8	Scott Base, Antarctica
16065.00	ZLQ	Scott Base, Antarctica
18360.00	ZKN 9	Alofi, Niue Island, Cook Islands
28230.00	ZL1MHF	Mt. Climie Beacon

That's all I have time for this month. CU ! -Ary-

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W O R L D B A N D S C A N

Editor...Tim Braun
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Welcome to the second edition of WORLD BANDSCAN. This month we take a look at the 7600-7699 Khz range. I would like to take the time to thank the contributors that have sent in their loggings, specifically Rick Baker, Guy Denham, Day Watson and Alex Wellner. This is in addition to the many sources of material consulted for this column, and most importantly for the information published in the last year's worth of The Worldwide Ute News. It is only with your help that this list be as accurate as possible.

This will be a bi-monthly column, so get in your loggings now for the next segment that we take a microscope to: 7700-7799 Khz. Please remember that I try to be as accurate as possible with this listing, but obsolete stations obviously will creep in from time to time. Let me know when you see one.

On with the show:

FREQUENCY	MODE	CALL	STATION/AGENCY	INFORMATION	LAST HEARD
7600.0	SSB		UNID	JR1Z wkg Q0ZZ adv to repeat 'Oscar' subj.	Aug89
	SSB		AUSTRALIA	Many commercial ops	Jan96
	CW	RMR2	LVOV,UKRAINE	W/msgs to RBU70	May95
7601.0	SSB		BULACAN RADIO	Philippines	Feb96
7602.0	CW	FDX	FRANCE	Air Force	
7602.3	RTTY		GANFUDA OIL CO.	ARQ	Aug95
7603.5	RTTY	KAA60	FED.COMM.COMMISSION	Grand Isle,NE 425/45	
7605.0	SSB		US AIR FORCE	Mystic Star network	
	SSB		NASA		
	RTTY/SSB		SWEDISH EMBASSY	Stockholm - ARQ-SWE	
	AM		ISRAELI MOSSAD	VLB/SYN/CIO	
7605.6	RTTY		UNID	US Forces - COUNTRY SONG	850/50
7606.3	RTTY	RFHI	NOUMEA,N.CALEDONIA	French Navy - ARQ-E3	Jan96
7606.7	RTTY	RFTJ	DAKAR,SENEGAL	French Navy - ARQ-E3	Feb96
	RTTY	RFFA	PARIS,FRANCE	MOD ARQ-E3	Jan95
7607.0	SSB		HONOLULU,HAWAII	Aero comms	
	SSB		NADI,FIJI	Aero comms	
	RTTY	SAM38	SWEDISH EMBASSY	Moscow - ARQ-SWE	
7607.5	RTTY	SAM	SWEDEN	MFA Stockholm - ARQ-SWE	
7609.0	SSB		US COAST GUARD	Ship-ship communications	Sep94
7610.0	SSB		FED.AVIATION ADMIN.		
	SSB		PAPUA NEW GUINEA	Defense Forces	Jul95
	RTTY	3XA	CONAKRY AERO	Guinea - 425/50	
	RTTY	SUA231	CAIRO,EGYPT	MENA news - 500/50	
	RTTY		UNID	500/96-syn cont.no app acf	Feb96
	RTTY/CW	RBJ71	KIEV,UKRAINE	CW & 96bd	May95
7611.0	SSB		FED.AVIATION ADMIN.	Ch.7 - US & possessions	
7613.0	RTTY		UKRAINE	Unid stn w/trc to Kalinin	May95
	AM		ISRAELI MOSSAD	GPO	
7613.5	SSB		INDONESIA	Phone net	Jul95
7614.0	RTTY	RFFH	MARSEILLES,FRANCE	French Forces ARQ-E-72	Jan96
	RTTY	5UA41	NIAMEY,NIGER	AFTN/ASECNA 425/55	
7614.5	SSB		UNID	Fijian or Samoan net	Feb96
7615.0	SSB		UNITED NATIONS	MINURSO Semara,Morocco	
	RTTY		UKRAINE	Unid Kiev stn - 96 bd	May95
7616.0	SSB		US AIR FORCE	Ch.A39 - Inform Net	
	SSB		UNITED NATIONS	MINURSO Tindouf,Algeria	
	SSB		PHILIPPINES	Unid phone net	Feb96
7617.0	SSB		US COAST GUARD	Atlantic operations	
	RTTY		UNID	8 second long bursts-75bd	Jan96

7620.0	RTTY	GYA	LONDON NAVAL R.	England 540/75	
	RTTY	OMZ	PRAGUE,CZECH R.	MFA - 425/75	
	RTTY		UNID	200/100 ACF7...occ bursts	Feb96
7621.0	SSB		CANADIAN FORCES		
	ISB	IBH	VICENZE,ITALY	USB-LSB-FAX 96/576-RTTY 850/75 - USAF AWS	
7621.3	RTTY	AJE	US AIR FORCE	Croughton - 75bd	
7622.0	SSB		UNITED NATIONS	UNPROFOR Poland - MilSlunj	
	RTTY	SNN299	WARSAW,POLAND	MFA ARQ/POL//100/E/250	Feb96
	RTTY		UNID	BEE36/50 idling on 36bd	Jan96
7622.5	ISB		ROY.AUSTRALIAN NAVY	Belconnen Naval	
7623.0	RTTY	OMZ1	CZECH EMBASSY	Bonn - 100bd	
	RTTY	OLZ88	CZECH REPUBLIC	MFA Praha - 75bd	
7625.0	SSB		AUSTRALIA	Many commercial ops	
	FAX	AJE	US AIR FORCE	Croughton - 120rpm	Jun95
	FAX	IBH	VICENZE,ITALY	USAF AWS - 120/576	
	RTTY	HZN47	JEDDAH METEO	S.Arabia 400/850/100	Jan96
7626.0	SSB		US COAST GUARD	Ch.3E10...tactical	Nov93
	RTTY	TZH	BAMAKO AERO,MALI	ASECNA 425/50	Jan96
	RTTY	DER	BONN,GERMANY	ARQ-E	
7627.0	CW	KWS78	ATHENS,GREECE	US Embassy	Nov94
7628.0	RTTY		UNID	7 second bursts	Jan96
7629.0	SSB		ITALIAN NAVY	Nimes-Gayone	
	SSB		UNID	Scrambled comms	
7629.1	SSB		US COAST GUARD	Dist.9 Emergency net	
7630.0	SSB	A01	UNID	Wkg A02 in Tennessee	
	FAX	RNR78	ROSTOV METEO,RUSSIA	60/90 RPM	
	RTTY		CANADA	Ministry of Transport	
7631.0	SSB		AUSTRALIA	School of the Air - Charters Towers	
7631.7	RTTY		CAIRO,EGYPT	MFA - SITOR/A//100/E/170	Jan96
7632.0	SSB		US AIR FORCE	MARS	
	SSB		US AIR FORCE	Norton AFB - 1722 CCS Net	
	SSB		US AIR FORCE	Air Combat Command	
	CW	RIT	MOSCOW NAVAL,RUSSIA		
7633.5	SSB		UNID	STEALTH wkg TRADITION adv that they are off freq on Naval Gunfire Support freq.	
	RTTY		US AIR FORCE	MARS - 170/75 & USB	
7634.0	RTTY	P6Z	PARIS,FRANCE	MFA - FEC-A-192	
7635.0	SSB		US AIR FORCE	Civil Air Patrol	Jan96
	SSB		US FED.GOVT	SHARES Net	Jan96
	SSB		UNID	Tactical trc re helos	
	SSB		UNID	SHARK19 wkg BARRACUDA04 w/ pos/speed/contact info.	
7636.0	FAX		BEIJING,CHINA	XINHUA - 120 RPM	
7637.0	SSB		AUSTRALIA	Dept.of Education - Rockhampton	
7638.5	CW	FDC	FRENCH AIR FORCE	Metz-Frascaty	
7639.2	RTTY		UNID	SITOR/B//100/1/170 - 50bd	Jan96
7640.0	SSB		UNID	Scrambled traffic	Jan91
	FAX	RST76	MINSK METEO,BELARUS	60/90 RPM	Mar95
	CW		UNID	Ch.marker 'V'	Apr95
7640.9	CW		UNID	#'s stn w/ID '459'	Apr95
7642.0	RTTY	FDY	FRENCH AIR FORCE	Orleans - 425/50	
7642.5	RTTY		US AIR FORCE	MARS - ARQ HF Mailbox	Feb95
7642.7	RTTY	RFFP	PARIS,FRANCE	Air Force - ARQ-M2-200	Jun95
7643.0	SSB		US COAST GUARD		
	SSB		AUSTRALIA	School of the Air - Longreach	
7643.3	RTTY	RFLIG	CAYENNE,F.GUIANA	French Forces - ARQ-E3	Jan96
7643.5	SSB		UNID	Chinese phone net	Jan96
7643.7	RTTY	RFVI	LE PORT,REUNION	French Navy - ARQ-E3-100	
	RTTY	RFQP	JIBOUTI,DJIBOUTI	French Navy - ARQ-E3	Mar94
7644.2	RTTY	RFFVA	PARIS,FRANCE	French Air Force-ARQ-M2	Feb96
7645.0	SSB		US NAVY	Disaster Net	
	SSB		US MARINE CORPS	Tactical	Jun92
	RTTY	MKK	LONDON,ENGLAND	VFT: DCN	

7646.0	SSB		THURS IS,AUSTRALIA	Dept.of Admin Svcs	
	SSB		AUSTRALIA	Many commercial operators	Jan96
	RTTY	DDH7	QUICKBORN,GERMANY	DWD - 50bd	Jan96
7646.5	SSB		UNID	CHECKPOINT 2/3/4/5/6/7 wkg GROUP28...convoy ops	Nov90
7647.0	SSB		UNID	Scrambled traffic	Dec95
7649.0	SSB		AUSTRALIA	Many commercial operators	
7650.0	SSB		US COAST GUARD		
	SSB		BITUNG,INDONESIA	Telcom	
	SSB		FLORIDA,USA	Dept.of Law Enforcement	
	SSB		UNID	Talk of parts/maint.status	
	RTTY	BZR67	BEIJING,CHINA	XINHUA - 75 bd	Jan96
	RTTY	IER20	ROME,ITALY	IFG - 50bd	
7652.0	SSB		AUSTRALIA	Many commercial operators	Nov95
7653.0	SSB		BENGHAZI,LIBYA	Aero Operations	
	SSB		US NAVY	'FOXTROT TANGO' Net	Aug94
7653.5	RTTY	HBD20	BERNE,SWITZERLAND	MFA - SITOR	Jan96
7653.7	RTTY	HBD63	LONDON,ENGLAND	Swiss Embassy - SITOR	
7654.0	RTTY	HBD64	BONN,GERMANY	Swiss Embassy - SITOR	
7655.0	SSB		UNID	THUNDER1 wkg unid giving report on thunderstorm conditions over central/eastern Colorado	
	RTTY	FIT35	RENNES,FRANCE	Min.of Interior-ARQ-E3	
7656.0	CW		UNID	'VVV ZTH K''R 11 11 4 28 K	Feb96
7657.0	SSB		US AIR FORCE	Lajes AFB discrete	
	RTTY/SSB		US CUSTOMS/DEA	Ch.F	Oct95
	SSB		AUSTRALIA POLICE	WA/NT/SA/NSW/QLD	
7658.0	SSB		RAAF	Search & Rescue	
	SSB		AUSTRALIA	Many commercial operators	Dec95
	RTTY	YZD	BEOGRAD,YUGOSLAVIA	TANJUG - 50bd	Jan96
7658.5	SSB		CANADA	Bush comms - dpx 7818.5	
7660.0	SSB		US AIR FORCE	Mystic Star net	
	SSB		AUSTRALIA POLICE	WA/SA/NSW	
	SSB		GILES,AUSTRALIA	Bureau of Meteorology	
7662.0	RTTY	HBD20	BERNE,SWITZERLAND	MFA - SITOR	
	RTTY		VARIOUS SWISS EMB.	London/Bonn/Praha-SITOR	
	CW	KUN50	AGANA,GUAM	MFA Washington relay	
	CW	KWA80	BANGKOK,THAILAND	US Embassy	
7662.5	SSB		US MARINE CORPS	Tactical	
7663.0	SSB		UNID	Scrambled comms	Jan91
7663.5	RTTY	FDY	ORLEANS,FRANCE	French Air Force - 50bd	
	RTTY		UNID	OQPSK	Jan96
7665.0	SSB		RUSSIA	Antarctic comms	
	CW	OVC	GROENNEDAL,GREENLND	Danish marine	
7668.5	RTTY	HBD20	BERNE,SWITZERLAND	MFA - SITOR	
7669.0	SSB		TUVALU	Inter-island net	
7669.5	SSB		FED.HIGHWAY ADMIN.	Ch.F25-Emergency Comms Sys.	
7670.0	SSB		NASA		
	FAX	RCC76	MOSCOW,RUSSIA	Meteo	Jan96
7671.0	ISB	MKD	AKROTIRI,CYPRUS		
7673.0	SSB		UNITED NATIONS	UNPROFOR Bosnia	
7674.0	SSB		UNID	Phone call w/KTM212 clear	Apr91
7675.0	SSB		US COAST GUARD	Law Enforcement Operations	
	SSB		US AIR FORCE	Air Combat Command	
	SSB		NASA	Ground relay	
	ISB	VHC	ROY.AUSTRALIAN NAVY	Belconnen Naval-PICCOLO	
	RTTY		CANADA	Ministry of Transport	
7676.0	SSB		NASA	Launch support aircraft	
	SSB		UNID	Fijian or Samoan net	Jan96
7677.0	RTTY	HBD20	BERNE,SWITZERLAND	MFA - SITOR	
7678.0	SSB		KIRIBATI	Ministry of the Land	
7679.0	SSB		US AIR NATL GUARD	BROCHURE (Wisconsin ANG)	
7680.0	SSB		UNID	British ops - GUAVA wkg various tracks	Nov91
	SSB		US AIR FORCE	MARS	
	ISB	GXQ	LONDON,ENGLAND	Army VFT:DCN thru 7682.8	Jan96
7681.0	RTTY		UNID	ACF64,SYN blocked-850/75	Jan96
7682.0	PACKET		US AIR FORCE	MARS	Nov95

7684.0	SSB		US NAVY	MARS	Mar94
	SSB		UNID LDOC STATION	Africa-ID's as 07 & 45	Sep95
7685.0	SSB		KENYAN AIR FORCE	Nairobi	
	SSB		FRENCH POLYNESIA	Tokelau Island	
	RTTY	RBV75	MOSCOW,RUSSIA	Meteo - 50bd	Jan96
7688.0	RTTY		UNID	Syn Cont.no app ACF	Jan96
7689.0	SSB		MANILA,PHILIPPINES	Telcom	Aug95
7690.0	SSB		US AIR FORCE	Mystic Star net	
	SSB		DJIBOUTI	Telcom	
	RTTY	TUH	ABIDJAN,COTE D'IVOIRE	AFTN/ASECNA 50bd	
7690.5	SSB		DEPT.OF ENERGY	USA	
7691.0	SSB		FUNAFUTI,TUVALU	Police	
7691.5	SSB		AUSTRALIA	Customs	
7691.6	SSB		US COAST GUARD	Mayport,FL	
7692.0	SSB		MANILA,PHILIPPINES	Telcom	Aug95
	RTTY		UNID	Syn Cont.no app ACF	Jan96
7693.0	SSB		US AIR FORCE	Mystic Star net	
	RTTY	3BT3	VACOAS,MAURITIUS	Meteo - 75/850	Jan96
	CW	ONY27	ROUVEROY,BELGIUM	NATO/Army	
7695.0	RTTY	3MA26	TAIPEI,TAIWAN	CNA	
7696.0	SSB		PAPUA NEW GUINEA	Land Mobiles	Nov95
	CW	UM12	RUSSIA	wkg EWK2/RPR2	
7697.0	SSB		NASA		
7697.1	SSB		BELL TELEPHONE	Ch.50 NSEP Net	
	SSB		OIL RIGS	Triton Eng/Houston,TX	Jul93
7697.2	SSB	EAE220	MADRID,SPAIN	MFA - SITOR	

See y'all in 2 months!!!

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The WUN Logs Column

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Howdy folks, were back for another interesting logs month. After my please last month, we have three new contributors by mail for this issue. Two from England; that rascal "Robin Hood" and Mr. "John Doe" of London. From Kilgore, Tx, comes Robert Thompson. They are joined by mail-regulars Art Blair and Fabio Luis Fonseca, of Gravatai, RS, Brazil and 61 others by e-mail from 15 countries, including our first logs ever from Mauritius. Thanks to all who take time to share what they hear with us.

No update on the condition of Carl Quick. If someone with e-mail capability wants to help out and fill in for him to help in this column, drop me a line.

=CIVIL AERO=

2872 Gander Radio: NF, CAN 0631 USB wkg unid flt 714 w/posrep, adv call Shanwick at 54N. Shanwick, IRE: 0632 USB wkg unid flt 8104 w/posrep, 56N at 280. Gander Radio: NF, CAN 0717 USB wkg unid flt 8182 w/selcal FM-GH. Speedbird 204 0439 USB (AC-JM) wkg Shanwick w/ARP 52N30W F350 (TO)

2899 Shanwick, IRE: (NAT-B MWARA) 0610 USB wkg American 54 w/posrep, Gander had to relay for flt. Gander Radio: NF, CAN (NAT-B MWARA) 0625 USB wkg UPS 6080 w/posrep, 49N/30W 0624, selcal CF-MQ, DC-8 N803UP. At 0631 wkg Tower Air 31 w/posrep. At 0648 wkg World 111 w/selcal ck CM-BD, DC-10 N117WA (ex-N302UW). (RB) Continental 28 0429 USB (GH-AE) wkg Shanwick w/ARP 50N30W F310 ETA 0650. OY-CKK 0430 USB (CG-FS) wkg Shanwick w/selcal check DA900B of Lego Systems. DHL 011 0432 USB (DG-CL) wkg Gander w/ARP 54N30W F310 ETA JFK 0904. SHUCK 36 0501 USB wkg Shanwick w/ARP 52N30W F310. BEAK 75 0115 USB wkg Gander w/ARP 55N50W F290 (TO)

2962 Canarias: 0649 USB wkg Caledonian 074 w/posrep, relays same to Santa Maria. (RB)

2998 AIR MIKE 922 1334 USB w/Naha/just dep't Taipei for Guam "CM-DF" prob COA leased N40489 727-200. AIR MIKE 928 1340 USB w/Naha/just dep't Seoul for Guam "CM-BJ" (JSM)
3016 Gander Radio: NF, CAN (NAT-A MWARA) 0425 USB wkg N938H, w/posrep, Raytheon Corp BAE125/800A. (RB)
5529 Iberia 6170 0122 USB (HL-BD) wkg Madrid LDOC w/ARP & wx rpt. Iberia 6892 0132 USB wkg Madrid LDOC w/ARP MOGNI 0129 F330. Iberia 6820 0134 USB (DF-GH) wkg Madrid LDOC for selcal check (TO)
5535 AAL 956/962/918 0635 USB Heard 3 American Al. flights wkg ATC Station w/SS accent, poss. Colombian Domestic, can anyone confirm this? (MZ) (this would be Lima Flight Support, Peru as below -LOGS) ASCOT 3221: RAF L1011 ZE704 0433 USB wkg Speedbird London w/request to relay posn to ARCHITECT, 45N/46W 0410, est 40N/40W 0504, selcal ck LM-BJ. Lima Radio, Peru: (SAM LDOC) 0506 USB wkg American 999 w/selcal ck CM-EP, 767 N359AA. Lima Radio: 0603 USB wkg American 2101 w/posn over TBG (Taboga) at 0602. (RB) Speedbird 053 2343 USB wkg Speedbird R. req current football results. TCN802 2349 USB clg Lima Flight Support here from Recife-Guararapes no joy, DC8F N802CK of Trans Continental. (TO)
5541 CFG258 1745 USB wkg Stockholm/Req.selcal chk/AJBR DABNH B757. SAS906 1840 USB wkg Stockholm/On ground Copenhagen for radio chk-No reply! CKS707 2030 USB wkg Stockholm/Dep.LFPO 1930/2005 ETA KORD 0404 Cargo 196097lbs Fuel 104400 litres selcal/LMAB N707KS B747. SEDPP 2106 USB wkg Stockholm/o/h Madrid,p/p to Air Ops- Dep Alicante 2100 to Manchester. sel/BJAC SEDPP OOE L101. WOA271 2038 USB wkg Stockholm/ w/ARP/PINED 2038 F330 Fuel 51.6. TRA543 2040 USB wkg Stockholm/a/c PHTKC B757 F370 for selcal ck- no answer. WOA111 2045 USB wkg Stockholm/a/c 9MMAW DC10 selcal chk/EGAB. WOA273 2046 USB wkg Stockholm/selcal chk/GHCS N273WA MD11. SVA5196 2110 USB wkg Stockholm/Msg for Tower Air,NYC:-dep.EBBR 2050/2106 ETA Medina OEMA 0148.475 pax tk off fuel 163.3 Fuel uplift 5825 usgall, req selcal ck/AHDG N603FF B747. TWE7111 2113 USB wkg Stockholm/req.selcal ck DEHM SEDHI MD80. WOA274 2155 USB wkg Stockholm/dep.Dubai 2145/52 ETA EHAM 0505 (N274WA MD11). NCA206 2158 USB wkg Stockholm/ARP UHT 2149 F10100m ETA Narita 0525 Msg to Company. (RD3) World 111 0354 USB (EG-AB) wkg Stockholm R. w/departure msg from SNN enrt JFK. VARIG 704 0408 USB (FQ-EM) wkg Stockholm R. for selcal check. Saudia 905 0423 USB wkg Stockholm R. w/pp to Evergreen Ops ETA BRU 0500 (TO)
5544 Saudia 370 2353 USB wkg Jeddah LDOC w/pp in AR w/wx rpts for various cities (TO)
5550 New York: (CAR-A MWARA) 0605 USB wkg Iberia 6600 w/posrep, 25N/60W 0605 330 & wx, adv 6628 prim, 2962 secondary. (RB) LUFTHANSA 463 2245 USB wkg New York. 463 couldn't find waypoint HUBER which New York had given them in a clearance. A quite vigorous discussion ensued. New York finally went offline for a few minutes as 463 insisted that HUBER wasn't on their charts. New York finally figured out that it was a new name for waypoint WAITE or WATTE or something like that. (TB) OTIS 91 2046 USB wkg NY ARINC w/ARP 39N65W F230. VARIG 832 0921 USB (AH-BJ) wkg NY ARINC for selcal check enrt LAX (TO)
5565 KLM 797: 0562 USB w/Recife @ "NANIK" (06-20.5N/33-10.3W) "EH-AF" PH-BFH 747-400 (JSM) Speedbird 266 0113 USB wkg Recife ATC (KH) REACH 109XX 0002 USB wkg Dakar w/ARP AMDIB F290 (TO) Angola 742 0109 USB (CF-DJ) wkg Recife R. w/ARP ARENU F330 GIG-Luanda ETA 0615. VASP 792 0120 USB (JL-CH) wkg Recife w/ARP RAKUD F330 a/c leased from Skyjet Brasil. Alitalia 689 0134 USB (FK-DL) wkg Recife w/ARP KODOS F330. MEA 666 0226 USB (BG-AF) wkg Recife w/ARP IKTUL F350 enrt to Abidjan from GRU. Lauda Italy 972 0235 USB (DH-BC) wkg Recife w/ARP POLDA F390. REACH 60168 0410 USB w/Recife dpted Ascension climbing F360. Air France 218 0424 USB (HP-JM) wkg Recife w/ARP NANIK F310. Lufthansa 526 0434 USB (FH-JM) wkg Recife w/ARP NANIK F350. VARIG 829 0135 USB (CR-FK) wkg Johannesburg Oceanic at ABV F310. Springbok 207 0357 USB wkg JNB Oceanic w/ARP 05W F410 (Fabio, Tony sez this route is indeed operated by a 747SP -LOGS). Ascot 3450 0339 USB (DJ-BC) wkg Dakar w/ARP F310. Ascot 3201 0444 USB (LM-BJ) wkg Dakar dept. Ascension 0410 F330 now at 05S15W (FLF).
5574 ELITE 864: 0647 USB w/SF @ 45N/130W "CE-BH" prob ex-AMM 757-200 G-OOW. NW 936: 0709 USB w/SF @ "ESCRO" (29-47.8N/133-15.4W) "CJ-BH" N145US DC10-40. (JSM) Northwest 920 0707 USB (CJ-AG) wkg SFO ARINC

w/ARP o/h ABNER 0702. TWA 2 0712 USB (EF-AM) wkg SFO w/ARP COPPI F320 ETA STL 1132 (TO)
5598 TSC 752 0157 USB w/NY @ "BACUS" (34-26N/73-51W) wrong freq "HM-EG" C-FTNH L1011-1 (JSM) Gander Radio: NF, CAN (NAT-A MWARA) 0447 USB wkg Saudi 034 w/selcal ck, CF-GM, 747-300 HZ-AIT. New York: (NAT-A MWARA) 0448 USB wkg American 68 w/posrep, 41N/40W 0444 at 330, selcal HP-RS, relay Santa Maria. (RB) Air Portugal 1971 2053 USB (BM-AR) wkg Santa Maria ARP & oceanic clr to Ponta Delgada. Iberia 6250 0317 USB (DJ-RS) wkg Santa Maria w/ARP 43N40W F370 new A340 EC-154. Singapore 25 0541 USB (BP-GR) wkg Shanwick w/ARP 50N30W F370. Oasis 900 0757 USB (CR-EK) wkg NY R. w/ARP 36N60W F370. Hapag-Lloyd 632 2330 USB (HL-AQ) wkg Santa Maria w/ARP 41N40W F330. Ukraine 5119 0113 USB wkg Gander w/ARP 46N40W F280 neg. selcal IL-62 (TO)
5616 REACH 70022 1108 USB wkg Iceland (C-141B). CFC 1671 1806 USB wkg Shanwick climbing (BH) American 84 0352 USB (JK-MS) wkg Gander w/ARP 58N30W F330. Canadian 40 0427 USB (HL-EJ) wkg Shanwick w/ARP 49N30W F350. BEAK 76 0122 USB wkg Gander w/ARP SCROD F290. GOLD 79 0126 USB wkg Shanwick w/ARP 51N30W F390 (TO)
5628 Tokyo: 1019 USB wkg United 85 w/posrep (AW)
5637 Olympic Airways SX-BKA 1831 USB wkg Athens Radio req selcal check "BLEJ" with Athens Radio (SWA) Selcals are transmitted on 5638 AM. (CK) Athens 0340 USB calling Limnos w/no reply. First time ever heard anything on this Greek aviation frequency. Athens was coming in at over S7! (TB)
5643 QF-7554 1410 USB wkg Honolulu radio Cargo Flight. NZ-1 1410 USB wkg Auckland radio Auckland to london via Los Angeles (SB)
5649 Ascot 4843 USB 55N-30W - 54N-20W Selcal AK-BJ. (JP2) Speedbird 179 2133 USB (BD-CK) wkg Gander w/ARP 55N30W F350. Tourjet 020 0404 USB (FP-ES) wkg Shanwick w/ARP 59N30W F350. Air-India 112 0415 USB (JL-CD) wkg Shanwick R. w/ARP 50N30W F390. El Al 041A 0418 USB (EK-CH) wkg Gander for selcal check. Ascot 2703 2244 USB wkg Gander w/ARP 51N40W F370. CTM 1082 2244 USB wkg same w/ARP 59N40W F370 (TO)
5652 KLM 586 2326 USB (AF-ER) wkg Niamey w/ARP AMSIN F310. EXW103 2341 USB (DK-BG) wkg Niamey enrt Luxembourg-Lagos F330. Speedbird 074 2344 USB (BD-EH) wkg Niamey for selcal check (TO)
5658 Sabena 573 0057 USB wkg Tripoli ATC. LAZ 556 0102 USB wkg Cairo ATC Told to contact Cairo on 129.4 VHF. (KH) PIA 746 2234 USB wkg Sanaa (A300) reg. AP-BAX, selcal AGEH, A300 Johannesburg - Karachi (Sanaa to relay to Nairobi). SEU 492B 2237 USB wkg Cairo -> Khartoum (B737) B737, Luxor - Mombassa fl290, SML (Abu Simbel) 2259 (any ideas which company SEU is? Couldn't find a scheduled flight from Luxor to Mombassa in the ABC either. DLH 8296 2237 USB wkg Cairo -> Khartoum (B747) B747, Frankfurt - Nairobi, fl330, SML 2314. AFR 481 2245 USB wkg Khartoum -> Cairo (B747) B747, Nairobi - Paris CDG, fl310, SML 2344. KLM 564 2248 USB wkg Cairo (MD-11, PH-KCH) route MRW (Merowe) - SML (BH) Pakistan 508 0107 USB clg Lahore ATC (KH) AIC944 2115 USB wkg Bombay, req Selcal chk/GSJQ (Possibly ex.CLI A310 ?). DLH779 2115 USB wkg Bombay/ARP Verla 2115 ALAMA 2154 F310. DLH8297 2115 USB wkg Khartoum/ARP AVONO 2115 F350 KNA 2142. AIC156 2200 USB wkg Bom, Delhi/ARP DPN 2234 F290 TIGER nxt sel/ABCH (V2LEJ L101). KAC361 2145 USB wkg Bombay/ARP ALAMA 2146 F290 VERLA sel/DRFM (9KAMC A300). AFR455 2124 USB wkg Khartoum/ARP EPSIX 2124 F3120 AVONO 2144 KNA. TRU703 2130 USB wkg Called Entebbe several times,Nairobo replied but a/c didn't !! (RD3)
5661 Aeroflot 436 2200 USB wkg Malta, getting a met report. Has anyone heard any other stations on this freq? (MZ)
5673 Unid 1359 Volmet w/computer voice. (SB)
5680 St. John's Radio (FSS) 0431 USB wkg "018." Churchill Radio: 0300 USB wkg Rankin Inlet Radio, then Virgin 020. (JP) Kapuskasing FSS, CAN 2313 USB wkg unid flt reporting over YQT at 2310, adv 'Kap Radio' unable selcal, if selcal needed contact Churchill Radio. (RB)
5691 Khabarovsk: 0915 USB Volmet wx in RR (AW)
6535 LUFTHANSA 503 0222 USB w/Dakar @ "NANIK" (06-20.5N/33-10.3W) "CM-LS" D-AIGH A340-300. ASCOT 3451: 0211 USB w/Dakar @ 05S/15W "DJ-BC" ZD-952 L1011 Tristar Ascension-EGVN. LUFTHANSA 526: 0309 USB w/Dakar @ "KENOX" (14-48.6N/28-29.5W) "AL-EH" D-ABVF 747-400. SPEEDBIRD 67: 0254 USB w/Dakar @ "KENOX" "AL-EH" G-CIVA 747-400 Buenos Aires-LHR. SPEEDBIRD 244: 0221 USB w/Dakar @ "NANIK" "BR-AH" G-BNLZ 747-400

Sao Paulo-LHR. VARIG 721: 0306 USB w/Dakar @ "GAPOL" (14-16.9N/ 26-32.5W) "HK-LM" PP-VMD DC10-30. SPEEDBIRD 267: 0316 USB w/Dakar @ "GAPOL" "BP-CM" G-BNLP 747-400. AIR AFRIQUE 9921: 0345 USB w/Dakar inbound from "TIO" (29-13N/00-15E in Algiers FIR) & to report "UDELA" "DG-EK" 5X-JON 707-300. KLM 798: 0407 USB w/Dakar @ "NANIK" "CG-KS" PH-BFR 747-400. VASPI 750: 0152 USB w/Dakar @ "RAKUD" (03-21N/29-09W) "CE-BD" PP-SOW MD-11. ASCOT 3201: 0129 USB w/Dakar @ 10N/18W "LM-BK" ZE-705 L1011 Tristar (JSM) SWR147 0000 USB wkg Canarias/ARP EDUMO 0000 F370 ROSTA 0045 NELSO sel/AFLQ HBIWD. (RD3) Dakar 0155 USB wkg/French a/c. He was told to stand by in EE by Dakar. (WS)

6556 SINGAPORE 412 1500 USB w/Madras @ "ANOKO" (07-8.2N/94-25E) "DF-GL" 9V-STR A310-300 Sing-Bombay. LTU 769 1507 USB w/Lumpur @ "SAPAN" (08-5.2N/97-32.7E) SAMAK next "BQ-AL" D-AMUM 757-200. QANTAS 6 1523 USB w/Perth @ "UBNAX" (15-42.8S/21-58.2E) "HJ-FP" VH-OJA 747-400 Bangkok-Sydney. MALAYSIAN 317 1528 USB w/Jakarta @ "KEONG" (06-55S/ 120-00E) call BALI on VHF "EP-GL" 9M-MHL 747-400. SAUDIA 5821 1613 USB w/Lumpur @ "ANOKO" "DH-GJ" N502SR 747-100. AEROFLOT 558 1430 USB w/Yangon @ "ROBNO" (10-00N/97-05E) "DM-CL" Singapore-New Delhi. MALAYSIAN 121A 1435 USB w/Jakarta @ "BOMAX" (00-49.8S/107-59.4E) "MQ-AB" 9M-MHN 747-100 K.Lumpur-Melbourne. INDONESIA 972: 1457 USB w/Jakarta @ "DOLTA" (05-07S/105-55E) "BH-MR" EI-CDJ MD-11 Jakarta-Bangkok. MANDARIN 801: 1712 USB w/Ujung Pandang @ "PEDNO" (04N/ 125-21E) "AL-EF" B-1862 747-SP. CATHAY 105: 1713 USB w/Ujung Pandang @"MOLLY" (04N/123-43.1E) "AD-JM" VR-HOY 747-400 HK-Melbourne. PK-TAL: 1304 USB w/Perth @ "SAPDA" (12S/111-25.6E) "BH-GM". BRUNEI 97: 1511 USB w/Madras @ "SAMAK" (07-55N/94-25E) "BL-KR" V8-RBF 767-300E westbound. SINGAPORE 239: 1512 USB w/Jakarta @ "KEONG" (06-55S/120E) "BF-ES" 9V-STW A310-300 Singapore-Darwin. THAI 991: 1533 USB w/Perth @ "ONOXA" (?) "GK-DH" HS-TGC 747-200 Macao-Sydney. SPEEDBIRD 34: 1655 USB w/Lumpur @ "TOSOK" (6N/97E) "BP-AF" G-BNLB 747-400 Jakarta-LHR. MALAYSIAN 137: 1714 USB w/Perth @ "KEONG" "EP-GL" 9M-MHL 747-400 Kuala-Lumpur-Auckland. AIR INDIA 427: 1447 USB w/Yangon @ "ROBNO" (10N/97-05E) "JK-CF" VT-EJH A310-300 Singapore-Delhi. AEROFLOT 566: 1538 USB w/Lumpur @ "TOSOK" FL280 no selcal; pilot confirmed "we are Ilyushin 62". SINGAPORE 412: 1443 USB w/Calcutta @ "ANOKO" (07-8.2N/94-25E) "BF-ES" 9V-STW A310-300 Singapore-Bombay. AIR INDIA 411: 1434 USB w/Lumpur @ "TOSOK" "JM-EG" VT-EQS A310-300 Lumpur-Madras. AEROFLOT 555: 1504 USB w/Perth @ "UBNAX" (15-42.8S/21-58.2E) "CS-DH" Bangkok-Sydney a/c type? UNITED 001: 1512 USB w/Calcutta @ "RISKO" (15-29N/93-15E) what route is this? Airway used looks like Bangkok-India or Europe. AIR FRANCE 6787: 1600 USB w/Calcutta @ "TUNKO" (15-43.1N/92-00E) "FM-BL" 747-200 F-GCBH (JSM)

6559 SPEEDBIRD 58 2105 USB being advised by Johannesburg to report leaving FL315.(TB)

6586 Air Portugal 222 2233 USB (HS-FM) wkg Accra w/ARP F350 Luanda-Lisboa A340 CS-TOB. Monarch 063 2327 USB (GK-FL) wkg NY w/ARP LAMER F350. (TO)

6628 Reach 40066: 1030 USB 39N-20W to Lajes (JP2) New York: (NAT-E) MWARA 0451 USB wkg Speedbird 356 w/posrep, selcal BD-CK. (RB) Air Portugal 1191 2147 USB (AR-GJ) wkg Santa Maria w/departure msg from Funchal enrt Ponta Delgada F310 .74. Austrian 3336 2306 USB (GR-EF) wkg New York for selcal check. Air Europa 192 2321 USB (FM-LQ) wkg NY for selcal check (TO)

6637 Miami 0705 USB wkg several a/c w/Posreps (AW) NEW ZEALAND 8: 0655 USB w/Auckland LDOC w/#2 HF atu needing replacement in Honolulu/ NZ8 selcalled Auckland...nifty! Auckland-Honolulu. TCN 802: 0650 USB w/Houston @ "over Brazil" N802CK DC8-54F. AMTRAN 1268: 0415 USB w/Houston @ just departed MMUN for Detroit "KQ-DG" N751AT 757-200. TRANSCOLOMBIAN 430: 0430 USB w/Miami /out of Bogota for Miami "JK-DE" N507DC DC8-51. UPS 818: 0434 USB w/Cedar Rapids w/selcal ck "CE-KQ" N812UP DC8-73CF. CONNIE 801: 0155 USB w/Cedar Rapids @ 5 mins out of Campo Grande, Brazil N801CK DC8F-55. RICH AIR 7201: 0418 USB w/Miami Chicago-Ft. Lauderdale "CM-AH" a/c type? FINE AIR 432: 0435 USB w/Miami Bogota-Miami "JK-DE" N507DC DC8-51 same a/c as Transcolombian 430! SOUTHERN AIR 873: 0428 USB w/Miami @ departing Bogota N873SJ DC8-73F. TRANSCOLOMBIAN 430: 0243 USB w/Miami/8mins out of Bogota for Miami "JK-LM" HK3816 DC8-51F 2pax/3crew. BIG A 661:

0320 USB w/Miami/15mins out of Bogota for Miami N661AV DC8-63CF. WORLD 522: 0430 USB w/Houston @ JFK /arrived at 0417 N107WA DC10-30F. (JSM) AJT811 0520 USB wkg Miami/dep.Port of Spain0505/10 ETA Georgetown,Guyana 0600. AAL950 0521 USB wkg Houston/relay to DFW(Dsk24) ARP/STM0402 F310 Fuel 86.6. AAL904 0523 USB wkg Houston, ARP-Tepeem?0523 F390 Fuel 67.1 sel/APBQ N366AA B767. CKS102 0530 USB wkg Miami/arr.Bogota0510/20 Fuel 19.8 ETD approx.0900 N102CK L101. AAL924 0525 USB wkg Houston/ARP o/h Manaus F350 Fuel 68.5 sel/CMGP N361AA B767. CKS811 0530 USB wkg Miami/arr.? 0454/59 fuel 31.0 ETD approx 0600 N811CK DC-8 (RD3) Fine Air 556 0410 USB (CD-BF) wkg Miami R. LDOC w/dept. msg BOG ETA MIA 0706 (TO)

6640 AIR TRANSPORT 119: 0536 USB w/SF w/selcal ck "EM-AH" N47UA DC8-61F. (JSM) AMERICAN 647 2141 USB wkg New York w/PIREP of continuous light chop around waypoint HOMER (TB) (Tony sez WP is 'Holma' -LOGS)

6655 Tokyo 1008 USB wkg flight V69, after selcal adv flight of primary 5667 and secondary 6655 KHZ. (AW) 1357 Calcutta radio (SB)

6673 San Francisco: (CEP-5 MWARA) 2355 USB wkg American 27 w/clearance, cleared to maintain mach .84. (RB)

6676 Unid 1354 Volmet. (SB)

6905 VJI: Mount Isa Flying Doctor Service 0800 USB Base to outpost (AW)

7595 Gulf Air 713 0013 USB wkg Mogadishu R. SOMALIA w/ARP. Mogadishu R. 0015 USB wkg Sanaa Radio re: GFA713 (TO)

8828 Auckland 0020 USB w/Volmet wx to New Zealand (AW) Honolulu Volmet (PAC-VOL) 0430 USB w/H+30 aviation wx. (RB)

8846 OTIS 91 1939 USB req radio check from NY ATC (MF2)

8855 VASP 234 0252 USB wkg Manaus R. w/ARP XINGU F350. VARIG 2057 0308 USB (AP-LM) wkg same w/ARP Mitu F370 enrt Cancun-Galeao (Rio). TBA 176 0315 USB wkg Manaus w/ARP NABOL F390. United 990 0337 USB wkg Manaus w/ARP TESAL F350. Cubana 461 0334 USB wkg Porto Velho w/ARP MUPIR F350 (FLF).

8864 Gold 81 USB wkg Gander 61n 30w 1321 fl350, 61n 40w 1401, 59n 50w req fl370: unable due traffic. N430A 1318 USB wkg Shanwick (Westwind) 53n 30w 1332 fl330, 53n 20w 1409, 53n 15w (self-ID'ed as Westwind). REACH 410 1351 USB wkg Gander 61n 30w 1402 fl370, 61n 40w 1444, 59n 50w. UTAH 82 1207 USB wkg Gander (KC-135) 57n 30w 1206 fl350, 56n 40w 1254, 54n 40w. REACH 70019 1240 USB wkg Shanwick (C-141B) 49n 30w 1237 fl350, 52n 20w 1324, 53n 15w. N667SW 1618 USB wkg Shanwick (Gulfstream) self ID's as Gulfstream, selcal LPES. N500MH 1620 USB wkg Gander,Gander calling, no joy (BH)

8867 Polynesian-843 0202 USB wkg Brisbane radio 0202z 8867 Apia to Sydney. EVA AIR-366 0207 USB wkg Brisbane radio Auckland to Taipei. NZ-31 0225 USB wkg Brisbane radio Auckland to Narita. N319Q 0225 USB wkg Brisbane radio To Sydney. Any help with ID please. Coast Watch 117 0234 USB wkg To Brisbane radio On rout to Mackay QLD. VH-HJH 0234 USB wkg Brisbane radio To Lord Howe Island. QF-46 0243 USB wkg Brisbane radio Christchurch to Sydney. NZ-79 0250 USB wkg Brisbane radio Auckland to Hong Kong. Air Nauru-321 0255 USB wkg Brisbane radio Nauru to Melbourne CSFJ C2-RN10 737.400. REACH-6E7 0600 USB wkg Auckland radio To Auckland on it's usual run. Niugini-3 0615 USB wkg Brisbane radio Port Moresby to Brisbane. REACH-6E8 0619 USB wkg Nadi radio To Honolulu. QF-11 0633 USB wkg Nadi radio LQCE VH-OJM 747.400. Air Van-17 0259 USB wkg BNE Port Villa to brisbane EPDR VH-TJI 737.300. VH-SVN 0304 USB wkg BNE PA-31 Chieftain w/Seaview Air. VH-HJE 0310 USB wkg BNE PA-31 Chieftain. NZ-21 0313 USB wkg BNE Auckland to Singapore. Cathay-108 0314 USB wkg BNE Auckland to Hong Kong. Pacific-931 0315 USB wkg BNE Melbourne to Nadi. FREEDOM-961 0317 USB wkg BNE. United-842 0318 USB wkg BNE Melbourne to Los Angeles. Coast Watch-173 0352 USB wkg BNE To Mackay 1500ft. PREMIER 1972 0353 USB wkg BNE B727 freight. (SB) Pacific 932 0602 USB wkg Nadi w/request for ground speed from ATC. Ansett 870 0604 USB wkg Brisbane w/ARP F290 squawk code 2347. Solomons 711 0605 USB wkg Nadi w/ARP F310 .77. Singapore 7298 0611 USB wkg Brisbane w/ARP VIROG F390 IGEVO 0631. Qantas 56 0613 USB (DK-EM) wkg Brisbane req F310. United 842 0624 USB (AS-DM) wkg Nadi re Satcom link and selcal check on HF. VH-NCP 0626 USB (JS-??) wkg Brisbane w/ARP F410. Qantas 44 0626 USB (DK-EJ) wkg Auckland w/ARP OSASI F350 .84. Pacific 913 0628 USB wkg Nadi w/ARP F330 .84 Nadi next. Ansett 874 0629 USB wkg Auckland departing Norfolk Island on 260 radial F220 climbing F280, 0632 USB

receiving clearance to Brisbane via flight plan route, Fokker F.28. Aussie 708 0645 USB wkg Brisbane w/ARP DOSOB F180 climbing. Qantas 104 0726 USB (EG-FL) wkg Tahiti w/ARP F390. Polynesian 844 0732 USB (FP-KR) wkg Nadi w/ARP OMORI? F370 .74 grnd speed 533 kts. (TO)
8879 Lufthansa 404 1837 USB (LM-HS) wkg Gander w/ARP 58N30W F350 (TO)
8891 NIPPON CARGO 083: 2100 USB w/Baffin @ "LT" (Alert VOR 82-31.5N/ 62-12.8W) westbound on polar track "QUEBEC" "AF-JK" JA8194 747-200F. (JSM)
8894 SJM 6216 2336 USB wkg algiers ALGERIA w/ARP TMS F310 (TO)
8903 AIR MAROC 080 0010 USB w/Brazza @ "IPAMU" (02-42S/13-20.4E) "AE-BP" CN-MRT 757-200. (Tony sez this should be flight 280 vice 080 -LOGS) ETHIOPIAN 960 2314 USB w/Kano @ "ONKOR" (05-58.7N/4-49.4W) "CM-AK" ET-AIF 767-200 Legos-Brazza. SPEEDBIRD 54 2321 USB w/Kinsasha @ "UPABO" (03-23N/19-57E) "BP-CJ" G-BNLM 747-400 Joburg-LHR. JAMBA 001 0012 USB w/N'Djemena @ "ENDOK" (21-09.9N/11-30E) FL410 dest Entebbe. JAMBA 002 2313 USB w/Brazza @ "AMPER" (05-00N/26-24.2E) ZS-SPA 747-SP Entebbe-LHR. ZIMBABWE 725 0042 USB w/Kinsasha @ "MPK" (04-22.5N/ 18-31.6E) "EF-CH" Z-WPE 767-200 Gatwick-Harare. ANGOLA 060 0054 USB w/Brazza @ "LIKAD" (05-7.4S/11-42.4E) KOPOV next D2-TOK 707-300 Luanda-Lisbon. AIN 854 0057 USB w/Kano @ "IKROP" (05-46.6N/08-52.5E) BATA NDB next "AK-JM" 3D-AFR DC8-54F Malta-Libr'vle. EXW 115 0126 USB w/N'Djemena @ "AMTES" (20-05N/02-22E) relay to Niamey 9G-MKD DC8 Gatwick-Legos/ who EXW?? ZIMBABWE 727: 0040 USB w/Kinsasha @ "MPK" (04-22.5N/18-31.6E) "FJ-BH" Z-WKU 707-300. JUMBO 1: 0123 USB w/ N'Djamena @ "ENDOK" (21-09.9N/11-30E) FL410 who is this ? KHO 3242: 2342 USB w/Kinsasha @ "SAGBU" (03-58.1N/30-18.7E) at the Kinsasha/ Khartoum FIR inbound/ dept FYSN for FNLU reg UR-76297 ex-CCCP? ZIMBABWE 725: 0026 USB w/Brazza @ "MPK" (04-22.5N/18-31.6E) "FJ-BH" 707-300B LHR-Brazza. ETHIOPIAN 960: 0047 USB w/Kano @ "ONKOR" (05-58.7N/04-49.4W) ET-AIE 767-200 Legos-Brazza (3rd time logged this flight and a/c!). DSR 405: 0058 USB w/Brazza @ "ERAVA" (03-10.6N/ 06-47.2W) Port Harcourt, Nigeria-Lusaka. NIGERIA 9802: 0108 USB w/N'Djemena @ "EPUTA" (09-49.9N/14-41.8W) with GAROUA next Jidda-Kano. (JSM) Air France-273 0336 USB wkg Moresby Noumea to Paris. QF-97 0337 USB wkg Moresby Cairns to Fukuoka. Japan Air-772 0344 USB wkg Moresby Sydney to Narita (SB) Air Gabon 600 2049 USB (AE-BK) wkg Brazzavile for a selcal check on the ground Libreville. Springbok 264 2050 USB wkg Kinshasa w/ARP passed VVL 2041 747-200 reg. ZS-SAM. Speedbird 056 2103 USB wkg Lubumbashi R. ZAIRE w/ARP reg. G-BNLY 747-400. Cedar Jet 007 2109 USB wkg N'djamena R. TCHAD w/ARP GNA F390 c/s of MEA Lebanon. TSG 391 2110 USB wkg Brazzaville told to QSY Douala CTR 125.1. VARIG 1095 2112 USB wkg Luanda R. ANGOLA enrt Campinhas-Nairobi F370. Gbadolite R. ZAIRE 2115 USB wkg Lubumbashi re: Speedbird 056 IDed as "Gbado". Nacoia 408 2123 USB wkg Brazzaville R. w/ARP enrt Loubomo-Luanda F280-req'd F350 & complained of heavy t-storms at present FL. Springbok 232 2139 USB wkg Luanda abeam WHV F330. KLM 598 2220 USB wkg N'djamena R. w/ARP F350 reg. PH-BFI 747-400. 5N-FGP 2140 USB (FG-PS) wkg Kano w/ARP est KA 2340 enrt to Abuja, Nigeria. Speedbird 052 2148 USB wkg Kinshasa ZAIRE w/ARP a/b Harare 1933 ETA LGW 0520. Air Afrique 4616 2157 USB relaying ARP of RK4657 to N'djamena Radio. Swissair 273 2222 USB (AG-HQ) wkg N'djamena w/ARP UMOSA 2305 F310 (TO) SABENA 048 0010 USB wkg Brazzaville R. B707 reg. 9Q-CKK ETA Kinshasa 0234 (Tony sez operated by this a/c 9Q-CKK Zaire Express on behalf of SABENA -LOGS) SJM 6603 0100 USB wkg Brazza CONGO w/ARP MNV F310 enrt JNB-LAG B747 reg. N740SJ. Zimbabwe 725 0046 USB wkg Kinshasa ZAIRE w/ARP MOK F370 B767-200ER reg. Z-WPF (FLF)
8906 BLUE 01 1815 USB wkg New York (KC-xxx) estimate zibut 1940. REACH 4R1 1819 USB wkg Shanwick nothing heard. N995BC 1824 USB wkg Gander (Gulfstream) 47n 30w 1823 fl410, 48n 40w 1919, 49n 50w, selcal LRDS,self-ID'd as Gulfstream (BH) TITAN 81 2132 USB wkg NY w/ARP 44N55W F260. SPAR 19 2133 USB wkg NY w/ARP 37N50W F290 .73 dest. HECA (TO)
8930 LTU751 1730 USB wkg Stockholm/ Req,p/p to LTU ops:Delayed arrival due to re-occurring tech.problem with hydraulics & fuel leak from seal in refuelling panel.ETA Dusseldorf 2015 a/c 'RF' (DAERF A330). CFG345 1640 USB wkg Stockholm/o/h Belgrade p/p CFG ops.Sharjah to Munich a/c DABNE B 757. WOA276 1650 USB wkg Stockholm/On ground Jeddah for radio

& selcal chk/GHCS N276WA MD-11. HALCV 1652 UAB wkg Stockholm/Req pp Budapest OCC (TU154 MALEV). RIA7200 1657 USB wkg On ground ENVA for radio check. UAE462 1700 USB wkg Stockholm/dep.Jo'burg to Comores ETA1826 then to Dubai ETA0130 Req. Comores wx and selcal ck/GKJS (A6EKO A300). CYP326 1710 USB wkg Stockholm/o/h the Med Larnaca-Heathrow ETA 2130 Req EGLL wx/selcal ck/DHEM (5BDAR A310). WOA 'MAZ' 1645 USB wkg Stockholm/ARP BBM 1645 F310.ETA OEJN 2145 Fuel 54.1 sel/EGAC (9MMAZ DC10). OOGBL 1800 USB wkg Stockholm pp to Company ops. (LR35A). UAE073 1900 USB wkg Stockholm/dep.Ho Chi Minh to Dubai ETA 0130. sel/FQGL A6EKB A310. LDA650 1900 USB wkg Stockholm Radio, selcal chk/BLJK ??. UAE624 1928 USB wkg Stockholm o/h Iran. Tehran to Dubai ETA 2330 sel/GLAR A6EKP A300. WOA277 1922 USB wkg Stockholm/Msg to Company ETA Surabaya 0353. WOA'MAZ'1930 USB wkg Stockholm/Req,Jeddah wx. selcal/EGAC 9MMAZ DC10. VKG1104 1945 USB wkg Stockholm/p/p to Premiair Ops Copenhagen. (RD3)

8933 SAA275 1945 USB wkg Springbok Ops/ETA Jo'burg 0549.ARP/CSO 2146 F330 Will call later (RD3)

8939 VARIG 300 0240 USB wkg VARIG LDOC (Recife) w/dept. msg from Sao Luiz 0230/35 ETA Belem 0325; B737-300 reg. PP-VOG (FLF)

8942 JAPAN ASIA 222 1716 USB w/Manila @ "SEKSI" (12-16.2N/113-59.8E) "FJ-KM" JA8534 DC10-40. EMIRATES 073 1646 USB w/Ho-Chi-Minh @ "PATKA" (08-00N/106-30E) "FQ-GL" A6-EKB A310-300 Sing - Ho-Chi-Minh SINGAPORE 15 1647 USB w/Sing @ " IDRUX" (08-22.6N/110-19.6E) "DQ-AS" 9V-SMY 747-400 Seoul-Sing. SINGAPORE 882 1653 w/Sing @ " KANTO" (06-49.6N/103-48.2E) "BP-FR" 9V-STX A310-300 Sing-Seoul. LUFTHANSA 8455 1756 USB w/Hong Kong @ "CAVOI" (17-13.5N/110-00E) "BL-AF" D-ABYT 747-200. JAPAN AIR 716: 1641 USB w/Singapore for pre-flight radio check "JK-CG" JA8545 DC10-40. UPS 6814: 1650 USB w/Singapore @ "MAARI" (05-56.3N/108-48.8E) "CE-AQ" N801UP DC8-73F. (JSM)

8960 Portishead Radio 2102 USB wkg '503' passing frequency of 139.95 for Madrid. (TB)

9013 Argentina 1745 1940 USB OW-Aerolineas Argentinas LDOC (QTH: Aeroparque Jorge Newbery-Buenos Aires) wkg this flight rpting maintenance problems w/"doors closed" lighting. Argentina 1883 1956 USB wkg OW LDOC w/req for someone to meet two children upon arrival. Argentina 1375 2016 USB wkg same w/req for ambulance to meet pax. (FLF)

10033 DHL flight 1921 USB checking in w/ground station in Miami (MF2)

10057 Brazzaville VOLMET 2100 USB Aero wx for various cities in FR, very strong signal (TO)

10072 Speedbird 8918 1830 USB wkg Speedbird R. for London wx; not available. Caledonian 5481 1832 USB wkg same w/req pp to Cally Ops ETA LGW 2115 (TO)

10075 Cedar Rapids: LDOC, Ia, US 0024 USB wkg Connie 801 w/ETA SBGF. (RB)

10096 Malaysia 202 0138 USB (GH-BR) wkg Ezeiza R. ARG w/ARP KILOS F330 reg. N273WA of World. Malaysia 4816 1729 USB wkg same w/ARP ANKOK F330. (FLF)

11366 VARIG 2056 1750 USB (BL-FJ) wkg VARIG LDOC (Rio de Janeiro) w/ARP ATF ETA CUN 2335. VARIG 477 1804 USB wkg same rpting arr. at Brasilia 737-200 reg. PP-CJP. VARIG 482 1810 USB rpting arr Campo Grande 1800/04 B737-200 reg. PP-CJS (FLF)

11396 AIR CHINA-176 0610 USB wkg Perth radio. Coast Watch-523 0350 USB wkg Perth (SB)

12233 N62JT: Pilatus PC-12 of Serka 2319 USB Aviation, De, concluding R/T tfc w/KMI (on 13080). (RB)

13261 DTA-06F: 0123 USB wkg/Nadi radio, also 17904, id as a B707 D2-TOP EGAL on rout from Manila to Nadi. (not thru cairns) (SB)

13304 El-Al flight 1000 USB w/El-Al, Tel Aviv LDOC wx rpt in Hebrew (ANEE)

13330 CWW 823: 2156 USB w/Houston @ just dept Cancun for Freeport, Bah. "KS-ER". UNITED 881: 1738 USB w/Houston on ramp at Chicago "FG-CP" N173UA 747-400 ORD-Tokyo-Taipei. UNITED 803: 1749 USB w/Houston @"over Toronto" "AC-EG" N151UA 747-200 Newark-Tokyo. COAST GUARD 1: 1956 USB w/Houston w/selcal ck "AF-LP" (JSM)

13339 Aero Mexico: unid loc LDOC, MEX 2325 USB wkg unid flt in SS comms, selcal ck. (RB)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and

both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

518 CORSEN [A] 2000 FEC Nav wngs. CULLERCOATS [G] 2048 FEC Wx, Nav wngs. GISLOVSHAMMER [J] 1931 FEC Nav warnings. Originated Ruegen, Lyngby, Baltic Sea subarea n/wng001, Swedish Wx forecast. GISLOVSHAMMER [J] 2040 FEC Wx wngs, nav wngs. Finnish wx forecast. MONSANTO [R] 1855 FEC Nav warnings. NETHERLANDS CG [P] 1945 FEC Nav warnings. NITON [S] 2018 FEC Wx. Nav wngs. PORTPATRICK [O] 1948 FEC Nav warnings. REYKJAVIK [R] 1918 FEC Wx forecast. Repeated. STAVSNAIS [U] 2034 FEC Nav wngs fm Helsinki, Tallinn, Klaipeda. TARIFA [G] ? 2100 FEC Wx, Gibraltar, W Alboran, Argelia. (DW)
1490.7 MFA ISLAMABAD ? 1609 TWINPLEX 100 Weak, irs. Weaker twinplex in background. Eventually faded but still active. (DW)
2460 RIGA RADIO (YLQ) 1915 ARQ wkg unid ship. Constant mark between bursts. Marker "YLQ scanauto" and tuning bursts. (DW)
2607 FUO: Toulon, F 1810 RTTY 75b/850 test tape w/RY's, SG's. (JD2) FUO: FNY Toulon,F 2050 RTTY 75b DE FUO RY/SG tape. (RK)
2750.5 EHG4: GC Orense,E 1933 ARQ sx Sp tfc, selcaling TXXX. (RK)
2892.3 MGJ: Faslane Naval base, Scotland 1800 RTTY 75b/850 CARB (replacing MTO which has now ceased transmission). (JD2)
3082.2 CSP32: POL Vila Real, POR 2345 FEC 20032 CDVRL, & msg fm C.P. VILA REAL. (RK)
3203 Unid: Royal Navy,??? 1941 RTTY 75bd/850 Baudot, crypto "16ry's vmgtcnjbh" (MC)
3229.5 Unid: 0315 RTTY w/USAF coded wx, ment.KAWN (RT2) (AFS: USAF Offutt AFB, Omaha (Elk Horn xmit site), Ne -LOGS)
3282.2 Portuguese State Police, POR 0709 FEC w/weak tfc in Portuguese. (RB)
3331 Unid: 2218 RTTY 50/170 ATU-80 tfc (MC) (unid "N.Africa" in 5/95 WUN, listed as "Tunis" in 12/95 WUN -LOGS)
3358.5 NAM: Norfolk,VA 0210 FAX 120/576 strong quality (RT2)
3386.3 Unid: 0540 ARQ-E3 192/425 Idling. (RB)
3394 NAU: Roosevelt Roads,PR? 0315 RTTY w/coded wx (RT2)
3451.5 Irish Navy units: 0200 ARQ relaying wx reports. (ANEE)
3529.2 Unid: 0130 ARQ-M2 200 (ANEE)
3561.4 Unid: 2030 ARQ also FEC tfc here (ANEE)
3583.5 Unid: 2030 CLOVER 200 poss. Croatian army? (ANEE) (several known amateur digital mailboxes in this area also -LOGS)
3593.8 Unid: 0145 PACTOR 200 til 0200 (ANEE)
3832.7 RFFVA: FAF Paris,F 2000 ARQ-M2 200 'FDXB...' msg to RFFVAY. (RK)
3861 UNID: 0736 ARQ-E 85.7/170 On line encrypted tfc. (DW)
3903.7 D7FS: 2201 RTTY 50/1000 Idling on space. Burst of ry's and ID D7FS at each 15 min from the hour. W8NZ: 2040 RTTY 50/1000 Idling on space. Short ID and ry's at 2058z. Callsign yesterday [D7FS] & on 28/Feb [XN2B] ie daily tactical callsign. (DW)
4159.2 Unid: 1905 ARQ comms in unid lang. (BvR)
4172.5 ESBX: MV Pihtla 2152 ARQ msg to ESA/Tallinn in Estonian from Km Retskalov. Vsl is ex Vera Lebedyeva c/s UDUC. (HOOD)
4173.5 WSRH: SS Kauai 0635 ARQ rx only login 11330 wsrh. LNVP3: Song of Norway 0635 ARQ opr+ mode. (WT)
4174.5 J8KY8: MV Sunwave 2140 ARQ msg to FFT/St Lys login 02336 SUNWAVE. Vsl owned by Sunset Maritime Corpn, Monrovia GRT 2136 and Captain is Latvian (Pudans Martins). ITU gives as Telendos. (HOOD) 3ELQ9: M/V Columbine 0438 ARQ w/tlx eta Capetown. Ex-Joseph Lykes. login 42971 jsly. (WT)
4175 ELFT8: M/S Celebration 0424 ARQ w/tlx login 24829 clbn. ELRB8: Costa Romantica 0505 ARQ w/amver/fr login 24635 elrb8. (WT)
4175.5 ELNX9: TK Tromso Fidelity 2100 ARQ selcalling KYXX=3711/UFN/NWR, msg, 24906 ELNX9 X. (RK) WLBX: M/V L. H. Gianella 0508 ARQ w/movrep. Arr SFO on the hour. (WT)
4177 OXRO2: M/V Helvetia 0700 ARQ w/tlx re departed Veracruz, ETA Progresso. (RB)
4178 YLAW: Pablo Neruda 1920 ARQ selcalling CVCX=6061/YLQ/Riga on channel ''00104, 60626 YLAW X, QTH+ msg. YLBM: MV Tavala 1927 ARQ to YLQ/RG, QTH+ msg, 60639 YLBM X. YLBP: TK Hose Marti 2000 ARQ msgs to YLQ/RG on ''00104. YLAY: MV Inzhenieris Kreylis 1953 ARQ QTH+ msg to Riga on ''00104. (RK)

4178.5 WEHV: Overseas Alaska 0450 ARQ w/tlx, dept tacoma, eta Cape Hinch.login 11084 wehv. WEHV: Overseas Alaska 0527 ARQ w/wx obs, bbxx. login 11084 wehv (WT)
4179 HBDJ: ST. Cergue 0143 ARQ w/amver/fr (WT)
4180.5 OXBM6: M/V Fetish 0548 ARQ w/bbxx. (WT)
4202.5 UALX: RTMS Volnyy Veter 2200 RTTY 50b 3cyr msgs KLD/MRH, ex UVWZ. (RK)
4204 LYFZ: RTMKS Vidunas 2144 RTTY 50b 3cyr msgs to KLP; latin: Vydunas/LYFZ. (RK)
4205 UEXX: TH Donskoy 2025 RTTY 50b 3cyr msg to Mariupol. (RK)
4212.5 FFT21: St Lys France 1708 ARQ 100/170 Traffic FF (AB3)
4258.2 MGJ: RN Faslane,G 2012 RTTY 75b QSX mkr //2892.3/6336.2/8672.8. (RK)
4322.1 MGJ: Faslane Naval base, Scotland 1800 RTTY 75b/340 CARB (1 channel of an FDM aggregate replacing MTO which has now ceased transmission). (JD2)
4343 WLO: Mobile Radio,AL 0037 FEC traffic list, at 0337 w/union newsletter, at 1335 w/hourly traffic (RT2)
4396.7 Unid, CIS?: 0440 Unid 200/500 w/encryption, poss CIS station? (RB)
4442.6 Unid: 1913 ARQ-E 100 idle NGN? (BvR)
4446.7 Unid: 2005 108.9bd/170 FSK UNID System, ACF=32 (QSX=5315.7kHz) (MC)
4492.2 Unid: 1919 RTTY 50 scramble Italian Army, Torino? (BvR)
4510 Unid 0400 PACKET BB tfc M00940 and NE0021 (TV)
4583 DDK2: Hamburg 1927 RTTY 50 meteo wx (BvR)
DDK2: Hamburg Meteo 0529 RTTY Born, G 50/425 w/GG wx. (RB)
4595.5 EHG4: GC Orense,E 1925 ARQ sx selcalling TCWP, tfc CFM M2 DE G4. (RK)
4615 UNHCR Banjaluka, BIH 1900 ARQ EE msg sgd UNHCR BANJALUKA. (RK)
4752.5 RETYMA***: Guardia Civil, Albacete 2006 ARQ Crime reports in SS to RETXX (Madrid) (MC)
4768 CCS: Santiago Chile 0925 RTTY 100/850 Chilean Navy 5LG and RY (AB3)
5036.7 MFA Cairo,EGY 1812 ARQ selcalling XBVP=11105/Roma, tfc. (RK)
5049.2 Portugese state police 0745 FEC Cmd & CP Coimbra w/circulars to all continental posts (this is day freq qsy to/from 3282.2, the fixed night freq is abt 0600/1800 propagation-dependent) (ANEE)
5055 JFY6: Amman Jordan 1621 RTTY 50/405 PETRA nx AA. (CC)
5121 Unid: 1857 ARQ-E 192 idle (BvR) (unid since issue#1 !! -LOGS)
5127.2 7J***: 1833 FEC Figures time stamped (UTC+1) in CBRS mode (MC)
5243 FAR,F 1850 ARQ-E 72b 'UBF...' EXEAT 961 exercise msgs to RFFHCFB/DETECOLTRANS QUATRE EPINAL. (RK)
5315.7 Unid: 2019 108.9bd/170 FSK UNID System, ACF=0 (MC)
5474.5 CSY: Santa Maria Air, AZR 0818 RTTY 50/850 posn relay for flt AEL 710 on circuit MSA. (RB)
5711.5 Apparent LINK-11 transmission at 1614 w/14 pulses. (JH)
5720 RNZAF Data comms (crypto) see 5764 (AB3)
5721.7 MFA Cairo 1815 ARQ poss comms ck with London Embassy (ANEE)
5754 Darwin Meteo, NT, AUS 1127 FAX 120/576 sending wefax. (DW3)
5864.7 USN SIGONELLA (NSY) 1838 FAX 120/576 Weak chart, upper air, Europe/Med. (DW)
5865.2 AOK?: Rota, Spain 0317 FAX 120/576 U.S.N? weather maps (RT2)
6216.7 Unid Egy diplo 1733 ARQ atu a tfc (BvR)
6220 Unid Rig? 1800 ARQ same as 6223.3Mhz, Noble Drilling West Africa (BvR)
6223.3 Rig Tommy Craighead 1740 ARQ personnel list to Portharcort Noble drilling West Africa. Rig Percy Johns 1859 ARQ personnel list. At 0515 ARQ daily drilling report to Noble Drilling West Africa Portharcort. Rig Lewis Dugger 1840 ARQ ww Noble Drilling WA (BvR)
6237.7 Unid: 1800 ARQ Unid sc VKXE (BvR) (EastMed ships logged here before w/comapny msgs -LOGS)
6259.9 Unid: 1849 ARQ sc qspv (BvR)
6263 9HEB4: Mt Sunflower 1628 ARQ tlx to Rotterdam. UGSZ: Mt Kommandarm Fedko 1633 ARQ tlx to Batumi ship 26679 (BvR) DVGJ: M/V Morillo 0102 ARQ w/tlx etd Charleston. UNID: M/V Tai Tai 0242 ARQ w/tlx arr mobile roads. UZSE: 0102 ARQ w/tlx in RR login 55054 uzse. UZSE: TK Adygeya 0110 ARQ w/tlx in RR login 55054 uzse. C4XH: M/V Derby North 0155 ARQ w/tlx to: Piraeus re wx too bad for berthing. (WT)
6264 KHRC: SS Matsonia 0207 ARQ rx only login 11008 khrc. WSLH: SS Maui 0054 ARQ w/qrg rpt after arq sent bursts of clover II for abt 5 min. KDBG: M/V Manoa 0235 ARQ rx only login 11165 kdbg. WLVD: Lurline 2242 ARQ w/qrg rpt. WEZM: SS Ewa 0042 ARQ w/qrg rpt. KNIJ: SS Manulani

0600 ARQ w/svc to: Globe re: software crashed. WEZM: SS Iwa 0230 ARQ w/amver/fr. WEZD: SS Chief Gadao 0053 ARQ w/qrg rpt, login 10867 wezd. (WT)
6265 7TJC: Mourad Diduvche 0735 ARQ LNG/LPG carrier, wkg 7TK24, Boufarik Radio w/tlx re ETA Rade Arzew. UKFV: TKH Novol'vovsk 0810 ARQ w/admin TG from master. (RB)
6265.5 ELIG7: M/V Indian Ocean 0559 ARQ w/bbxx. ZCAQ8: M/V Courtney L. 0517 ARQ w/bbxx. P3HR2: Belgrano 0119 ARQ w/tlx login 56180 p3hr2. ELIG7: MV Indian Ocean 0530 ARQ w/bbxx. (WT)
6267 OWJE: 1744 ARQ Unid mv irs mode ship 85624 (BvR)
6267.5 P3CR6: MK Akademikis Zavaritskis 0406 ARQ w/crew TG's to Riga, is flagged out Latvian vsl. (RB) 3FPN5: 0625 ARQ rx only login 71002 3fpn5. LXDE: M/V Deloris 0222 ARQ tlx via WLO (WT)
6268 ZCBB7: M/V Chiquita Jean 0621 ARQ general cargo vsl, w/BBXX meteo to 'Meteo Washington D.C.' (RB)
6269 LXNF: M/V Nara 0628 ARQ w/bbxx (WT)
6270 KHLD: SS Arco Spirit 0407 ARQ crude oil tanker, w/AMVER, login 10963 KHLD. UNOJ: TKH Dekabrist 0538 ARQ w/tlx re ETA Kuantoan via WLO, login 55736 UNOJ. (RB)
6272 DPEH: M/V Esperanza 0320 ARQ w/ack of tlx sent to vsl. 9HWA4: M/V Grigoroussa 0350 ARQ w/AMVER/PR, ex-C4DU w/login 72050 GRIG. (RB) LJ2H: UNID,NOR 1650 ARQ ending tfc, 32435 LJ2H X, rig/platform ?. (RK)
6274 YLAP: MK Pavel Sternbergs 0602 ARQ w/admin msg to Riga Radio. (RB)
6274.5 SQEE: MV Kopalnia Zofiowka 0157 ARQ w/tlx. (WT)
6283.5 KNCX: SS Chelsea 0636 ARQ w/qrg rpt. (WT)
6303.5 UYUX: TKH Dmitriy Poluyan 2245 RTTY general cargo ship, in 50/170 RYRY/DE to UUI, Odessa Radio, & w/admin TG's from master KM Kovacha. (RB)
6305 Unid: 1857 ARQ Unid Dutch intership comms (BvR)
6309 UANB: MI-0771 MRM/KRH 1840 RTTY 50b 3cyr msgs to UDK2. (RK)
6311 UTSX: TH Valya Kotik 1835 RTTY 50b 3cyr msgs to UAT. (RK)
6325.5 WLO: Mobile Radio, L 1443 FEC temp out of service (RT2)
6325.5 WNU627: Slidell Radio, LA 0015 FEC w/offshore wx (RT2)
6329.5 WOM: Ft.Lauderdale,FL 0251 FEC w/Gulf of Mexico wx (RT2)
6336.3 MGJ: 1641 RTTY 75 RN .... 02d 03b ... (BvR) (Ary sez RN Sub Base, Faslane, Scotland -LOGS)
6336.6 GYA: Royal Navy, London 2305 RTTY 75/850 w/code (RT2)
6348 HWN: Fn Paris 1642 RTTY 75 de hwn ryry sgsgsg (BvR) HWN: FN Paris 1035 RTTY 75b clg "FN" & requesting to QSY. The line ended with the word "DESOLE". (PT)
6362.1 MGJ: Faslane Naval base, Scotland 1800 RTTY 75b/340 CARB (1 channel of an FDM aggregate replacing MTO which has now ceased transmission). (JD2)
6375 RTQGDBCY: TURKISH NAVY 2240 RTTY 75/850 Uses circuit indicator [T12A]. Suggests TN bdcast, possibly for small ships. Istasyonu mentioned - location? To TBDJ - not a Turkish ship - collective callsign? (DW) ("Any Turkish Naval ship" -LOGS)
TBO3: TuNY Izmir,TUR 2130 RTTY 75b DE RTQGDA, T22C 5L msg. (RK)
6417 WLO: Mobile Radio 2035 FEC tfc list (RT2)
6425.3 Unid: 1240 RTTY 75/924 (RT2)
6425.7 Unid: 0215 RTTY 75/850 Strong sig...Russian? (RT2)
6496.4 Unid: 0110 RTTY CWHF Canforce wx. (RT2) (should be CFH: Halifax NS Ca. -LOGS) CFH: Halifax Canada 0951 RTTY 75/850 Canadian Forces Wx (TAF) (CC)
6531.7 Egyptian diplo 1700 ARQ atu a & 5 fgs (BvR)
6536.7 Egyptian diplo? 1820 ARQ atu A tfc (BvR)
6537.7 Egyptian Embassy, Khartoum 1800 ARQ wkg/MFA Cairo (ANEE)
6571.7 Egyptian Emb Roma,I 1810 ARQ to Cairo, req QSY 8055, then req QSY 5035. (RK)
6636.7 Egyptian Embassy, Paris 1700 ARQ wkg/MFA Cairo til 1815 (ANEE)
6681.7 Egyptian Embassy, London 1700 ARQ wkg/MFA Cairo til 1830 (ANEE)
6741.7 PLM Tunisia 0017 ARQ "secret" msg., Tunisian Navy. (ED) (this is TSBF, the Tunisian naval vsl PLM Tunis (502), PLM is Patrouiller Lance-Missiles or Missile Patrol Boat -LOGS)
6779.3 German Navy 0717 VFT: 3ch of 150bd/170 FSK UNID System (spaced 0/700/1400) (MC)
6785.4 MKK: RAF LONDON 0848 RTTY 50/340 Chan.B in vft. RYIs qbf figs "test

de MKK" (DW)
6786 MKK: RAF LONDON 0843 VFT 16 channel DCN interleaved vft on lsb/usb. 4 channels active lsb,6 channels active usb. (DW)
6787.9 MKK: RAF LONDON 0847 RTTY 50/340 Chan.5 in vft. RYIs qbf figs "test de MKK". (DW)
6791.7 MFA Cairo,EGY 1725 ARQ ATU-Ar msg to KDS YPHKG DGMG =London. (RK)
6797.5 Guardia Civil, Cordoba 1345 ARQ w/missing person circular to entire net, followed by jecor (jefe coronel) exterior messages to all Madrid sectors abt another disappeared woman. The andalucia net is on nights on 3267.5. (ANEE)
6820 V5G***: Romanian MFA,Bucharest 1817 164.5bd/400 ROU-FEC, crypto (MC)
6821.7 MFA Cairo 1815 ARQ wkg/Egyptian Embassy, London til 1930 (ANEE)
6836.7 Unid: 0640 ARQ-E3 200/425, idling. (RB)
6837.9 Egyptian Embassy? 0637 ARQ w/5FG's. (RB)
6881.6 Unid: 1807 109bd/170 FSK UNID System (MC)
6915 BAP46: Beijing China 1851 RTTY 75/963 Xinhua Nx EE (AB3)
BAP46: Xinhua Radio, Beijing 1435 RTTY 75 EE nx (EW)
6918 Madrid meteo, E 0048 FAX 120/576 sending wefax. (DW3)
6972 YOG59: Bucharest Romania 1856 RTTY 50/476 Nx EE (AB3)
YOG59: Bucharest Romania 1637 RTTY 50/507 Rompres Nx FF. (CC)
6974.8 Unid: 0321 RTTY 50/400 Unid meteo station. (ED)
7350.7 MFA ALGIERS 1358 COQ-8 26.6 Tfc in ATU80. CQ msg "qry selon tableau 1 Madrid 2 Trp3 Tunis 4 Rqbt." Worked each in turn but emb side not heard thisfreq. Return freq 9118.66? (DW)
7535 AXI36: Darwin meteo 1438 FAX 120 wx map (EW)
7565 YIX75: Baghdad Iraq 1942 RTTY 50/403 INA Nx AA. (CC)
7582 NKW: Diego Garcia Radio 1438 FAX 120 wx map (EW)
7586 RFVITT: FF Dzaoudi Mayotte Island 1436 ARQ-E 96 idle (EW)
7596 5UA: NIAMEY AIR 1834 ARQ-M2 96/400 Ch:A air tfc. Cct [NUA] to Conotou. Ch:B Met tfc. (DW)
7606.7 RFFA: FF Paris Radio 1435 ARQ-E3 100 idle (EW) 0642 ARQ-E3 100/425 w/2 pages of 5LG non-protege tfc on circuit HIJ. (RB)
7648.5 Unid: 0154 FEC 109.5/340 5lg's, Sp. Msg., Cuba? (ED)
7670 RCC76: Moscow Meteo Radio 1432 FAX 120 wx map (EW)
7678.5 HBD20/2: Swiss MFA, Berne 1830 ARQ 5LGs ending "hbd20/2 +?" (MC)
7726.7 MFA Cairo,EGY 1540 ARQ ATU-Ar msgs. (RK)
7736.7 MFA Cairo 1800 ARQ wkg/Egyptian Embassy, Paris w/security office tfc (ANEE)
7746.7 Egyptian R,Rome 1900 ARQ 5LGS and ATU-80 MSGs from Rome (fljk) to Cairo (MC)
7756.7 MFA Cairo 1800 ARQ wkg/Egyptian Embassy, Rome w/security office tfc. (ANEE)
7760 RDH77: Arkhangelsk Radio, R 1430 RTTY 50 ry (EW)
7784 KAWN 0644 RTTY 75/880 USAF Air Wx (AB3)
7808 DFZG: Belgrade Serbia 0634 RTTY 75/405 Serb MFA RY tape. (AB3)
DFZG***: Serbian MFA,Belgrade 0615 RTTY 75/400 "dfzg dfzg dfzg qtc ryry..." then crypto (MC)
7831.3 Unid: 0351 ARQ-E3 96/425 idle. (RB)
7832 AFA2QG: USAF MARS 2137 RTTY 75/170 w/ MARS broadcast 206. (RB)
7894.5 Unid: 0550 ARQ-M2 SPEED? garbled tfc possible call EAWBQA (MES)
7916 DGG91L2: PIAB BONN 1341 FEC-A 96/400 Start up sequence for Europe !qra de DGG91L2 auf 7916,0 khz" andry's, March schedule, then German press for Europe. (DW)
7946 RFVI: FF Le Port Radio, Reunion 1424 ARQ-E 96 idle (EW)
7961.7 Unid: Philippine Military 1001 ARQ EE Mil tfc "de Liberator". (CC)
7980.7 Egyptian Embassy, Israel 1830 ARQ wkg/MFA Cairo til 1915 (ANEE)
7998 RFHJE?: French Navy, Papeete 0735 ARQ-E3 Tahiti, 96/425 w/non-protege tfc to RFFKCTR, shows from as "FM CENTAUE", new one for me. ID? (RB)
8001.7 RFHJ: French Forces, Papeete 0617 ARQ-E3 Tahiti, 96/425 w/CdeV. (RB)
8020 HMF85: KCNA News, Pyongyang 1757 RTTY 50/250 "ryry qra de hmf52/hmf85 freq 11476/8020 kcna" (MC)
8021.3 HMF85?: Pyongyang,N.Korea? 2000 RTTY 50/250 News (RT2)
8022 Unid: Romanian 1519 ROU-FEC 218.3bd/400 crypto (MC)
8023 UNIDEN 1037 FEC-A ??? idled for some time. no traffic no id. off 1051 (EW)
8026.7 Egyptian Embassy, Wash. DC 1745 ARQ comm office wkg/MFA Cairo communications administration office (ANEE)
8028 SNG202: Polish MFA, Warsaw 0731 RTTY 100/500 repeated "ryry...

sng-202 sng-202 sng-202 ryry.." (MC)
8030.3 Unid: 2244 ARQ-E 72/425 idling. (RB)
8030.9 RFFXL?: FF Unifil Naquara, LBN 2258 ARQ-E 72/425, idling, this is only log I found for freq, not confirmed. (RB)
8049 9BC25: Tehran Iran 2105 RTTY 50/692 IRNA Nx EE (AB3)
8056.7 MFA Cairo, EGY 1812 ARQ selcalling XBVP=11105/Roma, tfc. (RK)
8080.5 Spanish Embassy, unk loc 0739 TWINPLEX-1W 100 (200/85), crypto + opchat in SS.(MC)
8088 Unid: Russian? 0631 81-81 81/250 tfc (MC)
8099.3 MFA SOFIA 1022 RTTY 150/500 Bulgarian p/l. Mart = March. (DW)
8135 Unid: German Diplo? 0716 MERLIN 240.1bd 8 tone (MC)
8140 BMF: Taipei Meteo 1330 FAX 120 wx map (EW)
8153.6 Unid: 0747 108.9bd/170 FSK UNID System, ACF=32 (MC)
8182.6 UN/ICRC, Bosnia 0725 PACTOR-1 200/200 txt in FF mentioning "Split, Bosnie" (MC)
8186.4 MSF Lyon?: 1800 PACTOR 200 wkg/Zagreb, chatter abt computer probs. (ANEE)
8192 9MR: Malaysia Naval Radio 1351 RTTY 50 msgs to ships (EW) 9MR: Johor Bahru, Malaysia 1700 RTTY 75b/850 test tape w/9MR 11/15 RMMJ MRB. (JD2)
8249.7 Mv Ioanis 1815 ARQ tlx tfc to Eastern Mediterranean Athens (BvR)
8303 LOR, Argentine Navy, Puerto Belgrano, ARG 2315 RTTY 75b w/immediate tfc, 5LG's.(PP) LOR: Buenos Aires 0701 RTTY 75/184 PP Maritime tfc. (AB3)
8330.7 RFVI: FF Le Port Radio, Reunion 1352 ARQ-E3 100 idle (EW)
8341.7 RFHI: FF Noumea Radio 1345 ARQ-E3 100 idle (EW)
8361.7 Unid: 1906 ARQ sc tvvm tvxp tvxk tvqk tvvc txvv tvxq tvqm (BvR)
8361.8 Mv Gnik 1136 ARQ x ship 00019 mgs to mv?? Voyager (BvR)
8377 3EYB6: MV Kudu 1624 ARQ msg to GKE/Portishead for ETA Cristobal from Capt Matsumoto login 42577 3EYB6. (HOOD) UUXS: MV Volkhov 1430 ARQ msg to GKE, 55432 UUXS X. J8ED6: TH Kolkhida 1500 ARQ msgs to GKE for RDO BTM, WRU-ID 23302 J8ED6 X. UJUA: MT David Guramishvili 1600 ARQ msg to MORFLOT Batumi via Portishead, 55313 UJUA X. (RK)
8377.5 C6NJ4: Cascadian Dawn 0158 ARQ w/tlx. WEZD: SS Chief Gadao 0648 ARQ w/amver/pr 3643N 14539E. WLBX: L.H.Gianella 0600 ARQ tlx via KFS (WT)
8379 VTRG: M/V Prabhudas 0435 ARQ w/BBXX wx obs to 'Meteo Washington'. (RB) UZXU: TK Geroi Sevastopolya 1905 ARQ 3cyr SVC msg, 55145 UZXU X. (RK)
8379.5 SVMW: MT Parapola,GRC 1925 ARQ AMVER msg, 16976 PARA X. (RK) 7KXF ?: Kurotakisan Maru 0819 ARQ w/jasrep/fr (WT)
8380 C4QP: MV Smyrna,CYP 1920 ARQ berthing msg, 27514 SMYRNA. (RK)
8380.5 VVKF: SPIC Emerald,IND 1655 ARQ msgs, ETA La Sikira, 23606 VVKX X. (RK) UNID: Capitan BT Ancud?? 0200 ARQ w/tlx in ss login 19031 ancd. CBAN: Andesgas 0834 ARQ tlx in SS. (WT)
8381 OWJP2: Elisabeth Clipper 0110 ARQ tfc in Danish. (AB2) C6CP: M/S Viking Serenade 0255 ARQ rx only selcall 61519. WXWL: M/T Deleware Trader 0617 ARQ w/tlx arr nor LA. login 11172 wxwl. (WT)
8382 ESIA: TH Kabala,EST 1825 ARQ selcalling PCYV=5670/ESA, msg, 54537 ESIA. (RK)
8382.5 Z_CH6: M/V Ice Flake 0634 ARQ w/tlx for registering w/KPH, login 319038000 ICFL. UWTB: TKH Akademik Guber 0645 ARQ w/DISP-1 report from master KM Grinenko to Mariupol Radio. (RB) UZHD: MV Nikolay Morozov,UKR 1630 ARQ msgs, 67855 UZHD. LXNF: M/V Nara 0148 ARQ wx obs. (WT)
8383 9HWH4: MV Stavroula,MLT 1850 ARQ selcalling XYVF=1780/Athinai, msg. (RK)
8383.5 EPDL: Mv Iran Jahad 1711 ARQ tlx tfc. T2CD: Mv Multitank Armenia 1543 ARQ tlx to Hamburg (BvR)
8384 WMLG: MV Tyson Lykes,USA 1640 ARQ msg, 11700 WMLG X. (RK)
8384.5 UWKX: Kapitan Ostashevskiy 0029 ARQ tfc to Boston, maritex ID 26086. (AB2)
8385 UZEG: Mv Parfentii Gretchanyi 1728 ARQ tlx to Odessa. UBGR: Mv Andrey Lavrov 1735 ARQ ship 54648 sc xckm (BvR)
8385.5 UJGO: Mt Marshal Vasilevskiy 1821 ARQ tlx tfc. ENPP: Ms Kapitan Samoilenko 1556 ARQ tlx to Hamburg eta Riga 230300 ship 55583 (BvR)
8386 IBYC: Jolly Rubino,I 2105 ARQ selcalling QVYV=2070/IAR, msg. (RK) KHLD: SS Arco Spirit 1843 ARQ in opr mode asking for qsl. login 10963 khld. (WT)

8386.5 PPST: Londrina 0824 ARQ rx only. login 73000 ppst. (WT)
8387 UNID: 0450 ARQ w/tlx in ?? login 06371 owdx2 (WT)
8388.5 PGDS: TR Nedlloyd Honshu,HOL 1635 ARQ POS msg, 36532 PGDS X. (RK)
8390 5LPH: M/V World Wood 0540 ARQ w/tlx login 29360 5lph. C4XH: M/V Derby North 0646 ARQ w/tlx to: Klomar ship supply. login 29323 dnorth. SFMY: M/V Tosca 2352 ARQ w/tlx login 26115 tosca. (WT)
8390.5 P3PC3: M/V Iktinos 1612 ARQ w.tlx for ETA. (RB)
8391 TCKT: Mentese 1526 ARQ tfc in unid language. (AB2) WSLH: SS Maui 0455 ARQ in opr mode. P3LT5: M/V Velos 0459 ARQ w/tlx login 00598 p3lt5. (WT)
8391.5 ELRE3: MT Kemeri RG,LBR 1650 ARQ msg, 24676 ELRE3, QRC CY05. (RK)
8392 ELGF3: M/V EWL Rotterdam 0348 ARQ w/sailing report, sailed Cabello, login 24985 EWLRDAM. WUBV: SS Jean Lykes 1558 ARQ w/tlx tfc. (RB)
8392.5 ELNJ5: TK Nagatino 0247 ARQ Liberian flagged tanker w/crew TG's to Novorossiysk Radio, login 24472 NAGA, appears this is ex-UNWJ, TK Nagayevo. ELNJ4: TK Izmaylova 0325 ARQ w/NVRTLG+ crew TG's to Novorossiysk Radio, is ex-ULQZ. (RB)
8393 BPFH: Jian She 8 1438 ARQ msg ck. (AB2)
8394 UNID: M.T. Ohio 0517 ARQ w/tlx's login 56125 ohio. (WT)
8394.5 ESJS: RTMA Tavrida 0605 RTTY in 50/170 crew TG's to Sevastopol rdo. (RB)
8395.5 EOZK: TR Molodaya Gvardiya 0611 RTTY in 50/170 RYRY/DE to URL, then w/RR admin TG from master KMD Bondarenko. (RB)
8397 UCBW: RTMS Nikifor Pavlov 2129 RTTY in 50/170 crew TG's to Novorossiysk Radio. (NVR/KRH) (RB)
8397.5 3FIR3: TR Baltiyas Cels 2353 RTTY in 50/170 crew TG's. (RB)
8398 EAJD: Las Palmas de Gran Canaria 0415 ARQ a Spanish passenger vsl, in ship to ship comms, auto login showed ID of 08646 EAJD. (RB)
8398.5 TCSX: Marine Pacer 0047 ARQ tfc in Turkish, selcall 29054. (AB2) Mv Pal Marinos 1251 ARQ tlx to Greece eta Sheerness 16/03 pos 003 5e 31 4n (BvR) (Pal Marinos is P3SZ5 -LOGS)
8399.5 UVPH: TKH Syzran 0135 RTTY in 50/170 RYRY/DE to "UWY" (Odessa?) & into crew TG's to Odessa Radio. LYAB: Zarya Oktyabrya? 2206 RTTY in 50/170 RYRY/DE to LYL, no joy, also have this c/s listed as Narvos Ilanka. UNGK: BMRT Sverdlovsk 2333 RTTY in 50/170 crew TG's to Kaliningrad rdo (KLD/UTF), this is the ex-LYHR. (RB)
8400 Unid: 1752 ARQ intership comms Dnk or Nor (BvR)
8400.5 UGVJ: RTMS Novochebokarsk 0938 RTTY 50/170 crew TGs to UIW/Kaliningrad. (HOOD) USYQ: PB Baltiyskaya Slava, RUS 1700 RTTY 50b 3cyr msgs to UIW, KLD/MRH. (RK)
8401.5 UCBD: BMRT Kronshtadt 1531 RTTY in 50/170 admin TG's from master KM Marichev to Murmansk using hull#/ID MB-0356, is ex-UUOV. ESMS: RTMS Meriski 2044 RTTY 50/170 stern trawler w/RYRY/DE to UIW, & w/Fax msg to Tallinn from master Achistyakov using hull#/ID RTMS-7583, vsl owner by Deep Sea Trawlers Ltd, Tallinn. UTOK: TKH Akademik Evgeniy Paton 2055 ARQ w/DISP-1 reports to Odessa Radio from master KM Guskov. UTSW: RTMKS Kapitan Orlikova 2114 RTTY in 50/170 crew TG's to Ilichevsk Radio. UOLZ: TSM Kaluga 2313 RTTY in 50/170 RYRY/DE to UIW, Kaliningrad rdo, & into crew TG's, TSM is a Trauler Srednyj Morilzhnyj, or medium freezer trawler. UGAA: Unid SA-0597 2316 RTTY in 50/170 crew TG's to Kholmsk (HLM/MRH), may have used name "Sabaptou" in tfc, along w/hull#/ID SA-0597. (RB) URPK: TH German Matern 0245 RTTY 50/170 w/tlgs. (WT)
8402 ULTY: TR Baskunchakskiy,RUS 1616 RTTY 50b msg to Ireland. URID: BMRT Zvezda Chernomorya,UKR 2000 RTTY 50b 3cyr msgs KR4/MRH. (RK)
8402.5 UKKG: Unid 2209 RTTY in 50/170 "SGP Atlantika" wx report, off w/DE UKKG. UVHZ: Demyan Korotchenko 2233 RTTY in 50/170 crew TG's, is ex-ESRV. (RB) UVWU: TH Sevan ODS,UKR 1840 RTTY 50b 3cyr clg UUI and msgs. (RK)
8403.5 UYYC: BATM Anatoliy Gankevic 2047 RTTY -h, in 50/170 crew TG's (SVS/MRH). UWPR: TKH Karl Liebknekht 2048 RTTY 50/170 (ODS/UMF) w/RYRY/DE to UUI, & w/crew TG's to same, Odessa Radio. UZNV: RKTS Konstrukor Koliv 2117 RTTY in 50/170 RYRY/DE to, URL, Sevastopol Radio, & w/admin TG's from master KM Kazurov. (RB)
8405 UCSA: RTMS Eysk 1902 RTTY in 50/170 crew TG's to Novorossiysk. UCBZ: BMRT Atoll 1920 RTTY in 50/170 crew TG's to Novorossiysk Radio. (NVR/MRH). (RB)
8405.5 UIMH: TR Tambov 0018 RTTY in 50/170 crew TG's to Murmansk. (RB)

8406 UTZF: TKH SUETS 2034 RTTY 50/170 RYRY/DE & w/"PROK-1" reports to Odessa Radio, other admin tfc from KM Rudenko. (PP)
8406.5 UNNL: BMRT Zvezda 2041 RTTY in 50/170 crew TG's to Kerch Rdo (KRCH/MRH). (RB)
8407 UTQM: Pioner Nikolaeva 0505 RTTY 100/170 w/tlg's. (WT)
8407.5 UALV: RTMS Kulikovo Polye 0930 RTTY 50/170 with svc msg to Murmansk Sevryba from Km Smirnov via UIW/Kaliningrad. (HOOD) EUHG: TR Kukotskiy Bereg 2107 RTTY in 50/170 crew TG's (VLD/VTF). UEMP: RTMS Malta 2202 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's using hull#/ID RTMS 7563, is ex-LYEB. (RB)
8408.5 P3AX6: TR Anton Gurin 2039 RTTY in 50/170 crew TG's. UWOC: TKH Kapitan Modest Ivanov 2312 RTTY in 50/170 admin tfc to Odessa Radio, vsl bound Port Beira, Mozambique. (RB)
8411.5 UAMD: NPS Zund 0048 RTTY in 50/170 crew TG's to K-grad, is Ex-EWVV. (RB)
8413 UQRT: TKH Il'ya Ul'yanov 0618 ARQ sending tfc via UGC, St Petersburg Radio for UOUW, TKH Novoaltaysk, crew TG's. UEUA: TKH Boris Zhemrizhin 2327 ARQ w/crew TG's to St Petersburg. (RB)
8417.5 KFS: Palo Alto, CA 1740 FEC ships traffic w/college hoops tfc (RT2)
8420 WLO: Mobile Radio, AL 2310 ARQ w/sports & NYSE (RT2)
8433 XSG: Shanghai R.,CHN 1940 ARQ w/CW ID "XSG". (RK)
8435 VCT: Grand Banks R. NF,CAN 1905 FEC tfc list CQ DE KFS/WNU/VCT/KEJ/SAB/ZLA. (RK)
8476 FUF: 0543 USB RTTY 75b Mainly in idles (MES) FUF: Le Port, Reunion Island UTC? RTTY 75b w/test tape: RYs/SGs/VVV VVV VVV DE FUX FUX FUX (MS4)
8478.5 FUF: FNY Fort de France,MRT 1935 RTTY 75b RY DE FUF. (RK)
8500 UON: Baku Radio 1927 RTTY 50/170 msg to TK Shamakhy (4JGA) for Km Mahmudov. Vsl is ex UHZC. (HOOD)
VTH: Bombay, India 1800 RTTY 50b/850 test tape w/VTH 5/7/9 RBSL BNR RY's & SG's. (JD2)
8538 6WW: Dakar, SEN 1815 RTTY 75b/850 test tape, "Fox", RY's & SG's.(JD2)
8626 GYU: RN Gibraltar,GIB 1545 RTTY 75b MANUAL CARB 08A 12A GYU. (RK)
8642.1 MGJ: Faslane Naval base, Scotland 1800 RTTY 75b/340 CARB (1 channel of an FDM aggregate replacing MTO which has now ceased transmission). (JD2)
8810.7 Egyptian Embas: sy, Unid loc. 2240 ARQ 100/425 w/ATU-80 tfc. (RB)
8876 MFA PYONGYANG 1936 RTTY 50/1000 Tfc in offline encrypt (5FG's) & N Korean text. Freq slowly drifting up 8875.81 to 8876.10 (DW)
9041 5YE: Nairobi Kenya 1531 RTTY 100/850 Meteo (AB3)
9055.2 DOR***: Bulgarian MFA, Sofia 1821 RTTY 75/500 "pmo pmo pmo zry 11164" msg acks to Washington DC (MC)
9065 GYU: RN GIBRALTAR 1040 VFT DCN 8chan interleaved vft on USB. (DW)
9066.4 GYU: RN GIBRALTAR 1115 VFT Chan4 in vft, on line encrypted, ACF7.(DW)
9066.9 GYU: RN GIBRALTAR 1043 ARQ-M2 96/340 2 chan tdm, 4crc. Chan:A and B betas.No tfc. (DW)
9067.6 GYU: RN GIBRALTAR 1120 VFT Chan 7 in vft. Unid mode 170bd syn, 85bd async. ACF99. (DW)
9090.5 Italian MFA, Rome 0806 ARQ 5LGs "da maeroma" to various Emb/Cons (MC)
9107 Romanian Embassy, loc? 0640 ROU-FEC 218.3bd/400 crypto (MC)
9130 MGJ Faslane? UK. 2030 RTTY 75/850 RN availability message. (freq previously occupied by MTO and GYA - New station on the freq or same station with new callsign ???) (AB3) (see Ary's Digital column this month -LOGS) MGJ: RN Faslane,G 1710 RTTY 75b QSX mkr. (RK)
9145 Italian MFA, Rome 0758 ARQ-E 96bd/170 5LGs to many european embassies. (MC)
9154 D4B: Amilcar Radio, Cape Verde 2246 RTTY 50 ry. poor signal but definite id.first time heard. 10730 miles away! (EW) D4B: Sal Cape Verde Is. 0545 RTTY 50/867 RY (AFTN cct to Santa Maria). (CC)
9155.5 Unid: French Diplo? 1830 TT2300b 100bd (MC)
9179.5 HBD20/1: Swiss MFA, Berne 1700 ARQ 5LGs ending "hbd20/1 +?" (MC)
9204.9 Unid: Russian PTT, 1545 OQPSK 1280bps (MC)
9226 UNID: 1250 VFT Two channel piccolo vft on USB. (DW)
9226.5 UNID: 1252 PICCOLO Eng channel in vft. Idle. (DW)
9265 Russian Diplo 1600 CROWD-36 (MC)
9318 NRK: Usn Keflavik 1805 FAX 120/576 sat pic (BvR)
9322.8 RFFXI: French Forces Bangui 2143 ARQ-E 72/425 on circuit XZI (Bangui to Verseilles) on this priv unk freq, thanks to Day Watson for the

ID. (RB)
9323 RFFXI: FF BANGUI 2348 ARQ-E 72/400 Betas. Cct [XZI]. Header "~~FEDCS de RFFXI" tfc in French.SVC with text ".zic xzi059 zid xxi054" (last sent last received). (DW)
9329.4 VNA: VNA news Hanoi, Vietnam 1241 RTTY 50 EE news (EW)
9340 UZB: Tashkent Meteo Uzbekistan 1218 FAX 120 very good wx map (EW)
9983.2 Unid: 1549 ARQ sign-off "20040 cdpdl $" (MC) (cud be CSP-40, Portuguese State Police -LOGS)
9994 CSY: Santa Maria Azores 1753 RTTY 50/850 AFTN traffic (AB3)
10031.7 EGYPTIAN EMB SANTIAGO 2038 ARQ Tfc to Khargia Cairo in offline encrypt. (DW)
10117 BAF 4: Beijing Radio 1045 FAX 120 wx maps (EW)
10129 RBX73: Taskkent Meteo Radio 1422 RTTY 50 wx rpts (EW)
10132 TNL: Asecna Radio, Congo 2224 RTTY 50 wx. hdr fsa 456 metar rpts etc. (EW)
10154.3 DOR***: Bulgarian MFA, Sofia 0649 RTTY 75/500 Call-up "olg olg olg qap" then into ASCII-ARQ (MC)
10158 MFA SOFIA ? 1410 CW also 75bd RTTY, 300bd IRA-ARQ? /CW. Hrd only AG9C, working CW. with2IB1, IAT5, 2MBT. (DW)
10160 V5G: MFA BUCHAREST 2003 ROU-FEC 164.5/400 Tfc on line encrypted. (DW)
10170.3 UNID: 1240 RTTY 50 wx rpts no id but definitely Asia (EW)
10170.5 Unid: 1301 RTTY 50/170 meteo, no ID. (ED)
10171 Unid: Russian PTT 0625 OQPSK 1280bps UNID System (MC)
10175 UNHCR Nema, Mauritania 1300 ARQ wkg/Nouakchott w/three convoy coordination msgs (ANEE)
10211.7 MFA Cairo 1600 ARQ w/unid Embassy til 1645 (ANEE)
10213 CNM29: MAP News, Rabat 1720 RTTY 50/400 NX in French (MC)
10215 HZN: Jeddah Air Radio, Saudi Arabia 1230 RTTY 100 many wx reports (5 lg's). (EW)
10250 MADRID MET 1048 FAX 120/576 Tropopause chart for N and S Atlantic, Europe, Africa and S America. (DW)
10281 RFLI: Fort de France Martinique 0735 ARQ-E3 196/400 Fr Forces Idles (AB3)
10298.7 HSW61: Bangkok Air Radio, Thailand 1237 RTTY 50 wx rpts (EW)
10384.4 5YE: Nairobi Radio, Kenya 1242 RTTY 50 wx reports (5LG's). (EW)
10391.7 Egyptian Emb, loc? 1541 ARQ 100/170 5LGs and ATU-80 "jg cfkydp kds kdjfkqor" (MC)
10410 KUL: Moscow Russia 0715 RTTY 75/400 "Brotherhood" KUL/646464 tape closed at 0720 (AB3) (Ary sez this is SOUD Moscow with a msg TO KUL -LOGS)
10412 RFFXL: FF Naquora Radio, Lebanon 1419 ARQ-E 72 idle (EW)
RFFXL: FF Naqoura,LBN 1200 ARQ-E 72b 'XZL...' 5L BBBB msg. (RK)
10415 SNN299: Polish MFA, Warsaw 0709 RTTY 75/225 "cq1 snn299 warszawa" and MFA computer MSG listings (MC)
10422.5 Unid: 0708 ARQ-S GG text then cipher. (CC) (probably MFA Vienna here in this mode -LOGS)
10423 YMA20: Ankara Meteo Radio, Turkey 1407 RTTY 50 wx rpts (EW)
10491.7 MFA Cairo 0815 ARQ w/unid Egyptian Embassy 5lgs, no ident whatsoever-abnormal (ANEE)
10493.7 RFTJF: FF Port Bouet, Ivory Coast 2334 ARQ-E3 48 idle no id (EW)
10521.7 RFLI: FF Martinique 2336 ARQ-E3 192 idle CdeV at 2341 (EW)
10535.8 CFH: Halifax Naval, Canada 1432 RTTY wx and traffic (RT2)
10551.3 GFL23: Bracknell Meteo, G 2057 RTTY in 75/425 meteo reports. (RB)
10600 VNA: News Radio, Hanoi 1407 RTTY 50 FF news (EW)
10615.5 Unid: 0740 VFT 2ch of Piccolo-6, eng. ch idle (MC)
10615.9 Unid: 0741 VFT 2ch of Piccolo-6, crypto tfc (MC)
10686 9DM17: Teheran Meteo Radio, Iran 1445 RTTY 50 wx rpts (EW)
10692.5 Abuja, NIG 1640 ARQ sx En tfx, msg FROM: PUBLIC AFFAIRS DEPARTMENT NECON HQRTS.ABUJA TO: ALL PUBLIC B AFFAIRS S.. (RK)
10749.3 C37A: MOSSAD Tel Aviv 1404 ARQ-E 288 encypted text (EW)
10801.7 Unid 1611 ARQ s/off with bekliyorum@@@ zzz zaza (BvR)
10847 NAM: Norfolk,VA 1913 FAX 120/576 wx map (RT2) (now NAA in Cutler, Me -LOGS)
10873.7 RFVI: FF Le Port, Reunion 2226 ARQ-E3 100 idle no id (EW)
10890 GXQ: RN LONDON 1958 VFT 8 channel DCN interleaved vft on USB. Channels 1 and 2 idle. (DW)
10891.2 GXQ: RN LONDON 2001 VFT Channel 2 w/RTTY 50/340 in vft. RYI's, qbf figs "test de GXQ". (DW)

10891.4 GXQ: RN LONDON 2004 VFT Channel 3 w/RTTY 50/340 in VFT. RYIs, qbf figs "test de GXQ". (DW)
10912 SNN299: Polish MFA, Warsaw 1731 POL-ARQ 100/230 5LGs (MC)
10918 RFTJ: Dakar Senegal 0725 ARQ-E3 48/400 French Forces - Idles (AB3)
10946.4 CFH: Halifax Naval Radio, Canada 2035 RTTY 75/850 Canforce (RT2)
10955 UNID: 2348 ARQ-E 48 idled for over an hour no id no tfc. (EW) (RFTJF Port Bouet, IC -LOGS)
10962.2 FKW: FAF Sarajevo, BIH 1700 ARQ-M2 200b 'FKWB...' FPL msgs. (RK)
10971 HBD20 Berne 1222 ARQ 5lg's. (ED)
10980 RDD79: Moscow Meteo Radio 1401 FAX 90 wx map (EW)
11017 RPFN: PNY Monsanto,POR 1500 RTTY 50b TQBF/RY/SG clg RPTI DE RPFN. (RK)
11030 AXM34: MELBOURNE MET 1450 FAX 120/576 Text - current warning issued by Darwin RSMC - contains Advice of gales issued by Tokyo. 500 hpa fcst chart. Has note "Update - 1March 1996 - new schedule starts 5 March - check 0045 UTC notic (DW)
11034.7 Egyptian MFA, Cairo 1638 ARQ ATU-80 MSGs to Abu Dhabi, Doha, Beirut, Tunis. (MC)
11044.6 P6Z: MFA Paris, France 1950 FEC-A Idling (RT2)
11105 BELGIAN EMB CAIRO ? 0750 VFT 6028 "Barry" type vft with 6 of 7 possible channels (ch:2 missing). (DW)
11106.8 BELGIAN EMB ? 0745 Ch.4 w/RTTY 100/170 in 6028 type vft. vri weak sigs. Odd snatches of off-line encrypted tfc & page numbering. At 0752 Chan:4 w/RTTY 100/170 in VFT. Tfc in offline encrypt (5LG's) in pages eg "Page 10". Header " pr kairo sleulel 25 3.96 ambabel nairobi a belexthbru 225 van 22 3.96. code" then encryption (DW)
11109.5 Saudi National Guard, ARS 1609 ARS-GUARD 125/120 ACF=48 or 96.(MC)
11119 USAF AWS Omaha NE 2001 RTTY 75b sending wx reports. (DW3)
11164 MFA SOFIA ? 1103 RTTY 75/400 Operator exchanges. Sends msg opening 5LG's then"bdbdbdb" string thereafter online encryption. Offair. (DW)
11414.8 Unid: 0658 TT2300b 100bd idle (MC)
11421.7 Unid: Chinese Diplo? 1604 4+4 (MC)
11428.8 Unid: 1410 RTTY 50/225 'I' Marker (RT2)
11456.5 Unid: 1213 PSK 2400bps UNID System (MC)
11467.7 Egyptian diplo 1730 ARQ atu a tfc (BvR)
11485 AOK: Usn Rota 1525 FAX 120/576 surface pressure fnmoc 96 h fcst (BvR)
11500.6 Unid: 1810 RTTY 75/850 Sense Rev? (RT2)
11536.5 German Diplo? 1025 RS-ARQ 228.5 cannot decode (EW)
11551.7 MKK: Royal Air Force, London 0701 VFT 16ch of 50bd/170 Baudot, "iryiry.... test de mkk" DCN (MC)
12065 VHC: RAN BELCONNEN 1704 VFT Two channel piccolo vft on USB. (DW)
12065.5 VHC: RAN BELCONNEN 1707 VFT Eng chan w/Piccolo in vft. "1710z GFH de VHC rg zuj kkha2". "1713z GFH de VHC ga on f4 f4 f4 kkha2". "1714z GFH de VHC int last ??? kkha2". "1751z GFH de VHC rgrgr xm will pass to g kkhz2". (DW)
12065.9 VHC: RAN BELCONNEN 1705 VFT Piccolo channel in vft. On line encrypted. (DW)
12098.1 Unid: 1925 RTTY 75/870 Sense? (RT2)
12125 SNN299: Polish MFA, Warsaw 1547 POL-ARQ 100/250 Press review in Polish (MC)
12138.2 DOR***: Bulgarian MFA, Sofia 0701 RTTY 75/500 "gub pse zal 10246" call-up for Emb. Damascus (MC)
12152 GXQ: RN LONDON 1259 VFT DCN 8 channel interleaved vft on usb. (DW)
12152.5 GXQ: RN LONDON 1338 VFT (Eng) channel 1 w/RTTY 50/340 in vft. Idle. At 1502z "de GXQ plse to qsy the yels to the 7770 zub 1502z" (7770 is a GYU frequency). (DW)
12152.7 GXQ: RN LONDON 1302 VFT Channel 2 w/RTTY 75/340 in vft. ACF7. Online encrypted. (DW)
12153.4 GXQ: RN LONDON 1305 VFT Channel 4 w/RTTY 75/340 in vft. ACF7.. On line encrypted. (DW)
12153.9 GXQ: RN LONDON 1308 VFT Channel 5 w/ARQ-M2 96/340 in vft. TDM 2 chan 4CRC. Chan A: idling on figshifts/linefeeds. Chan B: idling on betas/#'s. Poor sync. (DW)
12154.1 GXQ: RN LONDON 1317 VFT Channel 6 in vft. Active - speed/mode indeterminate. (DW)
12154.6 GXQ: RN LONDON 1323 VFT Channel 7 w/ARQ-M2 96/340 in vft. TDM 2 chan 4crc. Ch A:. Met tfc. Chan B: alphas. Chan A suggests, with much EGRR/Bracknell originated tfc station is MKK or GXQ to GYU. (DW)

12165 RKB: Moscow 1830 FAX 120/576 meteo wx chart (BvR)
12190.2 MFA SOFIA 0950 RTTY 150/500 Diplo news in Bulgarian p/l, // 8099.2?. Followed by EE news. (DW)
12196 SOUD STN: 1455 RTTY 75/500 Tfc in offline (5LG's) encrypt. Headers "11177 00125 19468 01283 01969". (DW)
12218 MFA SOFIA ? 0805 IRA-ARQ 300/400 Encrypted tfc. ACF11. 24 character bursts. Each burst starts with character "m" irrespective of parity setting. (DW)
12228.4 BZR62: XINHUA BEIJING 1508 RTTY 75/400 English press. (DW)
12236 Unid: UN? 0717 PACTOR-U 200/200 operator chatter in EE (MC)
12250 Italian MFA, Rome 1428 ARQ-E 96/170 5LGs "da maeroma" "tx ambvars". (E. Warsaw) (MC)
12308 Unid: German Diplo? 1523 MERLIN 228.7bd/170 tfc (MC)
12469.7 MFA Cairo,EGY 1640 ARQ selcalling TVVQ=00002. (RK)
12478 5BUF: M/V Jodie D. 2101 ARQ cargo ship, w/tlx re ship repairs completed during voyage, login 00574 5BUF. (RB) KNIJ: SS Manulani 0202 ARQ svc to: Globe W. GE crashed, had to reboot windows, lost all files. (whats new buddy?). ELOE9: M/V DSR Rostock 2348 ARQ w/tlx 3753N 14550W. WLVD: Lurline 2220 ARQ w/svc to: GLOBE reporting system crash. IBPI: M/V Raffaele Iuliano 2233 ARQ w/amver/pr 3703N 15044W. (WT)
12479 C6KY5: Zim Santos 1657 ARQ AMVER/PR 25.46N/80.05W. (AB2) 9HLP3: M/V Mediteran Frigo 2053 ARQ w/crew TG to Philippines, login 26460 MEDFRI. PESF: Holland Clipper 2102 ARQ w/AMVER/PR, login 81755 PESF. (RB)
12480 WJLP: SS Solar 0102 ARQ wkg unk shore stn. (JEB)
12480.5 3FVB4: TR Frio Adriatic 0127 ARQ reefer, w/tlx to Frio Antarctic. UODD: M/V Beloostrov 1824 ARQ "Lo/Ro" vsl SVC+ msgs to St Petersburg Radio. SVZI: M/V Pal Falcon 2122 ARQ w/tlx to Square Ltd, Piraeus. (RB)
12481 ELEV8: Lircay 0115 ARQ w/tlx. (WT)
12482 3FLN3: M/T Nereo 1649 ARQ w/AMVER/PR. J8FK6: M/V Biograd 2126 ARQ w/tlx to 'Plovidba Sibenik', vsl bound Long Beach, Portland & Vancouver. BPEZ: M/V Hua Nan 2337 ARQ Chinese flagged cargo ship w/tlx for ETA Balboa, login 20236 BPEZ. (RB) WRK5847: Coast Runner 1917 ARQ w/msg about getting dodger tickets? (WT)
12483 9GYS: M/V Volta River 1820 ARQ w/tlx for repairs done to ship/repairs completed. WEHV: SS Overseas Alaska 2148 ARQ w/tlx re film crew to be on board. KNCX: SS Chelsea 2235 ARQ w/tlx for ETA Lake Charles, departed Port Everglades, login 10725 KCNX. (RB) WXBZ: M/T Potomac Trader 1829 ARQ w/qrg rpt login 11180 wxbz. (WT)
12486.5 KNLO: SS Manukai 1840 ARQ w/bbxx (WT)
12487 3EJO9: MSC Maria Laura 1730 ARQ w/tlx for ETA Cape Fear. (RB)
12487.5 EAFI: bulker Juana Tapias 1153 ARQ psn rpt with ETA for Novorossiysk. (HOOD)
12488.5 C6BP9: MV Forest Hills 1151 ARQ with ETA for Hampton Roads login 29496 FHILLS. (HOOD) LXVC: M/V Crystal Privilege 1737 ARQ w/ship info to RFL/NZ after sending selcall QSPV, SAB, Goteborg Radio, login 29066 LXVC. (RB)
12490.5 YQEP: M/V Birlad 0223 ARQ w/tlx (WT)
12493.5 J8KS6: M/V Oris 0013 ARQ w/posn tlx, 5306S/07032W. (RB)
12495 EOIW: Sergey Lemeshyev 1615 ARQ crew TG's. (AB2)
12496.5 LCRA?: M/N Libra Rio 2338 ARQ w/SS tlx via Valparaiso Radio, c/s may have been LCWF, this is ex-Nacional Rio, PPWF, login still 01000 NACRIO. (RB)
12497.5 SQGX: RQ M/V Atol 0115 ARQ cgo lst to "Szina Portnova". (JEB)
12501.5 P3LZ4: M/V Amani 0029 ARQ w/tlx in ?? login 56373 amani. (WT)
12502 3EAW7: M/V Pacific Rider 2350 ARQ w/tlx eta Cristobal. (WT)
12503 LCAL?: M/V Bel Azur 2204 ARQ w/tlx to Oldendorf Asia, login 02754 BELA. (RB)
12509 P3EJ4: M/T Ohio 0103 ARQ w/SHIPREP/ PR (AMVER), posn 1226S/07758W. KNIJ: SS Manulani 0113 ARQ container ship, w/BBXX wx obs. (RB)
12509 P3LT5: M/V Velos 0213 ARQ rx only login 00598 p3lt5. (WT)
12510 P3GR3: M/V Filoktitus 0110 ARQ w/tlx eta Lagos. SVZI: Pal Falcon 0037 ARQ w/tlx. (WT)
12523 P3CR6: MV Akademikis Zavarickis 1135 ARQ with svc msg. login 00501 ZAVA .Vsl is ex YLDA. (HOOD)
12534 EWAH: TR Mashal Malinovskiy 0110 RTTY 50/170 RR TG's to Vladivostok.

(JEB)
12560 J8LU6: TKH Vitaliy Federov 2026 RTTY in 50/170 RYRY/DE, & into crew TG's. (RB)
12561 DQFV: M/V DSR-America 1645 FEC w/list of ships, posn's & status, including non-DSR vsl's. (RB)
12561.5 UNNI: RTMS Chernyashev 1620 RTTY in 50/170 crew TG's (KLD/MRH). UTYZ: TKH Kremenchug 1654 RTTY in 50/170 crew TG's to Odessa Radio & w/same for ELSK3, TKH Deputat Latskiy & ENUR, TKH Stakhanovets Petrach abbrev as St Petach. (RB)
12562 UOMC: BATM Tuman-2 1805 RTTY in 50/170 crew TG's using hull#/ID BATM-0274 (SPB/KRH). UOUV: TKH Novodruzhsk 2034 RTTY in 50/170 tfc being sent for UOUW, TKH Novoaltaysk to St Petersburg Radio. (RB)
12562.5 UHIV: RTMA Al'ma 1700 RTTY in 50/170 crew TG's to Odessa Radio. (RB)
12563 UVJO?: MA-1832 1556 RTTY in 50/170 admin tfc to Murmansk Tralflot from master KM Mikhaina, may have used c/s UVJO in msg. UCBD: BMRT Kronshtadt 1606 RTTY 50/170 (MRM/KRH) RYRY/DE to UDK2, & into TG's to Murmansk using hull#/ID MB-0356, is ex-UUOV. UUIV: RKTS General Petrov 1658 RTTY in 50/170 crew TG's to Sevastopol Radio (SVS/MRH). (RB)
12563.5 UIMY: RTMA-Peredov 0640 RTTY 50/170 RR Fish catch rpt. (JEB) USLB: RTMA Orlinoe 1725 RTTY in 50/170 crew TG's to Sevastopol (SVS/MRH). P3BJ6: Tai Tai 1801 ARQ w/tlx to Agencia Maritima Mexicana Veracruz for 3 day notice, login 29456 TAI. (RB)
12564 UTSS: TB Yarkiy Luch 1755 RTTY in 50/170 RYRY/DE to UIW, & w/crew TG's to same. (KLD/UTF) UFXV: PPR Navigator 1837 RTTY in 50/170 RYRY/DE to UDK-2, into crew TG's using hull#/ID MA-0828, this is the ex-ESXD. (RB)
12564.5 USJZ: PB Sergey Vasilisin 1335 RTTY 50/170 wkd UDK2 crew TGs and OBS rpt (to MURMANSK POGODA) from Km Podgayskiy. (HOOD) UALY: RTMS Zvezda 1647 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's to same, K-grad, c/s was URRD. USJZ: PB Sergey Vasilisin 1824 RTTY in 50/170 crew TG's to Murmansk Radio. UALL: RTMA Evrika 2155 RTTY in 50/170 crew TG's to Maruipol Radio. (RB)
12565 N/A: MI-1411 1644 RTTY in 50/170 crew TG's to Murmansk using hull#/ID only, name, c/s of vsl is unk. UVJA: Kapitan Bogomolov 1758 RTTY in 50/170 crew TG's using hull#/ID MA-1831 (MRM/KRH). (RB) UUGS: MB-0127 MRM/KRH,RUS 1230 RTTY 50b 3cyr msgs. (RK) (BMRT Nokuev -LOGS) UIAE: MB-0005 MRM/KRH,RUS 1245 RTTY 50b 3cyr msgs. (RK) (BMRT Ivan Zimakov -LOGS)
12565.5 UBKS: RTMS Sokrat 1648 RTTY in 50/170 RYRY/DE to UIW, & into admin TG's from master KMD Shcherbakov w/ref to Hull#/ID RTMS-7555. LYLN: RTMKS Daukantas 1813 RTTY in 50/170 RYRY/DE to LYL, & into crew TG's, is ex-RTMKS Simonas Daukantas. (RB)
12566 UUJF: STM Vladimir Kalinin 1712 RTTY in 50/170 crew TG's to Sevastopol Radio. UCKW: Unid 1727 RTTY in 50/170 tfc being sent for UCHV, TKH Inzhener Yermoshkin, using hull#/ID MI-1527. (RB) UAYV: MB-0002 MRM/KRH,RUS 1315 RTTY 50b 3cyr msgs. (RK) (BMRT Aleksandr Gryaznov -LOGS)
12567 UCHV: Inzhener Yermoshkin 1533 RTTY in 50/170 crew TG's to Murmansk using hull#/ID MI-1527, (MRM/KRH), is app ex-UTWA. (RB)
12568 UNRK: Demyansk 0050 RTTY 50/170 MB-2420 (MRM/KRH) w/RR msgs to Murmansk Tralflot. (JEB) ULSU: BMRT Volgobalt 1735 RTTY in 50/170 msgs to Murmansk Tralflot using hull#/ID MB-0136, from master KMD Dyadyk. UUAY: TKH Vinnitsa 1819 RTTY in 50/170 w/crew TG's using hull#/ID MA-0056 (MRM/KRH). UUHK: TR Proliv Nadezhdy 1911 RTTY in 50/170 crew TG's to Murmansk Radio (MRM/KRH). (RB)
12569 YLFP: RTMS Misa 1601 RTTY 50/170 svc msgs to President Egorov of "RIGAS ZVEYNIETSIBA" from Km Dvoryatkin via UQK/Riga Vsl is ex LYEV. (HOOD) YLFR: TSM Milgravis 1533 RTTY in 50/170 admin tfc to Riga Flote Egorovu from master KM Smirnov, also sends tfc to Riga from YLFB, LM-7552, RTMS Aitsynayams. YLFB: RTMS Aitsinayams 1540 RTTY in 50/170 w/crew TG's using hull#/ID LM-7552. YLEL: BMRT Gunars Akis 1602 RTTY in 50/170 tfc from master, KMD Drozdov, using hull#/ID of BMRT 575. UFKG: Orlan 1632 RTTY in 50/170 RYRY & into crew TG's using hull#/ID MI-1665 (MRM/KRH). YLEP: BMRT Robert Eydeman 1642 RTTY in 50/170 crew TG's to Riga Radio using hull#/ID BMRT-249. YLFP: RTMS-7579 Misa,LVA 1606 RTTY 50b 3cyr msgs. (RK)
12569.5 UVKG RTMS Stratosfera 1648 RTTY 50/170 crew TGs to URL/Sevastopol Vsl

is ex UEIU. (HOOD)
12570 N/A: TKH Khudozhnik Kuin 1802 RTTY in 50/170 admin tfc via Mariupol, ETA Palermo. UQRN: TKH Khudozhnik Kuindzhi 1802 ARQ w/tlx for ETA Palermo. ELLD5: M/V Lucky Fortune 1844 CW w/telex to Oceanroutes San Francisco. (RB) UAYZ: MB-2419 MRM/KRH,RUS 1140 RTTY 50b 3cyr msgs. (BMRT Tsymlyansk -LOGS) UFNH: MB-0021 MRM/KRH,RUS 1425 RTTY 50b 3cyr msgs to UDK-2. (RK) (BMRT Vladimir Brodyuk -LOGS) UCBY: Zhanna 2200 ARQ clg UFZ (Vladivostok R.) de UCBY, no joy. (WT)
12570.4 Unid: 2110 RTTY 50/1036 (RT2)
12570.5 UHUZ: RTMA Nikolay Brovtsev 2156 RTTY in 50/170 crew TG's. (KLD/UTF) (RB)
12571 UTQZ: TH Evgeniy Onufriev 1709 ARQ psn rpt from Km Tsyrelnikov via UCE/Arkhangelsk. Vsl is gen cargo/timber carrier of Northern Shipping Co, Arkhangelsk. UQGX: TH Cherepovets 0825 ARQ psn rpt (anchored Kaliningrad Roads for loading woodpulp) via UCE/Arkhangelsk. (HOOD)
12571.5 UFZJ: RTMS Azimut 1852 RTTY in 50/170 RYRY/DE to UIW, & into tlx w/crew passport info from master Kap. Nikolay Lopatin. UWBS: RKTS Nikolay Fil'chenkov 2200 RTTY in 50/170 crew TG's to Sevastopol rdo. (RB)
12572 UVJA: Kapitan Bogomolov (MA 1831) 1620 RTTY 50/170 crew TGs to UDK2/Murmansk. (HOOD) UFBE: BATM Maluvsyaii 1915 RTTY in 50/170 RYRY/DE to UDK-2, & into crew TG's to Murmansk Radio using hull ID MA-0061 (MRM/KRH). (RB) UUKB: MA-0829 MRM/KRH,RUS 1115 RTTY 50b 3cyr msgs. (RK) (PPR Bussol -LOGS)
12572.5 EOJF: RTMS Bagrationovsk 1710 RTTY stern trawler, in 50/170 admin TG's to Kaliningrad Radio from master, KMD Panikov. UAMB: BMRT Kokand 1724 RTTY in 50/170 RYRY/DE to UIW, & into admin TG's from master KMD Stalikov, this is apparently the ex-LYIR. YLGK: TR Kapteinis Kulinichs 2153 RTTY in 50/170 crew TG's to Riga Radio. (RB)
12573 UQYZ: TKH Pavloydar 2025 RTTY in 50/170 admin TG's to Vladivstok R. from master, KM Zozulya. (RB)
12574 UAYN: Unid MI-1664 1741 RTTY in 50/170 RYRY/DE to UDK2, Murmansk Radio, & into crew TG's using hull#/ID MI-1664, apparently a recent c/s change, no prior ID for MI-1664. USRV: BATM Marshal Yeremenko 1743 RTTY in 50/170 crew TG's to Murmansk using hull#/ID MA-0064. (MRM/KRH). UPRR: BATM Petr Sbignev 1751 RTTY in 50/170 RYRY/DE to UDK2, Murmansk Radio, & w/TG to Murmansk Tralflot from master KM Bulatov using hull#/ID MA-0055. UFAA: BATM Aleksey Generalov 1754 RTTY in 50/170 crew TG's to Murmansk Radio using hull#/ID MA-0062. UQYN: BMRT Tsymlyansk 1805 RTTY in 50/170 crew TG's to Murmansk using hull#/ID MB-2419. UEXD: TSM Olayne 1809 RTTY in 50/170 RYRY/DE, & into crew TG's home using hull#/ID MI-8339, had been listed prior as "RI-8339", chg in prefix also? (RB)
12575.5 3FKX4: TR Ref Star 1635 RTTY in 50/170 crew TG's to Kaliningrad. (RB)
12576 UHJL: TSM Olayne 2039 RTTY in 50/170 crew TG's (MRM/KRH) had been Homeported at Riga. (RB)
12584.5 WLO: Mobile Radio,AL 2005 FEC wx in FF...not confirmed. (RT2)
12593.5 9VG81: Singapore R.,SNG 1659 ARQ "9VG" IDent mkr. (RK)
12608 UAT: Moskva R.,RUS 1455 ARQ DE UAT mkr. (RK)
12664.2 FUM: French Navy Papeete, 0113 RTTY Tahiti 75/850 RYRY/DE. (RB)
12691 FUX: Le Port, Reunion 1815 RTTY 75b/850 test tape, RY's & SG's. (JD2)
12735 URL: Sevastopol Radio 1846 RTTY 50/170 tfc (in EE) from Barcelona for MV Molodaya Gvardiya. (HOOD)
12748 Unid: 1535 FAX USCG quality (RT2)
12921.1 MGJ: Faslane Naval base, Scotland 1200 RTTY 75b/340 CARB (1 channel of an FDM aggregate replacing MTO which has now ceased transmission). (JD2)
13031.2 FUF: Fort de France, Martinique 1815 RTTY 75b/850 test tape, RY's & SG's. (JD2)
13042.5 FUV: Djibouti 1815 RTTY 75b/850 test tape, RY's & SG's, 8-1/2 bit baudot; looks like 1-1/2 bits "start", 2 bits "stop"; difficult to copy. (JD2)
13241 Unid: 0930 ARQ poss encrypted til 1000 (ANEE)
13314.6 Unid: N.Korean Diplo? 0626 BPSK 1200bps UNID System (MC)
13347.7 Egyptian general intel office, Cairo 1000 ARQ to ?? w/peace process update. Kuwait, Amman and Rabat normally served on this circuit. (ANEE)
13349.3 Unid: 2209 unid off before any baud rate found. (RB)

13366.5 5YD: NAIROBI AIR 1631 RTTY 50/400 Air tfc. Cct [KVA] to Addis Ababa. 230hz high. (DW)
13373.4 5YD: NAIROBI AIR 1636 RTTY 50/400 Marker "de 5YD 5YD 5YD" and ry's. 50hz low. (DW)
13378.7 Egyptian MFA, Cairo 1437 ARQ 100/170 ATU-80 MSGs to Algiers "kdqikef". (MC)
13388.5 MFA Rome 0730 ARQ wkg/Italian Embassy Sanaa and from Italian Embassy Tel Aviv; copies to many mideast embassies til 0900 (ANEE) Italian MFA, Rome 0727 ARQ 100/170 5LGs to Middle Eastern Embs "da maeroma" (MC)
13397 DFZG***: Serbian MFA, Belgrade 0645 RTTY 75/400 crypto after "xjxjxjxjxjxj" (MC)
13401.7 MFA Cairo 1000 ARQ (ANEE) Unid: Egyptian MFA, Cairo 1451 ARQ ATU-80 MSGs to various european embassies (MC)
13419 6XM8: BNDVB BONN 1249 ARQ-E 288/200 On line encrypted tfc. (DW)
13425.7 MFA ALGIERS 1422 COQ-8 26.6 Tfc in French p/l to Moscow directly or relayed ? (jerle). Attempting work Ankara, then Berne. (DW)
13438.6 DG43H1: PIAB BONN 1004 FEC-A 96/400 Press in German to mid-East, but poor copy. (DW)
13444.2 RFQP: FF DJIBOUTI 1707 ARQ-E3 100/400 Betas. 1713z Controle de voie RFQP de RFQP. Cct [DJI]. 1728z second c de v svc - vri slow transfer. (DW) RFQP: FNY Djibouti,DJI 1330 ARQ-E3 100b 'DJI...' CONTROLE DE VOIE. (RK)
13486.7 MFA Cairo 0915 ARQ wkg/Egyptian Embassy, Bonn til 1015 (ANEE)
13509.8 CFH: Halifax Naval, CAN 1415 RTTY wx & traffic (RT2)
13543 Unid: 1256 ROU-FEC 164.5/400 no traffic. (ED)
13543.7 RFTJD: FF Libreville,GAB 1304 ARQ-E3 192b 'HAI...' CONTROLE DE VOIE. (RK)
13545.1 PCW 1: Mfa Den Haag 1530 TWINPLEX 100 mgs to Tehran (BvR)
13655 Unid: 0814 81-81 cannot decode (EW)
13840.7 GXQ: Royal Navy, London 0634 VFT 5ch of 50bd/170 Baudot, "ryiryi... test de gxq" DCN VFT (MC)
13874 Unid: Romanian? 1332 ROU-FEC 164.4/400 crypto (MC)
13880 RAU***: SOUD Station? 0725 RTTY 75/500 "rau 2/1402" ID "11177 00070 00000 02015 06659" (MC) (Ary sez this is SOUD Moscow w/a msg TO RAU -LOGS)
13928.7 DOR***: Bulgarian MFA, Sofia 0820 RTTY 75/500 "ryryry... gd zoh 3 dumi 5225" and tfc to Prague (MC)
13933.3 DOR***: Bulgarian MFA, Sofia 0845 RTTY 150/500 NX in Bulgarian (MC)
13957 SNN299 Warsaw 1541 POL-ARQ 100/200 5 CRC, brief pol. msg. (ED)
13966.4 ICRC, Baku 0635 PACTOR-I1 200/200 MSGs to Geneva in FF & EE. (MC)
14082.8 KG4GC: Guantanamo Bay, Cuba 1803 RTTY 170/45 (RT2)
14085.9 K3KO: Voitsburg, PA 2327 RTTY 45/170 chat (RT2)
14092.5 K5VNG: Islip, NY 2150 RTTY 45/170 chat (RT2)
14095.1 W1AW: ARRL Newington, CT 2318 RTTY 45/170 w/news of explosion in Appleton,WI (RT2)
14364 Unid: SOUD Station? 1341 RTTY 75/500 Baudot, 5LGs on link id "20087" (MC)
14376 MFA SOFIA 1423 RTTY 75/500 Diplo press summary in Bulgarian. Opr signals & offline (5FG's) encrypted tfc. Various opr signals. Further tfc in Bulgarian p/l. (DW)
DOR***: Bulgarian MFA, Sofia 1344 RTTY 75/500 NX in Bulgarian (MC)
14411 Unid: ?,RUS 0703 36-59 50/200 tfc (MC)
14434.5 7RA20: MOI Alger,ALG 1330 RTTY 50b Fr and ATU-Ar msgs. (RK)
14476.1 Belgian MFA, Brussels 1105 VFT 6ch of 100bd/170 Baudot, MSGs in FF. (MC)
14583 JTF23: Ulan Bator Mongolia 0715 RTTY 50/606 Diplo tfc to OMZ24 Prague in Mogolian Lang. (AB3)
14593 MTS: Mt Pleasant, Falkland Isl 1800 PICC-6 wkg MKK. (JD2)
14610.5 Unid: French Diplo? 1551 TT2300b 100bd idle (MC)
14643.7 Unid: 0556 TWINPLEX 100 Unid EE mgs (BvR) 4UZ: UNO, Geneva 1236 TWINPLEX-1w 100/170 United Nations NX review in EE (MC)
14645.7 Egyptian E, Khartoum 1620 ARQ 5LGs and ATU-80 MSGS to MFA Cairo. (MC)
14732 Warsaw 1502 POL-ARQ 100/170 5 CRC, msg. to Lagos. (ED)
14760.8 CNM61: Rabat, Morocco 1245 RTTY 50/400 News (RT2)
14830 SOUD (RUS) 1455 RTTY 75b 11177 00030 20365 17731 ..... 5L msg. (RK) (Ary sez c/s of the sender is BFR, receiver is RGA -LOGS)
14912.5 SPW: Warsaw Radio, Warsaw 1413 FEC Marine traffic lists "tfc-lista"

(MC)
14990.7 MFA ISLAMABAD ? 1031 TWINPLEX 100 -300/-100/100/300. F7b-1. Stn in irs mode, also at 0752, 1112, 1132. (DW)
15036.2 Unid: Russian Mil,? 0727 MS5 12 tone vocoder (3300Hz pilot) (MC)
15541.7 Egyptian diplo 1606 ARQ atu a tfc (BvR)
15730.2 Unid: ARQ UTC? sc tvpk (BvR) (probably MFA Den Haag -LOGS)
15744 XVN: Hanoi, Vietnam 0630 RTTY 50/311 VNA new EE (AB3)
15757 SNN299: MFA Warsaw 0818 POL-ARQ 100 msgs in polish lang (EW)
15981.7 EgyEmb Washington DC,USA 1717 ARQ 5L msgs to KHARGIA Cairo. (RK)
15994 UNID: 0815 FAX 120 poor wx map no id. (EW)
16015.7 MFA SOFIA 1031 RTTY 150/500 Diplo news in English. (DW)
16017.7 MFA SOFIA 1008 RTTY 150/500 Messages and nx in Bulgarian p/l. (DW)
16032 Unid: 0822 FAX 120 wx map, no id. (EW)
16035 Unid: 0815 FAX 120 wx map, no id. (EW)
9VF252: Singapore 1655 FAX 120/576 KYODO press in JJ. (JD2)
16117 6VK317: PANA Dakar, SEN 1604 RTTY in 50/425 FF nx stories, later into EE items. (RB) 6VK317: PANA Dakar,SEN 1003 RTTY 50b Fr NX. (RK)
16119.9 HBD20/7: MFA BERN 1150 ARQ Tfc in offline (5LG's) encrypt. After period of betas signs HBD20/7 and offair. (DW)
16120.7 6VK317: Dakar, Senegal 1630 RTTY 50/850 QTY S9 w/news in unid lang. (RT2)
16146 Unid: Cuba? 2010 RTTY 50/425 News SS (AB3)
16158.1 Unid Cuba 1723 RTTY 50/500, Minrex press from Latin Am. (ED)
16205 MKK: RAF Bampton, G (tx at Stanbridge) 1800 PICC-6 wkg MTS. (JD2)
16213 DKAR***: French E, Dakar 0937 ARQ6-90 200/400 5LGs (MC) DKAR: UNID Dakar, SEN 1733 ARQ-6/90 200b DKRX DE DKAR, SV DIPL 5L msgs. (RK)
16268 German Embassy La Paz, Bolivia 1245 ARQ-E 96 wkg/MFA Bonn til 1330 (ANEE)
16273.6 MFA ALGIERS 1420 COQ-8 26.6 Tfc in ATU80. Fading. (DW)
16327.7 Egyptian Embas: sy, Unid loc. 2303 ARQ sending 5LG's. (RB)
16332 V5G***: Romanian MFA, Bucharest 1048 ROU-FEC 164.5/400 crypto (MC)
16386.7 Unid: 1334 ARQ sc yoxc kmeu (BvR)
16386.7 Mfa Islamabad 1349 TWINPLEX 100 eng nx (BvR)
16386.7 PAKISTAN EMB RABAT 1037 TWINPLEX 100 -300/-85/85/600 (old system). F7b-1. Stn in irs mode. Swaps to iss. Offline encrypted tfc. opr chat in EE. Betas. Offair new qso offline encrpt. Singned Parep ra~f~at" (Rabat?). (DW)
16494.7 9HYN3: Mv Chance 1609 ARQ ship 63398 in irs mode unknown qsx (BvR)
16501.7 MFA Cairo,EGY 1430 ARQ EE msg, to DKR/ABJ. (RK)
16551.7 Unid: 1630 ARQ sc tvxy txvv tvxs (BvR)
16551.8 Unid: 1553 ARQ Intership comms, at 1542 sc tvvx (BvR)
16671.8 Unid: 1545 ARQ sc txvv (BvR)
16683.5 YLBV: M/T Lielupe 1642 ARQ w/test msg to Riga via "Amos Link", login 24659 LIEL (chg of c/s?). (RB)
16685.5 SUCD: MV Alwadi Al Gadeed 0002 ARQ tlx in ?? login 78001 sucd. (WT)
16686.5 ELRL2: M/V Joyous World 2057 ARQ on her maiden transition to Cristobal (app via Panama canal), vsl is 69,286 DWT w/cargo of soybeans & corn. (RB)
16687.5 3EAW7: M/V Pacific Rider 2213 ARQ rx only. login 42593 3eaw7. (WT)
16692 LAEK4: M/V Chilean Reefer 1702 ARQ w/tlx re ETA Cristobal. (RB)
16693.5 ELOI6: M/T Knock Allan 1804 ARQ w/AMVER/PR vsl route Sabine Pass, Tx to Malomgo, Angola. (RB)
16696.5 9HYN3: M/T Chance 1720 ARQ w/AMVER/PR to 'AMVER New York', selcall 63398. (RB)
16697 YQEP: M/V Birlad 2116 ARQ w/tlx to General Steamship, Houston, login 29123 YQEP. (RB)
16699.5 P3FG4: Aghia Markella 1556 ARQ tfc for Evakend Shipping. (AB2) UBLA: TKH Mekanik Slauta 1619 ARQ w/crew list telex, login 54970 UBLA. UWKX: M/T Kapitan Ostashevskiy 2128 ARQ w/tlx to Boston after sending selcall QSPV, SAB, Goteborg Radio, login 54969 UWKX. (RB)
16702 ELGF9: Nedlloyd Curacao 1855 ARQ posrep, 15.36N/96.26W, selcall 29158. (AB2)
16703 3EYB6: M/V Kudu 1809 ARQ w/status tlx. (RB)
16705 PPML: M/V Frotachile 1802 ARQ w/tlx for revised ETA due to gale force winds/heavy seas being encountered. (RB)
16706.5 KDBG: M/V Manoa 0356 ARQ w/qrg rpt. (WT)
16707.5 SXHP: M/V Jewel-1 1639 ARQ wkg SVU, Athens Radio, w/"SVU DE SXHP QRV+?". (RB)

16708.5 EWDT: TH Khudozhnik Moor 1708 ARQ w/crew info tlx (26 crew) via St Lys Radio, login 55136 EWDT. (RB)
16713.5 SXRY: M/V Angelic Faith 1754 ARQ w/tlx via WLO, login 16728 SXRY. 3ELF9: M/V Doctor Lykes 1811 ARQ w/noon report tlx, posn 1333N/06932W. C6QS: M/V Arabian Sea 1833 ARQ w/tlx re ETA Veracruz. HQPQ: M/V Rio Ulua 1844 ARQ w/tlx re ETA Thessaloniki & cargo report. (RB)
16791.5 Unid 0211 ARQ News EE (AB3)
16793 Unid PHL ships 1603 FEC EE nx (BvR) UTKU: BMRT Mys Frunze 1617 RTTY in 50/170 w/crew TG's to Murmansk using hull#/ID MB-0389. (RB)
16796 ENUR: TH Stakhanovets Petrach ODS,UKR 1433 RTTY 50b msgs to UUI, noon posn 23N36/42W36. (RK)
16798 UGMS: RTMS Kapitan Smelov 1718 RTTY 50/170 RYRY & into admin msgs from, master KMD Safonov. UCBW: RTMS Nikifor Pavlov 1732 RTTY in 50/170 RYRY/DE to UGW, & w/admin TG's to Novorossiysk Radio, including wx. (NVR/KRH) (RB)
16799.5 UEMP: RTMS-7563 Malta KLD,RUS 1344 RTTY 50b 3cyr msgs. (RK)
16800.5 UQTD: BKRT Nataliya Kovshova 1400 RTTY 50/170 wkg URL crew TGs. Vsl is ex UJZY. (HOOD) UTQD: BKRT Nataliya Kovshova,UKR 1350 RTTY 50b 3cyr msgs to URL/SWS. (RK)
16801.5 UJMU: TR Dimants 1602 RTTY in 50/170 admin tfc to Riga Radio from master KM Fokin. (RB)
16802 UGNX: TKH Komsomolets Litvy 1444 RTTY in 50/170 admin tfc to UGC from master, KM Simakov, vsl uses abbrev. KSM for Komsomolets. Also send same for UOON, TKH Kostroma & UWUA, TKH Novozyaybkov. (RB)
16805 UTUO: TH Professor Nikolay Baranskiy,RUS 1335 RTTY 50b 3cyr msgs to SPB. (RK)
16808 SPA81: Gdynia Rdo, POL 1450 FEC w/tfc list. At 1510, wkg M/S Ocean Trader in ARQ w/PP tlx tfc. (RB)
16829 UBN: Mariupol Radio, UKR 1525 FEC w/Nav Area warnings. (RB)
16904.9 FUV: Djibouti 1050 RTTY 75b/850 test tape, RY's & SG's, 8-1/2 bit baudot; looks like 1-1/2 bits "start", 2 bits "stop"; difficult to copy. (JD2)
16915 FUX: Le Port, Reunion 1055 RTTY 75b/850 test tape, RY's & SG's. (JD2)
16922 VTH: Bombay, India 1040 RTTY 50b/850 test tape w/VTH 5/7/9 RBSL BNR RY's & SG's. (JD2)
16930 MRB: 0834 RTTY 50/170 RY. (CC)
16951.5 6WW: Dakar, SEN 0341 RTTY 75/957 Fr Navy RY (AB3) 6WW: Dakar, SEN 1100 RTTY 75b/850 test tape, "Fox", RY's & SG's. (JD2)
16961.5 FUF: Fort de France, Martinique 1100 RTTY 75b/850 test tape, RY's & SG's. (JD2)
16971.8 Unid: 1615 ARQ sc tvxk (BvR)
17020 UDK2: Murmansk Radio, RUS 1522 RTTY in 50/170 TG's to unid vsl. (RB)
17022.5 WLO: MOBILE RADIO 1546 FEC Maritime(union) bulletins. Times given as "ARA times 0235/145z MEBA times 0335/1535z Sat/Sun." Then "fec mode sitor telex tsb wx bdcast ceased Jan 2, 1996" - available arq mode chargeable. (DW)
17049 UUI: Odessa Radio 1609 RTTY 50/170 tfc for ENTC TH Odessa (ex EWBK); ENQD TH Slavyansk (ex ULTN); UUZU: TH Vega (ex UONO); UYPT TH Izmail (ex UOCN); URXY TH Aleksandr (ex UBCP) and USYJ TH Dzhuzepe de Vitorio (Giuseppe di Vittorio in Jane's). (HOOD)
17055.1 MGJ: Faslane Naval base, Scotland 1200 RTTY 75b/340 CARB (1 channel of an FDM aggregate replacing MTO which has now ceased transmission). (JD2)
17430 9VF209: Singapore 1655 FAX 120/576 KYODO press in JJ. (JD2)
17468 HGO24: Budapest Hungary 0645 RTTY 50/400 MTI News EE (AB3)
17521 HSW61: Bangkok Thailand 0630 RTTY 50/850 Meteo (AB3)
17547 Unid: 1614 ARQ-E3 192 idle (BvR)
18050 SNN299: Polish MFA, Warsaw 1238 RTTY 75/250 NX review in Polish (MC)
18064 SNN299: Polish MFA, Warsaw 1103 POL-ARQ 100/240 Claris MSGs & 5LGs (MC)
18066.4 "de ver" ? Geneva 1459 PACTOR-I 200/200 ICRC Geneva with FF msg. (ED)
18191.7 Unid: Italian Diplo/Mil,? 1059 FSK 1200bps UNID System (MC)
18241.9 ZRO4: Pretoria Meteo Radio 0701 RTTY 75 wx rpts (EW)
18252.7 SUU: Cairo Meteo 0654 RTTY 100 wx rpts header DBBB (Cotonou Benin). Cairo off freq? (EW)
18314.5 Unid: French Diplo? 1351 TT2300b 100bd tfc (MC)
18390.5 5AF: Tripoli, Libya 1650 RTTY 50b/340 "QJH HLLTYF", this sta has been

heard on freqs from 18380 to 18420 Khz. (JD2)
18422 Unid: SOUD Station,? 1409 RTTY 75/500 5LGS to link ID "10024" (MC) (Cuban traffic from Hanoi logged here before -LOGS)
18451.5 Jakarta 1622 ARQ Indo. lang. msg. to Damascus. (ED)
18597.5 MFA MADRID 0928 TWINPLEX 100 -200/-85/85/200. F7b-1. Brief Spanish words before end qso. (DW)
18771.2 MFA Havana 1430 RTTY 50 Prensa MINREX svc til 1500 (ANEE)
18970.5 "RFLI" Caribbean 1707 ARQ-E3 96/392 5lg's. (ED)
19011.6 PCW 1: Mfa Den Haag 1531 TWINPLEX 100 Eng mgs (BvR)
19031.7 MFA ISLAMABAD ? 0759 TWINPLEX 100 -300/-85/85/600. F7b-1. Weak signals then offair. (DW)
19126.7 MFA Cairo 1445 ARQ ACK circuit w/unid embassy til 1515 (ANEE)
19130 Interpol, unid loc 0540 ARQ Tfc from Pretoria. (CC)
19160 CUBAN EMB, LUANDA 1629 RTTY 100/500 Tfc in online encryption. Occ string of "zzzzzzzz" (start?) and"+++++++" (ends?). Header "Luanda" and "minirex". (DW)
19217.6 DFZG: Belgrade, Yugoslavia 2130 RTTY 75/400 MFA (RT2)
19289.7 Cuba 1734 RTTY 50/400 Minrex Cuba w/EE(!) press, warbly tones. (ED)
19363.4 Unid: 2030 FAX Unid...very poor quality (RT2) (poss NRR, USN Rossie Roads on 19363? -LOGS)
19693.5 UFN: Novorossiysk R.,RUS 1403 ARQ "UFN" SITOR mkr. (RK)
19860 MGJ: RN Faslane,G 1244 RTTY 75b QSX mkr. (RK)
22447 FUV: FNY Djibouti,DJI 1359 RTTY 75b RY/SG. (RK)
23561.5 PCW1: Mfa Den Haag 1551 ARQ sc TVPV (Luanda) (BvR)

=MARITIME=

2182 GGSH: Mv High Landsprite 1513 USB clg Oostende radio for radio ck. PBK: Ned CG 1619 USB clg PHVC. GOSL: Mv Cecilie viking 1623 USB clg Stonehaven radio qsy chnl J. GCDX: 1711 USB Unid clg Oostende radio for radio ck. V2TO: 1711 USB Unid clg Oostende radio qsy 1665-2090. VON: Ccg St. John's 0544 USB ann. VCP: Ccg St. Lawrence 0544 USB ann gale wrng 2598. VCO: Ccg Sydney 0558 USB ann gale wrng. GVXE: Mv Dawn Shore 1751 USB clg ....? GRHJ: Mv Shetland Service 1810 USB clg Stonehaven radio qsy J. GVXE: Mv Dawn Shore 1752 USB clg Humber radio. Unid: Grampiam Otter 1758 USB clg Gampiam Pride. MQSW9: 1805 USB Unid clg Humber radio qsy chnl R. V2UP: 1715 USB Unid clg Oostende Radio qsy 2090-2761. MPBF4: Mv Grampiam Orcades 1843 USB clg Stonehaven r qsy chnl I. GKR: Wick radio 1824 USB clg Gampiam Orcades qsy chnl I. V2FY: 1827 USB Unid clg Ostend radio. Unid: Platform K14 1343 USB clg RV (rijksvaartuig) no?? qsy 2391. Unid: Mv Viking Viper 1925 USB clg Grampiam Protector qsy 2246 (BvR) CGDV: FRV Wilfred Templeman 0255 USB clg St. Lawrence CG Radio. Stornoway Coast Guard (Scotland) 2055-2115 USB wkg fishing vessel Radius Star. Radius Star relaying info re accident casualties on another fishing vessel. Helicopter evacuation of two casualties requested. (KH)
2204 PAEN: HRMS Vlaardingen 1435 USB clg Noordwijk radio req pp. PAHC: HRMS Blommendal 1440 USB clg Noordwijk radio req pp. PAES: HRMS Zeefakkel 1503 USB clg Noordwijk radio. PAMG: Hrms Van Galen 1703 USB ww Noordwijk Radio. PAFI: Hrms Middelburg 1724 USB clg Noordwijk radio. PAFU: Hrms Sittard 1123 USB ww Noordwijk radio (BvR)
2582 ZBM: Bermuda Harbor Radio 0440 USB w/wx, MIB. (RB)
2625 9HD: Malta R.,MLT 2130 USB EE m clg TCBS3. (RK)
2749 VAU: Yarmouth Coast Guard, NS, CAN 2340 USB Maritime wx forecast.(KH)
3261 ship-to-ship comms 0200 USB Is this an ITU Ch? (BWS)
4054 HLS Seoul radio 0850 USB pp w/unid in Korean (AW) (new one! -LOGS)
4092 HQCL5: Mv Abu Samir 1911 USB clg GKT. GDKF: Warship Sheffield 1840 USB clg Portishead radio (BvR)
4110 ELKI6: M/S Fantasy 0506 USB clg/wkg AT&T Coastal Station WOO (on 4402) re R/T tfc holding for passengers, vsl is Carnival Cruise Lines 70,367 GWT, cruiseship. HQDE3: M/V Cavalier Star 0522 USB general cargo vsl, clg/wkg AT&T Coastal Station WOO (on 4402) re R/T call to Jacksonville re problem w/vsl, only able to make 1 knot, vsl 8 miles N. of Lake Cherokee, Fl, att to make Port Everglades. (RB)
4146 ZML Taupo radio 0805 USB wx to the area (AW)
4149 WBN5981: Monitor (tug) 0620 USB clg/wkg WPE, Tug Communications, Jacksonville, Fl, US w/posrep. WBN3011: Pilot (tug) 0631 USB clg/wkg WPE w/posrep. (RB)
4294 WNU31: Slidell Radio,LA 2220 CW CQ 4/6/8/12/16/22 (RT2)

4310 WNU41: Slidell Radio, LA 1420 CW QSX Marker (RT2)
4369 WLC: Rogers City R., MI, USA 0346 USB "Voice of the Great Lakes" w/marine wx for ships on the Great Lakes. (DF)
4372 3DP: Suva Radio Fiji 0805 USB Marine Wx (AB3)
4384 GKT20: Portishead Radio wkg HMS Invincible (KH)
4387 WOO: Ocean Gate Radio, NJ 2210 USB w/wx. (RT2) WOO Ocean Gate Radio 1403 USB making ann. (DW3)
4390 WOM: 0024 USB High Seas radio wkg Cruise Ship Crystal Harmony. (KH)
4396 DAJ: Norddeich Rdo, GER 0445 USB w/voice marker..."here is Norddeich Radio" in EE, w/sound of ticking clock. Note Norddeich sounds like Nordine in EE. (RB)
4402 KMI: AT&T Coast Station Cal 0658 USB w/voice tfc list. (RB)
4417 Bluff Fishermens Radio NZ 0810 USB Traffic for small ships. Russell Radio NZ 0740 USB small ships sked. (AB3) ZLTH "Cape Resolution" 0823 USB wkg ZLM Taupo. (AW)
4444.5 Out-of-band: Mississippi Towboats 2352 USB w/chat, gave mile marker for Mississippi River. (RB)
4724 US vessel "Gina Bradley" 0857 USB wkg "Brenton Express (AW)
6215 PNK Yayapura radio IN 0825 USB general call. Later at 0827 P2R Rabaul radio, also general call. (AW)
6344 SVB3: Athens,Greece 0045 CW. (RT2)
6357 SAA: Karlskrona R.,S 1111 CW CQ DE SAA. (RK)
6368.5 D3E51: Luanda Radio, Angola 0010 CW QSX 8/12/16/22 Mhz (RT2)
6376 WCC: Chatham Radio, MA 0335 CW QSX Marker (RT2)
6389.7 WNU42: Slidell Radio, LA 0100 CW (RT2)
6421.5 FFL3: St.Lys Radio, France 0053 CW QSX 4/8 Mhz (RT2)
6493 VAI: Vancouver CG Radio 1803 CW 'T' Marker (RT2)
6507 VIT Townsville radio 0645 USB wx to the area // 8176 (AW)
6507 Lyngby Radio 2315 USB w/offshore wx in Danish/EE. (TB)
6815 Pirate fishing vessels 0137 LSB w/XXX language, EE/SS comms. (BWS)
8101 Unid 2358 USB (did not catch the id's) stations (U.S.) w/personal type pp traffic. (JH) (common cruiseship crew pp freq -LOGS) LAOI4: M/S Majesty of the Sea 0149 USB -s, clg/wkg fellow cruiseship M/S Song of America, LENA3, who is duplex on 6230. (RB)
8116 S/V MOHAWK 1115 USB wkg MERRY MERRY & CORIOLIS in yacht net around the Caribbean...MOHAWK was heading to St.Thomas,USVI...at 1120 two of the boats switched to 4024.0 while the CORIOLIS joined a ham net on 7268.0. (TB)
8176 Sydney Radio 1117 USB w/offshore wx. (TB)
8198 ZMAC: (?) Columbia 0653 USB wkg Sydney Radio duplex w/R/T call. Anybody know this NZ-flag merchant vsl's full name? (JP)
8240 GHJV: M/V Lord Nelson 0035 USB clg Portishead Radio. (JP)
8243 EFDS: Mv Mar Caterina 1750 USB clg Norddeich radio (BvR)
8249 ELPB8: 1150 USB Unid clg Portishead r req pp (BvR)
8345 XYNS: MV Sagaing,BRM 1125 CW msg to SUP, QRC BM01, ETA Port Said. (RK)
8347 3EZP8: SS MSC Sabrina 2210 CW wkg unid coastal station w/msg tfc. (RB)
8347.5 4JIG: TH Teymur Ahmedov 1720 CW clg URM3 DE 4JIG K, no joy. (RK)
8351 ELOC3: Tropic Brilliance 2030 CW SVC msg FM TROPIK BRILLIANS. (RK)
8363 3FMN3: M/V Golden Panagia 2341 CW wkg WNU33 w/tlx tfc. (RB)
8365 UTYZ: TKH Kremenchug 2159 CW clg/wkg VCS, Halifax CG Radio w/3 msgs sent. (RB)
8367.6 COLD: Pargo 2201 CW Cuban tuna trawler clg CLA sev mins, no joy. (RB)
8440 VCS: Halifax CG R, Canada 2145/0130 CW w/wx. (RT2)
8444.5 KFS: Palo Alto Radio, CA 1500 CW QSX Marker (RT2)
8472.5 JYO: Aqaba Radio, Jordan 1324 CW VVV DE JYO JYO (EW)
8510 J2A8: Djibouti R.,DJI 1930 CW VVV VVV DE J2A8 J2A8 J2A8 J2A8 QSX 8 MHZ. (RK)
8522.5 FFL4: St.Lys Radio, France 2220 CW Marker (RT2)
8568.5 XFM: Manzanillo Radio,MX 1445 CW 'de XNM/XUM' (RT2)
8569 GKD4: Portishead Radio 1430 CW 'T' Marker (RT2)
8570 WNU43: Slidell Radio, LA 1450 CW QSX Marker (RT2)
8604 XSZ: Dalian Radio 1903 USB w/hour traffic list. (PvdE)
8619 VRX32: Hong Kong R.,HKG 1956 CW tfc list. (RK)
8680 WSC: Tuckerton R. NJ,USA 1920 CW tfc list. (RK)
8767 DAJ: Norddeich radio 1748 USB w/tfc lst (BvR)
9346.5 LYEU: TR Rambynas,LTU 1715 CW clg LYL and msgs. (RK)

12422 UKRR: TH Sormowskiy-123 RST 1530 CW msg to UFJ/8683. (RK)
12429 9MCD8: M/V Amity Union 2111 CW wkg LGJ w/1 msg, vsl not in ITU. (RB)
12637.5 UHS: Murmansk R.,RUS 1505 CW DE UHS 3707 mkr. (RK)
12660.5 UGW: Novorossijsk R. UGW,RUS 1510 CW 4LA7 DE UGW 12660.5/16980 TFC LIST. (RK)
12695.5 KFS: Palo Alto Radio, CA 1620 CW CQ QSK 'K' Marker (RT2)
13002 KPH: San Francisco R., CA, USA 2317 CW w/marker and msgs. (DF)
13024.9 WLO: Mobile R., AL, USA 2330 CW w/marker. (DF)
13033.5 WCC: Chatham R., MA, USA 2357 CW w/marker. (DF)
13041.5 XVS9: Ho Chi Minh V. R.,VTN 1430 CW CQ DE XVS TFC LIST, QSX 8/12 MHZ K. (RK)
13062 CLA32: Havana R., Cuba 0006 CW w/marker and frequencies. (DF)
13083 KMI: AT&T Coast Station Cal 1526 USB wkg S. Korean fishing trawler DTAC9, Oyang No.371 for R/T call to Korea. (RB)
16530 Port Moresby PNG 0015 USB pp to unid in pidgin (AW)
16548 Singapore radio 0444 USB clg vsl "VNN362" (AW)
16591 Bulacan radio PHL 0545 USB pp to unid (AW)
16610 Athens radio 0225 USB pp to unid in Greek (AW)
16914.5 CBV: Playa Ancha Radio, Chile 2130 CW QSX 8/12/16/22 (RT2)
17027 FFL8: ST LYS RADIO 1715 CW Marker "cq de FFL4/L6/L8/L9 qsx 8 12 16 and 22 mhz channel 3 and 4 k". (DW)
17045.6 LPD46: GENERAL PACHECO RADIO 1719 CW Marker "vvv de LPD 25/46 qsx 8 12 16 and 22 mhz ch 3 and 7 k". (DW)
17088.8 KPH: 1652 CW QSX & traffic list (RT2)
17147 URL: Sevastopol R.,UKR 1300 CW 4LA DE URL URL QSW 6383/12735/17147, tfc list. (RK)
17177 URK9: Kertch R.,UKR 1245 CW msgs to RTMKS Kapitan Butrimow. (RK)
17242 LPL: General Pachecho rdo, 2328 USB ARG, wkg unid vsl for R/T tfc ID'ing in phonetics Lima Papa Lima. (RB)
17305 HPP20 Panama radio 0630 USB wkg vsl 3F0 p/p, ch 1622 (AW)
17341 HLS Seoul radio 0620 USB pp to unid. This is ch 1634 (AW)
17359 ESA Tallin radio Estonia 0550 USB pp unid. ch 1640 (AW)

=MILITARY=

2622 WRPH: M/V Liberty Star 0523 USB wkg BRD, Booster Recovery Director, reporting on station for try#2 of launch of Space Shuttle Atlantis on mission STS-76, this is a Booster Recovery ship owned my Morton-Thikol. BRD: 0813 USB w/countdown from t-minus 30 secs to liftoff for try# 2 of launch of Space Shuttle Atlantis on mission STS-76. At 0815 reporting SRB separation, M/V Liberty Star has visual contact, at 0819 BRD estimates SRB's are in safe posn. WRPH: M/V Liberty Star 0824 USB wkg BRD, adv left booster posn at 131 degrees, 9 miles, at 3017N/7848W; right booster at 134 degrees, 10.1 miles, 3016N/7848W, enrt for recovery ETA 50 minutes. (RB)
2645 TBO2: Turkish Navy, Izmir, TUR 2152 CW 5L msg, same msg as on 6375/RTT before. (RK)
3032 NIGHTWATCH 01 0359 USB wkg GASMASK. (JH)
3041 NCWA: USS Moosbrugger 0739 USB (DD-980) wkg Cape Radio w/rdo ck's, at 0812 CLEARANCE 1 wkg DoD Cape. Was in support of Space Shuttle Atlantis on attempt #2 of mission STS-76. DoD Cape: 0813 USB w/countdown from t-minus 20 secs to liftoff for try #2 of launch of Space Shuttle Atlantis on mission STS-76. At 0819 adv CLEARANCE 1 that booster recovery ships are on-scene so C-1 is relieved. At 0831 secures net w/"Cape Comm". (RB)
3113 HOTCAKE 0416 USB wkg NIGHTWATCH 01. (JH)
3122 Rescue 1719: USCG HC-130H 0547 USB wkg NMN w/ pp D-8 Op's for revised search area re missing F-18. (RB)
3128 Unid: 0130 USB Slavic military comms "iatzig" de "endo"?? w/poss Polish til 0200 (ANEE)
3130 W8P: USN 0606 USB wkg I3H w/ref to the alligator & link-11 coordination comms. (RB)
3134 OVERHANG 0616 USB clg & wkg TOPNOTCH (USN trained opr), w/both weak to each other & to me. Request for T-quad check at 0618z. OVERHANG clg & wkg WAR46, w/some apparent awkwardness in the comms. DAREDEVIL 0743 USB wkg NIGHTWATCH 01, w/3134 designated as the primary freq for this night. (JH)
3192 "Navy Auckland" RNZN Auckland 0815 USB Working patrol craft HMNZS Hinau. (AB3)

3295 OVERREACH 1435 USB clg CHOPDOWN, then wkg NIGHTWATCH 01. NIGHTWATCH 1250 USB Very weak net activity, heard after an instruction to move to S302 from 5700. Fairly certain this freq will turn out to be S302. (JH)
3349 NNN0ZTL: Navy MARS unk location 0314 USB wkg NNN0ESU, also unknown location. 7XR Unid 0323 USB clg 1NO (One November Oscar). MARS op's asked for ID of stations. No response. Warned that they were operating on US Gov. frequency. X7R Unid 0331 USB X7R & 1NO often referring to themselves as 1N and X7. They fail to acknowledge MARS operators request for ID. 7XR UnID 1NO mentioned that 7XR "popped in" at about 186 mi. out at a bearing of ??? degrees. 1NO asked for new frequency. 7XR responded with "code word HOCKEY". (DF) (sounds like USN Link-11 coordination net -LOGS)
3369 OVERREACH 0807 USB, fair level but very clear, wkg a weak station, maybe LONGHAND. NIGHTWATCH 01 0802 USB wkg WAR46 w/pp to a DSN 271 number. Hi 'n bye. (JH)
4035 U.S. Army MARS net 0145 USB (AAA/AAV net). (BWS)
4154.5 DRAE: Kriegship Luetjens 1940 USB clg DHJ59. ICT: IN Taranto 1940 USB clg V3B. DRAI: Kriegship 1947 USB clg DHJ59. (BvR) DRAV: Fregatte Karlsruhe (F212) 0049 USB wkg DHJ59 for RTTY coord. (JP)
4164 Foxtrot Tango: USN Link-11 coordination net 0635 USB w/NOVEMBER, JULIET, others, passing track info. (RB)
4175 RMMW: RuNY,RUS 2113 CW sx clg/wkg RMXV. (RK)
4238 VTP4: Vishakhapatnam Naval, India 1820 CW marker "VTP 4/5/6/" (VN broadcast). (JD2)
4268 VTG4: Bombay Naval, India 1815 CW marker "VTG 4/5/6/7" (BN Broadcast). (JD2)
4417 ZMH35: Tauranga Coastguard NZ 2300 USB Coastal wx. (AB3)
4483 NIGHTWATCH 1: 0529 USB wkg WAR46 w/pp req to DSN 939 prefix. (RB)
4495 NAMEPLATE 0716 USB wkg NIGHTWATCH 01. FLAWLESS 0653 USB wkg NIGHTWATCH 01, NW 01 looking for HONEYDEW. At 0704, FLAWLESS w/28-character EAM, coincident with GHFS rotation of same; NW 01 acknowledged traffic. PORTABLE 2153 USB w/20-character EAM, coincident w/the GHFS rotation of same. WAR46 0556 USB wkg NIGHTWATCH 01. (JH)
4551.2 TBU5: Turkish Navy, TUR 1919 CW VVV TBDJ DE TBU5 QAP tape. (RK)
4560 CGAK: HMCS St. John's (FFH-340) 0433 USB wkg Halifax Military. CGAJ: HMCS Charlottetown (FFH-339) 0420 USB clg Halifax Military. (JP)
4604 KPB644: Indiana Wing CAP 2359 USB w/RED FIRE 8 as alternate NCS, w.ck in's including RED FIRE 6, 7, 14 & GREAT LAKES 8 for regular net. (RB)
4627 KPB609: CAP Texas Wing 0005 USB w/EAGLE NEST 601 as NCS w/ck in's by EAGLE NEST 612, 611. (RB)
4721 Andrews 0405 USB on F-877, now changed to primary for unid a/c '152'. (BWS) F9Y 0700 USB wkg SIDECAR. (JH)
4724 MCCLELLAN 1315 USB as lead GHFS station, w/20-character EAM "FOR MUTTONFISH." At 1347, MCCLELLAN with 20-character EAM "FOR MUTTONFISH." OFFUTT 0631 USB, as lead GHFS station, w/20/20/26 character EAM set over a 10 minute period. OFFUTT's mike picked up the sounds of a ringing telephone. FOUR LIMA OSCAR 0651 USB wkg THULE w/pp to COMSUBLANT CWO - an Exercise Esteem Highly Alpha xmsn. At the end of the pp: "I relinquish the net, over," & gone. (JH)
4735 HERSHEY: Joint Interagency Task Force East Op's Center, NAS Key West 1635 USB wkg "J9" w/link-11 coordination comms. (RB)
4739 BLUE STAR: USN FACSFAC, PR 0004 USB wkg S4JG for rdo ck, app night alt to 8971. (RB)
4742 NATO 12 USB wkg selcall JK-LM r/c Architect (CH) Rescue 51 0320 USB wkg ARCHITECT, reported to Kinloss that Rescue Operation is complete, patient transferred to TRELISKE hospital in Cornwall, Rescue 193 and 194 returning to base. (CK) Magic 88 1435 USB wkg Architect req. wx for EGXW. Navy 706 1437 USB wkg Architect. OSD 99 1447 USB wkg Architect dept. message. 1DM95 1454 USB wkg Architect. helicraft w/ 4 pax on board going from EGOS (ops.said Harriford?) to EGAA via EGOV. ASCAOT 5350 1513 USB wkg Architect. Dept. Lyneham EGDL 1430/40 ETA LIBD 1815/25 st.rel. K+ BRIKKAZ selcal AJBH call you ops. normal in 60min. 1DM95 1516 USB wkg Architect. 1500Z wx for EGOV vallid 1450. ? 7C94 0920 USB wkg Architect dept ETUL xxxx/xx ETA EGXH xxxx/xx. msg 3PFB??2 st. call 5K4KA (hard readable). ASCOT 5040 0924

USB wkg Architect. Ascot 5040 on 4742 dept. Lyneham 0820/30 ETA ?geri 1450/00 st.rel. K selcal AKDL. ASCOT 4360 0928 USB wkg Architect dept. msg selcal AJBL. 5K4KA 0935 USB wkg Architect. ASCOT 586 0944 USB wkg Architect selcal FLBG. KITTYHAWK 1 0947 USB wkg Architect st.rel U dept. Northolt 0935/45 ETA Linton 1025/30 selcal EMBQ. IFN 71 0843 USB wkg Architect. dept. Lyneham 0755/00 ETA LDSP 1100/10 st.rel K+SPUHPRR selcal A(S?)DL. IFN 83 0846 USB wkg Architect. Dept. Lyneham 0820/30 ETA Br? (Brussels??) 0940/50 st.rel. L + BGNKORR and SPUKORR selcal AJBF. ZD950 0848 USB wkg Architect req. selcal check DJAB. 8IG 0855 USB wkg Architect. Radio check. Architect 0902 USB radio check. ASCOT 5844 0903 USB wkg Architect dept. Lyneham 0830/40 ETA Gibraltar LXGB 1310/20 st.rel. K + GIBKORR+ GIBRKRR selcal AJEG. PASTY 0908 USB wkg Architect Radio check. req. wx actual for Kinloss and Sola. Architect asked for ICAO 4 letter. EGQK ENZV. ASCOT 2030 0912 USB wkg Architect St.rel L dept.Playvog(?) 0830/35 ETA ???? selcal BLHJ. 7GT 0921 USB radio check (nothing heard). PASTY 0927 USB clg Architect. (HH) ASCOT 5564 0818 USB selcal ck AJGM. ASCOT 5040 0821 USB dep EGDL dest LCRA selcal AKDF. CROWBAR 0822 USB pp to BUCHAN qsyed to 4540KHz. ASCOT 5214 0841 USB selcal ck ajhl. ASCOT 5680 0804 USB selcal chk AKBE. ONE YANKEE VICTOR 0808 USB qsyed to freq GOLF for Buchan. INDIA FIVE ZULU 0822 USB radio ck. ASCOT 4650 0805 USB selcal chk ALM. CROWBAR 0820 USB radio ck. RAFAIR 23K7 1317 USB radio chk. ASCOT 5568 0828 USB dep EGDL dest LIBV selcal AJHL. ASCOT 5570 0805 USB pp to RAF Leeming operations. ASCOT 5742 0808 USB dep EGDL selcal AJHL. ASCOT 5728 0819 USB selcal chk AHKL. ASCOT 5804 0823 USB dep EGDL dest OSLO NORWAY. ASCOT 5795 1325 USB dep OSLO dest EGDL selcal AJDL. INDIA FOXTROT NOVEMBER 40 1728 USB dest EGNV. INDIA FOXTROT NOVEMBER 80 0806 selcal chk AJBD. TARTAN 22 0835 USB selcal ck EFAD. ASCOT 9040 0849 USB radio chk (again!). ASCOT 5794 1324 USB selcal chk AKBD. TANGO WHISKEY 11 0826 USB asking if low-level para drop was still on. TARTAN 41 0809 USB selcal chk FHGK (?). ASCOT 9040 1325 USB dep EGQK dest KPLA (?) pp to 38 Group HQ. (JB) ERRANDBOY 06355 USB wkg NIGHTWATCH 01, ERRANDBOY adv that he is going monitor only for 2 hours; NW01 asks him to acknowledge any traffic via WB; ERRANDBOY pops up a few moments later & states that he will be unable to acknowledge traffic by any means. At 1308, ERRANDBOY wkg NIGHTWATCH 01 and checks out of the net. FOURSOME 1347 USB wkg NIGHTWATCH 01. TOPNOTCH 0556 USB clg OVERHANG. TELLTALE 0210 USB wkg NIGHTWATCH 01; 0254, CHOPDOWN (or sounds like) wkg NIGHTWATCH 01, with NW01 changing xmtrs; 0352z, CHOPDOWN wkg LONGHAND. VOCALIST 1416 USB clg NIGHTWATCH 01. ANDREWS 0219 USB wkg SAM 28000 at 0219z; by 0240z, 28000 became AIR FORCE ONE. At 0246, SAM 686 wkg AIRFORCE ONE & ANDREWS. SAM 686 'trailed' AF1 ex origin to ANDREWS by 30 minutes. NIGHTWATCH 01 0648 USB (USN trained) wkg WAR46. NIGHTWATCH 01 requests a pp, so WAR46 req a move to another freq due to noise on the freq (ARCHITECT wx). (JH) PACOM 01 0150 USB PACOM 01 is (safely) on the ground at Andrews AFB after a low battery in a crash indicator caused the indicator to activate on its guard frequency (243.0 MHz UHF) while enroute to Andrews AFB. PACOM 01, through a pp, adv RESCUE OPPS that they had NOT crashed. RESCUE OPPS then thanked PACOM 01 for the heads-up and stated that their crash indicator beacon had indeed been picked up by at least one reporting party. (JJ) Ascot 5835: 1940 USB from Washington to Lyneham,selcal AJ-HL. Ascot 9749 USB Selcal check on LM-FK. (JP2) ASCOT 4321 1030 USB clg Architect. Req SELCALL ck AJDL. KITTY 4 1332 USB clg Architect. Std relay U+MAN APXH selcall EMBQ Benson/Manchester. Architect 1335 USB wkg IFN5, Std relay departed LIPA 1305 due eta ETUH 1435 selcall CFAH. RAFAIR 3J25 1355 USB wkg architect for TAFs forGQK,QL,DL,XW,EN. 3LF 1434 USB clg Architect - radio check, more checksat 10 minute intervals. Kittyhawk 4R 1551 USB departed Manchester 1540/45 est Northolt 1620/25 std rel V selcall check EMBQ Architect 1605 USB clg Ascot 4845 (unheard) Departed CYHZ 1530 eta GDL 1910 actuals for Lyneham Sel AKBH. M8D 1610 USB clg Architect req wx for EGQK. ASCOT 5316 USB departed Lyneham 1545 est Bruggen 1715 M+BGNKORR BGNKKRR selcall AKBG. RAFAIR 7C94 1620 USB Puma Helo w/4 pob enrt from stockwood?scotland ?training area to ETUL. RAFAIR 7C94 1725 USB clg architect 'Ops normal'message relay to ETUL - 'ZXCO eta 1750z'. Rainbow 1818 USB clg architect. departed EGWU 1735/40

est. BIKF 2025/30 std relay V+KEFKKFI KEFOWFI Selcall LMBD. IFN 80 1840 USB clg architect dep. Aviano 1825/30 est Lyneham 2130/40 std rel M selcall AHKL. ASCOT 5317 1854 USB clg architect dep ETUR 1830/35 est Lyneham 2000/10 selcall AKBG failed -on listening watch. 3LF 1945 USB radio check. 5XF 2006 USB clg architect /radio ck, req current jorsk designator. Architect requests change to 5714. ASCOT 4818 1008 USB Dep Lyneham 0945/55 est Kinloss 1110/20 St rel K+INVXKRR selcall AKBL. ASCOT 4790 1014 USB pre Selcall AJCF. ASCOT 4788 1015 USB dep Lyneham 1010 est Badofoff? 1420 std rel K selcall AJDH. ASCOT 4808 1026 USB dep Bruggen 0940/50 est LTAE 1445/55 std rel K + ops at LTAE + cyprus flightwatch selcall AKDM. Architect 1042 USB clg Ascot 4786 - Ascot ops req pp. AO adv only Badofoff? data available for addition to Volmet. Architect 1052 USB clg Ascot 4808 adv taf n/a for LTAE but have LTAC. taf will be updated in 05min. 4808 unheard. Lifter 2 1119 USB req Architect inform St Mawgan Ops eta 1145z. Lifter 1 1125 USB req wx, Architect responds at 1131 w/wx for EGHH & EGFF. ASCOT 4790 1129 USB dep EGDL 1110/20 eta ENDU 1530/40 Selcall AJCF relay K+ENDUYWYO. Lifter 1 1334 USB req wx for Bournemouth. Architect 1339 USB adv Ascot 5741 weak unreadable, req change to 6739. Architect 1404 USB confirms Ascot 5745 dep ENBO 1340/50 eta EGYM 1725/35 selcall AJHL std relay K+ KNFKORR. ASCOT 4818 1412 USB Dep Kinloss 1350/1400 est Keflavik 1615/25 st rel K+BIKFYWYX selcall AKBL. ASCOT 2639 1441 USB dep ENGM 1405/15 eta EGNT 1545/55, relay C+NCLAPXH. IFN 61 1445 USB dep Brize Norton 1340/50 eta Split 1620/30 relay C+SPIFFRR selcall CFAH. Lifter 21454 USB req Architect inform St Mawgan Ops eta 1540z. J8L 1455 USB radio ck & req taf for EGQK (tx partially obscured by a/f colour state broadcast for 1500) req to inform VOLMET that Kinloss is missing. M5D 1530 USB radio check. ASCOT 4783 1610 USB req taf for EGXT & forecast for EGVN selcall AKDL. HABIT 78 1635 USB radio check. req ck on 11. ASCOT 4342 0902 USB radio check. RAFAIR 3C 0913 USB formation (2 Wessex w/5 pob each) dep EGUB 0905 eta LFAT 1035. 2C04 0913 USB req actual for LFBD. G4C 0914 USB radio ck. 1KB 0931 USB radio ck. Req clear wkg designator w/Neatishead. Architect req change frequency to AG. ASCOT 1515 0942 USB dep EGDX 0915/20 eta ETUR 1045/50 std rel R3 selcall DJFK request Bruggen (ETUR) & Duttersdorf? (EDDL) wx. IFN 80 0945 USB requires actuals & tafs for LIPA LIPY LDSP LDZA LQBK may be known as LYBK (banjaluka) eta 1215 selcall AJLM. RAFAIR 3C 0948 USB formation req actual for LFAT. 2C04/2C05 0958 USB landing LFBD 1010 req relay to Odiham. RAFAIR 3C 1002 USB formation chasing wx for LFAT. 7BZ05 1004 USB radio ck. 2LN 1006 USB radio ck, will recall when airborne. RAFAIR 3C 1008 USB coasting out Lydd. IFN 80 1010 USB chasing wx - Architect responds w/all but no wx for Banjaluka IFN80. 7BZ19 1016 USB radio ck selcall AJCF. RAFAIR 3C 1028 USB coasting in LFAT landing in 2min on the ground for 1 hour relay to BEXQFRR. ASCOT 1445 1051 USB unheard. HABIT 7 1055 USB radio ck. IFN 62 1114 USB dep Bruggen ETUT 1045/55 eta Sarajevo LQSA 1300/10 selcall CFAH. ASCOT 5838 1116 USB selcall check AKBE. 2LN 1118 USB radio check. RAFAIR 2C04 2C05 1121 USB airborne from LFBD 1115 enrt LET?G eta 1515 req relay to EDVO (Odiham). ASCOT 5383 1128 USB dep EGAA 1110/20 eta EGGP 1200/10 selcall AJKF. PROSPECT 2 1145 USB selcall EFBK. U9D29 1200 USB ex EGVO on route Stafford eta 50 mins. ASCOT 4342 1203 USB dep Marham EGYM 1110/20 eta LIBV 1530/40 selcall AKDM. 7BZ19 1205 USB inquiring on no RP Settings at 1200 wants Skerry Portree Rattrae Tyne Belfast Orkney. U9D29 1225 USB landing Stafford closing down on this freq. E0H 1330 USB radio check unheard by Architect. Z2T11 1416 USB radio check Wessex ex EGOS at 1410 4 pob enrt EGUB flight time 50 mins, req relay to EGUB. Architect 1448 USB clg 3GJ w/actuals for ENZV. N3R 1455 USB req actuals for EKKA Architect came up w/wx at 1515. Z2T11 1459 USB closing down. ODM 27 1535 USB radio check Puma 4 pob ex EGOS 1515 eta EGVO 1625 relay to EGVO ops. B2W 1537 USB req further on dual scope? w/Neatishead made on designator UT - Architect check & state Neatishead unable to work dual freq at this time. NAVY ZR 1542 USB radio check. RAFAIUR 3C68 1546 USB radio check Wessex dep EGUB w/ 5 pob enrt LFAT no relay reqd. MIUF 1549 USB radio check. B2W 1550 USB req what designator Neatishead are wkg at this time. ODM 27 1553 USB req actual for EGVO. GNAY 1930 USB to Architect msg relay India.

Info Routine. (HMS Seagull -LOGS). ASCOT 4743 1939 USB dep Bruggen 1905, est Lyneham 2130/40 selcall AKCH std rel K & pp Lyneham Meteo. KITTYHAWK 20 0846 USB dep EGWU 0805/15 eta EKCH 0955/1000 std rel R selcall AHDF. IFN 80 0847 USB dep Leeming 0820/30 eta Banjaluka 1205/5 std relay K selcall AJDL + taf/actuals for LQBK & LDSP. 2PN 0848 USB radio ck. ASCOT 7057 0856 USB dep EGNX 0745/50 eta LFKB 1150/55 crew 10 pax 0 std rel T neg selcall. Habit 4 0858 USB unheard. Architect 0903 USB clg IFN 80 w/wx for LQSA IFN80 wants to know where LQSA is (Sarajevo). ASCOT 4745 0908 USB dep ENBR 0845/55 eta Lyneham 1115/25 std rel K selcall AKAM. K9C 0915 USB radio ck. IFN 59 0917 USB dep EGVO enrt ex LFOC std rel J. S4I 0921 USB radio ck. T1D92 Puma 0933 USB ex EGAA enrt EGQS coasted out in 5 mins. ASCOT 4290 0945 USB selcall AJDH. T1D92 0946 USB returning to EGAA - a minor electrical fault. F29 0955 USB req wx for Leeming EGXE and Linton-on-Ouse EGXU. ASCOT 9328 1006 USB std rel C + BIKFICEO dep EGIN 0932 eta BIKF 1205 selcall LMFG. ASCOT 9328 1009 USB Selcall check not from Architect(NOT!). IFN 80 1027 USB req pp Lyneham meteo req acts for LQNK. ASCOT 4290 1041 USB dep Lyneham 1020/30 eta EBFS 1145/55 std rel K (MH2)

4806 ASCOT 4806 0923 USB wkg Architect (C-130, XV200) dep Bruggen 0855 eta Akinci 1400 selcal AJCL standard relay K. The spokesman spelt the destination AKINCI, he had no ICAO identifier at hand, I checked my recent DoD flip, it says Akinci is LTAE, when I looked that up in the ICAO doc (from 1992) w/these ID's it came up with Ankara/Murted. Changed names since then? (BH)

4992 Cape Radio 0625 USB active w/USS Moosbrugger and USCGC Reliant w/rdo cks & status reports. (CM)NCWA: USS Moosbrugger (DD-980) 0329 USB HF R/C w/Cape Radio during space shuttle launch. (JP) NCWA: USS Moosbrugger 2216 USB (DD-980) wkg Cape Radio re status of launch of Space Shuttle Atlantis on attempt #1 of mission STS-76. KING 2: USAF HC-130 aero/rescue a/c 0702 USB wkg Cape Radio re secondary frequency, adv is 2822. KING 1: USAF HC-130 aero/rescue a/c 0705 USB wkg Cape Radio re is airborne w/ETA of 0750z in support of att #2 of STS-76. NCWA: USS Moosbrugger 0726 USB (DD-980) wkg Cape Radio re new frequency, Cape adv try 20390 USB (nothing heard there), at 0736 Moosbrugger back up here, Cape gives new freq of 3041. Was in support of Space Shuttle Atlantis on attempt #2 of: mission STS-76. NCWA: USS Moosbrugger 2209 USB (DD-980) wkg DoD Cape re status of launch, adv mission is 90% probable go for launch. (RB) Launch Support 0631 USB Cape Radio w/comms ck's. (TV)

5064 9MB: Penang, Malaysia 1750 CW marker "9MB 13/16/19" (MM broadcast). (JD2)

5152 SAM 206 0430 USB clg ANDREWS after moving here from 6712. (JH)

5290 TBO: Turkish Navy, Izmir, TUR 1929 CW "vvv vvv vvv de tbo tbo tbo t23c t23c t23c" marker. (MC)

5355 COFFEE TABLE: 1734 USB wkg FOOT ROPE. (RB)

5431.5 OSCAR 2300 USB w/heavy European accent wkg unid a/c w/interdiction ops...Bosnia-related (TB)

5435.5 ANDREWS 0309 USB wkg AIR FORCE ONE. (JH)

5680 Kinloss Rescue 0743 USB Wx. (AB3) SMG37 1600 USB wkg Plymouth Rescue said that if SMG37 diverted to Northolt they wouldn't be able to land at Trafalgar Sq tomorrow. Plymouth are looking for alternatives. (CH) Rescue 51, RAF Nimrod 0320 USB clg Plymouth Rescue. (DF) RESCUE 194: 0256 USB wkg RESCUE 51 during SAR case off English coast. Plymouth Rescue: 0318 USB clg RESCUE 51. (JP) Rescue Helicopter "WMU" 2118 USB wkg Kinloss Rescue. Informing Kinloss now airborne out of Stornoway & wkg Stornoway Coast Guard on VHF. (KH) KINLOSS RESCUE 2255 USB wkg RESCUE 137 w/posn report. (TB)

5690 Unid SS military sounding comms 0148 LSB here almost every night for the last few weeks, at 0214 ANDVT being used on freq. (BWS)

5696 CAMSLANT Chesapeake 0815 USB wkg Rescue 1716 and 1718. COMMSTA Honolulu 0742 USB clg cutter Polar Star (AB3) NOJ: Commsta Kodiak 0752 USB wkg "Rescue 6024" (AW) Group Galveston 2145 USB wkg C9R, adv they had another a/c that would be airborne at 1400 local (CST). From now, that is in about 9 min. App re a distressed vsl. (BWS) USCG aircraft 2126 (HU-25A) UTC? USB enrt to NAS Brunswick, Maine to refuel. After refueling, 2126 is to search for a possible vsl in distress in vicinity of Cranberry Island. Flares have been sighted.

2126 is based out of Cape Cod CGAS. (DW2) NOAA 85: NOAA a/c 2018 USB wkg CAMSLANT Chesapeake. Op at CAMSLANT was clueless until pilot explained who/what he was. CG Rescue 1702: 0757 USB wkg COMMSTA Honolulu for MEDEVAC, reporting "on deck Christmas Island." (JP) CAMSLANT CHESAPEAKE 1953 USB wkg CG HELO 6041 w/a posn report. RESCUE 6030 2000 FM comms w/St Petersburg & req CAMSLANT to secure their guard (MF2) A/C 8221 2358 USB wkg CAMSLANT w/radio check. (MJ) C9R: Unid, prob Falcon jet 0019 USB wkg NMN relaying patient vital signs from RESCUE 6023 (USCG HH-60J), adv 6023 enrt NAS New Orleans as closest point to land, req relay to Dist.8 will need ambulance for ETA 1940L. Unid medico. (RB)

5700 NIGHTWATCH 0459 USB wkg KINDLADY & DOCKHAND good/readable to 0541. (GG) ROWBOAT 1415 USB wkg NIGHTWATCH 01 in voice and data. At 1532, NIGHTWATCH 01 w/26-character EAM. At 1537, NIGHTWATCH 01 w/20-character EAM; then at 1547, NW01 adv ROWBOAT & WAR46 that he is going monitor-only for 30 minutes. At 1608, NW01 back up and wkg WAR46. NIGHTWATCH 01 0635 wkg ERRANDBOY. FOURSOME 1348 USB wkg NIGHTWATCH 01. At 1350, NIGHTWATCH 01 on 4742 wkg WAR46, moving WAR46 to 5700; at 1352z both NW01 & WAR46 are wkg each other on 5700. OVERHANG 0610 USB passing traffic to TOPNOTCH: "NIGHTWATCH is no longer in the net; "..."(could not make out) is no longer in the net; & WAR46 is on X208." At 0611, OVERHANG into ANDVT comms. All comms are awkward and hesitant -some confusion is apparent from context. NIGHTWATCH 01 0646 USB clg WAR 46, w/nothing heard & gone. WASHTUB 0427 USB wkg NIGHTWATCH 01 & entering the net. Also active: READYMADE. At 1541, WASHTUB clg NIGHTWATCH 01. WAR46 0142 USB clg & wkg NIGHTWATCH 01 for signal check; 0232, GEODETIC wkg NIGHTWATCH 01; 0254, NW 01 wkg HOTCAKE; 0309, CRAZYWEED clg & wkg NW 01 to enter the net. CRAZYWEED cud not perform a correct "challenge", so NW01 asked him to check his date & time, then call him back and try again. Still no good, so NW01 adv CRAZYWEED to verify that he is using "day 19, 0311" (the current utc time). That done, procedure was completed successfully. At 0313, GEODETIC exits the net. At 0537z, BROADLEAF w/26-character EAM. TIGEREYE 1357 USB clg/wkg NIGHTWATCH 01; enters the net w/NW01. CRAZYWEED on freq. At 1400, TOADSTOOL, stomping on TIGEREYE, calls NW 01 to enter the net. At 1402, ANDVT comms between TOADSTOOL & TIGEREYE. At 1540, YALEMAN wkg NW 01, & enters the net, & adv that X205 is also active - YALEMAN goes monitor-only at 1551. _____LINE (I'd sometimes hear it as TROUT..; CHOW; and FOUL.) 0509 USB wkg NW 01 to acknowledge traffic. At 1557, WILDMAN clg NIGHTWATCH 01. STARBIRD 0211 USB wkg NW 01, entering the net. VOCALIST 1417 USB clg NW 01, finally raising him at 1431z, & enters the net. NW 01 1433 USB clg & wkg WAR46 for signal check, & gone. DOCKHAND 0519 USB wkg KINDLADY discussing a 'T-quad.' By 0533 both stations were into sending time-standard ticks, w/a top of the minute time stamp "at the tone, 0534. "beep."" At 0849, DOCKHAND wkg NW 01, req a data circuit. NIGHTWATCH begged off, stating that his data equipment was busy w/higher priority traffic. OVERRATE 0021 USB clg NW 01. At 0124, NW 01 wkg "46". At 0307, JAYWALK (USN trained) wkg NW 01, & enters the net. At 0335, MOLECULE calls NW 01; wkg JAYWALK; then wkg NW 01, & exits the net. NW 01 1323 USB clg MODERATOR (USN trained). MISCHIEF 0510 USB wkg NW 01; at 0512, TWILIGHT calls NW 01, & exits the net at 0529. At 0731, MACARONI wkg NW 01, who is now a different opr (USN trained), w/unid (never could make it out) entering the net. NW 01 adv " " that MACARONI was in the net on 9017, but that NW01 had not had comms w/him in hours. NAMEPLATE 0707 USB clg & wkg NW 01. At 0721, NW 01 wkg WAR46 & req pp to a DSN 271 number. After numerous problems, WAR46 finally has a good circuit, & NW 01 completes his "hi 'n bye" connectivity check. FLAWLESS (EAM broadcaster) 0651 USB wkg NW 01 (USN trained). LONGEVITY 0455 USB wkg NW 01. PULLMOTOR 1242 USB clg NW 01 also at 1711. NW 01 1216 USB wkg WOODWORK. HIGHTIDE 0002 USB clg NW 01, & raising same at 0004. HIGHTIDE is exiting the net. At 0006, NW 01 wkg KEYLOCK, who enters the net. KEYLOCK asks NW 01 if he has traffic 5UEUDQ, w/the answer in the negative. KEYLOCK adv that he did not get a good copy of it, but since NW01 does not have it, they ignored it. KEYLOCK goes monitor only at 0111z (many players recently seem to go monitor only shortly after they enter these nets); back up at 0237. NW 01 0742 USB wkg

DAREDEVIL. (JH) WAR46 2258 USB w/req for signal check...no reply (TB)
5710 NIGHTWATCH 01: 0551 USB wkg Andrews w/comms ck. SAM 26000: USAF C-137C, Tail 62-6000 0621 USB wkg Andy w/pp tfc. (RB)
5711 KRFB: M/V Freedom Star (space shuttle booster recovery vessel) 0220 USB R/C w/Cape Radio during shuttle launch. (JP) Cape Radio: USAF ETR Cape Canavaral 2335 USB wkg booster recover ships M/V Freedom Star, M/V Liberty Star, re scrub of attempt #1 of launch of Space Shuttle Atlantis on STS-76, adv is on 24 hour hold. (RB)
5714 ARCHITECT 2300 USB w/wx report for various sites...thought this had switched to 5715??? (TB)
5716.5 FDG: French Air Force, Bordeaux 1957 CW "vvv vvv vvv de fdg fdg fdg ar" marker (MC)
5764 19E (RNZAF) 0800 USB wkg H0L & T87 w/voice & data comms, re RNZAF/Singapore Airforce joint exercise. (AB3)
5875 NAMEPLATE 0712 USB clg NIGHTWATCH 01 on self-id'd WHISKEY-102. Nothing heard (NIGHTWATCH 01 had actually requested this call on W106) so back to 5700. As soon as NAMEPLATE was gone, the freq lit up w/swbc IS tune. (JH)
6221 N2P: 1851 USB Unid mil Dutch accent clg 2DH German accent for radio ck. (BvR)
6333.5 IGJ43: Italian Navy, Augusta,I 2022 CW VVV IGJ43 mkr, new freq ex 6335.5. (RK)
6390 AQP4: Karachi Naval, Pakistan 1820 CW marker "AQP 2/4/5/6" (PN broadcast). (JD2)
6418 VTP5: Vishakhapatnam Naval, India 1620 CW marker "VTP 4/5/6" (VN broadcast). (JD2)
6467 VTG5: Bombay Naval, India 1810 CW marker "VTG 4/5/6/7" (BN broadcast). (JD2)
6461 GOLD 82 1553 USB wkg HOBBY 45. At 1558z, GOLD 82 wkg NASH 91. (JH)
6501 NRV Coast Guard Guam 0930 USB Pacific wx warning (AW)
6550 Coast Guard Center: Netherlands CG, 0518 USB wkg Coast Guard 03 (a/c). Also heard "Savannah" wkg CG 03. Does anyone know who/what Savannah is??? (JP)
6683 AFA3 Andrews AB 0925 USB wkg "Showtime 9" (AW) SAM 275 2055 USB wkg Andrews w/pp to CROWN, 275 had just landed at their destination & adv Andrews they would be departing again at 2330. (BWS) SAM 202 1721 USB wkg ANDREWS. (JH) AIR FORCE ONE 0120 USB wkg Andrews w/radio check on primary. AF1 heard every 15 minutes until 0235 with more radio cks. SAM 049 0252 USB wkg Andrews w/radio check. Other SAM flight also heard. (MJ) SAM 203: USAF C-20B (tail 86-02 0428 USB 0203) wkg Andrews VIP w/signal cks. Air Force 1: 0708 USB wkg Andrews Presidential w/comms ck's. TROUT 99: 0753 USB wkg Andrews w/signal ck. Executive 1 Foxtrot 1810 USB wkg Andy on the ground unid loc, pp CROWN. (RB)
6691 BOOMTOWN 1518 USB wkg BLUECHIP w/voice & data. BLUECHIP did not enter the NIGHTWATCH net until approx 3 hours later. TANKCAR 2333 USB wkg VOCALIST. Seemed to be having problems w/their data xmsns. Asked if "..using 674 and using Day 21B" and "using same key maps as they are using.." (modem and crypto chatter). At 2343, BOOMTOWN clg VOCALIST & adv VOCALIST that RECKLESS is trying to reach him via WHISKEY BRAVO. (JH)
6712 ACE 55 1757 USB wkg Croughton (C-130) pp Talon Ops: eta Andoya (Norway) 1900, req. meals. IFO 22 1740 USB wkg Croughton (C-21A!) pp DSN 480-8450 (EOC/Phantom): dep Zagreb 1015, arr LYBE (Belgrade) 1105 dep LYBE 1652 eta Frankfurt 1835. Same times for IFO23. Both IFO22 & IFO23 are on "change 1", ron Frankfurt. I was surprised to hear C-21's on an IFO callsign! SPAR 86 1609 USB wkg Croughton pp Andrews VIP: -> 667, heard Andrews clg on 6817, no Spar 86. 6712 again w/ Croughton: pp EUCOM (UCOM?): abt privacy key and VIP crypto. Call again airborne. (BH) EARL 77 0812 USB wkg Banter Ops via Croughton (JB) CROUGHTON 0651 USB w/active pp activity. Could not make out the a/c's call - maybe something "000465." BLUE 87 0608 USB clg CROUGHTON. At 0629z, OFFUTT up w/20/20/26 character EAM string over a 10 minute period. REACH 8V4 (self-id'd C17) 0618 USB wkg CROUGHTON getting wx for ROTA. ANDREWS 0511 USB clg CROUGHTON, no response heard. (JH) Cotam 0007: 1715 USB Copenhagen-Chambery,crew 3,6 pax. Cotam 0001/0005: 1630 USB Both going to Charm-el-Cheikh for peace conference. Cotam 0009: 1715 USB 34N-6E to Villacoublay, crew 4/2

pax. Cotam 0001: 1730 USB Saint Denis (Reunion)-Roissy,DC-8F. Cotam 0021 USB to Beyrouth. Cotam 0031 USB Istres-Villacoublay, crew 4, 4 pax, Mission TT23/326. Cotam 0009 USB to Cotonou, 6 pax. Cotam 0001 USB 43N-8E to Beyrouth, presidential visit. Cotam 08P6: 1225 USB N262 from "Medoc" squadron, to Waddington, Mission 9612043113. Cotam 08C5: 1710 USB Avord-Metz, Mission 1204146, crew 3/0 pax, N262. Cotam 0841: 0900 USB Istres-Solenzara, Mission 9614044091, crew 4/7pax, N262. Cotam 0843: 1830 USB trying to call Circus, also Spar 65 (C-20) going to Mildenhall & clg Croughton at the same time, plus Cotam 1555 to Circus vert & Cotam 2787 calling Circus Lilas all at the same time. Cotam 0842: 1630 USB N262 to Nimes.Mission 9612044077. Cotam 08K4: 1650 USB Saint Dizier-Ramstein,Mission 120411485, 7 pax. Cotam 08D9 USB Istres-Aix. All Cotam "08-letter-number" flights are the new TBM 700 liaison a/c, which are HF equipped. Cotam 1004: 1330 USB Istrana-Istres-Toul.Crew 8/3 pax/5.8tons cargo. Cotam 1046: 1530 USB A-310, Istres-Roissy,crew 6/8 pax. Cotam 1008: 1300 USB to Cognac, crew 6/65 pax. Cotam 1009: 1400 USB Avord-Orleans.end of mission. Cotam 1081 USB 55N-30W to Montreal. Cotam 1184: 1100 USB to Le Bourget. Cotam 1440 USB DC-8F from "Esterel" squadron, technical flight from Roissy. Cotam 1535: 1230 USB to Villacoublay. Cotam 1556: 1530 USB Toulouse-Stuttgart, crew 5/12 pax .GAEL a/c. Cotam 1821: 1330 USB to Mont de Marsan after refueling Cotam 0195 at 4830N/005W. Cotam 0195 is one of the two daily ASTARTE missions. Cotam 1832 USB Orange-Orleans, crew 4, 2pax, end of mission. Cotam 1962 USB Toulouse-Bruxelles, crew 7, no pax, then returning to Orleans. Cotam 2154 USB from "Bearn" squadron, landed at Stockholm. Cotam 2324: 1615 USB Grenoble-Roissy. Cotam 2332 USB from Norwich to Newcastle, mission 961441803. Cotam 2474: 1630 USB from Africa to Mont de Marsan. Cotam 2466 USB Solenzara-Dijon, crew 5, 40 pax, 2.3 tons cargo. Cotam 2986: 1725 USB Salon de Provence-Evreux, crew 4, no pax. Cotam 2998: 1530 USB landed Sarajevo. Cotam 2994: 1530 USB Solenzara-Reims,crew 4/2 pax/3.1 tons cargo. Cotam 2976 USB from Nancy to Limoges, crew 3 + 39 pax. Cotam 3063 USB to Cazaux. Cotam 3056 USB to Istres. Cotam 3065 USB C-160NG, 64-G. from Waddington to Orange, crew 5+3.2 tons cargo. Cotam 3190: 1000 USB Pau-Salon de Provence. Cotam 3196: 1725 USB Cazaux-Tours,crew 5,1 pax, 14.8 tons cargo. Cotam 3100 USB to Istres, had to circle for 40 minutes over the base, as it was closed to all traffic due to NBC exercise. Cotam 3200: 1500 USB to Istres. Cotam 3295: 1215 USB Solenzara-Reims,crew 6,9 tons cargo. Cotam 3294: 1320 USB Saint Petersburg-Villacoublay. Cotam 3393: 1710 USB Metz-Orleans, crew 6, no pax, end of mission. Cotam 3300: 1730 USB Pau-Orleans, crew 5, 8 pax, end of mission. Cotam 3403: 1315 USB Orleans-Pau. Cotam 3409: 1640 USB Metz-Orleans, crew 4/0 pax, end of mission. Cotam 3405: 1345 USB to Toulouse. Cotam 3402: 0945 USB Cahors-Pau, on a paradrop mission. Cotam 3401 USB 27N-Las Palmas. Cotam 3500: 1250 USB Solenzara-Ajaccio,crew 6, 76 pax(N"3500" seems to be permanently assigned to flights going in and out of Ajaccio,Corsica). Cotam 3500: 1338 USB Istres-Ajaccio,crew 7,89 pax, Selcal FJ-CP, requested selcal chk by his a/c number which was R53 (61-MY), but Circus Vert didn't have it in his list.C-160 selcals seem to be a rarity. Cotam 3500: 1330 USB to Bastia. Cotam 3500: 1400 USB Solenzara-Istres-Solenzara,crew 7. Cotam 3500 USB Ajaccio-Istres, crew 9, 83 pax, then going to Orleans. Cotam 3784 USB sending a "message type A" plus 2-letter authentication, then req wx for "airfields 1,2 and 3". The odd mission which can be heard from time to time. Cotam 3917: 1015 USB to Brindisi. Cotam 3919: 1450 USB Luxeuil-Evreux, crew 5, no pax, end of mission. Cotam 3921: 1300 USB Waddington-Cambrai,crew 5,30 pax,3.6 tons cargo. Cotam 3904: 1700 USB to Djeddah, belongs to "Anjou" squadron, coded 64-G. Cotam 3936: 1645 USB Mont de Marsan-Evreux, crew 5/ no pax. Cotam 3911: 1300 USB Cazaux-Reims, crew 6,65 pax,1.5 tons cargo. Cotam 3981: 1645 USB Istres-Evreux. Cotam 3928: 1600 USB Rochefort-Caen, crew 7/82 pax. Cotam 3950: 1030 USB Castres-Bruxelles, crew 5/70 pax. Cotam 3936: 1130 USB Cazaux-Mont de Marsan, crew 5/1pax. Cotam 3935: 1320 USB Hyeres-Saint Dizier, crew 5/7 pax/9 tons cargo. Cotam 3065: 1330 USB Hyeres-Strasbourg, crew 3/34 pax. Cotam 3968: 1630 USB Bordeaux-Pau-Toulouse. FNY 5341: 1730 USB 24N-016W to Dakar. FNY 5344 USB Kinloss-Greenwood. FNY 53A7 USB N262AEN,56S,Nimes, from Bruxelles to

Cardiff, then Kinloss. FNY 53B8 USB N262AEN,56S,Nimes, from Manchester to Kinloss. FNY 53B8 USB N362AEN, 56S, to Kinloss. FNY 53C9: 1130 USB N262 AEN, Nimes-Valencia-Lisbon. HAZE 55: 1730 USB to Andoya, clg Talon ops .stepping on Circus vert. Herky 100: 1430 USB C-130 from Araxos to Aviano,RON. IFD 06 USB to Calvi. IFO 22/23: 1730 USB Zagreb-LYBE-Frankfurt, also stepping on Circus vert who seemed to be used to it & patiently waited for his turn! IFOR 03: 1730 USB Istres-Orleans, crew 6, 55 pax,2.9 tons +2 RAPASAN. Reach 101JS: 1810 USB called by Croughton, no reply.New c/s .Exercise ...? SAM 56973: 1730 USB to Prague. Sentry 50 USB E-3 to Mildenhall but requesting diversion to Geilenkirchen due to wx, needing 35 rooms for the (large!) crew. Spar 67 USB to Zagreb. SPAR 86: 1615 USB wkg EUCOM w/VIP crypto/Privacy key. Spar 94: 1250 USB (Croughton) to Ramstein. (JP2) Unid 1352 FF spoken, any help w/ID please. (SB) (French AF "Circus" freq, Marjolaine 2 -LOGS)

6715 CHR: Trenton Military 0418 USB wkg Halifax Military for RTTY coord. Ment. using "west coast transmitter" several times. (JP)

6717 CASEY 01 0245 USB wkg ANDREWS (JH) NAVY 676 0220 USB wkg Andrews, QSYed to F576 (11153.5 kHz) for check. (RJL) AFA3: USAF Andrews MD,USA 1052 USB EE m clg SAM-518; this must be a relay via a European TX-site. (RK)

6730 AEROBATIC 2019 USB wkg NIGHTWATCH 01. FOURSOME 1436 USB wkg NW 01. At 1558, BROADLEAF wkg NW 01 (20-character EAM from NW01, then ANDVT comms). OVERHANG 0133 USB clg an unid station too weak to make out. SAM 26000 0558 USB wkg a weak ANDREWS w/pp activity; at 0604, TOPNOTCH wkg OVERHANG co-channel w/SAM 26000/ANDREWS activity, & neither seemingly bothering the other. OVERHANG told TOPNOTCH to meet him in 4-5 minutes on 5700 "for traffic." READYMADE 1431 USB (in the net since at least 0427z) clg NW 01. AIRFORCE ONE 0557 USB wkg ANDREWS w/pp to AFOC: arrival notice. CRAZYWEED & NW 01 1258 USB clg each other; but neither heard the other. At 1259, ANDREWS clg SAM 203. STARBIRD 0208 USB & NW 01 clg each other, but STARBIRD not responding to NW 01. LOGNEVITY 0458 USB wkg NW 01. PULLMOTOR 1442 USB w/28-character EAM broadcasts at 1442 & 1505. NAMESAKE 1500 USB w/26-character EAM, simulcast on 6730, 8968, & 11244. At conclusion, heard wkg a weak NIGHTWATCH 01. The GHFS, w/ANDREWS as the lead station, picked the string up at 1504. At 1618, NEONLAMP wkg NW 01 (USN trained). At 1647, NEONLAMP wkg WAR46, adv WAR46 to call NW 01 on S311 (11494). (JH) NIGHTWATCH 01 2012 USB wkg PRESSCAR. NW 01 2014 USB wkg OVERLORD who reports NW is fair/readable. NW & PRESSCAR played channel tag on these designators X903, X904, W108, P381, S309, W114. Andrews 2044 USB w/pp for REACH 91117 to Charleston meteo & CP. Andrews 2048 USB w/pp for 6 YANKEE LIMA to DNS# 831-3115 NAU PUERTO RICO NAVCOMSTA. Andrews 1955 USB w/pp for SAM 375. AGGREGATE 0025 USB wkg NW 01, Ag checking out of the net at this time. WAR46 0134 USB clg NW, no joy. BROADSWORD answers, then out. RAILVAN 0138 USB wkg NW 01 w/radio check. OVERDRAFT 0141 USB wkg RAILVAN... discussed the ole' T-quad. (MF2) NW 01 0201 USB wkg RAILVAN & OVERDRAFT w/radio checks. (MJ)

6731 SPAR 63: 1200 USB Contacting Tunis DAO prior to arrival there. (JP2)

6738 Unid: 1020 USB w/Two ops in Italian w/pp. (This supposed to be a Military frequency.) (AW)

6739 ASCOT 9040 0834 USB radio chk (JB) BEDSPREAD 0130 USB continuing w/ heavy "repeat" EAM traffic heard earlier from callsign GIFTSHOP, At 0155z, BEDSPREAD back up w/same EAM set but apparently dicontinued the xmsn in mid preamble of the first string, & no restart heard. GOLD 92 0645 USB clg MAINSAIL. (JH) CTM 1181: French Air Force transport a/c 0910 USB wkg Hickam Global w/wx req. ASCOT 3201: 0412 USB wkg ARCHITECT for wx info. NRN 395: Royal Netherlands Navy P-3 a/c 0355 USB wkg Offutt GHFS for P/P to NAS Jacksonville. (JP) GUYX 1103 USB clg Architect for pp (radphone facility) to FP2 MAFF control? (MH2) (GUYX is HMS Shetland P-298, an offshore patrol vsl -LOGS) SKYKING 2128 USB dna TQM time 21 auth SH. REACH 103JS 2240 USB clg Lajes ex Aviano to LLNV 25000lbs rolling stock & 34 pax. REACH 580BG 2328 USB clg Lajes. SKYKING 0014 USB dna TQM time 03 auth ZB (Albrook). Incirlik GHFS 0108 USB w/EAM 2WVSMU. REACH 30397 0151 USB clg Aviano command post via Lajes 'A1 eta 0820 only 3 pallets to offload and 2 SpaceA? the others broken, 82 duty packs' then Aviano

Metro. ASCOT 5870 1014 USB clg Incirlik, Architect answers. IFOR 32 1019 USB clg MAINSAIL. MAGIC 56 1214 USB clg Incirlik. ORM 1106 USB clg Architect msg relay to MKL for OIN ops normal 1100. ORM 1126 USB Info immdiate to OIN info EGQK ops off task eta base 1210 timed 1115z (sounds like a TA exercise). ORM 1153 USB request close down: Architect clearance granted at 1158. Incirlik GHFS 1549 USB w/eam 3BLAIV. HABIT 4 1615 USB clg Architect. IFN 84 1633 USB dep Bruggen? eta Lyneham 1745/55 (MH2)

6745 CanForce 1950: Canadian Forces a/c 1808 USB wkg Trenton Military re pp. (RB)

6754 VXA Canforce Edmonton 1025 USB Volmet wx to Canada (AW) MAGIC 56 1023 USB clg INY/MAGICMAN confirming on-station and bingo times previously satcommed. INY requests QSY UP to XE So XE is higher than 6754 - any WUN know where XE is?? There must be quite a bit of NATO/MAGIC activity there. (MH2)

6761 SAM 206 1700 USB w/pp to 692-XXXX & 877-XXXX DSN #'s. It appears that SAM 60206 is going to Peterson AFB, CO. SAM 376 called (415) 877-XXXX commercial #. This shows to be in San Bruno, CA. There is an airfield at this commercial # and SAM 376 will be landing there. SAM 376 1615 USB w/pp re a wiring diagram they need faxed to them. It is about the stove on their a/c. It isn't getting hot enough. They advised they needed the wiring diagram, otherwise, they would have to buy another oven while "on the road". They adv that the current oven won't last 6 or 7 days. SAM 202 and 206 are also on freq. At 1623, Andrews was calling TUFF #'s (who I don't hear). (BWS) SAM 206: USAF C-20B (tail 86-0206) 1611 USB wkg Andrews VIP w/pp re att to repair or replace inop oven. SAM 376: Special Air Mission a/c, 1629 USB wkg Andrews VIP w/incoming pp. (RB)

6779 DRKM: Kriegship Rhon 1809 USB clg DHJ59. DRAV: Kriegship Karlsruhe 1937 USB clg DHJ59. DRAS: Kriegship Rheinland-Pfalz 1559 USB clg DHJ 59. DRAO: Kriegship Luebeck 1823 USB clg DHJ 59 no joy. (BvR) DRDG: Unterseeboot U13 (S192) 2318 USB wkg DHJ59 w/RTTY coord. DRDV: Unterseeboot U28 (S177) 2345 USB wkg DHJ59. DRKF: Versorger (tanker or supply ship) Nienburg (A1416) 2359 USB wkg DHJ59. DRDR: Unterseeboot U24 (S173) 050027Z APR USB wkg DHJ59. (JP) DRKM: FGS Rhon (A-1443) 0038 USB German Navy replenishment-tanker wkg DHJ59 w/1 priority RTTY msg to send. DRDG: FGS U-13 (S-192) 0445 USB German Navy attack sub, clg DHJ-59 re RTTY coordination tfc. DRDV: FGS U-28 (S-177) 0459 USB German Navy 'unterseeboot', wkg DHJ59 w/conclusion of RTTY coordination. DRKF: FGS Nienburg (A-1416) 2322 USB German Navy underway replenishment ship, wkg DHJ59 w/ZBO, QRV. DRAV: FGS Karlsruhe (F-212) 2340 USB German Navy type-12 frigate, wkg DHJ59, Wilhelmshaven Naval w/1 priority msg to send. (RB)

6817 SPAR 76: 1230 USB transmitting data to SHAPE, going to Keflavik (JP2) (SHAPE is Supreme HQ, Allied Powers Europe -NATO HQ in Belgium - & SPAR 76 is C-9A tail#71-0876 opertaed by 55th Aeromedical Airlift Sqd, Det at Chievres, Belgium. SPAR 76 is usually reserved for SACEUR -Supreme Allied Commander, Europe -LOGS)

6830 Air Force 2: Vice Presidents a/c 2328 USB wkg Andrews w/pp CACTUS. (RB)

6870.5 FDI8: FAF Nice, F 1650 CW VVV DE FDI8 AR mkr. (RK)

6989 Army MARS 0445 USB w/net traffic. (CL)

6992.5 MFP34: RN Cadet station,G 1048 USB EE m sx to weak UNID M..... (RK)

6993 SAM 206/376 1710 USB were asked to check this freq (F-117). SAM 206 told 376 "it sounds like your transmitter took another hit". (BWS) NIGHTWATCH 01: 0726 USB wkg Andrews w/comms ck on F117. (RB)

7325 SAM 28000 0220 USB wkg ANDREWS. (JH)

7330 GASMASK 0354 USB clg wkg DOCKHAND; then wkg NIGHTWATCH 01. The powerful co-channel swbc musical selection (and ALE bursts) did not seem to bother the players. (JH)

7467 RIT: Russian Navy, RUS 1228 CW clg RJP55 DE RIT K. (RK)

7475 VOCALIST 1439 USB (USN trained) wkg NIGHTWATCH 01. NIGHTWATCH 01 1335 USB trying to work WOODWORK, no luck. At 1511, NW 01 wkg DIGNITARY. At 1548, NW 01 passes a 58 character (+/-) EAM (CREETN...) to dignitary, who misses all after item 14 due to a SELSCAN burst at that point. (JH)

7535 SESEF NORFOLK 1944 USB conducting radio tests w/USS CARTER HALL. At 1941 USB conducting radio test w/USS Pensacola (MF2) HOPPER 77: U.S.

Navy LCAC-77 1454 USB clg SESEF no joy. NNTR: USS Theodore Roosevelt 1520 USB up to transmitter #10 w/HF rdo ck's. NKZI: USS Pensacola (LSD-38) 1630 USB w/HF tests up to xmitter #3. 28 REAR: USN Convoy comms 1715 USB wkg 28 FORWARD w/rdo ck. At 1858 28 REAR clg RIGHT. Also hrd here next day w/same types of comms. NASO: USS L.Y. Spear (AS-36) 1733 USB w/rdo ck's. NVVV: USS Normandy (CG-60) 1813 USB w/HF rdo testing, all modes. NOGB: USS Mount Whitney 1903 USB (LCC-20) "Tech Control" w/HF rdo tests. NRWH: USS Hayler (DD-997) 1906 USB "Second to None", wkg SESEF, adv QSY 10315 for their testing. NEDO: USS Austin (LPD-4) 1907 USB w/req for testing after Mount Whitney is done. NDWQ: USS Detroit (AOE-4) 1910 USB "Fast Combat Support", w/rdo ck. NSVN: USS Nicholas (FFG-47) 2107 USB w/rdo ck. (RB)

7651.5 Y8M 2246 USB wkg E4J attempting to set up HF data frequency...sent once & 4J said to try again as he forgot to switch the envelope... tried again and 4J replied that he did not receive cryptolock (TB)

7687 ANDREWS 0301 USB wkg SAM 682. (INDIA/OSCAR freq). 0335z 'in the blocks.' (JH)

7747.5 OS: IFOR Bosnia? 2246 USB wkg 2OC passing track report for bulk carrier ELGF3, M/V EWL Rotterdam, OS was U.S. accented, 2OC had heavily accented EE. (RB)

7873 Andrews 0400 USB wkg unid a/c -152 w/QSY to "877" secondary. (BWS)

7917 FDC: FAF METZ 1027 CW Marker "vvv FDC" - badly cut tape. (DW)

8026 SAM 206: USAF C-20B (tail 86-0206) 0447 USB wkg Andrews VIP w/pp Howard meteo, wx for MNMG for 0540z. (RB)

8122 RAN Cairns control 0329 USB wkg RAN Darwin Control re:crew man going w/Qantas to Sydney then onto Nauru and Tarawa. LAVUAN 0338 USB wkg RAN Cairns Control. Who is LAVUAN? (SB)

8290 6YX: Jamacian JDF COAST GUARD RADIO KINGSTON, Jamaica 1255 USB wkg LARC2 NORA JAHER PRESIDENT (700 ft tanker) at unspec'd location 16 hours from Kingston enrt to Aruba. PRESIDENT on site with m/v CAMBRIA which was abandoning ship, picking up 16 men.6YX also wkg "KEY WEST" (maybe USCG grp), latter inaudible. (DC)

8297 AADT: USAV Aldie (LCU-2004) 0431 USB wkg AAC2 w/posn, status report. AAEI: USAV Churubusco 0515 USB (LCU-2013) clg AAC2. ADMO: USAV El Caney 1528 USB (LCU-2012), clg AAEI, no joy. (RB)

8490 AQP5: Karachi Naval, Pakistan 1440 CW marker "AQP 2/4/5/6" (PN broadcast). (JD2)

8634 VTG6: Bombay Naval, India 1630 CW marker "VTG 4/5/6/7" (BN broadcast). (JD2)

8646 VTP6: Vishakhapatnam Naval, India 1630 CW marker "VTP 4/5/6" (VN broadcast). (JD2)

8968 REACH 5 VICTOR 6 1824 USB wkg Sigonella via Thule. NIGHTWATCH 2022 USB wkg Andrews (JB) 0805 USB Very weak station (probably OVERREACH) wkg HICKAM; unable to raise NIGHTWATCH 01 on S304 or P381, so he places pp to NIGHTWATCH 01 and enters the net via the challenge process over the phone. Numerous stations 2118 USB passing single 3-element groups (TAW; BEL; and numerous other Txx and Bxx groups) to RENTAL CAR (or RENT A CAR). Stations such as ROVE 0# and TOWER ##. RENTALCAR. Also heavy 'repeat' EAM activity from GIFTSHOP on freq and // on 6739; 8968; & 11244, & variations of same. Major exercise. At 2206, HORNFOG (did not sound like HORNFROG) wkg RENTALCAR, passing "Test message FOXTROT ALPHA ZULU" - exact same message type as passed exactly one year ago (less one day) on 22 Mar 95 (Wed) from DOOLITTLE/FASTBALL (aka WGY 913.) Then TOWER 42 wkg RENTALCAR w/a 3-element group: TVK, and many more later. Co-channel qrm from GIFTSHOP with repeat EAMs and "AKAC 3-6-9 message of 8 groups." (JH) IFO 93 USB Tusla-Mildenhall, C-141 req waver for quiet hours. (JP2) NIGHTWATCH 01 1923 USB wkg RECTANGLE, 01 advises he is on S312 & X904. NW 01 (MF2) TIGEREYE: 1956 USB wkg Offutt GHFS w/"immediate pp request" to DSN 339 re req from MCC on status of part being shipped. (RB) M42441 2054 USB wkg Lajes wpp to McGuire, asked about bad wx & poor vis on east seaboard of US. May divert to Florida if no improvement. Pirep rpt posn 4141n/0170w 2054 F350 a/c type C-17. TITAN82 2215 USB wkg Graphite & Giant Killer?? ETA Barcus? 2215. Navy RM25 2215 USB wkg Lajes/p/p to DSN 450-5070. Dep.'92' 2104 ETA '791' 2225 ?? (RD3) XPH: USAF Thule,GRL 1845 USB EE m sx to REACH 18153 who req a pp to a TACC METRO for WX LERT LETO LEMO 2300. (RK)

8971 BLUESTAR 1918 USB wkg RED LANCER 08. BRAVO 1 MIKE 1923 USB req radio

check from SUN KING,no joy. BLUESTAR 1957 USB asking RED LANCER 08 if he copied him on the 101. (MF2) TRIDENT 720: P-3 VP-26 NAS Brunswick, Me, US 1958 USB wkg 5LU re BIRD DOG comms. (RB)
8974 PJK: Suffisant Dorp Naval Radio, Curacao, 1348 USB att R/C w/Falcon 01. AXI: Air Force Darwin, RAAF, 0915 USB wkg a/c (?) 212. Air Force Townsville (RAAF): 1122 USB R/C w/Air Force Perth. HUDSON 542: 0921 USB wkg Air Force Perth. HUDSON 541: 0829 USB wkg Air Force Perth. (JP)
8975 Striker-375 0248 USB wkg RAAF Townsville P-3 Orion of 10 sqd RAAF. TROJEN-028 0346 USB wkg RAAF DARWIN To Darwin. (SB)
8992 REACH 67945 0815 USB pp Hilda via Ascension. NAVY 147 2020 USB wkg MacDill. (JB) SAM "6973" 0330 USB wkg ASCENSION for a signal check. (JH) A0031: Portuguese AF USB this freq is used by many people. FNY 5342 USB to Keflavik, then Greenwood on the 10th.Posn report: 77N-12W, which seems to be a mistake, as it is really up North! (JP2) LC 010 2314 USB clg MacDill no joy. PRIMO 71 0015 USB wkg Ascension w/pp to DSN 440 xxxx, McGuire ops, metro. (MJ)
9007 Unid UTC? USB HR7S clg to check a military point. (PP2)
9014 SENTRY 60 1730 USB wkg RAYMOND 07 w/pp, getting wx for TINKER. GASER 41 1702 USB wkg RAYMOND 07 w/pp to a DSN 866 number,id'd as NICKLE OPS. RAYMOND 07 1928 USB responds to a call from RADIO MAINTENANCE. At 2118, HAWK 02 wkg RAYMOND 07, & places pp to a DSN 461 number for DYESS wx forecast for "low level IR 150." (JH)
9016 Heavy data activity with a GHFS & callsigned station - could not make out. BROADLEAF 1635 USB clg MACDILL, w/no response. MCCLELLAN 0324 USB wkg PACOM 01 throughout the local night. MACDILL 1536 USB wkg unid member of the NIGHTWATCH net. MACDILL 1557 USB wkg an unid station (could not make out the c/s) w/voice & long data transmissions. ROWBOAT 1839 USB clg NIGHTWATCH 01. At 1850, WAR46 clg & raising NW01 (unheard here.) At 2001z, RAISENET wkg NIGHTWATCH 01 w/clear & ANDVT comms. At 2011, AEROBATIC (phonetically spelled at 2014) wkg NW 01, & entering the net. (JH)
9017 NIGHTWATCH 01 1817 USB wkg a weak BLUECHIP, w/BLUECHIP entering the net, 9017 primary, P381/S310 secondary; w/RECKLESS in the net & using 11220 as primary. AT 1843 NW 01 (female opr) wkg MAILBAG, w/MAILBAG entering the net. At 1910, NW 01 adv MAILBAG that RECKLESS & unid station (could not make it out) are now monitor-only. At 1955, FOOTBALL wkg NW 01, & enters the net. NW 01 2146 USB w/62-character EAM: GKSDGQ... GRABBAG 2021 USB (USN trained opr) & WILDMAN attempting comms; 2022, SHUTOUT wkg NW 01 w/ANDVT comms. At 2108, GRABBAG w/26-character EAM. At 2110 POST___ (sounds like POSTMAN, & sometimes like POSTBED, then POST???) enters the net, adv active players are STEERSMAN (or SPEARSMAN;) GLADBAG;WILDMAN; POOLQUE; & SHUTOUT. At 2117, SHUTOUT (USN trained) wkg NW 01. At 2314, SHUTOUT passes some traffic to NW 01 - a rarely heard "SSCC Status Report" (the worst kind of letters to use when phonetics are not used -- it sounds like SSCC.) Anyway, they all begin with "SS001 "dtg", then into things like "Y" and "1". At the final "item 19," he said "NAS PATUXENT RIVER." NW 01 req a spelling of item 19 (definitely *not* USN trained); after a few moments of silence, SHUTOUT advised NW01 to disregard item 19. At 2348, STEERSMAN (now sounding more like SPEARSMAN) exits the net, & adv by NW01 to have a happy landing. ROOMRENT 0011 USB wkg NW 01, & enters the net. At 0122, SANCTIFY wkg TRUEMAN (pronounced true-man, not Truman, but take your pick - 6-character calls are very rare in the nets; 7 aren't.) TRUEMAN wants to check out of the net when NW01 becomes active in 5 minutes. At 0129, SANCTIFY (USN trained opr) wkg NW 01 & enters the net; at 0131, TRUEMAN wkg NW01 and exits the net. At 0200, SANCTIFY wkg STARBIRD. At 0204, NW 01 wkg STARBIRD who is now suddenly unheard here, and weak to NW. OUTCROSS 2301 USB wkg HIGHTIDE. DOCKHAND 0507 USB wkg NW 01. NIGHTWATCH net activity 1941 USB - a number of EAM strings fro m1941z+. At 2101, LONEACE (USN trained) clg NW 01; then ERUPTION wkg NW 01, & entering the net. At 2218, TESTHEAD (did not sound like TESTBED), calls NW 01, then calls BLUE LIGHTNING. The last being a very rare callsign-type (13-characters) on the nets over the past 4 years. Richard Baker noted a recent 13-character call (CHRISTMAS TREE) heard on a USN freq. NW 01 1556 USB wkg WAR46, req a check on X208 - nothing heard on 3134. At 1607, RECTANGLE wkg

NW 01. ANDREWS 1549 USB clg AIRFORCE ONE. At 1844, NW 01 calls BACKPACK. At 1915, HIBERNATE calls ACCOMPANY. At 2042, HIBERNATE w/ EAM xmsn leading the GHFS (3BLDLM...;) at 2044, HIBERNATE; at 2044, NW 01 w/the 3BLDLM... EAM, coincident w/GHFS rotation of same. RAINCOAT 15124 USB wkg NW 01. At 1530, RAINCOAT (ncs in the absence of NW 01; noisy background - individual reading same EAM string) w/ 20-character EAM. 1533, RAINCOAT w/26-character EAM string, simulcast on 6739, 9017, 11244 (GHFS bcst the string at 1537z+). At 1627, RAINCOAT w/26-character EAM, no // freqs found. After all EAMs, RAINCOAT would check with MODERATOR to assure he copied the strings. CORKWOOD 0124 USB wkg MACARONI. DEERSIGN 2059 USB clg NW 01; & raising same at 2100. PORTABLE w/EAM transmission, leading the GHFS rotation of same. NW 01 2252 USB clg TEXTBOOK; at 2254, NW 01 wkg PORTABLE; at 2300, PORTABLE wkg NW 01 & exits the net. At 2355, TEXTBOOK (USN trained) wkg NW 01, & goes monitor only for 2 hours. ASSOCIATE 0009 USB wkg NW 01; at 0011, SYMPHONY wkg NW 01 & enters the net. At 0040, NW 01 wkg WAR46, then SYMPHONY; at 0041, WAR46 calls NW 01 & requests "..to do a comm check for training purposes if it was ok with your guys over there." NW 01 begged off as being too busy. ASSOCIATE checks out of the net at 0318z. (JH) NW 0120 USB wkg WAR46 w/pp to DSN 276 xxxx. (MJ)

9023 WILDCAT 30 2350 USB wkg LAJES w/pp. "Something" 52 1537 USB clg WHISKEY ALPHA. (JH) DRAGNET TANGO: E-3C AWACS 1543 USB wkg DRAGNET UNIFORM, req he keep NCS. Later SIDECAR, DEERHUNTER up w/NORAD training comms. (RB)

9031 HABIT 1526 USB wkg Architect pp .... ext 7088, pp unworkable. RFR 3C formation 1308 USB wkg Architect (Wessex, 60 Sq.?) a/c weak. Strange, usually there are to figures following the '3C' bit. ASCOT 1511 1352 USB wkg Architect (VIP) (BH) ASCOT 2666 1107 dep Hannover dest Calgary selcal DHGL (JB)

9057 YALEMAN 1536 wkg NIGHTWATCH 01. At 1624, NW 01 (female opr) wkg SANDSTONE, SANDSTONE was another rare instance of a callsign who, when he unkeyed his mike, would have a very brief "pulse" (not dtmf-type) on his signal - this time a split second digital "whooshing" sound similar to the first split second of an ANDVT comm. Ground station, remotely keyed?? Or?? CORKWOOD 0125 USB wkg MACARONI w/a 'T-quad' (time-standard ticks & top-of-the-minute anns) & data xmsns. WOODWORK 1344 USB wkg NW 01. At 1445, WOODWORK goes monitor only for 2+ hours; & at 1458, NW 01 wkg DIGNE(A)TARY, who enters the net. DIFFICULT 1519 USB clg NW 01; at 1520, WAR46 wkg DIFFICULT; at 1521, NW 01 up on freq wkg DIFFICULT, confirming that DIFFICULT has two items of current traffic, GK and 5U EAM strings. At 1552, unk station (maybe NIGHTWATCH 01) w/225-character EAM taken from a 1539z GHFS bcst. During the second run-through of the string, the station faded into the noise floor of the receiver. AT 1636, NW 01 clg & eventually wkg WAR46 for a brief pp. (JH) NIGHTWATCH: 1753 USB wkg WAR46 for rdo ck on S309. (RB)

9120 AIR FORCE 1: 0710 USB wkg Andrews Presidential w/comms ck's on "5" (F005). (RB)

9122.5 WUG: USACE Vicksburg Dist 1539 USB wkg WUI5, WUG/A, WUB, WUJ4, WUB5, WUB2, WUB4, WUO, WUI5, all USACE stations for ck in to regular Friday net. (RB)

10192.5 DRKF: FGS Nienburg (A-1416) 1954 USB German Navy underway replenishment ship, wkg DHJ59 w/QRV. (RB)

10315 NRWH: USS Hayler (DD-997) 1918 USB "Second to None", wkg SESEF re UHF testing coordination. (RB)

10548.6 USS Tarawa & Neil Control OK, Coronado USB w/various tfc down in the grunge. These are all groundwave signals here, maybe 70 miles north. (HS) TARAWA 0352 USB clg 'any station this net' & wkg CORONADO. At 0445, NEIL CONTROL passes traffic to TARAWA & CORONADO: "Senator Dole will not be coming tomorrow." (Super Tuesday was the following day). (JH) NEIL CONTROL: 2300 USB wkg TECG REAR re tfc req, had to shut veh down re down to 1/2 tank of fuel. NLHA: USS Tarawa (LHA-1) 2311 USB wkg NEIL CONTROL re status. Boat Rig Ctl: Unid USMC/USN 2317 USB wkg NEIL Control re status. NEXW: USS Coronado (AGF-11) 2343 USB wkg NEIL Control re status. (RB)

10780 Cape Radio: USAF ETR Cape CanavaraL, FL, USA 1646 USB clg REACH 40067, no joy. WRPH: M/V Liberty Star 2132 USB wkg Cape Radio for

frequency assignment for launch of STS-76, Space Shuttle Atlantis (att #1), this is a Booster Recovery ship. KRFB: M/V Freedom Star 2137 USB wkg Cape Radio for same, both advised 5711 by Cape, this is also a Booster Recovery ship. (RB)
11110 Unid 65, USAF?: 2145 USB clg 66 "in the plain", then back into Parkhill voice encryption. (RB)
11155 RIT: Russian Navy, RUS 1432 CW RKZ DE RIT QTC 300 58 20 0036 300= FM RMP= NAWIP 021 .... (RK)
11175 IFO 60 0941 USB QSY ->13200. REACH 7F5 2139 USB wkg Ascension pp Rota PMSV, pirep 39n 6.06e (a/c unr). REACH 90017 2144 USB wkg Ascension (C-5A) pp Dover PMSV wx Westover + enrt turbulence (a/c unr). SHUCK 18 2148 USB wkg Ascension nh (a/c unr). RAIDER 57 2156 USB wkg Ascension pp Lobo (a/c unr). EV 18 0905 USB wkg Incirlik (US Navy?) pp DSN 624-5286 (Sigonella PMSV): req wx Sigonella 1430 and current -> 15016 ->11244 (Croughton). REACH 520BG 1104 USB (C-141)pp ...., C-141, tailnr. 60178 eta 1245, req 65k fuel. IFO 02 1116 USB wkg Croughton (IFOR) pp Ramstein CP, DSN 480-2121: arr QTZ 0928 dep 1025, eta Ramstein 1230, contact the 86th AMS to arrange transportation for 3 litter- and 9 ambulatory patients.Any ideas on QTZ? Could it be TuZla? SNOOP 56 1339 USB wkg Incirlik (C-135, 55 W) pp Banter, Incirlik didn't know Banter, pp DSN 238-2733 (95th RS): relay to the recovery officer (name) eta 1540, ops normal. REACH 50009 USB wkg Incirlik (C-5B) pp PMSV wx .... 2100: We're over Saudi Arabia, do you really want a pirep? REACH Z1 1528 USB wkg Incirlik (C-141B) pp Hilda East: tailnr. 60161, etb OEDR (Dahran) 1800, A2 nr 1 VOR, nr 2 HF :-((, pp Hilda PMSV wx OEDR, OBBI(Bahrain), OERK (Riyadh, King Khalid) 1800. REACH 3V1 1528 USB wkg Incirlik (C-5A) pp Hilda East: C-5 tailnr. 90010, inbound Aviano for quick turn, then Lajes, confirm ron Lajes: yes. pp Hilda PMSV wx Aviano 1730. pp Aviano CP: same, now sayin ron Aviano! REACH SA27 1558 USB wkg Mainsail no joy. strange c/s. REACH 101DT 1619 USB wkg Croughton (C-17A) pp PMSV wx Ramstein 1945, pirep: C-17 fl310 3545n 2215e. REACH V5 1641 USB wkg Croughton pp USAFE PMSV wx Sigonella 1900. pp DSN 624-5578 (Sigonella ATOC): eta 1900. REACH 100M 1051 USB wkg Incirlik pp Ramstein PMSV wx Frankfurt 1255, also wkg Andrews, Ascension ->15016. REACH 7F8 1036 USB wkg Incirlik (C-141B, 67-0025) pp Sigonella ATOC: eta 1305. pp PMSV, wx LICZ, pirep: C-141, fl350 (couldn't read posn, too weak). 1518 pp Rota ATOC: eta 1800, tailnr. 70025. REACH 00535 1036 USB wkg Croughton (C-17A, 90-0535) pp USAFE PMSV wx Ramstein 1315, pirep: C-17, fl270,4346n 018.09e, coming out of Lajes. AIREVAC 10E1 1329 USB wkg Croughton (C-9) pp 86 AME: abt patient transportation, eta Rota 1415. REACH 81411 1323 USB wkg Incirlik (C-141B, 66-0149) pp Hilda East: tailnr. 60149, eta LTBA (Istanbul) 1420,A1, user req. dep. LGAD (Andravida, Greece on the 31st of march: call again later. pp PMSV wx LTBA 1400. REACH 11S2 1809 USB wkg Ascension (C-141B) pp Ramstein CP: dep Aviano 1735, eta Ramstein 1945. pp PMSV wx ETAR 1940, pirep: C-141, fl350, 45n 11e. TITAN 82 1829 USB wkg Ascension (C-130, USMC) pp Lajes PMSV, wx Lajes 2100 (BH) NAVY RX667 2300 USB w/pp to 874-XXXX (VR-59 at NAS Dallas) adv they were having a mechanical problem. 667 adv their EPIRB was "inop" and they were about 2 1/2 hours out. 667 adv they had a "full crew day". (BWS) REACH TANGO 1 1241 USB pp Ramstein via Croughton pirep: C-5 41.34 North 12.6 East. REACH 50277 1329 USB pp Ramstein AMCC via Incirlik dep CYQX. SPAR 66 1033 USB at LERT waiting for DV. DERBY 54 1501 USB wkg Scott AFB. (pp to Scott? -LOGS) PAT 895 1715 USB pp Ramstein via Incerlik pirep: C-20 code 52 on board. REACH ZULU 1 2020 USB wkg Lajes Met via Ascension. DOGGY 1 1949 USB wkg Andrews. NAVY LD013 1955 USB wkg Andrews. REACH 24101 1235 USB pp Mildenhall via Incirlik. REACH 106JS 1238 USB pp Hilda East via Incirlik pirep: dep Aviano des KJVO (?) Tail no. 80266. PATRICK 66 2053 USB wkg Lajes. YANKEE 91 0826 USB pp Mildenhall via Lajes. SAM 01 1321 USB pp USAFE Metro via Croughton pirep: eta LLBG 1500Z. TUFF 12 and 13 2030 USB wkg Mudbug Control via Ascension req low-level routing info & ETA for Barksdale. (JB) FLAWLESS 1456 USB clg MCCLELLAN; then MAINSAIL; & raising ANDREWS. Signal check and gone. OFFUTT 1459 USB as lead GHFS station, w/20-character EAM "FOR THRUST." At 1503, OFFUTT w/20-character EAM "FOR THRUST." CHOPHOUSE 2133 USB (maybe; sounds like) wkg ASCENSION getting wkg freqs for NIGHTWATCH 01: P383/X904. SANCTIFY 1413 USB

wkg MACDILL getting wkg freqs for NIGHTWATCH 01.(SANCTIFY had entered the NW net at 0129z). OFFUTT 1800 USB as lead GHFS station, w/a 20/20/26 character EAM set over a 15 minute period. NASA ONE 1359 USB wkg MACDILL w/pp to 800 number. MODERATOR 1720 USB wkg MCCLELLAN w/pp to NIGHTWATCH 01, placed after failing to raise NIGHTWATCH 01 on the current active net freqs. DEERSIGN 2055 USB wkg MCCLELLAN. BANDSAW GOLF 1806 USB wkg OFFUTT w/pp to RAYMOND OPS. DARK 44 0212 USB wkg ASCENSION w/pp to DYESS weather. DOOM 80 0525 USB wkg HICKAM w/pp to MUDBUG - a hung-up weapon which will shortly result in an IFE declaration. SAM "6973" 0328 USB active. ASCOT 2702 1531 USB (sounds like) wkg MACDILL w/pp's involving ROSY ROADS, PR. At 1539z, ANDREWS, as lead GHFS station, with 225+/- character EAM (GKMYW5...). (JH) AAEH: USAV Macon (LCU-2005) 1137 USB clg "any Air Force Global Station." (JP) ADMO: 0930 USB calling Mainsail. Reach 18155: 0915 USB to Mildenhall, then Keflavik. Reach 22U7: 1925 USB N 40518, from Bridgetown to Roosevelt Roads (TBPB-TJNR). Reach 42473 USB C-141, 40N-12E to Rota. Reach 502SE USB to Ascension island,A2, crew 10 + 15 pax. (JP2) Albrook 1925 USB w/pp for DOG 09 to FURIOUS (DOG 09 is a C-130). (probably DAWG 09, Georgia ANG C-130, 165th AS at Savannah Nat'l AP, Ga -LOGS) Albrook 1912 USB w/pp for REACH 7 HOTEL 5 to Lobo & Hilda America. Albrook 1944 USB w/pp for SPAR 84 to Andrews base ops & meteo. MacDill 1933 USB w/pp for AEROVAC 622 to DNS# 576-2311. MacDill 2008 USB w/pp for FELIX 61 to FELIX OPS. Andrews 2044 USB w/pp for NIGHTWATCH 01. Ascension 2050 USB w/pp for MUSIC 87. Ascension 2055 USB w/pp for REACH 50235 DOVER CP & meteo. Albrook 2008 USB w/pp for REACH 70165 to Charleston CP & meteo (C141). Albrook 2017 USB w/pp for HERK 86 to a DSN#. Albrook 2021 USB w/pp for SHARK 62 to Lobo. Albrook 2030 USB w/pp for SHARK 62 to RAYMOND 9. Andrews 2008 USB w/pp for REACH 3 VICTOR 2 to TACC AMERICA. Andrews 2013 USB w/pp for REACH 68304 to DNS #589-3571 CASINO. Albrook 2038 USB w/pp for HERK 86 to LOBO & to a DSN #239-4439/ 239-5964. Albrook 2039 USB w/pp for CINDY 35 to Roosevelt Roads meteo (35-C130). Albrook 1929 USB w/pp for PEEOT? 82 to Hill AFB CP & meteo. Andrews 1953 USB w/pp for REACH 70043 to Charleston CP & meteo. Andrews 1954 USB w/pp for MODERATOR to NIGHTWATCH. Andrews 1958 USB clg MODERATOR, nothing heard. Andrews 2000 USB w/pp for TITAN 82 to TITAN Base & Cherry Point meteo. Ascension 2007 USB w/pp for PACOM 01 Presidential Airways, PACOM 01 requests wkg freq F267, discrete freq denied due to Andrews lack of spare antenna. PACOM 01 was requesting 9016. Andrews 2011 USB w/pp for MAGIC 58 Andrews CP. Albrook w1952 USB w/pp for SHARK 45 to Lobo. LOBO 046 1954 USB req HF radio check from MacDill, clear & readable. Albrook 2003 USB w/pp for REACH 70164 to FURIOUS & Howard meteo. NATO 39 (British accent) 2015 USB clg Andrews, no joy. Ascension 2019 USB w/pp for NATO 39 to Andrews meteo. Andrews 1923 USB w/pp for CARDFILE 711 to Navy Opcon. SOCOM 79 1912 USB clg MacDill, no joy. Albrook 1918 USB w/pp for SHARK 43 to Lobo. Albrook 1920 USB w/pp for REACH 1 TANGO WHISKEY to HILDA meteo. Albrook 1923 USB w/pp for ADMP to Raider. Albrook 1946 USB w/pp for SHARK 42 to Lobo. Ascension 1948 USB w/pp for REACH 90027 to Mildenhall CP/AMCC & meteo. Albrook 1919 USB w/pp for SHARK 19 to Lobo. Albrook 1954 USB w/pp for SHARK 46 to Lobo. Ascension 1957 USB w/pp for REACH 40638 to Mildenhall CP/AMCC & meteo. Andrews 2021 USB w/pp for FLOOD 05 to DSN#872-4580I Gasser Ops. Ascension 2024 USB w/pp for SHARK 26 to Howard meteo. Albrook 1828 USB w/pp for SHARK 47 to Lobo. Albrook 1831 USB w/pp for SHARK 87 to Lobo. Albrook 1832 USB w/pp for SHARK 42 to Lobo. Albrook 1834 USB w/pp for SHARK 43 to Lobo. Albrook 1835 USB w/pp for SHARK 41 to Lobo. MacDill 1841 USB w/pp for STING 10 to a DSN#. Albrook 1845 USB w/pp for SHARK 87 to Lobo. Ascension 1902 USB w/pp for REACH 42487 to Murrow? meteo. Ascension 1904 USB w/pp for REACH 7 NOVEMBER 1 to Rosy Roads,PR meteo. BAYONNE 1912 USB wkg SAM 206. Ascension 1915 USB w/pp for REACH 42504 to Hilda CP & meteo. Albrook 1917 USB w/pp for SHARK 44 to Lobo. (MF2) OTIS 20 (KC-130 Cherry Point MCAS?) 2306 USB wkg MacDill w/pp to Home Plate. LC 010 2319 USB wkg Andrews w/pp to DSN 476 xxxx. PRIMO 71 (KC-10 March AFB) 0010 USB clg Mainsail, gets Ascension, is told to QSY to 8992. Navy LD 931 0014 USB wkg Andrews w/pp to DSN 284 xxxx, Howard AFB. (MJ) S7M: Unid USN vsl 0719 USB wkg Albrook GHFS w/pp Roosevelt Roads, PR, S7M re they meet him on "ship

to shore", probably RATT as they stayed up on 11175 until they 'had' him. (RB) Incirlik 1625 USB wkg REACH 7F5, suggest they cancel flight to Riyadh (Saudi Arabia) as they have had 14 inches of rain & 3 inches of hail today, suggest divert to Sigonella. (RC) USAF REACH 80171 1315 USB EE m sx to Incirlik, p/p to HILDA America. USN JM8A1 1720 USB EE m sx p/patch to A-TOC(?) 624-5371, ETA Sigonella 1830. USAF REACH-90090,USA 1725 USB EE m sx clg MAINSAIL, raising ASCENSION, for pp to Lajes AMCC, tail-no 50272, est. Lajes 1935. (RK) DARK 42: [B1-B?] 1656 USB calls DSN 682-4878 [Nellis AFB, Nevada]. Over Colorado en-route to range [bombing?]. Plans to be "holding at 18:15Z". HUSS 12: 1701 USB called by 246-9480 ["Coyote" at Kirtland AFB, New Mexico]. Estimates home station [Kirtland] by 2040Z. Sierra 41: 1725 USB tells Travis in "anchor 649" that sec. "GRIZZLY" is canceled, mentions that he is refueling, wants to continue contact and rendezvous with Sierra 42 and Sierra 43 as he has two people "dropping dead on receiver work". TUFF 12: 1729 USB called by DSN 781-3690 [Barksdale AFB, Louisiana] TUFF 13 is on the ground but is about to take off for rendezvous with refueling fighters [possibly low level]. TUFF 12: 1747 USB gets a phone call from "126" [through MacDill GHFS] re his refueling mission. IR174 "low level" is specifically mentioned. KBIF: Biggs AFB, El Paso, Tx 1750 USB wx given to REACH 80225[?] a C-5 at 4154N 08332W. PUMA 01 1957 USB clg MacDill several times, any idea who uses this call sign? Executive 1 Foxtrot 2313 USB gets p/p to DSN 858-5333. (TR) 6YL 2052 USB w/pp to DSN 831-3175 via Andrews Global. 6YL asked NAVCOMMSTA Roosevelt Roads if they received 6YLs 004-007 message traffic sent over "primary ship to shore." IFOR 2A 1928 USB w/pp to Ramstein Metro via Ascension Global for a 2045Z arrival time. Second patch was to Ramstein CP, passing ETA and A-1 status. 27 (or 37?) pax & two pallets. MAGIC 58 1243 USB clg & radio-checking Albrook GHFS, then req "actuals" & 1700Z wx forecasts for "BOS and KBGR." Albrook put them through to Dover Metro. BASS 01 (British accent) 2118 USB radio-checking Ascension Island GHFS & req wx for Jacksonville (KNIP) at 0200Z. PUMA 01 2135 USB w/pp to RAYMOND 37 via Ascension Global. PUMA 01 asked Dyess CP if they had any traffic for the wing commander. Response was negative, and PUMA 01 advised RAY 37 they were 30 mins out from Dyess, & terminated the patch. SKY CHIEF 1912 USB clg MAINSAIL. Answered by Elmendorf, but stations were too weak to work each other. RAM 25 1703 USB clg MAINSAIL "on 5696" 25 then corrected himself & said 11175, but never got a response. SPAR 19 1759 USB w/pp to HILDA via Bayonne Global. SPAR 19 adv they were tail # 10327 & had departed KMCF at 1751Z, w/a 0630Z ETA at HECA, and had 16 pax. CINCCENT EC-135Y #61-0327. RAZOR 01 1906 USB w/pp via MacDill Global to Langley AFB Metro at DSN 574-7428 for a 2120Z forecast. Next patch was to a DSN 858 exchange, adv their ETA at Andy was 1830L & theyd be RONing, staying at the Colony South. Third patch was to a DSN 574 #. RAZOR 01 adv Langley Dispatch they were an EC-135 w/a 2120Z ETA & that they'd be dropping off two people, then departing. RHET 01 1932 USB w/pp via Ascension GHFS to a DSN (CENTCOM Command Center, MacDill AFB). Upon pp initiation, 01 adv "Command Center, RHET 01, passing for EC-135 secondary" no response from pp party. Ascension advised QSY to 13204, no joy, & when RHET 01 was re-contacted on 11175 they adv Ascension that they would try to contact their party via a different frequency or means. Probably related to my 091759Z APR 96. REACH 131XX 1923 USB w/pp to Ramstein Metro via Ascension GHFS for Mildenhalls 2300Z wx. 131XX was a C-141 at 35-09N/009-40W FL 320. Next patch was to Ramstein CP. 131XX advised they were tail # 59413, ETA Ramstein 2225Z and were A-1 with no cargo & no pax. McClellan GHFS 2027 USB w/an all freq request for BEARTRAP, req BEARTRAP contact McClellan on 11244 or 15016. NIGHTWATCH 01 1943 USB clg McClellan Global "with FLASH traffic." No response. (TT)

11176 AIRCRAFT 475 0616 USB clg any station for radio check; then moved to 11175, raising MACDILL. (JH)

11178 SPARROW 01 2130 USB adv PJB that 01 was ops normal, and was overhead PB1 was they were checking the Curacao (Netherlands Antilles) coastline. P5KT 0010 USB trying to run data w/PJK. PJK was extremely weak, & P5KT req they contact them via INMARSAT. (TT)

11181 HAWK 84: B-1B crew training sqd 2016 USB Dyess AFB, Tx, wkg McClellan

GHFS on a discrete w/pp to Dyess meteo. (RB)
11187 BOOMTOWN: 1819 USB wkg COASTAL w/RTTY coordination comms, ltr callword sounded like CHRISTMAS TREE came up in net. (RB)
11205 ARCHITECT: RAF Upavon,G 1655 USB EE m sx to 5OX, passing a req from BUCHAN: "BUCHAN requests PCS". (RK)
11214 CASEY 01 0248 USB wkg ANDREWSs here.) At 0348, TRENTON MILITARY wkg "SIERRA" w/pp to RAYMOND 24 for wx. TRENTON asked for his 'front end callsign' but I missed it in some local qrn. SENTRY 40 1654 USB clg & wkg RAYMOND 24. (JH) Andrews 1948 USB w/pp for SAM 203 to UNID. (Discussions regarded the rewording of a document for the UN). Second pp involved something to do with the press. SENTRY 49 2027 USB req radio check from RAYMOND 24 on Charlie 6. Andrews 2033 USB w/pp for SAM 203 to Howard meteo. Andrews 2039 USB w/pp for SAM 203 to DSN#202-359-6087, at 2057 req a switch to 89 (F89-13204). (MF2) SAM 050: USAF C-20C tail 85-0050 0054 USB Special Air Mission a/c, wkg Andrews VIP w/end of pp. (RB)
11220 TINWIPER 1355 USB clg NIGHTWATCH 01, w/no response. ANDREWS 1318 USB wkg SAM 202 & SAM 375 (w/SAM 375 & 202 wkg each other as well). SAM 206 may have been in here as well. CHOPHOUSE 2152 USB (sounds like) clg NIGHTWATCH 01. GIFTSHOP 2100 USB w/26-character EAM, simulcast on 11220; 8968; & 11244. (3BOE5S...; repeated often throughout the afternoon). At 2148z, NW 01 passing a self-id'd "three-six-nine message of 8 groups." This 369 message repeated throughout the afternoon as part of GIFTSHOP's "repeat" EAM bcsts. OWNERSHIP 2253 USB wkg NW 01, & entering the net. Unid station 0129 USB (did not catch id) wkg NW 01; & GASMASK & WASHTUB in the net also. ANDREWS 1933 USB wkg SAM 375. RECTANGLE 1609 USB wkg NW 01, & entering the net. (JH)
11220 NIGHTWATCH 01 USB wkg HIBERNATE (male opr, USN trained): "Relay via " "(missed it) & introduce following message into AUTODIN to ALPHA," then into 26-character EAM. NW 01 requested an injection time, but no such time was heard on freq.The GHFS ran with the string at 1646. At 1631, someone popped up on freq & seemed to id the freq as 6761. At 1636, ANDREWS wkg SAM 204. At 1701, EXTRADITE wkg NW 01, & enters the net. At 1709, HIBERNATE (female opr) with 26-character EAM, //11220 & 9017. At 1842, BACKPACK wkg NW 01. At 2131, BACKPACK wkg NW 01 w/ ANDVT commms; then at 2139z, BACKPACK exits the net. NW 01 1721 USB wkg MODERATOR. DEERSIGN 2041 USB clg NW 01. CHEWGUM 2021 USB clg something that sounded like SKYCHIEF. (JH) NW 01 1947 USB is up. NW 01 1924 USB is up & barely readable, net sounds very busy (MF2) NIGHTWATCH: 1755 USB wkg WAR46, STATEROOM, for rdo cks on S310. SAM 682: (73-1682) USAF C-9C 1816 USB Special Air Mission a/c, wkg Andy w/comms ck's, had been E1F just prior to switch here. (RB)
11226 TOADSTOOL 1704 USB clg CRAZYWEED. At 1716, CRAZYWEED wkg NIGHTWATCH 01 w/ANDVT comms. That would have the CRAZYWEED callsign active for over 14 hours. ANDREWS 1401 USB wkg SAM 681, w/pp's. (JH) SAM 681: USAF C-9C tail 73-1681 1637 USB wkg Andrews VIP w/signal ck's. (RB)
11229 SAM 375 1703 USB wkg ANDREWS. NIGHTWATCH 01 2009 USB after moving here from 9017, wkg WAR46; adv WAR46 to "maintain, & terminate LL." NW01 must've just come off a monitor-only period. At 2014, SHUTOUT wkg NW 01 & entering the net. SHUTOUT adv that GRABBAG, WILDMAN, & POOLQUE are also in the net. At 2034, NW 01 w/a 26-character EAM, //on 11229 & 9017. At 2043, CHEERSMAN (sounds like) wkg NW01, & enters the net. DEERSIGN 2042 USB clg NW 01. (JH)
11232 SENTRY 58 1819 USB clg EDMONTON MILITARY, w/no response & gone. (JH) TRENTON MILITARY 1928 USB w/pp for INDIA FOX 1 BRAVO (MF2)
11235 AUSSI-095 0343 USB wkg RAAF DARWIN (SB)
11243 Unid station 1440 USB (no id given) w/an occasional "Test, one, two. One, two, three." At 1552, HOBBY 45 wkg GOLD 82. AT 1557z, NASH 91 wkg GOLD 82. Moved to 6461.0. (JH)
11244 CATBIRD 0909 USB wkg Croughton (VP-3A) pp .... base ops: airborne, eta 11:00 local, need 8k fuel, fuel truck on arrival due to tight schedule (BH) Elmendorf 1930 USB wkg Navy RV387. (EG) MCCLELLAN 1448 USB, as lead GHFS station, w/89-character EAM: CRWYAD.. At 1547, MCCLELLAN w/20-character EAM "FOR TURMOIL." At 1622, MCCLELLAN w/ 20-character EAM "FOR TURMOIL". MCCLELLAN 1248 USB as lead GHFS station, w/97-character (+/-) EAM: CR45K.... TINWIPER 1347 USB (sounds like) wkg ANDREWS looking for NIGHTWATCH wkg freqs. ANDREWS

gave him S310/S311, & told TINWIPER that if he could not raise NIGHTWATCH 01 on those freqs, to come back to 11244 & ANDREWS would try to help him some more. Then TINWIPER had ANDREWS place a pp to VQ4 OPCON, & TINWIPER passed his 'immediate' traffic: 11 3-element groups. OFFUTT 1513 USB as lead GHFS station, w/26-character EAM string, at the approx 1515z+/- Saturday EAM xmsn window for these things. During the 1515 MACDILL rebroadcast, the MACDILL mike was picking up another radio at his location w/the AAOU/ALBROOK pp comms concurrent on 11175. MACDILL 2001 USB w/numerous "all frequency requests" for NIGHTWATCH 01. At completion of the unsuccessful calls, ANDREWS called MACDILL on 11175. At 2005, someone w/"message of 1 group." At 2006, ROVE 01 (sounds like rove) clg RENTACAR (or RENTALCAR), w/no response. At 2015z, ROVE 02 (sounds like) clg RENTACAR/RENTALCAR. Then passing 1 group as follows: "item 1; item 2; item 3" (w/alpha characters for each item). OFFUTT 1304 USB as lead GHFS station, w/20-character EAMs "FOR SECRETARIAL" at 1304 & 1317. OFFUTT 1517 USB as lead GHFS station, w/26-character EAM string (preceded by a FOXTROT broadcast). PUSHBALL 1500 USB wkg OFFUTT, getting NIGHTWATCH wkg freqs: X904; S312. ANDREWS, 1333 USB as lead GHFS station, w/two 20-character EAMs "FOR OBTUSE". ALBROOK 1410 USB wkg SAM 681 w/pp to ANDREWS. ANDREWS VIP gave him F311 as his wkg freq. DIFFICULT 1514 USB wkg MACDILL w/pp to NW 01 for net wkg freqs (S309/S311). NW 01 also asked if DIFFICULT knew status of REAFFIRM (active earlier in local morning on 5700) Negative. (JH) Albrook 2300 USB clg BISCAYNE 39 w/all frequency request...no reply heard. AGGREGATE 0021 USB wkg Andrews, requesting NIGHTWATCH frequencies. (MJ) Elmendorf GHFS: Ak, US 1630 USB wkg REACH 0005 w/pp Andrews CP. (RB) COBRA 06 1737 USB w/pp to a DSN at Offutt via MacDill Global. 04 adv OPS that they needed a Maintenance Supervisor & Operations Officer on-line, reference a Digital Fuel Panel readout problem (the display was flashing!). 06 was on the way to Barksdale to pick up some passengers, but had to return to Offutt to get the panel replaced, & then was going to be back on the way to Barksdale ETA Offutt 1935Z. CROWN 63 2035 USB w/pp to (European) DSN 330-7422 via Thule. 5 minutes later, Thule adv there was no one there at Rhein-Main Metro, so Thule would get CROWN 63s 2100Z Rhein-Main forecast from another source. BEARTRAP 2029 USB contacts McClellan & adv they've tried to reach them via landline, but all the #s BEARTRAP has for McClellan GHFS were busy. McClellan advises the number they should be using is DSN 839-####. (TT)

11245.5 Male and female oprs (U.S. accents) 1935 USB w/apparent posn reports. Too weak to make out id's. 1.5 khz offset from 11244, so may be U.S. mil comms, & maybe not. (JH)

11246 AIRCRAFT ### (missed the numerics)1955 USB clg MACDILL, then any station for a radio check. These calls pop up every now and then - old MACDILL GCCS freq. Unid station 1527 USB clg "Any station, any station." Nothing heard and gone. (JH)

11253 MVU: RAF W.Drayton VOLMET,G 1322 USB EE m WX. (RK)

11460 PACOM 01 2122 USB & MacDill getting ready for PACOM 01's 2230 UTC flight. The way this net has been operating is a little strange. It's like a cross between a MYSTIC STAR ch. & a regular GHFS type ch. PACOM 01 was heard on 11175 USB about an hour ago working Macdill. They then switched between 15016, 9016, 13242, & now 11460 USB over this time period. PACOM 01 adv they had a 2130 UTC departure time, but now it has been knocked back to 2230 UTC. They are currently sitting at Andrews AFB and will be enrt to N. Island NAS when they depart. They have a DV-2 onboard. (BWS)

11494 NIGHTWATCH 01 1636 USB wkg NEONLAMP. At 1901, NAMESAKE w/26-character EAM. NAMESAKE has a very noisy background; no simulcast freqs found. Traffic acknowledged by NW 01; NEONLAMP had NAMESAKE repeat the string. At 1930, NAMESAKE exited the net. At 1938, NEONLAMP w/26-character EAM broadcast. At 2117, NEONLAMP still active w/NW 01. NW 01 1524 USB wkg DIFFICULT, who adv that REAFFIRM was no longer in the net. (JH)

12781.5 9MB: Penang Naval, Malaysia 1200 CW marker "9MB 13/16/19" (MM broadcast). (JD2)

12808.5 VTG7: Bombay Naval, India 1155 CW marker "VTG 4/5/6/7" (BN broadcast). (JD2)

12839.9 VTP7: Vishakhapatnam Naval, India 0930 CW plain-lang EE wx forecast. (JD2)
13011 AQP6: Karachi Naval, Pakistan 1430 CW marker "AQP 2/4/5/6" (PN broadcast). (JD2)
13200 NERTS 1600 USB wkg Croughton c/s spelled, trigraph tfc (BH) THULE 1915 USB w/pp for REACH 5077 to RAYMOND 17. (MF2)
13201 REACH 01 2038 USB wkg unid GHFS w/pp Dover AFB discussing protocol for Croatian Ambassador on board, arrangements for taxi to reviewing stand upon arrival, etc. Appears related to return of bodies from recent crash. Mentioned loitering out of site until landing at specified time for landing, I guess to wait for VIP's to arrive.
13204 Andrews 2106 USB w/pp for SAM 203 to UNID DSN# (pp concerned status of liaison w/Mexican embassy, also inquired about amount of news coverage there trip was getting). Andrews 2116 USB w/pp for SAM 203 to DSN#202-514-2101. Ascension 1929 USB w/pp for PAT 108 to DSN# 858-5058 Andrews CP. Ascension 1935 USB w/pp for SAM 203 to Andrews VIP switching to F616 9320 (MF2)
13206 HUDSON-6070255 0255 USB wkg RAAF Townsville, to RAAF Amberley HS-748 32 Sqd. (SB)
13211 NIGHTWATCH 01 1843 USB wkg BACKPACK. DEERSIGN 2042 USAB clg NW 01; & wkg NW 01 at 2047z. (JH)
13236 Cotam 1955: UTC? USB to Las Palmas, crew 10,1 pax,5.4 tons cargo (JP2)
13242 NIGHTWATCH 01: 2205 USB concluding app pp w/unid. (RB)
14441.5 NNN0CHS: USS Vincennes (CG-49) 2008 USB (MARS Sta) clg ASSMS w/beam heading of S., NNN0MCL, USMC Camp LeJeune answers, QSY 14818.5. NNN0MPN: USMC Camp Pendelton,Ca 2011 USB wkg unid MARS station for rdo ck. NNN0CBB: Unid 2051 USB last known as USCG Auxiliary station, this was a ship, clg ASSMS w/beam heading S/SE for routine pp tfc, unid station answers, both QSY 14477. NNN0CUV: USS Compte de Grasse 2332 USB (DD-974) clg ASSMS, NNN0ADV answers, QSY 14477 for pp tfc. (RB)
14587 Cotam 1041: 1245 USB 16N-13East, to Bangui and N'Djamena,A-310 (JP2)
15016 Elmendorf 1962 USB wkg 1879 req Fairchild AFB wx 2200z Elmendorf metro pirep KR135 WOODY79. Reach 50252 2043 USB clg McClellan pp to Elmendorf block time 23:50 C141. Andrews 2052 USB clg Reach 70043. Snoop 51 2055 USB pp to Raymond 21? pax & parking. Gasser 91 2056 USB clg McClellan for radio ck. Reach 8J8 2108 USB pp Ascension will call Charleston when closer in. Elmendorf 2110 USB clg Sierra 56, moved to 11175. (EG) Unid 2323 USB clg MacDill, SKYKING DNA msg. Unid 2331 USB clg Albrook weak but readable. DOG 03 2334 USB clg MacDill, DOG was Loud & Clear. (probably DAWG 09, Georgia ANG C-130, 165th AS at Savannah Nat'l AP, Ga -LOGS) YOKOTA 0035 USB clg AIRVAC 10784 x3, nothing heard/out. HAWK 84 0052 USB wkg Andrews relay re: 6 release (?) of weapons. (GG) ZERO XRAY ECHO 2026 USB (female opr) w/30-character XXF6EQ... EAM (new static series, or at least unheard until today). Co-channel is MIKE SIX KILO (female opr) with a 3B... EAM. No // freq found, but did not check most of the old HICOM freqs. Both back up at 2043z w/these same EAMs - repeats. ROOMRENT 2157 USB wkg ALBROOK w/pp to VQ4 OPCON, asking VQ4 OPCON to have BOOMTOWN meet him on freq designator CHARLIE CHARLIE. MIKE SIX KILO 2238 USB (female opr) w/'repeat' eams that are also heard on the NIGHTWATCH nets & from GIFTSHOP. ZERO XRAY ECHO (now a male voice) w/3 'repeat' EAMs co-channel with M6K (they always transmit at the same time); each EAM followed by either "more information follows" or "more information", & he closed this xmsn with "0XE signing off." DELTA FOUR INDIA 0232 USB (female opr) w/'repeat' EAMs as heard earlier in the evening; w/unid station (did not hear a call, but it would be another trigraph), male opr, co-channel w/EAM strings as well. During one of D4I's strings she went from very strong to unheard. All the trigraph oprs on 15016 used the distinctive 'government' alphanumeric pronunciations for the characters in the string. Activity seemed to become much less(to nil) shortly after this hour. (JH) Herky 649: 1115 USB From GMMX to GMBG (support flight for shuttle mission ?) Reach 4H3: 1810 USB to Brasilia (JP2) Albrook 2004 USB w/pp for SHARK 86 to Howard meteo. Albrook 2015 USB w/pp for SHARK 21to Lobo & Howard meteo (MF2)
15044 EVOLUTION 2142 USB (USN trained) clg & wkg NIGHTWATCH 01 on self-id'd

P383; discussed & worked CHOPHOUSE (sounds like), w/neither NW01 or CHOPHOUSE heard here. At 2150, EVOLUTION wkg CHOPHOUSE, adv that he will be on the deck shortly. (JH)
16922 VTH: Bombay, India 1040 RTTY 50b/850 test tape w/VTH 5/7/9 RBSL BNR RY's & SG's. (JD2)
16950 9MB: Penang, Malaysia 1730 CW marker "9MB 13/16/19" (MM broadcast). (JD2)
16938 VTG8: Bombay, India 1030 CW marker "VTG 4/5/6/7" (BN broadcast) this freq liable to be +/- by about 0.2Khz. (JD2)
18018 RAF CYPRUS 0815 USB w/local airfield condx (JB)

=ALL OTHER SSB/AM/CW/& MISCELLANEOUS MYSTERIOUS STATIONS=
216 CLB: Wilmington NC (LB)
226 IW: UNID (LB)
268 RT: UNID (LB)
275 SAL: Amilcar Cabral Intnl., Cape Verde (PvdE)
280 HWE: UNID (LB)
290 VI: Cabo Villano Lt, Spain (PvdE)
292 NA: Punta Lantailla Lt, Canary Isl. (PvdE)
297 KC: Nouakchott, Mauritania (PvdE)
301.5 CMP: Campagno ITALY (LB)
302.1 CPJ(?): UNID long dash at end (LB)
310 LZ: Lanzarote (Arrecife), Canary Isl. (PvdE)
317 TES: Reina Sofia/Tenerife Sur, Canary Isl. (PvdE)
323 SMA: Santa Maria (USAF), Azores (PvdE)
332 YFM: La Grande QUE long dash at end (LB)
338 TDF: Tindouf, Algeria (PvdE)
340 ADR: Adrar/Touat, Algeria (PvdE)
350 PM: Las Palmas de Gran Canaria (Gando AB), Canary Isl. (PvdE)
360 ASN: Ascension Aux. Air Field (Wideawake) (USAF), Ascension Isl. (PvdE)
365 VR: UNID, prob. Canary, strongest station of all (PvdE)
365.6 YMW: Maniwaki, QUE (LB)
371 MGL: Sao Miguel (Ponta Delgada), Azores (PvdE)
373 JF: JFK Airport, NY (LB)
376 HR: Hierro, Canary Isl. (PvdE)
380 FIL: Horta/Faial, Azores (PvdE)
383 UR: Covington KY (LB)
389 BV: La Palma (Mazo), Canary Isl. (PvdE)
391 DDP: San Juan PR (LB)
391 ML: Charlevoix QUE long dash at end (LB)
397 FV: Fuerteventura, Puerto del Rosario, Canary Isl. (PvdE)
404 CP: (LB)
406 FR: (LB)
407 H: Montreal QUE (LB)
410 TX: Tenerife (Los Rodeos), Canary Isl. (PvdE)
414 BC: Quebec CAN long dash at end (LB)
414 OGY: New York City "BRIDGE" (LB)
516 YWA: Palawawa ONT " (LB)
3261 Glenorchy Base, South Island Mountain Radio Service 0730 USB wkg ZKIB14 ZKIB72 ZKIB78 ZKIB79 ZKIB86 ZKIB101. ZKFK New Zealand - South Island Mountain Radio Service 0800 USB wkg portable/mobile field stations. (AB3)
3345 ZKVY Base, North Island Mountain Radio Service 0740 USB wkg ZKVY11 ZKVY19. (AB3)
3348 Unid NZ Rural Comms (AB3)
3640 CIO2: MOSSAD,ISR 1846 USB EE f "C-I-O-2". (RK)
3822 Unid 1900 CW "PVIN PVIN PVIN DE FLVD FLVD ZHM ZVZ ZSG ZAC ZDL ZFV QYT1 AR", strong signal over here, possibly in Russia. (CK)
3860.5 WA3NAN: Goddard Amateur Radio, Md, USA 0813 LSB w/ rebroadcast of audio for launch of Space Shuttle Atlantis on mission STS-76, w/liftoff. (RB)
4347.2 Unid: 0215 CW (RT2)
5089.5 GS-X net unid 1500/1700 USB stations were GS-1, GS-2, GS-3, GS-4, GS-5, & another which sounded like an a/c. Sometimes they would casually ID themselves as "Ground Station #" The comms centered around testing a HF data; voice system. I heard references to KY-100, & ALE. From the comms, they were using some sort of HF SELCALL

systems much like Customs, but the data bursts were different. Once they went to "scan" 5089.5 would light up with various data exchanges between the units. At the same time, I also heard the same data bursts on 6730, 8967, & 11225. GS-1 seemed to be "coaching" the others on how to work their comm units. (CG)
5211 KGE22: FBI, Quanitco, Va 1801 USB wkg WGY912, FEMA Special Facility, w/check-in during SHARES exercise. Arrow 34: CAP Nat'l Capitol Wing 1810 USB wkg WGY912, w/check-in during SHARES exercise. (RB)
5270 Unid French Net (Possibly New Caledonia) USB (AB3)
5383 ZKCT Wellington NZ 0800 USB Civil Defence Central Region HQ wkg outstations (Channel Foxtrot - Central area working frq) (AB3)
5386 ZKHQ Wellington NZ 0800 USB National Civil Defence HQ wkg ZKNT ZKCT (Channel Alpha - national calling frq) (AB3)
5389 ZKNT Auckland NZ 0800 USB Northern Region Civil Defence HQ wkg outstations NT22/NT32/NT33/NT37/NT41/NT52/NT54 (channel November - Northern region working channel) (AB3)
5400 Fiji 0755 USB Inter-island net in Fijian Lang. (AB3) Unid: PNG station 0810 USB mentioned Lae in Pidgin (AW)
5425 Presumed Cook Island phone net 0920 USB lots of pp (AW)
5430 Goroka PNG 0923 USB Phone net in Pidgin (AW)
5448 Unid 0415 USB some type of time signal station???, although beeps were actually slightly faster than one second apart. Sounded more like the beeping a truck makes when it's backing up (TB)
5470 Unid NZ 0745 USB - Rural comms - farmer chat. (AB3)
5780 5ECY: 1950 CW Calls to "NEW8". Also to "KQGL" "rpt k" "qsv k" "qsa2" "qtc". Tfc but qrm. (DW)
5795 Unid PTP net (probably Papua New Guinea) 0820 USB US accents sounds like missionary network. (AB3)
5838 Unid: PHL 1015 USB presumed Manila w/long list of orders. (AW)
5841 53A: DEA Ops 0227 USB clg PANTHER (DEA HQ, Bahamas) on Bravo channel. Extreme noise on this freq. (DF)
5909 BMB: METEO Taipei,TWN 1228 CW VVV CQ DE BMB FREQ 3641/5909/8117/13560 KHZ. (RK)
6606 Unid: 0950 USB w/Two stn in Asian lang, pp Not CC or JJ (AW)
6790 Numbers station 0230 USB repeating "268" until 0234, then went to 5 #'s groups, which are repeated twice. (BWS)
6975 Unid 2145 USB two women w/discussion in French (TB)
6984 SNN299: MFA Warszawa,POL 1117 CW short VVV DE SNN299 SNN299 GA tape. (RK)
7000 Unid: 0925 USB Fiji or PNG. pp (AW)
7005 Unid: in PHL 1035 USB Bulacan or Manila, pp (AW)
7865 SPS Warsaw Radio? 2248 USB presumed them w/talk in Polish (TB)
7871.2 LN2A: HF Beacon Sveio, Norway 1717 CW "LN2A" marker plus mixed FSK signals (MC)
8066 Unid: 0750 USB Japanese stns w/pp. (AW)
8175 Numbers station 0130 USB repeating "268" in EE. (BWS)
8295 Unid: 2058 USB busy tfc, also on 8294 USB. Not Spanish...much activity (MS)
8882.2 Unid: 1725 CW slow hand morse, mix of figs/letters. (DW) (also a unid in WUN 5/95, 7/95 -LOGS)
9070 CIA numbers station 0730 USB till 0745 (ANEE)
9263 Numbers station 2238 USB lady w/British accent w/5FG's//11545.0 (TB) (probably Lincolnshire Poacher -LOGS)
9320 OLX: MOI Prague, Czh 0331 USB YL in Czech w/5LG's. (RB)
9331 UNID: 1211 CW 5LG's, no id off w/sk +++ at 1216. (EW)
10245 BND numbers station 0830 LSB female voice. (ANEE)
10452 Unid Numbers Station 1023 USB w/5lgs. (EW) (interesting, former SAC frequency, probably now used by U.S. STRATCOM...notan EAM? -LOGS)
10594.6 MFA PYONGYANG ? 0723 CW Hand morse (International of NK?). Language not recognized. Keying about 27wpm. (DW)
11470 Unid: 1210 USB Numbers Stations 3/2 letter grps (EW) (poss CIA -LOGS)
11545 MI6 numbers station 1630 USB til 1645 (ANEE) Numbers station 2238 USB lady w/British accent giving 5-number groups //9263.0 (TB)
11689 Unid: 2135 CW (RT2)
12097.7 Unid: 2150 CW (RT2)
12097.9 Unid: 2205 CW (RT2)
12120.5 Unid: 2155 CW 'E' Marker (RT2)
12804.5 Unid: 2230 CW 'E' Marker (RT2)

12804.5 Unid: 2250 CW (RT2)
14441 CLP1: MFA Habana,CUB 1401 CW clg CLP55. (RK)
14443 Numbers Sta: (unid) 0735 USB YL/EE in 3FG's. (RB)
14686 FLINT 462 2008 USB clg 463 for a ATLAS check (MF2)
15682 MI6 numbers station 1130 USB (ANEE)
15980 Mossad numbers station 1130 AM missed ident, new freq (ANEE)
17410 Unid: 1430 USB Israeli Mossad Station w/18-group message to EZI til 1445 (ANEE)

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(RB) Rick "RD" Baker, Austintown, Ohio, USA: IC R-71A/IC R-72, M-1000
(RC) Roger Caird, Dublin, Ireland: AOR AR3030/AR3000/HOKA Code 3/PC-HF Fax
(RD3) Rob Davies, Northwich, Cheshire, UK: NRD535
(RJL) Bob Lewallyn, The Woodlands, Tx, USA (was BL)
(RK) Ralf D. Kloth, Germany
(RT2) Robert Thompson, Kilgore, Tx, USA: R390A/FRG100/R-8/NRD535D/M900/M6000
(SB) Steve Bottom, Cairns, Australia: FRG7700

(SM) Stuart McMurtrie, Surrey, UK: Racal 1772
(SS) Stan Scalsky, Leonardtown, Md, USA: IC-R71A, M7000, Code 3
(TB) Tim Braun, Haymarket, Va, USA: FRG-100
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(TR) Tom Roach, San Jose, Ca, USA: Watkins-Johnson HF-1000, NRD525
(TT) Tim Tyler, Ypsilanti, Mi, USA: R5000, Sony SW55, TS50, AR8000, MVT7100
(TV) Ted Viens
(WS) Walter Salmaniw
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ Vol. 2, No.5 May, 1996 ////

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Edited by Richard Baker
WUN Electronic Edition Editor
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If you have problems in this, or need further information contact Rick Baker at: utelistener@msn.com or ae411@yfn.ysu.edu

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN Publishing, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

If you are reading this newsletter from another source, such as a BBS, please let us know!

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From your Electronic Editor:

WUN-v02

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

* Don't blame your paperboy, this edition is late due to a lot of factors beyond our control.

WHAT'S INSIDE:

o Membership News by Mike Wolfson
o International Civil Aero by Tony Orr & Peter Ivakitsch
o Ask WUN! by Colin Goodall
o Digital Review by Ary Boender
o The WUN Military Column by Jim Pogue
o New Products, Books, News and Reviews by R.D. Baker
o Nautical News by Jim Pogue
o The QSL Report by Martin Barry
o Utility Round-up by Ary Boender
o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

Welcome to the WUN Membership News for May. I hope that listening conditions are improving for all of you and that you have lots of logs to show for your efforts.

The club continues to show healthy levels of growth. The main WUN list had 624 members at the beginning of the month. This is an increase from about 600 at the beginning of April. WUNNEWS had a total of 196 members, while WUN-DIGEST had 65 signed up. There are 34 getting the paper edition. Rick Baker did a survey of the BBS (non-e-mail/non-direct subscribing) sites and that number is now up to 135 members. This brings the total membership to 1,054!

By the way, our members are from 28 countries in May with Singapore and Austria being represented for the first time. Welcome one and all and its great to have you participating in the only WORLDWIDE utility listening club. With the addition of these two countries we have members from 35 different countries.

One of the trends I'm seeing in our membership statistics is that the membership is becoming more geographically distributed. A large percentage of our members have U.S. addresses. However, an increasing number of people are subscribing from other countries. This is good because of the different monitoring possibilities these members will be able to report and the different news items of interest to the group that people will be able to bring the attention of the membership.

As usual, I'm making a pitch for information for the club's database. If you're interested in participating please read on. The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested.

Here is the survey:
E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

That about covers things for May. Have a good month and good luck with your listening. Mike

==========

INTERNATIONAL CIVIL AERO

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Welcome back to another edition of INTERNATIONAL CIVIL AERO brought to you by WUN's exclusive network of wacky WUNners...I can hear the groans already. Well this month we'll dive straight into Vic's SELCAL CORNER, and that will remain the title from now on! :-) AIRLINE NEWS will follow that, and we've got a lot to catch up on as many airlines have added seasonal service for the Summer. Thanks to our contributors this month David Wells and Markus Buttinger and to Apollo C. Vermouth for the corrections.

==========

****SELCAL CORNER****by Vic Gubbins

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As you can see below, we have a HUGE list of new and changed selcals for you this month although sadly, they have all been poached from another magazine due to the fact that only two people contributed anything this month. If I do not receive more news from WUN members for the next issue I shall not be writing it any more. For your information though, credits for all these codes go to a great UK radio magazine called The Monitor which was sent to me recently via one of it's contributors. The magazine covers all types of overflights for the UK as well as world civil and military HF traffic and makes very interesting reading as it also contains topical aeradio news and selcals. Sadly, due to it's UK concentration, it is not available outside of Britain although if you live there and are interested in the mag, full details can be obtained from 9 Gleadsmoss Close, Oakwood, Derby, England DE21 2BP. As for the rest of us non-UK selcal collectors, we'll have to stick to WUN so send those codes in to me please via Tony's e-mail address at the top of Civil Aero.

5B-DAS	CYP	A310	HQ-LS
5N-TNO	XXX	B707	DE-AB
9M-MAS	WOA	DC10	EG-AD
AP-BEY	PIA	A300	GL-EK
C-FTDU	SSV	A320	HJ-MQ
C-GCIO	CLI	A310	GS-JQ
C-GMPG	CWW	A320	KS-ER
C-GVXD	CMM	A320	LS-GK
D-ADBC	BAG	B737	LQ-KS
D4-CBG	TCV	B757	MQ-ER
EC-154	IBE	A340	DJ-RS
EC-276	AEA	B767	JR-AG
EC-BQV	IBE	DC9	KM-EH
EC-FYF	AEA	B737	FS-BP
EC-GAZ	AEA	B737	LS-DF
EI-BXK	EIN	B737	BD-HR
EI-TLE	TLA	A320	GJ-AC
EI-TLI	TLA	A320	JQ-CR
EI-TLJ	TLA	A320	GH-LM
F-GFKQ	AFR	A320	EH-GM
F-GKXA	AFR	A320	BM-LR
F-GPVB	LIB	DC10	AL-HJ
F-GRSC	SEU	B737	MS-AJ
F-GTOD	CRL	B747	GM-DJ
F-ODSX	AMY	A310	HK-GR
F-OHLI	MEA	A310	CL-FJ
G-CIVI	BAW	B747	BG-MS
G-GOKT	CKT	DC10	JM-EL
G-OALA	ALT	A320	JR-DQ
G-OITL	AZA	B767	LR-JS
G-UKLJ	ULE	A320	HL-MP
HB-IIF	TSW	B737	LR-FM
N104CK	CKS	L101	DF-LM
N229NW	NWA	DC10	DK-BG
N247JM	AJM	A300	DH-CF
N277WA	WOA	MD11	JM-FL
N278WA	WOA	MD11	JM-GH

N306GB	APW	L101	KR-HP
N415FE	FDX	A310	JS-PR
N423FE	FDX	A310	JS-QR
N447FE	FDX	A310	DF-EH
N507DC	TCN	DC8	JK-DE
N516MC	GTI	B747	CK-GL
N533MD	KJC	DC10	FM-CH
N602GC	SCX	DC10	EM-BL
N613FE	FDX	MD11	KM-AR
N6161C	CKS	DC8	JK-PQ
N619FF	TOW	B747	CM-GK
N625BL	CKS	B747	AD-EG
N640FE	GTI	B747	EK-JL
N665FE	FDX	A300	FG-MS
N747MC	GTI	B747	FG-CJ
N808MC	GTI	B747	FJ-BG
N812DE	DAL	MD11	DH-CE
N832LA	LBH	DC10	FJ-DG
N833LA	LBH	DC10	FL-CJ
N839AD	AJM	A310	KS-DH
N881RA	ROA	MD80	AQ-MS
N882RA	ROA	MD80	BQ-RS
OD-AHF	MEA	B707	BG-FL
PH-BZE	KLM	B767	ER-LM
PP-AJM	ACU	DC10	CD-BH
PT-TAI	TBA	B767	JK-CS
SE-DPP	OOE	L1011	BJ-AC
SX-BEK	OAL	A300	CL-BM
SX-BKA	OAL	B737	BL-EJ
TC-AFA	PGT	B737	BP-ER
TC-AFM	PGT	B737	HQ-KM
TC-JDD	THY	A310	AP-CS
TC-JDM	THY	A340	ER-CH
TF-ABK	BCY	B737	CF-HP
TF-FIK	ICE	B757	KQ-FG
TU-TAH	RKA	A300	HS-DF
VH-BZF	AAA	B763	LS-JR
VH-EBQ	QFA	B747	DK-FM
VH-RMM	AAA	B762	LS-CJ
VT-EDS	XXX	B737	BL-AM
XA-SWO	TEJ	B737	BD-FP

David Wells in the UK also contributed information regarding Excalibur's new DC10-30 G-GOKT this month. David also comes through with the following: Excalibur is now leasing DC10-30 V2-LEH selcal FK-BL from Skyjet Antigua until further notice. A big tip of the ICA cap to you, David!!!

Many thanks to Steve Bottom for providing us the new Ansett selcals! Quite a good selection isn't it? Come on WUNners - now it's our turn!
73, Vic

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Editors note-I am hoping that next month we will have some of our regular selcal contributors back in action, and let's all show Vic how much selcal info we can come up with for next month!
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AIRLINE NEWS
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BRITISH AIRWAYS will begin daily service from London (Gatwick) to Phoenix and San Diego effective 1 July. BA277 LGW-PHX dep 1200 and arr 1435 and BA276 dep PHX 2130 arriving LGW 1550+1 using DC10-30 equipment. By the 20th of May, JAT should have begun scheduled service to the United States as noted previously in this column. LTU has begun seasonal scheduled service between Dusseldorf and New York (JFK). LT1551 departs JFK 1630 arriving DUS 0605 on Fridays, LT1550 departs DUS 0905 arriving JFK 1115 also on Fridays utilizing MD11s. To SFO LTU operates LT1528 DUS-SFO dep 1145 arr 1410 and LT1529 SFO-DUS dep 1630 and arriving DUS 1155+1 on Wednesdays also with

MD11's. AMERICAN TRANS AIR has also begun scheduled service for the Summer to Belfast and Shannon with the following schedules:
JFK-BFS TZ204 dep 2230 arr 1000+1 Saturdays
BFS-JFK TZ205 dep 1130 arr 1335 Sundays
JFK-SNN TZ242 dep 2115 arr 0830+1 Sundays
SNN-JFK TZ243 dep 0945 arr 1150 Mondays

AUSTRIAN AIRLINES has added a second flight from Vienna to JFK on Mondays, Thursdays, and Saturdays: OS503 VIE-JFK dep 1715 arr 2050 and OS504 JFK-VIE dep 2215 arr 1250+1 using A310's on the route. AIR MAURITIUS has been using L1011-500 V2-LEO leased from CARIBJET on a few of its flights: MK744 MRU-BOM/MK745 BOM-MRU/MK746 MRU-SIN/MK747 SIN-MRU/MK750 MRU-BOM/MK751 BOM MRU.

AIR JAMAICA has indeed commenced it's Transatlantic service from Montego Bay to London-Heathrow as noted in last month's column. This was verified via ACARS loggings here in Reston the past two weeks...An interesting development on the island of Cape Verde: TACV-CABO VERDE AIRLINES has acquired a 757 for use on services to Europe and Boston, expect schedules to appear next month. ICAO Code is TCV. Listen up for CATHAY PACIFIC's new 777's to appear on routes from Hong Kong to Taipei, Tokyo, Bangkok, Bahrain, and Dubai effective this month. VIRGIN ATLANTIC began nonstop Manchester-Orlando A340 service on 17 May with new A340 G-VSUN. Flight numbers are VS075 MAN-MCO and VS076 MCO-MAN and operate except Tuesdays.

VIRGIN also begins daily London (Heathrow)-Washington (Dulles) A340 service effective 26 June.
VS021 LHR-IAD departs the 'Row 1130 arriving IAD 1500 and VS022 IAD-LHR departs 1825 arriving 0645+1.

UNITED adds a THIRD seasonal round-trip from iAD to LHR effective 6 June. UA924 departs IAD 1830 arriving LHR 0650+1, and the return UA925 effective 7 June departs LHR 1135 arriving IAD 1455 with 767's listed as the aircraft type. UA918/919 and UA920/921 both become 777 service effective 7 June.
UNITED also begins Chicago-Dusseldorf service effective 6 June. UA952 dep ORD 1700 arr DUS 0840+1, and the return UA953 dep DUS 1120 arriving ORD 1335 with daily 767-300s. The 747-400 appears for the first time on UNITED's scheduled Transatlantic service with UA940 ORD-FRA and UA941 FRA-ORD switching over. Second daily flights have been added between SFO and LHR, the flight numbers are UA954 SFO-LHR and UA955 LHR-SFO. AIR FRANCE will add a second seasonal flight from Washington (Dulles) to Paris (CDG) effective 14 June. AF025 departs IAD 1600 arriving CDG 0525+1 and AF026 departs CDG 1100 arr IAD 1320 using 747's and operating only on Fridays, Saturdays, and Sundays. Effective 15 June AIR LIBERTE begins nonstop Bordeaux-JFK service with the following sked: VD1975 deaprts JFK at 1645 on Saturdays and at 1615 on Mondays and Wednesdays, and the return from BOD VD1974 departs Merignac Airport at 1130 on Mondays and Wednesdays and at 1230 on Saturdays. EL AL ISRAEL begins weekly ORD-TLV nonstops with 747-400's effective 24 June. LY110 departs ORD 1300 on Mondays arriving TLV 0820+1 and LY105 operates TLV-ORD dep TLV 0030 arriving ORD 0510 Fridays. Effective 6 June CONTINENTAL's daily EWR-MAN flights switch to the following flight numbers: EWR-MAN is now CO20, MAN-EWR is now CO21. AER LINGUS has started new Dublin-Chicago (O'Hare) service. EI125 dep DUB 1430 arr ORD 1650 on Wednesdays Fridays and Sundays. EI124 departs ORD at 1915 arr DUB 0845+1 using A330's.

LUFTHANSA has added nonstop Munich-San Francisco Service effective 3 June: LH459 dep SFO 1655 arr MUC 1310+1 and LH458 dep MUC 1130 arriving SFO 1440 with A340's on Mondays/Tuesdays/Thursdays/Saturdays. And finally, WORLD AIRWAYS fires up their seasonal sked with the following flights across the pond:

WO502	EWR-DUB	DC10	Thursdays
WO503	DUB-EWR	DC10	Fridays
WO504	EWR-BFS	DC10	Fridays
WO505	SNN-EWR	DC10	Saturdays (Eff. 8 June)
WO506	EWR-SNN	DC10	Saturdays (Eff. 8 June)
WO507	SNN-EWR	DC10	Sundays (Eff. 9 June)

WO508	EWR-BFS	DC10	Sundays (Eff. 9 June)
WO509	DUB-EWR	DC10	Mondays (Eff. 10 June)
WO1202	SEA-MUC	MD11	Wednesdays
WO1205	MUC-SEA	MD11	Fridays
WO1206	SEA-FRA	MD11	Fridays
WO1209	FRA-SEA	MD11	Sundays
WO1500	LAX-BFS	MD11	Fridays
WO1501	SNN-LAX	MD11	Mondays
WO1510	BOS-SNN	DC10	Sundays (Eff. 16 June)
WO1511	SNN-BOS	DC10	Mondays (Eff. 17 June)

==========

A couple of corrections to last month's feature on Greek Domestic HF Aero:
Add Aristotelis-Kastoria (LGKA)
Megas Aleksandros is Kavala (LGKV)
Dimokritos is Alexsandroupolis (LGAL

==========

And with that we close another edition of International Civil Aero. Please send you contributions to the addresses listed above, and please let's all give a round of applause to this month's contributors! From all of us to all of you, 73 and good DX!

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ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor

****

If you have a question or you can provide an answer then use this section. Let's hear from YOU.

****

Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.

****

1. FOLLOW UP TO PREVIOUS NEWSLETTERS

FROM: Mark Schoonover (schoonom@ccmail.sgo.sony.com)
Subject: Computer Noise

Colin:

I read the April "Ask WUN" column and I had similar computer noise after an upgrade. It was related to my monitor and the resolution I was running it at. The system was unusable with 80x40 DOS character based programs, but when I switched to Windows NT and the resolution was at 640x480, still tons of hash, but when I changed to 800x600, it was better, and then to 1024x768 it was almost gone.

I have an indoor dipole with a feed point about 20' from the PC and by installing a balun, the noise is completely gone. I live in a second floor apartment, so the only ground I have is through the ground lug on the 120 AC line.

Mark

Thanks Mark for your help. Can you try this Barry?

.....

From: dwgenti@globalnet.co.uk (David W. Gentile)
Subject: John of London and UNID stations

Colin,

Unfortunately I do not know anything about this user, but can you please pass on my congratulations to John of London concerning his question? I just happened to be reading it in the April newsletter just five minutes prior to this guys daily testing, It was really interesting stuff he passed.

John- OUTSTANDING CATCH!! Dave.

.....

2. HELP WANTED

****

FROM: Jacques Pagnoux <pagn1096@eurobretagne.fr>

Hello everyone!
I have a request especially for US and British WUNers: is there any such group/newsgroup which could be compared to WUN but who specialize in VHF/UHF ? I would also like to read/send/share loggings in those frequencies. Any answer, to my personal e-mail address please. Thanks! Jacques. West of France.

OK folks what have we got? There used to be Black Cat in the UK but they died earlier this year I think. Anyone got any info?
.....

FROM: Joe Polchlopek <joe@netcom.duke.edu>
Subject: RTTY software for PC?

Hi Colin,
I just subscribed to WUN and have a question I didn't see addressed in the included FAQ. I hope you can help me get started. I recently dug out my venerable old Sony ICF-6800A receiver and was happy to find it still works perfectly after about 5 years in storage. I am interested in using my IBM-compatible computer (486DX2-66, Win95) to demodulate Morse code and RTTY. I did this many years ago using a VIC-20 and an add-on card called an AIR-1 (I think). I'm anxious to re-learn this interesting use of radios and computers and hope I will be able to do it using my present equipment. I realize I may have to add some hardware between the radio and computer.

Thanks in advance for any information! --Joe

Well my favorite is HOKA Code3. What about all those shareware and freeware programs in use out there - help needed folks.
.....

Dear Sir:

I'm a Sciences student in Spain, my favorite hobbies are electronics, computers, and ham radio. A few days ago i read an article from your magazine which was very interesting, about a packet radio communication intercepted by you from a ship of the Navy (U.S. Naval Academy -ed).
Well, i'm new at this of packet radio, and i'd need some help for starting, i'm interested in receiving images from weather SAT's, but i need to know how to make the interface for my computer, and what programs i can use for do it, and how can i get them (and ftpsite in internet). I'm interested too in radio bbs, i know how to make a rudimentary modem, but i need the software for it.
My equipment is composed by a pentium pc compatible, with svga and sound blaster 32 PnP (can i use this sound card for packet radio?), a couple of CB transceivers of 5W, a sw receiver that covers 550kHz to 30MHz band, and another receiver of vhf (108 MHz to 160 MHz).
I need schematics about modems, names of comm's programs, and a place in the internet where i can get them. On the other hand, i'm designing a rf power final amp. for my CB transceivers, but i need the equations for the final net impedance adaptor, can you help me with that?
Thanks for all, Yours sincerely: Jesus Martinez
Hann or HannSolo at IRC
romani@lambda.upc.es
at internet e-mail

If you can help Jesus let us know!
.....

And with that it brings us to the end of another programme. A bit small the column this month, presumably all of you WUNNERS have no questions to ask....I don't think. Anyone got a problem that needs help, someone in the membership will know the answer. Or like Jacques letter above, do you want to contact other like minded people on a subject outside the WUN range? Try

this column - you never know you could just find out something of immense interest.

Till next time, Colin.

==========

DIGITAL REVIEW

[editor: Ary Boender (ary@bitbike.com) Fidonet 2:283/512.24]

This month you have a locum editor (Day Watson) allowing Ary to get some exams out of the way and take well-earned leave on completion. I trust I can keep up with the standard he has set.

Aero RTT circuits.

Looking back through the WUN newsletters from the start (Feb95) I see few references to aeronautical point-point circuits on HF. The following table is taken from my database and summarizes my loggings in the UK within the last two years. (For ITA2 in my database read RTTY or Baudot).

A number of the African circuits managed by ASECNA have moved from RTTY to a more reliable mode namely ARQ/342 (also ARQ-M2) with error correction. Where used it is in the two channel time diversity form. Channel A is the aero traffic circuit with circuit ID and numbered traffic whilst Channel B is a general met broadcast.

Note the two (standard) Pactor mode frequencies. These have been noted but reception has been extremely poor at my location. To date my only assessment is a guess at Nigeria, either internal or to neighboring country.

Finally note the CW circuit on 16246.5. This is used between Nairobi, Djibouti and Antanarivo.

Freq	Location	Mode	ICAO	C/s	Cct	To
3177.5	Calcutta	ITA2//50/N/500	VECC	AWC		
3250	Shannon	ITA2//50/R/850	EIAA	EIP		
3850	Addis Ababa	ITA2//50/R/400	HAAB	ETD3	VTA	HAAS or HAAZ?
3898	Brazzaville	ARQ/342//96/I/400//2ch	FCCC	TNL	FKA	Kinshasa?
4014.6	Antananarivo	ARQ/E3//96/E/400	FMMM	5ST	TPA	Plaisance
4023.6	Plaisance	ARQ/E3//48/I/850	FIMM	3BZ	PTA	Antananarivo
4487.5	Brazzaville	ARQ/342//96/I/400//2ch	FCCC	TNL	FOA	Bangui
4512.5	Addis Ababa	ITA2//50/N/320	HAAA	ETD3	VKA	Nairobi
5160	Niamey	ARQ/342//96/I/400//2ch	DRRR	5UA	NUA	Cotonou
5221.5	Cotonou	ARQ/342//96/I/400//2ch	DBBV	TYE	UNA	Niamey
5474	Santa Maria	ITA2//50/N/650	LPPO	CSY	MSA	Shannon
5813.5	Shannon	ITA2//50/R/850	EIAA	EIP	SMA	Santa Maria
5848	Abidjan	ITA2//50/N/400	DIII	TUH	RYs	
5932	Addis Ababa	ITA2//50/N/425	HAAA	ETD3	VHA	Djibouti
6882.5	Dhaka?	ITA2//50/N/850	VGFR	S2D		
6974.8	Dakar	ITA2//50/N/400	GOOO	6VU		
7423	Nairobi	ITA2//50/R/250	HKNA	5YD	KVA	Addis Ababa
7426.2	?nigerian?	Pactor				
7524	Conotou	ARQ/342//96/I/400//2ch	DBBV	TYE	UNA	Niamey
7596	Niamey	ARQ/342//96/I/400//2ch	DRRR	5UA	NUA	Conotou
7626	Bamako	ITA2//50/N/400	GABV	TZH	BUA	Conotou?
7700	Addis Ababa	ITA2//50/R/600	HAAA	ETD3		
7834.5	Antananarivo	ARQ/E3//48/E/250	FMMM	5ST	PTA	Plaisance
8123	Brazzaville	ARQ/342//96/E/400//2ch	FCCC	TNL	FLA	Libreville
8145	Shannon	ITA2//50/R/850	EIAA	EIP	SMA	Santa Maria
8165	Nairobi	ITA2//50/R/300	HKNA	5YD	KSA	Khartoum
9046.2	?nigerian?	Pactor				
9072.7	Bangui	ARQ/342//96/I/400//2ch	FEFF	TLO	OFA	Brazzaville
9136	Ndjamena	ARQ/E//48/E/170	FTTT	TTL	NBA	Bangui
9136	Douala	ARQ/E3//48/E/170	FKKK	TJK		
9154	Sal	ITA2//50/R/1260	GVSC	D4B	CMA?	Santa Maria?
9195	Antananarivo	ARQ/E3//48/E/400	FMMM	5ST	TPA	Plaisance
9196	Brazzaville	ARQ/342//96/I/400//2ch	FCCC	TNL		

9217.5	Ndjamena	ARQ/342//96/I/200//2ch	FTTT	TTL	LFA	Brazzaville
9287.1	Bangui	ARQ/E3//48/I/480	FEFF	TLO	BNA	Ndjamena
9462.5	Addis Ababa	ITA2//50/N/300	HAAA	ETD3	VTA	
9994	Santa Maria	ITA2//50/N/850	LPPO	CSY	MCA	Sal
11192	Santa Maria	ITA2//50/R/850	LPPO	CSY		
11494.5	Tripoli	ITA2//50/R/340	HLLT	5AF	ry's	
13366.5	Nairobi	ITA2//50/R/170	HKNA	5YD	KVA	Addis Ababa
13372.5	Nairobi	ITA2//50/R/250	HKNA	5YD		
14497.5	Santa Maria	ITA2//50/R/600	LPPO	CSY	MCA	Sal
14989	Brazzaville	ARQ/342//96/I/400//2ch	FCCC	TNL	FLA	Ndjamena
16246.5	Antananarivo	CW	FMMM	5ST		
18173.5	Khartoum	ITA2//50/N/400	HSSS	STK		
18388.6	Tripoli	ITA2//50/N/400	HLLL	5AF		

If you have any additions to this list logged within the last 1 to 2 years please post them to the list.

Diplo Corner.
Keeping the flow of diplo notes going this month we look at Australia, Nigeria, and Belgium.

AUSTRALIA/MFA Canberra (thanks to Andrew Brill in NZ for input).

Transmission modes used:
Sitor/A 100bd
Twinplex 100bd 255/85/85/255 F7b-1

Logged frequencies: 14854.7 14856
Reported frequencies:14806.7 18556 19414.5

Notes on operation:
Ministry of Foreign Affairs Canberra copied intermittently by AB (NZ) on 14856 in the Australian afternoon (around 0100-0300z) with traffic in both Sitor A and Twinplex to Pacific Island nations. Sitor/A has been copied in plaintext but Twinplex is invariably encrypted.

AB (Feb96) notes 14854.7 - Daily for the last 3 days Twinplex idling on this freq from 0200-0400Z. No traffic noted during this time. ISS station very weak and barely discernable. IRS reasonable strength. Sure this is Canberra with somewhere in the Pacific Islands.

Dictionary:
Austrade Embassy

Sample message formats:

Example #1 - Sample by AB 4/Aug/93

emdw604
rru nurudvxx (normally double spaced)
chchdvxx unc
o.ap16270 1345 4.8.93 unc
to.
pp canberra/
rp.
rr honiara/ honolulu/ nauru/
rr noumea/ nuku'alofa/ pohnpei/
rr port moresby/ suva/ tarawa/
rr vila/ wellington/

fm. apia/ fa ref o.ap16253/man
u n c l a s s i f i e d
aid: taro leaf blight outbreak in western samoa
to file 92/1461 from file 607/8

a meeting on the afternoon of august 4th was attended by representatives of western samoan government, fao, spc, aidab farming systems project, commercial agricultural development project(usa)

and ireta(usp) to hear developments in the outbreak of taro leaf
blight caused by the fungus phytophora.

qta qta @@@ ypr qta qta 604
nnnn

NIGERIA/ MFA/MEA Lagos

Transmission modes used:
FEC/A 96bd E 720hz

Logged frequencies: 19357
Reported frequencies: 19643.5 19645.5 19988.5 21408.2 23355 24060

Notes on operation:
Language: English
Off-line encryption (5 ltr groups).
Two stations alternate on same frequency.
Routing occasionally as MFA for KNS ie MFA Lagos for Embassy Kinshasa
"External TAC Abuja" also observed.

Dictionary:

External	Address for MFA Lagos (occ External Abuja)
Foreign	Signature of MFA Lagos
BGY	Lagos
KNS	Kinshasa
MEA	Ministry of External Affairs (alternate to MFA?)
MFA	Ministry of Foreign Affairs
ndc	Nigerian Diplomatic Code?
Nigerian	Nigerian Embassy
NUK	Nigerian UK (London Embassy)

Sample message formats:

Example #1 - Basic message structure

Nigerian Kinshasa (Originator Nigerian Embassy Kinshasa)
12/2/93 (1350 hrs) (date time)
Immediate Nigerian UK London (Priority - Addressee Nigerian Emb Loc)
UNND x ("UNND" ? and "x" in lieu of STOP)
t e x t
Nigerian Kinshasa (Originator signature).

Example #2 - Message from Kinshasa

immediate external abuja (Addressed MFA Abuja)

tel: no: 48 (Telegram nr)
==========
for gg's office from claude-wilcox
rpt to: prcd
we are being inundated by enquiries and comments from both
press and individuals on the political happenings at home xx in
most instances we appear inadequately informed on latest
happenings stop we therefore wish to request that developments
on the political situation at home are despatched to us on a
regular basis as they happen so that we can be fully abreast
with government's positions and decisions on the problem stop
the press comma the diplomatic commuity and private individuals
here show a lot of interest and concern on the current
happenings in nigeria stop

nigerian kinshasa (Nigerian Ambassador)
27/07/93 : 1230 hrs

Example #3 - Press summary header

```
  bgy for all missions                (from MFA Lagos)

  for duty officers x
    prestel for ur cfmation please x

 to all missions
 =============
 prestel p/lo 163
 ================
 press summary -21/7/93
 =======================
 receiving a delegation of igbo traditional rulers yesterday, pj
 president babangida told them that the corporate existence of
 nigeria as one entity was not negotiable and ruled out the
 escalation of the political crisis, reports the daily times x
 nigeria as one entity was not negotiable and ruled out the
 escalation of the political crisis, reports the daily times x
       <snip> <snip>
 the observer quotes a washington-based population reference
 bureau as publishing in its 1993 data sheet that nigeria has
 a population of 95.064 million people , ranking as tenth most
 populous country in the world x
 the daily champion informs that oil price has crashed to fifteen
 point nine eight us dollars a barrel against our 199 3 budget
 price of seventeen point five zero x
 the imf has advisedafrican government s to cut down military
 expenditure and accord adequate priority to rrestigious deve-
 lopment programmes for high economic growth reports the punch x
 foreign lagos                       (From MFA Lagos)
 21/7/93
 1633 hrs
 for duty officers x

 grateful confirm if rok there x
 bgy out on stdby x
---------------------------------------------

 Example #4 - Service message

 allallallallallallallallallallallallbgy for all
 bgy for all missions
 unnd x for duty officers x
 this is to inform u that bgy is now open for normal operation
 today 22/12/95 x msgs can now come in while cfmation
 follows x sorry for silence for the past few days x it was
 due primarily to power problems x grateful come in and cfm
 how u copy this test call at yr respective ends x x
 foreign lagos
 22/12/95+++
```

BELGIUM/MFA Brussels (Thanks to Roberto R, Mike C and Geoff H)

Transmission modes used:
FEC/A 96bd
Packet 300bd
Type 6028 100bd (+ 105bd ITA/2 channels - either sideband reported)
(refer vft section in this issue).

Logged frequencies: 11105 14902 14474 (suppressed carrier of vft)
Reported frequencies:10143 11506 15760 17481 18695 18810
24080.7 24805.7 24806.7 24808.7?

Notes on operation:
[Sun]
Language: French, Flemish(?), Dutch
Messages in paged offline encryption (5 letter groups)

6028 vft currently (May96) has channel 2 missing.

Reported callsigns/selcals for parent MFA/Embassies:

D40	Brussels
D46	Cairo

Dictionary:

ambabel	Belgian Ambassador
belext bru	MFA Brussels (Belgian exterior Brussels?)
clair	in the clear.
kode	in code, encrypted
objet	Subject or reference
Varsovie	Warsaw?

Sample message formats:

Example #1 - call sequence - D40 (Brussels) calling D46 (Cairo) - 10/Apr/96

```
 test d40  test d40  test d40
 the quick brown fox jumps over the lazy dog 1234567890
 the quick brown fox jumps over the lazy dog 1234567890
 the quick brown fox jumps over the lazy dog 1234567890

 d46 d46 d46  van d40 d40 tu me recois tuours   bien   ????  kkkk
```

Example #2 - Chatty op exchange signing off (in Dutch) - (RR)

```
 zo eddysindieff~vyt nopzjvpnp~le prettige dag veri~xer en to
 no~~~~~~h~~~~~ dag verder en to nog eens kkkkk

<a bit garbled. it sez ''so Eddy ..... have a nice day. see you later>

 okokok linda dat is 5555  danke en ook  eengoeie dag verder  bibibib

<ok Linda that is 5555 thanks and same to you. bibibi>
```

Example #3 - Messages encrypted and plainlanguage (French) - 31/Jan/96(RR)

```
 belext bru a ambabel le caire       (MFA Brussels to Cairo Ambassador)
 20 du 31.01.96  kode                (nr20 of 31/Jan  encrypted)

 rpt varsovie                        (Repeat Warsaw?)

 zzzzz abzit abzit abzit abzit abzit whfts icart udtmr daajk
 qjgej iolze buqdp wejwd fumpb vnxsy kasrl dwujd jwutd lucvz
 dypwz zcsyh hebtz ljcgk ygrgz kdzig ugxwh mxjvn uxmyx stvnc
 ifqic grrnn cplza vcrzv lgdmi ccpxf defps pgdbf svcmx tnowc
 eahdy kaxou rgsvk nffis azgku liupa rmqlp phcpj fzrpg gvzcj
 jjudi wquis tfqru tlrkl uyzzb heikw zucrv cdetb xbdtj gkbbl
 ylvrk mwlml oifvz irzpj rfodt tkevq ctufd bajtd hvdav pswpt
 wrsrr meapi ragso cdfpm bcldv pgdft yogwd zaipe gbkio lfsza
 ykriv iypkj vcxzy rujcr qbwkj wmjri kbpre owwhp oowka dicst
 hrcjm nlkqs bkzli zhgay itpeb wpmrq tcssr tockq damkp btqfb
 wdruz fvmwd wyzaa ygcjf grhpr uzxbq euwjb sdhrq sjfgc fegeg
 nlrni xxzmw ogtil ugpxv qcpop aepmg ecwkj pwvko vgjms gzzck
 zzzzz
 bt
 gr121                               (group count)
 nnnn

 belext bru a ambabel le caire       (MFA Brussels to Cairo Ambassador)
 21 du 010296  clair                 (nr 21 in plain language)

 p52

 objet : importations belges de ptrole de libye     (Subject)
```

concernant votre questcon sur les importations sous rubrique, vous communique les chiffres suivants :

1. ptrole brut (stocks inclus) :
1992 : 1489 t.m. (tonnes mtriques)
1993 : 1856 t.m.
1994 : 9o7 t.m.

2. part des importations de ptrole brut (+ stocks) en belgique par rapport au total des importations belges :
1992 : 1489/32.597 +/- 4,57 pcnt.
1993 : 1856/3o.934 +/- 6 pcnt.
1994 : 9o7/31.594 +/- 2,9 pcnt.

derycke (Signature)

Example #4 - News in Dutch - 1/Feb/96 (RR)

eader
creator : new york - uno - pol status : copy
at : 01/02/96 17:08
type : telegram clearance : clear urgency : normal
ref : new york - uno - pol / fax 83 / 00150
subject : vr - soedan - resolutie 1044
reply to subm-nr :
destinator : brussel - p.31polza1
distribution list :
copy :

addis abeba	- pnd.dummy	y
brussel	- p.51	y
brussel	- p.52	y
cairo	- pnd.dummy	y
londen	- ambassadeur	y
moskou	- pnd.dummy	y
paris	- ambassadeur	y
peking	- pnd.dummy	y
washington	- 1ambassadeur	y

visum :
keywords :
originator : new york - uno - permrep
02/02/1996 . 96/00107
body
from : nr
reaction : ter informatie
fax : 3

betreft : vr - soedan - resolutie 1044

samenvatting: vr neemt resolutie aan waarin de tussenkomsten van de oae in het geschil tussen ethiopie en soedan volledig gesteund worden en soedan nogmaals opgeroepen wordt om de verdachten van de aanslag op de egyptische president uit te leveren.

1. vr heeft vandaag bij unanimiteit resolutie aangenomen waarin soedan verzocht wordt om gevolg te geven aan de eerdere resoluties van de oae, nl. de uitlevering zonder verwijl aan ethiopie van de verdachten van de aanslag op de egyptische president moebarak en htt afzien van het verlenen van steun aan terroristische elementen.

2. tijdens informele consultaties werd de tekst van de ontwerpresolutie (waarvan ik u reeds kopie toezond met mt 71 van 260196) nog wat bijgeschaafd, zonder echter aan de essentie te raken. soedan wordt opgeroepen om te voldoen aan

de eerdere verzoeken van de oae en de secgen moet binnen de 60 dagen aan de vr rapporteren over de implementatie van deze resolutie. wat er dan eventueel zal gebeuren indien soedan niet zou gereageerd hebben, wordt bewust in het vage gelaten. het opleggen van sancties lijkt in de huidige vr-context vermoedelijk op enige tegenstand te zullen lopen. egypte en de rest van de nam hopen dat de politieke en psychologische impact van deze vr-resolutie voldoende zal zijn om soedan zonder al te veel gezichtsverlies toe te laten de zaak recht te zetten.

3. vooraleer tot stemming van de resolutie over te gaan maakten ethiopie en soedan gebruik van hun spreekrecht in deh~vergadering. ethiopie legde de nadruk op de graduele aanpak van het probleem (eerst bilateraal, dan regionaal) en op het nog steeds aanwezige ''goodwill''-arsenaal in addis jegens khartoem. soedan van zijn kant veroordeelde nogmaals alle vormen van internationaal terrorisme en stelde geen enkel probleem te hebben met de objectieven van de voorliggende resolutie : afzweren van terrorisme en uitlevering van terroristen. het betreurt echter dat de tekst geen rekening houdt met de in dit verband reeds door soedan ondernomen stappen. deze gemodereerde reactie van soedan sluit alvast de hoop niet uit op een minnelijke regeling van de zaak via voldoende psychologische druk.

4. aan het formele debat namen alle vr-leden deel. samenvattend kan gesteld worden dat de vr-leden er niet van overtuigd zijn dat soedan zich voldoende ingespannen heeft om de verdachten op te sporen, dat de internationale gemeenschap een duidelijk signaal wenst te geven dat terrorisme niet getolereerd wordt en dat de actie van de vn complementair is aan de tussenkomsten van de oae.

einde van de tekst <end of text>

Maritime
From Ary comes the following maritime related articles.

Digital Selective Calling (DSC)

Under GMDSS, terrestial communication becomes fully automated, with all calls being set up via DSC. According to various sources the amount of false alerts from Inmarsat-C and HF DSC equipment is a cause of great concern. There are complaints about the equipment. Some have protruding buttons that are open to accidental triggering because the buttons are uncovered. Having to uncover the buttons before they can be pushed removes the risk of a false alert considerably. Besides that, they are very tempting to bored and mischievous watchkeepers. Others complain about the complexity of the equipment.

(I have just received a flyer from Lloyds of London Press Ltd indicating that the 2nd Ed. of "Handbook for Marine Radio Communication" is due for release this month. Amongst the updates is a new section on the IMO's guidelines for the prevention of false or inadvertant distress alerts. Cost in the UK - 25. - Day).

New maritime networks

Bert van Rij, active as ever, discovered three new company networks. Modes are SITOR-A and SITOR-B.

o Eastern Mediterranean Athens
  Freqs: 6237.75, 8249.75 (ch 7), 16779.75, 16.616.75 (ch 3)

  The following ships were copied so far:

Callsign	Number	Selcal	Name
	30313	vkxe	mv Marry

```
sxaa       17027  ytqy   mt Yannis (Romilda)
9hei4      24249  mqos   mv super Lady
sxgz       17029  ytqs   mv Anagel Enossis
           63328  ekqd
9hyn 3     63398  eksd   mv Chance
9hsf 2     29448  smof   mv Seaguardian
sxxj       17003  ytvk   mt Athina m
           29396  skac   mv Ioanis
           29475  smzp   mt Birdie
                         mv Lucky Lady

Sample message:
---------------
ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy
ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy ytqy

   eastern mediterranean athens 27/2/96  0745 gmt
   foll for mt lucky lady
   ---
   re tlx 26.2.96 engine spare parts pls adv
   aa. epeidi den exoume spare parts book to
   piston valve einai to idio me to
   p~~~~~~~~  piston rod pn 3 pou einai sto stock
   list me 3220131
   bb. me issa 590812 line lubricator posa
   zitate ???

   rgds/i.giannou

  wf te/sp/op(m)

   30313 marry x
```

o Noble Drilling (West Africa) Ltd

```
Frequency: 6223.3 kHz
Selcals noted: qcck, fyyp, fyyq, fyyx, fyym, fycf, fyyk, xuus, fyyc

Rig                  Selcal      Location
------------------- ---------   ----------
Percy Johns          8773 fyyk   eku 18-a
Noble  West Africa               ubit 83 g
Tommy Craighead                  inanga 2
Lewis Dugger                     cawthorne channel 43
Don Walker           8768  fycf  ubit 84 g
Lay Norble 51
Porthartcort         2663  qcck  Portharcort
```

o Unid Greek net

```
Freqs: 8361.8, 12451.8, 16551.8, 16671.8 kHz
Ships: 00023 mv Aulu, 00100 mv Voyager, 00002 mv Ilob, 00013 mv Trijm
Selcals noted: tvvx, tvxk, txvv, tvqk, tvvq, tvvc, tvxq, tvqm, tvxp,
tvvm, tvqv
```

*** Multiple channel VFT. ***

Multiple channel voice frequency telegraphy (MCVFT or VFT for short) sounds complicated (and I suppose it is) but it is simply the function of using a modem to change the two states (mark/space) each of a number of telegraph channels into two tones (voice frequency) per channel and applying these to what is basically an SSB RT transmitter. USB is the usual choice.

There are quite a number of architectures in use from 2 to 16 channels. Some are to agreed International (CCITT) Recommendations since these were used between PTTs of different countries. I say were since the majority of PTT circuits have transferred to satellite.

Other VFTs are multiple channel carrying fully on-line encrypted military

traffic either (one must suppose) with independent data per channel or each carrying the same traffic in a form of frequency and/or time multiplexed error correcting system. Some of these are variants on the International recommendations but often there is no requirement to meet such standards since they are internal to a single administration.

Whilst far short of the results that can be obtained with the audio spectrum modules of CODE30, a good screen grabber and the graphics facilities of WP5.1 the following is a simple way of outlining the construction of a VFT within the limitations of a text file. The scale represents the 3 khz USB of the suppressed carrier f0. Channel placements are indicated at the approximate offsets (Hz relative to f0) with M and S representing Mark and Space tones respectively. For want of an alternate system I refer to channels incrementally away from the suppressed carrier ie Channel 1 is nearest to the suppressed carrier.

When I was planning this section I was reminded that WUN has, at the web site, a DIGITAL FAQ section which includes a number of these VFTs and that I might like to include the German Navy (DHJ95) and British Piccolo VFTs.

Example a. German Navy (DHJ59 and warships)

```
                      M  S          M  S          M  S
                      M  S          M  S          M  S
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|          |         |          |         |          |         |         |
f0                1000                2000                3000
```

Regularly logged as voice transmissions for RTTY coordination the above shows the digital vft within the USB passband. Three channels appear offset +1190/1870/2550 hz from the suppressed carrier f0. Each channel is 170hz wide. Data is online encrypted at 150 or 200bd. One can only assume that the three channels carry parallel data possibly time delayed on each other (similar to the 6028 system example c below) to provide a frequency division multiplexed system to alleviate transmission errors.
Freq(f0): 2625 4154 6731 6779 8335.5 10271.8 10192.5 10772

Example b. British military Piccolo

```
          MS      MS      MS      MS
          MS      MS      MS      MS
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|          |         |          |         |          |         |         |
f0                1000                2000                3000
```

These are often seen where 6-tone Mk.6 Piccolo is employed. These may be two, three, four channel. Channels are located at offsets 510, 910, 1310, 1910 Hz. Usually USB but LSB is not unknown. All traffic channels are fully online encrypted. Channel 1 is the engineering channel and will sit idle, often for hours. Idle is alternating two central tones, 20 hz apart.

Occasional engineer exchanges in the clear can be noted. Mk.6 12-tone Piccolo is normally found stand-alone ie not part of a vft.
Freq (f0): 7595 9226 9265 10261 10967.5 11018.5 12065 14510 14593 15855
16205 18057 18879 19053.5

Example c. Type 6028, or "Barrie"

```
           !   M  S   M  S   M  S   M  S  M  S   M  S   M  S
           !   M  S   M  S   M  S   M  S  M  S   M  S   M  S
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|          |         |          |         |          |         |         |
f0                1000                2000                3000
```

This is a time-and-frequency multiplex system in which a single channel of traffic is transmitted, not quite simultaneously, on up to 7 FDM channels spaced 340hz. The individual channels are 170hz and are offset at

+850/1190/1530/1870/2210/2550/2890 Hz with an unmodulated pilot tone at 561 hz. This is a common vft but the individual channels run at 75bd and are fully online encrypted. (However see Belgian Diplo above. They use ITA2 at 100bd either in the clear or offline encryption.) Otherwise the baud rate can be up to 110bd.

This system sends the data bit by bit over each channel. The receiving equipment then assesses each channel for a majority character ie over the seven channels the data is received as say P P A P S P P where the majority character is the letter P and this is the one passed to line. By mutual agreement the circuit may not support all channels; MFA Brussels currently does not use channel 2.
Freq(f0): 4083 6785 8172 10616 11010 11105 14821 14902 14474

Example d. RN Gibraltar/GYU

```
          S   M       MS        M      S  M                S
          S   M       MS        M      S  M                S
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|         |         |         |         |         |         |         |
f0                1000                2000                3000
```

The RN employ various vft structures for broadcasts to ships. Here all channels are 75bd but each has a different shift.
Ch.1 + 600 200 hz Note reversed ie low tone is the space.
Used as the channel availability broadcast.
Ch.2 +1105 85 hz 7bit with blocked encrypted traffic.
Ch.3 +1785 340 hz Fully online encrypted.
Ch.4 +2550 850 hz Fully online encrypted.
Freq(f0): 2824.3 4220.3 6370.3 8625.3 12823.3 16986.3 22668.3

Example e. RNZN Waiouru/ZLO

```
          M   S                M                 S      M
          M   S                M                 S      M
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|         |         |         |         |         |         |         |
f0                1000                2000                3000
```

Two 75bd fully online encrypted channels (1- 200hz at +600 and 2- 850hz at +2000) with a CW marker at +2800hz.
Freq(f0): 6337 8598.5 12717 17224.8

Finally
16x85 type (CCITT R39-1) nicknamed in the States I believe as "bandsaw". This consists of up to 16 x 85hz wide channels spaced at 170hz intervals. Just a note to indicate this was (may still be by RAN) used by RAN and the USN. The RAN broadcasts were fully encrypted. The USN however had two clear channels - Ch.14 weather at 74.2bd from KAWN, and Ch.16 AFRTS(?) news at 50bd from APN/UPI. Unfortunately these seem to have disappeared in the last two/three years from HF to that big bird in the sky.

*** Meteo matters ***
MOSCOW MET - In early April I noted Moscow seemed to have dropped his RTTY broadcast. This was later confirmed by Klaus Betke who also posted a short list of active European met (RTTY) stations following a two-day scan.

I'll repeat these for those of you who don't subscribe to the list and say thanks to Klaus.
Bracknell, G 4489 6835 10551.3 14356 18230
Hamburg, D 147.3 4583 7646 11039 11638
Grengel, D 2690.7 5083
Prague, CZR 3196
Warsaw, Pol 111.3 129.5
Rome, I 3172.5 5887.5 11453
Bucharest,Rom 4002 5731
Sofia, Bul 11063

Kiyev, UKR 4442.5
Arkhangelsk,R 5345 7760

MOBILE RADIO/WLO - another station, not quite ceased, but certainly who has ceased his TSBs (Time scheduled broadcasts). The service message being sent with traffic lists and other station info is "FEC mode sitor telex tsb wx broadcast ceased Jan 2 1996. Wx products available arq mode telex are charged. Please ask the operator for details". Another casualty from the US Government budget restrictions?

ROOSEVELT ROADS ? - on the other hand a new station popped up on 3393.7 khz 0630-0720z in UK using 75bd at 850hz and sending KAWN originated weather. Their marker when run had no ID but current indications are USN at Roosevelt Roads. David E. Crawford sent me the following comments - "Have been hearing it here in Florida for the past couple of weeks also. Current sked seems to be 00-12Z, and haven't found a plain text local daytime channel if one exists. Content consists of KAWN wx for the Caribbean area (TAPA, TFFF, TBPB, TJBQ, TTPP, MUCU, MUGM mostly) in random order, KAWN synopsis for the Guantanamo OPAREA, National Weather Service plain English general forecast for the Virgin Islands and Puerto Rico, and frequent Atlantic/Caribbean commercial aircraft position reports. Given the traffic, I'd say Rosie Roads is an excellent candidate for a location. Transmission is typically intermittent, but does come up at least once every 5 minutes for the time hack mentioned by Day. This weekend they've been running mostly continuous quick brown fox stuff. There's never any circuit or station ID that I've seen." Then I noted 7784 khz radiating met 75bd at 850hz at 2240z on the 7/May. Originator KAWN. Klingenfuss Utility Guide for 96 lists this as USAF AWS Ceiba in Puerto Rico. Another email to David - was this the daytime channel he was looking for. He replied "Have heard the 7784 outlet here also (good aviation weather source, actually). Based on the signal level, it could indeed be Rosie Roads, as Elk Horn (the mainland KAWN site) doesn't come in very well here in Florida during the daytime, while 7784 is always very strong. I vaguely remember this running parallel to the 5905ish Elk Horn tx when checking one night, will have to check again to confirm. Now (0130Z) Elk Horn is completely inaudible and appears to be off the air (3230/5905/ 11119, all appx), while 7784 is active and strong. 7784 seems to run around the clock now, though I have heard them pull the plug on occasion.

If 7784 is Rosie Roads, it would be consistent with USAF transmitter usage there for WEFAX transmissions on 4855/7397/7870 (night) and 11622/15781/19363 (day); this was supposedly activated as a replacement for the Homestead AFB station destroyed in 1992 by Hurricane Andrew. The HF FAX txs at Rosie are apparently fed from Offutt AFB (as is Elk Horn) via "land-line" circuit.

Re. programming, I don't think 3393.7 and 7784 are the same circuit. 3393.7 has always carried very limited, Caribbean-only excerpts from KAWN plus the other stuff described earlier; what I've seen on 7784 has been the "generic" KAWN feed, i.e. mostly continental North America plus selected world weather.

I've run across daytime "crypto-crap" RTTYs around 6230 and 6940 during the past week that run on a 5 minute cycle of on/off, but didn't log the particulars since I couldn't copy the text; these may be encrypted versions of the 3393.7 circuit. Why the circuit owners would scramble during the day but not at night, I don't know. I'm still searching for a clear circuit.

At 0148Z, Offutt FAX reappeared on 11122 and 3233, but still no sign of the usually-accompanying KAWN RTTY. 3393.7 is also active with the usual every 5 minute appearances."

Much obliged for all your feedback, David - Thanks

*** Press ***
TANJUG Belgrade - One of their daytime frequencies - 11604 khz YZI233 - remains listed in their ID strings but I've not heard it for some time. Far too long for transmitter downtime. Anyone with fresh info?

Deutsche Welle, Trincomalee, Sri Lanka. 15770 khz (100bd 300hz reversed) appeared in posting's by Eddy Waters (Australia), and David Gentile (UK)

and subsequently in my log book 0800-0930z as a continuous marker without traffic. DW is of course Germany's well-known HF broadcaster with (broadcast) relay facilities in Sri Lanka. I seem to remember a similar transmission some years ago but from a DW installation somewhere in Africa. Is it a link to Germany? Keep monitoring guys - only traffic will reveal.

To complete this month's column thanks to Mike Chace for the following article:-

*** TURKISH POLICE IN BOSNIA ***
You can hear the Turkish Police stationed in Bosnia on the following frequencies; 11201.7 and 10801.7kHz. Stations transmit in standard 100bd/170Hz shift SITOR-A between units in Bosnia and back to base in Ankara. Language used on the links is Turkish.

As some of you may be aware, an agreement was recently signed in New York between the Croatians, Bosnian Muslims and the Turkish who will form a joint police force. The official purpose of the force will be to "provide physical and symbolic comfort" for Bosnian refugees returning home. Some 200 police officers from Turkey are involved.

Traffic on the links is pretty routine and consists mainly of operator chatter and is also rather infrequent, the 11201.7kHz channel being the busier of the two. Short messages are sent about once every hour. The network appears to be active 24 hours/day and at the weekend.

In early March, the network used only selcal TVVC but since mid-April, other selcals TVVV, TVSV and VVSV have also been used. Messages monitored also mentioned a third channel "11000lsb" but no data has been copied there. Perhaps it is a voice-only channel?

Most formal messages on the links are signed (translated) as follows:
MR. BURHAN TANSU, CHIEF OF SECURITY, TURKISH POLICE FORCE COMMAND, BOSNIA HEADQUARTERS, VELIKA KLADUSA

During the recent Turkish "Kurban Bayram" holiday, the detachment sent many greetings messages back to Ankara. Practically the complete order of command within the Turkish Police, Security and MOI was revealed in detail!

Messages have also been signed "t.c.zagreb" which probably indicates that the Turkish Consulate in Zagreb is providing the diplomatic liaison.

My thanks go to Dave Batcho (dbatcho@lascruces.com) who provided translations of the traffic captured.
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The WUN Military Column
Jim Pogue, editor (kh2ar@aol.com)
P.O. Box 3888
Memphis, Tn 38173-0888, USA

Luftwaffe in New Mexico!

Several WUN'ers sent information concerning the German Luftwaffe having a permanent training facility at Holloman AFB, NM after Paul Miller posted a question about the German aircraft over WUN.

Dave Batcho, who lives in Las Cruces, NM, confirmed that "the German Air Force are indeed here. They actually have been training in F-4's for about two years, but they now have brought the Tornados and I their training wing was "officially' welcomed at Holloman a few weeks ago. I don't know if they are using HF at all, but I hear them all day, every day, on UHF out on Holloman and White Sands Range. There accents are distinctive. I guess I ought to put together a list of call signs here one of these days in case they do come up on HF. Does anyone know if the Tornados are HF equipped? BTW, there will be a large number of German AF participation, including some unit coming over from Germany in the next few weeks to participate in the upcoming ROVING SANDS exercise which takes place here in a few weeks. There is a list

of German forces participating in the exercise on the ROVING SANDS home page at: http://www.forscom.army.mil/Rsands/default.htm"

I didn't see a reply to Dave's question about the Tornado's being HF equipped, but if Dave sends a list of the callsigns he has heard, we'll pass them along for general reference.

Rick Albright says that "_The Week_ in Germany, published by the German Information Center in New York, confirms WUN reports about the German Luftwaffe opening a training facility at Holloman AFB in New Mexico. Defense Minister Volker Ruehe said the base will eventually host 42 Tornado fighters and 24 F-4 Phantom fighters. The stable climate and sparse population were given as the reasons for this first permanent foreign military base on U.S. soil. As stated previously on the list, air activity at the base (and during Roving Sands) will probably be confined to VHF/UHF, but air traffic between Germany and New Mexico should provide HF comms (especially on Lajes freqs)."

Then Al Marote sent this information from the _Air Force Times_ magazine: "This was also confirmed by Air Force Times in the latest issue. The German Command at Holloman was established on 1 May and "several" Tornadoes have already arrived. The German government will spend $44 million to build a facility at Holloman.

Then we have this release from the Air Force News Service:
German Air Force opens training center
HOLLOMAN AIR FORCE BASE, New Mexico (AFNS) -
- Part of the German Air Force has a new home in southern New Mexico with the opening here of the German Tactical Training Center May 1.
The TTC is the only facility of its kind in the United States and it commands two German aircrew training squadrons. An F-4 training squadron flies 24 aircraft with the instructors participating in the F-4 training program under contract with the U.S. Air Force. The Tornado training squadron uses 12 aircraft to provide academic and high-quality tactical flying training. The units are expected to fly about 2,500 sorties yearly.
The new facility brings 300 military people and more than 300 family members. The German government paid the moving costs of the aircraft and supporting activities and facilities, to include about $42 million in construction.

So we have some interesting possibilities there! Thanks to all for the great information.

Tom Roach forwarded an interesting article posted in the c4i group. There is still hope for HF comms, Tom reports...

BAFCEAEDU@aol.com
AFCEA=92 Professional Development Center will present its course on High Frequency Radio for Military Communications
June 24, 25, 26, 27, 28, 1996
This course is Unclassified.
Location: AFCEA International Headquarters, Fairfax, Virginia

The resurgence of high frequency (HF) radio communications has involved many who have not been associated with HF radio previously but are now responsible for operation, planning and/or management of HF radio systems. This course was developed specifically to meet the needs of persons without communications experience, or with a communications background but little or no HF experience or training. The course covers virtually all facets of military HF radio communications and provides students an appreciation of the many factors that collectively produce reliable HF radio communications systems.

Complex technical material has been simplified and focused upon the essential techniques needed to obtain reliable HF radio communications employing ground and skywave propagation. Basic applications and planning of military HF radio networks and systems, as well as the practical propagation characteristics, are included. HF antenna systems, both field expedient and commercially procured, are covered in detail. The course relies on basic

reasoning and charts/nomographs, minimizing mathematics and background physics. Emphasis is placed upon the practical application of basic theory to lead the student through the complexities of the HF radio discipline.

OBJECTIVE
This course will provide students having little or no previous communications experience a firm foundation and clear understanding of HF radio communications.

WHO SHOULD ATTEND
This course has been designed for personnel having responsibilities involving communications by HF radio or requiring an understanding and appreciation of the basic principles, applications and practical considerations of HF, one of the more complex forms of radio communication disciplines. Persons with responsibilities in broad communications areas, e.g., planning, architecture, design, whose background is primarily in line of sight or satellite systems will find this course useful.

COURSE OUTLINE: High Frequency Radio for Military Communications

HF Radio Regulatory Matters
- International and National Policy
- Spectrum Allocation and Frequency Coordination
- Assignment, Rules and Infractions

HF Radio System Principles
- Noise and S/N Ratio
- Systems and Nets
- Modulation

HF Systems Planning/Engineering Considerations
- Elements of an HF System
- Technical Considerations
- Non-Technical and Logistic Influences

HF Radio Propagation Principles
- Ground Wave
  - Line of Sight
  - Surface Wave
- Skywave
  - Ionospheric Composition and Cyclic Variations
  - Influence of the Ionosphere
  - Solar Anomalies and Compensating Actions
  - Frequency Sharing

Propagation Prediction and Path Instrumentation
- Long Term Prediction
- Prediction Methods
- Path Performance Studies
- Near-Real Time Propagation Forecasts
- Real-time Path Instrumentation, Assessment and Frequency Usage

HF Antenna Principles
- Wave Creation and Radiation Patterns
- Transmit Antennas
  - Self Resonant
  - Broadband
  - Tuned
- Receive Antennas
  - Passive
  - Active

Application and selection of commercially procured HF antennas
- Directive and Power Gain Relationships
- Broadband Antenna Applications
- Sector Arrays and Rotatable Antennas

HF Antenna Feed/Terminator Devices
- Antenna Feed Principles

Baluns and Impedance Matching Transformers
Antenna Couplers and Line Flatteners
Transmission Lines

Antennas Peculiar to Shipboard Operation
Use of Vertical Antennas
Antenna Cluster Applications
RFI Considerations Due to Shipboard Antenna Use

HF System Siting Principles
Space, Shielding and Terrain Limitations
Electromagnetic Compatibility (EMC)

HF Installation Considerations

NVIS and Nap-of-the-Earth Operations

Fading and Diversity Techniques for Digital Systems
In-Band Diversity
RF Diversity

Interference and Jamming

LPI and LPD

New and Emerging High Frequency Technologies

Operation of HF Radio Systems and Stations

Mr. Alan S. Christinsin, P.E.
Course Coordinator and Lecturer

Mr. Christinsin was a civilian communicator, engineer and instructor for the Air Force for over 40 years. He is currently President of ASC & Associates, Ltd., a communications consulting firm that specializes in high frequency radio communications. Mr. Christinsin is a recognized expert on high frequency radio communications and a well known lecturer, author and instructor. He has two patents covering HF whip-tilt adapters and has designed several HF tactical and special purpose antennas.

Register by submitting the following information to:
AFCEA=92s Professional Development Center
4400 Fair Lakes Court
Fairfax, Virginia 22033-3899
Phone: (703) 631-6135 FAX (703) 631 4693
email aafceapdc@aol.com

Course Name or Number: Course 135P
Date Course Convenes: June 24, 1996

AIR FORCE NEWS
Air Force to get another operational B-2
WASHINGTON (AFNS) -- Under Secretary of the Air Force Rudy de Leon signed a letter of transmittal to Northrop Grumman Corporation May 24 to upgrade the B-2 flight test vehicle AV-1 to operational status.

This follows the recent decision by the Air Force to upgrade AV-1 to an operational aircraft, bringing the operational B-2 fleet to 21 aircraft.

The upgrade includes replacing the landing gear, a new avionics suite and modifications to the aircraft structure, fuel system and weapons bay doors.

The B-2 Spirit is the Air Force's low-observable bomber capable of delivering both conventional and nuclear munitions. Its "stealth" characteristics give it the unique ability to penetrate most air defenses. These stealth characteristics, combined with its long range and large payload, provide a powerful force projection capability.

Gen. Ronald R. Fogleman, Air Force chief of staff, said the B-2, with the addition of a precision conventional weapons capability this summer, "will cause us to completely rethink the way we plan attacks -- instead of the number of sorties required to take out one target, our planners will decide the number of targets to take out on one pass."

"The B-2 embodies global reach/global power -- providing our commanders in chief with rapid, global precision response," said Secretary of the Air Force Sheila E. Widnall. She added that the aircraft is "an extraordinarily powerful tool for this nation."

The letter of transmittal obligates $150 million with a not-to-exceed value of $493 million. This is a firm fixed price letter contract with an expected contract completion date of June 2000.

EA-6B combined program continues successful start
NAVAL AIR STATION WHIDBEY ISLAND, Wash (AFNS) --
The first Air Force aircrew will graduate on June 6th from the Navy's EA-6B Fleet Replacement Squadron and join one of the five new combined Navy/Air Force EA-6B "Prowler" squadrons.

The joint venture between the Air Force and Navy is the result of a decision between the two services and the secretary of defense to consolidate the mission of airborne threat radar jamming. This decision will result in the Air Force retiring the EF-111 Raven and joining forces with the Navy to stand up five squadrons of EA-6Bs, thereby making the Prowler the United States' sole tactical radar-jamming platform.

The current plan is to have one Air Force crew -- a pilot and three electronic warfare officers -- assigned to each operational squadron and one crew in training at all times. In June, the first four aircrews will graduate, with seven more still in training. Over the next two years the Air Force will gradually build up to a total of 24 aircrews throughout the five squadrons.

In September 1995 the first combined squadron, Tactical Electronic Warfare Squadron, VAQ-134, stood up and has recently deployed to Marine Corps Air Station, Iwakuni, Japan. The second squadron, VAQ-133 stood up in April of this year and will deploy in 1997. The first graduation Air Force aircrew will be assigned to VAQ-133.

"The Air Force members who are here are more than just aviators in a Tactical Electronic Warfare Squadron. They are here to combine the ideology of the two service's needs," said Lt. Col. Ronald Rivard, Joint Operations Staff at Whidbey Island.

The EA-6B decision is a significant new development. The secretary of defense has given a "core mission" of the Air Force to the Navy to manage, and removed a duplicate capability from the Air Force.

"Our success or failure of the jamming consolidation may well prove to be a fore-runner of similar efforts," Rivard said. "The deployment of VAQ 134 and the first graduating aircrew are the first of many benchmarks we anticipate setting with this joint venture."

International exercise ends in Spain
by Capt. Lindsey Borg

ZARAGOZA AIR BASE, Spain (AFNS) -- United States Air Forces in Europe people and aircraft began returning to their home bases May 24 as Matador exercise operations ended here with a final round of morning sorties.

USAFE F-15E Strike Eagles from RAF Lakenheath, England, and F-16 Fighting Falcons from Aviano Air Base, Italy, returned to their bases May 24. Air Force C-5, C-17, C-141 and C-130 aircraft began the task of returning cargo and people to bases throughout Europe.

About 400 Air Force people were among the nearly 11,000 U.S. military members

deployed to Matador '96. U.S. Army, Navy and Marine units played their exercise roles from several locations in Spain and afloat in the western Mediterranean Sea.

Matador provided U.S. and Spanish forces an opportunity for combined-joint training that also will help improve the two countries' ability to operate together on land, at sea, and in the air.

"I believe every Matador participant is leaving here with a better understanding of their U.S. other-service and Spanish counterparts," said Lt. Col. James Venus, commander of the 4616th Air Expeditionary Squadron (Provisional) here. "That can only help smooth future operations when we come together to face common objectives."

USAFE fighter aircraft flew more than 125 Matador sorties, most of which included interaction with Spanish pilots and aircraft. The host country's armed forces flew F-5 and F-18 aircraft during the exercise.

The exercise scenario focused on a call for humanitarian assistance by an imaginary country and included a non-combatant evacuation operation. At one point, U.S. and Spanish fighters attacked the USS George Washington battle group in retaliation for its aggression earlier in the exercise.

In addition to its exercise role, USAFE provided all support for the units and people here. Communications, airfield operations and contracted transportation, security, food service, billeting and liaison with the Spanish were among the issues addressed by the 16th Air Force's 616th Regional Support Group.

Venus said preparation for the support of Matador began in March when an advance team visited area Spanish businesses to negotiate contracts for support. However, the magnitude of the Matador exercise demanded full-time contracting support to meet planned and unexpected needs.

More than $600,000 was obligated to meet Matador support costs, said Master Sgt. Tom Atwood, a contracting officer from the 616th RSG.

"Those funds fulfill Matador requirements in areas like transportation, basic communications, lodging and feeding of the U.S. exercise participants," Atwood said. He added that funds for the air operations and transportation of people and equipment to and from Matador will be drawn from other operational accounts.

GHFS
o Global High Frequency System
Due to a lot of interest and new members, this is a 'info file' originally posted by Tim Tyler over a year ago. It contains the correct spelling and locations of the various USAF stations we hear and the updated GHFS frequencies.

USAF GLOBAL HIGH FREQUENCY SYSTEM
(GHFS)

GHFS is (primarily) an Air Force network providing command control support to the U.S. DOD & NATO, & support on a non-interference basis to other U.S. government agencies and friendly foreign governments. It is primarily an air/ground system, with occasional maritime and ground-based users.

Freq/Station (Guard times)

4724 Croughton (2300-0500)
Elmendorf (Apr-Sep 1800-0800, Oct-Mar 0600-2000)
McClellan (0400-1600)
Incirlik (2000-0500)
Yokota (1000-2100)

6739 Albrook (0001-1200)

Andersen (0900-2000)
Andrews (2400-1000)
Ascension (1800-0600)
Croughton (H24)
Elmendorf (Apr-Sep 0800-1800, Oct-Mar 0600-2000)
Hickam (0400-1600)
Lajes (H24)
Loring (2400-0900) [remote from MacDill name not used]
MacDill (2400-0900)
McClellan (0400-1600)
Offutt (2300-0800)
Thule (H24)
Incirlik (H24)
Yokota (1000-2100)

8968 Andersen (H24)
Andrews (H24)
Elmendorf (H24)
Hickam (H24)
Lajes (H24)
McClellan (H24)
Offutt (H24)
Thule (H24)
Yokota (H24)

8992 MacDill (H24)
Incirlik (H24)
Yakota (H24)

10780 AF Eastern Test Range (Backup for Ascension)
Cape Canaveral (aka "Cape Radio")
Antigua
Ascension
Mahi

11175 Albrook (H24)
Andersen (H24)
Andrews (H24)
Ascension (H24)
Croughton (H24)
Elmendorf (H24)
Hickam (H24)
Loring (H24) [remote from MacDill, name not used]
McClellan (H24)
Offutt (H24)
Incirlik (H24)
Thule (H24)

13200 Andersen (2000-0900)
Croughton (H24)
Elmendorf (Apr-Sep 1800-0800, Oct-Mar 2000-0600)
Hickam (1600-0400)
McClellan (1600-0400)
Thule (H24)
Yakota (2100-1000)

15016 Albrook (1200-2400)
Ascension (0600-1800)
Croughton (0500-2300)
Elmendorf (Apr-Sep 1800-0800, Oct-Mar 2000-0600)
Lajes (H24)
Loring (0900-2400) [remote from MacDill, name not used]
MacDill (0900-2400)
McClellan (1600-0400)
Incirlik (0500-2000)
Yakota (2100-1000)

17976 Andrews (1000-2400)

Croughton (H24)
Elmendorf (H24)
McClellan (H24)
Offutt (0800-2300)
Thule (H24)
Incirlik (H24)
Yakota (H24)

The above data is unclassified information which appears in the 31 MAR - NOV 94 Department of Defense Flight Information Handbook ('FLIP').

All frequencies are Upper Side Band (USB). Discrete circuits are available for prolonged voice traffic or secure data (e.g. AUTODIN access) requirements. The 10780kHz channel isn't technically part of the GHFS, but since it is listed along with GHFS assets, I included it.

GHFS Ground Stations

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ALBROOK   = Albrook Air Base, Panama
ANDERSON  = Anderson AFB, Guam
ANDREWS   = Andrews AFB, Maryland
ASCENSION = Ascension Island Auxiliary Air Base, Ascension Island
            (N. Central South Atlantic Ocean)
BAYONNE   = Military Traffic Management Command Emergency Comms Center,
            Bayonne, New Jersey
CROUGHTON = Croughton Air Base, England, United Kingdom
ELMENDORF = Elmendorf AFB, Alaska
HICKAM    = Hickam AFB, Hawaii
LAJES     = Lajes Air Base, Azores
LORING    = Loring AFB, Maine (MacDill GHFS Remote Site, name not used)
MACDILL   = MacDill AFB, Florida
MCCLELLAN = McClellan AFB, California
OFFUTT    = Offutt AFB, Nebraska
INCIRLIK  = Incirlik AB, Turkey
THULE     = Thule Air Base, Greenland (pronounced "Tool-Lee")
YAKOTA    = Yakota Air Base, Japan
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Many of the aircraft heard on GHFS channels use the static, tactical callsign "REACH" followed by numbers and/or letters. "REACH" is the static, tactical callsign issued by the USAF Air Mobility Command for aircraft on AMC missions. If you just hear "REACH #####" the aircraft is most likely using its tailcode. If "REACH" is followed by letters & numbers, then the aircraft is usually using their mission #. This is most often done for missions requiring diplomatic clearance. Tim Tyler hooligan@aol.com

That's all we have time for until next month...

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New Products, Books, News and Reviews
Rick "RD" Baker, editor
1352 Cavalcade Dr., Austintown, Ohio 44515-3844
utelistener@msn.com or ae411@yfn.ysu.edu

|Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column (not via the clubs D.C. address to save mail costs)|

My planned review for this month could not be completed due to extended work on the Newsletter and other WUN issues. So we'll try and get back on track next month.

News

o Interesting www sites

Jeff Haverlah sent information on Digital's Alta Vista search engine, which visits and 'captures' the various WUN (and it's member's) web sites. If you run a search on things such as "emergency action messages", "Nightwatch 01", maritime stuff, digital stuff, etc, etc, the Alta Vista

engine will usually report it if it's captured on the web pages. It'll also report info out of that wunner's hobby website that "archives" the list postings. The Alta Vista engine turns out to be a quick way to find something in back wun newsletters based on keyword searchs - for people with web access. To access, point your browser at
http://www.altavista.digital.com/

Jeff reports that the engine is so good, huge, and *fast* that you can do things such as search for your (or anyone's) name (it's a status thing right now on the web to see how many "hits" a person's name has on this engine.) If you are going to search for, say, information on the NEACP, you type NEACP in the search block and hit "submit". This particular instance will find DoD stuff, plus Tim Tyler's NIGHTWATCH article etc (and any other wun page that contains the term "NEACP" - if you run a search on NAOC, you'll get tons of "hits" on the National Association of Older Canadians, btw.) It'll work for "NIGHTWATCH 01"; "emergency action messages"; frequencies; that Little Creek place on the East coast; callsigns; "USSTRATCOM"; "TACAMO"; EC135:; airline info: and anything else that is captured in the wun newsletters on Berri's web site, plus that list archive site (and anywhere else on the web for any and everything.) Digital says that they get about 8,000,000 hits a day on their site, and it's free. A recent press release says that Digital is going to set up AltaVista servers in Europe and maybe elsewhere to speed the search process up for folks that have to access the U.S. from overseas.

I tried this site and boy was it ever neat! Give it a shot!

New Products
o Internet Radio Guide
Klingenfuss Publications announced recently the publication of their brand new handbook INTERNET RADIO GUIDE for 20 JUN 1996, "in time for the world's biggest amateur radio exhibition [outside of America, hi] HamRadio '96 in Friedrichshafen on beautiful Lake Constance".
The release continues..."New editions of our RADIO DATA CODE MANUAL and of the 1996/1997 GUIDE TO WORLDWIDE WEATHERFAX SERVICES (both handbooks now including many Internet addresses!) will be presented as well. The INTERNET RADIO GUIDE covers all radio-related fields such as amateur radio, aviation, companies, dealers, DX clubs, equipment, geography, geophysical data, intelligence, manufacturers, marine, meteorology, navigation, newsgroups, organizations, publications, radio clubs, radio monitoring, radio propagation, radio stations, satellites, secret services, shortwave reception, solar data, weather services, and the like. For more details see http://ourworld.compuserve.com/homepages/Klingenfuss/ , or ask for our free catalogue to your postal address. Thank you for your interest, and see you on 28 - 30 JUN 1996 in Friedrichshafen hall 1 stand 164 as usual!"

73 es best DX, Joerg Klingenfuss

Or by mail: Klingenfuss Publications, Hagenloher Str. 14, D-72070 Tuebingen, Germany Phone ++49 7071 62830 Fax ++49 7071 600849 E-Mail 101550.514@compuserve.com

That's all she wrote for this month. Have fun....! DE RD
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Utility Monitoring in the Maritime Bands
Editor: Jim Pogue (kh2ar@aol.com)
P.O. Box 3888
Memphis, TN 38173-0888 USA

Jim continues to be extra busy with work, so with regrets, he sends a shortened column again this month.

o M/V OOCL Britain christened (From Steve Schultz and the SHIPS listserver)
The first ship delivered by a shipyard in Kobe, Japan, since the January

1995 earthquake was christened 19 April at Southampton. The M/V OOCL Britain, a 4,960 TEU capacity containership, was built by Mitsubishi Heavy Industries and will be used in the Europe to Asia trade. M/V OOCL Britain is the sixth of eight ships - the remaining two, to be named the M/V OOCL France and the M/V OOCL Germany, will be delivered later this year.

o Matson Navigation net

Rick Albright has noted a regular net on the old "12 Bravo" maritime simplex frequency of 12356 in USB. The daily Matson Navigation call-up is at 1700 and recently found Monukai/KNLO discussing new Globe Wireless software for ship comms. Rick also notes Matson ships have been good QSLers in the past. Thanks Rick!

If any of you know of similar scheduled times and nets, why don't you drop me a line?

o The Mystery of Ship Callsigns

I had seen the callsign for M/S Song of America listed as LENA vice LENA3 and after seeing a post by John A. Wrafter, who serves aboard her, I asked which one was correct. I thought his reply would be of interest.

"Ships under the Norwegian flag can be registered in one of two ways. On the GENERAL registry or on the Norsk Internasjonalt Skipsregister (known as NIS registry). A ship on the General Reg. will have the standard four-letter callsign, i.e. LNMO etc. A newly-built ship going directly onto the NIS registration will have the figure '2' appended to its callsign, i.e. LNMO2 etc. A ship transferring from the General to the NIS reg. will have the figure '3' appended to its callsign, i.e. LNMO3 etc."

"To the naked eye there is no apparent diff between a ship registered on the General reg. and one on the NIS reg., the devil, as they say, is in the detail. Under NIS registration the shipowner enjoys the advantage of a more liberal tax regime plus the benefits of more 'relaxed' manning and safety requirements. Not surprisingly then most Shipowner's find NIS registration the more attractive way to go. A number of other European countries have similar arrangements, though whether or not they follow the same procedure in relation to CallSigns I really don't know." "Hope this clarifies the situation a little. All the above of course is based upon my understanding of the situation and may or may not be correct."

Thanks to John for that information!

o Updated Russian shore calls

Jason Berri recently posted this updated copy of current Russian shore station call signs, extracted from his RMSD v2 documentation.

Home Port Call Signs

Cuba:

CLJ	Havana R. CLJ	unchanged

Estonia:

ESA	Tallinn R. ESA	ex UAH/UNS/UTA
ESF	Tallinn R. ESF	ex UTA/RKBF/ESF
ESP	Paernu R.	ex RKDF

Georgia:

UHK	Batumi R. UHK	unchanged

Latvia:

YLQ	Riga R. YLQ	ex UDH/UKB/UQK

Lithuania:

LYK	Klaipeda R. LYK	ex UNM2
LYL	Klaipeda R. LYL	ex URB2

Russia:

RFA	Astrakhan R.	ex UKJ
UAT	Moskva R.	merged UAT/UJE
UCE	Arkhangelsk R.	ex UXN/UGE
UFN	Novorossijsk R.	unchanged
UGC	St.Peterburg R.	ex URD
UGW	Novorossijsk R. UGW	ex UNQ
UIW/2	Kaliningrad R. UIW	ex UJY/2
UDK2	Murmansk R.	merged UDK2/UQA4
UNI	Ventpils	ex ULZ
UHS/UHY	Murmansk R. UMV	ex UMV
UDB2	Kholmsk R.	ex UAD2
UDC4	Korsakov Sak. R	ex UKW3
UPW2	Liepaya R.	unchanged
UGH3	Provdenija R.	ex UPD
UBE2	Petropavlovsk R.	unchanged
UFL	Vladivostok R.	unchanged
UFZ	Vladivostok R.	ex UKA

Ukraine:

URK9	Kertch R.	ex UKG	
URL	Sevastopol R.	unchanged	
USO	Izmail R.	ex UJO3/5	
USU/UTW	Mariupol R.	ex UBN/UDC	selcall 3650 (ex 3710)
UTM/2	Feodosia R.	ex UEK/2	
UTQ/7	Kiev R.	ex UJQ/7	
UUI/UTT	Odessa R.	ex UFB/UDE	selcall 3651 (ex 3712)
UWS3	Kiev R. UWS3	ex RWHB	
UWY	Ialta R.	ex UCO	

Robin Hood in the UK also sent the following information too late to be added to Jason's list. Robin notes that UQA4 is listed by Jason as being in Murmansk as it is by Klingenfuss. Ferrel's list has it as Kiev. Robin isn't sure who it is, but last heard it March 1994 with a traffic list to "4LS", which is the collective callsign used by UDK-2. Does anyone know if UQA4 is still in operation? If anyone can add any information to the list, drop Jason a line at berri@aero.org or at my "snail" address above and he will keep us posted.

==========

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STATION VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

CIVIL SHIPS						
M/S Leeward/3FKM5	4071.0	USB	PFC	16 ds		(HW)
M/S Fascination/3EWK9	4071.0	USB	PFC	42 ds		(HW)
FIXED STATIONS						
Malta ATC/LMMM	5637.0	USB	PFC	-- ds	signed veri	(CK)
NDB Gainesville, FL/GN	269.0	CW	PFC	190 ds		(JD)
New York AFSS/WSY70	10051.0	USB	PFC	21 ds	decals, crest	(MB)
Shannon VOLMET/EIP	3413.0	USB	PFC	25 ds	ltr, QSL, folder	(MB)
FDC (French Defence Comms)	10470.0	USB	---	41 ds	IRC used	(HW)
MILITARY/COAST GUARD SHIPS						
USS Dolphin AGSS-555/NFXP	8297.0	USB	PFC	11 ds	USN research sub	(RB)
USS Juneau LPD-10/NROP	8297.0	USB	PFC	12 ds		(RB)

MILITARY/GOVERNMENT AIRCRAFT

CGAero/CG6011	5696.0	USB	PFC	23 ds	(HW)
CGAero/CG2139	5696.0	USB	PFC	25 ds	(HW)
CGAero/CG1720	5696.0	USB	PFC	25 ds	(HW)

# # #

*** THE LITTLE BLACK BOOK ***

Costas Krallis (SV1XV) of Athens, Greece furnishes the following address for his recent logging of Malta air control:

Communications Centre
Dept. of Civil Aviation
Luqa Airport
Malta, Greece

Jill Dybka of Nashville, TN sends along the following for hunters of non-directional beacons:

NDB GN
4301 NE Waldo Rd.
Gainesville, Florida
32609

A recent QSL received by me from New York Radio contained a pretty impressive package of goods, including a 12" color decal of the FAA shield suitable for framing, an assortment of smaller stickers, a gold cachet of the seal of the U.S.A, and a cloth crest featuring the FAA logo. The official return address is:

New York Automated Flight Service Station
150 Arrival Avenue
Long Island MacArthur Airport
Ronkonkoma, New York
11779

WUN regular Tim Tyler recently reported hearing the Gonzo 06 callsign being used on Canadian Forces HF channels. A little digging by him revealed that the prefix refers to a fleet of Dash-8 turboprops that are used for flight training at CFB Winnipeg. Tim provided the following address for anyone running into them again (11232.0 kHz) who'd like to try for a QSL:

Canadian Forces Air Navigation School (CFANS)
17th Wing
Canadian Forces Base Winnipeg
Westwin, Manitoba
R3J 0T0

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USING FAX TO QSL RAISES QUESTIONS

Last month we suggested that utes might try an alternative to the usual way of QSL'ing by postal service, namely by faxing reception reports or their follow-ups directly to the station. The idea in itself can't be all that far-fetched when you consider that at least one major publication of utility station information (Klingenfuss 1996 Guide to Ute Radio Stations) lists fax numbers for utes in many parts of the world, along with their regular addresses.

Some SWL's, especially broadcast listeners (VOA, BBC), report having had success using fax, especially to North American stations. "I have been using this method for follow-ups to U.S. and Canadian BCB stations with great success for a year now," John Stephens told us recently. "In many instances, I get a verification after the first fax follow-up, when written follow-ups (sometimes numbering as many as nine or ten sent over a four year period) get no response."

On the other hand that's BCB activity, and utes are probably a totally different situation. Despite their availability, the fax numbers of

utility stations are set up primarily to transact official business. There's a good chance that the people receiving these faxes might not even understand what you are talking about. And in the extreme case of actually sending a reception report by fax, without return postage or PFC, odds of a reply become even more slim.

But this is not to say that using fax at any point in the QSL process is impossible... it's just till now been mostly unheard of, and it's probably impractical. There is only one station that I know of (WNU, Slidell Radio, Louisiana) that is on record (via the WUN list) saying they welcome reception reports by fax. The only other one that comes close is Great Lakes phone relay WLC, which is said to enjoy receiving 'signal' reports. But note that a 'signal' report is not the same as a request to QSL, and that WLC has never said they would do the latter.

Note also too that Rick Baker reports five tries to them using conventional means in five years and they still didn't budge. So here's a case where clearly the existence of a fax line probably doesn't make any difference at all. (To this we might add a little sidebar with respect to postal QSL'ing, to the effect that Rick normally waits at least a year before following up a reception report.)

The use of fax, then, as a tool for QSL'ing is unusual, to say the least. But maybe a better term might be 'novel.' Which is to say that there are virtually no cases so far of a monitor using it successfully, even in the odd instance. It's not something that ought necessarily to be encouraged. But as an 'experience' in QSL'ing, maybe once in a ute's hobby it might be tried for the sake of saying it's been done.

# # #

TIPS FOR MERCHANT SHIP QSL'ING

One of the first things to keep in mind before getting into marine QSL'ing is that merchant vessels are notoriously difficult to track down. There is a complex chain of command involved between the ships' owners, agents, or charters. The organization can get even more complicated if some of the vessel's on-board services are delegated out (as they increasingly are) to contractors who are independent of the owner or agent.(As noted in a previous column, this is currently a trend in shipping management, especially in the areas of on-board food services and radio communication.) Not to discourage anyone before they've embarked into this branch of QSL'ing, since there are some die-hard fans of marine (Rick Albright, Jim Navary) whose enthusiasm speaks for itself.

Be ready to invest in a lot of references. But if, despite a great deal of enthusiasm, your budget happens to be somewhat restricted, the more expensive or hard-to-locate ones that might simplify ID'ing can be out of reach. These more useful and costly sources include Lloyd's Shipping Register, ITU callsign lists, etc. (A way around this problem, however,is to ask for help on WUN, as there are members online who have these works.)

Although it's outdated, the best low-cost source for North American merchant ship identification and owner addresses is the two-volume softcover "Utility QSL Address Guide" by Symington and Henault (1987-88). It also lists the government-owned shipping companies of many foreign countries that have little non-government shipping. These books can usually be found at suppliers of SWL and amateur-radio equipment.

Listening to radio traffic can provide clues to vessel ownership (especially ship-to-shore phone calls), which can then be followed up through phone book collections which are often kept at public libraries (or also via increasingly popular CD-ROM phone lists). If you know the ship's route, you may be able to direct your mail to the line's branch office or agent on the route, rather than to the mail office in another country. And if you happen to do digital monitoring of sitor traffic, it's all that much easier to 'read' and snag an agent's name or address from message headers.

For German ships there's the softcover "Schiffsliste, Verzeichnis der Deutschen Reederein und Ihrer Seeschiffe," published yearly by Eckard & Messtorff, Roedingsmarkt 16, Hamburg D-20459, Phone: 0 40 37 13 34. (The cost was DM53 in 1991.) It ID's all German-owned (not just German-flagged) merchant ships, including callsigns and vital stats, and then lists owners and their addresses.

It's also useful to quiz the radio officer each time a QSL is requested. Often they will list other company ships and callsigns and offer

lists of 'mail drop' agent addresses for their ships. Pacific Maritime magazine, published monthly in Seattle, is considered a good source of Pacific Rim shipping news that often helps with figuring out who owns which vessel. If you are in any way connected with the industry, the cost of a subscription can be quite cheap, but the rate for non-industry subscribers is much more costly. If you happen to have Usenet access, you might also find it useful to scan message bases like MISC.TRANSPORT.MARINE and ALT.GREAT-LAKES for relevant information that occasionally pops up there, or to ask questions.

Marine QSL'ing is probably not one of the easier aspects of the ute hobby. But as they say, no pain no gain. And if you happen to be an old salt (or just a wannabe), it may be the only way to go.

Note: Special thanks to Rick Albright for help in preparing this months's column.

# # #

Thanks to this month's contributors:
(RB) Rick Baker, USA
(CK) Costas Krallis, Greece
(JD) Jill Dybka, USA
(MB) Martin Barry, Canada
(HW) Harold Woering, USA

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UTILITY ROUND-UP

[editor: Ary Boender (ary@bitbike.com 2:283/512.24)]

SIGINT in Canada

Like most countries, Canada has its own club of professional dxers: The Communications Security Establishment (CSE). CSE is Canada's intelligence agency who derives information from the interception of communications (COMINT/SIGINT). CSE originally began as the Communications Branch of the National Research Council (CBNRC). In 1947, CBNRC took on the additional responsibility of serving as the Canadian government's communications-electronic security (COMSEC) agency. Prior to 1947, the government's encryption systems and keys had been provided by the UK. On 1 April 1975, CBNRC became the responsibility of the MOD and its name changed to the Communications Security Establishment.

o What is COMINT/SIGINT ?
  COMINT (COMmunications INTelligence) / SIGINT (SIGnals INTelligence) is the collection capability for the interception and decoding of communications traffic. Usually the most desired type of traffic is clandestine, private or diplomatic but also of interest is the monitoring and analyzing of military traffic sent in the "clear" as military protocol does sometime fail and important information is sometimes sent without the usual coding. Satellites and other sophisticated stuff is often used.

o Who's doing what ?
  CSE is processing and analyzing the information derived by others. The actual collection of the SIGINT is conducted by the Canadian Forces Supplementary Radio System (SRS), a component of the Canadian Armed Forces that operates under the direction of CSE. The SRS was formed in 1966 as part of the unification of Canada's Armed Forces. The SRS is responsible for the operation of SIGINT collection and HF-DF facilities.
  CSE and the SRS in turn work in close co-operation with the giant US and British SIGINT agencies, the National Security Agency (NSA) and Government Communications Headquarters (GCHQ), Australia's Defence Signals Directorate (DSD), New Zealand's Government Communications Security Bureau (GCSB), and a number of other SIGINT agencies in a global intelligence alliance known informally as the UKUSA community. CSE maintains permanent liaison officers at NSA HQ and GCHQ. There are also NSA and GCHQ liaison officers at CSE HQ.

o CSE/SRS Facilities
  # CSE Headquarters, Sir Leonard Tilley Building, Ottawa (CSE also has offices in the Insurance Building, three floors of the SBI Building, and the ``warehouse'' on Merivale Road) ``Kilderkin'' intercept site, Ottawa (monitors Russian embassy)
  # CSE intercept sites at Canadian embassies and consulates (locations secret) SRS Headquarters, Tunney's Pasture, Ottawa CFS Alert, Ellesmere Island, NWT (operates SIGINT collection and Pusher HF direction finding (HF-DF) antennae; intercepts mainly ex-Soviet air force, air defence force, and other military communications)
  # CFS Leitrim, Ontario (near Ottawa; operates SIGINT collection and Pusher HF-DF antennae; also four satellite monitoring dishes; intercepts diplomatic communications in/out of Ottawa and some satellite communications; also supports other SIGINT stations)
  # CFS Masset, BC (operates SIGINT collection and AN/FRD-10 HF-DF antennae; intercepts mainly maritime military communications; part of the US Navy's worldwide BULLSEYE HF-DF net)
  # 770 Communications Research Squadron, CFB Gander, Newfoundland (operates SIGINT collection and AN/FRD-10 HF-DF antennae; intercepts mainly maritime military communications; part of the BULLSEYE net)
  # 771 Communications Research Squadron, located at CSE HQ, Ottawa
  # SRS Detachment (located at NSA headquarters, Fort Meade, Maryland, USA ??; formerly located at US Army Field Station Augsburg, Germany)
  # CFB Kingston, Ontario: E Squadron, CF School of Communications and Electronics (conducts SRS intercept operator training, including Russian language training) and 1 Canadian Signals Regiment.
  # SRS members also serve on exchange at various US Navy (Naval Security Group) BULLSEYE net sites in the United States; a comparable number of USN personnel serve at Canadian sites.

DXing New Zealand, pt.2
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''Haste make waste'' certainly goes for the Ute Round-up column last month. It was a rush job and much to my regret you, the readers, have become the victims. I copied the frequency information from various publications and because of serious lack of time I did not double check that info. Consequently the incorrect information ended up in the column. My sincere apologies folks.

I'd like to thank Andrew Brill for his corrections listed below and his additional info.

8975.00		AF Palmerston - No such station. Probably refers to RNZAF base Ohakea. (This is not a regular HF station although they may come up on the odd occasion to work Airforce Auckland or Airforce Woodbourne on 8974 or the other general purpose net freqs 5688/8974/11235/13206)
8975.00	ZKX	AF Auckland - Old freq - now 8974
8992.00		AF Ohakea - see 8975
8992.00		AF Whenuapai - Call is "Airforce Auckland" location is Whenuapai Airbase
8992.00		AF Wigram - Wigram Airbase now closed. Functions transferred to Auckland (Whenuapai airbase) and Blenheim (Woodbourne Airbase) - Woodbourne uses the call "Airforce Woodbourne" on general purpose net.
8997.00		US Navy Christchurch
8997.00	ZKX	AF Auckland - 8997 was the freq for aircraft operating between Christchurch and the Antarctic. Has now been replaced by 8998. Originally (many years ago) this traffic was controlled from Deepfreeze HQ Christchurch, but is now done from Auckland Oceanic ATC. To the best of my knowledge Airforce Auckland has never been involved in this traffic. Airforce comms would be on RNZAF freqs eg 8974.
9027.00		AF Dunedin - There is no RNZAF base at Dunedin. Any loggings of this call would be most likely a mobile or portable station set up for a special purpose eg.

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                    exercises etc. Certainly not a "regular" RNZAF station.
  13241.00          US Navy Christchurch
  13251.00          US Navy Christchurch - see 8997 - 13251 is the 13Meg
                    freq for Auckland wkg Antarctic traffic.
   9950.00  ZME 4 Raoul Island Meteo  - Not a meteo stn. Old HF channel
                    used for transmitting data from the weather station
                    back to NZ. Long since replaced by automated satellite
                    link.
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NZPO stations: all the mentioned freqs are very old freqs and no longer used. NZPO was the New Zealand Post Office which used to be responsible for Telecommunications in NZ until 1991. NZPO telecom division was privatized and sold to Telecom New Zealand. All HF radio services were discontinued. (Including the Coast stations ZLD/Auckland ZLW/Wellington ZLB/Awarua and ZLC/Chatham Islands. The above freqs were used for radiotelephone comms between Wellington Radio Islands service (ZLZ) and the weather stations. These services have now gone to satellite, as has the link to Pitcairn Island.

Maritime HF radiotelephone services provided by Wellington Radio were discontinued and New Zealand's Distress, Weather and Search and Rescue obligations under SOLAS (Safety of life at sea) treaty were picked up by Taupo Maritime Radio/ZLM which is operated on behalf of the Maritime Safety Authority by Broadcast Communications Limited, a company which also provides transmission facilities for NZ TV stations. ZLM is run from an operations room north of Wellington and has remote HF transmitters/receivers near Taupo in the Central North Island (just down the road from Waiouru where the Navy COMSTA is located).

Note also that the stations listed as "Coastguard" (CG) are not military as in the USCG. Members of the New Zealand Coastguard Federation are voluntary organizations which provide search and rescue facilities using privately owned vessels and equipment. It is purely a search and rescue and marine safety operation and has no law enforcement or military functions.

o Department of Conservation (National Park Rangers):
  2270, 2272, 2348, 4616 kHz

o Fire Service:
  Freqs assigned but seldom if ever used: 2568, 5066 kHz
  (I know the HF gear at the Auckland Fire HQ was removed because they got sick of listening to the hash and turned the set off. They then figured that since if Wellington wanted to work Auckland they had to ring them up and tell them to turn on their radio, they might as well pass the message over the phone). Callsigns ZKF101 thru ZKF701

o The following is a list of mountain radio service base stations with contact addresses:

```
  # 3261kHz:
    ZLIB  Canterbury Mountain Radio Service
          PO Box 22342, Christchuch, NZ
    ZKFK  Southland Field Radio
          Mill Road South, RD1 Invercargill, NZ

  # 3345kHz:
    ZKBY  Central North Island Mountain Radio Service
          44 Rotokawa St., Taupo, NZ
    ZKKV  Hawkes Bay Mountain Radio Service
          12 Upham Crescent, Taradale, NZ
    ZKVS  Northland Mountain Radio Service
          P.O.Box 1410, Whangarei, NZ
    ZKJG  Wellington Mountain Radio Service
          P.O.Box 30519, Wellington, NZ
```

o Maritime stations
  # ZLA the Globe Wireless transmitter at Awanui is Sitor only at present and is remotely controlled from San Francisco. (No staff on site in NZ).

The ZMH series stations are all Private Coast Stations (ie not government operated. The voice callsigns ought to follow the following format: Location, Station type, "Radio". eg Auckland Harbour Radio.
Official station types are:
"Harbour" - Port Operations
"Fishermens" - Commercial fishing Operations
"Coastguard" - Volunteer Search and Rescue/Marine Safety.
"Association" - Station run on a non profit basis by a group of individuals who contribute to the costs - eg a group of boat owners in a remote area will operate a station for their mutual benefit.
"Sport" - Station to support sporting events eg regattas, yacht clubs etc.

There are considerably more stations in existence than those listed. Numerous yacht clubs, shipping agents etc have stations which operate irregularly on HF.

o Maritime frequency list

2012.00		Auckland Harbour R
2012.00		Manukau Harbour R
2012.00	ZMH 211	Wanganui Harbour R
2012.00	ZMH 74	Gisborne Harbour R
2012.00	ZMH 84	Wellington Harbour R
2045.00		Bluff Fishermens R
2045.00		Kiangora Fishermens R
2045.00		Marlborough R
2045.00		Pitt Island R
2045.00		Waitangi Fishermans R
2045.00	ZLRZ	Half Moon Bay R
2045.00	ZLTH	Riverton Fishermens R
2045.00	ZMH 203	Preservation Inlet R
2045.00	ZMH 211	Wanganui Harbour R
2045.00	ZMH 222	Great Barrier Island R
2045.00	ZMH 25	Napier Association R
2045.00	ZMH 26	Onerahi R
2045.00	ZMH 28	Wellington R (Note: this station is run by the Wellington Trawlermens association and nothing to do with the old Wellington Radio / ZLW !)
2045.00	ZMH 29	Houhora R
2045.00	ZMH 33	Motueka R
2045.00	ZMH 50	Timaru Fishermens R
2045.00	ZMH 57	Nelson R
2045.00	ZMH 61	Lyttleton Harbour R
2045.00	ZMH 62	Westport R
2045.00	ZMH 70	Taranaki Harbour R
2045.00	ZMH 70	Tauranga Harbour R
2045.00	ZMH 74	Gisborne Harbour R
2045.00	ZMH 75	Napier Harbour R
2045.00	ZMH 92	Westport Harbour R
2045.00	ZMH 98	Kerikeri R
2068.00	ZLRZ	Half Moon Bay R
2089.00	ZMH 26	Onerahi R
2089.00	ZMH 28	Wellington R
2089.00	ZMH 39	Whangora R
2089.00	ZMH 44	Tutukaka R
2089.00	ZMH 70	Taranaki Harbour R
2104.00		Kiangora Fishermens R
2104.00		Waitangi Fishermans R
2129.00		Auckland Harbour R
2129.00	ZMH 26	Onerahi R
2129.00	ZMH 28	Wellington R
2129.00	ZMH 65	Banks Penninsular Cruising Club R
2129.00	ZMH 84	Wellington Harbour R
2129.00	ZMH 98	Kerikeri R
2162.00		Auckland Harbour R
2162.00	ZMH 211	Wanganui Harbour R
2162.00	ZMH 70	Tauranga Harbour R
2162.00	ZMH 74	Gisborne Harbour R

2207.00	ZLM	Taupo Maritime R
2207.00	ZKN	Niue R., Niue Island, Cook Islands
2207.00	ZKR	Rarotonga R., Cook Islands
2444.00	ZMH 203	Preservation Inlet R
2444.00	ZMH 222	Great Barrier Island R
2444.00	ZMH 25	Napier Association R
2444.00	ZMH 28	Wellington R
2480.00		Kiangora Fishermens R
2480.00		Kiangora Fishermens R
2480.00		Waitangi Fishermans R
2480.00	ZMH 222	Great Barrier Island R
2480.00	ZMH 25	Napier Association R
2480.00	ZMH 26	Onerahi R
2480.00	ZMH 28	Wellington R
2480.00	ZMH 29	Houhora R
2480.00	ZMH 37	Mangouni R
2480.00	ZMH 39	Whangora R
3023.00		Sumner Lifeboat
4115.00	ZMH 28	Wellington R
4125.00		Bluff Fishermens R
4125.00		Kiangora Fishermens R
4125.00		Marlborough R
4125.00		Waitangi Fishermans R
4125.00	ZLM	Taupo Maritime R
4125.00	ZLRZ	Half Moon Bay R
4125.00	ZLTH	Riverton Fishermens R
4125.00	ZMH 203	Preservation Inlet R
4125.00	ZMH 211	Wanganui Harbour R
4125.00	ZMH 222	Great Barrier Island R
4125.00	ZMH 25	Napier Association R
4125.00	ZMH 26	Onerahi R
4125.00	ZMH 32	Taiaroa Head Signal Station
4125.00	ZMH 33	Motueka R
4125.00	ZMH 39	Whangora R
4125.00	ZMH 57	Nelson R
4125.00	ZMH 57	Nelson R
4125.00	ZMH 62	Westport R
4125.00	ZMH 65	Banks Penninsular Cruising Club R
4125.00	ZMH 70	Taranaki Harbour R
4125.00	ZMH 70	Tauranga Harbour R
4125.00	ZMH 74	Gisborne Harbour R
4146.00	ZLM	Taupo Maritime R
4146.00	ZMH 203	Preservation Inlet R
4146.00	ZMH 65	Banks Penninsular Cruising Club R
4146.00	ZMH 70	Taranaki Harbour R
4180.00	ZMH 26	Onerahi R
4211.00	ZLA	Awanui R
4215.00	ZMH 28	Wellington R
4417.00		Bluff Fishermens R
4417.00		Kiangora Fishermens R
4417.00		Marlborough R
4417.00		Waitangi Fishermans R
4417.00	ZLRZ	Half Moon Bay R
4417.00	ZLTH	Riverton Fishermens R
4417.00	ZMH 203	Preservation Inlet R
4417.00	ZMH 211	Wanganui Harbour R
4417.00	ZMH 222	Great Barrier Island R
4417.00	ZMH 25	Napier Association R
4417.00	ZMH 26	Onerahi R
4417.00	ZMH 28	Wellington R
4417.00	ZMH 28	Wellington R
4417.00	ZMH 33	Motueka R
4417.00	ZMH 39	Whangora R
4417.00	ZMH 57	Nelson R
4417.00	ZMH 62	Westport R
4417.00	ZMH 70	Taranaki Harbour R
4417.00	ZMH 70	Tauranga Harbour R
4417.00	ZMH 74	Gisborne Harbour R

4429.00	ZLW	Wellington R
5473.00		Sumner Lifeboat
5680.00		Sumner Lifeboat
6215.00	ZLM	Taupo Maritime R
6215.00	ZMH 211	Wanganui Harbour R
6215.00	ZMH 26	Onerahi R
6215.00	ZMH 28	Wellington R
6215.00	ZMH 32	Taiaroa Head Signal Station
6215.00	ZMH 65	Banks Penninsular Cruising Club R
6218.00	ZMH 28	Wellington R
6224.00	ZLM	Taupo Maritime R
6224.00	ZMH 211	Wanganui Harbour R
6224.00	ZMH 28	Wellington R
6224.00	ZMH 65	Banks Penninsular Cruising Club R
6227.00	ZMH 28	Wellington R
6315.00	ZLA	Awanui R
6516.00	ZMH 26	Onerahi R
8215.00	ZMH 32	Taiaroa Head Signal Station
8255.00	ZMH 32	Taiaroa Head Signal Station
8287.00	ZLM	Taupo Maritime R
8291.00	ZLM	Taupo Maritime R
8294.00	ZMH 28	Wellington R
8297.00	ZLM	Taupo Maritime R
8297.00	ZMH 28	Wellington R
8417.00	ZLA	Awanui R
8449.00	ZKR	Rarotonga R., Cook Islands
8791.00	ZKR	Rarotonga R., Cook Islands
12290.00	ZLM	Taupo Maritime R
12290.00	ZMH 32	Taiaroa Head Signal Station
12356.00	ZLM	Taupo Maritime R
12580.00	ZLA	Awanui R
13140.00	ZKR	Rarotonga R., Cook Islands
16420.00	ZLM	Taupo Maritime R
16420.00	ZMH 32	Taiaroa Head Signal Station
16531.00	ZLM	Taupo Maritime R

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The WUN Logs Column

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Thanks a whole lot to Andy Brill in New Zealand for volunteering to step in for Team Logs member Carl Quick. With more and more members, we are having our work cut out for us! You can help quite a bit if you post or e-mail your logs by using the WUN format. Also, please make sure your using 'carrier' or 'center' frequency on digital logs vice 'window frequencies', if you tune in USB. Lastly, if you log a maritime station in the sitor bands with it's "sitor free" phasing signal and CW ID, please list the mode as ARQ (Sitor-A) vice CW. The CW ID just ID's the sitor station and I'd like to make sure these all get into the digital section.

John Doe in England asks why CW is separated from the digital modes. When we first set up the categories, it was thought to keep the digital section logs in with those which a decoder was needed. Since many folks can use thier 'ear' for CW, we place CW right in with the other proper sections (i.e. maritime, military, etc). This way, if you don't have a decoder, you don't have to wade through a hundred lines to find a log of interest. And thanks again for the logs by mail "John"!

75 contributors this month, lets keep those card and letters coming! Especially since membership surpassed 1,000 this month!

=CIVIL AERO=

2887 New York: (CAR-A MWARA) 0832 USB wkg Argentina 1300 w/ATC req for 390 from 370, had been told originally to descend 350, very hard time getting flight to read back correctly *with* it's flight number. (RB)

2899 SHELL 63 2304 USB wkg Shanwick, 58n20w 2304 FL390 58n30w 2344 (RC)
3016 Shanwick 0032 USB wkg Sta. Maria (DES)
3425 Hawaiian-466 1028 USB wkg Nadi, Nice strong sig from nadi on 3425. (SB)
5541 LDOC Stockholm, S 2241 USB w/pp from DHL 412 to DHL Flight-control & DHL Maintenance Control, was enrt Heathrow >Basel and back. (JS3) Stockholm LDOC: (EU-LDOC) 0305 USB wkg unid flt w/posrep, selcal ??-AJ. (RB) WOA276 1808 USB wkg Stockholm/ARP CLC F350 Fuel 11.0 sel/GHES N276WA. M803 1838 USB wkg Stockholm/ARP Titus F330 Msg. to Sun Country ops. WOA277 1802 USB wkg Stockholm/ARP MC F410 fuel 47.7 N277WA MD11. AFR440 1824 USB wkg Stockholm/On ground Paris for radio check. SVA5737 2142 USB wkg Stockholm/ARP Tuko2139 F310 Fuel 99.4 From Lahore ETA OEJD(0005) sel/AHDG N603FF B747. WOA271 2129 USB wkg Stockholm/ARP MMV F370 Fuel 69.8 N271WA MD11. SAS973 2202 USB wkg Stockholm/Req. selcal check BFDL LNRCD B767 (RD3)
5547 Swisair 17 1015 USB clg San Francisco with Posrep. (AW)
5550 Pack 44 2311 USB wkg New York & Reach 110XX. '44 says refuel done, heading home. 110XX cleared en route. (PR) New York: (CAR-A MWARA) 0831 USB wkg Argentina 1300 w/0831 posrep, adv QSY now to 2887 w/NY. (RB) LUFTHANSA 463 2245 USB wkg New York. 463 couldn't find waypoint HUBER which New York had given them in a clearance. A quite vigorous discussion ensued. New York finally went offline for a few minutes as 463 insisted that HUBER wasn't on their charts. New York finally figured out that it was a new name for waypoint WAITE or WATTE or something like that (TB)
5574 San Francisco 1038 USB wkg "United 196" w/selcal (AW)
5598 Condor(?) 173 0157 USB wkg NY, pos. 42N50W. (DES) QUID 71 2035 USB wkg Shanwick, posn 46n 08w/2058 air refuelling GORDO 12. (HW) HB-IEJ 0522 USB w/Shanwick @ 48N/30W "AR-EG" a/c type? TWA 840 0537 USB w/Shanwick @ 48N/30W "EF-AD" N93104 747-100. (JSM) Navy LANCER 37 2035 USB wkg Santa Maria, 45n2330w 2135 FL250 50n25w 2232 Next 55n2430w. My list says "LANCER" used by EA-6B of VAQ-131 Whidbey Is. ????. COTAM 1185 2033 USB wkg Shanwick. Recd. clearance from 48n08w to 17n60w M.82 FL330 Selcal BCMS. (RC)
5616 Reach 70022 1108 USB wkg Iceland (C-141B) nh (WH) CFC 1671 1806 USB wkg Shanwick climbing (BH) Delta 118 0145 USB wkg Shanwick. (DES) CFC 3213 1852 USB w/Shanwick, posn: 50n30w/1852 FL370 50n20w/1941 50n15w/ next w/selcal AS-CQ. Info? (HW) CanForce 111 2213 USB wkg Gander for Ocean Clearance to Greenwood via 47N 50W, FL240, 340 knots. SAM 300 2331 USB ARP Gander, FL410, 50N 40W @ 2330z. Eastbound. (PR) Shanwick 1429 USB wkg BLUE 91, 56n10w 1429Z FL250^270 5536n15w 1456 next 5518n 1744w. Escorting BLUE 41, a flight of four.(ANEE) LDOneZeroD to Shanwick 1107Z. USB 60n??w 1057Z FL240 55n19w 1146Z Next 50n20w. N906WK wkg Shanwick 04241830Z USB 53n20w 1825 FL390 54n30w 1917 Next 52n40w (RC)
5637 Cairo ATC 1748 clg Khartoum. (CK) Athens 0340 USB clg Limnos, no reply. First time ever heard anything on this Greek aviation frequency. Athens was coming in at over S7! (TB)
5643 QF-7554 1410 USB wkg Honolulu radio Cargo Flight. NZ-1 1410 USB wkg Auckland radio Auckland to london via Los Angeles. QF-40 2057 USB wkg Brisbane radio. Auckland to sydney 767.300. EVA-365 2104 USB wkg Brisbane radio. Taipei to Auckland 767.300. Singapore-285 2105 USB wkg Auckland Radio. Singapore to auckland 747. QF-100 2108 USB wkg Brisbane radio. Los Angeles to Melbourne 747. Freedom Air-958 1019 USB Brisbane.Christchurch to Brisbane. 757. NZ-154 1019 USB wkg Auckland. Polar Tiger-5063 1021 USB wkg Auckland FL-350 Freight run. VH-EAO 1022 USB wkg Brisbane DKEL QF 767.200 Radio-selcal check. QF-7 1026 USB wkg Nadi QRAF VH-OJR 747.400 Then to 6553, 3425. QF-11 1031 USB wkg Honolulu Sydney to Los Angeles. LQCE VH-OJM Unable to lock onto Oakland Center on Sat link!. Singapore-7297 1035 USB wkg Auckland, Auckland/Perth/Singapore. NZ-54 1140 USB wkg Honolulu Auckland Los Angeles. United-841 1143 USB wkg Honolulu Los Angeles to Melbourne. QF-12 1144 USB wkg Honolulu Los Angeles to Sydney. Polynesian-844 1147 USB wkg Auckland, Auckland to Tonga. 737.400. United-815 1153 USB wkg Honolulu Los Angeles to Sydney. EVA AIR-1185 1154 USB Honolulu. QF-4 1155 USB wkg Honolulu, Honolulu to sydney. QF-49 1201 USB wkg Auckland Sydney to Auckland. PACIFIC AIR EXPRESS-3517 1201 USB wkg Brisbane. Lockheed Electra N360Q.

Cairns to Honiara. First ever flight! VH-HFJ 1204 USB wkg Brisbane Cairns to Noumea on a emergency aero medical flight. Falcon-20. May have gone on with the call VFJ. (SB)
5649 Ascot 2703: 2159 USB selcal chk with Gander. CF-AH, VC-10 XV105. (PR)
5658 PIA 746 2234 USB wkg Sanaa (A300)reg. AP-BAX, selcal AGEH, A300 Johannesburg - Karachi(Sanaa to relay to Nairobi). SEU 492B 2237 USB wkg Cairo -> Khartoum (B737)B737, Luxor - Mombassa fl290, SML (Abu Simbel) 2259 (any ideas which company SEU is? Couldn't find a scheduled flight from Luxor to Mombassa in the ABC either. DLH 8296 2237 USB wkg Cairo -> Khartoum (B747)B747, Frankfurt - Nairobi, fl 330, SML 2314. AFR 481 2245 USB wkg Khartoum -> Cairo (B747)B747, Nairobi - Paris CDG, fl310, SML 2344. KLM 564 2248 USB wkg Cairo (MD-11, PH-KCH)route MRW (Merowe) - SML (BH) Bombay ATC 0003 USB wkg ?503. (Couldn't catch airline name). Egypt Air 703 0005 USB from Cairo to Khartoum wkg unid ATC (missed station he was clg). Sana, Yemen 0006 USB wkg unid flight. Couldn't hear flight ID. Addis Ababa, Ethiopia 0140 USB wkg Khartoum Sudan. Lufthansa 575 0050 clg Tripoli w/no response. (DES) Cairo ACC, EGY 2235 USB TFC Speedbird 506. (JS3) HTT2055 2310 USB wkg Khart'm-ARP/GNA2010 STM0031 PS0117 F270 ETA OEJD 0145.a/c type B707 reg'n C5AMM ! SAB571 2317 USB wkg Tripoli -ARP ORNAT 2317 F310 KUFRA2351. MSR878 2320 USB wkg Cairo/Khart'm -(Jeddah -Tripoli) F350 a/c EA30. KQA321 2322 USB wkg Cairo/Khart'm- (Cairo-Khartoum) F330 a/c B737 ARP/SML0025. QSC215 2324 USB wkg Cairo/ Khart'm -(Basle-Mombassa) F330 a/c DC10 ARP/SML0005. KQA107 2337 USB wkg Cairo/Khart'm-(ESSA-Nairobi) SML0022. MAU059 2345 USB wkg Khart'm-ARP/TOKAR F370 sel/GRQS 3BNAU A340. BAW132 2350 USB wkg Cairo/dep.OEJD2323 climbing to F390 est.GIBAL 2352 LUXOR0029. Destination EGLL.a/c B777. CFG264 2355 USB wkg Khart'm/ARP-GS0025 F370 GKR0034 sel/LMBR DABUA. AUA531 2359 USB wkg Tripoli/ARP SEB0037 F370. (RD3)
5667 Tokyo 1025 USB wkg several a/c, posreps, selcals. Hong Kong 1026 USB wkg SAM82, posrep (AW) Honolulu 0956 USB wkg North West flight. (SB)
5673 Beijing China 0950 USB Volmet (AB3) Unid 1359 USB Volmet w/computer voice. (SB)
5680 C-GTHN Fairchild (Swearingen) SA26T Merlin IIA belonging to Keewatin Air Ltd 0525 USB wkg ? Radio w/wx for Baker Lake & Churchill. This is probably Churchill FSS. Thanks to Peter Ivakitsch for ID. (CM)
5691 Unid 2126 USB Sounds like a CIS volmet station.. very faint even with Head-Set on. (SM) (Irkutsk Volmet, Russia at H+25 slot -LOGS)
6532 Tokyo 0856 USB wkg All Nippon-9402 (SB)
6535 OTIS 85 1706 USB wkg Dakar, Overhead Dakar (C-130, US Marines). RRR3451 1805 USB wkg Dakar, BIMUT/1803 FL330 AMDIB/1821 25N18W/1851 30N20W/1930 selcal DHKL. Also wkg Canarias (TriStar, RAF). Reach 168XX 1820 USB wkg Dakar, FL350 AMDIB/1928 FL350 (AMC a/c). SHADO 52 1845 USB wkg Dakar, to VHF 120.5 (C130, USAF). OTIS 85 1905 USB wkg Freetown, Departed Rota, destination Freetown. Reach 168XX 1910 USB wkg Dakar, PLATY/1855 FL350 AMDIB/1933 AKDAK/next, a/c was warned for opposite traffic QUID 94!. Action 03 2000 USB wkg Dakar, climbing out of FL73 to 240. SESEL/2036, abeam Bissau/2047 KOMOR/2053 to 120.5 VHF (c/s not spelled, C130, USAF). Flash 86 2010 USB wkg Dakar, FL180, type of a/c C130. Be advised the other C130, Flash 85, is KIRTI/2010 to Freetown (c/s not spelled!). Flash 85 2010 USB wkg Dakar, See flash 86. Same info. QUID 94 2040 USB wkg Dakar, EKAGA/2038 FL280 SAKNA/2052 AKDAK/2103 LIMEL/2117 eta Dakar/2145 Type of a/c is KC-135, registration is 571439. Departed Dakar at 1746, no landing at Freetown. (HW)
6553 Solomons 771 0900 USB Wkg Nandi - no contact Honiara on 6553 or 3425 (AB3)
6556 MALAYSIAN 121A 1440 USB w/Perth @ "IPKON" (08-5.3S/100-14.6E) "MQ-AB" 9M-MHN 747-400 Kuala-Lumpur - Melbourne (JSM)
6559 SPEEDBIRD 58 2105 USB being adv by Johannesburg to report leaving FL315. (TB)
6577 New York: (CAR-A MWARA) 0405 USB wkg American 951 (767 N370AA) w/posn Duce at 0405, FL330, selcall ck AP-FQ, adv contact Miami now on 132.3. (RB)
6586 RKA816 2210 USB wkg Accra,Abidjan/Dep Abidjan 2205, ETA Niamey 2341 passing F125 to F230R330 0300 hrs fuel 128 pax a/c reg'n TUTAS A300. KLM584 2211 USB wkg Accra/Lagos to EHAM on UR981 ARP SENOR 2220 F350.

BAW58 2215 USB wkg Accra/ARP ROSTO 2215 F310 LIRAX 2230 (RD3)
6604 VFG: Gander Volmet, NF, CAN 0251 USB (NAT-VOL) w/aviation wx for St Johns, Halifax, Gander, Stephenville, others. (RB)
6610 VH-SUR Australia 0838 USB Central/East network (AB3) VH-ADP 2211 USB wkg Brisbane radio PA-22 private. VH-TNX 2215 USB wkg Brisbane radio. Dash-8 Sunstate Airlines. VH-FNM 2215 USB wkg Brisbane radio. I think it's Flight west. VH-LPW 2219 USB wkg Brisbane radio. PA-32R Private. VH-ELJ 2229 USB wkg Brisbane radio. No Idea. VH-ELZ 2233 USB wkg Brisbane radio. Cessna-402 Private. VH-TGI 2255 USB wkg Brisbane radio. Twin otter Sunstate Airlines (SB)
6616 VH-CEN 2300 USB wkg Brisbane radio. Beech-95 Private. VH-XFC 2301 USB wkg Brisbane radio. Twin Otter. Flight West. P2-MBU 2306 USB wkg Brisbane radio. Twin Otter. Milne Bay Air Cairns to Horn Island. P2-MBZ 2314 USB wkg Brisbane radio. King Air. Milne Bay Air Port Moresby to Cairns. (SB)
6622 Port Moresby PNG 0800 USB Moresby working A/c P2-ANC P2-ANP P2-SIL (AB3)
6628 Sta. Maria 0014 USB wkg Unid flight. NY 0019 USB wkg Springbok 2026, pos. (DES) New York: (NAT-E) MWARA 0205 USB wkg Air France 241 w/posrep, selcal EK-GM (747 F-GCBJ). (RB)
6637 ARROW AIR 661 0428 USB w/Miami "on the ground at Bogota" N661AV DC8-63F pp to comp re exceeding 18 hr work day. VARIG 987 0606 USB w/Houston "over northern Mexico" N8968U "HK-AB" DC8-62F LAX- Panama. FINE AIR 27UA 0408 USB w/Miami, N27UA DC8-61F San Salvador-Miami. AMTRAM 4260 0345 USB w/Houston, just dep't Howard AFB for Houston, 152 pax; reporting reduced power in #2 engine, N188AT L1011-50. SOUTHERN AIR 204 0434 USB w/Miami - just dep'td Bogota for Miami, "BG-CD" N873SJ DC8-73F (JSM)
6640 San Francisco 0936 USB ARINC LDOC (AB3) AMERICAN 647 2141 USB wkg New York w/PIREP of continuous light chop around waypoint HOMER (TB)
6649 Panama Radio: 0530 USB wkg Japan Air 64 w/0530 posrep at FL 370, 0609 est. (RB)
6655 Tokyo 0848 USB wkg United-890 (SB)
6656 Calcutta Radio 1357 USB tfc. (SB)
6673 San Francisco: (CEP-5 MWARA) 0349 USB wkg Continental 83 w/posrep, ATC clearance request for FL 350, adv to contact Honolulu on 112.82, stand-by for ATC ok. At 0345 wkg Delta 157 w/posrep,fol by Hawaiian 9 w/req for a primary freq. (RB)
6676 Bangkok radio 1040 USB Volmet wx. (AW) Unid 1354 USB Volmet. (SB) (probably Singapore at H+50 slot -LOGS)
6679 Unid 0941 USB Volmet for Japan.(SB) (Tokyo Volmet at H+40 slot -LOGS)
6730 CIS Volmet 0906 USB Load & strong on both rigs. (SM) (Aktyubinsk or Kazakhstan in H+05 slot -LOGS)
8846 OTIS 91 1939 USB req radio check from NY ATC (MF)
8861 "Echo Charlie Victor" 0732 USB clg Lae PNG (AW) ?-104 0018 USB PNG military flight ?????. P2\PHA 0035 USB AS350B Squirrel helicopter fm PACIFIC HELICOPTERS. P2\HCO 0037 USB Bell 206 Jet ranger HEVI LIFT. P2\SIV 0039 USB Turbo Islander SIL AVIATION. P2\HLH 0040 USB ????. P2\MBB 0041 USB ????. P2\MBR 0043 USB ???? I think these two flight's are Milne Bay Air. P2\LAG 0236 USB ????. P2\IHH 0237 USB ???? Possible Island Aviation. P2\MBR 0238 USB ???? Daru to Port Moresby. P2\ANU 0240 USB F-28 Air Niugini. P2\MBN 0241 USB Citation jet Milne Bay air. Aussi\106 0242 USB RAAF a/c. P2\IAJ 0256 USB Bandirantie Islands Aviation. P2-MBB 0123 USB wkg Moresby radio. Twin Otter Milne Bay Air. P2-MBF 0128 USB wkg Moresby radio. Islander. Milne Bay Air. (SB)
8864 Gold 81 1315 USB wkg Gander 61n 30w 1321 fl350, 61n 40w 1401, 59n 50w req fl370: unable due traffic. N430A 1318 USB wkg Shanwick (Westwind) 53n 30w 1332 fl330, 53n 20w 1409, 53n 15w (self-ID'ed as Westwind). Reach 410MR 1351 USB wkg Gander 61n 30w 1402 fl370, 61n 40w 1444, 59n 50w. Utah 82 1207 USB wkg Gander (KC-135) 57n 30w 1206 fl350, 56n 40w 1254, 54n 40w. Reach 1240 USB wkg Shanwick (C-141B) 49n 30w 1237 fl350, 52n 20w 1324, 53n 15w. N667SW 1618 USB wkg Shanwick (Gulf-stream) self ID's as Gulfstream, selcal LPES. N500MH 1620 USB wkg Gander clg, no joy. Maine 95 1342 USB wkg Gander (KC-135, 132 ARS, Maine ANG)58n 30w 1340 fl370 mach .82, 58n 40w 1419, 57n 50w (BH)
8867 PACIFIC AIR EXPRESS 3517 USB w/Brisbane /no selcal/ Lockheed Electra N360Q, Honiara to Brisbane.(JSM) Polynesian-843 0202 USB wkg Brisbane

radio Apia to Sydney. EVA AIR-366 0207 USB Brisbane radio Auckland to Taipei. NZ-31 0225 USB Brisbane radio Auckland to Narita. N319Q 0227 USB Brisbane radio To Sydney, any help with ID please. Coastwatch -117 0234 USB wkg Brisbane radio, enrt to Mackay QLD. VH-HJH 0234 USB wkg Brisbane radio To Lord Howe Island. QF-46 0234 USB wkg Brisbane radio Christchurch to Sydney. NZ-79 0250 USB wkg Brisbane radio Auckland to Hong Kong. Air Nauru-321 0255 USB wkg Brisbane radio Nauru to Melbourne. Reach-6E7 0600 USB wkg Auckland radio; to Auckland on it's usual run. Niugini-3 0615 USB wkg Brisbane radio Port Moresby to Brisbane. Reach-6E8 0619 USB wkg Nadi radio To Honolulu. QF-11 0633 USB wkg Nadi radio LQCE VH-OJM 747.400. Air Van-17 0259 USB wkg BNE Port Villa to brisbane EPDR VH-TJI 737.300. VH-SVN 0304 USB wkg BNE PA-31 Chieftain Seaview Air. VH-HJE 0310 USB wkg BNE PA-31 Chieftain. NZ-21 0313 USB wkg BNE Auckland to Singapore. Cathay-108 0314 USB wkg BNE Auckland to Hong Kong. Pacific -931 0315 USB wkg BNE Melbourne to Nadi. FREEDOM-961 0317 USB wkg BNE. United-842 0318 USB wkg BNE Melbourne to Los Angeles. Coast Watch-173 0352 USB wkg BNE To Mackay 1500ft. PREMIER-1972 0353 USB wkg BNE B727 freight. Pacific-950 2109 USB wkg Nadi radio. Brisbane to Nadi 737.500. Indonesia-866 2112 USB wkg Brisbane radio. Jakarta to Auckland DC-10. NZ-34 2118 USB wkg Auckland radio. Narita to Auckland 747. Polynesian-843 2120 USB wkg Auckland radio. Tonga to Auckland 737.300. Kiwi-799 2132 USB wkg Auckland radio. P-3 Orion 4202 BGAH RNZAF. VH-EWB 2154 USB wkg Brisbane radio F-28 Ansett Australia. CGBF. Aussi-163 2206 SB wkg Nadi radio. RAAF. (SB)

8903 ETHIOPIAN 960 0039 USB w/Brazza @ "ERAVA" (03-10.6N/006-47.2E) "FL-DE", ET-AIZ 767-200E Legos- Brazzaville. GAF 880 0124 USB w/Brazza @ "TAKUM" (06-54N/10-20E) German Air Force Reg # 10-01 707-300C EDDK-Kinsasha. SBZ 013 0147 USB w/N'Djemena @ "KIRMI" (22-21N/009-59E) Scibe Airlift Zaire 5N-MXX (on lease?) 707-300C, destination Kinsasha. (JSM) Air France-273 0336 USB wkg Moresby Noumea to Paris. QF-97 0337 USB wkg Moresby Cairns to Fukuoka. Japan Air-772 0344 USB wkg Moresby Sydney to Narita (SB)

8906 Blue 01 1815 USB wkg New York (KC-xxx) est zibut 1940. Reach 4R1 1819 USB wkg Shanwick nothing heard. N995BC 1824 USB wkg Gander (Gulfstream) 47n 30w 1823 fl410, 48n 40w 1919, 49n 50w, selcal LRDS,self-ID'd as Gulfstream. Gold 91 1349 USB wkg Shanwick (tanker, USAF) discussion abt posn after LASNO, comms problems, Gander relayed, ->5598 where a/c was totally unreadable & Shanwick barely. (BH) Portishead Radio 2102 USB wkg '503' passing frequency of 139.95 for Madrid. (TB)

8921 Speedbird 962 0057 USB w/unk ground station, pp ops & maint regarding hydraulic pressure problems. (KW2) (probably wkg Speedbird London, British Airways -LOGS)

8930 United 941 1402 USB wkg Stockholm (B777, N767UA, UAL)relay to company dispatch: ACARS inop, comms via Stockholm radio :-) selcal AQBJ *** see remark *** (BH) Stockholm 1459 wkg unid flight 401. Note that this station comes in strong on all freqs I listened on. (DES) TOW100 1530 USB wkg Stockholm/p/p to Edwards & then Moscow ! Re.AF1 & msg for to be passed to Aide on board a/c. TOW100 wished to know when next mission would and where to ? WOA278 1550 USB wkg Stockholm-ARP/IZK F370 Fuel 19.4 ETA WRSJ/0010. WOA271 1543 USB wkg Stockholm-ARP/PADSO1543 F370 Fuel 108.2 sel/GHAR N271WA MD11 Fl/t op. as MAS202. WOA275 1553 USB wkg Stockholm-ARP/GETUK1553 F350 Fuel 63.2 ETA Jeddah 1805. SEDPK 1633 USB wkg Stockholm/req pp to Company in Sweden. DA10. EWW9122 0954 USB wkg Stockholm/p/p to Dispatch-ETA Chicago 1720 Has 2 dogs on board & problem with slight crack in wind shield,to pass msg on to maintx. LTU127 1000 USB wkg Stockholm req pp to ops dusseldorf. DCIEL 1008 USB wkg Stockholm/req radio & secal check/BFKM DA10. SWW3162 1012 USB wkg Stockholm/dep Heraklion 0900/13 ETA ENGM 1615 51pax. DAL93 1014 USB wkg Stockholm/Radio & selcal check/CDES N184DN B767. DAL77 1025 USB wkg Stockholm/On ground Munich for selcal chk/CDBS N182DN B767. WOA112 1058 USB wkg Stockholm ARP VELEX1026 F350 Fuel 30.6 N112WA DC10. DAL72A 1028 USB wkg Stockholm/radio & selcal chk/BMCJ ? UAL917 1036 USB wkg Stockholm, pp to 'SAM' LHR (UAL Maintx) Flt on ground Frankfurt, problem w/APU fuel pump. DAGEJ 1055 USB wkg Stockholm/Radio chk-unreadable to call 11345 B737. AFR7262 1057 USB wkg Stockholm/Radio & selcal chk/JLGK

FGEMD A310. DAL20 1204 USB wkg Stockholm/selcal chk/GJCE. AEA744 1203 USB wkg Stockholm/selcal chk/AEJR EICIY B767. UAL941 1211 USB wkg Stockholm/selcal chk/AQJL N776UA B777. DAL107 1213 USB wkg Stockholm/req pp for private call, change to 10805. DAN837 1237 USB wkg Stockholm/o/h Barcelona, req pp to ops (RD3)

8942 THAI 981 1600 USB w/Singapore @ "MINOS" (00-00/109-01.7E) "GK-EJ", HS-TGS 747-400 Bangkok-Sydney (JSM) SIA998 1800 USB wkg Manila, req selcal check DQAS 9VSMY B747 (RD3)

8957 Shannon Volmet 2350 USB aviation wx. (KW2)

10033 BIG A 661 1647 USB w/Miami "over Texas, departing Houston", "HK-AD" N661AV DC8-63CF (JSM)

10051 New York Volmet (NAT-VOL) 0100 USB w/aviation wx for various cities, ID, "this is New York Radio". (RB) VFG: Gander Volmet, NF, CAN 0024 USB w/aviation wx. (RT2)

10075 Houston Radio 0208 USB wkg unid a/c 68J, radio ck, departed Miami Int Aprt flying over Ft Lauderdale FL. (KW2)

11300 Cairo ATC 1526 USB wkg united 573 (I think. Couldn't hear the AC & the Cairo op was talking really fast...). Cairo & Khartoum 1528 usb passing info. (SM)

11345 Air Berlin 2044 1356 USB wkg Stockholm (B737 is all they have) pp Air Berlin Ops, Berlin. No details. (BH) Stockholm 1457 USB wkg Delta 106 getting pos. rpt, req ETA Bombay. EQAC selcal. Stockholm 1632 USB wkg Indonesian 7502, a/c not heard. Selcal ACOH. Stockholm 1220 USB wkg Lufthansa 504. Shifted to 10805 for pp w/company in GM. Plane & ground sta weaker on 10 megger. (DES) AFR002 1050 USB wkg Stockholm, pp to Ops-req.KJFK wx for 2200. Concorde (RD3)

11396 AIR CHINA-176 0610 USB wkg Perth radio. Coast Watch-523 0350 USB wkg Perth (SB)

13261 DTA-06F 0123 USB wkg Nadi radio id as a B707 D2-TOP, EGAL, enrt from Manila to Nadi. (SB)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

518 Niton Radio [S] 2024 FEC Nav warnings. Portpatrick [O] 0935 FEC Coastal weather. Portpatrick [O] 2131 FEC Coastal wx forecast. (DW) PC39: NCG Ijmuiden NL 0959 LGQ: Rogaland R NOR 0950 "via Lingby R". GNI: Niton r G 1625 (HL) ESA: Talinn R.EST 2030 FEC all Navtex wngs. (HL)

1942.5 Unid: 1747 QPSK 250bps DGPS info (MC)

1975 Unid: 1751 FSK 300bd/200 DGPS info, ACF=10 (MC)

2216.5 Unid: Guardia Civil 2024 ARQ 100bd/400 Clg selcal "TXXX" (Madrid) (MC)

2442 MOI-Bonn VFT CH1 2140 ARQ-E 94/64 (HL)

2443 MOI-Bonn VFT CH2 2140 ARQ-E 72/64 (HL)

2444 MOI-Bonn VFT CH3 2140 ARQ-E 96/64 (HL)

2789 FUE: FN Brest F 1726 RTTY 75/850 (HL) FUE: French Navy, Brest France 0710 RTTY 75/850 RY's, SG's & Testing. (PS)

2840 MOI Cuxhafen D 2110 ARQ encr.msg (HL)

2844 CFH: CANFORS, Halifax 0419 RTTY 75/850 CARB (JD2)

2892 GYA: RN London G 2119 RTTY 75/850 test 2156 3FG's (HL)

3172.5 IMB1: Roma Meteo,I 2124 RTTY 50bd AAXX (AB) IMB1: Roma met. I 2147 RTTY 50/850 Wx. (HL)

3203 Royal Navy 1941 RTTY 75bd/850 crypto "16ry's vmgtcnjbh" (MC)

3219 UNID: 2213 ARQ-625 "twbb" (HL)

3232 AFS: USAF Offutt AFB, Elk Horn, Ne 0250 RTTY 75/850 w/meteo. (RT2)

3272 MOI Dusseldorf D 2159 ARQ-E Idling (HL)

3272.9 MOI Dusseldorf,D 2130 ARQ-E 96bd Tfc to police Hamburg (PHVNW) (AB)

3331 UNID: 2136 RTTY 45/150 "faj243" (HL) Unid: 2218 RTTY 50bd/170 ATU-80 (MC)

3357 NAA: USN Cutler? 0419 FAX 120/576 "Norfolk, Va" FAX (JD2)

3358 Unid: 0419 Piccolo 4 channels, all idle (JD2)

3360 RPN71: Kyev met. 2249 FAX 90/576 (HL)

3390 MGJ: RN Faslane,G 2135 RTTY 75bd Availability msgs (AB)

3393.7 USN Roosevelt roads 0634 RTTY 75/850 Continuous "qbf figs test" but no ID. Double line spacing. (DW)

3434.9 Royal Navy,G 2137 RTTY 100bd Fleet broadcasts (AB)
3516 GNI: Niton r. G 1907 ARQ tape (HL)
3542.7 GKE1: Portishead radio 0937 FEC N Atlantic weather. (DW)
3740.3 Unid: 1230 RTTY 50bd wx rpts from east russia (EW)
3832.7 MOD Paris,F 2144 ARQ-M2 200bd Idling (AB) RFFVA: FAF PARIS, F 0444 ARQ-M2 200/400 a: idle b: idle (SS)
3855 DDH3: Hamburg Met. 1900 Fax 120/576 Wx Chrts (HL)
3922.5 Unid: 0829 UTC ARQ-E 85.7 bd (NOT part of FDM) (JD2)
4002 YRR2: Bucharest Meteo,ROU 2122 RTTY 50bd Synops (AB)
4015.5 MARS-traffic PACTOR and J3E-test traffic with Croatia c/s AE... (QRM) later 2 MARSgram's
4017 SNN299: Polish MFA, Warsaw 2040 POL-ARQ 100bd/250 Economic bulletins in EE (MC)
4162 HWN: Navy Paris,F 1322 RTTY 75bd Test tape (AB)
HWN: French Navy, Paris 1929 RTTY 75/850 RYs and SGs (JD2)
4172.5 IBAR: M/V ARNO 2138 ARQ DIFMAR(AMVER) msg to IAR login 20842 IBAR
4173.5 WLVD: LURLINE 0720 ARQ W/QRG RPT (WT)
ELOW2: CHOYANG MOSCOW 0205 ARQ W/TLX, SAILED L.A., ETA SFO TOMORROW. (WT)
4175 ELRL9: Bornes 0340 ARQ AMVER msg. (AB2)
4177 ZDAR2: Barbara E. 0212 ARQ ETA Houston pilots, selcall 50381. (AB2)
V2IR: M/V Sylt 0459 USB w/tlx re ETA Houston, crew exchange. (RB)
3FQC3: M/T Eoss 0517 ARQ tanker, w/AMVER/PR, login 42176 EOSS. (RB)
WRGL: SS Trinity 1154 ARQ w/discharge report via WLO, login 11266 WRGL. (RB)
4178.5 KPFD: Arco Prudhoe Bay 0444 ARQ msg ck. (AB2)
KBCF: SS OVERSEAS CHICAGO 0409 ARQ W/TLX, LOGIN 11020 KBCF. (WT)
4180.5 ZDAR2: M/V BARBARA E. 0340 ARQ W/TLX, ARR HOUSTON, ETD 16TH. (WT)
4202.5 ULCL: T/H KUBA 0700 RTTY 50/170 msg in Eng for eta Eemshaven to UIW. (HOOD)
4205 UULR: T/H SERGEY GUSEV 2130 RTTY 50/170 admin from Km Selivyagshev to USU. (HOOD)
4211 GKE2: Portishead radio 0930 FEC N Atlantic wx. (DW) ZLA: 0933 ARQ w/CQ ID. (EW)
4214.5 Gothenberg Radio 1933 ARQ Selcalling TPCF (RC)
4232 FUF: FORT DE FRANCE, MRT 1021 RTTY 75/850 /RYs/SGs/10-count/de FUF (SS) FUF: FN Fort de France 0943 RTTY 75b CQ (EW)
4261 ZLO: Waiouru NZ 0155 75/200 Online Crypto RNZ Navy (AB3)
4262.3 ZLO: Waiouru NZ 0155 75/850 Online Crypto RNZ Navy (AB3)
4263.1 ZLO: Waiouru NZ 0155 CW CW Mkr - RNZ Navy (AB3)
4268 Gothenberg Radio 0002 ARQ selcalling OTFS (RC)
4271 FUJ: Noumea 0525 RTTY 75/850 RY Text Tx (AB3)
4271.5 CFH: Halifax Military, CAN 0100 RTTY 75/850 w/broadcast times & freqs. (RT2)
4300.5 KEJ: Hoolehua 1109 CW CQ (EW) KEJ: Globe Wireless, Kahalelani, Hi 0615 FEC w/station info, tfc list, also at 0715, on new channel (501). (RB)
4343 WLO: Mobile Radio, AL 1235 FEC w/tfc list. (RT2)
4346 NMC: CAMSPAC Point Reyes, Ca, US 0849 FAX 120/576 w/48 hr surface forecast chart w/NOAA ID, v.good chart. (RB)
4372.5 Unid F2Z: 0448 RTTY 50/850 w/several lines of RY's, SG's & W2M DE F2Z INT MSA MSC. (RB)
4446.7 Unid: 2005 FSK 108.9bd/170 UNID System, ACF=32 (QSX=5315.7kHz) (MC)
4489 GFL26: Bracknell MET 0857 RTTY 75/400 Met tfc then ID "cq de GFL 23/24/25/26". (DW)
4496 Unid: 0515 ARQ as if in xmit mode, but never sync'ed despite strong signal to 0615 & off. (RB)
4562.5 Guardia Civil 2123 ARQ 100bd/400 crypto (MC)
4570 HZN46: Jeddah Meteo,ARS 2113 RTTY 100bd Metars (AB)
4570.5 Unid: 2043 Piccolo-12, crypto (MC)
4583 DDK2: Hamburg MET 0845 RTTY 50/400 Marker "cq de DDK2/DDH7/DDK8 frequencies 4583 khz 7646 khz 11638khz & ry's. Wx in German. (DW)
4750 Spanish Police ? 1808 ARQ "de RETYMR" w/clear text messages about cars and people. (RC)
4752.5 RETYMA***: Guardia Civil, Albacete 2006 ARQ 100bd/170 Crime reports in SS to RETXX (Madrid) (MC)
4854 ICRC-Geneve ARQ Various messages. (JJ2)
4855.7 UNHCR PACTOR-U w/Sitreps in Chechenya and chatter. (JJ2)

4902 Unid: 1929 75/850 ACF 64 at start (JD2)
4930.5 SPW: Warsaw Radio,POL 2102 ARQ Tfc list (AB)
5055 JFY6: Amman Jordan 1621 RTTY 50/405 PETRA nx AA (AB3)
5082.3 RFLI: 1036 ARQ-E3 192/363 CdeV on C/I IRT (SS)
5083 DHJ51 Grengel Met 1759 RTTY 100/400 (GD2)
5097.4 CFH: Halifax Canada 0610 RTTY 75/850 NAWS bcst - listening on 2822/3287/4155/6236/8315/16561/22185 (AB3)
CFH: Halifax Military, CAN 0242 RTTY 75/850 w/NAWS marker. (RT2)
5100 Melbourne Meteo 1900 FAX w/charts. (HL)
5112.9 Unid: 1851 VFT 75bd/85 2ch UNID FSK System, async, cont, no ACF (MC)
5113.4 Unid RTTY 50Bd/170 duplex-net "W10 de I00", NATO procedures, in EE. (JJ2)
5127.2 7J***: 1833 FEC 100bd/170 Figures timestamped (UTC+1) in CBRS mode (MC)
5185 MKK: RAF London 0829 Piccolo wkg MUH (JD2)
5240 TZI213: Tanjug Belgrade 2122 RTTY 50/500 EE press. (DW)
5251 V5G***: Romanian MFA, Bucharest 2009 ROU-FEC 164.5bd/400 crypto (MC)
5315.7 Unid: 2019 FSK 108.9bd/170 UNID System, ACF=0 (MC)
5344.3 BMBX***: Combined Cadet Force, UK 2011 ARQ CCF Mailbox "de bmbx sk" clg 43A, 21A, 29D, 88A (MC)
5395 Unid: 0829 Piccolo 3 channels (JD2)
5432.8 Egyptian MFA, Cairo 0706 ARQ 100bd/85 constant selcal "QEMP" (MC)
5434 V5G***: Romanian MFA, Bucharest 2114 ROU-FEC 164.5bd/400 crypto (MC)
5462.8 Egyptian MFA, Cairo 0644 ARQ 100bd/85 Clg selcal "QEMP" (MC)
5472 Unid: Italian Navy,??? 1839 ARQ 100bd/850 UNID System, Regular bursts (QSY fm 6928kHz) (MC)
5714 Unid 1804 RTTY 100b French Simplex. Female & Male. 5LG's. (SM)
5720 RNZAF Data comms (crypto) see 5764 (AB3)
5731 Bucharest Meteo 2301 RTTY 50b Coded Wx for Rumanian stations (RC)
5752.5 Swiss E/MFA, loc? 1857 ARQ 100bd/170 5LGs (MC)
5773 MFA Warsaw? 1430 POL-ARQ (HL)
5773 HBD20/6 0943 ARQ Swiss MFA.(RC)
5773.2 HBD20/6: Swiss MFA, Berne 0733 ARQ 100bd/170 clg "BMRV" (Embassy Paris) then 5LGs to "parisfam" (MC)
5785 FIT13: Pref. Marseille 1436 ARQ-E3 2ch. Encr.tfc. (HL)
5807 DFZG***: Serbian MFA, Belgrade 0604 RTTY 75bd/400 crypto after "xjxjxjxjxj" (MC)
5813.6 EIAAYHYX***: Shannon Aeradio, Ireland 1729 RTTY 50bd/850 "ryryry... nnnn eiaayhyx" (MC)
5814 MKK: Royal Air Force, London 1722 VFT 6ch of 50bd/200 Baudot (DCN), "ryiryi test de mkk" (MC)
5850 OXT: Copenhagen Meteo, DNK 0045 FAX 120/576 w/last segment of "chart 2", v.good. (RB)
5860 Unid: 0600 ARQ-E3 96/425 idling. (RB)
5887.5 IMB32: Rome Meteo, Itlay 0121 RTTY in 50/850 AAXX wx synops. (RB)
5910 Unid: 1115 Piccolo 2 channels (JD2)
6263 LAKW2: Swan River 0219 ARQ AMVER msg, selcall 26557. (AB2) C6DZ8: M/V SOUTHERN STAR 0330 ARQ W/TLX, LOGIN 26447 SOUSTA. 9HQT2: SEARIDER 0540 ARQ W/TLX, 5254N 13315W ETA OSAKA. LOGIN 63332 RIDE. N/A: M/V WESTERN EAGLE 0410 ARQ W/TLX RE: VANCOUVER CARGO. C6DZ8: M/V SOUTHERN STAR 0550 ARQ CLG QSPV, SAB. LOGIN 26447 SOUSTAR. N/A: SONATA 1 (OR SOUTHERN STAR)?? 0245 ARQ W/TLX, LOGIN 26447 SOUSTAR, I GET DIFF NAME EACH TIME?? P3LZ5: M/V PACIFICATOR 0550 ARQ WKG SAB, MARITEX. LOGIN 29628 PACIFI. (WT)
6264 WLVD: SS Lurline 0325 ARQ Ro/Ro Container vsl, w/tlx re antenna down in storm in 40 kt winds, login 10987 WLVD. (AB2)+(RB) WLVD: LURLINE 1645 ARQ W/E-MAIL. WTST: SS LIHUE 0122 ARQ W/G-MAIL. LOGIN 11235 WTST. WSNB: SS KENAI 0143 ARQ W/TLX TO KEYSHIPCO. LOGIN 10738 WSNB. KNIJ: SS MANULANI 0711 ARQ W/QRG RPT. WSNB: SS KENAI 0450 ARQ W/TLX (WT)
6265.5 BOZK: Bin Cheng 0240 ARQ tfc. (AB2) UZLF: T/H SOVETSKIY VOIN 1627 ARQ crew TGs to UCE. (HOOD) C6JT2: M/V Myrtia 0654 ARQ (reefer) w/ BBXX wx obs. UJEA: TK General Tyulenev 0720 ARQ w/tlx to Novoship USA, 48 Hr ETA to Boston, login 54655 UJEA. P3HR2: M/V Belgrano 1459 ARQ w/tlx for ETA Miami pilot, login 56188 P3HR2. P3CF6: M/V Agia Thalassini I 1551 ARQ w/tlx re dischg of 35156 MT of cargo, login 23180 AGTH. (RB) ELNS4: MS PACIFIC STAR 0458 ARQ DEP MOIN, FOR TURBO PP -BANANA BOAT??. (refrigerated fruit carrier -LOGS) 6265.5 UNID:

ALBEMARLE ISLAND 0236 ARQ W/TLX SAILED MIAMI, ETA BALBOA. LOGIN 27614 ALBE. N/A: UNID 0132 ARQ I'VE GOT THIS LOGIN (46276 UMERC) MANY TIMES BUT CAN'T ID. LAMU4: MS MONARCH OF THE SEAS 0233 ARQ RX ONLY. CRYS: M/T INAGO 0318 ARQ W/AMVER LOGIN 51860 CRYS. (WT)
6266 LNVP3: SONG OF NORWAY 0300 ARQ W/AMVER/SP LOGIN 32407 LNVP3. (WT)
6267 UFSS: Artem 0235 ARQ tlx to Druzhba, Yokohama for needed parts, selcall 55951. (AB2) OWWW2: M/V Arktis Ocean 0528 ARQ w/tlx to Elite Shipping re crew matters. (RB) UFSS: M/V ARTEM 0235 ARQ W/MSG TO UBE2 ? (WT)
6267.5 KRGC: Francis Hammer 0553 ARQ Catamaran tug, w/BBXX wx obs, login 11117 KRGC. UYVP: TKH Ivan Korobtsov 0924 ARQ Ukrainian general cargo vsl, w/posn tlx (4046N/0615W) to General Steamship. (RB) ELGH2: M/V DOLE CALIFORNIA 0314 ARQ AMVER/SP, L.A. TO GUAYAQUIL. LOGIN 24741 ELGH. YJWZ7: M/V NELVANA 0615 ARQ WKG WLO, RX ONLY, LOGIN 52258 NELV. (WT)
6269 DUCT: EURASIAN CHARM 0613 ARQ W/TLX, LOGIN 76768 DUCT. N/A: UNID 0610 ARQ W/BBXX, LOGIN 24423 ELRR. (WT) (probably ELRR5 M/S Legend of the Sea's, one of Royal Caribbean Cruise Lines new 1800 passenger cruiseships -LOGS)
6269.5 TCMC: M/T PAZAR 0653 ARQ eta Brest login 65724 TCMC. (HOOD)
6270 UVLQ: M/V MARSHAL ZHUKOV 0225 ARQ WKG WLO W/TLX, LOGIN 54839 UVLQ. (WT)
6270.5 SXZE: M/V El Flamenco 0317 ARQ w/sailing report tlx, login 16730 SXZE. (RB)
6271 LXCI: LPG/C GENT??? 0214 ARQ RX ONLY, LOGIN 36256 LXCI. (WT)
6272 9HLQ3: MV ELINKA 1950 ARQ msg to Piraeus via SVB login 29329 LINK (ITU gives name as "LINK" but not correct). (HOOD) N/A: M/V Continental Beta 0649 ARQ Dry Cargo vsl, w/tlx re stowaway & having an immigration guard taken on board at Sweden to Spain. (RB)
6272.5 WSNB: SS KENAI 0605 ARQ W/TFC. (WT)
6273 ELFO3: M/V Rhine Forest 0803 ARQ w/msg ck. (RB) C6SX: M/V BLACK SEA 0307 ARQ RX ONLY, LOGIN 70066 C6SX. (WT)
6273.5 WEHV: SS OVERSEAS ALASKA 0420 ARQ AMVER TFC, LOGIN 11084 WEHV. VVJY: M/V LOK PREM 0524 ARQ RX ONLY, LOGIN 23698 VVJY. (WT)
6274 YLAO: TH Mikhails Lomonosovs 0333 ARQ w/posn report to Riga Radio. YLBB: MK Vasiliys Struve 0532 ARQ w/tlx to Riga Superintendent of repairs needed upon arrival Riga on Riga frq 00306 (Ch.3 of 6Mhz) from master, login 60631 YLBB. (RB)
6274.5 ELGF3: M/V EWL ROTTERDAM 0454 ARQ W/TLX, LOGIN 24985 EWLRDA. (WT)
6275 WTST: SS LIHUE 0620 ARQ W/QRG RPT, ID 021F. LOGIN 11235 WTST. (WT)
6277.5 9HRE3: T/H DANUBE EXPRESS 1748 CW msg to Izmail USO5. (HOOD)
6281 KNCX: SS CHELSEA 0140 ARQ WKG WNU W/QRG RPT, ID 0201. LOGIN 10725 KNCX. (WT)
6282.5 ELRL9: M/V Bornes 0428 ARQ oil tanker, w/tlx in unid lang, login 24915 BORN (RB)+(WT)
6305 UUGS: NOKUYEV 0824 RTTY 170/50 admin msg from Km Rylov to UDK2 Hull No is MB-0127. (HOOD)
6310.5 ELRA3: STARLETTE 1 0835 RTTY 170/50 crew TGs and admin from Km Omelehenko to UIW after CW contact on 8MHz. (HOOD)
6311 UIYT: MB-2415 0830 RTTY 170/50 admin from Km Karakatenko to UDK2. ITU lists as VYSHGOROD. H9AN: MV PANAREA 1 1713 ARQ to GKE login 42108 H9AN. (HOOD)
6312.5 9HAT4: M/V PAYARORORO 0618 ARQ W/TLX IN ?? (WT)
6315 GKE3: Portishead radio 0938 FEC N Atlantic weather forecast. (DW) UFN: Novorossiysk r. RUS 2125 ARQ tape (HL)
6325.5 WLO: Mobile Radio, AL 0100 FEC w/wx. (RT2)
6326 KEJ: Globe Wireless, Hoolehue, Hi 1233 FEC w/tfc list. (RT2)
6327 UAT: Moscow r. RUS 2140 ARQ msgs (HL)
6340.5 NMF: USCG Boston, Ma 2247 FAX 120/576 w/chart. (RT2)
6348.5 HWN: Paris F 2333 RTTY 75/850 w/RY's & SG's, DE HWN. (RT2)
6385 FUO: FN TOULON, F 0031 RTTY 75/550 vvv rys sgs (SS)
6416 WLO: Mobile Radio, AL 1710 ARQ w/CW ID. (RT2) WLO: MOBILE R AL, USA 0851 FEC tfc list (SS)
6434.4 Royal Navy,G 1509 RTTY 100bd Fleet broadcasts (AB)
6462 FUM: FF Tahiti 1237 RTTY 75b RY (EW)
6496.4 CFH: Halifax NS CAN 2100 RTTY 75/485 WX 2130 FAX 120/576 Chrts (HL) CFH: CF Halifax 2210 FAX 120/576 Ice chart. CFH: CF Halifax 2225 RTTY 75/800 Met traffic. Forecast for Halifax harbour. (DW) CFH: Halifax

Canada 0951 RTTY 75/850 Canadian Forces Wx (TAF) (AB3)
6741 Tunis Navy ? 1900 ARQ Selcaling XKTQ & broken messages. (RC)
6741.7 PLM Tunisia 0017 ARQ 100/170 "secret" msg., Tunisian Navy. (ED)
6779.3 German Navy, loc?? 0717 VFT 3ch of 150bd/170 FSK UNID System (spaced 0/700/1400) (MC)
6817 UNID: VFT 1110 encrypted HOKA reports CROWD36 (HL)
6820 V5G***: Romanian MFA, Bucharest 1817 ROU-FEC 164.5bd/400 crypto (MC)
6821 TBJD Turkish Navy 2343 RTTY 75/850 ry's and test test test (ED) MFA Bucharest? 1355 Rou Fec 218/400 (GD2)
6822 UNID: ROU-FEC 1250 Encr.msg. (HL)
6834 UNID: 0011 ARQ-E 72/350 idle (SS)
6836.7 Unid 1028 ARQ-E3 200/400 broken ff msg. (ED)
6844 SNN299: Polish MFA, Warsaw 1943 POL-ARQ 100bd/200 5LGS and Claris MSGs to Baghdad (MC)
6881.6 Unid: 1807 FSK 109bd/170 UNID System (MC)
6882.7 DACCA METEO? 1402 RTTY 50b gives wx rpts for b.desh. header is VGEG (EW)
6900.7 Egyptian MFA, Cairo 2027 ARQ 100bd/170 ATU-80 from London "XBVY" & Washington "RCVB" (MC)
6901.8 RFTJ: FF DAKAR 0704 ARQ-E3 192 idle (EW)
6918.5 Madrid 0137 FAX 120/576 very good Atlantic chart (DM2)
6950 Unid: 0917 RTTY 75b wx rpts from unk loc in China (EW)
6972 YOG59: Bucharest Romania 1637 RTTY 50/507 Rompres Nx FF (AB3) YOG59: Rompres Bucharest 1622 RTTY 50/500 Start up sequence "qra YOG59 - frequency 6.972 kcs /rompres/ - Bucarest" 1A's and YR's. 1627 end of transmission (FF) msg. Marker till 1642, bk, marker till 1651. EE press. (DW)
6974.8 Unid 0321 RTTY 50/400 Unid meteo station. (ED)
6976 RFFHCA: FF Ajaccio F 1845 ARQ-E/192 idle (HL)
6978.7 RFTJF: French Forces, Port Bouet, Ivory Coast 0235 ARQ-E in 48/425 idling. (RB)
7309.7 RFLIG: FF Cayenne, GUF 0550 ARQ-E3 100/425 idling. (RB)
7318 SUU3: Cairo, EGY Meteo 1700 RTTY 100/850 w/synoptic wx (1 Khz higher than published freq). (JD2)
7345 Unid: 2235 ARQ (RC)
7398 USAF AWS OM.NE. 0410 FAX 120/576 w/fair signal (DW3)
7564.5 TIX75: INA Baghdad 1820 RTTY 50/400 Arabic press. tb& = INA. (DW)
7564.5 Unid: 1445 RTTY 50b nx in Arabic (EW)
7565 YIX75: Baghdad Iraq 1942 RTTY 50/403 INA Nx AA (AB3)
7586 RFVI: FF Dzaoudzi MYT 2210 ARQ-E /192 idle (HL)
7586.3 RFVITT: French Forces, Dzaoudzi 1315 ARQ-E3 96/442 w/5LG's. (RT2)
7592 YZD6: TANJUG Belgrade 1545 RTTY 50/400 w/FF nx. (RT2)
7614 RFFH: FF Marseille F 2220 ARQ-E/92 idle (HL)
7616.7 Egyptian MFA, Cairo 1609 ARQ MSGs "fm khargia cairo" (MC)
7625 HZN: Jeddah met 2030 RTTY 100/800 Wx.(HL) HZN47: Jeddah Meteo, ARS 2355 RTTY 100/425 w/meteo reports. (RB)
7644.9 Unid: 1127 ARQ-E 72b IDLE (EW)
7646 DDH7: Hamburg MET 0852 RTTY 50/400 Wx forecast in German. (DW)
7648.5 Unid 0154 FEC 109.5/340 5lg's, Sp. Msg., Cuba? (ED)
7658 Tanjung News 1000 RTTY 50/850 brdcst from TANJUNG RYs + TANJUL BEOGRAD YZI-223/7.658 KHZ, YZI-233/11.604 KHZ, YZI-234/12.212,5 KHZ, YZI-235/13.440 KHZ (CK) YZD: Tanjug Belgrade 2142 nx RTTY LSB 50/425 (HL)
7677 HBD20/6: Swiss MFA, Berne 1839 ARQ 5LGs ending "+? hbd20/6", also at 0627 ARQ w/5LGs ending "hbd 20/4" (MC)
7678.5 HBD20/2: Swiss MFA, Berne 1830 ARQ 5LGs ending "hbd20/2 +?" (MC)
7680 GXQ: RN Forest Moor, UK 1135 FDM wkg MKD. (JD2)
7685 RBV75: Moscow met. 1412 RTTY 50/980 WX (HL)
7704 MKD: RAF Akrotiri, Cyprus 1918 B7B(DCN) wkg MKK (JD2)
7705.7 RFTJ: FF DAKAR 0748 ARQ-E3 192 idle (EW)
7706 Unid: 1800 RTTY 75/850 Nato Encrypted (GD2)
7710 MKK: RAF Bampton, UK 1140 FDM wkg MKD. (JD2)
7716 UNID: TT2300B 8-tone sign. 2001 (moved frm 7722) (HL)
7719.9 Unid: 1057 ARQ-E 72b idle (EW)
7722 UNID: Uses TT2300B 8-tone 200 Hz spacing signal see digifaq 3.0 (can't decode it). Lots of traffic! (HL)
7732.2 Unid: 0925 ARQ idled for 5 min then off no id (EW)
7746.7 Egyptian R, Rome 1900 ARQ 5LGS & ATU-80 MSGs from Rome (fljk) to

Cairo (MC)
7755.2 RFQP: French Forces, Djibouti 2350 ARQ-M2 200/425 idling. (RB)
7763.7 D6Z: Asecna Moroni 1225 ARQ-E3 48b idle (EW)
7770 Unid: 1400 81-81 41/500 Unid CIS 81-81 (GD2)
7784 AFB: Elkhorn 2210 RTTY 75/850 wx (HL) AFS: Offutt (Elk Horn), Ne 2100 RTTY 75/850 w/KAWN Metars for U.S. airfields (8-bit baudot, two-bit 'stop' element) //13835. (JD2) USAF Meteo Puerto Rico 2300 RTTY 75/182 Aviation Weather for US & South American stations (RC) NRR: Roosevelt Roads, PR 1848 RTTY 75/850 AWS/USAF wx. (RT2) (although sending KAWN USAF data, this is suppose to be a USN xmitter at Roosevelt Roads, PR -LOGS)
7808 DFZG: Belgrade 1730 RTTY 75/400 MFA (GD2) DFZG***: Serbian MFA, Belgrade 0615 RTTY 75bd/400 "dfzg dfzg dfzg qtc ryry..." then crypto (MC)
7820 V5G***: Romanian MFA, Bucharest 1615 ROU-FEC 164.5bd/400 crypto (MC)
7822.3 RFFA: MOD PARIS, F 0548 ARQ-E3 200/340 idle (SS) 2346 ARQ-E3 200/425, idling. (RB)
7831.3 Unid: 2342 ARQ-E3 48/425 idling. (RB)
7842.4 CNM20.1X: MAP Rabat 1017 RTTY 50/400 FF press. (DW)
7845.7 Egyptian Embassy, Riyahd 2101 ARQ ATU-80 MSGs to MFA Cairo (MC)
Egyptian Embassy, Bahrain 2100 ARQ ATU-80 MSGs to MFA Cairo (MC)
7870 NRR: Roosevelt Roads, PR 0105 FAX 120/576 w/chart. (RT2)
7895 SPW: Warsaw r. POL 1850 POL-ARQ msg (HL)
7898 Unid 0040 ARQ-E 72/85 idle (logged as Bonn [MOI] in ENL newsletter). (ED) MOD GERMANY, IFOR 0704 ARQ-E 72 idle 85HZ shift (EW)
RFLI: Mauritious 1815 ARQ-E 72/170 Idling (GD2)
7915 PIAB Bonn 1515 FEC-A 96/425 w/nx in GG. (PT)
7916 DGG91L2: PIAB Bonn 0540 FEC-A 96/400 Start up sequence "qra de DGG91L2 auf 7916 khz" and ry's. No schedule. German press. (DW)
PIAB Singapore 0722 FEC-A 96 news in G (EW)
7945.8 RFVI: French Forces, Le Port Reunion Isl 2335 ARQ-E3 96/425 idling, should be circuit "ITT". (RB)
RFVI: FF Le Port REU 2220 ARQ-E/92 idle 2028 msg (HL)
RFFVI***: French Forces, La Reunion 1642 ARQ-E 96bd/400 5LGs "de rffvibds" (MC)
7946.5 DHJ51: Grengel Meteo 0648 RTTY 100 wx rpts for Europe (EW)
7949.7 Unid: 1017 ARQ poor sig. (EW)
7954 Unid: 1018 VFT 75 all encrypted channels very strong signal (EW)
7959 9BC23: Tehran Iran 2001 RTTY 50/350 Nx EE (AB3)
9BC23: Tehran 1840 RTTY 50/400 IRNA EE Press (GD2)
9BC: IRNA Teheran IRN 1845 RTTY nx Ar. (HL)
7961.7 Unid: Philippine Military 1001 ARQ EE Mil tfc "de Liberator" (AB3)
7975 SPW: Warsaw radio 1405 FEC Polish ship press. (DW)
SPW: Warsaw 1900 ARQ Polish text (GD2)
7983.5 RFLI: French Army, Forte De France 0120 ARQ-E3 48/340 Circuit [TJF]. "Controle De Voie". (PS)
7983.8 RFTJ: FF DAKAR 0724 ARQ-E3 96 CdeV (EW)
7987.9 RFHJ: FF TAHITI 0956 ARQ-M2 128.5 wx msgs to RFHMMGO (Muroroa atoll) (EW)
8002 RFTJ: French Navy, Dakar Senegal 1014 ARQ-E3 96/340 Circuit [HJL]. Traffic for/via `RFLI', Fort De France, MRT. (PS)
8020 HMF85: KCNA News, Pyongyang 1757 RTTY 50bd/250 "ryry qra de hmf52/hmf85 freq 11476/8020 kcna" (MC)
HMF85: KCNA Pyongyang, N.KRE 1340 RTTY 50/850 w/nx. (RT2)
8022 Unid: Romanian? 1519 ROU-FEC 218.3bd/400 crypto (MC)
8026 MFA Buchrest ROU 1854 ROU-FEC encr.msg (HL)
8028 SNG202: Polish MFA,Warsaw 0731 RTTY 100bd/500 repeated "ryry... sng-202 sng-202 sng-202 ryry.." (MC)
Unid: 1300 ROU-FEC 164.4b (RC)
8040 SAM 518: 2350 USB heard clg Andy + vice versa but no contact. So they try F211 (11056) later on 11056 Radio checks again - but only Andy heard. (PR)
8045.5 GYU: Royal Navy, Gibraltar 0717 VFT: 2ch of Piccolo-6, engineering ch. "lololo de gyu test test test" (MC)
8045.9 GYU: Royal Navy, Gibraltar 0717 VFT: 2ch of Piccolo-6, crypto tfc (MC)
8050.2 RFQP: French Forces, Djibouti 2306 ARQ-M2 200/425 idling. (RB)
8067 Unid: Russian Diplo 1558 CROWD-36 (MC)

8080 Norfolk UTC? FAX 120/576 always strong here (DM2) (see next log for corrected ID -LOGS) NAA: USN Cutler, Ma 1145 FAX 120/576 w/300MB temp chart. (RT2)
8080.5 EAE220: Spanish MFA, Madrid 0739 TWINPLEX 100bd/140 (200/85), crypto + opchat in SS to "TQQV/X" (MC)
8088 Unid: Russian?? 0631 81-81 81bd/250 tfc (MC)
8088.5 GYU: Royal Navy, Gibraltar 0713 VFT: 2ch of Piccolo-6, eng. ch "lololo de gyu de gyu" (MC)
8088.9 GYU: Royal Navy, Gibraltar 0714 VFT: 2ch of Piccolo-6, traffic ch idle (MC)
8097 Unid: German Diplo? 0656 MERLIN 228.7bd/170 tfc (MC)
8099 Unid: Russian Diplo 1835 CROWD-36 (MC)
8106.7 Egyptian MFA, Cairo 1931 ARQ clg selcal "XBVQ" (Embassy Paris) (MC)
8107.7 RFQP: French Forces, Djibouti 2309 ARQ-M2 200/425 idling. (RB)
8110 GXQ: RN London 1420 8 channel interleaved DCN vft on USB. (DW)
8111.9 GXQ: RN LONDON 1421 RTTY 50/340 8111.955. Chan 5 in VFT. "qbf figs test de GXQ" and RYI's. (DW)
8135 Unid: German Diplo? 0716 MERLIN 240.1bd 8 tone MERLIN (MC)
8137.5 Lusaka, Zambia 0400 RTTY 50/425 airport traffic & meteo. (MS4)
8148 Unid: 1723 POL-ARQ Diplo messages to Brussels (JD2)
8148 SNN299: Polish MFA, Warsaw 0658 RTTY 75bd/250 "cq1 cq1 cq1 snn299 warszawa" and embassy QTC list (MC)
8151.7 Egyptian MFA, Cairo 1810 ARQ 100bd/170 ATU-80 to Embassy Rome (fljk) (MC)
8152 HMF86: KCNA Pyongyang, N.KRE 1210 RTTY 50/850 w/FF nx. (RT2)
8153.6 Unid: 0747 FSK 108.9bd/170 UNID System, ACF=32 (MC)
8166.7 Egyptian MFA, Cairo 1638 ARQ 100bd/170 ATU-80 MSGs to embassy Kuwait (kdwlsh) (MC)
8176.5 RETWBB***: Guardia Civil, Barcelona 2001 ARQ 100bd/400 MSGs in SS to RETxx stations (selcal TWBB) (MC)
8182.6 UN/ICRC, Bosnia 0725 PACTOR-I 200bd/200 txt in FF mentioning "Split, Bosnie" (MC)
8216.7 LY: 0820 ARQ look like SS text don't know who this is. (EW)
8239.8 Unid: Egyptian Embassy? 2325 ARQ 100/425 idling after sending unk selcall & off. (RB)
8346 RFHI Noumea New Caledonia 0115 ARQ-E3 100/400 Idles/Controle de Voie to Fort de France (AB3)
8377 FUF: FN Fort de France MRT 2148 RTTY 75/850 test (HL)
8377 HJNF: MV DINAMARCA 0806 ARQ to GKE login 24105 HJNF. This call is listed in ITU as SIMON BOLIVAR. P3GX2: M/V LAODIKI 2 1710 ARQ posn rpt (ex Bon Luck ??). J8ED6: T/H KOLKHIDA 1750 ARQ admin from Km Aroshidze to Batumi via GKB login 23302 J8ED6. (HOOD) C6IX7: M/V Louis 2155 ARQ w/EE tlx to Electronique Generale re repaired ELT, ex-Hibiscus? 9HNG3: M/V Konavle 2203 ARQ bulk carrier, w/login for msgs, login 13647 CCAR. (RB)
8377.5 WXBZ: Potomic Trader 0008 ARQ vsl status report, selcall 11180. (AB2) WBWK: M/V Moku Pahu 0440 ARQ w/system QRG tlx & e-mail tlx to EML re sitor problem, login 10750 WBWK. UYSJ: TKH Guiseppe Di Vittorio 2245 ARQ Ukrainian flagged cargo vsl, w/selcal KCPX (Odessa Radio) & admin TG's from master, KM Roslov, note c/s is not USYJ, logged in several times tonight, login 67716 UYSJ. ENWY: TKH Kompozitor Rakhmaninov 2305 ARQ Ukrainian flagged Ro/Ro cargo vsl, w/crew TG's to Odessa Radio after sending selcal KCPX. (RB) WSLH: SS MAUI 0626 ARQ RX ONLY, LOGIN 10724 WSLH. 3EQL8: M/V FOREST WAVE 1845 ARQ OPR MODE. WHRN: M/V MAHIMAHI 0156 ARQ W/QRG RPT, ID 0284. LOGIN 11166 WHRN. UUDP: KAZARHSTAN-2 0321 ARQ WKG UUI, ODESSA. LOGIN 67764 UUDP. KRJG: PRESIDENT EISENHOWER 0514 ARQ W/E-MAIL, (INTERNET). LOGIN 11596 KRJG. WSRH: SS KAUAI 2244 ARQ TFC CHK QRU. WTST: SS LIHUE 2305 ARQ W/TLX, LOGIN 11235 WTST. KNIJ: SS MANULANI 1752 ARQ W/E-MAIL. LOGIN 10918 KNIJ. WFDW: KEYSTONE RHODE ISLAND 2332 ARQ W/QRG RPT. KNIJ: SS MANULANI 2343 ARQ TFC CHK, QRU. UWCC: M/V SERGAY LAZO 0136 ARQ CLG KCPX, UUI ODESSA, LOGIN 67970 UWCC. ENWU: TH ROMAN KARMEN 0333 ARQ WKG UUI, ODESSA W/LOTSA MSGS. LOGIN 64799 ENWU.
8378 C6DC: M/S Costa Playa 0331 ARQ Costa Cruise Lines cruiseship, w/tlx in Italian. (RB)
8379 C6JO8: Perseus 0232 ARQ outbound from Cristobal, ETA for New Haven, UK, selcall 61303. LXAM: Antwerpen 1506 ARQ direct tlx tfc, selcall 36266. SQAT: Kuznica 0133 ARQ tfc via SPB in PP. SWHI: Dion 0156 ARQ

tfc for Tsakos Hellas in Greek. 3EIK8: Atlantic Star 0204 ARQ tfc for Tokyo, selcall 42715. OXIG6: Philomena Purcell 1257 ARQ tfc. (AB2) C6JO8: M/V Perseus 0532 ARQ w/tlx re ETA New Haven, login 61303 C6JO8. (RB)+(WT) 3FYE3: MSC DOMINIQUE 0041 ARQ W/TLX, ETD MIAMI. LOGIN 42181 3FYE3. ELIG7: M/V INDIAN OCEAN 0454 ARQ WX OBS BBXX LOGIN 24750 INDO. DVRD: GENERAL TIRONA 0317 ARQ W/TLX, 4NM W OF BAJA, N OF BORDER, ENRT PHILLIPINES. SXZE: M/V EL FLAMENCO 0453 ARQ WKG WLO, TLX ETA CRISTOBAL, LOGIN 16730 SXZE. (WT)

8379.5 3FMN4: Energy Prosperity 1427 ARQ AMVER msg. WTEA: NOAAS Discoverer 2327 ARQ noon posn report via NOJ. (AB2) PPWG: M/V Nacional Saos 0343 ARQ wkg PPR w/SS tlx, login 02000 NACSA. (RB) WLBK: Lawrence H. GIANELLA 1725 ARQ W/MOVREP (WT)

8380 UVMH: Mekhanik Bardetskiy 0223 ARQ ETA Fort de France, selcall 67884. 3BJF: Bel Azur 0248 ARQ tfc for Navemar, Tampico for charts, vsl bound for Altamira, selcall 02754. (AB2) YJZT8: M/V Golden Sun 0238 ARQ w/tlx re ETA. (RB)

8380.5 3FVY4: MSC Federica 0142 ARQ tfc for Geneva & Sorrento, selcall 42014. (AB2) CCLY: PFG Lynch (F-07) 0305 ARQ Chilean Navy British Leander-class frigate, wkg CBV, Valparaiso Radio, Chile, w/req for msg traffic, login 19017 CCLY. C6MM3: M/V Sevilla Carrier 0426 ARQ w/SISNAV/SP (AMVER) tlx, loc at Valparaiso, login 27687 SEVL. ELOF4: M/V Bruce Smart 0445 ARQ w/tlx tfc. (RB) 3EAW7: M/V PACIFIC RIDER 0150 ARQ W/TLX, LOGIN 42593 3EAW7. (WT)

8381 OXBM6: Fetish 0307 ARQ tfc. (AB2) 5QUV: MV FAROENAV 1022 ARQ wkg OXZ login 08390 5QUV. (HOOD) ZCUX: M/V Repulse Bay 0245 ARQ w/tlx for ETA Port Cali, login 48696 ZCUX. 3EIK8: M/V Atlantic Star 1226 ARQ w/tlx to Star Reefer London, login 42715 ASTR. (RB) OXBM6: M/V FETISH 0624 ARQ W/OBS,BBXX. ELOE9: M/V DSR ROSTOCK 0005 ARQ W/TLX, LOGIN 24408 ELOE9. (WT)

8381.5 UYPO: Stepan Krasheninnikov 1456 ARQ tlx to Hyundai Logistics, Busan re ETA Busan, selcall 55105. (AB2) YLBO: M/T DIZHOUS RIDS 0613 ARQ w/tlx, 2547S 07426W (WT)

8382 WNRD: Mokihana 1336 ARQ AMVER msg. (AB2) ESDX: M/V VILSANDI 1658 ARQ posn rpt to ESA. ESAC: M/L SOODLA 1600 ARQ posn rpt to ESA. (HOOD)

8382.5 UTXJ: TH Vera Khoruzhaya 2236 ARQ w/crew TG's to Mariopol Radio. (RB) ATPN: M/V HARGOBIND 0240 ARQ W/AMVER/PR, Login 23590 HRGD. P3UQ2: M/V PTOLEMEOS 0445 ARQ W/LONG TLX LOGIN 00536 P3UQ2. N/A: OMI COLUMBIA 0351 ARQ W/TLX, ETA EL SEGUNDO. (WT)

8383 UTEW: Swobodnyj 1328 ARQ crew TG's. (AB2) P3BS2: M/V Heron 0126 ARQ w/tlx in unk lang via SVU. C6IP3: M/S Meridian 0330 ARQ w/on-line req, "QRU for C6IP3", & tfc in unid lang. SZMK: M/V Chios Beauty 2316 ARQ Greek bulk carrier, wkg SVU for tfc QRU. (RB) USYD: TK USINSK 0703 ARQ W/TG'S. UOUN: TH VLADIMIR ARSENEV 0616 ARQ W/TG'S. SZPA: MAASSLOT L 0335 ARQ W/1 MSG, (QTC 1), IN ?? LOGIN 16953 SZPA. (WT) UTHZ: Antares 1250 ARQ crew TG's. UJZX: Khasan 1409 ARQ crew TG's. (AB2)

8383.5 UERK: ro-ro ferry SAKHALIN 8 1720 ARQ cargo details for arrival Travemunde login 55754 UERK. ESAY: MV ABRUKA 1019 ARQ login 66131 ESAY. ESDZ: MV FRISOHAVEN 1024 ARQ QSO with operator at ESA login 56762 ESDZ. (HOOD)

8384 6ZOW: M/V Allalinhorn 0350 ARQ Liberian bulk carrier, w/"Peru Shiprep" (AMVER). (RB) 3EZX8: M/T AMAZONIA 0137 ARQ W/TLX, LOGIN 26979 AMAZON. (WT)

8384.5 P3XV6: Frines 0331 ARQ AMVER msg. P3AE4: Angela Green 0256 ARQ tfc for Rotterdam, selcall 26854, ex-Krasnogrsk? (AB2) UWKX: M/T Kapitan Ostashevskiy 0725 ARQ w/arrival/passage report tlx for Guayanilla, login 54969 UWKX. (RB) 9HNQ3: MB PETKA 0408 ARQ W/TLX, LOGIN 56806 PETK. (WT)

8385 WUQL: Ocerseas Joyce 0017 ARQ msg, selcall 11832. (AB2)

8385.5 WLVD: LURLINE 0500 ARQ W/E-MAIL. WEZM: SS EWA 0343 ARQ WKG WNU, W/E-MAIL. DEPT SAN PEDRO. (WT)

8386 NAMW: USNS Algol 0222 ARQ tfc via NMC. (AB2) C6KV3: Canterbury Star 0639 ARQ w/BBXX wx obs tlx, login 61384 CTBS. (RB) 4XGU: ZIM KOREA 0145 ARQ W/AMVER, PANAMA CANAL TO L.A. LOGIN 50584 4XGU. (WT) WJBG: Overseas Ohio 0317 ARQ tlxs to Cleveland & Honolulu, selcall 10710. 9VOK: Maritime Mosaic 0310 ARQ AMVER/PR, 39.35N/146.52W, reduced speed due to wx. (AB2)

8386.5 C6FT: Norasia Malacca 1349 ARQ login by c/s & selcall 41575. EQPS:

Iran Jamal 1417 ARQ admin tlx to M/S Singapore. EQPZ: Iran Mufteh 1355 ARQ admin tlx voyage 7-0213, selcall 59241. (AB2) P3CF6: M/V AGIA THALASINI I 0238 ARQ W/TLX TO PACNAV MEXICO. (WT)
8387 UNID m/v "Omerto" 1304 ARQ to topoil Gotenb. msg (HL) DUAP: Calatagen 0456 ARQ w/AMVER/FR, for Punta Arenas. (RB) ATPN: M/V HARGOBIND 0251 ARQ W/AMVER/PR, 0545S 10438W ETA SALBOA. VVML: M/V LOK PRATAP 0550 ARQ W/TLX, ETA COLUMBIA RIVER P/S. DUCT: EURASIAN CHARM 0110 ARQ W/TLX TO KLINE TOKYO. VIA KPH. SUCD: M/V ALWADI AL GADEED 0222 ARQ W/TLX, LOGIN 78001 SUCD. (WT)
8387.5 SQRC: Moniuszko 1510 ARQ tlx tfc for Gdynia in Polish. (AB2) 3FAL6: Crown Emerald 0057 ARQ w/OPR chat re charges for a R/T call. (RB)
8388.5 C6JO7: Pelagos 1359 ARQ tfc for Yica Freight Services, Maputo. H9UM: Arcadia 0209 ARQ lengthly vsl status rpt & ETA's for Kingstown, Georgetown, selcall 26524. (AB2)
8389.5 N/A: FALSTAFF J. DUCZNSKI 0608 ARQ W/BBXX. J. = JANNE. LOGIN 26366 FALSTA. ELCO5: M/T CHEVRON PACIFIC 0533 ARQ W/BBXX, LOGIN 636007328 PAC. (WT)
8390 J8GY4: Western Falcon 0314 ARQ tlx for LA & Singapore, selcall 26352 "RAYNS", ex-Spraynes? (AB2) m/v Pazar (kpt Katlav) 2119 ARQ tlx.(HL) DJSY: M/S Anne Catharina 0221 ARQ w/tlx in GG login 26575 DJSY. (RB) SWKM: M/V COMMANDER 0023 ARQ WKG SAB, W/TLX TO SEA JUSTICE S.A., PIRAEUS. LOGIN 26550 COMA. 6ZXJ: M/V BRAZILIAN SKY 0300 ARQ W/TLX, WEEKLY MAINT RPT. LOGIN 26423 BRASKY. J8EX5: M/V RACISCE 0522 ARQ W/URGENT TLX RE GENERATOR PROBLEMS. LOGIN 26545 RACISC. (WT)
8390.5 DVHN: M/V Evelyn 0122 ARQ w/tlx via WLO re locations of accommodations ladders on vsl, login 76753 DVHN. PJCH: M/S Nieuw Amsterdam 0613 ARQ w/BBXX wx obs, 33,930 DWT Holland-American Lines cruiseship. (RB)
8391 KDBG: Manoa 0302 ARQ tfc, ex-President Lincoln, selcall 11165. (AB2) WHRN: M/V Mahimahi 0408 ARQ U.S. flagged container ship, w/'system QRG' tlx. (RB) WLVD: LURLINE 0159 ARQ W/FAX-MAIL VIA KEJ (GLOBE). LOGIN 10987 WLVD (WT)
8391.5 UHCK: Kapitan Glazachev 0305 ARQ crew TG's. (AB2) YLBX: MV AKADEMIKIS HOHLOVS 0830 ARQ OBS msg vsl bnd Costa Rica. (HOOD) ESBX: TKH Pikhtla 0301 ARQ w/selcall KYVX, Moscow Radio, then w/TLNMNA TG's to Tallinn Radio, including DISP-2 report from master KM Retskalov. (RB)
8392 SZSE: Leni 0222 ARQ tfc for Athens. (AB2) YLBS: T/K POLS ROBSONS 1802 ARQ crew TGs to YLQ. (HOOD)
8392.5 ELNX9: Tromsco Fidelity 0321 ARQ ETA for unid port, selcall 24906. UZSE: Adygeya 0219 ARQ crew TG's. UICJ: Pobyeda 0333 ARQ tfc, selcall 54834. (AB2) UMDL: T/K KUZBASS 1820 ARQ crew TGs to UFN. (HOOD) 9HMJ3: TK Novomir-2 0148 ARQ flagged-out Russian tanker w/login for msgs from Novorossiysk Radio. URUS: TK Boris Butoma 0208 ARQ Ukrainian 63,180 DWT tanker, w/crew TG's home. P3OF4: TK Ostankino 0235 ARQ tanker, w/NVRTLG+ crew TG's to UGW (NVR/MMF), login 24442 KINO. USQS: TK Burgas 0243 ARQ Ukrainian tanker w/NVRTLG tfc to Novorossiysk Radio (NVR/MMF) from master, KM Zhivago. EWDT: TKH Khudozhnik Moor 0306 ARQ w/crew TG's to Novorossiysk Radio. 9HKG4: MKH Mekhanik Khelhvskiy 2305 ARQ general cargo vsl, w/login 24265 9HKG4 after sending selcall KYXX (Novorossiysk Radio), app is the Ex-UWLC. UVLQ: TKH Marshal Zhukov 2316 ARQ w/DISP-1 report from master KM Grienk. URBP: TK Adygeya 2328 ARQ 51,295 DWT Ukrainian tanker, w/DISP-1 reports to Novorossiysk Radio from master, KM Kanidevu. (RB) UVLQ: TK MARSHAL ZHUKOV 0436 ARQ WKG UFZ, VLADIVOSTOK W/TG'S IN RR. (WT)
8393 BPAF: You Yi 1349 ARQ tfc. BPRJ: Da Qing 47 1359 ARQ tfc. BPPW: Da Qing 92 1600 ARQ discharge rpt. BPKV: Hua Cheng 1509 ARQ tlx tfc. (AB2)
8394 WMRU: SS Corpus Christi 2119 ARQ w/login ck'ing msgs, loging 11052 WMRU. (RB)
8394.5 UQTD: BKRT Nataliya Kovova 0312 RTTY in 50/170 crew TG's to Sevastopol Radio (SVS/MRH). (RB)
8395 BRXN: Yu Chi 1411 ARQ tfc. (AB2) WIBK: SS CHERRY VALLEY 0133 ARQ W/G-MAIL (SVC). LOGIN 10726 WIBK. KPSB: SS CORONADO 0505 ARQ W/QRG RPT, LOGIN 10749 KPSB. (WT)
8396 H2VD: M/V Seasong 0218 ARQ Cyprus flagged dry goods cargo vsl, w/tlx reporting proceeding to Cienfuegos, login 29263 SONG. ENHY: TKH Timofeevsk 0423 RTTY in 50/170 RYRY/DE to URL, & w/crew TG's home

(SVS/MRH). P3XS4: M/V Leader 2306 ARQ w/arrival report tlx, login 27520 LEAD. (RB) DVRD: M/V GENERAL TIRONA 0420 ARQ WKG LGB, ETA NEW WESTMINSTER MAY 4. LOGIN 26420 DVRD. (WT) PJVW: Infanta 0235 ARQ AMVER/PR, 32.47N/79.56W, selcall 26847. (AB2)

8397 JXUA3: M/V Igloo Espoo 0340 FEC w/"FEC relay, DZJ press report" & sends nx from the Phillipines, at start sent sitor login of 94567 JXUA3 app by accident. UIUR: TKH Petr Strelkov 2253 ARQ bulk carrier, w/ARHTLG+ crew TG's to Arkhangelsk Radio, login 66101 UIUR. ULFU: THB Feodor Varaksin 2305 ARQ bulk carrier (10,179 DWT) w/admin TG from master, KM Kalemenev. (RB) UOEV: PB ANTARKTIKA 0426 RTTY 50/170 W/TLG'S. (WT) UZQS: T/H PONOY 1703 ARQ admin from Km Novgorodov to UCE. UIUR: T/H PETR STRELKOV 1739 ARQ crew TGs and admin from Km Davydov to same. (HOOD)

8397.5 UALV: RTMS KULIKOVO POLYE 0945 RTTY 170/50 admin from Km Smirnov to UIW (Vessel is ex UZUR). (HOOD) EMNT: TKH Zhitomir 2321 RTTY in 50/170 RYRY/DE to UUI, & w/admin TG s to same, (ODS/RMP) from master KM Pobelevnyj, ap's to indicate hull# as 223140. (RB)

8398.5 SQAO: M/V Jastarnia Bor 2354 ARQ w/crew list tlx, login 43051 SQAO. (RB)

8399.5 UUAY: TKH Vinnitsa 2229 RTTY in 50/170 w/crew TG's. ELQZ7: TR Frost 3 2239 RTTY in 50/170 crew TG's. URHE: TKH Chapaev 2250 RTTY in 50/170 crew TG's to Odessa Radio, is ex-UNFO (ODS/UMF). (RB)

8400.5 UOLZ: TSM Kaluga 0008 RTTY in 50/170 crew TG's to K-grad, TSM is a Trauler Srednyj Morilzhnyj, or medium freezer trawler. UIAA: TSM Obdorsk 0023 RTTY in 50/170 crew TG's to K-grad. (RB)

8401.5 UQTD: Nataliya Kovshova 0315 RTTY 50/170 tfc. (AB2) UQTD: BKRT Nataliya Kovova 0315 RTTY 50/170 msgs to Sevastopol (JEB) UETF: BMRT Volzhanin 2103 RTTY 50/170 w/crew TG's, admin tfc from master, KM Dariev. UTHJ: BKRT Mariya Poldivanova 2121 RTTY in 50/ 170 RYRY/DE to URL, & w/crew TG's to same, Sevastopol Radio (SVS/MRH). P3FV6: TR Kapitan Churikov 2125 RTTY in 50/170 RYRY/DE to UIW, & w/crew TG's to same, Kaliningrad Radio. (RB)

8402.5 UNNI: RTMS Chernyashev 2206 RTTY in 50/170 admin TG's (KLD/MRH) from master, KM Maryev. (RB)

8403 OUUF2: M/V KNUD LAURITZEN 0440 ARQ IN OPR MODE LOGIN 09604 OUUF2 (WT)

8403.5 UYAC: BMRT Sergey Markarevich 2212 RTTY -h in 50/ 170 RYRY/DE to UIW, & w/crew TG's (KLD/KRH) using hull#/ID MB-0017. (RB)

8404 UBHV: Ivan Kalinin 2330 RTTY 50/170 crew TG's. (AB2) USNM: RTMA Pyatigorsk 2110 RTTY in 50/170 crew TG's to Sevastopol Radio. (RB)

8404.5 SQCY: M/S General Bem 0225 ARQ Polish bulk carrier, w/PP tlx via SPB, login 43230 SQCY. URVV: BAT Meridian-1 0333 RTTY in 50/170 crew TG's to Sevastopol. SQIW: M/S Uniwersyte Slaski 0426 ARQ Polish ore carrier, w/PP tlx via SPB, login 43245 SQIW. UVCK: TKH Pavel Mizikevich 2055 RTTY 50/170 w/crew TG's, this is Ex-UQAJ. (RB)

8405 UIIE: TKH Vil'yam (William) Foster 2230 RTTY 50/170 RYRY, & w/DISP-1 report from master KM Tofank. UYEY: TKH Mariupol 2235 RTTY in 50/170 RYRY/DE to USU, Mariupol Radio, & w/admin TG's from master KM Rud, after CW exchange "AGN? AGN? K K", USU apparently wanting a rerun. (RB)

8405.5 URJA: TH Stepan Artemenko 2140 RTTY in 50/170 RYRY/DE to UUI, Odessa Radio, no joy. (RB)

8406 SQAY: M/V Kuznica 0121 ARQ Polish General Cargo vsl, w/tlx in PP. (RB) N/A: UNID 0100 ARQ W/TLX, 3245S 05148W. LOGIN 43051 SQAO. (WT) (Jastarnia Bor -LOGS) 9HYA4: M/V CHELM 0743 ARQ eta for Gdynia and opr chat in Polish (ex SQHA??) (HOOD)

8407 SQDO: M/V Ocean Trader 0020 ARQ Polish part container vsl, w/posn tlx in PP, login 43082 SQDO. UCSA: RTMS Eysk 2200 RTTY in 50/170 crew TG's to Novorossiysk. (RB)

8407.5 UKGJ: RTMS NOVOLADOZHSKY 0610 RTTY 50/170 W/TG'S IN RR. (WT)

8408.5 LYFJ: Druskininkai 2226 RTTY in 50/170 admin TG's from master, KMD Ulbaev. (RB)

8409 ULOJ: PB ALEKSEJ KOSONOGOV 0510 RTTY 50/170 W/MSGS, ALL NUMBERS. (WT)

8412.5 UWGP: TR Vilgelm Pik 2208 RTTY (Wilhelm Pieck) in 50/170 w/long list of parts needed from Chief Engineer & master KMD Teterin to Murmansk Radio. (RB)

8413 UWUA: TKH Novozybkov 0500 ARQ w/DISP-1 report to UGC showing vsl in port La Guayra. (RB)

8414 ESJZ: RTMA Sivach 2206 RTTY 50/170 w/crew TG's to Kerch Radio

(KRCH/MRH). (RB)
8417 ZLA: Awanui NZ 0100 CW Sitor/CW Marker Globe Wireless. (AB3) GKE4: 0247 ARQ w/SITOR Marker, CW ID S9+10 (AM) (Portishead Radio, England -LOGS)
8417.5 UUI: Odessa Radio 1753 ARQ to UVPS T/H KAPITAN LEV SOLOVYEV. (HOOD) KFS: Palo Alto Radio, Ca 0627 FEC w/station info, traffic list. (RB)
8418 LSD836: Buenos Aires Radio 0632 FEC Argentina, w/"Lista de traffico" tfc list. (RB)
8420 FFT41: St Lys 0800 FEC wx fcst (EW) FFT41: St Lys r. F 1810 FEC msg to "ariane guiana" (HL) FFT41: SAINT LYS R, F 0000 FEC tfc lst (SS)
8420.5 9VG: Singapore 0800 ARQ ship to shore traffic. (MS4) CBV: Valparaiso Radio, CHL 0258 ARQ wkg CCLY, Chilean Navy frigate PFG Lynch (F-07) w/5LG msg. (RB)
8425 FFT43: St Lys r. F 1900 ARQ tape (HL)
8429 EAD: 0238 ARQ w/SITOR Marker, CW ID S9 (AM) (Madrid Radio, E -LOGS)
8431 UAT: Moscow r. 2050 ARQ idle (HL)
8432.5 UFN: Novorossiysk Russia 0537 ARQ Maritime telex tfc (AB3)
8463 CKN: Vancouver Military 2353 RTTY 75/850 'NAWS DE CKN ZKRT' marker. (JEB)
8478.5 FUF: Fort de France Martinique 0300 RTTY 75/850 RY Test tx (AB3) FUF: FN, Fort de France 0910 RTTY 75b CQ (EW)
8482 UUBI: BATM KAPITAN LOMAEV 0615 RTTY 50/170 W/TG'S. (WT)
8493.9 MTI: RN Plymouth 0806 RTTY 75b de MTI (EW)
8504 New Orleans 1920 FAX 120/576 strong (DM2) (NMG, USCG -LOGS)
8508.7 RFFX: FF, Versailles, F 0216 ARQ-E 72/425 idling. (RB)
8540 USU: Mariupol Radio 1503 RTTY 50/170 RY tape for 448/4265/8640/12697/17141.6 kHz & nav wngs. (HOOD)
8586 USO5: Izmail Radio 1540 RTTY 50/170 currency exchange rates for all "RADIO 2 KM". (HOOD)
8598.4 ZLO: Waiouru NZ 0105 75/850 RTTY Online Crypto - NZ Navy (AB3)
8630 ZSO: RSA 0430 RTTY 75/170 test tape from to 0500. (MS4) (S.African Navy, loc unsure, prob Cape Town -LOGS)
8677.5 UGC: St Petersburg Radio,RUS 1539 FEC Nx. (AB)
9041 5YE: Nairobi Met.KEN 2242 RTTY 100/844 RY+WX (HL) 5YE: Nairobi Meteo, KEN 0006 RTTY 100/850 w/AAXX meteo reports. (RB)
9045 5YE: Nairobi Meteo, KEN 0011 FAX 120/576 regional forecast chart, v.good. (RB)
9055.2 DOR***: Bulgarian MFA, Sofia 1821 RTTY 75bd/500 "pmo pmo pmo zry 11164" msg acks to Washington DC (MC)
9090 S Francisco 2337 FAX 120/576 end of tx (DM2)
9090.5 Italian MFA, Rome 0806 ARQ 100bd/170 5LGs "da maeroma" to various Emb/Cons (MC)
9090.7 Italian Diplo, Rome 0637 1200-FSK 1200bps FSK UNID System (MC)
9107 Romanian E, loc??? 0640 ROU-FEC 218.3bd/400 crypto (MC)
9110 NMF: USCG Boston 1914 FAX 120/576 ice chart? (DM2) NMF: USCG Boston, Ma 1500 FAX 120/576 w/NOAA chart. (RT2)
9114 HGG31: MTI Budapest 1000 RTTY 50/400 Marker "This is the Hungarian News Agency (MTI) = Budapest = rtt transmission for Europe and North Africa on 9.114 kc/s = & ry's/EE press. (DW)
9126.7 Unid: Italian Diplo? 0642 1200-FSK 1200bps FSK UNID System (MC)
9130 MGJ Faslane? UK. 2030 RTTY 75/850 RN availability message. (freq previously occupied by MTO and GYA - New station on the freq or same station with new callsign ???) (AB3)
9135 MKD: Akrotiri, Cyprus 1130 FDM wkg GXQ. (JD2)
9145 Italian MFA, Rome 0758 ARQ-E 96bd/170 5LGs to many european embassies (MC)
9154 D4B: Sal Cape Verde Is. 0545 RTTY 50/867 RY (AFTN cct to Santa Maria) (AB3) D4B: Sal air 0725 RTTY 50/630 Marker "de D4B D4B D4B" and RY's then aero tfc. Cct [CMA] to Santa Maria Air. (DW)
9155.5 Unid: French Diplo?,??? 1830 TT2300b 100bd (MC)
9179.5 HBD20/1: Swiss MFA, Berne 1700 ARQ 5LGs ending "hbd20/1 +?" (MC)
9204.9 Unid: Russian PTT,??? 1545 OQPSK 1280bps (MC)
9226.5 GYU: Royal Navy, Gibraltar 0651 VFT 2ch of Piccolo-6, eng. ch "lololo de gyu de gyu test test" (MC)
9226.9 GYU: Royal Navy, Gibraltar 0651 VFT 2 ch of Piccolo-6, traffic ch idle (MC)
9241.7 Egyptian Embassy, Algiers 1757 ARQ 100bd/170 ATU-80 MSGs & 5FGs "from boustan alger" (MC)

9265 Unid: Russian Diplo,??? 1600 CROWD-36 (MC)
9277.9 Unid: 0639 MERLIN 228.7bd/170 tfc (MC)
9280 VHC: Royal Australian Navy, Belconnen, AUS 1600 Piccolo (3 channels) wkg GFH Hong Kong. (JD2)
9327.9 LJA20: Norwegian MFA, Oslo 0625 TWINPLEX 100bd/400 "jeg checker ang 68" then QSY to 9274.9kHz (MC)
9338 MKK: RAF Bampton, UK 1140 FDM wkg MKD. (JD2)
9361 DFJ 36L1, PIAB Bonn 1506 FEC-A 96/381 w/nx in GG. (PT)
9797 YOJ27: ROMPRES Bucharest 0907 RTTY 50/500 Press in EE. (DW)
9983.2 Portuguese Police, loc??? 1549 ARQ sign-off "20040 cdpdl $" (MC)
10061.6 Egyptian Embassy, Rome 1907 ARQ 100bd/170 ATU-80 MSGs and 5LGs to MFA Cairo (MC)
10126.3 Algerian MFA, Algiers 0750 Coquelet-8 26.7bd MSGs in FF to "consalg vitry sur siene" (MC)
10132 TNL: ASECNA Brazzaville COG 1813 RTTY 50/400 nx (HL)
10154.3 DOR***: BulgarianMFA,Sofia 0649 RTTY 75bd/500 Call-up "olg olg olg qap" then into ASCII-ARQ (MC)
10162 YIL71: INA Baghdad 1020 RTTY 50/400 EE Press (GD2) YIl71: INA Baghdad IRQ 1339 RTTY 50/400 nx E (HL) YIL71: INA Baghdad 1025 RTTY 50/400 EE press. (DW)
10170.5 Unid 1301 RTTY 50/170 meteo, no ID. (ED)
10171 Russian PTT, ??? 0625 OQPSK 1280bps UNID System (MC)
10172.7 Egyptian MFA, Cairo 1656 ARQ (const. carrier) clg selcal "TVVQ" (Khartoum) (MC)
10177 RFFA: MOD Paris F 1334 ARQ-E3/192 msg encr (HL) 1020 Idling (HL)
10210 GXQ: RN Forest Moor, UK 1120 FDM wkg MKD. (JD2)
10213 CNM: MAP Rabat MRC 1632 RTTY 50/400 nx FF. (HL) CNM29: MAP Nx, Rabat 1720 RTTY 50bd/400 NX in FF. (MC) MAP Rabat, Morocco 1130 RTTY 50/400 w/FF nx. (RT2)
10214 HZN48: Jeddah met. 1608 RTTY 100/850 WX (HL)
10220 MKD: Akrotiri, Cyprus 1145 FDM wkg MKK. (JD2)
10272 Unid: 1726 MERLIN 240bd 8 tone MERLIN w/tfc (MC)
10298.7 HSW62: Bangkok Meteo, Thailand 1911 RTTY 50bd/170 AAXX WX for Indonesian and Chinese land stns (MC)
10346 GYU: Royal Navy, Gibraltar 1125 FDM wkg GXQ. (JD2)
10391.7 Unid: Egyptian E,??? 1541 ARQ 100bd/170 5LGs and ATU-80 "jg cfkydp kds kdjfkqor" (MC)
10415 SNN299: Polish MFA, Warsaw 0709 RTTY 75bd/225 "cq1 snn299 warszawa" & MFA computer MSG listings (MC)
10422.5 Unid 0708 ARQ-S GG text then cipher (AB3)
10475 UNID: 1247 POL-ARQ encr. (HL) MKD: Akrotiri, Cyprus 1700 Piccolo (2 channels) didn't say who he was working, just "DE MKD". (JD2)
10484 Bucharest(?) 0924 RTTY 150/405 Nx in EE about Romania. (PT)
10536 Halifax 1933 FAX 120/576 chart header (DM2) CFH: Halifax Military, CAN 0242 RTTY 75/850 w/wx, ice reports. (RT2)
10551.3 GFL23: Bracknell MET 0905 RTTY 75/400 Met traffic. Poor copy. ID string "cq de GFL23/24/25/26". (DW)
10582.7 SAM: MFA Stockholm 1335 SWED-ARQ 100 msg to various emb. in Swedish (EW)
10590.3 WGY912, FEMA, Berryville, VA 1645 RTTY 75/850 testing in the clear w/WGY906, FEMA, Denton, TX. USB voice coordination on 10588.0 kHz. To F-22 (7348.0 kHz) at 1652. (JM)
10593.3 Unid: N.Korean Diplo,??? 0632 BPSK 1200bps UNID System (MC)
10615.5 GYU: Royal Navy, Gibraltar 0740 VFT 2ch of Piccolo-6, eng. ch "de gyu the thunder state is two (2)" (MC)
10615.9 GYU: Royal Navy, Gibraltar 0741 VFT 2ch of Piccolo-6, crypto tfc (MC)
10634.1 CNM37.9X: MAP Rabat 1505 RTTY 50/400 Frequency schedule in FF & then FF press. (DW)
10659 RDL: Russian Navy 1023 36-50 also occasional FSK morse (JD2)
10671.7 Unid: 1110 RTTY 50 rpts PGWF GWFJ WJFM FJMY JMGU MGUC YUCB UCBP over and over (EW)
10726 RFGW, Paris 1447 FEC-A 192/412 5-LG traffic to un-id station. (PT)
10767 AJO: USAF Incirlik, TUR 1100 ISB w/voice on LSB, VFT-6028 on USB, wkg NSY Sigonella, Sicily. (JD2)
10855 GXQ: RN Forest Moor, UK 1135 FDM wkg MKD. (JD2)
10865 VHC: Royal Australian Navy, Belconnen, AUS 1600 Piccolo (3 channels) wkg GFH Hong Kong. (JD2)
10912 SNN299: Polish MFA, Warsaw 1731 POL-ARQ 100bd/230 5LGs (MC)

10918 RFTJ, Dakar 1440 ARQ-E3 48/390 Traffic in FF to RFFAP, Paris. (PT)
10971 HBD-20 Berne 1222 ARQ 5lg's. (ED)
10972 NSY USAF Sigonella, Sicily 1100 ISB voice on LSB, VFT-6028 on USB, wkg AJO, Incirlik, TUR. (JD2)
10991 RFFVAY, Sarajevo 0900 ARQ-M2 200/360 Non-Protege tfc to: RFFUGI, AIR SECSOULOGMATSOL, ISTRES; RFFVA, AIR CENTOPS PARIS & RFFBBYM, COMDETAIRFRIFOR, MOSTAR. (PT)
10991.7 RFFVAY***: French Forces, Sarajevo 0827 ARQ-M2 200bd/400 5LGs to RFFV (MC)
10996 FDI22: French Air Force, Aix 1603 CW "vvv vvv vvv de fdi22 ar" marker after recent chg of ID. (MC)
10998.7 Unid (Offutt?) 2100 75/850 w/KAWN synoptic wx (8-bit baudot, two-bit 'stop' element). (JD2)
11030 Melbourne Meteo 1250 FAX 120/576 w/weak signal (DW3)
11034.7 Egyptian MFA, Cairo 1638 ARQ 100bd/170 ATU-80 MSGs to Abu Dhabi, Doha, Beirut, Tunis... (MC)
11048 Unid: Russian Navy,??? 1632 36-50 50bd/200 short tfc then 36bd reversals (MC)
11055 H6L***: French Embassy, Algiers 1824 FEC-A 192bd/400 5LGs to RFGW (French MFA Paris) (MC)
11056.7 Egyptian Embassy, Khartoum 1931 ARQ 100bd/170 ATU-80 MSGs "jg kdbfclj" to MFA Cairo (MC)
11063 LZU2: Sofia Met 1430 RTTY 50/400 5 Fig Wx (GD2) LZU2: Sofia met. BUL 1750 RTTY 50/400 wx (HL)
11080 SANA, Damascus, Syria 1832 RTTY 50/421 Nx in EE. (PS) SANA Damascus 1450 RTTY 50/400 Arabic Press (GD2) SANA Damascus SYR 1745 RTTY 50/425 nx e (HL)
11084 RFGW, Paris 1430 FEC-A 192/377 Msg in FF from Defence Attache, Prague, to same in Warsaw. (PT)
11102 K4X, Tunis 1428 FEC-A 192/377 French embassy in Tunisia w/5-LG traffic to RFGW, Paris. (PT)
11106.5 MFA BRUSSELS 0640 RTTY 100/170 11106.540. Chan in 6028 type vft. Offline encrypted (5ltr grps)double spaced until "voil termine kkkk" and other signoff chat. (DW)
11106.8 MFA BRUSSELS 0624 RTTY 100/170 11106.88. Channel in 6028 type vft. Tfc in flemish? (looks like Dutch). (DW)
11109.5 Saudi National Guard, ARS 1609 ARQ-GUARD 125bd/120 ACF=48 or 96 (MC)
11118 AFS: USAF Offutt AFB, Elk Horn, Ne 1840 RTTY 75/850 w/meteo. (RT2) USAF AWS Omaha NE 2001 RTTY 75b sending wx reports. (DW3)
11122 USAF Elk Horn 1536 FAX 120/576 strong with shallow fading (DM2)
11123 Polish E, Damascus 0632 POL-ARQ 100bd/250 Claris MSGs to Warsaw (MC)
11125 HZN: Jeddah met. ARS 1314 RTTY 100/400 wx (HL) HZN: Jeddah Meteo, ARS 1825 RTTY 100/946 w/meteo tfc. (RT2)
11133 BZG41 Xinhua Bejing 1450 RTTY 50/400 FF Press (GD2) BZG: Xinhua Beijing CHN 1742 RTTY nx fr. (HL) BZG41: XINHUA, Beijing 1443 RTTY 50bd/400 qra de bzg41... (MC)
11146.5 Unid: French Diplo?,??? 1731 TT2300b 100bd tfc (MC)
11148 Unid: 0747 MERLIN 240bd 8 tone MERLIN, in IRS mode (MC)
11155.5 GYU: Royal Navy, Gibraltar 1634 VFT 2ch of Piccolo-6, eng. ch "de gyu the thunder state is two (2)" (MC)
11155.9 GYU: Royal Navy, Gibraltar 1635 VFT 2ch of Piccolo-6, crypto tfc (MC)
11172.6 LZU8: Varna? 1248 RTTY 75 RY ZNN ZOK (EW)
11414.8 Unid: 0658 TT2300b 100bd idle (MC)
11421.7 Chinese Diplo, loc??? 1604 4+4 (MC)
11430 HMF26: KCNA Pyongyang, N. Korea 1215 RTTY 50/371 in unid lang. (PT)
11432 IMB3 Rome Met 1250 RTTY 50/850 5 Fig Wx (GD2)
11441.7 Unid Italian Diplo/Mil,??? 0732 1200-FSK 1200bps UNID System, tfc (MC)
11453 IMB: Rome Meteo, Italy 1105 RTTY 50/850 synoptic wx (8-bit baudot two-bit 'stop' element. (JD2)
11456.5 Unid: 1213 PSK 2400bps UNID System (MC)
11476 HMF: KCNA Pyongyang 0015 FAX 120 text in Korean (EW)
11485.2 AOK: USN Rota, Spain 1145 FAX 120/576 various European charts. (JD2)
11522 UNID: 1339 ARQ-E 96/400 idle (SS)
11534.5 Unid: 0729 VFT 7ch of 75bd/200 FSK, 6028 type VFT with pilot at lower edge (MC)
11538.3 Unid, Brasilia 1150 ARQ-E 96/170 GG. operator msg., GG. Telex, GG.

MFA (ED)
11551.7 MKK: Royal Air Force, London 0701 VFT 16ch of 50bd/170 Baudot, "iryiry.... test de mkk" DCN (MC)
11622 USAF Roosevelt Roads 1525 FAX 120/576 strong ... but what sort of chart not clear = I'm a FAX novice! (DM2) (this should be a USN xmitter at Roosevelt Roads, several USN callsigns reported -LOGS)
11638 DDK8: Hamburg MET 0856 RTTY 50/400 Wx forecast in German. (DW)
11680 BZP51: XINHUA Beijing 1421 RTTY 75/400 Start up sequence. RY's "qra de BZP51/BZR62 Xinhua Beijing". (DW)
12075.5 Unid: 1230 Piccolo 3 channels (JD2)
12106 Unid: SOUD sta 1820 75/500 "11177" code groups (JD2)
12110 YOM21: ROMPRES Bucharest 1111 RTTY 50/500 English press. (DW)
Unid: 1230 Piccolo 3 channels (JD2)
12125 SNN299: Polish MFA, Warsaw 1547 POL-ARQ 100bd/250 Press review in Polish (MC)
12130 Unid: 1418 Piccolo 2 channels (JD2)
12130.5 MKK: Royal Air Force, London 1600 VFT 2ch of Piccolo-6, eng ch "muh de mkk zub how me? kk" (MC)
12130.9 MKK: Royal Air Force, London 1615 VFT 2ch of Piccolo-6, crypto tfc (MC)
12138.2 DOR***: Bulgarian MFA, Sofia 0701 RTTY 75bd/500 "gub pse zal 10246" call-up for Emb. Damascus (MC)
12152 GXQ: RN Forest Moor, UK 1120 FDM wkg GYU. (JD2)
12175 HMF42: KCNA Pyongyang, N.KRE 2143 RTTY 50/425 w/EE nx//11476. (RT2)
12186 JANA Tripoli LB 1921 RTTY 50/400 nx (HL)
12193 Unid SOUD sta 1418 75/500 "11177" code groups (JD2)
12196 CFM: 1445 RTTY 75/500 SOUD station sending 5lgs (11177 00125 00000 18342 00521) (SS) (Ary sez CFM isn't the callsign but rather was probably transmitted at the end of the message & means "confirm". Link 00125 is a link between SOUD stations MIG & WFO. -LOGS)
12205 NBA: USN Balboa 1923 RTTY 75/820 encr.msg. (HL)
12212.5 YZI234: TANJUG Belgrade 0923 RTTY 50/400 Press in English. (DW)
TZI234: TANJUG Belgrade 0958 RTTY 50/400 Start up sequence (Sat at 1000z) "Tanjug Beograd YZI223/7658 YZI233/11604 YZI234/12212.5 YZI235/13440 khz" and RY's. Then gives transmission time 1000-1700gmt w/night frequencies!!!. (DW)
12221 UNID: 1148 ARQ-E 96/170 idle (SS)
12228.4 BZR62: XINHUA Beijing 1423 RTTY 75/400 Start up sequence. RY's & "qra de BZP51/BZR62 Xinhua Beijing" then EE press. (DW)
12236 Unid: UN,??? 0717 PACTOR-U 200bd/200 operator chatter in EE (MC)
12250 Italian MFA, Rome 1428 ARQ-E 96bd/170 5LGs "da maeroma" "tx ambvars" (E. Warsaw) (MC)
12251.7 Chinese Diplo, loc??? 0733 4+4 (MC)
12305 Unid: 1230 Piccolo 2 channels (JD2)
12308 Unid: German Diplo?,??? 1523 MERLIN 228.7bd/170 tfc (MC)
12478 P3LT5: M/V VELOS 1840 ARQ ETA BALBOA. WBN2073: M/V RIG ENGINEER 0413 ARQ ETA HOHO, 1807N 16547W. SELCAL 12073. WSLH: SS MAUI 0418 ARQ W/QRG RPT. WLVD: LURLINE 0450 ARQ W/QRG RPT. ID 020A. LOGIN 10987 WLVD. KNIJ: SS MANULANI 2333 ARQ W/WX OBS (WT)
12479 N/A: TKH Sokofl Treyd 1741 ARQ w/PTRCHSM+ tfc, also DISP-1 report using "PTR" as homeport. No info on vsl. UFSS: TKH Artem 1745 ARQ w/login for msg ck, login 55951 UFSS. AQPH: M/V Delta Star 1820 ARQ Pakistani bulk carrier, w/AMVER/PR. (RB)
12479.5 VVKV: M/V MURSHIDABAD 0615 ARQ OPR MODE, ARGUING CHARGES. LOGIN 23653 MRSD. (WT)
12480.5 LAII2: M/V Adriatic 0000 ARQ w/departure report tlx for Port Manatee, bound Nola, login 26895 LAII2, chg from Dyvi Adriatic? AQPM: M/V Delta Peace 1621 ARQ Pakistani grain bulk carrier, w/tlx re est cargo dischg time of 48 hours, login 29519 DPCE. LXDL: M/V Crystal Pilgrim 1627 ARQ w/tlx re crew wages, login 36219 LXDL. (RB) SXJR: EVANGELOS L 2253 ARQ W/TLX, LOGIN 29286 EVANGE. (WT)
12481 URTB: SS Gepard 2052 ARQ (motor tug) w/one tlx via Odessa Rdo after sending selcall KCPX. (RB)
12482 LXDE: M/V Deloris 1653 ARQ w/list of departing crew members via WLO. 3FAU3: M/V Zeus 1717 ARQ w/AMVER/PR, w/41970 ZEUS. (RB) J8FK6: M/V BIOGRAD 1827 ARQ W/ETA VANCOUVER. LOGIN 56921 J8FK6 (WT)
12482.5 3ESY7: FRIO ARCTIC 0835 ARQ rpt on work needed to radio gear. login 42654 FRIO. (HOOD)

12483 SYTK: Manzanillo 0219 ARQ tfc to vsl owner Costamare Shipping, Piraeus, selcall 17056. (AB2) C6HV3: M/V Toscana 1538 ARQ w/tlx to Bluebird Maritime, re bound Panama, login 61698 TOSCA. (RB) WSNB: SS KENAI 1825 ARQ W/TLX RE: DELAY DUE HIGH SEAS. C6HV3: M/V TOSCANA 2245 ARQ W/TLX, 4338 NM TO BALBOA. (WT)
12484 P3SR6: M/V Saint Nectarious 1648 ARQ w/ETA St Eustis, login 05257 ST NEC. 3ELQ9: M/V Columbine 1655 ARQ w/tlx to Cape Town w/posn/status. ENUK: TKH Akademik Sechenov 1801 ARQ Ukrainian bulk oil/ore carrier w/tlx to Novoship, login 54646 ENUK. 3EUW8: M/V Tramarco Trader 2232 ARQ w/tlx for ETA Cartagena, login 42763 3EUW8. (RB)
12485.5 3FCY3: MSC Federica 1612 ARQ w/tlx re status to MSC, login 42014 3FCY3. (RB)
12486 WHML: Coastal Corpus Christi 0047 ARQ W/TLX, LOGIN 10822 WHML. WFDW: KEYSTONE RHODE ISLAND 0037 ARQ TLX TO KEYSTONE BALBOA. LOGIN 11227 WFDW. (WT)
12486.5 KNLO: SS MANUKAI 1620 ARQ W/AMVER/PR, LOGIN 10914 KNLO. KRJG: M/V PRESIDENT EISENHOWER 1742 ARQ W/JASREP, LOGIN 11596 KRJG. (WT)
12487 WJLP: SS Solar 0102 ARQ wkg unknown shore stn. (JEB) UETV: M/V Socofi Trader 0012 ARQ w/tlx for equipment needed at St Croix, login 55954 UETV. DEIP: M/V Hongkong Senator 1553 ARQ w/AMVER/PR. UTUN: TKH Akademik Iosif Orbli 1927 ARQ w/posn tlx, 2102N/7516W, ETA, login 55207 UTUN. UIIE: TKH Vil'yam (William) Foster 2340 ARQ w/tlx for ETA Havana. (RB)
12490 3FCW5: M/V Pacific Mayor 1817 ARQ w/AMVER/PR via NMN. VRUL7: M/V Getta 2205 ARQ w/AMVER/PR, after sending selcall XVSY, NMN. (RB)
12490.5 C6KR7: M/V WINTER MOON 0350 ARQ At sea at Pitcairn Isle, ETA Balboa. VWVY: M/V MARTHA MAJESTY 0220 ARQ W/TLX, LONG SUPPLY REQUISITION. 23654 MMAJ. (WT)
12491.5 PPOB: M/V FROTAMANAUS 0240 ARQ RX ONLY, LOGIN 58422 PPOB. (WT)
12492 BSJC: M/V BEIHAI 102 0742 ARQ eta for Singapore. login 20087 BSJC. (HOOD)
12492.5 CSCO: M/V CERCAL 1005 ARQ admin via CUL Lisbon. login 51825 CERC (ex "S. MAMEDE??). (HOOD)
12493.5 A8UX: M/V Marika Stravelakis 0018 ARQ bulker, w/ tlx for ETA. UZWY: TKH Kapitan Zamyatin 2013 ARQ Ukrainian bulk carrier w/tlx for ETA, login 66102 UZWY. C6LN5: M/V Capricorn 2220 ARQ w/tlx to Chartworld Piraeus. (RB) WLBV: M/V RICHARD G. MATTHIESEN 2249 ARQ WKG WLO, W/DIRTLX. LOGIN 11645 WLBV. J8FK6: M/V BIOGRAD 0320 ARQ WKG WLO, W/TLX PANAMA CANAL CLRNC. LOGIN 56912 J8FK6. (WT)
12494 UJUV: TKH Professor Rybaltovskiy 2042 ARQ w/selcall KYXX (Novorossiysk Rdo) & login, 55240 UJUV for msgs. PJRJ: M/V Dock Express 2228 ARQ w/ETA's Punta Arenas, Panama, & LA. (RB)
12494.5 SQGT: M/V Huta Zygmunt 1637 ARQ w/PP tlx after sending selcall QSKX, SPE, Szczecin Radio, login 43264 SQGT. SQPU: M/V Podlasie 1930 ARQ Polish refrigerated fish carrier, w/PP tlx via SPE, login 43315 SQPU. SQRL: M/V Kopalnia Borynia 2045 ARQ w/tlx via Szezecin Radio in PP. (RB)
12495 UICJ: Pobeda 1814 ARQ w/login for msg ck, login 54834 UICJ. (RB)
12495.5 6ZOW: M/V Allalinhorn 2002 ARQ Liberian bulk carrier, w/noon report tlx via WCC, posn 1519N/07933W, ETA Cristobal (RB)
12496 LACU2: M/V Viva 2248 ARQ w/tlx for port entry info for Port of Quebec, login 34282 LACU2. (RB)
12496.5 C6TS: M/V Are 0142 ARQ w/tlx re needs computer disks for Ami-Pro for Windows, login 70082 ARGB. SUCD: M/V Alwadi Algadeed 1844 ARQ Egyptian bulk carrier, w/tlx re cargo of 27007.99 MT of shredded scrap, ETA Yantai. login 78001 SUCD. ZDAR2: M/V Barbara E. 1849 ARQ Gibraltar flagged cargo vsl, w/ballast, draft & bunkers info, login 50381 ZDAR2. (RB) 3EIK8: M/V ATLANTIC STAR 2240 ARQ WKG WLO, W/TLX. LOGIN 42715 ASTAR. N/A: UNID 0210 ARQ W/TLX, RE OFFLOADING. LOGIN 24435 REMA. (WT)
12497.5 SQGX: M/V Otol 0115 ARQ cgo lst to "Szina Portnova (JEB) OULK2: M/V Ivar Lauritzen 2035 ARQ w/AMVER tfc to "amver San Francisco", posn 1854N/10558W, bound Los Angeles. DZBI: M/V East Fortune 2332 ARQ w/AMVER/PR for Los Angeles. (RB) WSNB: SS KENAI 1735 ARQ W/ETA, EL SEGUNDO. H9HK: M/V FRIO GALICIA 0358 ARQ W/TLX TO, ATHENS. LOGIN 42435 FRIGA. VRUW2: M/V PAIUTE 0023 ARQ W/AMVER, LOGIN 50491 PAIU. (WT)
12499 UFSS: T/H ARTEM 0631 ARQ eta for Balboa. login 55951 UFSS. SVQJ: M/T

APENEMO 1136 ARQ eta for Augusta with Russian crude oil. (HOOD)
12501 SYKV: S/T Karoline 2307 ARQ w/tlx for voyage 04577, ETA "the Loop", login 16949 KAROLINE. (RB)
12502 3EAW7: PACIFIC RIDER 0131 ARQ W/TLX ARR, BALBOA, VIA WLO. LOGIN 42593 3EAW7. (WT)
12503.5 CRYS: Inago 1601 ARQ w/AMVER/PR, login 51860 CRYS. (RB) ELEV8: LIRCAY 2230 ARQ RX ONLY, LOGIN 24887 ELEV. (WT)
12507 P3XW4: M/V Fedra 1451 ARQ w/ETA to Southwest Passage, login 27537 P3XW4. (RB)
12509 WSLH: SS MAUI 1846 ARQ ETA SFO. WFDW: KEYSTONE RHODE ISLAND 1850 ARQ W/QRG RPT. WEZM: SS EWA 0346 ARQ WKG KEJ, W/AMVER/PR. SAN PEDRO TO SEATTLE. (WT)
12510 J8EX5: M/V RACISCE 2235 ARQ W/TLX, LOGIN 26545 RACISC. (WT)
12512.5 UZLR: T/H ZAKARPATYE 1444 ARQ eta Piraeus to USU. (HOOD) UWTB: TKH Akademik Guber 1823 ARQ w/DISP-1 report from master KM Golub to Mariupol Radio. UYWN: TH Akademik Artsimovich 2009 ARQ w/BCMRCT tfc after sending selcall KCPV, Mariopol Radio. (RB)
12524 UKFQ: T/H YAKOV REZNICHENKO 0627 RTTY 50/170 admin to UCE from Km Tikhomirov. (HOOD)
12534 EWAH: TR-Marshal Malinovskiy (VLD) 0110 RTTY 50/170 in Russian, TG's to Vladivostok (JEB)
12535.5 UITJ: T/H PETR VELIKIY 0810 ARQ psn rpt to UHS. (HOOD)
12537.5 LXPC: M/V CRYSTAL PRINCE 2236 ARQ W/TLX, LOGIN 36282 LXPC. (WT)
12558.5 N/A: RTMA SOKOLINOE 0400 RTTY 50/170 W/TLG'S. (WT) (UTSI -LOGS)
12560 N/A: TR Azov 1905 RTTY 50/170, w/admin msgs to Novorossiysk Radio from master KM Biskup. (RB)
12560.5 UHAK: RTMS Zyublino 1710 RTTY 50/170 (KLD/MRH) RYRY/DE to UIW, & w/Atlantic wx to same, Kaliningrad Radio, using hull#/ID RTMS-8106. ESMQ: BMRT Yakob Hurt 1844 RTTY in 50/170 crew TG's using name & c/s as ID. (RB)
12561 UCBZ: RTMS Atoll 1659 RTTY in 50/170 RYRY/DE to UGW, & w/crew TG's to Novorossiysk Radio. (NVR/MRH), note now using "RTMS" vs "BMRT" prefix. (RB)
12561.5 UAUN: NIS Akademik Ioffe 1900 RTTY 50/170, Russian research ship, w/RYRY/DE to UIW, & w/admin msg from master, KM Apekhtin, is ex-UKLP. EVBP: TR Yantarnyj Bereg 1904 RTTY in 50/170 RYRY/DE to UIW, then w/admin msgs fm master, KM Gorbunov to DPR Vlad RTF. UNMY: BATM Balakhna 1925 RTTY 50/170, w/admin tfc from master, KMD Serenkov. (RB)
12562 UHZD: TKH Novokuznetsk 2034 RTTY 50/170 RYRY/DE to UGC & into admin TG's from master KM Kireev using name & also listing hull# 255025. (RB) ENZH: T/H SOSNOVKA 0715 RTTY 50/170 admin and EE tlx from Km Petrov to Izmail. (HOOD)
12562.5 YLGL: TR SELDERI 1040 RTTY 170/50 admin from Km Sedkevich to UIW. (HOOD) UBOW: TR Penzhinskiy Zaliv 1730 RTTY 50/170 13051 DWT refrigerated fish carrier, w/admin msgs from master KM Eremenko to Vladivostok radio. EMGX: TR Sevastopoliskaya Bukhta 1801 RTTY in 50/170 C-51 report from master, KMD Avdzhyan, apparently the ex-UFBX. UYPU: TR 50 Let SSSR 2025 RTTY in 50/170 crew TG's to Sevastopol Radio. Few days later on 12567.5 w/C51 report from master KM Kunnikov via URL. 3EHJ9: TR Frio Krym 2027 RTTY 50/170 admin msg to RTF (Refrigerated Transport Fleet) Klaipeda. EUHG: TR Kukotskiy Bereg 2040 RTTY 50/170 RYRY/DE to UIW, & w/crew TG's. (RB)
12563 LYHQ: 1039 RTTY 50/170 Lithuanian vessel calling LYL, Klaipeda R. (PT) UBHL: BATM Galaktion Tabidze 1841 RTTY in 50/170 crew TG's to Novorossiysk Radio (NVR/MRH). YLCL: TH Kurska 2213 FEC w/TG's to Riga Radio. (RB)
12563.5 DPEH: M/V ESPERANZA 0755 ARQ rpt in GG passing Dakar to Globe Wireless, Gothenburg. N/A: MV NORCAPE 0955 ARQ to SAB with ETA for Gibraltar login 26628 NORCAP. (c/s is PGJL -LOGS) ELMY3: M/T TRANS MINERVA 0715 ARQ eta for La Skhira. login 26444 ARGMIN. (HOOD) UIMY: RTMA-Peredovik (SVS/MRH) 0640 RTTY 50/170 Fish catch rpt (JEB) 3FRG5: M/V Vernal Star 1805 ARQ w/tlx to Oceanroutes for posn, 4030N/06047W, at 075/13.13kts. LXDC: M/V Crystal Primadonna 1946 ARQ w/company formatted tlx. UYTB: RTMKS Rybak-1 2132 RTTY in 50/170 crew TG's to K-grad. PJVW: INFANTA 1700 ARQ W/AMVER/PR (WT)
12564 UQAZ: TKH Kislovodsk 1918 RTTY 50/170, RYRY to UGC, St Petersburg Radio, & into crew TG's. (RB)

12564.5 UGXQ: SRTM 1500 LET KIEVU 1305 RTTY 50/170 crew TGs to UIW. (HOOD) UNMJ: BATM Dzhaparidze 1657 RTTY in 50/170 crew TG's. UALU: NIS Atlantida 1809 RTTY 50/170 Russian research ship (KLD/KRH) w/RYRY/DE to UIW, & w/admin TG's from master KM Gnilomedov. LYLN: RTMKS Daukantas 1818 RTTY 50/170, w/RYRY/DE to LYL, & into crew TG's, seemed to use prefix ZSTSK, is ex-RTMKS Simonas Daukantas. J8KQ2: DZTS Volga 7 1825 RTTY 50/170, w/RYRY/DE to LYL, & into crew TG's. UALO: SRTM Maltsevo 1838 RTTY in 50/170 crew TG's using hull#/ID SRTM-8102 (KLD/KRH) to K-grad. UAWH: Kapitan Bubnov 1948 RTTY 50/170, w/RYRY/DE to UIW, & w/crew TG's using hull#/ID AA-1837 (ARH/KRH), also sends admin TG for BMRT Khibiny (ARH/KRH) using hull#/ID AB-0112 from master, KM Belousov. URTK: BMRT Vysokovsk 2042 RTTY in 50/170 crew TG's to Murmansk using hull#/ID MB-2418 (MRM/KRH). (RB)
12565 UFXI: TR Novorossiyskiy Rabochin 1918 RTTY in 50/170 RYRY/DE to UGW & admin TG's from master KM Aliev. (RB)
12565.5 UAUO: NIS Akademik Sergey Vavilov 2048 RTTY 50/170 Russian research vsl w/DISP-1 reports from master, KM Kalanikov, is Ex-UKOS. (RB)
12566 YLFB: RTMS Aitsinayams 1540 RTTY 50/170, w/crew TG's using hull#/ID LM-7552, also sends same for YLFS, BATM Kapitan Jedemskiy & YLEL, BMRT Gunar Akis, all Latvian trawlers. YLFQ: Unid LP-8096 1706 RTTY 50/170, w/RYRY/DE & w/admin msg to Rigas Tzveynietsiba from KMD Makarevich using hull#/ID LP-8096, name of vsl is unk. (RB)
12566.5 UWFI: T/H PORT SAID 1456 RTTY 50/170 admin from Km Popel to UUI. (HOOD) UVDD: TKH Kapitan Dzhurshecich 1800 RTTY 50/170, 11278 DWT Ukrainian general cargo vsl (ODS/UMF) w/crew TG's, vsl bound Las Palmas. UWCC: TKH Sergey Lazo 1817 RTTY 50/170, Ukrainian general cargo vsl w/RYRY/DE to UUI, & into admin TG from master KM Podlesovskiy. UVMV: TH Petr Aleynikov 1833 RTTY 50/170 Ukrainian general cargo ship w/crew TG's to Odessa Radio. UVMH: TKH Mekhanik Bardetskiy 2022 RTTY 50/170 RYRY/DE to UUI w/"TEST" in EE in hailing marker! Into crew TG's to Odessa (ODS/UMF). (RB)
12567 UCBW: RTMS Nikifor Pavlov 1719 RTTY in 50/170 admin TG's to Novorossiysk Radio from master KM Povdyrev. (NVR/KRH) UGAA: Sabaptou 1728 RTTY in 50/170 RYRY/DE to UAT, Moscow Radio, no joy. (RB)
12567.5 USVB: TR Rizhskiy Zaliv 1947 RTTY in 50/170 RYRY/DE to URL, & w/C51 report to same from master KMD Aleksandrov. (RB)
12568 UBXS: ALEKSANDR KOSAREV (MA-1806) 0942 RTTY 170/50 admin from Km Verboloz to UDK2 (answering CW on 13050.0). UVJA: KAPITAN BOGOMOLOV (MA-1831) 0949 RTTY 170/50 to UDK2. (HOOD) UNRK: Demyansk/MB-2420 (MRM/KRH) 0050 RTTY 50/170 in Russian, msgs to Murmansk Tralflot. (JEB) UPVU: Tolko (Tokyo) Bereg 1835 RTTY in 50/170 crew TG's using hull#/ID MA-0058. UPRR: BATM Petr Sbignev 1911 RTTY in 50/170 RYRY/DE to UDK2, Murmansk Radio, & w/TG to Murmansk "UDF" Control from master KM Nikolayenko using hull#/ID MA-0055, then into crew TG's. N/A: KI-8088 1944 RTTY in 50/170 admin tfc to Murmansk Sevryba, may have used name "Prosba Peredt". UEXD: TSM Olayne 2000 RTTY 50/170 stern trawler w/crew TG's home using hull#/ID MI-8339. (RB)
12568.5 LYDN: BMRT Demyan Ryabuko 1928 RTTY in 50/170 admin tfc to Rybradio Klaipeda. (RB)
12569 YLFS: BATM Kapitan Jedemskis 2057 RTTY in 50/170 crew TG's to Riga using name & hull#/ID LZ-6119, also sends admin tfc for YLEK, BMRT Karlis Bude as BMRT 490 from master KM Shcherbina. (RB)
12571 UQUN: T/H MEKHANIK FOMIN 0803 ARQ to UCE, login 54499 UQUN. (HOOD)
12572 ULSU: BMRT Volgobalt 1802 RTTY 50/170 (MRM/KRH) w/msgs to Murmansk Tralflot using hull#/ID MB-0136, from master KMD Dyadyk. N/A: M/V Nady 1847 CW sending 2 msgs via unid coastal station. (RB) UHLE: SEMYON LAPSHENKOV (MB-0014) 0720 RTTY 50/170 admin/BBXX to UDK2. UBXS: ALEKSANDR KOSAREV 0845 RTTY 50/170 crew TGs to same using hull number MA-1806. (HOOD)
12572.5 UELX: BATM Volopas 1713 RTTY 50/170 Russian Large Long Range/ Endurance trawler, w/Atlantic wx report from master, KM Morozov, this is app the ex-LYGD. UAMB: BMRT Kokand 1721 RTTY in 50/170 admin TG's from master, KMD Stalikov, apparently the ex-LYIR. UIIK: TKH Kapitan Kirichenko 1815 RTTY in 50/170 crew TG's to Vladivostok Radio. (RB)
12573 5NYJ: TR Zodiac Star 1846 RTTY 50/170 RYRY & w/long admin msg from master, KM Tstinovich (flagged-out Russian vsl). UNRK: BMRT Demyansk 2047 RTTY 50/170 RYRY/DE to UDK-2 & into crew TG's to same, Murmansk Radio, using hull#/ID MB-2420 (MRM/KRH). UGXB: TSM Orlovka 2105 RTTY

50/170 w/conclusion of crew TG's, normally uses hull#/ID BI-0641. (RB)
12573.5 LYEW: RTMS Nikolay Afanasev 1657 RTTY in 50/170 admin TG's. (RB)
12574 UCBD: BMRT Kronshtadt 1531 RTTY 50/170 (MRM/KRH) RYRY/DE to UDK2, & into TG's for UFKG, Orlan, using hull#/ID MI-1665, to Murmansk Sevryba from master KM Pisarenko. UFKA: BATM Kapitan Maklakov 1633 RTTY 50/170, Russian long range/endurance Large Trawler, w/TG's to Murmansk Tralflot via UDK2 using hull#/ID MA-0058 from KMD Getdan. (RB) UNCH: BMRT GAZGAN 0723 RTTY 50/170 admin from Km Gushchin to UGW. (HOOD)
12575 UHLW: BMRT Leonid Novospasskiy 1838 RTTY in 50/170, Russian factory trawler w/crew TG's using hull#/ID MA-0015. (RB)
12576 ENMZ TH KAPITAN DUBLITSKIY 0950 RTTY 170/50 admin from Km Karneev and msg in EE to OCEANROUTES SFO via UAT. (HOOD)
12579 NIK: USCG Boston 1222 FEC International Ice Patrol bulletin. (DW)
12580 ZLA: 0027 ARQ w/CW ID. (EW) (Awanui Radio, New Zealand -LOGS)
12585.5 VRX: Victoria Hbr 0029 ARQ w/CW ID. (EW)
12590 9VG: Singapore 0030 ARQ w/CW ID. (EW)
12591 VRX: Victoria Hbr 0033 ARQ w/CW ID. (EW)
12593 UHK: Batumi r. GEO 0942 ARQ w/CW ID. (HL)
12601 ZSC63: Capetown radio 1732 FEC Coast wx forecast followed by high seas wx bulletin for RSA offshore ocean areas. (DW)
12603.5 SVA: Athens radio 1311 FEC Greek ship press. Poor sync. (DW)
12607.5 WNU: Slidell Radio, La 2056 FEC w/tfc list. (RT2)
12627.5 USU: Mariupol Radio 1045 ARQ to URHM TH KOMSOMOLOETS ADZHARII for Km Bereza abt discharge at Tarragona (vsl is ex UHMV). (HOOD)
12660.5 UGW: Novorossiysk Radio 1505 RTTY 170/50 crew TGs to UBHL: BATM GALAKTION TABIDZE. (HOOD)
12739 UAT: Moscow Radio,RUS 1332 RTTY 50bd Nx + tfc to th Mihail Strekalowskij (AB)
12795 UCE: Arkhangelsk Radio,RUS 1345 RTTY 50bd Tfc (AB)
13030.6 FUF: FN FORT DE FRANCE 2347 RTTY 75 RY FUF FUF (EW)
13314.6 Unid: N.KoreanDiplo,??? 0626 BPSK 1200bps UNID System (MC)
13351.7 Egyptian MFA, Cairo 1626 ARQ ATU-80 MSGs to various embassies (MC)
13378.7 Unid: Italian Diplo,??? 1220 1200-FSK 1200bps UNID System (MC)
13378.7 Egyptian MFA, Cairo 1437 ARQ ATU-80 MSGs to Algiers "kdqikef" (MC)
13381.5 IPG20: Italian MFA, Rome 0713 ARQ 5LGs to San'a ("ambsana") (MC)
13388.5 Italian MFA, Rome 0727 ARQ 5LGs to Middle Eastern Embs "da maeroma" (MC)
13397 DFZG***: Serbian MFA, Belgrade 0645 RTTY 75bd/400 crypto after "xjxjxjxjxjxj" (MC)
13399 DFZG: MFA Belgrade 1411 RTTY 75/400 Diplo msg bdcast. On line encrypted. (DW)
13401.7 Egyptian MFA, Cairo 1451 ARQ ATU-80 MSGs to various European embassies (MC)
13440 TZI235: TANJUG Belgrade 0921 RTTY 50/400 Press in English. (DW)
YZI235 Tanjug Belgrade 1030 RTTY 50/400 English Press (GD2)
13452 Unid: 2050 RTTY 75/180 Encrypted Tx but "KFS40 NAWS" appeared in middle of msg. Fluke ??? (RC)
13473 GYU: Royal Navy, Gibraltar 1125 FDM wkg GXQ. (JD2)
13506.7 Egyptian MFA, Tripoli 1315 ARQ 5LGs "from boustan tripoli" (MC)
13543 Unid 1256 ROU-FEC 164.5/400 no traffic. (ED)
13573 Unid: 1317 ARQ-E 72/313.5 lgs ended w/"bt gr 483 #5012" (RC)
13580.5 MKK London 1913 PICCOLO Mk-6 QSY to "f16" (ED)
13715 Unid: 1628 RTTY 75/850 NDP (JD2)
13835 Unid (Offutt?) 2100 75/850 w/KAWN metars for U.S. airfields (8-bit baudot, two-bit 'stop' element), seems to have settled here after abandoning 12184 & 13530, //7784. (JD2)
UNID: 1312 RTTY 75/850 KAWN meteo (SS)
13840.7 GXQ: Royal Navy, London 0634 VFT 5ch of 50bd/170 Baudot, "ryiryi... test de gxq" DCN VFT (MC)
13874 Unid: Romanian?,??? 1332 ROU-FEC 164.4bd/400 crypto (MC)
13875.4 HGX-21 Budapest 1250 DUP-ARQ 125/170 (ED)
13880 RAU***: SOUD Station,??? 0725 RTTY 75bd/500 "rau 2/1402" ID "11177 00070 00000 02015 06659" (MC)
13882.5 Hamburg 1409 FAX 120/576 strong idle (DM2)
13928.7 DOR***: Bulgarian MFA, Sofia 0820 RTTY 75bd/500 "ryryry... gd zoh 3 dumi 5225" and tfc to Prague (MC)

13933.3 DOR***: Bulgarian MFA, Sofia 0845 RTTY 150bd/500 NX in Bulgarian (MC)
13951 HBD20/6: Swiss MFA, Berne 1445 ARQ 5LGS to HBD88 "tripolamo" (Embassy Tripoli) (MC)
13951 HBD88: Swiss Embassy, Tripoli 1446 ARQ 5LGS from HBD20/6 (MFA Berne) (MC)
13956.5 Tunisian MFA, Tunis 1026 FEC 5LGs, calls JDX, RAC, L5Y, 3YQ (MC)
13957 SNN-299 Warsaw 1541 POL-ARQ 100/200 5 CRC, brief pol. msg. (ED)
13966.4 ICRC, Baku 0635 PACTOR-I 200bd/200 MSGs to Geneva in FF and EE (MC)
13977 UNID: 1602 ARQ 5LGs (SS)
13996.5 STK: Khartoum air SDN 1850 RTTY 50/400 tape"hsssyfyx" (HL) STK: AFTN Khartoum, Sudan 1150 RTTY 50/400 "QJH HSSSYFYX" & RY's. (JD2)
13997.5 Unid: 1628 Piccolo 2 channels (JD2)
14321 Unid illegal op from Somalia 1053 ARQ They transmit there about illegally since about 5 years encrypted. 5 years ago he sent me in amtor: QTH: Mogadishu, Call: T5BLU. Later on he was heard in Amtor w/clear text in swedish language. He also transmits on 14.332, 14.312 or if condx are good 21.432 in the morning or in the noon. So we need urgent reports from other countries to localize the intruder in Europe. The fellow from Somalia calls the other operator w/selcall MLOP. If you hear them pse give me a report with the exact QTE (degrees from Your QTH!). Relayed from Wolf, DK2OM in Germany. (FM)
14340 BAF47: Beijing met. 1658 RTTY 50/850 wx (HL)
14362 UNID: 1634 RTTY 100/488 "55,55.." (HL)
14364 Unid: SOUD Station,??? 1341 RTTY 75bd/500 5LGs on link id "20087" (MC)
14367 BZP54: Xinhua Beijing CHN 1308 RTTY 75/400 RY (HL) BZP54: XINHUA Beijing 1114 RTTY 75/400 English press. (DW)
14376 DOR***: BulgarianMFA,Sofia 1344 RTTY 75bd/500 NX in Bulgarian (MC)
14390 UNID: 1305 ARQ-E 300bd encr. msg. (HL)
14391.5 Unid: 1258 PSK 2400bps UNID System (MC)
14401.6 4UZ: UNHCR,Geneva 1335 PACTOR-U 200bd/200 NX in EE abt Turkish & Iranian problems (MC)
14406.2 LN2A: Norwegian PTT, Sveio 1504 CW marker plus mixed signals including 100bd/850 reversals (MC)
14411 Unid: RUS 0703 36-50 50bd/200 tfc (MC)
14413.5 Unid: 1429 VFT J7B 6028 75 bd NDP (JD2)
14419.5 CLP: MFA Havana 0748 RTTY 75 MINREX CLP then 5 LTR GRPS (EW)
14438.3 FJY2: DTRE Port Aux Francais, Ker 0737 ARQ-E3 96 idle (EW)
14455 VHC: Royal Australian Navy, Belconnen, AUS 1300 Piccolo (3 channels) wkg GFH Hong Kong. (JD2)
14467 KRN: Loc. Unk 1735 RTTY 75/525 1386 5LG's. (PS) (Brotherhood station, normally hrd 14465.3 -LOGS)
14476.1 Belgian MFA, Brussels 1105 VFT 6ch of 100bd/170 Baudot, MSGs in FF (MC)
14478 4UZ: UNHCR, Geneva 0758 PACTOR-U 200bd/200 MSGs in EE to Somalia, Ethiopia & Pakistan (MC)
14487.2 FDX France 1251 ARQ-E3 200/400 FF press from RFFAB, C.I. ="FDX" (ED)
14497.7 CSY: Santa Maria Air, AZR 1820 RTTY 50/850 w/weak tfc. (RT2)
14534.5 IPG20: Italian MFA, Rome 1344 ARQ 5LGs & MSGs to various european embassies (MC)
14573 JANA Tripoli 1611 RTTY 50/400 YR's and marker in Arabic (ATU70). Suddenly off air short period.Then Arabic press. (DW)
14582 Unid: 1825 Piccolo 2 channels (JD2)
14585 RFPTC: FF N'djamena TCD 1249 ARQ M2/200 idle (HL)
14610.5 Unid: French Diplo?,??? 1551 TT2300b 100bd idle (MC)
14626.7 "RFLI": FF Fort de France, MRT 2126 ARQ-E3 192b [LIJ] wkg "RFTJ". (JD2) RFLI: French Forces, Fort de France 1842 ARQ-E3 192/442 idling. (RT2)
14643.7 4UZ: UNO,Geneva 1236 TWINPLEX 100bd/170 United Nations NX review in EE (MC)
14645.7 Egyptian E, Khartoum 1620 ARQ 5LGs & ATU-80 MSGS to MFA Cairo (MC)
14699 TIX70: INA Baghdad 0646 RTTY 50/400 Arabic press. (DW)
14732 Warsaw 1502 POL-ARQ 100/170 5 CRC, msg. to Lagos. (ED)
14760 CNM61: MAP Rabat 1019 RTTY 50/400 French press. (DW)
14798.7 Unid 1443 ARQ-M2 200/300 idle, weak (logged as RFFVAE by (EW) in past WUNs) (ED)
14801 RFVF: FF Le port REU 1802 ARQ-E3 idle (HL)
14821.6 Unid: Korean Diplo?,??? 1410 FSK 250bd/170 UNID System, short bursts

of data ACF=19/38/57/76 (MC)
14836 Unid 0900 RTTY 75/500 Polish Text? (GD2)
14890 Russian Man Number Station, RUS 0800 USB Msg for 615. Msg 89513, 82403 (AB)
14901.7 Egyptian MFA, Cairo 0738 ARQ ATU-80 to "fljk" (Rome) (MC)
14904.2 Belgian Embassy, Beirut 0821 VFT 6ch of 100bd/200 Baudot (Type 6028), 5LGs to Brussels (MC)
14912.5 SPW: Warsaw Radio, Warsaw 1413 FEC Marine traffic lists "tfc-lista" (MC) PAP Warsaw, POL 1810 FEC w/tfc in Polish. (RT2)
14926.7 RFTJ: FF Dakar SEN 1245 ARQ 192Bd Idle (HL) RFTJ: French Forces, Dakar, SEN 1806 ARQ-E3 192/442 w/contole de voie. (RT2)
14950 GYU: Royal Navy, Gibraltar 1440 Piccolo (2 channels) test tape "DE GYU" only. (JD2)
14957.9 FF NOUMEA RADIO 0305 ARQ-M2 128.5 FF news items and wx rpts (EW)
14963 TAD: Turkish MFA, Ankara 0705 FEC-A 144bd/850 MSGs in TT to many embassies (MC)
14966 Egyptian Embassy Moscow 1405 FEC-A 100/170 (GD2)
15043 Cairo, Egypt 1725 ARQ Egyptian MFA w/traffic for Ottawa. (PS)
15462 JANA Tripoli 1105 RTTY 50/400 FF press. (DW)
15652 SNN299: Polish MFA, Warsaw 1413 POL-ARQ 100bd/250 Press review in Polish (MC)
15747 Unid: 1728 Piccolo 2 channels (JD2)
15770 Unid: DW RELAY 0810 RTTY 75 RY (EW)
15781 NHR or NAU?: USN, Roosevelt Roads, PR 1908 FAX 120/576 w/USAF wefax, good. (RB)
15861 RFFX: MOD Paris F 1548 ARQ/72 encr. msg (HL)
15920.4 CFH: Halifax Military, CAN 2145 RTTY 75/850 w/NAWS marker. (RT2) CFH: Halifax Military, NS, CAN 1906 RTTY 75/850 NAWS (Notice to Allied Warships) marker. (RB)
15946.5 EAE220: Spanish MFA, Madrid 0808 TWINPLEX 100bd/400 crypto, tfc ends "jjjjj:" (Channel 21) (MC)
15961.7 RFLI: French Forces, Fort de France, Martinique 1904 ARQ-3 in 192/425 idling. (RB)
15988.5 Unid 1706 TOR-7B 100/200 F7B-4, 5lg's , Dutch embassy traffic, but no ID on station. (Khartoum and Tehran noted in prior WUN logs) (ED)
16014 Unid 0840 RTTY 150/500 Bulgarian Text? (GD2)
16021.7 Cairo(?) 1507 ARQ Locked space tone, atu-a,"dar alslam kinshasa". (ED) Egyptian MFA, Cairo 0758 ARQ 100bd/170 ATU-80 MSGs (MC)
16125.3 RFQP: French Air force, Djibouti 1810 ARQ-M2 200Bd Circuit [QPB]. Traffic. (PS)
16127 M4W Mossad 0830 RTTY 75/340 Call up messages (GD2)
16135 KVM70: Honolulu Meteo, Hi 1838 FAX 120/576 w/isobar lines only. (RT2)
16136 BZR66: Xinhua Beijing CHN 1035 RTTY 75/375 nx (HL) BZR66: XINHUA Beijing 1230 RTTY 75/400 Idle marker "ryryryryryryryry Xinhua Beijing" then English press. (DW) BZR66: XINHUA Beijing CHN 1107 RTTY 75/400 nx (HL)
16158.1 Cuba 1723 RTTY 50/500, Minrex press from Latin Am. (ED)
16159 UNID: 1020 ARQ6-90 5LG "CNRY" (HL) (Ary sez MFA Paris w/a message to French Embassy Conakry (CNRY) -LOGS)
16166.5 Unid: 1827 FAX 90/576 wx, too weak to identify (JD2)
16171.7 Egyptian Embassy, Rome 0802 ARQ ATU-80 MSGs to MFA Cairo (MC)
16175.5 Unid: 1228 Piccolo-12, crypto (MC)
16179 CLP1, Havana, Cuba 1850 RTTY 50/519 Cuban MFA HQ w/circulars for missions abroad concerning the shoot down of the two 'Brothers in Arms' a/c's. (PS)
16201.9 SNN299: MFA WARSAW 0532 POL-ARQ 100 Polish msgs 5 ltr grps (EW)
16213 DKAR***: French E, Dakar 0937 ARQ6-90 200bd/400 5LGs (MC)
16231.7 Chinese Diplo, loc??? 0800 4+4 (MC)
16265 9FV207: Singapore 1905 RTTY 75/850 w/strong signal. (RT2)
16268 German E Beijing 1822 ARQ-e idle (HL)
16273 SOUD Station, loc?? 1418 RTTY 75bd/500 5FGs to link ID "11177 00098 03685 27466 02609" (MC)
16277 JWT: Norwegian Navy Stavanger,NOR 1357 ARQ Nx. (AB)
16284.9 Norwegian E, loc??? 1143 TWINPLEX 100bd MSGs in Norwegian (MC)
16312 UNID: 1014 ARQ-E 288 Encrypted trfc (HL)
16314.4 Unid 1709 FEC maritime msg. in UNID language, prob.greek, mentions Saint Nazare, port, w. France. (ED)
16314.7 Unid 1716 ARQ Idle only (ED)

16324.7 RFTJD: FF Libreville 0613 ARQ-E3 192 idle (EW) RFTJF: French Forces, Libreville, GAB 1916 ARQ-E 192/425 idling. (RB)
16332 MFA Bucarest ROU-FEC 1122 encr.(HL)
16332 V5G***: Romanian MFA, Bucharest 1048 ROU-FEC 164.5bd/400 crypto (MC)
16339.9 Unid: Romanian?,??? 0758 ROU-FEC 218.3bd/400 crypto (MC)
16340 Unid: Diplo 1323 RTTY 75/500 Bulgarian press - prob MFA (JD2)
16344.5 Unid 1559 ARQ 100/328 Wide shifted SITOR, encrypted (ED)
16351.5 Unid 1941 ARQ On short time, UNID language. (ED)
16685.5 UNOJ: Dekabrist 1916 ARQ tfc via WLO. (AB2) UNOJ: TH DEKABRIST 1850 ARQ W/MSG IN ALL NUMBERS. LOGIN 55736 UNOJ. (WT)
16689.5 DVHN: EURASIAN GLOW 1840 ARQ W/TLX, LOGIN 76753 DVHN. 9HZY4: M/V EVELYN 0124 ARQ W/TLX, VANCOUVER TO AUSTRALIA. (WT)
16690 UNID: m/v "Corpus Christi" 1400 ARQ msg (HL) (WMRU, U.S. Flagged SS Corpus Christi -LOGS)
16693 HBDL: Grischuna 0006 ARQ tfc, selcall 51234. (AB2) DGCR: M/V ARBITRATOR 1837 ARQ W/BBXX (WT)
16694 BOAE: Dong He 2053 ARQ AMVER/PR, vsl bound for Yokohama. (AB2) 3FRW4: M/V Corona Brave 1511 ARQ w/ETA to Balboa anchorage. (RB) HBDL: GRISCHUNA 2222 ARQ W/AMVER/PR, 1221N 10156W.LOGIN 51234 HBDL. (WT)
16697 C6KO2 M/V LAPPONIAN REEFER 2218 ARQ W/AMVER, 3736S 17612E. LOGIN 29239 C6KO2. (WT)
16703 PPWG: Nacional Santos 1902 ARQ several tellies for Rio, selcall 02000. (AB2)
16703.5 PJOW: M/V Prince of Seas 1735 ARQ w/AMVER like msg (06700Z AP//) after sending selcall (RB)
16711.5 P3LT5: M/V VELOS 1828 ARQ W/SVC TO: GLOBE. LOGIN 00598 P3LT5 (WT)
16713 C6TX: Bahamas 1525 ARQ msg (HL) (this is M/V Baltic Sea -LOGS) UHBT: TH KOOPERATSIYA 0112 ARQ W/TLG'S, LOGIN 55103 UHBT (WT)
16713.5 C6TX: M/V Baltic Sea 1854 ARQ Bahamian flagged cargo vsl w/AMVER/DR, login 70054 C6TX. (RB)
16716 UNID: 1410 ARQ unk m/v msg to Novorossiysk (HL)
16721 LXPC: M/V CRYSTAL PRINCE 1900 ARQ TFC CHK, LOGIN 36282 LXPC. (WT)
16785 UEVG: T/H NIKOLAY KRYLENKO 1337 RTTY 50/170 crew TGs to UGC. (HOOD)
16787.5 UAUF: BATM ALEKSANDR KSENOFONTOV 1245 RTTY 170/50 to UIW (Vsl is ex LYFK). (HOOD)
16790 UNID: 1510 FEC same nx as 16710/cw "quezon city reggie malou". (HL) SA-shipping SASP msg to Stima/cdt 1552 ARQ. m/v "Crystal Primadonna" 1225 ARQ cargo rpt zeebrugge (HL) (c/s is LXDC -LOGS)
16795 UNID: 1200 ARQ "Bonny Nigerian" to leixos por chrtrs "gama pinto" (HL)
16797 UFXI: TR Novorossiyskiy Rabochin 1954 RTTY in 50/170 admin TG's from master KM Aliev. (RB)
16798 N/A: M/V Crown Matapang 1957 FEC w/"crew list...Crown Matapang" and listing each crewmans name/posn in ship, not a telex, more like an ann. (RB)
16801.5 UBKS: RTMS SOKRAT 1130 RTTY 50/170 admin to UIW. (HOOD)
16802.5 UWBS: RKTS NIKOLAY FILCHENKOV 1334 RTTY 50/170 crew TGs to URL. UTHJ: BKRT MARIYA POLIVANOVA 0939 RTTY 50/170 crew TGs to URL. (HOOD) YLGD: TR Ronyu Sala 1845 RTTY in 50/170 RYRY to UIW, & w/admin msgs to Riga RTF (REFTRANDFLOT, Refrigerated Transport Fleet, Klaipeda) from master KM Makov. EWML: BMRT Aleksander Bogolyubov 1951 RTTY in 50/170 crew TG's to K-Grad (KLD/UTF). (RB)
16803.5 UUIV: RKTS GENERAL PETROV 0951 RTTY 50/170 crew TG to URL. (HOOD)
16806.5 NIK: USCG Boston 1218 FEC International Ice Patrol bulletin. (DW)
16816 ZSC64: Capetown radio 1730 FEC Coastal wx forecast for 50 miles from RSA coast. (DW)
16817 WCC: Chatham radio 1240 FEC Stn info, tfc list, high seas forecast. (DW)
16821.5 Lyngby Radio 1630 FEC Nx in Danish. (RC)
16828 UBN: Mariupol r. UKR 1221 ARQ idle. WLO: Mobile r. AL USA 1457 ARQ "Meba telex times" weekly marine newsletter (HL)
16830.5 SVU: Athens radio 1258 FEC On standby till 1307 then Greek ship press. (DW) SVU: Athens r. GRC 1157 ARQ tape (HL) (sitor free signal? -LOGS)
16834 CUL: Lisbon r POR 1444 FEC "cultex p" (HL)
16839 UFA: Novorossiysk r RUS 1220 ARQ idle. PCH6: Scheveningen r. NL 1204 ARQ tape (HL)
16841 UFZ: Vladivostok 0103 ARQ CW ID. (EW)

16930 MRB: 0834 RTTY 50/170 RY (AB3)
16951 6WW:FN Dakar SEN 1503 RTTY 75/900 "voiyez le bric". At 1140, Idling 1210 RTTY 75/850 foxes (HL)
17066 UAT: MOSCOW 0527 RTTY 50 msgs to Vladivostok WTSCA (EW)
17138 Unid 24 hrs RTTY 100/850 encrypted tfc. (MS4)
17424 Unid: Diplo 1325 POL-ARQ Polish press - prob MFA (JD2)
17432 DFZG: MFA Belgrade 1413 RTTY 75/400 Diplo msg bdcast. On line encrypted. (DW)
17443 BZG48: XINHUA Beijing 1125 RTTY 50/425 Startup sequence "qra de BZG48 Xinhua Beijing" and RY's. Frenchpress from 1130z. (DW)
BZG48: XINHUA beijing 1133 RTTY 50/450 nx Fr. (HL)
17452 V5G***: Romanian MFA, Bucharest 0740 ROU-FEC 164.5bd/400 crypto & MSGs to Lagos (CW opchat) (MC)
17460 UNID 1154 POL-ARQ Encr.tfc (HL)
17468 Unid: 0727 RTTY 75 5LGS no id. (EW)
17476 MFA Cairo Egypt, 1133 ARQ msg encr. (HL)
17525.8 WJI: 0654 RTTY 100 RY WJI then at 659 into arq.e 96/850 idled until 0707 then off who is this? (EW)
17550 RFTJ: FF Dakar SEN 1230 ARQ-E "Controle de voie AFL101" (HL)
17590 HZN: Jeddah Meteo, Saudi Arabia 1150 RTTY 100/850 synoptic wx for middle east. (JD2)
18036.7 UNID: 1550 ARQ ATU-80 txt (SS) (Ary sez MFA Cairo -LOGS)
18039.8 UNID: 1414 RTTY 50/480 nx in SS (SS)
18040 TCY4: AA Ankara 1134 RTTY 50/850 Press in Turkish. 440hz high. (DW)
18046.7 Lisbon 1717 ARQ 5lg's, ending in "ut lisboa". (ED)
18049.5 CLP1 (?): MFA HAVANA, CUB 1555 RTTY 50/520 msgs and news in SS (SS)
18050 SNN299: Polish MFA, Warsaw 1238 RTTY 75bd/250 NX review in Polish (MC)
18055 DFZG: MFA Belgrade 1415 RTTY 75/400 Diplo msg bdcast. On line encrypted. (DW)
18064 SNN299: Polish MFA, Warsaw 1103 POL-ARQ 100bd/240 Claris MSGs & 5LGs (MC)
18066.4 "de ver" ? Geneva 1459 PACTOR-I 200/200 ICRC Geneva with FF msg. (ED)
18093 Unid: SOUD Station,??? 1422 RTTY 75bd/500 5FGs on link ID 60003 (MC) (new freq for FQX? -LOGS)
18173 STK: Khartoum air SDN 1004 RTTY 50/400 "hssyfyx" (HL) 1335 RTTY 50/400 wx (HL)
18191.7 Italian Diplo/Mil, loc?? 1059 1200-FSK 1200bps UNID System (MC)
18220.9 MAP Rabat, Morocco 1520 RTTY 50/400 w/FF nx. (RT2)
18221 CNM76X9: MAP Rabat 1309 RTTY 50/850 Press in English. (DW)
CNM76/X9: MAP News, Rabat 1251 RTTY 50bd/400 NX in EE abt Moroccan geological surveys (MC)
18253 SUU3: Cairo, EGY Meteo 1200 RTTY 100/850 w/synoptic wx (1 Khz higher than published freq). (JD2)
18255 CNM78: MAP Rabat 1328 RTTY 50/400 nx (HL) (MEA New Delhi here & in 50/400 -LOGS)
18265 CNM78: MAP Rabat 1312 RTTY 50/850 Press in EE. (DW)
18314.5 Unid: French Diplo?,??? 1351 TT2300b 100bd tfc (MC)
18316 Egypt Embassy, Djaza ir, ALG 1503 ARQ625 5lg (HL)
18332 Unid: 0750 RTTY 75b 5LGS no id. (EW)
18422 Unid: SOUD Station,??? 1409 RTTY 75bd/500 5LGS to link ID "10024" (MC)
18451.5 Jakarta 1622 ARQ Indo. lang. msg. to Damascus. (ED)
18496.1 CNM80/X11: MAP News, Rabat 1008 RTTY 50bd/400 NX in Arabic (MC)
18646.7 PCW1: Dutch MFA, Den Haag 1357 ARQ 100bd/170 phasing bursts and CW ident "pcw1" (MC)
18648.5 SPW: Warsaw radio 1406 FEC Polish ship press. (DW)
SOT265B: PAP Warsaw Radio, Warsaw 1357 FEC tfc list "de warsaw radio" (MC)
18806.7 JKT: MFA Jakarta 0611 RTTY 50 diplo msgs and 5LGS (EW)
18872 BZP54/BZR68: XINHUA News, Beijing 1016 RTTY 75bd/400 "qra qra qra de brp/54/bzr68 ryryryry" marker (MC)
18966.7 RFHJ: French Forces, Papeete, Tahiti 1900 ARQ-E3 96/425 idling on circuit HJL. (RB)
18970.5 "RFLI" Caribbean 1707 ARQ-E3 96/392 5lg's. (ED)
19048.7 RFFA: FF Paris 1335 ARQ-E3 192/400 8CRC. Betas. Fading, losing sync. (DW)
19053 Unid 24 hrs RTTY 75/850 encrypted tfc. (MS4)
19130 Interpol, loc? 0540 ARQ Tfc from Pretoria (AB3)

19171.1 CNM85X11: MAP Rabat 1158 RTTY 50/850 Press in FF. Shift twice that normally (400hz) used & centre low by 220hz. End of FF bulletin 1201z. 1208 start up sequence & skeds in EE. Press in EE. (DW) MAP Rabat, Morocco 1545 RTTY 50/400 w/FF nx. (RT2)
19289.7 Cuba 1734 RTTY 50/400 Minrex Cuba w/EE (!) press, warbly tones. (ED)
19362 NHF: USAF Homestead USA 1423 Fax 120/576 Chrts (HL) (no longer a xmitter site at Homestead, now supposedly a USN xmitter at Roosevelt Roads, PR -LOGS)
19462 SUNA Khartoum SDN 1018 RTTY 50/200 nx E (HL)
19567 Egypt emb. Beirut LBN 1108 ARQ-e Encr.tfc. (HL)
19747.5 6VU: Dakar met.SEN 0930 RTTY 50/400 RY (HL) 6VU79: Dakar MET 1329 RTTY 50/400 Met tfc. (DW)
19751.5 6VU79: Dakar met. SEN 1214 FAX 60/576 LSB!! WX chrts (HL)
19860 GYA: MTO RN Rosyth G 1210 RTTY 75/400 3FG (HL)
19980 9BC33: IRNA Teheran IRN 1028 RTTY 50/450 nx E (HL)
20286 Unid 24 hrs RTTY 75/850 encrypted tfc. (MS4)
20599 Unid 24 hrs RTTY 75/850 encrypted tfc. (MS4)
20651 Pyongyang N Korea 0120 RTTY 50/993 N.Korean Diplo. - Korean in transliterated Latin text (AB3)
20950 Unid 1539 ARQ-E 192/170 encrypted (UNID in previous WUN logs). (ED)
22380 PCH75: Scheveningen r. NL 1200 ARQ w/CW ID. (HL)

=MARITIME=

435 WLO Radio 0305 CW w/traffic list (AM)
1728 Vardo Radio, NOR 2135 USB w/traffic list. (SM)
2103.5 CG3029: CCGS Earl Gray 0302 USB wkg another unid CCGS re location & ice conditions. (RB)
2182 PBK: Neth. CG,HOL 2309 USB Ann. nav. wng (AB) Montoni(sp?) 2016 USB clg Palermo Radio w/no response. Then calling Napoli again no joy. Presume Montoni is vessel not shore station. (DES) VCO: CCG Sydney, NS, CAN 0235 USB w/securitie ann re gale warning. VCG: CCG Riviere-au-Renard Rdo, CAN 0329 USB w/ann re gale warning. NMB: USCG Group Charleston, SC, US 0415 USB w/pan-pan ann re 2 flares being sighted off the coast of Ga., req vsls in area keep sharp lookout. ZCAN3: SS Gypson Baron 0513 USB wkg Yarmouth CG Radio, QSY 2582/2206 for R/T. Unid: Swedish vsl Vestpil? 0625 USB clg Quebec CG Radio on "16"... oops! (RB) Humbar Radio, UK 2137 USB wkg GDWP, Veronica Viking, they chopped to Chan' Quebec (1925Khz) first but it was "uncommercial on this freq" they then went to Romeo (2684Khz). Anyone know what type of craft the Veronica Viking is ? (SM)
2206 VCRJ: M/T Irving Eskimo 0320 USB wkg Yarmouth CG, CAN (on 2582) for R/T call. (RB)
2514 VCP: CCG St Lawrence CG Rdo, PQ, CAN 0524 USB wkg unid vsl on 2118 w/incoming R/T call, had hailed vsl on 2182. (RB)
2582 Unid 0118 USB Canadian EE w/FF accents, last stn id'd as 'renard clear'. (MS2) (Canadian Coast Guard, probably VCG, Riviere-Au-Renard -LOGS) VCN: CCG Cap-aux-Meules, CAN 0328 USB wkg unid vsl ?-Star (on 2206) for R/T call. (RB)
2591 Unid 2112 USB Italian..Possibly LIVERNO RADIO (??). (SM)
2598 VOJ: Stephenville CG Radio, NF, CAN 0210 USB w/wx in EE to 0215, then in FF. (RB)
2670 NMN70: USCG Eastern Shore Grp, Chincoteague, Va, USB 0235 w/MIB. NMR1: GANTSEC, USCG Greater Antilles Section, San Juan, PR 0310 USB "CG San Juan" w/MIB, wx. NMA21: USCG Group St Petersburg, FL, US 0320 USB w/wx, MIB. NMF2: USCG Group Woods Hole, Me, US 0333 USB w/ securitie broadcast re vsl loosing over 100 life preservers over-board! NMB: USCG Group Charleston, SC, US 0420 USB w/wx, MIB. (RB)
2749 VCO: CCG Sydney, NS, CAN 0519 USB w/securitie ann, wx/gale warning. VAU: Yarmouth CG Radio, NS 0550 USB w/marine wx in EE/FF. VCN: CCG Cap-aux-Meules,CAN 0634 USB w/securitie ann, wx/gale warning in FF/EE. (RB)
4101 marine ch 4384 shore station (EG)
4191 9HZV3: M/V ADIGE 0706 CW to GKB. (HOOD)
4198 TCCL: M/V GENERAL KAZIM ORBAY 1903 CW to TAH (signs as G K ORBAY). (HOOD)
4235 VAI: CCG, Vancouver CG Rdo, BC, CAN 0619 CW w/CQ marker. (RB)
4274 KFS: Palo Alto Radio, Ca 0633 CW w/CQ, QSX marker. (RB)
4275 HPP: Panama Intelmar Radio, PAN 0630 CW w/V/CQ/QSX marker. (RB)

4285 VCS: CCG Halifax CG Rdo, NS 0635 CW w/CQ marker (RB)
4294 WNU31: Slidell Radio, La, US 0614 CW w/CQ, QSX marker. (RB)
4298 PPO: Olinda Radio, BR 0408 CW w/V, QSX marker. (RB)
4303 OXZ2: Lyngby Radio,DNK 1516 CW Tfc list (AB)
4417 Russell Radio NZ 0740 USB small ships sked. (AB3)
4426 NMF: COMSTA Boston 0032 USB w/Schooner Jackson, Duplex 4134. (AM)
4932 SPW: Warsaw Radio,POL 2107 USB Tfc list (AB)
5678 Marine chatter on aircraft band, Australian fisher men talking about foot ball. Even Aussi's operate out of band. (SB)
6224 KCE270: Maritime Enterprises Inc, Miami Beech, Fl 1155 USB wkg vsl Tropical Breeze. (RT2)
6277.5 9HRE3: T/H DANUBE EXPRESS 1748 CW msg to Izmail USO5. (HOOD)
6290 ELSJ3: M/T Alfios I 0158 CW Liberian oil tanker, w/4 messages being sent via unid coastal station. (RB)
6292 EOLL: T/H MORSKOY 5 0704 CW msg to Tallinn ESA. (HOOD)
6344 SVB: Athens r. GRC 2154 cw marker. (HL)
6379 4XZ: Haifa r. ISR 2155 CW marker. (HL)
6382 URL: Sevastopol r. UKR 2201 CW marker. (HL)
6383 6VA: Dakar radio 2200 CW Wx in FF. Also MAFOR. (DW)
6415 7TF4: 0215 CW w/Marker, S9 signal (AM) (Boufarik Radio, ALG -LOGS)
6478 SVA: Athens r. GRC 2210 CW Msg about strike (HL)
6491.5 VCS: CCG Halifax, NS, CAN 1115 CW w/QSX marker. (RT2)
6493.5 VAI: CCG, Vancouver CG Rdo 0649 CW BC, Canada w/CQ marker. (RB)
6507 Unid 0940 USB Marine weather for australian waters. (SB)
Lyngby Radio 2315 USB w/offshore wx in Danish/EE. (TB)
7863 SPW: Warsaw 1745 CW 26 WPM QSX 8406 (GD2)
7865 SPS Warsaw Radio? 2248 USB presumed them w/talk in Polish (TB)
8116 S/V MOHAWK 1115 USB wkg MERRY MERRY & CORIOLIS in yacht net around the Caribbean...MOHAWK was heading to St.Thomas,USVI...at 1120 two of the boats switched to 4024.0 while the CORIOLIS joined a ham net on 7268.0. (TB)
8176 Sydney Radio 1117 USB w/offshore wx. (TB)
8267 ELBM9: M/S Tropicale 0038 USB Carnival Cruises 36,674 DWT cruise ship, clg/wkg WOM for R/T tfc. 3EWK9: M/S Fascination 2334 USB Carnival cruise line 70,000 GWT cruise ship concluding R/T tfc w/WOM (on 8791). (RB)
8294 WBN3012: Tug Ensign 1202 USB wkg unid re relief. (RT2) (probably WPE Jacksonville -LOGS)
8297 KMC-237 Greenpeace, San Francisco, Ca, US 0400 USB wkg S/V Manutea (DD) WHU959: N.Atlantic Enterprises 0029 USB wkh vsl Watering Bay for att R/T call, party not in. (RB)
8347 6LZR: M/V ORYONG 78 1756 CW to HLW. (HOOD)
8449 A9M: Hamala r. BHR 2021 CW marker (HL)
8476 9VG56: Singapore 1100 CW marker. (MS4)
8487 VID: Darwin 0749 CW CQ (EW)
8496 CLA: Havana Radio, Cuba 0217 CW w/CQ/QSX marker. (RB)
8505 RJFY/UCW4: St Petersburg R 0805 CW w/CQ & QSW 4233/6380/8405?/12765 followed by traffic list. (PvdE)
8522 FFL2/3/4 Saint Lys R France 2150 CW Sending repeated ID w/freqs.(DW3)
FFL: St Lys r. F 2030 CW tape (HL)
8525 WNU33: Slidell Radio, La 2155 CW w/QSX marker. (RT2)
8638 DAM: Norddeich r. D 1805 cw tape (HL)
8680 WSC: Tuckerton Radio, NJ 2230 CW w/QSX marker. (RT2)
8692.5 SVD4: 0253 CW w/Marker. (AM) (Athens Radio, GRC -LOGS)
8694 PJC: 0250 CW w/Marker. (AM) (Curacao Radio, ATN -LOGS)
8704.5 UGW: Novorossiysk Fisheries Radio 1735 CW crew TGs to UGMS, RTMS KAPITAN SMELOV. (HOOD)
8706 JOS Nagasaki 1625 CW marker. (HOOD)
8707 VIS: Sydney radio 0315 USB wkg "7885" & "3240" Later at 0623 VIT Townsville radio clg "3284" Asked to move to Ch 817 (8767) where it IDed as VMH65 a landmobile (AW)
8719 9M69: Penang radio 0844 USB Voice Mirror in chinese (AW)
8722 VIS: Sydney Australia 0107 USB Maritime Radphone tfc (AB3)
8767 VIT: Townsville Australia 0120 USB Working ships (AB3)
8782 UJQ: Kiev radio, 0425 USB Voice Mirror in Russian (AW)
8806 FFL41: St Lys Radio France 1505 USB Voice/music test tape (AB3)
8815 S/V Manutea 0430 USB in contact with S/V Vega and M/V Greenpeace (DD)
12356 (12 Bravo) USB 1700. The daily Matson Navigation call-up found

Monukai/KNLO discussing new Globe Wireless software for ship comms. Monukai was loud and clear here, but the other vessel, Matsonia/KHRC was not readable. Matson ships have been good QSLers in the past.(RA)
12552 SXGL: PANTHEA 1855 CW CLG SVB NJ. (WT)
12556.5 UWLE: TR PROLIV LONGA 2257 CW CLG ULF NJ. (WT)
12675 UCW4: St Petersburg (NW Shipping Co) Radio 1509 CW relaying crew TG from T/H Tuapse (via Novorossiysk Radio) to EUBX: T/H VOLGOBALT 107. (HOOD)
12676 HMZ: Pyongyang R 1603 CW w/QTC traffic list. (PvdE)
12710 VWB: Bombay R 1535 CW w/VVV followed by nav warnings at 1548Z. (PvdE)
12711 HCG: Guayaquil R 2105 CW w/tfc list (very bad hand keying). (PvdE)
12750 CWA: Cerrito R at 2110 CW w/CQ marker. (PvdE)
12930 JYO: Aqaba R 0823 CW w/CQ marker. (PvdE)
13098 Cyprus/Cypriot (?) Radio 1538 USB "This is (Cyprus/Cypriot? couldn't quite make it out) Radio, Radiotelephone marking service." in EE & presumed GK. (DES)
13131 9VG67: Singapore radio, 0925 wkg "P3AA3"(any ID on this?) (AW) (M/V Epta -LOGS)
16619. BOAX: An Bao Jiang 2107 CW clg BOLA. (AB2)
16683.5 SYOV: M/V Oinoussian Strength 1628 CW clg/wkg SYHP, M/V Oinoussian Sky. (RB)
16710 UNID: // 16720 1400 CW nx from Philippines (HL) (Filipino crewed ship passing on the nx from home -LOGS)
16841 UFZ: Vladivostok 0103 CW CQ (EW)
16870 DZJ: Bulacan R, Phillipines 1440 CW w/CQ marker. (PvdE)
16932 7TF10: Skikda r. ALG 1233 CW marker (HL)
16945 XVG: Hai Phong R 1403 CW w/traffic list. (PvdE)
16950 6WW:FN Dakar SEN 1503 RTTY 75/900 "voiyez le bric" (HL)
16966 SVB: Athens r. GRC 1525 CW marker (HL)
16978 3BM: Port Louis Rdo, Mauritius 1430 CW w/msgs. (PvdE)
16982.5 SVD: Athens 0458 CW CQ (EW)
17011 XSX: Chi-lung R 1057 CW ann HR TFC LIST CMG. (PvdE)
17050 4XZ: Haifa r. ISR 1458 CW tape (HL)
17074.4 LGX: Rogaland Radio,NOR 1400 CW Tfc list (AB)
17135 UTQ: Kyev r. RUS 1147 CW (HL)
17145 LZW6: Vrana r BUL 1520 CW tape (HL)
17147 URL Sevastopol 0945 CW to UYDV RKTS MORE SODRUZHESTVA. (HOOD)
17162 PPO Olinda 0953 CW marker. (HOOD)
17172 9MG: Georgetown R, Malaysia 1405 CW CQ marker. (PvdE)
17185 PKE: Amboina R 1220 CW w/CQ QRU? (PvdE)
17198.9 PCH60: Scheveningen r. NL 1142 CW marker (HL)
17239 PKX: Jakarta R 1223 CW w/CQ QRU? (PvdE)
17248 5BA62: Nicosia r. CYP 1511 USB Tel. serv. (HL)
17348 PCH61: Scheveningen r. NL 1510 USB tfc (HL)
18020 Scottish fisherman? 2027 USB swearing, must be the fisherman again. I have never heard them this high-up the band before!? (SM)
22380 PCH75: Scheveningen r. NL 1200 CW marker (HL)
22708 PCG71: Scheveningen r. NL 1308 USB msg (HL)

=MILITARY=

122 OUA: DM Stevns DK 2133 CW (HL)
2702 Royal Navy Coastal Control Ch.GB 0419 USB w/2 tone channel available signal (UKMACCS Maritime Coast Control). (RB)
2806 IGJ41: Italian Navy, Augusta, I 2101 CW tape (HL)
3023 Rescue 11 0242 USB wkg unk stn for radio check, no joy. (CM)
3192 "Navy Auckland" RNZN Auckland 0815 USB wkg patrol craft HMNZS Hinau. (AB3)
3195.2 R: Naval Channelmarker,RUS 2125 CW. (AB)
3245 MARS Net 0102 LSB (new freq?) talking about computer problems, one station id'd as aar2hg; another abbreviated call as "dv". (MS2) (Air Force MARS -LOGS)
3275 Unid Military, USN? 0321 USB clg Bravo 28, other weak comms. (RB) Victor 99 0345 USB wkg Papa 25, etc. Navy Comms? First time I've hrd this freq used. (WP)
3295 QUANTITY 0108 USB wkg NIGHTWATCH 01. (JH)
3349 NNN0ZTL: Navy MARS unknown location 0314 USB wkg NNN0ESU, also unk location. 7XR: UnID 0323 USB clg 1NO (One November Oscar). MARS op's req ID of stations, no response. Warned that they were operating

on US Gov. frequency. X7R: UnID 0331 USB X7R and 1NO often referring to themselves as 1N and X7. They fail to acknowledge MARS operators req for ID. 7XR: UnID 0339 USB 7XR/1NO sound like they are experimenting with some sort of tracking system. 1NO mentioned that 7XR "popped in" at about 186 mi. out at a bearing of ??? degrees. 1NO: UnID 0341 USB 1NO asked for new frequency. 7XR responded with "code word HOCKEY" (at least it sounded like hockey). 1NO returned & req 7XR stay on this freq. (DF) (Link 11 Coordination net, USN/NATO -LOGS)

3394 HMS Hecla 2240 USB wkg Seavo/Seaport? coming into Amphib Base Little Creek. Thanks Rick Baker for ID on this one. (DES) GPBA: HMS Hecla (A-133) 2359 USB clg another unid vsl, no joy. (RB)

3814 FDE14: Unid FF CW marker after recent chg of ID. (MC)

3906 "OA": Irish Military, Dublin 1025 USB wkg '253'. (ANEE)

4116 IAER: Unid Italian warship 2246 USB Italian tracking net w/track reports (AB)

4263.1 ZLO: Waiouru NZ 0155 CW CW Mkr - RNZ Navy (AB3)

4420 UKMACCS Coastal Control 0914 USB w/beeps for channel availability w/CIS pp underneath/over the top!! (SM)

4426 NMF: COMSTA Boston 0032 USB w/Schooner Jackson, Duplex 4134. (AM)

4469 Station "0967" 0057 USB wkg unid station. Caught this QSO at tail end, so never heard other sta's ID. Assume this is a coastal station as QSO sounded very informal. (DES) (Civil Air Patrol -LOGS) Sparrow 236: NCS, Florida CAP Net 0157 USB wkg Mobile 33, Sparrow 41, w/check-in to the net. (RB)

4495 NIGHTWATCH net 1330 USB w/player clg someone, maybe NIGHTWATCH 01. (JH) NIGHTWATCH 01: 0713 USB wkg BEST IDEA on S304, adv maintain this as primary, req they contact stations CURLYTOP & CLASSICAL & have them come up here. (RB)

4500 AFA2TR: NCS, USAF MARS VA Info 0242 USB Net, wkg AFA2RD, Fairfax, Va w/check-in. (RB)

4501 Unid: 0215 USB It sounded like they were operating a net,with the city of Memphis mentioned. Call sign AFA2AM (DW3) (USAF MARS -LOGS)

4519 UKMACCS ship freq Ch36 2130 USB "Coastal you are loud & clear" then RTTY. (SM)

4550.5 TBU5: Turkish Navy 0137 CW w/V marker, TBDJ DE TBU5 tfc, all "TBxx" calls are Turkish Naval ships, so TBDJ is a collective call to "any Turkish Navy ship" (RB)

4560 N/A: HMCS Kingston (MCV700) 2238 USB wkg Halifax Military w/request for "in-clear" RTTY transmission due to problems app w/cypto gear. This is a new vessel, used by reserves mostly for patrol duty. (RB)

4565 UKMACCS Coastal Control 1649 USB wkg GC, "Send 10 sec mark please", UKMACCS Ch 36. (SM)

4597 FDI22: 1930 CW active tfc from this French Air Force station (CK)

4706 Architect 0805 USB w/Neatishead, 8QU. RAF tracking net. Buchan 0752 USB Neatishead, 8QU. RAF tracking net. (SM)

4715 RAF Volmet West Drayton, England 2330 USB w/aviation wx. (DES)

4721 EXECUTIVE ONE FOXTROT 0242 USB wkg Andy on F-877. (BWS)

4724 Offutt 0537 USB w/5UKQPP... (EG) OFFUTT 0526 USB, as lead GHFS station, with 20/20/26 character EAM set over a 8 minute period. "____NINE ONE" (could not make out first part) 0643 USB clg ANDREWS in the middle of one of ANDREWS "lead station" EAM transmissions. (JH) Neatishead 1132 USB & 7LL. RAF tracking net. (SM)

4730 MKL: 1900 CW MKL Wx for EGQK and EGQL. (CK)

4739 Spangle 751(yl) 0753 USB clg Quebec 95 or Mike 5 then any stn. Bath 01 0813 USB wkg Q9M w/radio check. Bath 01 is British om & Q9M is apparently NAm male. Bath 01 0823 USB wkg Q9M to see if Q9M received CRATT traffic. Q9M 0825 USB wkg Bath 01 to ascertain if CRATT traffic was Quick Brown fox ry ry ry .... confirmed. Spangle 752(om) 0828 USB clg Q9M Then into any stn, then Blue Star, & on & on between the three. Q9M 0859 USB clg Spangle 751 and again at 0903. Q9M 0905 USB clg Sierra 4 Juliet Golf, then clg 6UW. Dutch 01 0943 USB wkg Q9M reporting ACU unit fine, operator sounded East indian. (EC1) RUGBY 04 (RAF Aircraft) 2250 USB wkg ?, req wx for NAS Oceana. (I've got RUGBY listed as a VC-10). (SW2)

4742 Architect UK 0700 USB QNH for UK airfields (AB3) NATO 12 USB wkg selcall JK-LM r/c architect (CH) NIGHTWATCH 0348 USB w/5UET4... followed by "this is NIGHTWATCH out". NIGHTWATCH 0354 USB clg

Andrews. (EG) Magic 88 1435 USB wkg Architect req. wx for EGXW. Navy 706 1437 USB wkg Architect (Navy unreadable). Magic 88 1438 USB wkg Architect act wx. OSD 99 1447 USB wkg Architect dept. message. 1DM95 1454 USB wkg Architect. helicraft with 4 pax on board going from EGOS (ops.said Harriford?) to EGAA via EGOV. Ascot 5350 1513 USB wkg Architect. Dept. Lyneham EGDL 1430/40 ETA LIBD 1815/25 st.rel. K+ BRIKKAZ selcal AJBH call you ops.normal in 60min. 1DM95 1516 USB wkg Architect. 1500Z wx for EGOV valid 1450. 7C94 0920 USB wkg Architect dept ETUL xxxx/xx ETA EGXH xxxx/xx. msg 3PFB??2 st. call 5K4KA (hard readable). Ascot 5040 0924 USB wkg Architect. Ascot 5040 on 4742 dept. Lyneham 0820/30 ETA ?geri 1450/00 st.rel. K selcal AKDL. Ascot 4360 0928 USB wkg Architect dept. msg selcal AJBL (unreadable). 5K4KA 0935 USB wkg Architect ??? (nothing heard). Ascot 586 0944 USB wkg Architect selcal FLBG. Kittyhawk 1 0947 USB wkg Architect st.rel U dept. Northolt 0935/45 ETA Linton 1025/30 selcal EMBQ. IFN 71 0843 USB wkg Architect. dept. Lyneham 0755/00 ETA LDSP 1100/10 st.rel K+SPUHPRR selcal A(S?)DL. IFN 83 0846 USB wkg Architect. Dept. Lyneham 0820/30 ETA Br? (Brussels??) 0940/50 st.rel. L + BGNKORR & SPUKORR selcal AJBF. ZD950 0848 USB wkg Architect req. selcal check DJAB. 8IG 0855 USB wkg Architect. Radio check. Architect 0902 USB radio check. Ascot 5844 0903 USB wkg Architect dept. Lyneham 0830/40 ETA Gibraltar LXGB 1310/20 st.rel. K + GIBKORR+ GIBRKRR selcal AJEG. Pasty 0908 USB wkg Architect Radio check. req. wx actual for Kinloss & Sola. Architect asked for ICAO 4 letter. EGQK ENZV. Ascot 2030 0912 USB wkg Architect St.rel L dept.Playvog(?) 0830/35 ETA ???? selcal BLHJ. 7GT 0921 USB radio check (nothing heard). Pasty 0927 USB clg Architect (nothing heard) (HH) QUANTITY 0106 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 wkg unid station at 0445z, w/X904 primary, & X209 secondary. (JH) PACOM 01 0150 USB is (safely) on the ground at Andrews AFB after a low battery in a crash indicator caused the indicator to activate on its guard frequency (243.0 MHz UHF) while enrt to Andrews AFB. PACOM 01, through a pp, adv RESCUE OPS that they had NOT crashed. RESCUE OPS then thanked PACOM 01 for the heads-up & stated that their crash indicator beacon had indeed been picked up by at least one reporting party. (JJ) ASCOT 3387 2320 wkg Architect for radio/selcal check. DJ-AE, TriStar KC1 ZD953. Kitty 4 1335 USB wkg Architect, std relay V, dep EGWU (RAF Northolt) 1320z, eta EGNT (Newcastle) 1415z. Selcal EM-BQ BAe146 ZE702 No. 32 (The Royal) Sqn positioning flight. IFN 47: 1750 USB wkg Architect for selcal check CF-AE - VC-10 XV104. Ascot 5687 1815 USB wkg Architect, std relay K, dep Gander 1435z, ata 30W 1802z, eta Lyneham 2135z. Selcal AK-BE Herc. XV223. Ascot 5892: 1145 USB wkg Architect for selcal chk. AK-BG Herc XV290. Ascot 3200 2341 USB wkg Architect std relay Y, dep EGVN 2250z, eta 23N 0320z, dest FHAW (Wideawake, Ascension). Selcal LM-BK, TriStar C2 ZE705 of 216 Sqn RAF Brize Norton. (PR) STRIKE 01? 1128 USB wkg unid. (RT2) GUUS: HMS Broadsword 1240 USB clg/wkg ARCHITECT re pp. Odd that the Navy use STCICS? ARCHITECT 0940 USB wkg Mobile 1, adv to go to 2591 Khz & call Architect. ARCHITECT 1900 USB "Airfield pressure settings...". 8QU 0725 USB wanting a wkg freq for Buchan etc. Adv DELTA is the desig. Kittyhawk 1 1455 USB clg for Architect. no reply. (SM) L7T (Nimrod) 1510 USB wkg Architect, req wx for RAF Kinloss. 7PW (RAF a/c) 2323 USB wkg Architect, req actuals for LICZ (Sigonella), LICJ (Palermo) & LIBR (Brindisi). Architect only had the wx for Sigonella & Palermo. (SW2) ASCOT 3490 0653 USB wkg Architect, dep. EGVN/0610, est. 15E/ 0830, eta LCRA/1025, relay D, selcal DJ-BC (L15, ZD952). "P3S" 0709 USB wkg Architect, radio check. IFN09 0710 USB wkg Architect, dep EGDL/0645 eta ETUR/0815 relay K + BGNKKRR + BGNRKRR, selcal AJ-DL (C-130, XV207). ASCOT 5912 0751 USB wkg Architect, dep EGDL/0715 eta BIKF/1105, relay M, selcal AJ-BD (C-130, XV186). "Rescue" 0758 USB radio check w/Architect. ASCOT 2674 0810 USB wkg Architect, selcal check, selcal CF-AE (VC-10, XV104). IFN80 0834 USB wkg Architect, selcal check, selcal AJ-HL (C-130, XV220). Rafair 3C71 0914 USB wkg Architect, msg unreadable (Wessex heli). ODH 1A 0921 USB ground radio check w/Architect. Swallow 92 0936 USB wkg Architect, dep EGAA on route EGOS (Wessex heli). ASCOT 2708 0951 USB wkg Architect, selcal check, selcal CF-AB (VC-10, XV103). (WdM) SRG 129 2212 USB r/c ARCHITECT, rescue helo closing down. (PR)

4894 SAM 375: USAF Special Air Mission a/c 0526 USB wkg Andrews VIP w/signal ck's on F555. (RB)
4992 C253: Irish Air Corps Casa CN-23 1913 USB to "23", testing for Tx alignment. Changed to SITOR A & SelCal MPCY. (ANEE)
5198.5 Halifax Military 0020 USB w/CANFORCE ??? (AM)
5290 TBO: Turkish Navy, Izmir 1929 CW "vvv vvv vvv de tbo tbo tbo t23c t23c t23c" marker (MC)
5320 NDIS: USCGC Matinicus 2359 USB (WPB-1315) wkg NMK, Group Cape May, w/rdo ck, 2 xmitters. (RB)
5374 FDI22: FF Aix (assumed) CW Marker after recent chg of ID. (MC)
5375 EIYX (Irish Navy LE Emer) 1139 USB Clg C253 (Irish Navy CASA CN-235) No answer. Then clg "Zero A" (Irish Military HQ) for radio check, No answer. (ANEE)
5401 GS2 0017 USB w/B99, military sounding but unid. (AM)
5431.5 OSCAR 2300 USB w/heavy European accent wkg unid a/c w/interdiction ops...Bosnia-related (TB)
5680 Rescue Y63 1635 USB w/Sweden Air Rescue. RC. Rescue 137 1620 USB w/Kinloss Rescue. Enrt to Nottingham. SRG 125 1638 USB w/Kinloss Rescue. RC (AB) SMG37 1600 USB Plymouth Rescue said that if SMG37 diverted to Northolt they wouldn't be able to land at Trafalgar Sq. Plymouth is looking for alternatives. Kinloss Rescue USB wkg Navy177 Kinloss couldn't contact Navy 177 so transmitted blind. Rear cargo fire on 767, 40,000lbs over weight, routing at Glasgow. Kinloss repeated when Navy 177 answered call and said "Pan 767, believed 159 pob. A few minutes later Navy 177 was stood down saying plane had landed safely at Glasgow. (CH) Sweenden Air Rescue 0622 USB wkg SAREX MISSION 427. There is a german Sea King lifting at the site. he is on CH 10 or 123.10. Kinloss Rescue 0630 USB & Alpine 23, 22 20, 21 checking in for Wx info. Couldn't hear 20 or 21. Sweenden Air Rescue 0635 USB & SAREX MISSION 427. call the german on 123.10 please. he has more exercise information to pass. Alpine 95 0659 USB clg for Plymouth Rescue. Plymouth passed Wx for Princetown Area of Dartmoor. Kinloss rescue 1844 USB & rescue 177. Retasking 177. Kinloss rescue 1846 USB w/Rescue 137. ETA Aberdeen 20 mins. Kinloss Rescue 1847 USB WKG rescue 177. You are to proceed to posn: sheet 19 879606. Ben Alligin. Female w/injured leg. MRT are 30 mins away. 177 adv Kinloss that they are on their way. ETA 40 mins. Kinloss rescue 1849 USB w/Rescue 137. Adv 137 that rescue MU will be landing at the ARI helei-pad in 15 mins. Alpine 95 0659 USB clg for Plymouth Rescue. Plymouth passed Wx for Princetown Area of Dartmoor. MU 1330 USB clg in to Kinloss. 4 POB, Local area. 122 1331 USB clg in. enrt I.O.M from valley. 5 POB 2.5 hrs endurance. Architect 1410 USB w/test count 12345 54321 test out. Plymouth Rescue 1411 USB wkg Kinloss Rescue, radio chking. (SM) RESCUE 177 1952 USB wkg Kinloss Rescue, told Kinloss they had picked up the casualty and was proceeding to Raymore (Sp?) Hospital. (SW2) KINLOSS RESCUE 2255 USB wkg RESCUE 137 w/posn report (TB)
5690 Irish Air Corps C253 (CASA CN-235 a/c) 1315 USB comms w/Baldonnel (Military airfield nr Dublin) and EIYS the LE Eithne (Corvette) of the Navy re fishery patrol. "OA" Irish Military, Dublin 1121 USB to C253, (Irish Air Corps CASA CN-235) Msg regarding position of FGSM (CM-775341) a French Trawler. (ANEE)
5694.7 NOJ: 1240 CW de NOJ (EW) (USCG CommSta Kodiak, Ak -LOGS)
5696 53A 0211 USB w/CAMSLANT, adv airborne from Tampa. V7G 0000 USB w/CAMSLANT for flt. ops normal. CG 2115 0002 USB w/CAMSLANT for flight ops. CG 1504 0028 USB w/CAMSLANT for flight ops. S4JG 0056 USB clg any sta this net, radio check. CG 6017 0128 USB w/CAMSLANT for flight ops. CG 1717 0145 USB w/CAMSLANT for radio check. CG 2126 0250 USB w/CAMSLANT re SAR off Cape Cod. CG 1703 0257 USB w/CAMSPAC w/flt op's normal, posn 38.40N 121.34W. CG 6035 0320 USB w/CAMSLANT re law enforc. in clr. CG 6009 2356 USB w/CAMSLANT for radio check (AM) J7W: 0258 USB w/Camslant, reports door open light, dropped altitude & depressurized, on going from 0300z Commsta New Orleans also tried to contact J7W. J7W rep`t fixed wing, 7 souls on board, was adv by Camslant to approach homebase landward side via Saulsbury, thunderstorms etc in the area. (BZ) Camslant Chesapeake 0029 USB wkg CG 2112. Camslant Chesapeake 0103 USB wkg CG 1720 - 1720 reporting flight ops and posit. (DES) 29 Charlie 0244 USB wkg CAMSLANT w/flt

ops normal. CAMSPAC Pt. Reyes 0930 USB wkg Rescue 6036 qsy'd to 8.983 for radio check (EC1) CG 6014 2346 USB w/CommSta Boston, flt ops normal. CG 6035 0323 USB w/CAMSLANT Chesapeake accepting his guard -- other information passed to Panther. NMC: CAMSPAC Pt Reyes 0332 USB clg CG 6008, req flt ops & posn report. (KW2) CAMSLANT CHESAPEAKE 1953 USB wkg CG HELO 6041 w/posn report. RESCUE 6030 2000 USB has FM comms with Saint Petersburg & req CAMSLANT to secure their guard (MF) Navy 807 1113 USB wkg Culdrose Ops, updated eta min 40. ZIG 0846 USB wkg Culdrose Ops, informing ops of "impending arrival of T3H at 0935, 8 pob", is "ZIG" - GZIG a Royal Navy vessel?? CG 2115 2334 USB wkg ComSta Boston, 5pob @ 41.50N, 70.23W for local training. (PR) Rescue 1703: USCG HC-130H 0214 USB wkg CAMSPAC Point Reyes, NMC, re is airborne AirSta Sacramento on local trainer, req NMC take their air guard. NOS: USCG AirSta Cape Cod 0220 USB Ma, US "Cape Air" clg Rescue 2126 no joy. (RB)

5700 NIGHTWATCH 0459 USB wkg KINDLADY, DOCKHAND, good/readable (GG) BLACK-DOG 0537 USB wkg NIGHTWATCH 01. At 0544z, NIGHTWATCH 01 w/26-character EAM, coincident w/GHFS rotation of same. At 1502z, IMPROPER wkg NIGHTWATCH 01 w/attempted ANDVT comms; unsuccessful - each reported only hearing "tones." NIGHTWATCH 01 2058 USB clg SPACEACE. NIGHTWATCH 03 1412 USB clg NIGHTWATCH 01. Cochannel, a very weak callsinged station also clg NIGHTWATCH 01, w/nothing heard. NIGHTWATCH 01 0056 USB wkg QUANTITY (USN trained); moved to W101 at 0058z. At 1431z, very weak station clg NIGHTWATCH 01. Very weak station 1628 USB (could not make out id) clg LONGEVITY. NIGHTWATCH net active here, but all at very weak levels here. SYLLABUS 1428 USB w/26-character EAM, simulcast on 5700 & 8968. String taken from 1434z GHFS rotation of same. At 1638z, SYLLABUS tried and failed to raise NIGHTWATCH 01, so he adv NW01 in the blind that he was going monitor only for 1.5 hours, starting at 1700z. CLASSICAL 0200 USB wkg NIGHTWATCH 01, & entering the net. Still active at 0330z. ASTROJET 1231 USB wkg NIGHTWATCH 01 in clear voice & ANDVT. TAXPAYER (USN trained) 0547 USB wkg NIGHTWATCH 01, entering the net. AY4LUV... "current traffic" (and the string being repeated by ELMENDORF at h+21/h+40.) At 0600z, WAR46 wkg NIGHTWATCH 01 for a signal check and gone. (JH) WAR46 2258 USB w/request for signal check...no reply (TB)

5710 ANDREWS 2358 USB working a SAM flight that sounded sorta like SAM 51 or (??). Both weak, with high natural noise level. Hard to make out, pp to a DSN 856 number. (JH)

5711 CAPE RADIO 1159 USB radio-checking CGC Dauntless, KING 1, USS Taylor, Freedom Star, & Liberty Star. At 1245Z DOD CAPE advised launch was a go for 1300Z. At 1300Z, DOD Cape advised the shuttle was having APU problems, and at 1301Z DOD Cape adv all units an RTLF had been declared. USS Taylor was advised to prepare their helo for launch, but to keep it on-deck until advised otherwise, and CLEARANCE 1 was airborne. Main HF operations channel for STS-77 shuttle launch failure exercise. (TT)

5714 ARCHITECT 2300 USB w/wx report for various sites...thought this had switched to 5715??? (TB)

5716.5 FDG: French Air Force, Bordeaux, F 1957 CW "vvv vvv vvv de fdg fdg fdg ar" marker (MC)

5717 CANFORCE 306 0308 USB clg Halifax Mil, no joy (AM)

5753 Turkish Navy 0000 USB tactical net is active during local daytime w/switch to secure digital voice system. (CK)

5764 19E (RNZAF) 0800 USB working HOL and T87 - voice & data comms -RNZAF/Singapore Airforce joint exercise. (AB3)

5800 QUANTITY 0101 USB wkg NIGHTWATCH 01. (JH)

5844 Unid tracking net 1937 USB Leader is P9Q. Others 4SF, O9F, B1W, EE w/FF accent. Track reports (AB)

6502 TBB6: 0235 CW w/marker, clg TBDJ (AM) (Turkish Navy Ankara w/general call to any Turkish warship -LOGS)

6550 PBK: Dutch Kustwacht, 0518 USB Ijmuiden, HOL, id'ing as "Coast Guard Center" in EE wkg Coast Guard 03 adv unid callsign is on UHF only. Coast Guard 03: Dutch Kustwacht a/c 0526 USB att to work PBK, no joy. Dutch Kustwacht, 0527 USB "Savannah" relaying posn from CG-03 to CG Center. (RB)(JP)

6683 SAM 973 0524 USB wkg ANDREWS. Departed ANDREWS at 0505z, in the blocks at SHANNON at 1135z. ANDREWS 1929 USB wkg SAM 682. (JH) SAM

518: 2349 USB wkg Andrews for radio checks on radios 1,2 + 3. Looking for sec. freq. Andy says F465 (8040). SAM 300 2233 USB w/pp USAFE Metro, for wx LIRN (Naples) 0435z. (PR) SAM 376: USAF Special Air Mission a/c 0536 USB wkg Andrews VIP w/pp Andrews meteo, wx Budapest 0735z, pp State Op's re landing clearance. SAM 201: USAF C-20B tail 86-0201 1450 USB wkg Andrews w/pp Keesler Base Op's. SAM 682: USAF C-9C #73-1682 2159 USB Special Air Mission a/c, wkg Andy w/comms ck's. (RB)

6691 LORDSHIP 0610 USB wkg TABULATE in voice & data. SPACEHEAD (sounds like) 1327 USB clg BOOMTOWN, w/nothing heard and out. (JH)

6712 Offutt,USA 2052 USB EAM AYUXDX (AB) Ace 55 1757 USB wkg Croughton (C-130) pp Talon Ops: eta Andoya (Norway) 1900, req. meals. IFO 22 1740 USB wkg Croughton (C-21A!)pp DSN 480-8450 (EOC/Phantom): dep Zagreb 1015, arr LYBE (Belgrade) 1105 dep LYBE 1652 eta Frankfurt 1835. Same times for IFO23. Both IFO22 and IFO23 are on "change 1", ron Frankfurt. I was surprised to hear C-21's on an IFO callsign! Spar 86 1609 USB wkg Croughton pp Andrews VIP: -> 667, heard Andrews clg on 6817, no Spar 86. 6712 again w/Croughton: pp EUCOM (UCOM?):abt privacy key & VIP crypto. Call again airborne. (BH) GOLD 13 0559 USB wkg ANDREWS. ANDREWS 0630 USB with a 26-character EAM string at ANDREWS post-0600z h+30EAM 'repeat' time. String taken from the concluding string of a 20/20/26 character EAM set first bcst at 0433z/0450z by GHFS. ANDREWS 0630 USB w/26-character EAM, at ANDREWS post-0600 h+30 EAM transmission time, w/the string taken from a 0543z EAM cycle. 7JD 0117 USB wkg ANDREWS w/pp to COMSUBLANT CWO (id'd on the phone as something sounding like "broadcast supervisor.", "Supervisor" for sure; "broadcast" not so sure.) Exercise Esteem Highly Alpha activity. ANDREWS 0630 USB with 2 EAMs at ANDREWS' post-0600z h+30 "repeat" EAM transmission time. (JH) Cotam 3800 1450 USB To Villacoublay, one EVASAN on board. Reach 3643 1430 USB clg Croughton once. Cotam 1903 0835 USB from Dijon to Solenzara. FNY 5862 0830 USB. Cotam 2158 0840 USB Santa Maria to Evreux,"Bearn" squadron. Cotam 2470 0845 USB to Mont de Marsan. Cotam 2977 0900 USB to Brindisi. Cotam 2056 0845 USB from Newcastle to Inverness, than Dublin. Training flight. Cotam 1913 1009 USB from Lorient to Hyeres,crew 6, 37 pax, 3.7tons cargo. Cotam 3406 1517 USB Istres-Orleans. Cotam 3084 1530 USB Grenoble-Orleans. IFOR 50 1020 USB to Mostar. Blue 21/22 1150 USB to Mildenhall. Cotam 8C5 1435 USB N-262 from Metz to Bale, req to go to Istres for new unspecified mission, then back to Toulouse. Cotam 1918 0830 USB from Waddington to Orange. Cotam 1141 0743 USB to Istres. FNY 5341 0750 USB to Nimes. Cotam 1051 0930 USB from Roissy to Djibouti, crew 11,47 pax,2.4t cargo. Cotam 3045 0935 USB from St Dizier to Incirlik. Cotam 3155 0945 USB from Istres to Florence,"Bearn" squadron. Cotam 3200 1620 USB from Sarajevo to Istres,43 pax. Cotam 3042 1020 USB to Salon de Provence. (JP2) Reach 106LK: 2312 USB pp Hilda East + Metro. eta Rota 0030z, to OBBS (Bahrain), then to Mildenhall via OMAM (Abu Dhabi). (PR) Unid 1352 USB FF spoken, any help w/ID please. (French Air Force -LOGS) Offutt 1905 USB w/AYYBN...Offutt 2008 USB w/AYN22..4A6GN.. (SB)

6715 MacDill 2337 USB clg NW02, unfortunately, CANFORCE has RTTY being transmitted on DELTA 1 ECHO (this freq!!!). Again, NW02 is weak and barely readable. (BWS)

6717 SAM 300 2217 USB wkg Andrews, incoming pp from Commander X, about e-mail problems. At 2225 w/pp SAM command, dep 2215z, eta 0435z with DV2+2, moved to F731 (6683). (PR)

6730 ANDREWS 1607 USB wkg SAM 682. At 1725z, IMPROPER clg, & then wkg NIGHTWATCH 01, adv that IMPROPER was no longer 'monitor-only.' At 1727z, BIRDTRAP wkg IMPROPER. At 1733z, BIRDTRAP w/26-character EAM, simulcast on 6730, 6739, & 11244 (picked up by MCCLELLAN at 1737z.) SPAR 65 1840 USB wkg ANDREWS. SPAR 65 active for many hours. At 1908z,IMPROPER works NIGHTWATCH 01 & exits the net; NIGHTWATCH 01 requested that IMPROPER monitor this freq until landing. BIRDTRAP works NIGHTWATCH 01 at same time period. At 2058z, SPACEACE wkg NIGHTWATCH 01. TREEBEAM 1205 USB wkg LANDMINE, w/the freq id'd as 'six seven three zero.' NIGHTWATCH 01 in a monitor-only period. At 1353z, LANDMINE raised NIGHTWATCH 01. At 1403z, BANKBOOK enters the net, and asks NIGHTWATCH for current traffic, NIGHTWATCH 01 did not

answer. Coincidently, the GHFS popped up with 26-character EAM, & TREEBEAM popped up w/the same EAM. At 1406z, BANKBOOK worked TREEBEAM & acknowledged his traffic. ANDREWS 0551 USB clg SPAR 43. At 0601z, weak FF comms on freq. CLASSICAL 0157 USB wkg NIGHTWATCH 01. TAXPAYER 0547 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 2016 USB clg MEMORIZE. ATTRITION 1927 USB wkg NIGHTWATCH 01 to exit the net. (JH) NIGHTWATCH 01 2012 USB wkg PRESSCAR, fol by OVERLORD who reports NIGHTWATCH is fair & readable. NIGHTWATCH & PRESSCAR played channel tag on these designators X903,X904,W108,P381,S309,W114. Andrews 2044 USB w/pp for REACH 91117 to Charleston meteo & CP. Andrews 2048 USB w/pp for 6 YANKEE LIMA to DSN# 831-3115 NAU PUERTO RICO NAVCOMSTA. (MF) SAM 375: USAF Special Air Mission 0522 USB a/c wkg Andrews VIP w/signal ck's. Navy 676: 1935 USB wkg Andy to adv is on the deck unid loc w/DV3. SPAR 65: 2355 USB wkg Andrews w/pp PHANTOM w/ETA. (RB) Andrews (VIP) 0445 USB radio-checking NAVY 496 & maintaining comms w/them. At 0620Z, Andrews (VIP) also started maintaining comms w/SAM 20_ (either 202 or 203, I was half-asleep!), via a different transmit site. (TT)

6731 Andrews VIP: 0602 USB clg/wkg 54440 w/pp Andrews meteo re wx LQSA 0735z, later QSY to 465, 295 (nothing heard on either). (RB)

6738 ANDREWS 0444 USB as lead GHFS station, & off frequency, w/26-character EAM qrming it's multisite xmsn on 6739, probably keying ELMENDORF site. At 0448z, ELMENDORF w/FOXTROT broadcast (AME 48 UX). ELMENDORF remained on this freq for sometime past this, including using 6738 for ELMENDORF's h+21/h+40 "repeat" EAM broadcasts. (JH)

6739 Albrook 0034 USB clg ALPHA HOTEL FOXTROT 5 Unit 2. A few minutes prior to this trans.,and on 11175, Albrook told AHF5 to meet them on 6739. Anyone know who these 3 letter, and 1 # c/s are? (BWS) Offutt 0031 USB answering unk sta clg, no response (DES) NT 0800 USB clg Lajes, then Mainsail as NT4W then Elmendorf, no joy on all. Op was screaming at top of lungs like it would help. DOORPLATE (sp'd phonetically) 0805 USB wkg McClellan for NW01 freqs P=3DW100 S=3DS304 Heads up Jeff. NT4W 0810 USB wkg McClellan for pp to HOG for ops normal, still yelling :-) (EC1) Offutt 1440 USB w/"For Story, 5UJHRC...Offutt, Hickam 1517 USB for THRICE 5UPBUM...same at 15:18. REACH 50254 0410 USB clg McClellan (EG) THULE 0145 USB w/20/20/26 character EAM set taken from a 0130z+/- GHFS rotation of same. Starting at 0221z, ELMENDORF caught w/'repeat' broadcasts of this 20/20/26 character set at h+21/h+40 through 0340z. At 0241z, ELMENDORF w/FOXTROT broadcast echo. At 0355z, ALBROOK clg MCCLELLAN w/an "all frequency request;" message to MCCLELLAN: "Station does not have DSN capability." (On 15016.0 at 1534z 13 Apr 96, ALBROOK worked MACDILL advising MACDILL to call D3S on 11175 for pp to a DSN 564 number, as ALBROOK is not DSN capable). At 0419z, REACH 110XX wkg LAJES w/pp to HILDA EAST trying to get hours of operation for GFLL. "107" (probably REACH 107XX),just ex GFLL, popped up on freq & adv REACH 110XX that GFLL was now open 24 hours; and passed wx for GFLL. REACH 110XX was going to FREETOWN (GFLL), then shortly departing for GOOY (DAKAR.) Evacuation flights for U.S. nationals fleeing Monrovia, Liberia. REACH 129XX 0232 USB wkg LAJES. At 0452z (and other times as well), HOIST 07 wkg LAJES w/various pp's regarding REACH ###XX flights, & chatter about Canary Island airspace & air routes. THULE 0145 USB with two 26-character EAMs (one taken from a GHFS 2355z rotation). Minutestamp is apparently a replacement time for one of THULE's h+04/h+27 'repeat' EAM times. SPAR 43 0614 USB wkg THULE. GLASSFULL (very strong, USN trained) 0354 USB wkg OFFUTT, getting working freqs for NIGHTWATCH 01: W105/X903. NIGHTWATCH (no suffix) 0415 USB working ANDREWS. ANDREWS requested that NW01 check ANDREWS on "Seven niner one nine five." EQUALITY 0445 USB clg MAINSAIL for a radio check; answered by LAJES. PACAF 01 1252 USB wkg MCCLELLAN, w/pp to ANDREWS re the use of F267. FISHPOND 0615 USB wkg HICKAM w/pp req for working freqs for NIGHTWATCH 01. At 0627z, FISHPOND works HICKAM, and places a pp to a DSN 339 number (OPCON.) At 0643z, FISHPOND raises HICKAM and tells HICKAM that FISHPOND is responding to an 'all freq request' of ANDREWS (unheard here); HICKAM out. LD585 0527 USB wkg THULE w/pp to DSN 831 number at ROOSEVELT ROADS, w/"ops normal" message for BLUESTAR. LD585 was having problems raising BLUESTAR via his other channels. TURBO 52

HEAVY 0454 USB clg OFFUTT; raising THULE (with remote site key-down tones) w/pp to ALTUS AFB COMMAND POST. ANDREWS 1228 USB as lead GHFS station, with 20-character EAM "FOR ABSTINENCE". REGISTER 1928 USB w/a number of EAMs, // on 6739 & 11244, all leading the GHFS broadcast of same. ANDREWS 0340 USB as lead GHFS station, w/20-character EAM "FOR TACAMO LANT PRIMARY." At 0435z, ANDREWS w/a 20/20/26 character EAM set over a 10 minute period. At 0521z, a very weak ELMENDORF up w/the concluding string of the 0435z+ 20/20/26 character EAM set; and repeating it at 0540z. HOTCAKE 0536 USB wkg THULE wi/pp to a DSN 342 number id'd as "VQ4 DET OPCON." Some brief technical chatter, but patch was not successful, so HOTCAKE broke off stating he would complete the call by other means. OUTPOST 1048 USB wkg MCCLELLAN w/pp to a common DSN 339 number id'd as VQ4 OPCON. (JH) Navy LV660 1615 USB clg Mainsail. Reach 518XX 2205 USB 40638, to Freetown, diverting to Moron,Aviano or Rota because of EGT problem. Cleared to Rota by Hilda east. (JP2) Incirlik GHFS 2043 USB 5UCPBM...after Lajes GHFS. REACH G5 2116 USB clg Mainsail -radio check. REACH 8V3 (C17 # 30603) 2233 USB wkg unid w/pp Lajes CP, ETA 0145z req. room res. 7 crew (2 f), cargo and mail.+ hazardous cargo type 9, 2.1, 8, 3, 2.2 (lithium batteries, ?, Lead acid batteries, flammable liquid, compressed air. JT773 2305 USB clg Mainsail for pp, ETA 0100z req power cart & 20,000 lbs fuel. Also requires maintenance freq. but Lajes maint. radio is down. Request wx for Rota. EYETOOTH 0335 USB wkg Lajes, req NIGHTWATCH frequencies, Lajes says primary X210 secondary S312 and NIGHTWATCH is up and running 32500. NOTRUMP 0520 USB clg Lajes who req. QSY to 8968. REACH 504XX 0622 USB wkg unid w/pp Hilda East req fuel for 504XX and 503XX. RAFAIR 4K04 1041 USB clg Architect, req. TAFs for LCRA LCLK LCPH HECA. Architect 1320 USB clg 9UD, req QSY to UA & call Neatishead. ARCHITECT 1330 USB Airfield Colour states. Navy LV660 1613 USB clg Lajes, then Mainsail, w/request (no response - massive signal here). IFN 17- 1714 USB wkg Architect qsy to 9031 obscured by 2 simultaneous EAMs to 6ABW form Lajes and Incirlik. MN800 2220 USB clg Mainsail, Incirlik answers, for meteo pp. AIRBACK? 60147 2326 USB clg Lajes no response. ASCOT 5917 0035 USB clg Architect, req wx. SN147 0230 USB clg MacDill, who req QSY to 11175. ADMO 0300 USB wkg Ascension, pp to RAIDER, posn 1511N/07023W, course 235 deg sp 11.4 kts seastate 3 dir E. w.speed 15kts dir E closest ref point Aluva? range 157NM bearing 173 eta ? 1530 25 April based on 10.5 kts dep. Panama 27 April 0600 hrs -arr Belize city 1 May- dep. 2 May pm Belize city - arr. Porto Cortez Hondo. 2 may pm - dep. Porto Cortez Hondo 3 May - arr Panama 7 May- Rockage 8 May. (see 11175 for ID -LOGS) REACH 50235 0300 USB req pp AF? (not spelled) 466 (unheard) 0316 USB wkg Lajes, looking for VIP? pp to Andy who req come up on 957 then 920 upper. Andrews putting a directional antenna on 920. Andy drops out,Lajes req QSY to 8968. (MH2) ASCOT 3387 2230 USB wkg Architect for pp Brize Ops (RAF Brize Norton) eta Brize 0100z, then rq go to Edinburgh. Wx for both taken. Magic 89 1135 USB wkg Architect. Architect asks if '89 has an extension at High Wycombe - no. Listening on freq. McClellan 2250 USB w/EAM "For TORCHBEARER, 5UGIZP (+14)". (PR) Reach 70029 2339 USB wkg Thule, Req.Wx KNHZ for 0230 (Brunswick NAS). (RC) USAF MCCLELLAN wkg Reach-14FH asking about "MHSC' and "MHLF" both in Honduras i believe ????? (SB) ABOON 63 0419 USB reporting Operations Normal, negative-relay to Hickam GHFS. BASE DRUM 0452 USB calls MAINSAIL & is answered by Thule GHFS. BASE DRUM wants the current working freqs for NIGHTWATCH. BASE DRUM had some interesting background noise, like he was in an APC or tank! BASE DRUM muttered that special word only used by "USN trained" operators, interrogative! ;) TURBO 68 0434 USB clg Offutt, req "traffic." Offutt GHFS finally heard them, and read off the current status header. Turbo 68 didn't have that EAM, so Offutt broadcast the 26-item message to 68. TURBO 68 the adv operations normal negative relay & thanked Offutt. (TT) THULE: 2155 USB 7T6, time 55, auth. JU. (PR)

6753 Unid: 0938 USB definite Australian net 5WJ clg 1ZT said go to night freq. Who is this? (EW)

6754 Trenton Military 0221 USB giving out wx rpts for various locations. Very strong signal (DW3)

6758 MKL: RAF Pitraevie, G 1505 CW TAFS (AB)

6761 ALTUS COMMAND POST 0217 USB active on freq. TURBO 18 active on freq. At 0228z, ALTUS COMMAND POST clg _____ 83 (could not make it out), then "any ALTUS aircraft." From 0230z, GASER 53 clg 83. (JH) Exxon 13 0805 USB clg Exxon 11/12. Casey 01 1345 USB in Gatwick. (JP2)

6779 DRAT: FGS Emden (F-210) 0020 USB German Navy Frigate, concluding RTTY run w/DHJ-59. DRDV: FGS U-24 (S-173) 0028 USB German Navy 'untersee-boot' attack sub, clg/wkg DHJ59 w/"ZBO, 1 priority" RTTY msg to send. (RB)

6818 F20 1235 USB wkg F10B sending a message in RTTY...after the msg was done F10B replied that the vehicle belongs to ____ Squadron and that he should bring it right over. An obviously annoyed F20 told 10B to watch his COMSEC & use callsigns & not names. Both units had Scottish accents. (TB)

6867 Foxtrot 1324 USB clg Echo Whiskey. (JM)

6868.5 Mike 1324 USB wkg Papa and Echo Whiskey establishing comms. (JM)

6986 SAM 29000 0434 USB pp via Andrews. NIGHTWATCH 01 0434 USB wkg Andrews (EG) SAM 29000 0434 USB working ANDREWS. Lots of "Grid" talk. At 0434z+, NIGHTWATCH 01 wkg ANDREWS w/brief signal check. (JH) AIR FORCE 1 1155 USB wkg Andrews, reported wheels up at 1155Z [heard at about 1217Z] and ETA [final destination] at 2055Z [I think]. AF One tried to establish secure comms [or so they said on 6986 kHz] but w/no luck. 29000 1238 USB wkg AF1. (TR)

6989.5 AAA9ED: Army MARS 0230 USB w/AAA9EC et al in Army MARS Peach Net (AM)

6993 SAM 202 0251 USB working ANDREWS. (JH)

7535 SESEF NORFOLK 1944 USB conducting radio tests with the USS CARTER HALL. NORFOLK SESEF 2017 USB conducting radio tests w/USS NORMANDY on HF7 (MF) NYKN: USS Yorktown (CG-48) 1549 USB wkg test of HF xmitters. NBRK: USS Arleigh Burke (DDG-51) 1615 USB w/URT-23 HF rdo ck's. NIEY: USS Bold (T-AGOS-12) 1655 USB clg/wkg SESEF re req they go green, & into ANDVT. (RB)

7592.5 FDI22: French Air Force, Aix 1944 CW "vvv vvv vvv de fdi22 ar" marker (MC)

7651.5 Y8M 2246 USB wkg E4J att to set up HF data frequency...sent once and 4J said to try again as he forgot to switch the envelope... tried again and 4J replied that he did not receive cryptolock (TB)

7909 Unid: Military 2338 USB ANDVT tfc. (RB)

7927 SAM 202 1226 USB w/Andy on 920u. QSY to 094u for sec. freq checks (they are both heard on 9017 doing checks, but are lost in the noise from a BC stn on 9.020). SAM 202 1237 '202 wants pre-flights for their flight from EBBR (Brussels) to KADW (Andrews). Andy passes freqs as 400u/752u (prim./backup). (GT)

8040 SAM 518: 2350 USB heard clg Andy + vice versa but no contact. So they try F211 (11056) later on 11056 Radio checks again - but only Andy heard. (PR)

8122 RAN Cairns 0329 USB control to RAN Darwin Control re:crewman going w/Qantas to Sydney then onto Nauru and Tarawa. LAVUAN 0338 USB to RAN Cairns Control. Who is LAVUAN please. (SB) (probably HMAS Labuan L-128, VKDY, a Royal Aust. Navy Landing Ship -LOGS)

8240 NCUI: USCGC Baranof (WPB-1318) 2249 USB wkg NMN re changing rdo guard to them from NMG, to maintain 4 hour voice sked. (RB)

8297 ADMO 0206 USB wkg Raider, Raider vy weak. Loading instructions & concerns for Honduras and Belize. Any idea who these stas are? (DES) (see ID in 11175 -LOGS) NFXP: USS Dolphin (AGSS-555) 0350 USB wkg USS Juneau (LPD-10) w/course & speed info, Dolphin is a Auxiliary Research Sub and one-of-a-kind in the USN. At 0412 wkg FORTITUDE, unid unit. NROP: USS Juneau (LPD-10) 0355 USB wkg USS Dolphin w/re some sort of tests. (RB)+(JP) AAFA: USAV SP4 James A. Loux (LSV-6) 1612 USB clg AAC2, Harbormaster Ft Eustis, Va. (RB)

8382.5 Unid, Russian Naval vsl?: 0212 CW clg RIT, Russian Navy, Vaygach, no joy. (RB)

8494.9 S: Naval channelmarker Arkhangelsk,RUS 1923 CW. (AB)

8495 C: Naval channelmarker Moscow,RUS 1923 CW. (AB)

8528.5 EBA: Spanish Navy Madrid 0903 CW CQ (EW)

8551 CTP: NATO Lisbon 1801 CW (HL)

8646 VTP: Vishakhapatnam Naval R 1627 CW w/VVV. (PvdE)

8968 Air Force 2 0616 USB wkg "2028", later at 0700 USB Andrews AB w/ 5UXQXB..."message follows,stand by" (AW) Greep 31 0120 USB wkg

Andrews for pp. Andrews 0127 USB wkg Spar 76 qsy'd to discrete of 9016 for pp to CP for update. Occasion 0237 USB w test and five count. Greby 32 0238 USB clg mainsail, Hickam responds for ops normal report (EC1) NEIGHBOR 0313 USB wkg Elmendorf radio check (EG) OFFUTT 2048 USB, as lead GHFS station, with 142-character EAM: GKQZ7M.. 4KR 0617 USB clg ANDREWS, raising THULE, w/pp to COMSUBLANT CWO for a brief "exercise esteem highly alpha" message. After receipt of his TOR, "I relinquish the net", and was gone. (JH) Arnet 64 1330 USB C-130 to Lajes, no pax, no cargo. JM 099 2150 USB contacting DSN 727.....Otis Base, going to Rota. (JP2) Spudler 0004 USB clg any station--no joy. Albrook & McClellan 0348 USB EAM's at same time. Lajes 0353 USB EAM. (KW2) NIGHTWATCH 01 1923 USB wkg RECTANGLE, 01 advises he is on S312 & X904. NW 01. Andrews 2102 USB w/pp for 7 LIMA 34 to Brunswick meteo(7 L 34 is a BRITISH NIMROD). Lajes 2106 USB w/pp for ASCOT 5925 to Rogers meteo (MF) Navy VR 647 0105 USB wkg Lajes for pp Navy Andrews (DSN 858-2740) eta Andrews 0210z. Reach 00467 1352 USB wkg Lajes for pp Ramstein AMCC + Metro. C-5, eta Ramstein 1545z 73pax inc 2 DV-7. One engine to offload. TS 45: 1800 USB wkg Thule for pp Euro DSN 450-5070/1 - Navy Duty somewhere (Keflavik ??). "1 extra group to pass - V2P time 1755z", Duty responds with "Copy, QSL @ 1804z". Reach 42473: 2345 USB wkg Lajes. pp Hilda East + Metro. eta Moron 0215z, currently @ 41N 33W. 2 pax, 39000lb thruload. (PR) OKUM 11: 1712 USB wkg Andrews w/pp 342-3466 DSN re has been out of contact w/"GIANT KILLER" (USN FACSFAC Virginia Capes) for over 1/2 hr. (RB) M505RF 2145 USB wkg Lajes/p/p to Rota ETA0100 asked if they had GDSS capability ? If not to call TACC for next mission. M13XX 1630 USB wkg Lajes/p/p to Metro.req.wx for Morone ETA/1730 (RD3) Lajes 2009 USB w/AYRBW2Z..4A6GN...same msg as 6712, different header. KING 64 2020 USB wkg Lajes, pp to King Ops. Lajes 1836 USB For ORGANGRINDER & BAMBO. 67BU3...(SM) KING 74 2023 USB wkg Lajes, pp to ? reported ops normal, 15 minutes out from Lajes. (SW2) AIREVAC 92 1113 USB w/pp to DSN 945-6802 via Hickam Global. 92 advised Kelly Base Operations their ETA was 1225Z, and that the flight surgeon req that the ambulance from Wilford (Wilford Hall Medical Center) drive right up to AIREVAC 92 once they were parked, and that it would be transporting one litter patient, a neonatal team of 3, and the parents (of the patient, not of the neonatal team!), for a total of 6. (TT) SALESMAN 2253 USB wkg ANDREWS "Interrogative - Do you have NW freq ?" S311 (11494) - NW down for next 30 mins. (PR)

8971 BLUESTAR 1918 USB wkg RED LANCER 08. BRAVO 1 MIKE 1923 USB req radio check from SUN KING,no joy. BLUESTAR 1957 USB re did RED LANCER 08 copy him on the 101. BLUESTAR 1840 USB receiving surface contact message with SLUG ONE. BLUESTAR then told SLUG ONE his station should be Detroit & Cleveland south of the islands. SLUG ONE 1850 USB ask BLUESTAR which station he should maintain Detroit or Cleveland, BLUESTAR says somewhere between the two. (MF) ZOQ 2211 USB wkg "OGN" re has message been passed on, No, "OGN" req dest. DSN.", "ZOQ" says DSN 450-xxxx. USN Keflavik ?? Trident 752 2150 USB wkg N1R relay to V6D - all heard by me. '752 asks if "Pinstripe 753 is airborne", V6D says "'753 a/b @ 2130z". (PR) BLACKHAWK 01 1104 USB contacts BLUE STAR, adv unable to reach HERSHEY via radio, and requests that BLUE STAR contact HERSHEY via land-line or 101 Net (SATCOM-based JOTS net) & advise them that BLACKHAWK 01 was airborne at 1100Z. Later, BLUE STAR contacts 01 and asks if they have a 101 Net callsign for HERSHEY!! 01 advises that HERSHEY was 01's home plate. BLUE STAR responded that they didn't know who HERSHEY was!! BLACKHAWK 01 & BLUE STAR went green (ANDVT) & 01 probably told BLUE STAR that HERSHEY was NAS Key West, Florida! FIGHTING TIGER 741 0126 clg N1R & asking N1R to relay message "Spare Group 3" to callsign 1ZG. N1R did so (via another circuit) and gave 741 a QSL time of 0130Z. (TT)

8975 Striker-375 0248 USB RAAF Townsville P-3 Orion of 10 sqd RAAF. TROJAN-028 0346 USB RAAF DARWIN (SB)

8983 CG 2131 0201 USB w/CAMSLANT for flight op's 30.18N 78.49W (AM) CG 6016 HH-60J Helo 1541 USB securing guard from CAMSLANT, Chesapeake, VA. CAMSLANT 2139 USB wkg 1600, attempting to establish comms, no joy. CAMSLANT 2104 USB wkg 1606, no joy. D2W 1631 USB wkg CAMSLANT reporting flight ops normal (DW2)

8992 Navy G?2 14343 USB clg Macdill (EG) Ascension 0330 USB clg ADMW, no joy. (KW2) SAM 518: 2218 USB wkg MacDill GHFS w/pp to Andrews VIP re lost them on F287. AAEI: USAV Churubusco (LCU-0213) 2239 USB wkg MacDill GHFS w/pp AAC2, Harbormaster, Ft Eustis, Va re posn/status report. KINGFISH 99: 2332 USB wkg MacDill GHFS w/pp to DSN 576-2227. (RB)

9011 NIGHTWATCH 01 2304 USB clg Croughton GHFS no joy. (BWS)

9011.4 RAZORBACK 2245 USB wkg GOLDEN GRIZZLY coordinating "tonight's event." Sounds like tracking-net type activity. Said visibility was "6 nautical miles." (JJ) (GOLDEN GRIZZLY is a USN static call suspected of being the USS California CGN-36 -LOGS)

9013 AWACS activity: 16389 USB DARKSTAR NOVEMBER; BANDSAW JULIET;DRAGNET SIERRA. SIDECAR USB wkg 9WT; 4HH; & YOU (YANKEE ZERO UNIFORM). (JH)

9014 RAYMOND 07 1723 USB clg ONE ONE. (JH)

9016 MACDILL 1807 USB wkg BIRDTRAP w/voice & data. BIRDTRAP very active today on the nets and on GHFS discretes with data transmissions. MACDILL 1616 USB clg MCCLELLAN. MCCLELLAN and MACDILL 1547 USB clg each other, but not hearing each other. (JH)

9017 MacDill 2343 USB putting NW01 through to NW02. NW01 adv they would meet NW02 on X-904 (this same freq.) and would maintain this as a line for the watch officers. (BWS) WAR46 0330 USB wkg ? moved to X-209. NIGHTWATCH 1 0358 USB wkg ? & QUANTITY about copy of 5UGVC. NEIGHBOR 0358 USB wkg QUANTITY went to green comms (tone followed by screech) then back in the clear, test OK. (EG) SPACEACE 2101 USB clg, but not hearing NIGHTWATCH 01. BRUSHWOOD 1455 USB wkg NIGHTWATCH 01, & entered the net. At 1458z,NIGHTWATCH 01 worked BANKBOOK. Active net today: NIGHTWATCH 01;TREEBEAM; LANDMINE; BANKBOOK; BRUSHWOOD. ANDREWS 2044 USB wkg SAM 376. Maybe other SAM flights on freq as well during local afternoon. NIGHTWATCH net 0226 USB NIGHTWATCH 01 wkg "___" (could not make it out) with NIGHTWATCH 01 responding to a data request that he (NW01) was currently at "saturation." NIGHTWATCH 01 1747 USB wkg unid station (could not make it out.) The NIGHTWATCH opr worked a later-in-the-day shift a week or so ago. TRADESMAN 1418 USB clg NIGHTWATCH 01, with no response. CURLYTOP 0107 USB clg/wkg NIGHTWATCH 01 for a signal check. REGISTER 1810 USB clg NIGHTWATCH 01, & wkg unid station (could not make it out), and going through challenge process. The weak station may have been exiting the net, and REGISTER was acting in the place of NIGHTWATCH 01. At 1820z ANDREWS wkg EXECUTIVE ONE FOXTROT. At 1841z, ANDREWS advised E1F that CROWN wanted to know if they were up on NATIONWIDE. Negative; use other circuits, "do you want the numbers?" Told CROWN to use INMARSAT and/or AIRPHONE "for a/c 375." ATTRITION 1924 USB clg NIGHTWATCH 01. REGISTER 2015 USB wkg MEMORIZE. (JH) NIGHTWATCH 01 0142 USB radio-checking TANK CAR clear-voice & ANDVT. 01 handed-off primary NCA ABNCP mission to 02 at 0354Z, at which point they flip-flopped callsign suffixes. (TT) SALESMAN 2340 USB clg NIGHTWATCH 01. "Interrogative - how copy my traffic ?". EAM 67V3YF repeated for NW01. NW still v. weak. (PR)

9027 ANDREWS 1345 USB wkg SAM 201. (JH) SAM 201: USAF C-20B tail 86-0201 1516 USB wkg Andrews w/pp for wx, active runways at unid loc. At 1525 w/pp ROYAL CROWN who adv them to come up ch.9 on 1174. (RB)

9031 Ascot 4806 0923 USB wkg Architect (C-130, XV200) dep Bruggen 0855 eta Akinci 1400 selcal AJCL standard relay K. The spokesman spelt the destination AKINCI, he had no ICAO identifier at hand, I checked my recent DoD flip, it says Akinci is LTAE, when I looked that up in the ICAO doc (from 1992) with these ID's it came up with Ankara/Murted. Changed names since then? Habit 1521 USB wkg Architect pp .... ext 7088, pp unworkable. RFR 3C formation 1308 USB wkg Architect (Wessex, 60 Sq.?)a/c weak. Strange, usually there are to figures following the '3C' bit...Ascot 1511 1352 USB wkg Architect (VIP) no joy. S9W 1347 USB wkg Architect (Nimrod?)Italian wx (BH) Ascot 4915 1025 USB testing Selcal on AJ-BD. IFN 90 1025 USB Lyneham to LFSD, then Split, Selcal AH-GK. IFN 35 1025 USB testing Selcal on CF-DE. (JP2) IFN 80 1443 USB wkg Architect. Departed SPLIT eta Aviano 15:45/50. Selcal = AJ-BG. IFN 55 1301 USB & Architect. Wanted wx for Bruggen. (SM)

9034 Tracking net 1215 USB mixed American & British accents. All using phonetic c/s's (India, Golf, November, etc). I WUNder if this might be part of the exercises going on around the mid- atlantic states.

(MD) Unid net 1801 USB really busy at this time, sound like JTIF op's. (PC) Link 11 Net: 1645 USB w/PAPA, INDIA, IS, IG, others, w/some British accents relaying track ID's in Link-11 coordination net probably related to U.S./British Combined Joint Task Force Exercise 96/Exercise Purple Star 96 due to British voices hrd. (RB) INDIA, PAPA, DELTA, INDIA GOLF, KILO etc 1622 USB w/multinational Link-11 voice coordination net. At 2234Z, RENEW 51 contacted W0T and advised "200 at 30 nautical miles." (TT)

9043 USS Taylor 1121 USB radio-checking DOD Cape, KING 1 calling HAWKEYE, w/no answer. DOD CAPE adv KING 1 that HAWKEYE would only be up if "we went into mode (code?) 8." USCGC Dauntless called USS Taylor & requested to know Taylor's fuel pressure. Taylor adv 45 PSI. At 1135Z DOD Cape adv all stations that there was a launch delay of 45 min to an hour. At 1154Z, DOD CAPE contacted KING 1 and advised them that between 0900 & 1000 local, two Navy a/c would be dropping explosives into the water in the vicinity of (USS) Taylor, and that the explosives would not be detonating until around 1100L. The two USN a/c would be using callsigns (sic) NIMROD & WATERBUG, & that they would be monitoring HF 4805 & 2716, & UHF 383.4 + 310.2MHz. 1159Z CAPE RADIO calls Liberty Star & Freedom Star, and advises them to QSY to 5711, & that they'll have a separate net there for them and KING 1. (TT)

9120 Executive 1 Foxtrot 0034 USB wkg Andy w/pp SAM COMMAND re is airborne. (RB)

9320 ANDREWS 0525 USB wkg an unheard SAM 973. (JH) SAM 021 2308 USB wkg Andrews on F616 w/pp Howard meteo. (JJ)

10767 AJO: USAF Incirlik, TUR 1100 ISB w/voice on LSB, VFT-6028 on USB, wkg NSY Sigonella, Sicily. (JD2)

10780 King 63 2235 USB wkg Cape Radio for pp Rescue Ops (854-8863), '63 discovers radios are u/s at Ops - will call again later. (PR) CLEARANCE 21 1730 USB clg CAPE RADIO for a radio check "on net 6." No answer. Sometimes it sounded like 21 was calling himself CLEARANCE, other times it sure sounded like BARRACKS! (TT)

10972 NSY USAF Sigonella, Sicily 1100 ISB voice on LSB, VFT-6028 on USB, wkg AJO, Incirlik, TUR. (JD2)

10996 FDI22: French Air Force, Aix 1603 CW "vvv vvv vvv de fdi22 ar" marker (MC)

11056 SAM 973 0703 USB w/Andy w/pp SAM Command to report their arrival at 0700z, after flying 285 miles. Sec of State Warren Christopher flying from Damascus to Tel Aviv. (GT) SAM 202 2221 USB wkg Andrews for pp DSN 842-xxxx or a commercial no. re eta destination 1810L. (PR)

11059 IFO 40 1422 USB w/Andrews GHFS, w/pp to Ramstein Metro for wx at LHBP (Budapest) at 15.30. Odd freq for a non VIP flight, probably being used as an Andrews GHFS discrete. (GT)

11059 Spar 66 1707 USB w/Andy, req pre-flights, given 117u/290u/365u as prim./sec./backup. They reported that they departed UTTT (Tashkent) at 1537, & reported their arrival (didn't say where!) as 17.14z. (GT) SAM 201: USAF C-20B tail 86-0201 1629 USB wkg Andrews w/signal ck's on F365. (RB)

11118 SAM 28000 1457 USB w/Andy. radio checks. SAM 28000 1613 USB (28000 is AF1) AF1 to CROWN, then wants connect to CARPET(?). After failures, gets thru to ROYAL CROWN (16.32z), gets patch to CROWN. AF1 calls CROWN 'AFOC', reports departed Moscow at 16.05z, eta KADW 02.00z. SAM 28000 1830 USB AF1 and Andy QSY to 461u. (GT)

11175 Reach 30604 2225 USB wkg Andrews w/pp. Offutt,USA 2221 USB EAM AYERFD. QUID 93 2229 USB w/Andrews w/pp. Reach 533XX 2212 USB w/Andrews, pp to Mildenhall. Offutt,USA 2219 USB EAM AYNPSL. (AB) QUID 93 1933 USB arrival Mildenhall 2320 GMT with injured man on board w/pp through Incirlik. (AD) TURBO 91 0007 USB w/Ascension, pp McConnell CP. SAM 206 1557 USB w/ALBROOK, pp ANDREWS VIP. ADMO: 0300 USB w/ASCENSION, pp to RAIDER (AM) (ADMO=USAV El Chaney LCU-2012 -LOGS) Reach 119 1038 USB wkg AGA2 Hickam AB w/posrep (AW) IFO 60 0941 USB ->13200. Reach 7F5 2139 USB5 Ascension pp Rota PMSV, pirep 39n 6.06e (a/c unr). Reach 90017 2144 USB wkg Ascension (C-5A) pp Dover PMSV wx Westover + en route turbulence (a/c unr). Shuck 18 2148 USB wkg Ascension nh (a/c unr). Raider 57 2156 USB wkg Ascension pp Lobo (a/c unr). EV18 0905 USB wkg Incirlik (US Navy?) pp DSN 624-5286 (Sigonella PMSV): req wx Sigonella 1430 and current -> 15016 ->11244

(Croughton). Reach 520BG 1104 USB wkg (C-141) pp ...., C-141, tailnr. 60178 eta 1245, req 65k fuel. IFO 02 1116 USB wkg Croughton (IFOR) pp Ramstein CP, DSN 480-2121: arr QTZ 0928 dep 1025, eta Ramstein 1230, contact the 86th AMS to arrange transportation for 3 litter- and 9 ambulatory patients. Any ideas on QTZ? Could it be TuZla? Snoop 56 1339 USB wkg Incirlik (C-135, 55 W) pp Banter, Incirlik didn't know Banter, pp DSN 238-2733 (95th RS): relay to the recovery officer (name) eta 1540, ops normal. Reach 50009 1527 USB wkg Incirlik (C-5B)pp PMSV wx .... 2100: We're over Saudi Arabia, do you really want a pirep? Reach Z1 1528 USB wkg Incirlik (C-141B)pp Hilda East: tailnr. 60161, etb OEDR (Dahran) 1800, A2 nr 1 VOR, nr 2 HF :-((, pp Hilda PMSV wx OEDR, OBBI (Bahrain), OERK (Riyadh, King Khalid) 1800. Reach 3V1 1528 USB wkg Incirlik (C-5A) pp Hilda East: C-5 tailnr. 90010, inbound Aviano for quick turn, then Lajes, confirm ron Lajes: yes. pp Hilda PMSV wx Aviano 1730. pp Aviano CP: same, now sayin ron Aviano! Reach SA27 1558 USB wkg Mainsail no joy. strange c/s. Reach 101DT 1619 USB wkg Croughton (C-17A) pp PMSV wx Ramstein 1945, pirep: C-17 fl310 3545n 2215e. Reach V5 1641 USB wkg Croughton pp USAFE PMSV wx Sigonella 1900. pp DSN 624-5578 (Sigonella ATOC): eta 1900. Reach 100M 1051 USB wkg Incirlik pp Ramstein PMSV wx Frankfurt 1255, also wkg Andrews, Ascension ->15016. Reach 7F8 1036 USB wkg Incirlik (C-141B, 67-0025)pp Sigonella ATOC: eta 1305. pp PMSV, wx LICZ, pirep: C-141, fl350 (couldn't read position, too weak). Reach 7F8 1036 USB pp Rota ATOC: eta 1800, tailnr. 70025. Reach 00535 1036 USB wkg Croughton (C-17A, 90-0535)pp USAFE PMSV wx Ramstein 1315, pirep: C-17, fl270,4346n 018.09e, coming out of Lajes. Airevac 10E1 1329 USB wkg Croughton (C-9)pp 86 AME: abt patient transportation, eta Rota 1415. Reach 81411 1323 USB wkg Incirlik (C-141B, 66-0149)pp Hilda East: tailnr. 60149, eta LTBA (Istanbul) 1420,A1, user req. dep. LGAD (Andravida, Greece on the 31st of march: call again later. pp PMSV wx LTBA 1400. Reach 11S2 1809 USB wkg Ascension (C-141B)pp Ramstein CP: dep Aviano 1735, eta Ramstein 1945. pp PMSV wx ETAR 1940, pirep: C-141, fl350, 45n 11e. Titan 82 1829 USB wkg Ascension (C-130, USMC)pp Lajes PMSV, wx Lajes 2100. Reach 4W6 1657 USB ...nothing heard. Reach 7W8 1701 USB wkg Croughton (C-141B)pp Ramstein ATOC (nh). pp USAFE PMSV, wx Ramstein 1830. Pirep: C-141 4506.2N 1222.5E. Flash 04 1729 USB wkg Incirlik (MC-130E?) pp Dhahran PMSV wx 1830. No pirep (BH) Unid DOOM # (B-52H out of Barksdale AFB) 1359 USB w/pp via unid to MUDBUG Control (Barksdale). MUDBUG advised DOOM they could stay at Dyess AFB overnight. The reason, "the B-1's are grounded today". NIGHTWATCH 01 2315 USB wkg NW02, adv meet them on W-110 (15449 USB). HOBBY 71 2140 USB w/pp to FOXTROT at DSN 597-XXXX. FOXTROT advised "you are good to go at Mansfield ... AnyWUN know who HOBBY is? (reported as C-130E from 403rd AW/815th ALS, Keesler AFB, Ms -LOGS) LONGEVITY 01 1450 USB wkg LONGEVITY 02, appeared to be STRATCOM stations, LONGEVITY 01 (or 02) gave the other station wkg freqs. for NIGHTWATCH (Primary: P-381, Secondary: X-209). Both stations then went "secure", & ANDVT traffic followed. After ANDVT traffic, PAINT HAWK called LONGEVITY (no 01/02 attached). I've heard c/s LONGEVITY used long ago, but does anyWUN know what's up with the 01/02??? BTW, PAINT HAWK may be PINK FOX, PAINT FOX, etc. CHALICE ALPHA 1605 USB wkg MacDill req pp.(BWS) OPEC ? 45 1455 USB w/MacDill w/pp to McGuire CP. Unusual in that OPEC 45 was put on hold w/music being played for several minutes over the air! (BZ) Epic 99 2133 USB wkg Andy w/pp to MANIAC CONTROL (Bangor). Also Epic 99 req wx for St. John's & Stephenville, NF. (CM) Reach 102ET 1110 USB wkg Incirlik AFB Turkey for pp to Rota Spain Metro. Then pp to Hilda East. Croughton UK 1907 USB w/Mainsail bcst. Then requested disregard and started over. // 6712. Andrews AFB, MD 1914 USB w/Mainsail bcst. Believe this is the first time I have heard Andrews here in Italy. (DES) TUFF-14 B-52H 1558 USB wkg pp with Barksdale AFB Meteo, through MacDill AFB, FL. KING 64 USAF C-130H 1614 USB wkg Albrook AFB for pp. JAMBO 30 B-52H 1646 USB calling MAINSAIL, no joy. (DW2) SAM 20603 2128 USB Clg in the blind. Ascension Global 2134 USB wkg PRIMO 21 w/qsy to ? Shark 38 2231 USB wkg Albrook for pp to Howard metro & then to Raymond 09. Adios 73 (spelled) 2236 USB wkg Albrook for pp to GACC at DSN 576-xxxx who id'd as HILDA. Shark 38 2302 USB wkg Albrook w/pp to unid metro and Raymond 09. Offutt 2303 USB w/EAM 3BAARM 26 character

followed immediately by FOXTROT HQF 06 EI (EC1) REACH 7038 1405 USB clg MAINSAIL. R5H 1408 USB clg 7NP then 'any station this net' no contact. OVERRIPE 1430 USB clg MAINSAIL, Macdill ans. Reach 38976 0134 USB req wx McChord AFB. Reach 157X 0323 USB pp Hilda East re: ETAR 14 pax. MacDill 0323 USB wkg Reach 43384, moved to 8992. AAUM? 0340 USB pp via Albrook (EG) (not a known USAV c/s -LOGS) SAM 376 1218 USB w/Croughton w/pp to Andrews VIP. '376 is asked to qsy to 311u. (SAM 376 is C-135E 00376 which used to be w/HQ Space Command, and use the c/s 'Space 01'). SAM 376 1221 USB w/Andy w/pp's to various Andrews AFB DSN's. Apparently, somewhere in Europe, and were going to be at Brindisi on 8th April, and wanted to make Brinidisi aware of their plans to RON. SAM 376 1458 USB w/Croughton w/pp, to DSN 858-xxxx to report that they had problems with their Austrian overflight permissions. SAM 376 0851 USB w/Croughton, pp to Metro for wx at LIBR (Brindisi) at 14.20z. 08.53 p-p to Andrews VIP, '376 is requested to QSY to 522u. SAM 202 1048 USB w/Croughton (moved here from another freq) with a p-p to USDAO. Their eta is 14.20, but may arrive early. SAM 202 1052 USB SAM 202 asks Croughton to 'assume their guard' for '202 as they have lost contact with Andy. '202s approx posn is given as 37N 25E. (GT) DARKSTAR SIERRA 1806 USB wkg MACDILL w/pp to a DSN 884 number. NIGHTWATCH 01 1949 USB calling MCCLELLAN; nothing heard and gone. MOTOWN THREE 1318 USB clg MAIN-SAIL. Nothing heard and gone. At 1323z, SPACEHEAD wkg ANDREWS w/pp to a common DSN 339 number, id'd as DOORKNOB. SPACEHEAD asked DOORKNOB to have BOOMTOWN come up on CHARLIE ALPHA or CHARLIE BRAVO. R5H 1311 USB clg 7NB, w/ALBROOK clg & wkg R5H. Unid station 1454 USB (could not make it out, but sounded like USN opr) wkg ALBROOK w/pp to something sounding like GROUP KEY WEST. (USCG Grp? -LOGS) CRIL3I...; at 1416z+/-, OFFUTT w/ a "FOR 6ABW" EAM. As on 17 Apr 96, the concluding "FOR 6ABW" strings hit at around 1643z & 1713z, w/numerous 20 & 26 character EAMs. GOLD 11 1339 USB wkg ANDREWS, asking ANDREWS for "HF traffic" & advising that GOLD 11 had "5UN" (the first 3 characters of a 6 character EAM preamble.) ANDREWS advised GOLD 11 that there was no "current traffic." A tanker looking for an EAM. OFFUTT0022 USB, as lead GHFS station, w/ 98-character EAM: 5TSZ6L. OFFUTT 1511 USB as lead GHFS station w/ 126-character EAM: CRT6NI. TURBO 90 0003 USB wkg MACDILL w/ an "Ops normal; negative relay" message. MACDILL acknowledged the message, then adv "No current traffic." TURBO 90 requested something covered by atmospheric qrn; MACDILL replied a moment late w/"AYT4HB". This was the preamble to a 20-character EAM first broadcast on the GHFS at 1857z, and repeated at h+00 and h+30 by a callsigned station on 11244/8968 during the duration of the "Exercise Inject" event of that day. Some of the tankers are now openly confirming their "current traffic" (EAMs) on the GHFS. At 0044z, OFFUTT, aslead GHFS station, w/26-character EAM: AYPZSA... At 0051z+/-, OFFUTT was back up w/ the exact same string. This h+51 minutestamp (+/-) seems to be hit heavily w/ this kind of traffic. AMUR ECHO 7 1430 USB wkg ANDREWS w/pp to TACC (Americas Cell) re EXERCISE CRISIS 'something (maybe One)' Nine Six Zero Three. AMUR E9 wkg ALBROOK w/ pp to COMMAND POST, then moved to 11244. GORDO 11 0103 USB wkg ALBROOK w/pp to common DSN 939 number for NIGHTWATCH 01, w/the called party id'd by last 4 digits of the phonenumber. Confirming "wkg frequencies:" X904/S310. AIREVAC 70012 2110 USB wkg ASCENSION w/ pp to HILDA. MACDILL 1355 USB responding to a MCCLELLAN "all freq request", raised MCCLELLAN, then moved to 11181. QT8K 1414 USB wkg OFFUTT w/ a pp to a DSN 433 number (probable OCEANA NAS), id'd as HOTEL ZERO GOLF (probable static call?). JAKE 11 (sounds like in qrn as I type this) wkg OFFUTT for "traffic". OFFUTT adv "67JSIQ", and "ONE ONE" was gone. (JH) Sam 375 2110 USB clg Ascension. Reach 6R2 2110 USB clg Ascension. Reach 521XX 0845 USB req Stuttgart and Mildenhall wx. Reach 7F5 1415 USB N60202, from OJ2X to Dharan,A1 (OJ2X is in Jordan). (JP2) REACH Z1 2027 USB clg Andrews, no joy. REACH 2J2 1953 USB wkg MacDill for pp. REACH G3 2101 USB wkg unid w/pp. (KS) Reach 140PE 2340 USB w/Albrook, pp Furious -- C141 a/c located at N25,13 W89,35 flt level 37K. Jaws 52 0002 USB clg mainsail, no joy but answered by Ascension. At 0018, pp DSN 875-XXXX, Sand Castle regarding helo ops. Reach 45JX 0025 USB w/Ascension, pp's to Hilda America, Pope Metro -- C17A acft located at N41,21 W07,35

flt level 31K. Reach 140PE 0039 USB w/Ascension, pp Lobo -- entered Central America control area. Opset 61 0043 USB w/Ascension, initially called mainsail --- req HF traffic & adv after pause by Ascension that they had no traffic. (KW2) (probably UPSET 61 -LOGS) B2G USB USN submarine wkg COMSUBRON 8 via ALBROOK GLOBAL p/p.Coordinating BRAW? 34 Antenna repair and current broadcast receiving capabilities (i.e. degraded SATCOM, & Backup VLF). (MC2) Albrook 1925 USB w/pp for DOG 09 to FURIOUS (DOG 09 is a C-130). Albrook 1912 USB w/pp for REACH 7 HOTEL 5 to Lobo & Hilda America. Albrook 1944 USB w/pp for SPAR 84 to Andrews base ops & meteo. MacDill 1933 USB w/pp for AEROVAC 622 to DNS# 576-2311. MacDill 2008 USB w/pp for FELIX 61 to FELIX OPS. Andrews 2044 USB w/pp for NIGHTWATCH 01. Ascension 2050 USB w/pp for MUSIC 87. Ascension 2055 USB w/pp for REACH 50235 DOVER CP & meteo. Albrook 2008 USB w/pp for REACH 70165 to Charleston CP & meteo (C141). Albrook 2017 USB w/pp for HERK 86 to a DSN#. Albrook 2021 USB w/pp for SHARK 62 to Lobo, fol by RAYMOND 9. Andrews 2008 USB w/pp for REACH 3 VICTOR 2 to TACC AMERICA. Andrews 2013 USB w/pp for REACH 68304 to DSN #589-xxxx -CASINO. Albrook 2038 USB w/pp for HERK 86 to LOBO & to a DSN#239-xxxx. Albrook 2039 USB w/pp for CINDY 35 to Roosevelt Roads meteo (35-C130). Albrook 1929 USB w/pp for PEEOT? 82 to Hill AFB CP & meteo. Ascension 1827 USB w/pp for LIMA DELTA 10 OSCAR DSN#242-xxxx FOX DUTY. Albrook 1905 USB w/pp for SHARK 68 to Lobo. Albrook 1858 USB w/pp for NAVY 49676 to DSN#942-xxxx. Andrews 1913 USB w/pp for REACH 16401 to McGuire CP. Albrook 1923 USB w/pp for NAVY JULIET ROMEO 68 to Howard meteo. Andrews 1836 USB w/pp for SAM 518 to Andrews meteo/CP. Albrook 1906 USB w/pp for SHARK 41 to Lobo. MacDill 1823 USB w/pp for Navy Juliet Whisky 452 to DSN# 952-xxxx. Albrook 1856 USB w/pp for SHARK 87 to Lobo. Albrook 1908 USB w/pp for SHARK 30 to Lobo. Ascension 1919 USB w/pp for REACH 110 TANGO WHISKEY to Hilda. Albrook 2009 USB w/pp for REACH 04 TANGO WHISKY to Patrick,AFB. Andrews 2011 USB w/pp for REACH 5 TANGO WHISKEY to Rosy Roads base ops(REACH 5 TW is a C-130). MacDill 1829 USB w/pp for SIERRA 19 to DSN#576-1749- TACC. MacDill 1842 USB w/pp for MOOSE 32 to Charleston CP. Albrook 1844 USB w/pp for SHARK 65 to Lobo. MacDill 1901 USB w/pp for NESS 52 to Howard meteo. Andrews 1907 USB w/pp for EVAC 60417 to Dover meteo. Albrook 1821 USB w/pp for JESSY 92 to Howard meteo. MacDill 1912 USB w/pp for GEMINI 81 to DSN#433-xxxx (MF) IFO 02 1055 USB wkg Croughton for pp Delta Ops, Ramstein (480-5954) Arranging replacement loadmaster for eta Ramstein 1215z. Joint-Stars 01 1109 USB clg Croughton - no response. NIFTY 1131 USB passing message in 8 blocks of 3, to Croughton. Reach 42450 1714 USB wkg ?, pp 722-8391 (CP somewhere) + Metro. TN 90532, No pax/cargo, eta 1950z. Reach 42447 1900 USB wkg MacDill. pp McGuire CP, diverting McGuire due broken pilots windscreen. 106 pax on C-141 TN 60144. ADMO: USAV El Chaney - LCU-2017 0917 USB wkg Andrews. pp Raider (283-3284). Currently (deg-min) 16.12N, 084.59W, course 089, speed 9.6 knots. Cardfile 711 2215 USB wkg Offutt. pp 942-4065 (Navy Ops x) QSL confirmation from ops passed. Reach T2 1040 USB wkg Croughton. pp Hilda East + Metro. TN 40621. Req. diplomatic clearance for entry to Turkey form Hilda. dep Sigonella 1014z, eta Incirlik 1320z. MacDill 2227 USB wkg "King 601" (not heard) for pp DSN 577-1663. OFFUTT: 2156 USB SPR, 56, UN. Also on 11244. TITAN 82 2215 USB wkg ANDREWS, QSY'd 15016, then back to 11175. pp DSN 582-6231 (Titan Base, ?NAS Cherry Point?) Base says tower found a "liferaft accessory pack" on the runway def. from a C-130 type. Might be from '82, check at Lajes + be warned. (PR) Elmendorf GHFS, Ak, US 0253 USB wkg REACH 68307 w/pp unid CP, Kelly meteo. AAOU: USAV Manassas (LCU-1667) 0307 USB wkg Elmendorf GHFS w/pp request to RAIDER (1097th Trans Co, Rodman Naval Station, Panama) re posn/status. NAVY JW 400: 1700 USB wkg MacDill w/pp Navy JAX re ETA. (RB) ORLAN 1657 USB w/Ascension. A3Z KNY M3T GRY L5L 3ZA YK4 Time 54 Auth LM. Medivac 02A 1747 USB to Ascension. Tail 6566. Previous callsign IFO 02A, pp to Ramstein MCC & Ascension Meteo for Wx Ramstein. Posn 4534n 1453e FL160 ETA Ramstein 1910. 6 pax 1 litter patient. Need Pulse Oximeter on landing. Reach 105XX 1835 USB to Ascension w/pp to Hilda East "Ex GFLL (Freetown) Landed Dakar 1838Z Req. details next sector". SAM 26000 2242 USB wkg Ascension w/pp to VIP Andrews & 858-8058 (?? Cmd Post) "Flight time 2hr30min. Fuel burn: 31000 ETA 2230Z Hotel: Grand

Ankara." Aircraft landed (at Ankara, Turkey?) during pp. (RC) M90027 1757 USB wkg Croughton/p/p to Metro wx for Ramstein ETA 1915 pirep-C5 psn 5134N0237W F330 (RD3) REACH 30359 1900 USB w/pp to computer flight planning. He had a problem w/ the last page of his flight plan as it was not the same plan as the first 3 pages...was concerned about de-confliction w/ the NAT. REACH 50254 1915 USB w/pp to Dover Meteo. SCALP 13 (B-52) 1924 USB clg for Andrews (SCALPs have been busy out of RAF Fairford). SPAR 85 1946 USB wkg ASCENSION. Unid Reach flt 1815 USB wkg Ramstein Meto for a 1950z arrival. They also wanted an ATOC (??) freq. JM269 1959 USB w/pp via ANDREWS. Rhoda Wx for a 2145z arrival. REACH Z1 2107 USB clg for ANDREWS. No answer. HAWK 03 1100 USB w/pp via Andrews to Raymond 37. Arranging a new RV for fuel. "66" 1505 USB wkg croughton re system testing on "the same freq as last-time ?" "Roger 66". 66 had just dropped his party off a LHBP. he then went off freq. (SM) CATBIRD 2008 USB wkg Ascension, too weak for me to hear. GOLD 91 1800 USB wkg Ascension, req pp to? REACH 67958 1918 USB wkg Ascension re pp to Dover Metro & CP, ETA Dover at 2125z. DARKSTAR SIERRA 2036 USB wkg MacDill, pp to Robins CP. SHARK 35 2103 USB wkg Albrook, pp to LOBO. PITT 15 (spelled) 2115 USB clg Mainsail, no reply. Any ideas on who uses this callsign? JM 099 2143 USB clg Lajes for a pp to 727.XXXX, no reply. ADMO 2148 USB wkg Albrook, pp to ? (Too weak to hear). GOLD 81 (KC-10) 1324 USB wkg ? w/pp to Mildenhall C/P ETA 1450z req relay to the Tanker Task Force (a/c for entry in the Tanker Task Force), also pp to Mildenhall Metro. IPO 27 1338 USB clg Mainsail, no answer. HAWK 03 1345 USB wkg Andrews, pp to RAYMOND 37. REACH 901XX (C-141) 2154 USB wkg Ascension, req pp to 15thSOG? & Hilda East, adv Hilda East a/c tail number was 50266, took off Dahara (sp?) at 2126z, ETA 0345z at LIBR (Brindisi). Then req pp to any metro for LIBR wx at 0345z. SHARK 86 (C-130) 2213 USB wkg ? w/pp to LOBO & Howard Metro. REACH 90135 2245 USB wkg MacDill, pp to Hilda East, ETA Hulbert Field at 0400z. HAWK 85 2315 USB wkg Offutt, pp to RAYMOND 37, re wx. NAVY JM269 1955 USB wkg Ascension, pp to Rota wx for their 2145z observation. (SW2) DOOM 80 2311 USB w/pp re proceeding w/ mission IR178M[?]. They were told the support people were waiting on them. After the mission they were planning to land at Dyess, and then take off an hour later to return to Barksdale AFB, Louisiana. DOOM 72 0129 USB w/pp DOOM control [through Mudbug, I think]. Due to severe turbulence wanted to switch from IR150 to IR178CK. This was approved and controller on ground mentioned that closest conflict to that time was a B-1B and that he understood all B-1Bs were grounded due to flight control problems. Reach ??197 1941 USB a C-141 at 4528N/09041W heard. REACH 60153 1959 USB ETA Elmendorf 2230Z; A-2 maint status [bad VHF radio, bad EGT [?] #2 engine. 31 pax. REACH 80221 2031 USB C-5 headed for Hickam. Will pick up a C-5 engine. Headed for Andrews. ETA Hickam 2300Z. At 2039Z a/c at 2607N/14036W. PRIMO 11 [sp. ?] 2039 USB a KC-10 calls Hickam. 9 crew members, wants billeting, and 170,000 lbs fuel. CHILL 02 [probably B-52H from 5th Bomb Wing at Minot AFB, ND) 2342 USB calls for wx for his 0200Z landing. CHILL callsigns have been heard clg TRIGGER OPS as reported in previous WUN reports. KING 60 2009 USB wkg Andrews req pp to DSN 825-5552 [ABSTAIN later referred to as Base Ops]. Reports that he is an HC-130 w/trouble [serious] w/hydraulic leak and pulsing on number one engine, a/c returning to Minneapolis. Aircraft flying out of Portland, Oregon. HAWK 83 continuously calls for any response, but nobody can hear him. HAWK finally gets through to Dyess METRO. PINION 62 (U-2 out of Beale AFB?) 2047 USB calls McClellan w/no response. Then called SKYBIRD w/no response. SPIRIT 17 (B-2A) 1930 USB placed pp through Elmendorf AFB [Alaska] to DSN 975-8778 (SPIRIT Control) at Whiteman AFB, Missouri. Said he was about halfway "across the pond" headed for home base (Whiteman?) w/ETA of 0130Z. SPIRIT 17 announced he will call on 13204 kHz. Navy RU 570 (C-130?) 2004 USB called DSN 820-2861 (Whidbey NAS Ops). I think this a/c is part of VAQ 134 and in any event is enrt to Whidbey NAS from North Island NAS w/16 pax & 1500 lbs of cargo. They want 30,000 lbs of fuel for their hop across the pond to Atsugi. (TR) ROCK 78 1808 USB req pp to FOXTROT at DSN 597-5041 (Supervisor of Flying at Keesler AFB). No answer. 78 advised they would try again later. SCRUBBER 55 1821 USB clg Offutt Global, then Andrews Global. Never got an answer. SCUBBER 55 guy was wearing

an oxygen mask. At 1845Z, what sounded like the same operator (w/O2 mask on) started clg Andrews & Offutt Globals, but this time using callsign HOOK 45. Still, no contact w/ a GHFS station. H8N 1853 USB contacts MacDill Global & req pp to COMSUBRON 8 at a DSN 564 exchange #. Apparently whoever answered that phone at that DSN wanted to know if H8N was a submarine, ship, or a/c, & the MacDill operator started to ask H8N that very question! In the background during MacDill's transmission, I could hear the COMSUBRON 8 guy yelling at MacDill to not ask H8N that. MacDill un-keyed after most of the question had been asked. H8N finally initiated the pp, executed Esteem Highly Alpha, & the patch was terminated. NAVY QC (?) 460 1720 USB w/pp via Elmendorf GHFS. Traffic was weak, but QC (?) 460 wanted to adv their relieving a/c that there were scattered clouds at 2100 w/ occasional light rain, and that the range appeared clear. SHADO 10 would be "on IP." HORIZON 29 1910 USB w/pp to RAYMOND 9 via Albrook. HORIZON 29 passed a standard arrival/departure message for some locations in Central/South America. HORIZON is a static-call (perhaps secondary call for the SHARK boys) occasionally heard, usually operating in Central/South America. NIGHTWATCH 01 2315 asking Ascension GHFS to relay to NIGHTWATCH 02 that 01 will meet 02 on W-110. At 2319Z, NW02 made a pp via Ascension to Andrews VIP. Andrews VIP advised NW01 that Air Force One primary was Fox-461U, & secondary was 709. ANVIL 07 1929 USB w/pp to a 366 DSN exchange # via MacDill. Initiated at 1932Z, 07 needed to speak w/ Paul Gardner. ANVIL 07 advised they should be landing at Richmond at around 1845L, depart at about 2000L, & "see you back at Charleston" between 2050-2100L. ANVIL 07 = C-130 of the 130th Airlift Wing, WV ANG, based at Yeager Airport in Charleston, West Virginia. SHADY 27 1943 USB w/pp to a 971-exchange DSN via Andrews Global. 27 asked SHADY OPS to contact 27's wife & find out what time their kid's game was that night, etc. Geez, you'd think the Army Military Intelligence Battalion pilot flying this OV-1D 'Mohawk' a/c could find a more creative way of finding out when Junior's game started! 2PN (British accent) 1949 USB asking Andrews Global to relay to TSC-Jacksonville that callsign 2PN was off-station at 1945Z. NAVY LD311 2006 USB w/pp to DSN at NAS Roosevelt Roads via Andrews GHFS. 311 adv "Duty Office" they were off the deck at Key West at 1550 (1950Z), & ETA Rosie was 1920L. NAVY EC3S 1539 USB w/pp to Patrick AFB Ops via Albrook Global. EC3S adv Base Operations they were a P-3C that would like to divert to Patrick for refueling at 1700L. Patrick asked if they had a PPR # & EC3S adv negative. Patrick adv they would be open & capable of refueling a P-3, but the a/c should work on getting a PPR. Next patch was to a DSN at NAS Jax. EC3S asked PATRON 45 Operations for approval to divert & refuel at Patrick. Permission granted, & Operations would coordinate that w/Patrick AFB. (TT) Andrews 1835 USB w/Exercise Inject Golf Xray Romeo. Asks Nightwatch to respond, then McClellan joins in w/ Exercise Inject Golf Xray Papa. (DS)

11176 SCALP 13 1943 USB wkg Andrews w/pp to SCALP Scheduling, very weak the only part I caught was 'successful mission', (a/c may have been one of the B-52s that visited RAF Fairford over the weekend). (SW2)

11178 'PJK' 2237 USB wkg 'PJO 75' w/messages in EE & Dutch. (GT) (PJK is Dutch Navy, Suffisant Dorp Naval, ATN -LOGS)

11180 Ascension 2255 USB wkg NW01, & NW02. (BWS)

11181 Unid a/c 1518 USB w/pp to unk base re: arrival time & two passengers not on board. Noisy conditions. (GG) BIRDTRAP 1811 USB clg and wkg MACDILL, w/ voice and data. At 1924z, BIRDTRAP wkg MCCLELLAN. MCCLELLAN 1901 USB wkg NIGHTWATCH 01. MACDILL 1358 USB works MCCLELLAN in voice and data. (JH)

11187 SPACEHEAD 1330 USB clg BOOMTOWN on self-id'd CHARLIE BRAVO. 1526 USB Very weak voice & data activity involving LEOLION (sounds like) & BOOMTOWN. (JH)

11205 IFN 22 1345 USB from "EGLP" to "LQBK", both unknown to me, also mentioned "Paderborn" as destination (?)Selcal AH-LM. (JP2)

11212.4 MAGIC-CARPET 0035 USB wkg FOXTROT-ONE, w/ references to HABITAT. Sounds like some type of data-link set-up operation, possibly SATCOM. Received at good levels here on the west coast. (JJ)

11214 DRAGNET SIERRA wkg TRENTON MILITARY w/pp to RAYMOND 24/CURRENT OPS. (JH) Andrews 1948 USB w/pp for SAM 203 to unid loc, second pp re

press. SENTRY 49 2027 USB req radio check from RAYMOND 24 on Charlie 6. Andrews 2033 USB w/pp for SAM 203 to Howard meteo, 3 other DSN's. At 2057 SAM 203 req switch to 89 (F89-13204) (MF)
11217 MacDill 2332 USB wkg NW02, adv they are weak and barely readable. (BWS) REACH a/c 2300 USB w/calls in to _____ (sounds like DIXON/ NIXON/VIXEN/KNICKS) CONTROL. They're passing standard inbound messages -- # of pax/crew, aircraft maintenance status, etc. I'm only hearing the aircraft side from my home near Ann Arbor, Michigan. Based on ETAs given, I know that they're using the US Central Time Zone. Aircraft heard have been REACH 524 and REACH 80030. I'm not sure if this is a discrete channel being used by a TALCE at a temp operating location, or if it is a discrete being used by a normal wing/group/squadron ops center at a military airfield. (TT)
11220 NIGHTWATCH 01 2352 USB clg MacDill on S-310, fol by NW02. (BWS) SAM 202 1200 USB w/Andy on 311u. 12.20 Andy asks '202 to QSY to 920u as new primary freq. (GT) SPACEACE 2105 USB wkg NIGHTWATCH 01 w/SPACEACE entering the net. S310 primary; X903 secondary. ANDREWS 0358 USB wkg AIRFORCE ONE; then wkg NIGHTWATCH 01 w/a brief signal check. TRADES-MAN (good to weak levels) 1418 USB clg NIGHTWATCH 01, w/no response. EQUALITY 0223 USB wkg NIGHTWATCH 01; & telling NW01 that he was off frequency. Non-id'ing station 0433 USB (turned out to be ANDREWS) w/ periodic "test 12 3, 3 2 1." At 0435z, ANDREWS wkg SPAR 66. At 0502z, SPAR 66 placed a pp to a European DSN number. NIGHTWATCH 01 (weak here in coastal Texas) 2149 USB clg SANCTIFY. ASTROJET 1245 USB wkg NIGHTWATCH 01. (JH) NIGHTWATCH 01 1947 USB in net. (MF) SAM 973 1946 USB wkg ANDREWS, pp SAM CP, prob. on ground. SAM 376 1952 USB wkg ANDREWS, attempted wkg SAM 973. No joy. SAM 201 2242 USB ending pp via ANDREWS. (PR) SAM 29000 2208 USB wkg Andrews after moved from 13211, SAM 29000 was passing 41w at the time. (RT3)
11226 SAM 518: 2220 USB wkg Andrews VIP w/signal ck's on F365. (RB) SPAR 19 1958 USB wkg Andrews w/pp to Rota ATOC re a passenger aboard their a/c who had'nt been 'processed' properly. The passenger went to the flightline unauthorized & boarded a/c, adv them that the passenger is to be treated as a stowaway and would be dealt w/ on landing. (SW2) SPAR 19 (CINCCENT EC-135) 1531 USB maintaining comms w/ Andrews VIP. SPAR 19 had a 1615Z ETA at NAS Rota, Spain. (TT) WAR46 2002 USB clg and wkg NIGHTWATCH 01, moved from 11220. (JH)
11232 Bison 37 1725 USB wrk Trenton Military req wx for Cold Lake. (CM) SAM 376 0857 USB w/Andy, radio checks on 522u. Andy w/msg for '376 frm LIBR - will be parking on the civil side of airfield, and need to pay 4000 USD for C135 service. '376 rpt eta as 12.50-13.00z, will confirm when depart from Albania. SAM 376 0933 USB QSY to 662u as secondary freq; their checked-in briefly on 15.048, and returned to 11232. SAM 376 0959 USB Andy clg SAM 376, answered by Trenton Military, who asks if they can be of assistance! (GT) Trenton military 1828 USB w/pp for CANFORCE 2520 to unid meteo (MF) IFB 59 1750 USB wkg Trenton Mil, wx for St Johns & Gander. (SM) CANFORCE 1650 1617 USB w/pp to Trenton Wing Operations via Trenton Military. CANFORCE 1650 had a 2035Z ETA at CFB Trenton, and was in-bound from Thule, AB Greenland w/ 85 pax, 9 crew, and 3 pallets of cargo. 1650's SELCALL was FHJL, and Trenton Advised their secondary HF channel was 9007 USB. GONZO 06 CHARLIE 1623 USB radio-checking Trenton, and then passing them one Exercise Immediate message Time: 292612Z (sic), From: GONZO 06 CHARLIE, To: MOC Halifax, Message: On-task at 1557Z, Exercise. Trenton repeated the message back to 06 CHARLIE, 06 CHARLIE confirmed it, then advised they had no further traffic for Trenton. (TT)
11235 AUSSI-095 0343 USB wkg RAAF DARWIN (SB)
11244 Catbird 0909 USB wkg Croughton (VP-3A) pp .... base ops: airborne, eta 11:00 local, need 8k fuel, fuel truck on arrival due to tight schedule (BH) Croughton 1041 USB clg SPAR 3 on all freqs. Asking for his freq. Nothing heard. Offutt AFB 1401 USB w/ Mainsail bcst. (DES) Elmendorf 1930 USB wkg Navy RV387. Offutt 0347 USB w/5UET4... (EG) NIGHTWATCH 02 1641 wkg MACDILL w/ pp to common NIGHTWATCH 01 DSN 939 number. Trying to get good wkg freqs (S309; S310;X903.) NW02: "Looking for additional testing time on USC 112." BLACKDOG 1532 USB w/26-character EAM, simulcast on 11244.0 and 6739.0.EAM picked up by GHFS at 1541z. MCCLELLAN 1507 USB as lead GHFS station, w/25-

character EAM: CRRGKM.During the transmission, AAOU was wkg RAIDER via pp,and was complaining about being "stepped on," but the patch continued on anyway. OFFUTT 1520 USB w/ an 'all frequency request' for COSMO 32. "This is OFFUTT w/ traffic." Nothing heard. At approx. 1524z, MCCLELLAN w/an all frequency request for COSMO 32, and MCCLELLAN gave out all his active GHFS freqs. Over the next few minutes, most of the North American GHFS stations would broadcast 'all frequency requests' for COSMO 32;and then finally these same stations ended up broadcasting in-the-blind four 3-element groups/ minutestamp/authentication. MCCLELLAN 1815 USB clg ASCENSION w/an "all frequency call." No response heard or found. BIRDTRAP 1920 USB wkg MCCLELLAN. Moved to 11181. At 2052z, SPACEACE wkg MACDILL for NIGHTWATCH 01 wkg freqs (P381/X903). LANDMINE 1200 USB wkg TREEBEAM, getting wkg freqs for NIGHTWATCH net. He must of called MAINSAIL, and raised the callsign station instead. (X903; X209; X208). MCCLELLAN 1311 USB w/3 EAMs, one of which was taken from MCCLELLANs 1245z EAM set, and one that was from MCCLELLAN's 1303z EAM transmission. This 3-set was repeated at 1350z, w/ the first string replaced w/ the first string of the 1245z EAM rotation.Possible indication of a MCCLELLAN h+11/h+50 "repeat" EAM transmission time. (Heard simulcast on 6739; 8968; 11175; 11244). SNOOP 51 2043 USB clg OFFUTT GOBAL; then clg MAINSAIL at 2046z. NIGHTWATCH 03 1330 USB wkg MACDILL, getting wkg freqs for NIGHTWATCH 01. NIGHTWATCH 03 wkg MACDILL again at 1347z; MACDILL clg NIGHTWATCH 01 at 1349z and 1359z, w/nothing heard. PUPILEYE 1450 USB wkg MACDILL w/half-hour signal checks. LEOLION (sounds like) 1415 USB wkg MACDILL w/pp to OPCON, w/chatter re use of CHARLIE BRAVO. DAIRYMAID 1618 USB (phonetically spelled to ALBROOK) getting wkg freqs for NIGHTWATCH 01 (S310/S312 - nothing heard on either freq.) BEAR 39 1503 USB wkg OFFUTT w/a pp to BEAR OPS at a DSN 789 number. At 1532z, OFFUTT w/ 20-character EAM "FOR THRICE." DARK 43 1813 USB clg MAINSAIL. OVERRIDE 2021 USB clg MAINSAIL; nothing heard, and gone. (JH) Albrook 1845 USB w/pp for SHARK 46 to Lobo (MF) Andrews 2152 USB passing wkg freqs to TWILIGHT, primary S-312 secondary X-904. Weak voice comms heard on both soon after but too noisy to tell who it was. OUTBREAK: 2203 USB finishing pp via Andrews. AAOU: USAV Mannassas (LCU-1667) 2230 USB wkg Albrook. pp Raider - missed PosRep. McCLELLAN 2016 USB w/EAM: 67TBSY [+14] also on 6712,11175,13200,15016. INCIRLIK & LAJES 2018 USB echoing above EAM on same freqs + 6739,4724. Incirlik 2335 USB starts same EAM approx 10 seconds into SALESMAN broadcast. (PR) Croughton 1757 USB w/AYTPF6 over & over. Andrews 1856 USB "For THORWICK & BUTE" 67XPQ6. Incirlik 1857 USB "For THORWICK & BUTE" 67XPQ6. Incirlik 1836 USB For ORGANGRINDER & BAMBO. 67BU3. REPLY 81 (U-2) 1505 USB reported ops normal at 1500z. MUTT 86 (U-2?) 1445 USB wkg Thule, passed a two group message, EQM GPS, time 43, authentication LC. (SW2) Thule GHFS 2327 USB broadcasting a 20-character Emergency Action Message "for TYRANT." I wonder if by saying "for TYRANT," the broadcasters mean that the EAM is directed to callword TYRANT, or if the station is broadcasting the EAM at the request of TYRANT? PING PONG 1444 USB w/pp to "OpCon" at a 342 DSN via Thule GHFS. PING-PONG was clg OpCon back to see if they'd located a part. OpCon adv part is on base. DSN directory just shows Duluth AFS, MN for CONUS 342 exchange. (TT)

11247 GOTX: RMAS Robust 1732 USB clg for Gibralter Flightwatch, they were 50 mins out. Cyprus gave him the Aviation Wx & Robust replied "That means nothing to me...." He went off to try & call Gibralter again. Gibralter 1430 USB clg for ARCHITECT.. no reply. (SM)

11253 Royal Air Force Volmet 1043 USB Used to be on 11200. Good marker for me to check band condx. (DES) RAF Volmet 2211 USB (SM)

11460 ANDREWS 2120 USB wkg SAM 206, and giving SAM 206 preflight freqs for 02 May: F290/F295. SAM 206 1527 USB wkg ANDREWS (as noted above, I just noticed). (JH) Andrews 1853 USB w/pp for SAM 518 to Andrews VIP (MF) SAM 050: USAF C-20C tail 85-0050 1216 USB Special Air Mission a/c, wkg Andrews VIP w/pp to 1-800#. (RB)

11494 ASTROJET 1249 USB wkg NIGHTWATCH 01, still active at 1832z. (JH) SALESMAN 2245 USB clg NIGHTWATCH 01 - no response. METHODIST 2325 USB clg NW01 - no response. At 2326 SALESMAN wkg NW01 (voice/signal VERY similar to METHODIST). NW01 very weak, QSY W105 (7831), then to X904 (9017). (PR) ASTROJET: 1715 USB clg NIGHTWATCH 01, MAINSAIL, no joy

on "S-311". (RB)
12070 ATTRITION 1926 USB clg NIGHTWATCH 01. (JH)
13200 Nerts 1600 USB Croughton c/s spelled, trigraph tfc (BH) Hickam 0345 USB w/5UET4... (EG) REACH 70007 (apparently "coming up from Johnston Island") 0201 USB wkg HICKAM. (JH) THULE 1915 USB w/pp for REACH 5077 to RAYMOND 17 (MF) TV031 2129 USB wkg Thule, pp to Duty Office. We need customs & have you sorted some storage for our boxes? (SM) IPO 06 1339 USB clg Croughton Airways. AIRVAC 1061 1527 USB clg Mainsail, then wkg Croughton w/pp to Rota Metro for their 1700z wx. AIRVAC 10S4 1540 USB clg Croughton, told to QSY 11175 (Nothing more hrd). (SW2)
13204 NIGHTWATCH 02 2216 USB wkg Ascension w/pp NIGHTWATCH 01. NW01 advised they would check out S-312 and S-310. NW01 told NW02 they needed the status of their "228" (unknown what 228 refers to). (BWS) Andrews 2106 USB w/pp for SAM 203 to unid DSN#. (MF)
13206 Aussie 01 0130 USB, informing Airforce Darwin that ops normal and will recall at 0300z. (AMB) HUDSON-607 0255 USB wkg RAAF Townsville to RAAF Amberley HS-748 32 Sqd (SB)
13211 Air Force 1 0000 USB wkg Andrews w/check. (BWS) AF1 1833 USB w/Andy. radio checks; will use 461u as Primary. SAM 29000 is on freq also, and Andy asks them to qsy to 948u. (GT) ASTROJET 1934 USB clg NIGHTWATCH ONE. MEMORIZE 2019 USB wkg NIGHTWATCH 01, and entering the net. NIGHTWATCH 01 makes 13211.0 primary, and goes to 9017 to raise REGISTER and move him here. (JH) Air Force 1 0152 USB wkg Andrews, adv loud and clear now. (KS) Spar 19 2254 USB wkg Andrews. At end of a pp to ?, says go to Satcom voice chan. (PR) Andrews (Mystic Star) 0037 USB radio-checking AIR FORCE ONE, enrt to Andrews from Moscow, ETB KADW 0200Z. (TT)
13218 ABNORMAL (Vandenburg AFB) 1750 USB coordinating frequency assignments for ARIA 2 & ARIA CONTROL (and others), gave the following USB freqs: ARIA 2 Receive: 10352.0, 13900.0, 14987.0, CONTROL Xmit: 11110.0, 15793.0, 17560.0. (JJ)
13242 SAM 60203 2145 USB wkg Albrook for VIP pp to Andrews VIP QSY'd from 11175 (EC1) LONGEVITY 1854 USB clg MACDILL. (JH)
14441.5 NNN0COW: USS Trenton (LPD-14) 1529 USB wkg NNN0JHR, private shore sta in S. Texas, adv too weak for pp tfc right now. (RB)
14587 Cotam 3900 1450 USB To Iraklion. (JP2)
15015 SNOOP 50 2246 USB wkg MacDill w/pp RAYMOND 21. (Signals too weak mentioned something about an air refuelling then returning to Offutt at 0250z). (SW2)
15016 KING 63: 2140 USB w/ASCENSION, pp Patrick AFB, FL (AM) MacDill 2020 USB wkg LONGEVITY. (CM) AAOU 1502 USB pp via Albrook to RAIDER pos rpt off Nicaguagua, arrangements for port. (USAV Manassas LCU-1667 -LOGS) SHARK 32 1509 USB clg ALbrook. Elmendorf wkg 1879 req Fairchild AFB wx 2200z Elmendorf metro pirep KR135 WOODY79 19:52. Reach 50252 2043 USB clg McClellan pp to Elmendorf block time 23:50 C141. Andrews 2052 USB clg Reach 70043. Snoop 51 2055 USB w/pp to Raymond 21 ? pax and parking. Gasser 91 2056 USB clg McClellan for radio chk. Sky King DNA IQ3 time 03 UK, Andrews, Elmendorf, and McClellan. Reach 8J8 2108 USB w/Ascension re pp, will call Charleston when closer in. Elemdorf USB clg Sierra 56, moved to 11175. Reach 4583 1825 USB heavy clg Mainsail, pp via McClellan block time 2320 at Travis AFB then on to Hickam (EG) MacDill 2323 USB w/SKYKING DNA msg. Albrook 2331 USB weak but readable,Unk clg M6F. DOG 03 2334 USB clg MacDill. Yakota 0052 USB clg AIRVAC 10784 x3, nothing heard/out. HAWK 84 0052 USB w/Andrews relay re: 6 release(?) of weapons (GG) MACDILL 2020 USB wkg LONGEVITY (after clg LONGEVITY w/all freq request at 2015z; raising same at 2019z on 11175 via ANDREWS; & moving to 15016.0. MACDILL passed the final message groups of this day's "Exercise Inject" activity. During this xmsn, ANDREWS was up on freq at 2024z w/ a call to "All stations; all stations," and then into a message that was covered by MACDILL. (JH) Albrook 2004 USB w/pp for SHARK 86 to Howard meteo. Albrook 1847 USB w/pp for 3 TANGO MIKE to COMSUBLANT. Ascension 1852 USB w/pp for REACH 80219 to DSN#589-xxxx Westover CP. Albrook 1832 USB w/pp for CHALICE CHARLIE to Raymond 24 (Tail# 20577). Albrook 1919 USB w/pp for IVORY 63. Ascension 2048 USB w/pp for ELVIS 62 to Rosy Roads meteo (ELVIS 62 is a C-141). Ascension 1915 USB w/pp for REACH 503 ROMEO FOXTROT to Mildenhall AMCC & meteo. Albrook 1834 USB w/pp for SHARK 18 to Howard

meteo. Albrook 1917 USB w/pp for EVAC 56 to Lobo (MF) Reach 42473: 1020 USB wkg Lajes. pp Hilda East. a/c has fuel problem on no.3 engine, not enough fuel for Rota, will head for Sigonella. Shagy 26: 1730 USB wkg Ascension. pp Rota Air-Ops (DSN 727-2207) Passing flight plan to Ops for after refuel at Rota. From plan : a/c C-130, dep LERT (Rota) 2000z, eta GOOY (Dakar) - a 5.5 hr flight. Serial 95826. (67SOS HC-130N), 19 pob, 11hrs endurance. Crew + pax list from 67SOS. Reach 104XX 1745 USB wkg Ascension. pp Hilda East, a/c heading for Aviano for quick turn to Sierra Leone, Moved to 18019 where 104XX was lost w/ Asc. very weak. (PR) ELVIS 62: C-141B 164th ALG/118th ALW, Memphis Int'l Airport, Tn 2051 USB wkg Ascension w/pp Roosie Roads meteo. (RB) ADMO: USAV El Chaney (LCU-2017) 1623 USB w/pp via Albrook for posn report & ETA. (RT2) 7H5 2027 USB w/a pp to ?? re diplo clearance, they were enrt to Roosevelt Roads, PR, then pp to Howard Meteo. Reach 2089 1136 USB pp to Dover Meteo. Wx for Dover & Andrews. IFOR 29 1209 USB wkg Lajes, pp w/flight planning details for a trip routing Zagreb, Gyser, Aviano. in a C-21. (SM)

15038 SAM 29000 1839 USB w/Andy w/radio checks. who else should pop-up on freq, but NIGHTWATCH. NW called several times 'Nightwatch on 948'. Note, no number suffix was mentioned. (GT)

16986 CTP: NATO Lisbon POR 1501 "QSX 4/8/12/16Mhz." (HL)

17972 ASTROJET (strong level here) 1255 USB clg NIGHTWATCH 01, w/no response & gone. (JH)

17976 OFFUTT 2035 USB as lead GHFS station, w/ 20/20/26 character EAM set over a 10 minute period. (JH)

18018 RAF: Cyprus Flight Watch 1117 USB wx brdcst for various Mediterranean airfields. Cyprus Flight Watch 1123 USB wx brdcst of Egyptian + Mid East fields. (PR) Cyprus Flight Watch 1315 USB Wx for Cyprus. (SM)

18290 ? 029 0159 USB pp via Andrews, re dinner. (EG)

=ALL OTHER SSB/AM/CW/& MISCELLANEOUS MYSTERIOUS STATIONS=

479 RAV: unid aero beacon (days in Italy) Could it possibly be coming from somewhere in the northern Adriatic coast of former Yugoslavia? Any info out there? (FM)

2500 WWV: Fort Collins, CO 1210 AM w/time, wx. (RT2)

2593 Unid 1837 USB FF w/pp, Male & Female chatting about Wx. (SM)

3090 UNID Number st. 2132 AM YF "Sierra Yankee November Two" (HL) (Mossad -LOGS)

3150 MOSSAD,ISR 2301 USB PCD broadcast (AB) PCD: Mossad 2132 AM YF 5LG (HL)

3261 ZKFK New Zealand - South Island Mountain Radio Service 0800 USB wkg portable/mobile field stations. (AB3)

3270 MOSSAD,ISR 1904 USB KPA broadcast (AB)

3825 Swedish Rhapsody numbers station 2000 USB Tfc id 84063+5FG's in GG. (AB)

3840 MOSSAD,ISR 1903 USB YHF broadcast (AB)

4072 Unid: 1755 USB Unid time signal station sending the GMT+4 time as "HHMM" (24 hour format) in morse code. Continues until now (1825Z). (CK)

4130 NAS numbers station 2100 USB 'Mike Susan Adam' broadcast, also at 1900 UTC. (AB)

4165 MOSSAD,ISR 1906 USB SYN2 broadcast (AB)

4270 MOSSAD,ISR 1930 USB PCD2 broadcast (AB)

4463 MOSSAD,ISR 2300 USB FTJ2 broadcast (AB)

4481 3-Note-Oddity numbers station (Hungarian Intelligence?),HNG 2035 AM Repeat of 2005 broadcast on 4580 kHz (AB)

4553 Unid 1757 USB Italian Simplex. (SM)

4565 Unid 1756 USB Crypto Simplex. (SM)

4580 3-Note-Oddity numbers station (Hungarian Intelligence?),HNG 2005 AM 3-note-rising-scale interval signal + 5F gr in German (AB)

4660 Jammer, 1915 Hops to 4672 and back. Stays on each freq between 1.5 and 7 mins. Active all night long, every night (AB)

4665 Numbers Station 0044 AM lady numbers stn, repeating CIO2 (Charlie, India, Oscar, two). (MS2) (Mossad -LOGS)

4672 Jammer, 1915 Hops to 4660 and back. Stays on each freq between 1.5 and 7 mins. Active all night long, every night (AB)

4880 MOSSAD,ISR 2100 USB ULX broadcast (AB)

5245 Madang PNG 1050 USB. Telefonim network.Several p/p at once (AW)

5277 PANTHER: DEA Regional HQ, Nassau, Bah 0000 USB clg 32C & 93A (helos) w/coordinates for "Mosstown" advising them to get airborne ASAP & detain the a/c upon landing. Req that DEA vehicles & agents be used. 0004Z, 2 suspects have left the a/c, 1 suspect in the terminal and the a/c is off the runway. 32C ordered to secure and search the Southeast perimeter of the field using lights to find one of the suspects. 93A was to secure the a/c. There was some discussion about the use of clear comms for the operation. Switched to 350.450 Mhz (UHF) Secure. (PS) (Rare catch! -LOGS)
5301 OLX: MOI Prague,CZE 1700 CW Msg to 476 (AB)
5390 Unid 0130 USB weak EE tfc; nothing in CFL that fits. (MS2) (CGD206, Alma Radio 'Bell of Canada', PQ w/bush phone radiotelephone traffic -LOGS)
5395.5 Unid 0125 USB domestic household discussion between man & woman, suspect canadians, except for pronunciation of 'tomorrow' sounded more like someone from Maine would say it. (MS2)
5400 Fiji 0755 USB Inter-island net in Fijian Lang. (AB3)
5401 GS2 0017 USB w/B99, military sounding but unid. (AM)
5422 MI6 (Lincolnshire Poacher),CYP 2200 USB Msg id 85336. 5FG's. (AB)
5448 Unid 0415 USB some type of time signal station???, although beeps were actually slightly faster than one second apart. Sounded more like the beeping a truck makes when it's backing up (TB)
5460 Jammer, 1915 Hops to 5472 and back. Same as 4660/4672 kHz (AB)
5470 Unid NZ 0745 USB - Rural comms - farmer chat. (AB3)
5472 Jammer, 1915 Hops to 5460 and back. Same as 4660/4672 kHz (AB)
5521 Unid: 1642 LSB French Simplex. (SM)
5530 NAS numbers station 2000 USB 'Nancy Adam Susan' broadcast. (AB)
5629 Numbers station--YL EE 0326 AM repeating "Sierra Yankee Alpha Two". (KW2) (Mossad -LOGS)
5630 MOSSAD,ISR 1859 USB SYN2 broadcast (AB)
6535 Unid Philippines stn 0915 USB w/long list of orders.Blatant disregard of Aero band. (AW)
6640 Unid: 1920 LSB stns in Italian. I live in Italy but speak very little Italian. Any clues as to ID? Strange to hear LSB outside the ham bands. (DES) (Ary sez this is a common Italian/Spanish pirate frequency -LOGS)
6645 South Pacific 0715 USB French Net - not military but good radio discipline including use of Q codes. C/signs 59/67/03/70/41/66/110. (AB3)
6646 Unid USB data/scrambled traffic, on/very close to 6646khz sounds similar to alot of the stuff on 8971khz. (PR)
6660 MOSSAD,ISR 1901 USB SYN2 broadcast (AB) Numbers Station YL EE 0232 AM repeating "Sierra Yankee November Two". (KW2) (Mossad -LOGS)
6739.2 1337 Continuous apparent feedback "tones," zeroed around 6739.2. Active for many hours. Old HICOM transmitters active on freq?? (JH)
6745 Numbers station, YL EE 2348 AM repeating "Charlie India Oscar Two". (KW2) (Mossad -LOGS)
6753 Unid: 0938 USB definite aust net 5WJ clg 1ZT said go to night freq. Who is this? (EW)
6785 Numbers station--YL EE 0336 AM 5NG's. (KW2)
6803.1 Unid 2317 USB A brief burst of data then several rings of a telephone, when someone answered the call an automated voice replied "You are receiving a call from a radio station, one moment please." Someone then came on the line, gave a schedule for the evening and signed off with a call sign. As you might expect, static obliterated the call sign. This used to be a primary Southwestern Bell Telephone frequency and may still be used by the national Bell NS/EP net. (JM)
6849 Papua Niugini 0825 USB Mission station net - numerous stns. (AB3) New Tribes Mission Goroka PNG 0925 USB Base wkg several outposts (AW) Unid 0905 USB Two lady's talking about stuff, both had what sounded like Canadian voices, many other station's waiting to come up on channel, sounded like a "bush net" any help please. (SB) (Alex Wellner posted that this should be New Tribes Mission on Goroka PNG -LOGS)
6856.5 UNID: 0524 CW 5LG's. (PS)
6959 "Lincolnshire Poacher" MI6 YF 5ng jammed (HL)
6975 Unid 2145 USB two women w/discussion in FF. (TB)
6995 Numbers station (NNN) 1401 CW Msg to 401 + 5FG's. (AB)

6997 Queensland Australia 0700 USB assorted outback comms (AB3)
7720 Extremely loud jammer 1608 USB (AB)
7753 Q6AP: 1830 CW 25 WPM Calling DC4V (GD2)
7846 Unid: 0812 CW AGGNM GTMNG WGTDI +++ (EW)
7871.2 LN2A: NorwegianPTT,Sveio 1717 CW "LN2A" marker plus mixed FSK signals (MC)
7918 MOSSAD,ISR 1600 USB FYH broadcast (AB)
8142 OLX: MOI Prague, CZE 1600 USB Msg to 288 (AB)
8143 MD: BND,D 1520 USB Msg to MD. 3/2F groups in EE. (AB)
8181 "PRM": 1826 CW VVVs - too strong for Brazil (JD2)
8970 Unid 2026 USB w/a SELCAL then nothing ! Any ideas what this freq is ? (SM)
9115 UNID: Numbers st. 1515 AM male 5cg (HL)
9160 CIA, USA 0700 USB 10-count. Msg for 257 (AB)
9263 Numbers station 2238 USB lady w/British accent giving 5FG's//11545.0 (TB)
9810.7 JMW9: 0917 CW JMW9 V AQH4. Who is this? (EW)
10180 Number Station YL EE 0227 AM 5NG's. (KW2)
10408.2 LN2A: Norwegian PTT, Sveio 1102 CW "ln2a" marker plus 100bd/850 FSK info (MC)
10529 Uni: 1312 USB 3/2 LETTER GRPS LADY (EW)
10597 Unid: 1115 USB 3/2 LETTER GRPS AMER LADY (EW)
11170 NAS numbers station 1230 USB 'Mike Susan Adam' broadcast (AB)
11250 Unid 2025 LSB "Alpha Alpha.... Alpha Alpha" is all that was said with very heavy European accent. (SM)
11270 Russian Man Number Station,RUS 0820 USB Msg for 615. Msg 81563, 84903, 00000 (AB)
11455 KKN50: 1517 CW US State Dept? CQ Marker tape (AB3)
12235 TCB: INS 1009 CW 5LG to TCJ. (MS4)
13375 MI6 (Lincolnshire Poacher),CYP 1500 USB Msg id 04899. 5FG's//11545// 15682 kHz (AB)
13491.5 VOA: 1815 B8E VOA feeder (JD2)
14406.2 LN2A: Norwegian PTT, Sveio 1504 CW marker plus mixed signals including 100bd/850 reversals (MC)
14488 "Lincolnshire poacher" 1030 YF 5ng jammed (HL)
14686 ATLAS: Customs/DEA Communications Center, Rockwell-Collins, Cedar Rapids, IA 1542 USB wkg FLINT 940 (DEA a/c) re is 30 mins out from his location, on DEA "Papa" frequency. (RB)
14890 Russian Man Number Station,RUS 0800 USB Msg for 615. Msg 89513, 82403 (AB)
14965 Unid: 0812 USB scrambled speech (EW)
15682 MI6: Lincolnshire Poacher,CYP 1600 AM Msg id 04899 + 5FG's in EE.(AB) Lincolnshire poacher: 1100&1805 USB 5ng jammed (HL)
16982.5 KOAT: 0501 CW clg HKMR (EW)
19716 IZE: Mossad 1100 USB yf "India Echo Zulu" (HL)

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(AB2) Art Blair, Orangevale, Ca, USA (by mail): NRD-515, M-7000
(AB3) Andrew Brill, Auckland, New Zealand
(AD2) Alan Doherty, N.Coast, Ireland
(AM) Alfie McAfee, UK
(AM2) Al Marote, Vero Beach, FL, USA
(AMB) Andy M. Bennett, Australia
(ANEE)Anonymous, Eastern Europe
(AW) Alex Wellner, Sydney, Australia: Kenwood R5000
(BH) Bart Hoekstra, Leeuwarden, The Netherlands: Lowe HF-225
(BWS) Brian Wayne Scott, Denton, Tx, USA: NRD535D, IC R7100
(BZ) Bruce Zarillo, Jackson, NJ, USA: DX-440
(CH) Carl Hender, Suffolk, UK: IC R72, JVFAX, HAMCOMM
(CK) Costas Krallis, Athens, Greece: Yaesu 7700
(CM) Craig MacKinnon, Halifax, NS, Canada: Yaesu FRG-7
(DD) Dick Dillman, San Francisco, Ca, USA: R390A, Alden 517
(DES) Donald E. Stidwell, Italy & temp Va Beach, Va, USA: IC R-71A
(DF) Dan Fischer, E.Wisconsin, USA: Drake R8A/R-8, NRD525, Univ. M-7000v7
(DM2) David McCrery, Atlanta, Ga, USA: Kenwood R1000
(DS) Dave Smith, St Louis, Mo, USA: DX-440
(DW) Day Watson, Clevedon, UK

(DW2) David Wright, San Angelo, Tx, USA: DX390, Grundig YB400, Univ.M-1000
(DW3) Donald Warner, Medway, Ohio, USA
(EC1) E. Cisar (aka 7), Biloxi, MS, USA: Realistic DX390
(ED) Ed Deasy, Charrlottville, Va, USA: Hoka Code 3
(EG) Edward Griffin, S.Francisco, CA, USA: Drake R8/ATS803A/AOR8000/R7100/R1
(EW) Eddy Waters, Collinswood, Australia: NRD 525, R8, Hoka Code 3
(FM) Fabrizio Magrone, Forli, Italy: JRC NRD535
(GD2) Guy Denman, Portsmouth, UK: NRD525, FRG100, Hoka Code 3, PK232
(GG) Gary Glaze, Willamette Valley, Or, USA: DX440
(GT) Graham Tanner, London, England
(HH) Harry "Hero" Hofmann, Zwolle, Netherlands: Yaesu FGR100
(HL) Henk Lammertink, Doesburg, The Netherlands, Lowe HF+PR150, Hoka Code 3 Gold
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(HW) Hans Wildschut, Zutphen, the Netherlands: Lowe HF225 with 12m wire
(JD2) John Doe, London, England (by mail)
(JEB) Jason Berri, Torrance, Ca: R-2000, M-1000
(JH) Jeff Haverlah, Houston, Tx, USA: R5000/R7/FROG7/RFB65
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(JP) Jim Pogue, Memphis, Tn, USA: R-2000, Sony 2010
(JP2) Jacques Pagnoux, western France: NRD535, AOR3000A
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(JSM) J."Steve" McDonald, Port Coquitlam, BC, Canada: R71A, M6000
(KS) Keith Stein, Woodbridge, Va, USA
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(MC2) Mark Chinsky, Glenhead, NY, USA: R5000/TS450S-AT/M400/PK232MBX
(MD) Mike Dixon, Orlando, Fl, USA: DX-394
(MF2) Mark Fink, S. Florida, USA: SW8
(MH2) Matt Hassock, SE London, England: AR3030
(MS2) Matt Stutterheim, New London, Ct, USA: (2)IC R71A's, R7A, R9000
(MS4) Mohammad Sultan, Port Louis, Mauritius: NRD535D, Universal M-1000
(PR) Paul Robbins, Nuneaton, Warwickshire, England: IC-R72
(PS) Paul Scalzo, Montreal, PQ, Canada: R2000, M7000 v.7
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(RB) Rick "RD" Baker, Austintown, Ohio, USA: Icom R71A, Icom R72, M-1000
(RC) Roger Caird, Dublin, Ireland: AOR AR3030, AR3000, HOKA Code 3, PC-HFFax
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(RT3) Rolfe Tessem, New York, NY, USA
(SB) Steve Bottom, Cairns, Australia: FRG7700
(SM) Stuart McMurtrie, Surrey, UK: Racal 1772
(SS) Stan Scalsky, Leonardtown, Md, USA: IC-R71A, M7000, Code 3
(SW2) Steve Walker, Surrey, England: HF225
(TB) Tim Braun, Haymarket, Va, USA: FRG-100
(TR) Tom Roach, San Jose, Ca, USA: Watkins-Johnson HF-1000, NRD525
(TT) Tim Tyler, Ypsilanti, Mi, USA: Kenwood R5000, Sony SW55, TS50, AR8000, MVT7100
(WdM) Wim de Mol, Wezep, the Netherlands: Lowe HF-225
(WP) William Phillipson
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex

enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ Vol. 2, No.06 June, 1996 ////
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Edited by Richard Baker
WUN Electronic Edition Editor
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To become a WUN member, send e-mail to the WUN listserver at: majordomo@grove.net and in the BODY of the message type: subscribe wun your@own.address

If you have problems in this, or need further information contact Rick Baker at: utelistener@msn.com or ae411@yfn.ysu.edu

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN Publishing, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

If you are reading this newsletter from another source, such as a BBS, please let us know!

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From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

WHAT'S INSIDE:

o Membership News by Mike Wolfson
o International Civil Aero by Tony Orr & Peter Ivakitsch
o Ask WUN! by Colin Goodall
o Digital Review by Ary Boender
o The WUN Military Column by Jim Pogue
o New Products, Books, News and Reviews by R.D. Baker
o Nautical News by Jim Pogue
o The QSL Report by Martin Barry
o Utility Round-up by Ary Boender
o Worldwide Bandscan by Tim Braun
o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director

WUN-v02
mwolfson@bright.net

For those of you living in the northern hemisphere, welcome to summer. For those of you to the south, you have my sympathy about the start of winter. Considering the winter we had, sympathy is probably an understatement. In any case, its June and welcome to the June edition of the WUN Membership News.

In a year and a half, we have grown by leaps and bounds. That point is proved as we cruise past the 1,000 member mark. The stats as of the beginning of the month show members as follows:

WUN	633
WUN-DIGEST	66
WUNNEWS	188
Mail Edition	40
BBS's (non-e-mail)	147
Total members	1,074

For the heck of it, I compared this month's membership totals with those from last year. In June 1995, we had 307 WUN members and 104 WUNNEWS members. It doesn't take much math to show that we've more than doubled in total since then.

The membership this month has logged on from 29 countries. Those countries are: USA, UK, Canada, New Zealand, Australia, Netherlands, Germany, Belgium, Italy, Taiwan, Switzerland, Sweden, Norway, Portugal, Peru, Japan, Ireland, Brazil, Great Britain, France, Greece, Poland, Finland, Austria, Mauritius, Spain, South Africa Denmark and Iceland. As always, welcome to those of you reading this for the first time.

I'm going to repeat my request for input to the member database. If you're a new member, you received the information about how to complete the survey with your welcome to the club. Long time members can refer to past columns for the information being requested. It's going to be a short column this month, I don't seem to have the time for a more extended review. Have fun and good listening. Mike

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Welcome again to another fine edition of International Civil Aero with your hosts for the evening, Tony, Peter and the ever humorous Vic bringing you more information than you probably want! What an excellent turnout we had this with a whopping contributors taking the time to send in their reports! We thank Stephen Birchall, Rob Davies, Wim de Mol, Ringo Starr, Chris Swann, Fred Schneider, and the Monitor. We've got tons to get to so...

**********SELCAL CORNER**********

Dear All, it seems at last that all my pleas for selcals and news have come to fruition with several people contributing this month - long may your enthusiasm continue! It is only unfortunate that I haven't been able to devote as much time to the section this month as I'd like to due to illness so I am only going to list new selcals and leave the tie-up requests until next issue.

* NEW SELCALS *
AC-DR F-WWAQ A300 JAS
AD-EG N625PL B747 CKS
AL-HJ F-GPVB DC10 LIB
BG-MR G-CIVH B747 BAW
BG-MS G-CIVI B747 BAW
BL-AJ 9M-MAV DC10 WOA

BM-EK N517MC B747 GTI
DF-AP G-OBMO B737 BMA
DF-LM N104CK L101 CKS
DS-FG D-ACLW CL65 DLH
ER-LM PH-BZE B767 KLM
FK-BL V2-LEH DC10 SKJ
FM-CH N533MD DC10 KJC
GM-DJ F-GTOM B747 CRL
HM-GK HB-IID B737 TSW
HR-PQ G-VBIG B747 VIR
HR-PS G-VSUN A340 VIR
JK-GH G-DMCA DC10 MON
JM-EL G-GOKT DC10 CKT
JR-AG EC-276 B767 AEA
JR-CK D-AIGL A340 DLH
JS-PR N415FE A310 FDX
KM-FJ EC-311 MD83 SPP
KS-DH N839AD A310 AJM
LP-AR S2-ADE A310 BBC
LQ-BR OO-LTV B737 EBA
LR-AB D-ADBI B737 BAG
LS-CP EC-GEQ B737 AEA

Credits this month then go much appreciatively to Steve Birchall, Wim de Mol, Chris Swann, Rob Davies, Fred Schneider, and finally The Monitor.

**********EASTERN LDOC**********

In recent log postings to the WUN list, Ken Wyndka and Rick Baker have noted the appearance of a new LDOC on 10075 and 13330 IDing as Eastern Radio. This new station appears to be a Continental Airlines LDOC working CO flights to South and Central America and the Caribbean from a presumed Houston, Texas location. To make it a bit easier to ID the CO flights you may hear on these frequencies, we present to you a list of flight numbers, routes, aircraft types and frequency of operation. I have omitted some flights that would most likely use VHF all the way but this should be a nice representation of CO service to that area of the world:

Flight #	Route	Days	Aircraft	
CO230	SJU-EWR	Daily	72S	
CO239	EWR-SJU	x3	72S	
CO242	SJU-EWR	Daily	72S	
CO267	EWR-SJU	Daily	72S	
CO291	EWR-SJU	7	733	
CO293	EWR-SJU	6	72S	
CO294	SJU-EWR	x3	72S	
CO296	SJU-EWR	7	733	
CO702	Guatemala-EWR	6	757	
CO703	EWR-Lima	Daily	757	
CO704	Lima-EWR	Daily	757	
CO716	Bogota-IAH	Daily	757	
CO717	IAH-Bogota	Daily	757	
CO719	IAH-Salvador	Daily	72S	
CO720	Salvador-IAH	Daily	72S	
CO721	IAH-Guatemala	Daily	72S	
CO722	Guatemala-IAH	Daily	72S	
CO724	Montego B.-EWR	67	733	
CO725	EWR-Montego B.	67	733	
CO728	Guatemala-IAH	356	733	
CO729	IAH-Guatemala	356	733	
CO730	Panama-IAH	x35	733	
CO731	IAH-Panama	x35	733	
CO732	Bogota-EWR	Daily	757	(flight originates in Quito)
CO743	IAH-Managua	1246	733	
CO744	MEX-EWR	Daily	733	
CO745	EWR-MEX	Daily	733	
CO746	Managua-IAH	2357	733	
CO753	IAH-Panama	Daily	72S	

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CO754       Panama-IAH     Daily 72S (also operates from Guayaquil/Quito)
CO763       IAH-Belize     x24   733
CO764       Belize-IAH     x24   733
CO765       IAH-Acapulco   367   72S
CO766       Acapulco-IAH   367   72S
CO769       San Pedro Sula-IAH
                           Daily 733
CO775       San Jose-IAH   Daily 72S
CO776       IAH-San Jose   Daily 72S
CO790       San Pedro Sula-IAH
                           167   733
CO797       IAH-San Pedro Sula
                           567   733
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**********AIRLINE NEWS**********

THE WORLD COMES TO ATLANTA: SUMMER OLYMPICS 1996...the Games bring a few extra operators to ATL this month with extra and/or added scheduled flights. Remember that there will be innumerable charters giving the HF aero DXer an excellent opportunity to hear unusual airlines operate to the United States. SCANDINAVIAN has added SK1942 ATL-EWR-CPH 767-300 service operating on 24 July only, SK1916 ATL-CPH 767-300's on Wednesdays only effective 31 July, SK1914 ATL-CPH 767-300s operating on Tuesdays effective 30 July, and SK1913 CPH-ATL operating on 23/24 July and Tuesdays effective 30 July. LUFTHANSA has added LH446 FRA-ATL A340's operating 18/24 July and LH447 ATL-FRA A340's operating 18 July/24 July, and has routed it's LH498 FRA-MEX nonstop through ATL on 15 July with 747 equipment. FINNAIR operates AY140 ATL-HEL on Tuesdays with MD11's effective 30 July departing 2030 arriving 1230+1, AY139 HEL-ATL operates on 16 July departing 1125 arriving 1425 also with MD11 equipment, and effective 30 July AY139 departs HEL 1530 arriving ATL at 1830 with MD11s. Next in line is BRITISH AIRWAYS switching their BA226/227 flights from DC10's to 747's for the Olympics and adding BA1226 ATL-LGW and BA1227 LGW-ATL operating Mondays effective 29 July. These flights are operated by DC10's. AIR FRANCE is plying the CDG-ATL route with the following sked: AF7852 CDG-ATL operating 13 July with a 747, AF7853 ATL-CDG operating on 13 July/17 July with 747's, and AF7854 CDG-ATL operating 17 July also with 747 equipment. SWISSAIR rounds out our survey with SR1122 ZRH-ATL operating 18 July with an MD11, SR1123 ATL-ZRH on Tuesdays effective 30 July and SR1122 ZRH-ATL also on Tuesdays effective 30 July both with 747-300 equipment. SOUTH AFRICAN AIRWAYS has also added continuing flights to ATL from Miami and New York: look out for SA9203 Johannesburg-Sal-Miami-ATL on Wednesdays/Fridays effective 17 July, SA9201 Johannesburg-Sal-JFK-ATL on Tuesdays effective 16 July, and SA3201 operating on 29 July only JNB-Sal-JFK-ATL. From ATL back to Johannesburg the flight numbers are SA3202/9204/9202. IBERIA continues to add new A340's to its schedule and has added some special one-off flights this month. They are now operating two daily Madrid-Miami roundtrips with A340's as follows: IB6171 MAD-MIA dep 1210 arr 1510, IB6170 MIA-MAD dep 1725 arr 0750+1; IB6102 MIA-MAD dep 2245 arr 1310+1, IB6143 on Mondays/Wednesdays/Fridays with DC10's MAD-MIA, IB6151 MAD-MIA with DC10's on Tuesdays/Thursdays/Sundays, IB6105 on Saturdays with the A340. To/from JFK it's now IB6255 on Fridays/Saturdays MAD-JFK with A340's departing 1200 arr 1345. IB6251 reverts to the DC10 with daily MAD-JFK service, IB6250 JFK-MAD with DC10's excluding 28 July when it routes through Washington-Dulles with a 747, and IB6254 JFK-MAD with DC10's. Confused? Well read on! That special IB6250 on 28 July departs IAD at 1855 arriving MAD at 0740+1 and IB6400 is routing MEX-BOS-IAD on 26 July only deaprting 0045 arriving 1305 with 747 equipment. Switching to South America, IB6741 MAD-BOG operates on Tuesdays/Thursdays/Saturdays with A340's, as does the IB6740 BOG-MAD return. IB6821 MAD-GRU and IB6820 GRU-MAD also are A340's for the time being. USAir has quietly built up a nice little Transatlantic hub at Philadelphia. All flights are operated by 767-200ERs and are daily except where noted:

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US2    PHL-FCO   dep 1955 arr 1025+1 (note except Tuesdays)
US3    FCO-PHL   dep 1215 arr 1600   (note except Wednesdays)
US11   MAD-PHL   dep 1200 arr 1440
US12   PHL-MAD   dep 1955 arr 0910+1
US14   PHL-MUC   dep 1925 arr 0930+1
US15   MUC-PHL   dep 1205 arr 1535
```

US16	PHL-CDG	dep 1915 arr 0840+1
US21	CDG-PHL	dep 1000 arr 1215 (note Sundays only)
US22	PHL-CDG	dep 1735 arr 0700+1 (note Saturdays only)
US893	FRA-PHL	dep 1225 arr 1520
US894	PHL-FRA	dep 1940 arr 0935+1

And we close with the latest information on WORLD's new Newark-Johannesburg service with scheduled stops in Dakar. WO500 operates EWR-DKR-JNB excluding 5 July departing JFK 2030 arriving Dakar at 0800+1 and Johannesburg at 1940+1 on Tuesdays/Thursdays/Fridays/Sundays, and the return WO501 operates JNB-DKR-EWR excluding 6 July departing Johannesburg 2230 arriving Dakar at 0455+1 and Newark at 1015+1 on Mondays/Wednesdays/Fridays/Saturdays with MD11 equipment. Remember all times listed are local.

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Let's all put our hands together to give all our contributors this month a round of thunderous applause for making this edition of ICA happen! I guess all our whining and pleading did the trick, eh? ;-) From all of us at the INTERNATIONAL CIVIL AERO team, we'll see you again next month, 73 and best of DX!

==========

ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor

****

This new section is here to deal with requests for help and information to and from WUN members. This column is for you to ask questions; to locate others with similar interests (even non-HF like SatCom or VHF aero); to locate or sell equipment; to ask about receiver problems, or to just ask about anything. If you have a question to ask then ask it via this new section.

Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.

IF YOU WANT TO REPLY TO AN ADVERT NOTE THE SENDERS ADDRESS
AND REPLY DIRECT OR SEND THE ANSWER TO THIS COLUMN.

****

1. FOLLOW UP TO PREVIOUS NEWSLETTERS

****

From: ary@bitbike.com (Ary Boender)
To: colin.goodall@sspdl.co.uk

Hi Colin,
John from London was looking for the location of several stations. An anonymous dxer DFed the signals and came up with the following:

9130 and 19860 kHz originate from some 300 km south-east of Tel Aviv possibly Saudi Arabia. <my comments: as far as I know the British still have SW facilities in Oman. This is more likely than Saudi Arabia>

8564 kHz was almost impossible to DF because of a beacon on the same freq. The signal seems to come from southern Europe, most probably Italy. <my comments: the test tapes that John heard were in French, so it is a very good possibility that the station is either in southern France or a French UN detachment in Italy> Regards, Ary

.....

From: David Wells <david@excess.demon.co.uk>
Subject: SONY SW100

Hello Colin,
You may recollect my mail to you re problems with my Sony SW100 World Band Radio. Many thanks for posting my query to the WUN group.

The outcome is as follows. The radio was 17 months old and out of warranty. I contacted SONY UK in THATCHAM and they advised me to get it repaired at one of their approved repair facilities and that they would give me some assistance with the repair cost under their "Goodwill" programme.

I sent the radio to S.E.S Dulwich Ltd, Orpington who were very helpful. They repaired the radio and gave me details of the problem/repair. They told me that the problem is a common one with the SW100 in that the ribbon cable between the hinged cover (LCD Display) and main unit fails. Sony have introduced a modified ribbon cable which SES fitted to my radio. The Sony mod number is GA-00496.

I submitted the paid invoice to Sony UK who sent me a cheque for half of the repair cost which included my post and packing costs. So I have the radio back now and it is working fine and I believe the outcome was reasonable. Please distribute these details to the WUN group. They may be of help to someone out there.

Best regards, David.

Great news David, and confirmation of how good some manufacturers can be when approached directly.

.....

2. HELP WANTED
****

Further mysterious stations have been brought to my attention by my special correspondent, John of London, who you will remember is able to catch some most unusual transmissions. Here are some more for all you detectives out there:-

The following all have a shift of 1360 Hz and according to Code 3 have a baud rate of 110; each frequency is active for 7 seconds once per minute and always at very precise times past each hour; e.g 00, 7.5, 15, ...52.5. These transmissions appear to be encrypted but says John, 7 seconds is hardly sufficient to be sure. They have been active for some years now.

Are all the transmissions from the same station? Are there any others? Are there any other stations out there using 1360Hz? Any information on ANY station using 1360 would be of interest to John.

So here are the known frequencies:-

3295.3 @ 52.5 minutes past the hour; 5436.02 @45; 5436.2 @22.5; 6353.96 @37.5; 6354.14 @15; 8459.98 @30; 8460.16 @7.5; 12726 @22.5; 12726.02 @52.5; 12726.2 @00;16096.57 @45; 22139.28 @7.5;22139.3 @37.5.

John reports that where the transmissions are close together they are different and overall the signal strengths do vary considerably.

Go to it monitors!

.....

SPECIAL REQUEST

I have had a special request from Tom Jansen who asks that any members who having asked a question, get any replies direct, could they please let us have some feedback here in the column on such replies. There are, it seems, many people out there who would like to see the replies to the various questions raised. Also a reply to the column allows anyone who is interested to join in should a subject develop into new monitoring group. OK? Thanks.

.....

From: Jeroen Beijer <jeroen.beijer@tip.nl>
Subject: UHF SATCOM

Dear Colin,

I am looking to exchange information and logs regarding UHF SATCOM. I have been monitoring SATCOM for two years and have made a number of

interesting logs. I use an AR1000 with a JIM M-75 amplifier and a (home-made) 8-element crossed-yagi.

Surely there are other people out monitoring these sats. I would like to hear from them and also answer questions from people who would like to start monitoring SATCOM. I can be contacted at the above e-mail address. Thanks and regards Jeroen Beijer

Thank you Jeroen, a nice offer to anyone interested in this subject.
.....

Subject: Ute Addresses Wanted
Reply-To: JSteph6711@aol.com

I'm looking for the current addresses for the following utes, all of which I have had reports returned for incorrect addresses, etc. All reports were sent using the addresses in the badly-in-need-of-updating "Utility QSL Address Guide" by Symington and Henault:

1) HKC and HKB, Colombia (Looking for the address for the national telecom agency, ENTEL). I had been given this address within the last year, but my reception report was returned marked "Not At This Address"

Empresa Nacional de Telecomunicaciones (ENTEL)
Carrera 23 No.14-49
Bogota
Columbia

2) Beacon DPP, Luis Munoz Airport, Puerto Rico

3) WFZ, Tidewater Marine "Morgan City", Louisiana, U.S.A.

Please post this in the next edition of the WUN newsletter. Any help from the WUNers would be most appreciated.

73 -- J.D. Stephens JSteph6711@aol.com

Well Chums any info for JD?
.....

And with that it brings us to the end of another programme.

Till next time,
Colin.
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END END END END END END END END END END END END END END END END END

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DIGITAL REVIEW
[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Hi y'all. First of all I'd like to thank Day Watson for taking over the column last month. Great job, Day ! Studies and holiday forced me to step back last month. Well, the holiday is history now but the studies not, I'm afraid :-((This means very little time to tune in, but I'll try to fill my columns with interesting stuff anyway. It would help a lot though if you all sent me your findings, news, comments, etc etc. Right, back to digital items. Version 4.0 of the DIGITAL FAQ is now available and it is even better than before. Many modes and additional decoders were added. Stan, Mike, keep up the good work !

HELP WANTED !!!
For future Diplo Corners, I need info about diplo stations belonging to the following countries: Iran, Iraq, Mongolia, Japan, North Korea, and South Korea. I am looking for freqs, skeds, transmission modes, sample

messages and every other thing you can think of. Please, send the info to one of the addresses in the header. You may remain anonymous if you like.

o CNA Taipei.
According to the BBC Monitoring Service, the Taiwanese press station CNA stopped all RTTY broadcasts. They are now on the Internet. Try this for a change: http://www.cna.com.tw

o Klaus Betke (KLAUS@aku.physik.uni-oldenburg.de) sent us the following message: ''On June 1, Warsaw Meteo, POL, was conducting fax test transmissions via SOA211 on 111.4 (estimated center frequency). At 1000z there was a 700hPa 48h prog chart for Europe, Polish borders marked by a bold line. Only half of the scanning line was filled with the chart, the rest being black. QRM by LORAN, and by DECCA on the other side. Later they switched back to their regular RTTY transmissions, with occasional frequency glitches.''
Thanks for the info Klaus. Keep us posted !

o SOUD update. Guy Denman sent me the current sked for the fixed links.

Freq	UTC	callsign to	link	in contact with	last heard
5775	1525	WQL	80061	VNB 6862	27 March
6862	1525	VNB	80061	WQL 5775	27 March
6798	1840	KUL	00142	Broadcast	23 April
8059	1755	RVC47	20087	RBP71 9237	26 March
9237	1755	RBP71	20087	RVC47 8059	26 March
10287	1730	JSC	00190	?	23 April
10482	0845	VNB	80061	WQL 13423	19 April
10482	1525	VNB	80061	?	24 April
10582	1420	KUL	00142	Broadcast Rpt of 12193	24 April
10767	1425	BFR	00030	?	22 April
12193	1410	KUL	00142	Broadcast Rptd on 10582	24 April
13880	0710	RAU	00070	Broadcast	2 May
13506	0910	UXW	40034	?	19 April
13423	0845	WQL	80061	VNB 10482	19 April
14364	1340	?	20087		April
14980	1410	RAU	00070	Broadcast	21 March
15735	1730	FQX	60003	?	23 April
16273	1410	?	00098		April
16305	0930	UGO	50079	?	2 May
16320	0930	?	40078	?	3 May
18093	1420	?	60003		April
18422	1410	?	10024		April

One of our other monitors writes that the Moscow brotherhood station has been active all day long on 9 June on 13530 kHz in 50 bd, sending the following very strange 5 FG message over and over again (note the repetitions !)

11177 12311 23121 07342 01909
12341 23448 69876 87698 69876 88295 38743 20980 92809 02976
32670 27364 92836 09428 61208 74982 36498 32764 81276 01276
30986 40932 70987 32123 49817 26346 81287 65491 87364 81267
98721 75654 55656 12737 72727 72727 91918 63473 67867 76732
86723 87629 37677 32612 53498 71296 28756 18276 98716 87326
87269 76329 74698 76857 98670 27601 56701 57601 73648 15728
76591 87364 87265 96710 27630 12673 84769 28743 98127 59876
29458 63298 75698 27465 87326 49876 28376 81273 98615 62875
69867 87432 74328 78674 29867 32867 67867 86786 43286 43286
65467 68768 68763 34234 34238 68768 62342 48273 48768 23487
12936 98432 32432 86743 43286 43286 43286 43286 43286 43286
86743 86743 86743 39867 32867 86743 43286 43286 43243 86743
86741 86743 86743 86743 86743 86743 86743 86743 86743 43543
87543 98798 98754 98754 98754 98754 29867 67543 67986 86754
69876 87698 69876 87698 69876 87612 12341 34867 86798 63298
69867 43298 65656 56756 56123 32143 14321 32143 14321 32143

14321 32787 58765 76587 58765 76587 58765 76587 58756 76587
76654 75456 36543 54365 36543 54365 36543 54365 36543 54356
36543 54365 35643 54356 36543 64356 35643 54356 36543 33333

o Nikao Radio (ZKRT) from Rarotonga, Cook Islands transmits daily a SURFACE ANALYSIS at 1905 UTC on 12215.5 kHz.
This service is maintained by Arnold Gibbons (agibbons@gatepoly.co.ck) as a individual operation, for the benefit of cruising yachties about the South Pacific.
The map is prepared by Fiji Met Service based on 12Z data, then coded in IAC Fleet code, and sent by MetService New Zealand using e-mail to Rarotonga where Arnold's PC converts it into a GIF-map ready for transmission. Austin Whitten, a computer analyst and cruising sailor who has decided to stay a while at Rarotonga, has setup the e-mail link and computer programs. (Source: Bob McDavit -MetService Auckland- and Austin Whitten via Marius Rensen)

o Al Marote (almarote@vero.com) copied on Armed Forces Day this message from US Secretary of Defense on 6998.0 at 0340 UTC 100b/170hz Baudot

0151.5/14488.5/:8212.5 AMTOR FEC
DE AAH FT LEWIS WA RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR
YRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR
YRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRERYRYRYRYRYR
YRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR
QRX 0330Z 6988.0/10151.5/14488.5/18212.5 100 WPM RTTY
    0430Z 6988.0/10151.5/14488.5/18212.5 PACTOR FEC
    0530Z 6988.0/10151.5/1488.5/18212.5 AMTOR FEC
DE AAH FT LEWIS WA RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR
YRYRYRHRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR
YRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRZRYRYRYR
YRYRYRYRYRYRYRYRYRYRQRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYJYRYR
QRX 0330Z 6988.0/10151.5/14488.5{18212.5 100 WPM RTTY
    0:30Z 6988.0/10151.5/14488.5/18212.5 PACTOR FEC
    05-0Z 6988.0/10151.5/14488.5/18212.5 AMTOR NEC
DE AAH FT LEWIS WA RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR

.....MESSAGE FOLLOWS.....

FM AAH FT LEWIS WA
TO ALL AMATEUR RADIO AND SWL OPERATORS
GRNC
BT
SUBJ: ARMED FORCES DAY RADIO TELETYPEWRITER MESSAGE
N
AMERICA'S ARMED FORCES: PILLARS OF FREEDOM IS THE THEME FOR OUR 47TH ANNIVERSARY CELEBRATION OF ARMED FORCES DAY. THIS DAY IS SET ASIDE FOR US TO REFLECT ON OUR SERVICE MEMBERS, THEIR SACRIFICES, AND SUPERIOR CONTRIBUTIONU TO OUR LIFE, LIBERTY, AND FREEDOM. THERE IS ANOTHER MEMBERSHIP THAT PERFORMS A CRITICAL SERVICE TO THE MORALE AND WELFARE OF OUR MILITARY. I COMMEND THE AMATEUR AND MARS RADIO MEMBERS AND THEIR FAMILIES FOR THEIR IMMEASURABLE CONTRIBUTIONS OF TIME, EXPERTISE, AND PERSONAL RESOURCES IN SUPPORT OF OUR NATION. THIS IS ALSO YOUR DAY. I WANT TO EXTEND A HEARTFELT THANKS FOR YOUR OUTSTANDING COMMITMENT TO THIS NATION'S FREEDOM.
SIGNED WILLIAM J. PERRY, SECRETARY OF DEFENSE.
BT
NNNN

END OF TRANSMISSION.....

o MOSSAD update
Several members copied Mossad using a new digital mode (new for Mossad that is...)

14781.5 CJL, Mossad, Tel Aviv, 1154, Baudot 100, ry's and then "QSA 4", station changes to ARQ-E 96
14781.5 CJL, Mossad, Tel Aviv, 1154, ARQ-E 96, sends 5 5lg's, "QSX", and

then off air

On Sunday 09/06/95, the Mossad could be heard testing in a new RTTY mode. Frequencies used in parallel were the following channels:
14750.2 kHz 75 Bd / 100 Hz
14750.5 kHz 150 Bd / 100 Hz
12376.2 kHz 75 Bd / 100 Hz
12376.5 kHz 150 Bd / 100 Hz
10352.2 kHz 75 Bd / 100 Hz
12352.5 kHz 150 Bd / 100 Hz

The transmitter was the same one that used for the CIO transmissions. The RTTY traffic was starting off between H+20 in 75 Baud and a few minutes later jumping up 300 Hz and switching to 150 Baud. At H+25 the station started all over again. On some occasions another RTTY broadcast could be heard at H+30. A full carrier is part of the system. The system has a very distinctive 28 bit pattern when idling and when sending tfc, you can clearly see a huge maximum at 224 bit. The system seems to be some kind of synchronous FEC system. Every possible combination in character analysis has been tried out but nothing appeared to make sense, so the traffic is probably encrypted.
At H+45 (carrier on at H+40) the usual CIO transmissions started, with signals showing the same strength as the RTTY signals. DF-analysis on both the CIO broadcasts and the RTTY transmissions revealed identical results, pointing towards the Eastern Mediterranean area.
Also on Sunday, the transmission to CIO on 14750 kHz at 14:45 UTC carried ARQ-E-288 audio from C37A, who was busy on 16312.5 kHz.

o Irish military update.
The following list of freqs is used by the Irish Air Corps Fishery Patrol Casa aircraft.
A 3060, B 5375, C 5708, D 5724, E 5769.5, F 6682, G 6766, H 8980, J 9020, K 11265, L 13210, M 13250, N 15053, O 15074, P 17990, night 2440 and day 4450 kHz.
Ed Deasy copied G-Tor tranmissions on 14637.9 with the callsign "MOVIL 1". The Irish Air Corps does use G-Tor on 5.690 and ch 73 in the marine VHF band as well.
On 1st April at 1808Z "Zero A" was selcalling MPCY on 4751.5. The Spanish police were also on freq in SITOR A and this appeared to annoy "OA" who sent millions of MPCY selcals!!
Some of the Navy abbreviations sorted out:
- FLO = Flotilla Liasion Officer (Flotilla = Detachment)
- NCC = National Co-Ordination Centre.
- COL CKD = Collation Checked (ref to number of 5-letter groups in msg)
- SOO OPS = Senior Officer of Operations (not 100% sure)

o Russian digitals.
The Russian 81-81 mode is very popular nowadays. A reliable source tells me that 81-81 in its 81 baud variant is used by the Russian Civil Railway Authority and the 40.5 and probably also the 36 baud variants are used by various Russian military elements. The Navy is a heavy user of 40.5 baud variant.

Diplo Corner

First this sad news from Ireland: The RTTY HF diplo transmissions have recently discontinued. The rotator for the large log-periodic beam on the Dept of Foreign Affairs seized-up, and the antenna has been removed. All comms are currently by satellite or land line.
I am sorry to hear this. Guess we don't have to cover this country in the Diplo Corner..... Oh well, the show must go on so this month we'll focus on Egypt. Many thanks to Day Watson, Mike Chace and NN..... you know who you are :-)

o Logged frequencies:
As notorious for continually changing frequencies it is impossible to maintain a reasonably accurate list. The following frequencies have been logged.

5067.7	6449.7	6742.7	6786.7	6789.7	6811.7	6845.7	6900.7
7631.7	7731.7	7746.7	7756.7	7789.7	7800.7	7811.7	7931.7
8101.7	8106.7	8151.7	8166.7	8966.7	9106.7	9111.7	9141.7
9221.7	9241.7	10061.7	10151.7	10172.7	10334.7	10391.7	10401.7
10411.7	10416.7	10591.7	11023.7	11026.7	11036.7	11045.7	11214.7
11216.7	11241.7	11281.7	11287.7	11416.7	11467.7	11521.7	11567.7
11571.7	13346.7	13351.7	13378.7	13381.7	13401.7	13481.7	13486.7
13506.7	14501.7	14506.7	14516.7	14621.7	14643.7	14645.7	14901.7
14904.7	14909.7	14943.7	14951.7	14966.7	14990.7	15043.7	15053.7
15541.7	15549.7	15681.7	15701.7	15716.7	15801.7	15809.7	15926.7
15938.7	15966.7	16003.7	16021.7	16071.7	16091.7	16151.7	16171.7
16316.7	16318.7	16345.6	16346.7	16370.7	17131.7	17363.7	17476.7
17481.7	18021.7	18036.7	18041.7	18046.7	19053.7	18101.7	18134.7
18146.7	18156.7	18167.7	18176.7	18211.7	18267.7	18316.7	18334.7
18631.7	18746.7	19046.7	19051.7	19092.7	19231.7	19567.7	19801.7
19818.7	19981.7	20006.7	20036.7	20046.7	20056.7	20076.7	20101.7
20141.7	20151.7	20221.7	20976.7	23016.7			

o Reported frequencies:

5076.7	6711.7	6781.7	6871.7	7726.7	7728.7	7823.7	7871.7
9102.7	9124.7	9186.7	9216.7	9226.7	9313.7	9316.7	9331.7
10016.7	10031.7	10161.7	10241.7	10401.7	10417.7	11166.7	11241.7
11291.7	12219.7	12469.7	12546.7	13176.7	13318.7	13341.7	13446.7
14043.7	14046.7	14101.7	14334.7	14445.7	14451.7	14543.7	14551.7
14821.7	14867.7	14961.7	14971.7	14986.7	15021.7	15047.7	15889.7
16009.7	16011.7	16013.7	16020.7	16141.7	16147.7	16156.7	16171.7
16203.7	16327.7	16321.7	16327.7	16331.7	16501.7	17171.7	17236.7
17464.7	17576.7	17961.7	18005.7	18033.7	18201.7	18216.7	18251.7
18668.7	18721.7	18751.7	19036.7	19041.7	19286.7	19486.7	19818.7
20304.7	21011.7	21376.7	23006.7	25063.7			

o Transmission modes used:

```
Sitor/A  100bd E  170
Sitor/B  100bd E  170
TWINPLEX 300/-100/100/?
```

o Notes on operation:

```
[SAT][SUN]
# Dual frequency.
# Uses ATU80 Arabic
# Occasional English header/text
# Off line encryption.
# Message ends with HUXD.  Transmission ends with YKS YKS
# Frequencies are always at .7
# Numerics eg date/time are written right to left.
  eg: 0381 42/1/2991 is 1992/1/24 1830  or 24 Jan 1992 1830LT
# Times are local.
# Signals may maintain a constant mark or space between bursts. This is
  considered Cairo only who has access to higher powered transmitters
  required for the high duty cycle. This transmission method allows the
  embassy to use AGC where the signal strength is weaker/fluctuating at
  the embassy location due to limited aerial configuration. Embassies
  are unlikely to have other than low power transmitters thus unable to
  utilise this high duty cycle mode.
```

o Reported callsigns/selcals for MFA and embassies:

selcal	Location	selcal	Location	selcal	Location
KKBB	Kinshasa	RCVB	Washington	XBKX	Berne
KKKE	MFA Cairo	RCVT	Washington	XBVA	London
KKVA	Lagos			XBVC	Vienna
KKVB	Addis Ababa	SSBB	Prague	XBVF	Madrid
KKVD	Conakry	SSBE	MFA Cairo	XBVK	Berne
KKVE	Bamako	SSBT	MFA Cairo	XBVM	Bonn
KKVI	Dar es Salaam	SSBU	MFA Cairo	XBVP	Rome
or	Lusaka?	SSTA	MFA Cairo	XBVQ	Paris

KKVK	Accra	SSTD	MFA Cairo	XBVS	Nicosia
KKVO	Ndjamena	SSTI	MFA Cairo	XBVY	London
KKVR	Dakar	SSTO	MFA Cairo		
KKVU	Accra	SSTR	MFA Cairo	QEMP	MFA Cairo
KKVZ	Kampala or	SSTU	MFA Cairo	QEPC	MFA Cairo
	Madrid	SSTZ	MFA Cairo	QQTP	Moscow
KKXB	Kinshasa	SSUO	MFA Cairo	QQTQ	Belgrade
KKXE	Luanda			QQTX	Prague
or	Lusaka	TVQV	Riyadh		
KKXO	Abidjan	TVVC	Baghdad		
KKXR	Tunis	TVVK	Rabat		
KKXT	Nairobi	TVVM	Kuwait		
KKXU	Harare	TVVP	Abu Dhabi		
		TVVQ	Khartoum		
		TVVS	Kuwait		
OOVC	New Delhi	TVVX	Algiers		
OOVF	Pyongyang	TVXC	Abidjan?		
OOVK	Djakarta	TVXF	Madrid		
OOVP	Islamabad	TVXP	Mogadiscio		
OOVQ	Beijing	TVXS	Manama		
OOVS	Kuala Lumpur	TVXV	Doha		
OOVX	Ankara	TVXX	Sanaa		
		TVXY	Muscat		

o Dictionary:

```
bkfqsr   =   MFA
faj      =   number
jg       =   from
kds      =   to
yfasr    =   telegram
yks yks  =   bi bi
yphkg    =   embassy
dgmg     =   London
kdakrfr  =   Cairo
Khargia  =   is MFA Cairo
Boustan  =   is embassy
```

o Sample message formats:

```
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Example #1 - header in ATU80

yfasr   faj   44/25          0381        42/1/2991
jg   yphkg   dg-----mg
kds   bkfqsr kdakrfr    jwkhy    qjkor klflysr   z. klflyk  ofysr
                        nakusr    jodljkh  yphkg // jlpwl . kdfskx .

(Telegram  number  44/52  1830  24/1/1992
From  Embassy London
To    MFA Cairo       ....etc...

---------------------------------------------------------------
Example #2 - off line encrypted msg from Tripoli to MFA Cairo

from boustan tripoli
to khargia   cairo
d/t   24/12/95

44444      90090     32432

syncb ~wkdl xuaj~ ebsff qfvmv lhwka tfdfy sqffo pnwq~ eljya
rgxvi feuqp bqyec rkpgv ulcgo dwgtq jlhic zfqjz bxsmh oiqso
pwnmj hwudb avlwa aceon ~~sqv hinlg bewnm qcafi grrnl qdlym
pxprv kdoor ybflj puwso dvywf rycrn udoqq srkok owejg vrcmi
wqdzg wmpeh rgwmh hvoba mtriv qmash fildp rpypv lzwxb dxcuu
zhdbb rbqgz vqibi svpus dgarf arzpw ujlga axmly sbnwi caqnc
yqirr zjpxe avrgr hmsni ycje~ gocxz dlmrc fosjw hucph gqitr
kyvua xxdrb cktit qqpma rdd~u bhbor oianx scgjl voipj ygxnr
ufxhy ibil~ rfkkk addyu keigd gqtqq nccme rebmx oktlo ogxph
```

fijjq ydmiv zbvxs fuyaj zsfgd zhgpq jshdi uewau jlqcx miepo

<clip clip clip>

kekck kxqcl pmdtj fnvnm ugqlg keqmv gwcax ypifb ejgag lfirx
eljnd syqmf iefqn rcklm kvheq aigdb urgld lhebq akgea qcrix
qayhu jqpwl wfuyg udyrc cxewm hdlvg npreu okqks btlwq odeex
jilqo acsbg tjwet ortkp ruomi wvtrx ivdfk clidu hanqs endsy

0480 groups
ambassador
ahmad whdan
++++++

That brings us to the end of this month's Digital Review. Thanks everyone for your contributions. CU all next month. Enjoy ! -Ary-

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The WUN Military Column
Jim Pogue, editor (kh2ar@aol.com)
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No column this month from Jim. However, I did see some information from the Air Force News Service and we have other big news....RD

"ZULU'S"

The big news this month was the start of "Zulu" channel designator use by the U.S. Military. Lot's of hard monitoring by WUN Members have produced this list so far confirmed:

Z135	4745
Z145	5705
Z150	5800
Z165	6757
Z170	7831
Z175	9016
Z180	9057
Z190	10204
Z200	11181
Z205	11494
Z210	11229
Z215	13242
Z220	13245

Jeff Haverlah listed there other designators not yet found and had this to say: "They seem to be Z100; Z105; Z115; Z130; Z140; Z155; Z160; Z185; Z195; and designators above Z220 (Z235 has been referenced on the net), plus the two non zero/five designators heard referenced: Z124 and Z211. Looking at the spacing, the OR freq list posted by Larry Van Horn, the "old" designator list, and keeping in mind the Z205 monkeywrench, a prime candidate for Z100 might be 3032.0 (old W-100) with a bunch of 3 mhz USAF designated OR freqs between 3032. and 3134.0 as Z105. Candidates for Z115 might be the USAF OR freqs between 3134.0 and 3146.0. Candidates for Z130 might be 4742.0 (part of the "old" designators) or one of the other USAF designated OR freqs between 4718.0 and 4742.0. As I strongly suspect that 6715.0 is part of the ZULU plan, it could be Z160; if it is, then possibly a good candidate for Z155 would be the Beeb freq of 5875.0, a known, used, WHISKEY designator - they seem to be using most or all of the lower WHISKEY freqs in the new bandplan. If 6715.0 is Z155, then maybe something like 6727.0 or 6733.0 might be Z160. A candidate for Z185 might be the qrm magnet 9809.0, used at one time as W-107. I have no idea for Z195 (other than 11178.0.) Or, maybe none of the above. But, they'd be part of a search scheme."

The NIGHTWATCH nets have been the primary users of these designators so far. Any additions the list is appreciated!

AFMC commander lauds JSTARS by Andy M. Drury

ROBINS AIR FORCE BASE, Ga. (AFNS) -- On every front, ranging from acquisition reform to the front lines of battle, the Joint Surveillance and Target Attack Radar System, or Joint STARS, program has been a "shining example of success," said Gen. Henry Viccellio Jr., commander of Air Force Materiel Command, at an aircraft turnover ceremony Tuesday morning. The 93rd Air Control Wing accepted the first production E-8C aircraft from the Air Force Materiel Command.

The Joint STARS program, brand new to the Department of Defense, and a joint venture between the Air Force and Army, will boast a 19-plane fleet by 2004 that will be outfitted with the most advanced technology in radar and computer data systems.

The planes are the first developmental aircraft ever to be called to war. Joint STARS aircraft have been used in operations Desert Shield and Desert Storm, as well as Operation Joint Endeavor late last year. Joint STARS is a long-range, air-to-ground surveillance system that has the ability to locate and track ground targets, as well as transmit data to mobile units on the ground.

"Your teamwork both on and off the field has been a perfect model for joint operations," Viccellio said. "This is the most advanced air-ground surveillance system in the world."

In terms of acquisition reform, the program has reduced requirements for defense acquisition board documents from 46 to eight and has reduced the number of data submissions required from the contractor from 250 to 52.

Repair cycle times have been reduced by 18 percent, Viccellio said. In addition, the local depot saved more than $30 million by ensuring that Robins personnel can use existing technical data in place.

"Joint STARS is nothing less than a supernova," Viccellio continued, praising the various team players involved in the project. "This has been teamwork at its very best. We never want to fly in combat without a Joint STARS kind of system."

Gen. Richard Hawley, commander of Air Combat Command, said the aircraft has already proven itself. "It is a real tribute to the scientists, engineers, technicians and the Army and Air Force teams who had the vision to say we can build an airplane that can deliver a picture of the ground situation equivalent to what we enjoy with AWACS in the air," Hawley said. "(The planes) have gone to combat twice and saved American and Allied lives."

When the full complement of Joint STARS arrive at Robins over the next eight years, the program will employ 2,500 civilian, contract and military personnel.

Air Force redesignates AFC4A as Air Force Communications Agency

SCOTT AIR FORCE BASE, Ill. (AFNS) -- The Air Force Command, Control, Communications and Computer Agency was redesignated as the Air Force Communications Agency during a ceremony June 18 in front of the Lt. Gen. Harold W. Grant building here.

The renaming is part of the Air Force plan to integrate the Information Management functional area with the Command, Control, Communications, and Computers functional area.

"Although our name has changed, our mission stays the same," said Col. Patrick M. Ryan, commander of AFCA. "We will continue to ensure the C4 and information systems used by warfighters are integrated and interoperable.

"The name change is intended to simplify our connection to the Air Force mission," said Ryan. "We work programs supporting the entire command, control, communications, computers, intelligence, surveillance and reconnaissance range, but there comes a time to reduce the fog rather than

enhance it, and now is a good time to do so for us. We will still do all of what we have been doing, but it will be under the simple word 'communications.'"

AFCA retains its current structure of four directorates and an operating location.
The directorates are Interoperability and Technology, Systems and Procedures, Plans and Analysis, and Resources. The operating location is the C4 Technology Validation Office at Barksdale Air Force Base, La.
AFCA, a field operating agency, continues to report directly to the Air Force deputy chief of staff for Communications and Information. The Agency provides HQ USAF/SC the expertise needed to effect integration and interoperability among command, control, communications, computers and intelligence systems across the Air Force.

The Agency's role includes: planning and engineering technical support to HQ USAF/SC; engineering technical support to the major commands; and functional support to other Air Force offices and DOD agencies.

U.S. Coast Guard
Al Quaglieri found this information while web surfing:
RESCUE COORDINATION CENTER (RCC) CLOSURES
Coast Guard Atlantic Area has transferring all search and rescue responsibilities from RCC New York to RCC Norfolk VA. RCC New York is now closed. The new emergency phone number for RCC Norfolk is (804) 398-6231, fax (804) 398-6392. RCC New York telex number 127775 should be retained. Emergency calls over Inmarsat satellite telephone in Atlantic Ocean Regions East and West normally routed to RCC New York will instead be routed to RCC Norfolk. The Coast Guard has closed RCC Long Beach CA, transferring responsibilities to Alameda CA.

COAST GUARD TELECOMMUNICATIONS PHOTOGRAPHS
Photographs of the Coast Guard's new Transportable Mulit-Mission Communications Central are now available in the /marcomms/cgcomms/cgimages \subdirectory. These transportable units provide emergency secure and non-secure satellite, HF and cellular communications.

That's it for this month. Hopefully Jim will be back next month or we'll have a back-up editor. -RD

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New Products, Books, News and Reviews
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|Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column (not via the clubs D.C. address to save mail costs)|

NEW PRODUCTS
o Test und demonstration cassette Funkdienstsendungen by Siebel-Verlag

Or, Test and Demonstration Cassette of Utility Transmissions. This tape is from the publishers of the Spezial-Frequenzliste reviewed in this column in the March 1996 WUNNEWS. This is a cassette tape of various digital modes one can hear on shortwave. The purpose of course, is to give the digital hobbyist a chance to hear and actually decode these modes so that he may learn their characteristics.
Included on the cassette are: 'Messton' or BFO-pitch for 800 Hz (CW)/ 1750 Hz (most RTTY)/1900 Hz (FAX). These are useful on some decoders so you can mark the audio frequencies on the scale, the telereader CD670/660 for instance. Additionally, the length of the 3 differently pitched tones can be used to adjust or control the speed of the cassette-player used: they all are exactly 60 seconds, and if your player makes it in 57 seconds, then the 100 Bd signal from the cassette would come up with 105 Bd (= 5% faster !!). Other modes are: RTTY: (baud/shift) 50/1000, 50/425, 50/170, 75/520, 75/850, and

100/850; Sitor-A; Sitor-B; ARQ-E3 192 baud; ARQ-M2 200 baud; ARQ-E 96 baud; FEC-A 96 baud; POL-ARQ 100 baud; ROU-FEC 164 baud; SWED-ARQ; TWINPLEX; PICCOLO-6; FAX 120/576; FAX 90/576; and CW.

The digital examples recorded are mostly in German, but that's not too bad for us non-German speakers since the decoder does decode them regardless. But a little harder are the explanations of the modes in German on the tape. I had no clue other than the modes are marked on the casstte in standard abbreviations as listed above and as such, my poor German didn't matter much. Cassette tape recorders are commonly found in most members shacks, so no special equipment is needed to play the tape. I used a Realistic CTR-62 portable from 'Radio Shack' during this review. The sound was fine and the modes that I could decode on my M-1000 worked well. It was interesting hearing how some of these modes sound.

As with Spezial-Frequenzliste, there are no U.S. distributors. However it can found at your favorite seller throughout Europe or it can be ordered direct for a price of 19,80 DM, or about 20 US-$ including postage and handling. For more information contact Siebel-Verlag, Auf dem Steinbuchel 6, D-53340 Meckenheim, Germany.

NEW WEB SITES

o David Toste up in Toronto Canada forwarded the following new site:
"I just found this on the web while surfing. Looks interesting from what I saw, but it's very limited before it goes to Fee based."
Is Your Flight Is On Schedule?
HOLLYWOOD - American Weather Concepts ([17]http://www.amerwxcncpt.com) is beta testing a new Web service that promises to provide real-time flight information, Variety reports.

"Flyte Trax" (http://www.amerwxcncpt.com/FlyteTrax/flytrax.html) offers a form that asks for the airline, flight number, destination airport and state. It returns a brief status message and graphic, based on FAA data, AWC said.

Official release is set for June 1 and it will then become a fee-based service, costing $2.50 per inquiry. The service will initially track only commercial aviation but the company says general aviation data is expected in early July.

o Rory Davis sent the following about the nice folks at Globe Wireless:
Globe Wireless on the Web
Greetings fellow WUN'ers: Globe Wireless now has a WWW homepage located at: http://www.globewireless.com/
and has lots information of interest to maritime UTE DX'ers.

o Robert Margolis forwarded another maritime coastal web site:
Madrid Radio, Spain
For those WUNsters with Internet Web browsers, Madrid Radio, Spain, has an informative site at http://www.abaforum.es/is/digigrup
Move to subdirectory "nautihf.htm" and you'll find a listing (Frecuencias nauticas HF) of maritime radiotelephone frequencies around the globe that the staffers at Madrid believe would be of interest to utility station listeners, and another listing (Frecuencias de Madrid-Radio, y explicacion de su funcionamiento) containing Madrid Radio's frequencies and the corresponding ship responding frequencies, along with the hours of service on the radiotelephone channels.
For those with RTTY decoders, a second subdirectory "nautihf2.htm" provides "Radio-telegrafia y Radio-telex nautico" information, including various EAD/EDZ call signs, frequencies used, and hours of operation on each data channel.

Madrid Radio also has a subdirectory for its VHF operation, and subdirectories of interest to Amateur Radio operators, shortwave radio broadcast station listeners, and listeners of the various Amsat satellites around the globe.

All information is in Spanish, of course, but that does not interfere with understanding the above-mentioned files if you don't know the language.

o Mike Chace (mikec@praxis.co.uk) now has an updated web page for Numbers Stations...
   You can find a full list of frequencies and these stations and others on my web pages at: http://itre.ncsu.edu/radio/numbers.html

o SOMSER BBS up and running in Spain
   From: somser@besos.hnet.es (SOMSER BBS)
   This BBS is working in Spain and his address is http://www.somser.hnet.es (194.177.1.171) Now we are in a period of a test and it's going to be working every day from 20:00 to 6:00 GMT and from 10:00 to 13:00 GMT 20.000 files. 10 GB on disk. No CDROM, 50 files new per day plus 200 areas. You are a "guest". I would ask that they leave me their opinion and their comments to the sysop in order so it can improve.

   WEB (SOMSER BBS)
   Nuevo BBS que es un BBS, el primero que existe en Espa=F1a
   La direcci=F3n es: http://www.somser.hnet.es (194.177.1.171)
   Estamos en periodo de pruebas y est=E1 en funcionamiento
   desde las 22:00 a las 8:00 y desde las 12:00 a las 15.00 GMT
   Tenemos m=E1s de 20.000 en disco. 10GB sin CDROM
   50 ficheros nuevos cada d=EDa. M=E1s de 200 areas diferentes.
   Estais invitados, esperamos vuestra conexion. Agradeceria que dejaran su opinion y sus comentarios al sysop para poderlo mejorar.

   I understand this is a WUN distribution site also...ED

SHOT IN FOOT DEPT
o In the April 1996 edition of WUNNEWS in this column I reviewed the freeware program IDENT2. It was sent to me to review by Ary Boender and since no authors name was listed, I *assumed* he developed the software. Not so. Jan Terveer is the man to thank and who should be be credited for the hard work that went into IDENT2. So a tip of the hat to Jan and as Maxwell Smart use to say "sorry about that..."

Ok, all there is time for this month. Next month I hope to have done the review on the 1996 Super Frequency List on CD-ROM from Klingenfuss. Lot's more items that have come in the mail bag that I'm looking forward to sharing with you. New books, software and programs on the horizon.

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Utility Monitoring in the Maritime Bands

Editor: Jim Pogue (kh2ar@aol.com)
P.O. Box 3888
Memphis, TN 38173-0888 USA

No column from Jim this month so Marty Barry filled in to pass some info:

Something that high-seas radio enthusiasts might find useful in helping to identify the many research-oriented vessels that ply the world's oceans is the University of Delaware College of Marine Studies' online database of research ship information and cruise schedules (http://diu.cms.udel.edu/ships/). The database, which contains information on research vessels from most countries, is fairly straightforward in its use, with a surprising number of vessels entered, and a remarkable amount of information returned pertaining to individual ships.

For example, for the Alfred Needler, a Canadian fisheries research vessel working out of Nova Scotia, the following information came up:

Alfred Needler Vessel Data

Vessel and Contact Information

Alfred Needler (Canada)
Call Sign:
US NODC Code: 18NE
Owner: Department of Fisheries and Oceans (DFO)
Operator: Bedford Institute of Oceanography (BIO)
Contact: Capt. A, Adams,A/Marine Superintendent
P.O. BOX 1006
Dartmouth, N.S. B2Y 4A2 Canada
Email: BIONET.BIO.NS.CA
Year built: 82
Main vessel activity
Fisheries
Ocean area where vessel operates: Atlantic, Northwest
Main dimensions
Length OA: 50.30m
Breadth: 11.00m
Freeboard to working deck: 2.5m
Max. draft: 4.90m
Capacities and working spaces
Gross tonnage: 959GRT
Range, speed and endurance
Range: 3000n. mi.
Cruising speed: 12.0kts.
Max. speed: 0.0kts.
Endurance: 30days
Accommodation
Officers: 0
Other crew: 21
Scientists: 10
Navigation and communication Nav. equip: Radar SatNav Gyro
Construction supervised by: Classification Society: LLOYD'S
Published vessel data Magazine: Research Vessels Of Atlantic Canada

This is only a partial list of data that was returned for the Needler, and much of it could prove useful in identifying or even QSL'ing this particular vessel, or any similar one overheard on HF. Note that not all of the data-base's fields are filled in, but that some vital information missing here --such as callsigns -- might be available for other vessels. In some cases, rather than consulting a lot of hard-bound volumes of maritime or nautical information, the task may in the future be as simple as going to an Internet data-base like this and getting what you want in a fraction of the time.

# # #

Globe Wireless announced in May its takeover of the former Voice of America, Dixon, CA relay site. The former Dixon Relay Station, located eight miles Southeast of Dixon, California, will be used to connect vessels in the Pacific Ocean with land based electronic mail systems, including the Internet.

Quoting from a Globe press-release:

"The history of the Dixon Relay Station goes back more than fifty years. Construction began for the radio transmitting facility at the 640 acre Dixon site in 1943. The Voice of America used the Dixon location, starting in 1944, to broadcast information and entertainment to shortwave radio listeners in Asia and the Pacific. Until 1963, the National Broadcasting Company (NBC) operated the site under contract to the US Government. Transmissions from the Dixon Relay Station ceased in 1983.
The VOA used three Collins 250 kilowatt transmitters and two General Electric 100 kilowatt transmitters when the facility was operational. Still remaining on the site are two massive dipole curtain arrays and ten rhombic antennas, most still in operating condition. Skeletons of the GE and Collins transmitters also remain.
Globe Wireless plans to install transmitters and antennas for its maritime public coast station KFS at the new site. The current KFS transmitter location, in Palo Alto, California, will be phased out of operation over the

next few years."

And since these seem to be pretty high-times for Globe, perhaps a short rundown of their history is in order:

The name Globe Wireless was first used, in 1930, by a company previously called Dollaradio. The Dollaradio company was formed, in 1926, to communicate with the ships of the Dollar steamship line. The company pioneered the use of High Frequency radio for ship to shore communication.

The name change to Globe Wireless was coincident with the company's expansion to a public coast station. Messages were accepted from the general public for delivery to passengers aboard Dollar vessels and to land points in other countries. Messages were delivered on land, at both ends, using the local post office; the name Radio Mail was used to describe the service. It also provided point to point HF radio service between its eight worldwide shore stations.

Other developments:

1960 - Globe Wireless was sold to IT&T MacKay Radio.

1967 - Press Wireless folded; some transmitters of KTK were moved to the Palo Alto transmit site of KFS. The KTK call, and the point to point frequencies, were eventually phased out.

1988 - IT&T sold KFS to Western Union

1990 - Western Union sold KFS to private investors. The new company was called KFS World Communications.

ARA Free Press is the "Weekly Union Newspaper of the Sea," put out by the Marine Electronics Division of the AFL-CIO. It is broadcast regularly over HF channels. The following excerpt regards FEC transmissions of the Free Press in the southern hemisphere:

> Radio Officers Only: Effective June 16, 1996 ARA Press commences FEC broadcast at 0517GMT via ZLA/Awanul New Zealand Radio. ITU Ch 402 (4211.0 Khz), Ch 602 (6315.0 Khz), Ch 802 (8417.0 Khz), Ch 1202 (12580.0 Khz) and Ch 1602 (16807.5 Khz). ARA Press requests ship position and reception/progagation reports to (212) 809-0600, Fax (212) 809-2198. BT...

And the MEBA Telex Times is the official union newsletter for D1 Marine Officers at sea. The Telex Times is broadcast on WLO Mobile, KFS San Francisco, KEJ Hawaii, WNU New Orleans, VCT Newfoundland, SAB Sweden and ZLA New Zealand, using channels assigned for FEC transmission.

# # #

Craig J. MacKinnon up in Halifax, NS, Canada reports that the Maersk Dubai, a Taiwanese-flagged ship has "been detained in Halifax pending investigation and charges of murder of three Romanian stowaways in the North Atlantic. The captain, first officer and radio officer were all arrested when the famed Royal Canadian Mounted Police boarded the ship recently."

"Crew members alerted the Mounties after the Dubai came into port last weekend. They said the officers threw the stowaways overboard after their discovery. A fourth man was hidden by the crew. He will remain in Canada for now. Bringing stowaways into Canada is costly. The shipping company would have to pay a fee of $7000 per stowaway."

Interesting item, eh? Thanks Craig.

Craig also got to see the USS Theodore Roosevelt while it was in harbor recently, as well as the new USCGC Juniper, lead ship of the Juniper-class buoy tenders.

# # #

Rick Baker reports that the SS Jeremiah O'Brian, one of two remaining

WWII vintage "Liberty" ships, will be at sea again. The ship will visit the Pacific Northwest and British Columbia in late June and early July. The tentative schedule is:

Victoria, BC	arrive June 24 or 25
Seattle, Wash	arrive July 2
Vancouver, BC	arrive July 10

WUN'er Dick Dillman reported on one of his visits to this rare ship:

"The Jeremian O'Brien is a favorite of mine, having been moored just outside my window when my office was at Ft. Mason in San Francisco. Now she's moored at pier 32 along the Embarcadero where more people can see her. She's open to visitors every day.

Recently a friend and ship enthusiast visited town. He wanted to see the ship and it seemed like a good time to renew our acquaintance. If this was a steamship newsgroup I'd tell you of the wonders of the triple expansion engine, etc. But I'll confine myself to the radio room.

This was restored by the members of the San Francisco Radio Club. As a former radio officer, I get a wink and a nod when I take down the chain across the door to step inside, as I did to give my friend a better look. The thing I like best and which I wanted to point out to my friend is the emergency receiver: a hunk of galena and a cat's whisker mounted on the panel next to a tuner. Good for spark and maybe A2. Forget straight CW.

As to that SITOR transmission, I noted a modern Raytheon automatic antenna tuner on the bulkhead. After tracing the wires I found, hidden discreetly by a cloth, a Raytheon HF transceiver tucked over in the corner next to the console."

Thanks Dick, for the report. The callsign is KXCH, and if you are lucky enough to log her, you can try this address for a QSL: SS Jeremiah O'Brien, Building A, Fort Mason Center, San Francisco, Ca, 94123, USA

# # #

Al Quaglieri found this maritime info during the same surfing session: HF VOICE BROADCASTS TERMINATED FROM MOBILE MARINE RADIO/WLO, MOBILE AL.

Mobile Marine Radio has terminated HF single sideband voice broadcasts of the Gulf of Mexico offshore marine weather forecast. This information is still being broadcast by the Coast Guard over NAVTEX and 2670 kHz single sideband. Caribbean area forecasts are also broadcast on HF radiotelephone channels by CG CAMSLANT/NMN.

Until next time, "May the roads rise with you/And the wind be always at your back..."

A big thanks to Marty for pinch-hitting this month -RD

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Editor: Martin C. Barry <martin.barry@medspec.com>
6875 Fielding #02
Montreal (Quebec)
Canada H4V 1P3

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STATION VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

CIVIL SHIPS

Cromarty Tide/GUJB	2182.0	USB	PFC	102 ds		(AI)
Veesea Tornado/VRUD4	2182.0	USB	PFC	104 ds	+ photos	(AI)
M/V Pacific Aries/ELJQ2	4197.0	CW	PFC	198 ds	car transp,	(JSM)

FIXED STATIONS							
NDB La Entallada/NA	291.9	A2A	LTR	23	ds	(hrd on CNR)	(AI)
NDB Cabo Villano/VI	290.5	A2A	LTR	23	ds	(hrd on CNR)	(AI)
NDB Lagos/LGS	364.0	A2A	PFC	32	ds+ltr	(hrd on CNR)	(AI)
NDB Plaisance/FF	258.0	A2A	LTR	246	ds	3fup's (hrd on MAU)	(AI)
NDB Plaisance/MS	343.8	A2A	LTR	246	ds	3fup's (hrd on MAU)	(AI)
NDB Nouvelle France/NVF	374.0	A2A	LTR	246	ds	3fup's (hrd on MAU)	(AI)
NDB Funchal/MAD	318.0	A2A	PFC	34	ds	f/up (hrd on MDR)	(AI)
NDB Porto Santo/PST	338.0	A2A	PFC	34	ds	f/up (hrd on MDR)	(AI)
NDB Montserrat/MON	215.0	A2A	PFC	54	ds	f/up (hrd on GDL)	(AI)
NTRA Solli/LN2A	10407.0	A2A	QSL	437	ds	card no.3!	(AI)
MARS Director Reg. 1/NNN0ASI	14470.0	USB	PFC	16	ds		(AI)
CFARS Greenwood, NS/CIW82	14383.5	USB	PFC	38	ds	+ ham-crd	(AI)
USAF McLellan AFB/AF12	13200.0	USB	PFC	18	ds		(AI)
AF Valkenburg/PBV	5705.0	USB	PFC	14	ds	+ viewcard	(AI)
RAF Neatishead/'neatishead'	3939.0	USB	PFC	14	ds	+ viewcard	(AI)
Police HQ Antigua/ZOA	7850.0	USB	PFC	54	ds		(AI)
TS Moscow/RWM	9996.0	CW	QSL	46	ds		(AI)
MILITARY/COAST GUARD SHIPS							
FGS U-12 (S-191)/DRDF	6779.0	USB	PFC	92	ds	+ letter	(AI)
FGS Werra (A-514)/DRHM	4154.0	USB	PFC	58	ds		(AI)
SS Jeremiah O'Brien/KXCH	8384.5	ARQ	PFC	683	ds	commemorative QSL	(RB)
USS Juneau (LPD-10)/NROP	8297.0	USB	PFC	12	ds		(RB)
USS Shenandoah (AD-44)/NBIO	7535.0	USB	PFC	314	ds	patch, v. ltr	(RB)
MILITARY/GOVERNMENT AIRCRAFT							
RAF Northold a/c / ASCOT 1338	9031.0	USB	PFC	14	ds		(AI)
CIVIL AIRCRAFT							
Nippon Cargo 083/JA8194	8891.0	USB	PFC	18	ds	B747-200F	(JSM)
Transcolombian 430/HK-3816	6637.0	USB	PFC	31	ds	DC8-51F	(JSM)
LTU 769/D-AMUW	6556.0	USB	PFC	30	ds	B757-200	(JSM)
Zimbabwe 725/Z-WKU	8903.0	USB	PFC	28	ds	B707-300B	(JSM)
Brunei 97/V8-RBF	6556.0	USB	PFC	21	ds	B767-300ER	(JSM)
Fine Air 432/N507DC	6637.0	USB	PFC	17	ds	DC8-51F	(JSM)
DSR 405/5X-JET	8903.0	USB	PFC	12	ds	B707C-351	(JSM)
Southern Air 873/N873SJ	6337.0	USB	PFC	16	ds	DC8-73F	(JSM)
Transair/5B-CGP	8879.0	USB	PFC	63	ds	L-1329	(JSM)
Pacific Air Express 3517	8867.0	USB	PFC	--	ds	foto, veri.	(JSM)
MARITIME/NAVAL/COAST GUARD STATIONS							
Ny Brest/FUE	2789.0	RTT	LTR	15	ds		(AI)
Ny Bodo/LBJ	6727.0	USB	PFC	105	ds	+ viewcard	(AI)
Ny La Spezia/ICS	6873.5	USB	PFC	24	ds	+ viewcard	(AI)
Ny Madrid/EBA	14641.0	CW	PFC	12	ds		(AI)
Melbourne R./VIM	8706.0	CW	PFC	23	ds	+ letter	(AI)
Baku R./UON	6400.0	CW	PFC	129	ds	+ ham-crd	(AI)
USCG Pt. Reyes/NMC	17151.2	CW	PFC	24	ds	+ QSL, ltr (f/up)	(AI)
Bermuda Harbor Radio/ZBM	2582.0	USB	PFC	113	ds	ltr w/info	(TG)
Rogers City Radio/WLC	8794.0	USB	PFC	73	ds	QSL, ltr, sked	(TG)

# # #

*** THE LITTLE BLACK BOOK ***

Regular contributor Andreas Ibold of Germany wrote recently and sent, along with a nice stock of QSL's, the following comments:

"After the very small QSL - Report in WUN May 96 I will send you again my 'results.' Hope it helps. But where are the QSL-hunters of our 1054 members?"

No doubt about that, the Report has been shrinking noticeably the past two issues, although this month it seems to have picked up some. Contributions from you and Steve McDonald have gone a long way to pad out what would otherwise have been a fairly barren column. So consider this an

open invitation, then, Andreas: if you'd like to send us a page or two of Hints to Better QSL'ing, by all means please do so, since your submission this month alone of 29 QSL's outdoes most other contributors by a long shot.

Andreas also sent the following addresses:

FUE: Marine Nationale
Zone Maritime Atlantique
Region Maritime Atlantique
Service Transmissions et Informatique
de la Region Atlantique
F- 29240 Brest-Naval

NNN0ASI
ATTN: Rmc Donnly, Director
NAVMARSCORMARS Region 1
P.O. Box 161
NAVSUBASZ
Groton, CT
06349-5161, USA

The report for Ny Bodo/LBJ was sent to the following address, although the QTH on the PFC returned was Bodo:

Navy Base Harstad
Radiobestyren Heggenradio
Distriktkommando Nord-Norge
6 Divisjon
Divisjonsgatan 3
N- 9400 Harstad
NORGE

The ham-callsign of the following is VE1ARC:

CIW82
Greenwood Amateur Radio Club
P.O. Box 63
Greenwood, Nova Scotia
Canada
B0P 1N0

NDB Plymouth
Blackburne Airport
Telecommunications Manager
P.O. Box 344
Plymouth, Montserrat
West Indies

Police Headquarters Antigua and Barbuda
Office of the Commissioner
St. John's, Antigua
West Indies

He also points out the following concerning two of his loggings:

"LN2A: The full detailed pictured QSL-card #3 was sent without any f/up as a second reply for a 1995 report. NTRA is the Norwegian Telecommunications Regulatory Authority. NMC: F/up for a 1993 report. Operation of this circuit ceased April 1, 1994. US Coast Guard now operates simplex teletype over radio (sitor-telex) in place of all Pacific morse (cw) operations."

Tony Grice sent this address for his QSL from Bermuda Harbor Radio:

Government of Bermuda
Department of Marine & Ports Services
Rescue Co-ordination Centre
Bermuda Harbor Radio/ZBM
9 Fort George Hill
St. Georges's, Bermuda
GE02

And for those who will, voice, e-mail and telex numbers are for the same:

Voice: (809) 297-1010
Fax: (809) 297-1530
Telex: 3208 RCC BA
E-mail: rccbda@ibl.bm

While for some this may not be one of the most productive months for QSL's, it may on the other hand be one for unusual catches. Tony takes the cigar for his QSL from WLC (see above), the Great Lakes shipping communications relay. Some of us were just recently discussing how WLC has been a hard station to verify.

Concerning his QSL this month for the SS Jeremiah O'Brien, Rick Baker had the following to say: "After almost 2 years, I received a verification card from the Chief Radio Operator, Bob Gisslow, from the W.W.II Liberty Ship SS Jeremiah O'Brien for a sitor shortwave transmission I logged. The ship was in Cherbourg Harbor, France, at the time. This was during the ship's 1994 '50 year Memorial Cruise' to the beaches of Normandy. She is one of two remaining

'Liberty Ships,' the other being the SS John W. Brown in Baltimore."

# # #

Steve McDonald (VE7SL) received a full data verification for Pacific Air Express's "beautiful old girl" (Steve's words), a Lockheed Electra, including these comments from the airline's managing director, Barry Miller: "This particular aircraft is currently operating between the Solomon Islands and mainland Australia carrying Tuna for the Japanese market. It has been operating this route for approximately 2 months and will continue to be operating in the Australian Pacific region for the next few years."

Steve wasn't so lucky in his attempt in May to QSL German Air Force 880, for which he received from them the following communication: "Based on internal military instructions we are not allowed to verify QSL cards as you have requested by above mentioned letter. Therefore I ask for your understanding and I wish you a lot of success in collecting reception reports." Steve would like to know how others have fared QSL'ing GAF.

He sent the following addresses to match his veris:

Nippon Cargo Airlines
Flight Operations Dept.
P.O. Box 1025
Tokyo Airport Post Office
Narita
Chiba 282
Japan

Aero Transcolombiana De Carga Ltda.
Terminal de Carga Internacional
Aeropuerto El Dorado
Santafe de Bogota
Colombia

LTU Lufttransportunternehmen GmbH & Co. KG
Flughafen Halle 8
4000 Dusseldorf 30
Germany

Air Zimbabwe
Operations Department
P.O. Box AP 1
Harare Airport
Zimbabwe

Royal Brunei Airlines
P.O. Box 737
Bandar Seri Begawan 1907
Brunei
Darussalam

Fine Airlines Inc.
4600 NW 36 St.
Miami, FL
33152
USA

Das Air Cargo
Aviation Court
Gatwick Road
Crawley, West Sussex
RH10 2RJ
United Kingdom

Southern Air Transport
P.O. Box 328988
Columbus, OH
43232-8988
U.S.A

Transair Ltd.
10-12 Kifissias Ave.
151 25 Amaroussion
Athens, Greece

M/V Pacific Aries/ELJQ2
NYK Line
NYK Bldg.
3-2
Marunochi 2-chome
Chiyoda-ku
Tokyo 100
Japan

# # #

// Globe Wireless Soliciting Reception Reports //

The question has often arisen among those in this hobby as to just how much utility stations need (or conversely will tolerate) reports sent to them concerning reception of their stations. There are those who claim the utes have no use whatsoever for reception or QSL reports, saying that stations have enough technical savvy to determine their signals' effectiveness without needing to rely on information from listeners. This

argument continues that QSL hunters are basically reliant on the good-will of ute station operators to fulfill QSL requests, since reports are USELESS to stations, and that reception reports may even interfere with the likelihood of being QSL'd, because they compromise the privacy of communications. The other side of the argument is simply that reception reports are USEFUL, for many of the reasons stated above but reversed. I know that over the years I've heard both sides, and frankly I still find the USELESS argument the more convincing of the two.

On the other hand there is an old saying that goes something like: "The exception makes the rule." In which case the Globe Wireless coast station network certainly might fit the description. Globe recently launched its home page on the World Wide Web (http://www.globewireless.com/), containing an assortment of information about its services, including a section entitled: "QSL'ing Global Radio Network Stations." I quote from the Globe page:

"Reception data from numerous receiving locations, worldwide, is needed to confirm the coverage area of the network, and especially the newer stations. For this reason, the Globe Wireless Engineering Department is requesting assistance from interested listeners. Send in your reception reports and you will receive a handsome QSL card suitable to display in your radio shack. Every listener is eligible to receive one QSL card for each Globe Wireless coast station received and correctly reported. Reports are needed from ships at sea, as well as listeners on shore. 'We find reception reports from listeners extremely useful,'said Rod Deakin, Chief Engineer, Globe Wireless. 'They include valuable technical information and we are happy to send QSL cards in return.' Globe Wireless SITOR transmitters can be easily recognized. They broadcast a unique 'free signal' pattern, followed by the station's call sign, when not otherwise in use. Similarly, available CW transmitters broadcast a repetitive 'wheel' including the call sign and other information. The six traditional maritime HF bands -- 4, 6, 8, 12, 16 and 22 megahertz -- are utilized by Globe Wireless stations. To be of maximum value to the Globe Wireless Engineering staff, reception reports should contain the following information:

Date and Time (UTC) of your reception
Call Sign (QRA) of the Globe Wireless network station heard
Either the actual frequency (QRG), or ITU channel number
Mode of transmission heard (SITOR, CW, etc.)
Signal strength (QSA) and quality
Any interference (QRM) heard on frequency, or on adjacent channels
Did you hear traffic or idle signals? If traffic, whom were we working
Model number of receiver and type of antenna used
Location (QTH) of your receiving station
Any other comments

Include a complete mailing address with all reports so that we may send your QSL card by return post. Ships are requested to include either the address of the vessel's home port or the Radio Officer's personal address. Please send your reception reports for all Global Radio Network stations to:

Globe Wireless
Attn.: Engineering Department
One Meyn Road
Half Moon Bay, CA
94019
USA"

That said, this ought to put to rest at least for a while the argument that utility stations can't use reports. Maybe too it'll set an example for some of the other stations to open up a little more to listeners and QSL's.

# # #

Thanks to this month's contributors:
(AI) Andreas Ibold, Germany
(TG) Tony Grice, USA

(JSM) Jim McDonald, Canada
(RB) Rick Baker, USA

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Hello everyone. I have a nice variety of items for you this month. First of all the first of 2 items written by Angelo Brunero from Italy about the history of radio and telegraphy. Angelo is one of the people behind the interesting Marconi home page. He was so kind to grant WUN permission to publish the articles in the newsletter. Grazie Angelo !

o EAMs revisited.
Jeff Haverlah (jehaverlah@aol.com) was the inspiring force behind the EAM articles in our July and August newsletters last year and he is still very active. Here a short update compiled from his latest postings.

EAM strings are boring for a lot of people, but every now and then there are internal characteristics that sometimes call attention to themselves. There are no zeros, ones, eights, or nines in the EAM strings at least since 1994 (the strings in the early to mid eighties and probably earlier definitely contained zeros, ones, eights, and nines 'cause each string contained distinctive plaintext datetime groups starting at the 8th character after stripping out the 5-character preamble.) Or rather that used to be the case....

11244.0 1549z 23 May 96 with OFFUTT as lead GHFS station, with a 108-character EAM as follows: PC6BJV ZTNFNWH27IE2VS75MIEJKAD3JT3IQ5U7WP SZRAHEAL1AEAM1AEAN1ATXKMGYTPPUP4AO665CXMNY426UX7PKOYPLPJWCKCBVCE7NT5

Rearanging the string (minus the preamble):
ZTNFNWH27IE2VS75MIEJKAD3JT3IQ5U7WPSZRAH
EAL1AEAM1AEAN1ATXKMGYTPPUP4AO665CXMNY426UX7PKOYPLPJWCKCBVCE7NT5

Looking at that middle line...
EAL1 A EAM1 A EAN1 ATXKMGYTPPUP4AO665CXMNY426UX7PKOYPLPJWCKCBVCE7NT5
^^ ^^ ^^
There was no mistaking the distinctly pronounced "one"s. In fact the operator read the string so that those miniblocks were slightly emphasised, at least to my ear. He pronounced them as "one" in both read-throughs.
Every now and then, the variable character-count strings will contain groupings of three or more characters that will 'repeat' within the body of the string. That kind of parsing above is very unusual, and even more so with a distinctive "one."
Note the the repeating pattern across multiple EAMs, and the "L" through "N" sequencing within the patterns.

Usually there is apparently zip to be noticed in these things other than the rare repeating text-blocks within a long string. But then, suddenly there are "ones" in the (PC...) EAM strings, and they coincide with repeating, sequencing patterns within *multiple* strings, all of which is way, way beyond "rare" at least in the past few years.

o Eddy Waters from Collinswood, Australia, heard a CIA 'counting' broadcast on a new frequency:
''I am hearing what I believe is a new channel for the 3/2 numbers groups. The frequency is 8014 khz. It begins at 1100 UTC with usual 10 count and starts its numbers counts at 1110 utc. Has anyone heard this channel before ?''
It is the first time that I have seen a logging for them on this frequency, Eddy.

o Shortwave from space.
''Why don't you guys never list RS transmissions ?''

It is one of the questions that I sometimes receive. Well it's simple, the RS satellites are Radio Amateur satellites and are therefore off-topic here. But because it is fun to tune in to ''Radio Sputnik'' and the Soyuz space vehicles are here the SW freqs.
RS10: 29357 (CW), 29360-29403 (CW / USB), 29403 kHz (CW)
RS11: 29407 (CW), 29410-29450 (CW / USB), 29453 kHz (CW)
RS12: 29408 (CW), 29410-29450 (CW / USB), 29408 kHz (CW)
RS13: 28458, 29460-29500, 29504 kHz (CW)
Soyuz space craft: 20008 kHz (telemetry)

o Alphabets.
Another question is about the Russian CW and SSB stations. How is the Russian alphabet pronounced and transmitted in CW ? I cannot show you the Cyrillic letters in this ASCII file so I'll try to make it as clear as I can. The first column shows the letter, the second the Morse code, and the third represents the sound.

a	.-	[a]		be	-...	[b]
ve	.--	[v]		ge	--.	[g]
de	-..	[d]		ye	.	[je] or [e]
yo	.	[jo]		zhe	...-	[zh] like "uSually"
ze	--..	[z]		i	..	[i] like "kid"
j	.---	[j]	like "toY"	ka	-.-	[k]
el	.-..	[l]		em	--	[m]
en	-.	[n]		o	---	[o]
pe	.--.	[p]		er	.-.	[r]
es	...	[s]		te	-	[t]
u	..-	[u]		ef	..-.	[f]
kha	....	[kh]		tse	-.-.	[ts]
che	---.	[ch]		sha	----	[sh]
shcha	--.-	[shch]		i	-.--	[i] like "this"
ae	..-..	[ae]		yu	..--	[ju]
ya	.-.-	[ja]				

Lots of Russian CW stations use a 'T' as a short figure for '0' (zero). Other short figures may also be used, although less frequent.
David Lane (dave@thelanes.demon.co.uk) recently posted the following list of 'shorts' taken from the official UK Marine ROs Handbook:

1 .-	(a)	2 ..-	(u)	3 ...-	(v)	4 ....-	(4)
5	(5)	6 -....	(6)	7 -...	(b)	8 -..	(d)
9 -.	(n)	0 -	(t)				

5 is sometimes also shortened as '.' (e) instead of '.....' (5).

A handy help to identify 'letter' stations may be the comprehensive alphabet list maintained by Brian Kelk (bck1@cl.cam.ac.uk).
The list is frequently updated and includes alphabets for the following languages: English, French, German, Dutch, Flemish, Spanish, Portuguese, Italian, Rumantsch, Danish, Norwegian, Swedish, Finnish, Czech, Slovak, Polish, Hungarian, Croatian, Serbo-Croat, Romanian, Turkish, Hebrew, Russian, Swahili, Chinese and Esperanto.

The list is called 'Phonetic Alphabets' and you may find a copy of this list on the World Wide Web at:
<http://www.cl.cam.ac.uk/users/bck1/menu.html>
<http://www.columbia.edu/~fuat/cuarc/phonetic.html>
<ftp://rtfm.mit.edu/pub/usenet/news.answers/radio/phonetic-alph/full>
<ftp://ftp.cs.ruu.nl/pub/NEWS.ANSWERS/radio/phonetic-alph/full>

THE HISTORY OF TELEGRAPHY

Authors: Angelo Brunero (IK1QLD) & Andrea Borgnino (IW1CXZ)
Translation: Andrea Valori (IK1QFT)
Marconi home page: http://www.alpcom.it/hamradio

Telegraphy (in Greek: writing in distance) is, as we know, a communication system able to transmit signals which represent coded letters, numbers and signs of writing. Telegraphy has very ancient origins, and can be divided

in acoustic, optical and electrical.

The Greek historian DIODORUS CRONUS (IV cent. B.C.) tells how Persian king DARIUS I (522-486 B.C., son of ISTAPSES, who brought the Empire to its maximum extension from Indus to Danube rivers, and who was later defeated by the Greeks in Marathon) could send the news from the capital to the provinces of the Empire, by means of a line of shouting men positioned on heights. This kind of transmission was 30 times faster than normal couriers. In the "DE BELLO GALLICO" JULIUS CAESAR (100-44 B.C.) writes that Gauls, using human voice, could call to war all their warriors in just three days. Optical telegraphy used fire at night, and smoke or mirrors during the day. In homeric poems is often told of this way of communication. The tragic poet ESCHILUS (525-456 B.C.) describes this in details in his poem "AGAMEMNON". The BIBLE tells us how MOSES drove the Jews in their escape from Egypt by means of columns of fire and smoke. Unique and original is HYDRAULIC TELEGRAPH described by ENEAS THE TACTIC (IV cent. B.C.), device that, according to historians, was invented by the Cartaginese. It consisted of two cylindrical vases (a transmitter and a receiver) perfectly identicals and placed in two distant hills. Filled with water, they had a floating vertical pole at the center with conventional signs in it. To communicate they just needed to rise or lower the pole emptying or pumping water in the vases to the desired point. Start and ending of transmission was pointed by flags or torches. Over this oddities emerged the OPTICAL TELEGRAPH by CLAUDE CHAPPE (1763-1805) and his brother IGNACE. On may 22,1792 CHAPPE showed his invention to the French Legislative Assembly which adopted it officially. The first telegram sent with this telegraph announced the victory of CondŠ over Austrians on November 30, 1794. At the time many European states installed on their territories the CHAPPE telegraph. Signals were based on the different positions taken by three wooden interlinked arms, the central one (regulator) being longer than the other two (indicators or wings), and rotating at the top of a vertical fixed pole. The two lateral arms could rotate freely around a center, with displacements of 45ø. The different positions of the arms could transmit nearly 8.500 words of a general vocabulary of 92 pages, each containing 92 words. Only two signals were required for a single word: the page of the vocabulary and the number of the word!

A revolution in telegraphy was consequent to the discovery of electric current, to the invention of the battery by ALESSANDRO VOLTA, and to the studies of ANDRE' MARIE AMPERE (1775-1836). The first telegraphs had two electrical lines, with a galvanometer detecting signals at destination. Subsequently the system was reduced to just one line, since the circuit was closed by the ground. American inventor, and painter of some renown, SAMUEL FINLEY BREESE MORSE (1791-1872) was the realizer of electric telegraph, since others were working at the same idea: MORSE'S TELEGRAPH is the oldest of all the electric telegraphs. Morse toured Italy in 1830 and painted many pictures while there; he was forced to leave Rome in 1831 due the revolution in the Papal States. In 1832 he returned to America on board the "Sully" when the concept of a "telegraph" based on electromagnetism came to him. In his studio at New York University (in New York City) he worked on his telegraph regularly for six years. He received a patent for his telegraph invention in 1838, also in the same year he completed his last two paintings.
SAMUEL MORSE was a painter of some renown. He made his experiences on electricity in his painting atelier, and his first telegraph receiving instrument was constructed on a "canvas stretcher" frame. A wooden clock motor provided the power to move a paper tape under a pen. The pen was moved by an electro-magnet, driven from the telegraph line. The canvas stretcher was used only as a frame to support these devices. This canvas stretcher telegraph receiver is on display in the Smithsonian Institution, National Museum of American History in Washington, DC. Another of the oldest in the world can be seen in the historical postal and telegraphic museum of Roma-Prati opened in December 20, 1959. It comes from the old Pontificial State and was used to connect Rome and Terracina, starting his service in September 1853). On May 24, 1844 Morse sent the famous words from the Bible, Number 23:23, WHAT HATH GOD WROUGHT! on his telegraph from the US Capitol Building in Washington, DC to the B7O Railroad

Depot in Baltimore, MD (now the location of the B&O Railroad Museum). Morse related memorabilia are located at both locations today.

The WHEATSTONE needle telegraph comes as an application of the AMPERE telegraph of 1820.In it the current delivered by a VOLTA battery reached the tip of a magnetic needle causing it to oscillate. In the very first models the number of the metal wires and of the needles corresponded to the alphabetic letters: one can understand why its use was fairly complex. A big improvement was made by STEINEL and WHEATSTONE, who used batteries with D.C. and electomagnetical devices; the English physicist CHARLES WHEATSTONE (1802-1875), the inventor of the instrument to measure the electrical resis- tance, was in effect the first applier of the electro-magnet.

Two centuries earlier nonetheless someone must have thought to use magnetic needles to communicate, otherwise the matematician and physicist GALILEO GALILEI (1564-1642) wouldn't have written in his "DIALOGS", and namely in the one between Sagreto and Simplicio, the story of the man who wanted to sell to Sagreto the secret of the system "to talk to somebody two or three miles away by means of that certain attraction of magnetic needles". But when Sagreto wanted a demonstration in his house, the man told him that it was not possible, due to the narrow environment.

In Italy institution of telegraphy starts in 1847, with BREGUET equipments, in the Grand Duchy of Tuscany. In the Reign of Two Sicilies the start of a telegraphic CHAPPE system goes back to 1802: it is described by the historian Pietro Colletta in his "History of the Realm of Naples from 1734 to 1825", published posthumous in 1835. EDUARD HUGHES realized in the U.S. in 1855 a device able to print letters of a dispatch making the paper to advance towards a wheel of types, so that every type could face properly the paper (the system was similar to the one of the old drum typewriters). The current necessary to the printing mechanism was sent by a dial transmitter; a keyboard needed to be sinchronous with a crank, which pushed the types to the printer. The multiple printing machine of HENRY AUGUSTUS ROWLAND (1848-1901, improved the diffraction reticles and built an extremely precise spectroscope) was activated between Rome and Naples in 1904. It used persisting A.C. with the frequency of 60 periods per second. The signal was obtained with the conversion of two non consecutive hemiwaves out of a sector of eleven. Since each station (the sender and the receiver) had four sectors, it was possible to send eight simultaneous dispatches. The french engineer JEAN-EMILE BAUDOT (1845-1903), employed in the French Telegraph Administration intended to obtain many kinds of telegraphic transmissions. He had to overcome many difficulties, especially to avoid timing errors between phases of trans-mission and reception: his studies lasted many years, and only in 1875 he could obtain satisfactory results with a receiver, in which time units needed to print any letter of the alpha- bet were reduced to five, with the use of all possible combinations (in HUGHES' device time units were 28!). In BAUDOT's alphabet (not code) signals which compose letters differ not only in length but also in their respective position. Emitted signals can control five magnets in any receiver: every signal which occupies only one unit controls only one magnet; if it occupies two units, it controls two successive magnets, etc. until five units. Transmission is made with five keys similars to those of a piano, which are lowered according to a metronome. BAUDOT'S system adopted in Italy permitted two or four trans-missions, depending on the importance of the line.

The CASELLI PANTELEGRAPH resolved wonderfully, in the field of electro-chemical telegraphs, a problem faced by the English BAIN and BACKWELL at the end of the first half of last century. In 1846 BAIN could reproduce electro-chemically conventional graphic signsusing paper soaked in potas-sium ferrocyanide. BAIN's idea was taken again and even surpassed by BACKWELL, who could send writings instead of conventional signs. None-theless both BAIN and BACKWELL were unsuitable: reception obtained with BACKWELL's method was poor, lacking of synchronism between transmitter and receiver. CASELLI overtook both of them with his PANTELEGRAPH or UNIVERSAL TELEGRAPH.

CASELLI's history is very interesting. GIOVANNI CASELLI was born in Siena in 1815; he studied literature and science. From 1841 to 1849 he lived in Modena as tutor of the sons of Marquis of San Vitale, but as he took part in the riots for annexation of Duchy of Modena to Piedmont, he was expelled from the Duchy. He spent all his money saved during his modenese period in experiments who eventually led to his PANTELEGRAPH. Such experiments started in 1855, and ended in Paris, where CASELLI met one of his most enthusiastic admirers: Napoleon the 3rd. With the help of the Emperor he could have at his disposal, for his tests and trials, the whole french network. His first invention was registered in 1861. In 1865 the PANTELEGRAPH started his duty between Paris and Lyon, duty which ended in 1870 following the defeat of Sedan, having been planned new lines. At the time in which the Paris-Lyon PANTELEGRAPH worked regularly, Napoleon, having in vain proposed to CASELLI the french citizenship to allow him acceed to the rank of general inspector and co-ordinator of the the French telegraph, awarded him the Legion of Honor. The PANTELEGRAPH worked also between London and Liverpool in order to build up a public service. But the program was withheld because of the economical crisis which in 1864 stroke badly England and the Financial Society, with which CASELLI had undertaken the final agreements. Even Russia was interested in his PANTELEGRAPH, but instead of creating a public service, it was used to send messages between the two imperial residences of St. Petersburg and Moscow. Some of CASELLI's inventions were: an electrical marine torpedo which came back to the launching point in the event of missing the mark, an hydraulic press and an instrument that measures the speed of the locomotives. CASELLI died in Florence in 1891.

That brings us to the end of this Utility Round-up. I hope you liked it. Please, send me your findings, news or other hobby related stuff. All your contributions are highly appreciated. A big 'thank you' goes to this month's contributors. CU all next month. -Ary-

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W O R L D B A N D S C A N

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Hi and welcome to another fun-filled edition of WORLD BANDSCAN. This month we'll take a look at the 7700-7799 Khz range. I'd like to thank Guy Denham, Day Watson and Roger Caird for their contributions this month and want to encourage everyone to please contribute something. I would bet that EVERY one of you has at least one logging in this range that no one else has ever heard!!! Such is the nature of utilities... So send 'em in next month for the 7800-7899 range before it's too late!

A reminder for the newer WUN members that the previous editions of WORLD BANDSCAN are available at our web site. If you don't have access to the web, then send me a note and I can transfer the files to you. So far we have covered 7500-7799 Khz. See you in two months!

FREQUENCY	MODE	CALL	STATION/AGENCY	INFORMATION	LAST HEARD
7700.0	SSB		US FED.GOVT	Dept.of Energy-Ch.5	
	SSB		US AIR FORCE	Pilot-to-Pilot comms	Aug93
	SSB/RTTY	OA	IRELAND MILITARY	Dublin	Feb96
	ISB	VHC	AUSTRALIAN NAVY	Belconnen Naval	
	RTTY	ETD3	ADDIS ABABA AERO	Ethiopia - 50bd	Sep94
7700.7	SSB	NMN	US COAST GUARD	CAMSLANT Chesapeake	Sep95
7701.5	RTTY	PCW1	MFA NETHERLANDS	The Hague; twinplex	Apr96
7701.7	RTTY		MFA CAIRO	Egypt - ARQ	Mar96
7702.0	FAX	RTP72	IRKUTSK,RUSSIA	Meteo - 90/576	
7703.0	SSB		UNID	ALABASTER sending EAM	Nov95
	CW		UNID	Offline encryption/5-fig	Sep94
7704.0	ISB	MKD	AKROTIRI,CYPRUS	VFT:DCN	May96
7705.0	CW	UTN	KHABAROVSK,RUSSIA		

7705.7	RTTY	RFTJ	DAKAR,SENEGAL	French Forces - ARQ-E3	May96
7706.0	RTTY		UNID	NATO encrypted - 75/850	Apr96
7706.5	SSB		NASA	West.center (ABNORMAL)	Nov95
	RTTY		UNID	SYN CONT. NO APP ACF 100/850	May96
7707.0	RTTY	AIE	US AIR FORCE	Anderson AFB, Guam-ITA2 75bd	
7707.8	SSB		UNID	Ethiopian?	Mar96
7710.0	SSB		AVIATION-VENEZUELA	Maracaibo/Barquisimeto	
	FAX		CAN.COAST GUARD	Resolute/Iqaluit - 120/576	Apr96
	ISB	MKK	LONDON,ENGLAND	VFT:DCN	May96
7711.0	CW		UNID	Offline encryption/5-fig	Sep94
7713.0	SSB		US COAST GUARD		
	SSB		US AIR FORCE	Air Mobility Command	
7714.0	RTTY	TJK	DOUALA,CAMEROON	AFTN/ASECNA - ARQ-M2	Aug94
7715.0	SSB		IRELAND NAVY		
	SSB		NASA		
	SSB		US AIR FORCE	Ascension AFB discrete	
	RTTY	RCU71	NOVOSIBIRSK,RUSSIA	Meteo - 1000/50	
	TONES		UNID	TT2300b 8 tones 200hz apart	May96
7715.8	TONES		UNID	TT2300b 100b - see 7722	May96
7716.0	SSB		US COAST GUARD LORAN	N.Atlantic/Norwegian Sea	
7716.6	CLOVER		CROATIAN ARMY	Zagreb	
7718.0	TONES		UNID	TT2300b 8 tones 200hz apart	May96
7719.9	RTTY		UNID	ARQ-E, 72bd idle	May96
7720.0	SSB		US ARMY	MARS	
	SSB		LOUD JAMMER	Europe	May96
7722.0	CW	KKN39	US FED.GOVT	Dept.of State-Miami,FL	
	TONES		UNID	same as 7715.8	May96
7722.5	CW	5ST	ANTANANARIVO	ASECNA	
	CW	5SV	MORONDAVA	ASECNA	
7722.6	RTTY		EGYPTIAN EMBASSY	London,England - ARQ	
7722.7	RTTY		MFA CAIRO,EGYPT		May96
7723.5	SSB		US FED GOVT	Dept.of Energy-Nuclear Mat.	
	SSB		SMITHFIELD,AUSTRALIA	Defense Allocation	
7723.9	SSB		AUSTRALIA	Commercial operations	
7724.0	CW	KRH50	US EMBASSY	London,England	
7725.0	SSB		UNID	Men singing in Chinese	Apr96
	AM		NUMBERS	SS YL w/4-lgs	Oct95
7726.5	SSB		US FED.GOVT	Fed.Highway Admin-F26	
	SSB		US ARMY	Defense Mapping Agency	
7726.7	RTTY		MFA CAIRO,EGYPT	ARQ	
7727.0	RTTY	FKS	PARIS,FRANCE	FAF-425/50	
7727.5	RTTY	FDY78	ORLEANS,FRANCE	FAF-425/50	
7728.7	RTTY		MFA CAIRO,EGYPT	ARQ	
7729.0	SSB		US AIR FORCE	SITFA	
7730.0	SSB		UNID	Brazilian tfc in PP	Mar95
7731.0	SSB		EYRING RESEARCH	Experimental station	
7731.7	RTTY		EGYPTIAN EMBASSY	Washington,DC	Jan95
7732.2	RTTY		UNID	ARQ idling for 5 minutes	May96
7732.5	RTTY		UNID	75b/164 Async.	Apr96
7733.0	ISB	PBB	KOOTWIJK,NETHERLNDS	VFT:Dutch Military	May96
	CW		UNID	5-fig grps	May96
7734.0	RTTY	DOR	MFA SOFIA,BULGARIA	ITA2-75bd	May96
7734.9	SSB		UNID	SS comms	Apr96
7735.0	SSB		MYSTIC STAR		Mar91
7736.0	SSB		US FED.GOVT	Fed.Highway Admin-F27	
	RTTY		PICCOLO	20bd	Jun96
7736.5	SSB		AVIATION-AUSTRALIA	Alligator Airways Pty,Ltd.	
	SSB		AUSTRALIA	Commercial operations	
7738.0	CW		UNID	Hand-sent morse	May96
7738.3	RTTY		UNID	ARQ-heard weakly in Ireland	May96
7740.0	SSB		UNID	Scrambled traffic	Jan91
	SSB	MRA01	UNITED KINGDOM	ATC Net	
	SSB		AVIATION-SO.PACIFIC	Australia/N.Zealand/Cook Is.	
7741.0	SSB		US COAST GUARD	Caribbean operations	Aug94
7742.0	SSB		NASA		
	CW	KRH50	US EMBASSY	London,England	
7743.0	SSB		US FED.GOVT	Fed.Highway Admin-F28	
7744.0	SSB		SCOTLAND	Fishermen	May96

	SSB		UNID	FF voice clg unid w/data	May96
7744.2	LINK-11		UNID		Mar96
7745.4	SSB		MEXICO	Fishermen	Feb96
7746.0	AM		NUMBERS	5-number groups	Apr96
7747.5	SSB		UNPROFOR	Bosnia-ship tracking	May96
	RTTY		EGYPTIAN EMBASSY	Rome - ARQ	May96
	ISB	GYU	GIBRALTAR	VFT:DCN	
7750.0	SSB		ANTARCTICA	Belgium	
	FAX	RAW78	MOSCOW,RUSSIA	Meteo	Mar96
	RTTY	GYA	LONDON,ENGLAND	Whitehall Naval-850/75(F5)	
7751.0	SSB		UNID	AA phone to Maghreb	Mar96
7753.0	CW	Q6AP	UNID	clg DC4V	May96
	RTTY		UNID	RYRYR VMGTCNJ5-SYN BLOCKED	May96
7754.0	TONES		UNID	TT2300 8 tones 200hz apart	May96
7754.5	SSB		US COAST GUARD		
7755.0	SSB		UNID	Scrambled comms	
7755.2	RTTY	RFQP	DJIBOUTI	French forces - ARQ-M2	May96
7756.0	RTTY	SUA34	CAIRO,EGYPT	400/75	
	ACARS		CANADA	Testing	
7758.5	SSB		AUSTRALIA	Commercial operations	
7760.0	SSB	ULX	ISRAELI MOSSAD		Nov95
	RTTY	RGH77	ARKHANGELSK,RUSSIA	1000/50	May96
7760.2	SSB		UNID	KWL48 wkg KOJ638 Tern Is. & KAW63 Lake Sand in comms re turtle eggs & sending data on molted seals.	
7761.0	ISB	MUHT	UNID PICCOLO	DCN	
7761.2	RTTY		CN MAGALLANES	CCM-w/5 lgs - 100/850	Sep94
7761.8	RTTY	EAE220	MFA MADRID,SPAIN	ARQ	
7762.0	SSB		AVIATION	Papua New Guinea	
	FAX	RGH77	ARKHANGELSK,RUSSIA	60/576	May96
7762.2	SSB		UNID	Man chatting in RR	Jun96
7763.5	RTTY	382	PLAISANCE,MAURITIUS	AFTN - ARQ-E3	May96
	RTTY	D6Z	MORONI,COMOROS	ASECNA - ARQ-E3	May96
7765.0	SSB		SCOTLAND	Fishermen	May96
	SSB		NASA	SRB Recovery	Jun96
	SSB		MYSTIC STAR		
	SSB		AVIATION	Australia	
	SSB		AUSTRALIA	Commercial operations	
	RTTY		POLISH EMBASSY	Moscow - POL-ARQ-200	
7766.0	RTTY	SNN299	MFA WARSAW,POLAND	POL-ARQ-100	Feb96
7766.5	SSB		AUSTRALIA	Civil Aviation Admin-Cairns	
7767.0	SSB		UNID	HOLEMASTER	
7767.5	SSB		US FED.GOVT	Dept.of Energy-Nuclear Mat.	
7770.0	SSB		US FED.GOVT	Fed.Aviation Admin-Samoa	
	SSB		US FED.GOVT	Dept.of Energy	
	SSB		PTT FIJI ISLANDS	Suva/Rotuma Island	
	ISB	GYU	GIBRALTAR	VFT:DCN	May96
	RTTY		UNID - C.I.S.	81-81...41/500	May96
7771.0	SSB		ANTARCTICA	Japan - Syowa	
	SSB		AVIATION	Cuba	
7771.5	SSB		AUSTRALIA	State Energy Commission	
	SSB		AUSTRALIA	Commercial operations	
7773.0	ISB	PBB	KOOTWIJK,NETHERLNDS	VFT:Dutch Military	
	RTTY	ATU58	NEW DELHI,INDIA	600/50	
	TONES		VOCODER	12 tones 200hz spacing	May96
7773.5	SSB		US COAST GUARD	Ch.3A8	Jan89
7773.6	SSB		UNID	LISA2 wkg MARYLOU w/alphas	Aug89
7774.0	CW	RGT77	UNID	C.I.S.station	
7775.0	SSB		UNID	talk of splitting up shipment and needing money to work on radio equipment.	
	SSB		ANTARCTICA	United Kingdom (Fossil Bluff/ Halley Bay/Bird Island/Signy/ Faraday/Rothera)	
	SSB		HONDURAS	Christian missions	
	SSB		US AIR FORCE	Albrook AFB discrete	
	RTTY	8WD10	MFA NEW DELHI,INDIA	425/50	

7776.5	RTTY/CW	OST33	OOSTENDE RADIO	Belgium	May96
7777.0	SSB		SCOTLAND	Fishermen	May96
	SSB		UNID	Two Oriental gents talking	May96
	SSB		MOROCCO ARMY		
	ISB	MKK	LONDON,ENGLAND	VFT:DCN	
	CW	5ST	ANTANANARIVO	AFTN:Africa	
	CW	5YD	NAIROBI	AFTN:Africa	
	CW	DJR	DJIBOUTI	AFTN:Africa	
7777.5	CW	SXA24	GREEK NAVY	Sparta Attikis Naval	
7778.5	SSB		US FED.GOVT	Dept.of Defense-Ch.XD (JTF)	
	SSB		US FED.GOVT	Dept.of Justice - FBI	
7779.3	CW		UNID	Hand-sent morse-weak	Apr96
7779.7	RTTY	RFFVAE	DHAHRAN,S.ARABIA	French forces - ARQ-M2	Mar95
7780.0	SSB		CANADA	Roy.Canadian Mounted Police	
	ISB	MKK	LONDON,ENGLAND	PICCOLO: DCN	
7780.3	SSB		UNID	SS comms	Jun96
7782.0	SSB		BRAZIL AIR FORCE		
7783.0	SSB		US COAST GUARD	Ch.3E11	Apr91
7783.7	RTTY	RFTJF	PORT BOUET,CTI	French forces - ARQ-E3	
7784.0	SSB		UNID	BW wkg U w/radar tracking	
	RTTY	NRR	ROOSEVELT ROADS,PR	Relaying KAWN weather-75bd	Jun96
7785.0	SSB		UNID	SEAHORSE/SANTA FE/INVADER/ NIGHTSTALKER w/rx checks	
7786.0	SSB		TELCOM	Norfolk Is.-Sydney	
	RTTY		POLISH EMBASSY	London,England - POL:ARQ	Mar96
	RTTY		UNID	Blocked.ACF 7&35 - 100/250	May96
7787.2	CW	FDI22	UNID	18 WPM	May96
7788.0	SSB		UNID	R wkg PC/7R re start of event 17280 - ment.Alligator/CDCO	May93
	RTTY		UNID	ITA2//50/N/850 w/ry's figs	May96
7788.3	SSB		UNID	W1E standing by for RTTY	Jan89
7789.7	SSB		MEXICO	Tourist aid net	
	RTTY		EGYPTIAN EMBASSY	Rome - ARQ	
7790.0	SSB		MEXICO	Police	Nov95
	SSB		US FED.GOVT	SHARES Net	
	SSB	CLN83	HAVANA,CUBA	Telcom	
	RTTY/SSB		US FED.GOVT	Fed.Communications Comm.425/45	
7792.0	SSB		US COAST GUARD		Sep92
	SSB		AUSTRALIA	School of the Air-Charleville	
7793.5	SSB		UNID	CTF wkg CTE & EOD Support craft	
7795.0	SSB		MEXICO	Business net - unid bank	Feb96
	ISB	GXH	THURSO,SCOTLAND	6028:USN	
	ISB	MUH	NANYUKI,KENYA	PICCOLO:DCN	
7797.0	SSB		UNID	Man shouting'rx chk, rx chk'	Aug94
	RTTY	FKS	PARIS,FRANCE	FAF 400/50	
7798.5	SSB		AUSTRALIA	Woodside Petroleum	
7799.0	SSB		US AIR FORCE	MARS	
	SSB		US FED.GOVT	Fed.Emergency Mgmnt Agency	

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The WUN Logs Column

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Thanks to out to Andy Brill in New Zealand, who is taking over for Carl Quick on Team Logs. If it were not for this crew doing all the hard work formatting members logs into the WUN format, we would not have the logs here to share with you all.

We have 58 contributors this month; a very low number. I hope that is because for some of us summer arrived. But at least a nice variety! As always, we appreciate those who take the time to share their logs. I hope a few more members take some time to send some logs in, even if they are very common, or to you, boring. It may not be boring to others who may never have

seen that station logged. If you like civil aero, military, maritime, beacons, etc, don't get bummed out cause you don't see a lot in your area of interest. If you share your logs, others with the same interest will come forward. On with the show....

=CIVIL AERO=

2872 Speedbird 198 0116 USB selcal HP-BM wkg Gander/Selcal check (TO)

2899 Gander Radio, NF, CAN (NAT-B MWARA) 0613 USB wkg American 136 w/selcal ck, FK-BE (DC-9 N428AA) & passes conditions for area 55N/40W at FL310 (moderate turbulence reported). (RB)

5505 EIP: Shannon Volmet 0550 USB w/wx to the area (AW)

5530 VLB14B2: 1955 AM (CK)

5532 PH-BUT 0256 USB wkg KLM LDOC/pp to KLM Maintenance Ops (TO)

5535 BAW4 1935 USB Speedbird London/ETA EGLL 2112 req one brass pad-lock for duty free !! Concorde. (RD3)

5541 SVA5046 2050 USB Stockholm/arr.Ankara1838/50,dep.1955/2020 ETA OEJN 2305 Fuel 96.5 sel/AHDJ N602FF B747 TOW. (RD) SWW3344 2113 USB Stockholm/New ETA LTBJ 2330.To relay to SWW ops. 9MMAS 2134 USB Stockholm/dep.VRMM2114/24 Fuel 18.2 sel/EGAD DC10. WOA277 2230 USB Stockholm/Inb/d to Surabaya,fuel 47.2 N277WA MD11. ANA206 2233 USB Stockholm/Called several times posn 64N58E. 9MMAV 2240 USB Stockholm/psn ATIDA 2222 F330 Fuel 29.8.DC10 WOA. RIA7205 2242 USB Stockholm/dep.EKKA 2200/17 ETA KPIT 0553 Fuel 159. 5 Nil pax,uplift 16872 USgal sel/JQBE N765BE L1011. (RD3)

5547 San Francisco aero 1300+ USB wkg various a/c, at 1331 there was a selcal check (ALEK) with Northwest 280. (MS4)

5550 New York radio 0926 USB Volmet wx to the area (AW) New York Aero (CAR) 2215 USB Began to come up. (HW) New York (CAR-A MWARA) 0552 USB wkg REACH 1814 w/posrep, adv 2887 secondary, confirms neg selcal.(RB) KEYS 81 0037 USB wkg NY/ARP 40N60W F280 .77 (TO)

5557 Nikolaevsk RUS, 1044 USB wkg unid Russian flight in RR (AW)

5574 QANTAS 7554: 1350 USB w/SF (Evergreen 470) req clearance back to LAX; see 6640 log (JSM)

5598 Shanwick, IRE (NAT-A MWARA) 0553 USB wkg Delta 22 w/0551 posrep at FL350; at 0554 wkg Air Europe 725 at 40N/20W 0550 FL350, 48N/08W next, selcal CS-HQ & req FL370. (767-300ER EI-CJB). New York (NAT-A MWARA) 0612 USB wkg Avianca 010 w/posrep, 41N/40W 0610 at FL 330, est OSCAR 0707, gives wx & fuel. (RB) Iberia 6170 0019 USB selcal HL-BD wkg NY/Selcal check QSY from 6586. Tourjet 038 0035 USB selcal FP-ER wkg NY/Selcal check. Speedbird 254 0041 USB selcal BD-CK wkg NY/ARP 18N56W F310. Air Portugal 9961 0053 USB selcal GM-DE wkg Gander/ Selcal check. Martinair 638 0252 USB selcal BQ-EG wkg Gander/ARP 48N40W F350. Delta 44 0253 USB selcal BL-HM wkg Gander/Selcal check. HUSKY 306 0303 USB wkg Gander/reporting escorting HUSKY 345 at 3,000 feet at 4517N4946W 0303 ETA St. John's airport 0345. Can anyone confirm this 100%? TWA 810 0311 USB selcal DJ-CK wkg Gander/Selcal check. Speedbird 224 0324 USB selcal AM-DF wkg Shanwick/ARP 49N30W F330. Saudia 002 0110 USB wkg Shanwick/ARP 47N30W F370. Iberia 6250 0156 USB selcal DJ-AR wkg SM/ARP 44N40W F370: this is the newly delivered A340 EC-155, the second to enter into service for Iberia. Speedbird 224 0201 USB selcal DF-HK wkg Gander/Selcal check. American 104 0219 USB selcal BE-LM wkg Gander/Selcal check. American 174 0235 USB selcal JM-HK wkg SM/Selcal check (TO)

5610 Unid: (Port Richard ?) 0126 USB comms with various acft. (KW2) (see next log -LOGS) Portishead Radio, UK (EU-CC-LDOC) 0329 USB wkg unid flt 988 w/selcal, then pp w/co op's re wx at flt's location. (RB)

5616 N1812C 2042 USB w/Shanwick (Da.900), selcal KR-DP, at 2150 now w/Gander): 51n 30w 2149 fl350, 52n 40w 2239, 50n 50w. Gander req. eta Gander + handling agent: eta 0017 blocks 0030, couldn't read handler. Reach 424 Heavy 2050 USB w/Shanwick, 50n 30w 2048 fl330, 49n 20w 2139, 48n 08w. 2899 2nd. IFB 14 2152 USB w/Shanwick (C-130, Canadian Armed Forces, IFOR) 52n 30w 2149 fl190, 52n 20w 2308, 52n 15w. Reach 4801 2157 USB w/Gander (civil a/c), 48n 40w 2155 fl370, 47n 50w 2253, color, fuel remaining 60.7, req. fl390, ->122.375, a/c has selcal. (BH) Fedex 5 0142 USB selcal AB-ES wkg Gander/ARP 57N30W F280 .83 req F310. Giant 140 0215 USB selcal FJ-BG wkg Gander/ARP 57N30W F310. Continental 20 0354 USB selcal CG-DF wkg Gander/Selcal check. North-west 68 0119 USB selcal EG-KP wkg Gander/Selcal check. REACH 901 0123

USB selcal FM-CH wkg Gander/Selcal check. KING 60 0124 USB wkg Gander/ARP 54N30W F250. Air Canada 866 0129 USB selcal CQ-KR wkg Gander/Selcal check. United 946 0136 USB selcal AG-CR wkg Gander/Selcal check. Tower 36 0227 USB selcal EF-AH wkg Gander/Selcal check. Air Canada 880 0304 USB selcal HP-EF wkg Gander/Selcal ck.(TO)
5628 Honolulu 1115 USB wkg several flights, Posreps. (AW)
5637 SX-OAE: 1252 USB B-747 radio check w/Athina R. (CK) Unid 0320 USB Good sig into Long Island...Greek language...definitely wkg aero ...Probably Limnos Aero. (JC5) RRM333 2030 USB Calling unknown station/dep.OIAW & req.Otepeni wx. (RD3)
5649 Ascot 5625 2137 USB Gander (C-130, RAF) fl210 climbing 230 (BH) Gander Radio NF, CAN (NAT-C MWARA) 0259 USB wkg Speedbird (BAW) 214 w/posrep 50N/40W 0257, FL 370, est 51N/30W 0338, 51N/20W next, adv at 30W call Shanwick this freq. At 0308 wkg Aeroflot 342 advising neg selcal, adv to maintain listening watch. Shanwick, IRE (NAT-C MWARA) 0309 USB wkg Gander re IceAir 920, Gander adv is on 2872. Gander Radio NF, CAN (NAT-C MWARA) 0311 USB wkg Speedbird 6746 w/selcal ck KM-CH (747 G-AWND). Gander Radio 0600 USB wkg Kuwaiti 112 w/posrep 52N/40W 0556, FL 390, next 50N/30W 0642, adv at 30W call Shanwick. Shanwick 0607 USB wkg Air France 318 w/posrep at Fl 330. (RB) SWR104 2013 USB Swk/55N10W 2012 F330 55N20W sel/BJEQ HBIPN A310. BAW4 2013 USB SWK/SN20W 2012 F565 climbing SN/15W 2022.To 135.6 RRR5973 2015 USB Swk/sel-check/AJCG XV197 C130. RRR5971 2017 USB Swk,Gan/Rx.Thunderstorm warning in area 50N/18W selcal/AHGJ XV176 C130. AFR040 2018 USB Swk/55N/20W 2017 F350 56N/30W 2100 56N/40W. (RD3) OE-GHS 0100 USB selcal GL-AD wkg Gander/ARP OYSTR 0052 F410. Ukraine 5202 0150 USB selcal GK-HM wkg Gander/Selcal check. Lufthansa 431 0201 USB selcal CG-AE wkg Gander/ARP LOACH F330. PT-OEX 0207 USB wkg Gander/ARP 54N40W F390. Lufthansa 435 0212 USB selcal LM-CD wkg Gander/Selcal check new A340 D-AIGL??. I-2029 0222 USB selcal BD-GJ wkg Gander/ARP 49N50W est 0226. Virgin 076 0230 USB wkg Gander/ARP 52N40W F370 MCO-MAN A340. Scandinavian 912 0241 USB selcal FL-DM wkg Shanwick/ARP 60N30W F330. KLM 692 0256 USB selcal DL-AM wkg Gander/Selcal check. LOT 002 0258 USB selcal BQ-CL wkg Gander/ARP PRAWN F350. Turkish 582 0314 USB selcal ER-CF wkg Shanwick/ARP 49N30W F350 .82. New Zealand 2 0332 USB selcal CP-GL wkg Gander/ARP 65N60W F370. Air-India 112 0223 USB selcal JL-CG wkg Gander/Selcal check. Speedbird 218 0248 USB selcal EF-HL wkg Shanwick/Selcal check. (TO)
5655 Kuala Lumpur Aero (SEA) 2200 USB Some distance traffic. Singapore Aero (SEA) 1835 USB Loud and clear with the usual flts. (HW)
5658 Addis Ababa Aero (AFI) 2200 USB What shall I say, the normal QRM! Asmara Aero (AFI) 2200 USB normal tfc. Bombay Aero (AFI) 2200 USB normal tfc. Cairo Aero (AFI) 2215 USB normal tfc. Khartoum Aero (AFI) 2200 USB normal tfc. Lahore Aero 2310 USB Actually wkg a flight! Nairobi Aero (AFI) 2200 USB Trying to contact everybody! Tripoli Aero (AFI) 2210 USB Not concerned abt. anyone else on the freq! (HW) SWR292 2255 USB Ktm,Cairo/ORNAT 2254 F330 ALVOR 2328. ELY512 2255 USB Addis/Nbo-RUDOL 2252 F330 SHALA 2316 ADS 2318. KLM569 2256 USB Ktm/EPSIX 2254 F350 AVONO 2315. SAB563 2259 USB Ktm/Cairo/ALVOR 2259 climbing F310 ORNAT 2338. AFR491 2302 USB Ktm,Cairo/ME 2301 F350 UMINI 2317 LXR 2335. ELY088 2317 USB Cairo/DEDLI 2317 F360 ! SKH 0005 TOPLA next From Bombay to Tel Aviv sel/KLBD 4XAXB B747. AFR445 2223 USB Ktm,Cairo/TOKAR 2222 F350 ME 2233 ALEBA 2254 UMINI (RD3)
6532 Tokyo 1002 USB wkg "Navy Zero Lima 550" (AW)
6535 Abidjan Aero (SAT) 2300 USB Very faint. Dakar Aero (SAT) 2300 USB Giving wx to a KLM flight. (HW) Lufthansa 501: 0227 USB w/Canarias @ "MOGNI" (08-33.5N/26-50.7W). Ascot 3221: 0230 USB w/Dakar @ "APINA" (14-44.7N/018-00W). Speedbird 245: 0323 USB w/Dakar @ "KENOX" (14-48.6N/028-29.5W) "BP-CK" G-BNLN 747-400 "Transmitting in the blind". Heavylift 878: 0312 USB w/ Dakar @ "ONOBI" (13-41.4N/ 24-25.8W) Antonov AN-124-100 RA-82445 FL240 .56mach. (JSM) TBA878 2310 USB Dakar/routing via KENUX,Dakar req.regn & s/c sel/JKCS PTTAI B767. AZA681 2315 USB Dakar/POROS 2312 F330 YP To call Dakar 120.5. GFA990 2342 USB Canarias/ROYAL 2340 DAKHLA 2349 F350. (RD3)
6556 Perth Aero (SEA) 1845 USB Loud and clear with MAS 201. (HW) Singapore 288: 1424 USB w/Perth @ "IPKON" (08-5.3S/108-14.6E) "AL-GJ" 9V-SMH 747-400 Singapore-Christchurch. Malaysian 121A: 1444 USB w/Perth @ "IDMER" (17-51.6S/116-22.2E) "BJ-ER" 9M-MPD 747-400

Kuala-Lumpur-Melbourne (JSM)
6577 New York Aero (CAR) 2315 USB Positive ID. (HW) New York (CAR-A MWARA) 2338 USB wkg West Indian 424 w/posrep, wx, selcal ck. (RB) Canadian 100 0343 USB selcal DQ-CM wkg NY/Selcal check (TO)
6586 New York (NAT-B) MWARA 0030 USB wkg Speedbird 292 (BAW) w/posn JESSE 0029 FL 330, est FLORY 0055, selcal ck KM-CH (747 G-AWNO). (RB) BAW74 2312 USB Accra/DENOR 2311 F310 Niamey 2329 In contact w/Niamey on VHF. (RD3) Continental 701 0011 USB selcal DK-HL wkg NY/Selcal check. Aeroflot 342 0012 USB wkg NY/oceanic clearance to EINN (TO)
6604 Gander Volmet 2220 USB Positive ID. New York Volmet 2218 USB Positive ID. (HW) New York Volmet (NAT-VOL) 0535 USB w/aviation wx/terminal forecast. (RB)
6617 Kiev Volmet 2250 USB Positive ID, first time I really listened. Moskva Volmet 2240 USB positive ID. Rostov Volmet 2230 USB positive ID. St.Petersburg Volmet 2235 USB Pronounced as Sankt Pjetersbourg. (HW)
6622 United 916 0050 USB wkg Gander/amended speed clearance (TO)
6628 New York (NAT-E) MWARA 0231 USB wkg West India 900 w/posrep 18N/60W 0229 FL 210 climbing 310, est 23N/55W 0323, 27N/50W next, selcal FG-BC (L1011-500 9Y-TGJ). Santa Maria AZR, (NAT-E) MWARA 2311 USB wkg Air France 443(?) w/posrep, s/call EJ-BL (747 F-GCBA). New York 2313 USB wkg Air France 227 w/posrep, 18N/5412W 2313 FL 330, est 20N/50W 2346. At 2318, wkg Air France 571 w/posrep, 37N/50W 2318 FL 370, est 39N/60W 0028, speed mach .80. At 2319 wkg Speedbird 168 (BAW) w/posrep 2 7N/50W 2319 FL 310 climbing to 350. (RB) Speedbird 265 0246 USB selcal BD-FL wkg NY/ARP TOOMS F330 (TO)
6637 Connie 6161C: 0318 USB w/Miami enrt Miami N6161C DC8-55F. Buffalo 161: 0302 USB w/Miami SVMI-Miami CG-DJ N161DB DC8-61. Connie 61M: 0440 USB w/Miami on grnd Guatemala at 0437 with #3 engine overheating to max levels N6161M DC8-55F (JSM) Miami LDOC (Connie Op's, Miami, FL) 0714 USB wkg Fine Air 54 w/rdo ck; at 0742 wkg Connie 809 re departed Caracas & ETA Bogota, CLM. Houston Universal Radio, Houston, Tx US, (NA-OC-LDOC) 0733 USB wkg N33GG (Falcon bizjet) at FL 410 w/selcal ck DH-GM. (RB)
6640 Evergreen 470: 1341 USB w/SF LDOC 8'x6' flap well panel disintegrating in flight, slowly ripping from wing! a/c starting to vibrate badly; presently 2 hours out enrt Hono; N470EV 747-273C Freighter / see 5574 log (JSM)
6676 Sydney Volmet AUS (SEA-VOL) 0602 USB w/aviation wx for Sydney, Brisbane, Perth, others. (RB)
6730 Tashkent Volmet 2225 USB Positive ID. (HW)
8825 New York (NAT-E MWARA) 2300 USB wkg Frenchline 202 w/posrep. Santa Maria, AZR (NAT-E MWARA) 2301 USB wkg Lufthansa 521 w/posrep, 34N/40W 2301 FL370, request 390, selcal ck LM-FS (A340, D-AIGA). (RB) Iberia 6620 0000 USB selcal DH-GM wkg NY/Selcal check. Speedbird 254 0021 USB selcal BD-CK wkg NY/Selcal check BGI-LGW. Air France 583 0026 USB selcal JK-AP wkg SM/ARP 24N40W F370 req oceanic clr after 40W; enrt Cayenne-CDG. N174SJ 0036 USB selcal AP-RS wkg NY/ARP F410 and selcal check. Avianca 020 0116 USB selcal BQ-GK wkg NY/ARP F350 BOG-MAD req oceanic clr. VIASA 722 0236 USB selcal CF-LM wkg NY/ARP 39N40W F370. (TO)
8828 Hong Kong 1015 USB Volmet wx for the area. (AW)
8831 HZ-HE4 1522 USB Shanwick (B-727) 50n 20w 1520 fl330, 49n 15w 1542, GUNSO, req route after GUNSO: UN491 to TAKAS. -> 135.6. NAF 49 1527 USB Gander (KDC-10) 52n 30w 1521 fl330, 52n 20w 1603, 52n 15w, selcal CGHL (BH)
8843 Honolulu (CEP-1/2 MWARA) 0358 USB wkg American 72 w/posrep, wx.(RB)
8855 Recife (SAM-NE MWARA) 0009 USB wkg Cargolux 761 w/posrep, req for FL 370. Piarco Radio (Port of Spain) Trinidad (SAM-NE) 0010 USB wkg AirEuropa 156 w/req for chg FL410 tp 390. Leticia Radio, COL (SAM-C MWARA) 2351 USB wkg unid flt _07 w/2350 posrep, sounded like FL410; at 2355 wkg unid Latvian a/c(?) giving app registration YL-YLG. Manaus Radio, BRAZIL (SAM-C MWARA) 2352 USB wkg DAC (or GAC or GAG?) 035, w/posrep. Dakar Radio, SEN (SAT-1 MWARA?) 2355 USB wkg Air France 215 w/posrep, selcal CP-GQ (747 F-GISB). Piarco Radio (Port of Spain) Trinidad 2359 USB wkg unid flt 405 & relaying posn to another unid station. (RB)
8879 Malev 091 0220 USB selcal CP-DS wkg Gander/ARP 50N40W F370 (TO)

8891 Condor 064: 2222 USB w/Baffin @ "NORTH POLE" "CM-QS" D-ABUF 767-300E. Japan Air 629: 2240 USB w/Baffin @ 74N/141W "DG-BC" JA8160 747-200F (on lease from JST). Speedbird 283: 1636 USB w/Churchill @ On Polar Track "DELTA" at 70W "BR-AG" G-BNLY 747-400. Canadian 79: 1642 USB w/Iceland @ 74N/60W "HL-EJ" C-FCAG 767-300. Speedbird 83: 1648 USB w/Iceland @ 72N/50W "KM-CG" G-AWNN 747-100. Air Canada 855: 1749 USB w/Iceland @ 73N/80W "HP-EK" C-GDSS 767-200E. Canadian 75: 1755 w/Iceland @ 72N/60W "HL-EF" C-FCAE 767-300E, Frankfurt-YVR. KLM 681: 1813 USB w/Baffin @ 73N/70W "AF-ER" PH-KCA MD-11. (JSM) Delta 58 0118 USB selcal EQ-BG wkg Montreal/ARP 15 mins past G80W F350. Korean 981 0120 USB wkg Baffin/ARP 7653N6535W F330 THT next. Air France 6701 0121 USB wkg Iceland/ARP Polar S20W F370. N50AE 0133 USB selcal KR-AG wkg Montreal/ARP 6327N7641W est 0141 F370. Balair 187 0205 USB wkg Iceland/oceanic clr to LSZH. Scandinavian 938 0207 USB wkg Iceland/ARP 70N40W F330. Korean Air 981 0307 USB wkg Iceland/maintaining F370 rpt on 126.55. ESKAN 15 0308 USB wkg Iceland/cleared to .82. Canadian 74 0312 USB wkg Iceland, oceanic clrance to FRA F330. Lufthansa 493 0314 USB wkg Iceland, oceanic clrance to FRA F330. United 960 0317 USB wkg Iceland/oceanic clrance to CDG F330. Balair 187 0331 USB wkg Iceland/ARP 69N40W F370. (TO)

8903 CTM 2996 1900 USB Brazzaville (An-124, UR82009, Antonov Design Bureau) dep Bangui 1842 climbing fl350, ekim 1909, sulby 1955, eta Libreville 2020, reg.UR82009, a/c type AN124 1910 "ekim 1909 fl350, tunib 1936, olte (same as sulby?). CTM 1162 1917 USB Brazzaville (DC-8, F-RAFC) in French (Cotam onze-soixante-deux) dep Bangui 1908 eta Ndjamena 2025 fl390, registration FRAFC, selcal JKFH. TR-KHC 1755 USB Luanda (Gulfstream III), Luanda relaying to Libreville: G3, dep Windhoek 1820 eta Libreville 1925, FL 390. (BH) JM 586 1915 USB a/c no 148891 in contact w/Brazzaville,going to Bangui. A2-AIU: 1930 USB from Bangui to Yaounde. COTAM 1044: 1945 USB from Bangui to N'Djamena. COTAM 2987: 2000 USB to Bangui (JP2) Kinshasa COG (AFR-4 MWARA) 0134 USB wkg unid flt 053 w/0133 posrep. (RB)

8906 CTM 1024 2141 USB Santa Maria (FAF) fl370 climbing 370, no joy on 5598. Reach 9411 2151 USB New York revised eta 40n 60w 2217 (BH) Britannia 171B 0055 USB selcal JR-AD wkg NY/Selcal check. Iberia 6620 0029 USB selcal DF-GH wkg NY/ARP 34N60W F310. Air France 031 0032 USB selcal EK-FH wkg NY/ARP 41N60W F330. Condor 109 0114 USB selcal LM-BS wkg NY/Selcal and req any higher to F350. TWA 904 0134 USB selcal EF-AL wkg NY/ARP 44N50W F310. NRN 331 0143 USB wkg NY/ARP 40N45W F230 req F250 (TO)

8918 New York (CAR-A MWARA) 0513 USB wkg United 992 w/posrep, selcal ck JP-DG (767 N606UA). (RB)

8921 Speedbird 8921: 0301 USB clg? no joy. (KW2) (probably Speedbird -BAW-London -LOGS)

8930 Delta 109 1044 USB Stockholm (Tristar, N740DA) selcal AHCM. Air France 054 1045 USB Stockholm (B747, F-BPVS) selcal EJAL. United 941 1046 USB Stockholm nothing heard. Delta 133 1012 USB Stockholm (B767, N172DN) selcal EQAC. Amtran 503 1015 USB Stockholm (Tristar N189AT) N189AT dep ETAF (Rhein Main) 0950/04 eta CYQX (Gander)1553, fuel on take off 134.2, fuel uplift 17370 US gallons, 280 pax, delay code 81 10 minutes, 0 fuel weight 291.2, selcal BJHK. All Nippon 201 1018 USB Stockholm UHT 1015 fl 11600 meters, eta London Heathrow 1450 fuel remaining 125.0. Delta 15 1021 USB Stockholm (MD-11, N804DE) over Brussels, selcal EQBD. Liberty VE 1034 USB Stockholm nothing heard. Delta 61 1039 USB Stockholm (Tristar, N751DA) selcal AHEG. World 275 1712 USB clg from Saudi Arabia. Posrep: ETUKO 1705, FL 350, fuel remaining 53.0, new eta Jeddah 1935 selcal GHCR (not sure of the selcal code). World 276 1715 USB departed Surabaya (Indonesia) 1640/55, eta OEJN (Jeddah) 0347, fuel on departure 175.0. Avianca 015 1720 USB departed LFPG (Paris de Gaulle) 1424/1442, eta SKBO (Bogota, Colombia) 0150, 46n 20w 1658 fl370, 44n 30w 1755, 42n 40w, fuel remaining 98.9, selcal GLEJ, (N985AN, Boeing 767). At 1730 req wx LPLA (Lajes, Azores) CYQX (Gander, Canada). Saudia 5349 1741 USB operated by Tower Air, departed DAAO (Oran, Algeria) 1637/1651 eta OEJN (Jeddah) 2148, 0 pax, take off fuel 135.0, zero fuel weight 360826, fuel uplift 12213 US Gallons, selcal AHDG (Boeing 747, N603FF, Tower Air). VR-BNA 1745 USB on the ground Basel, Switzerland,

->11345 (Boeing 727). (BH) TLE591 2336 USB Stockholm/Malaga to Marseille p/p to Air Tolouse. VRG743 1922 USB Stockholm/On grnd EDDF req.s/c chk AMGP PPVOQ MD11. DAL39 0935 USB Stockholm/Radio & selcal ck/AHEK N753DA L101. DAL57 0943 USB Stockholm/Radio & selcal ck/EQBH N807DE MD11. DAL77 0957 USB Stockholm/Radio & selcal ck/CDBR N181DN B767. RIA1700 1045 USB Stockholm/dep.LIRN 1020/35 ETA LICZ 1120 81pax. AMT4524 1057 USB Stockholm/dep.EINN 1035/47 ETA KNHZ 1634 Fuel129.4 196pax uplift 16371 usg sel/BJHK N189AT L101. TOW602 1058 USB Stockholm/dep Orly 0942/00 eta JFK 1730 46 pax pos'n LND 1049 F350 sel/AHDJ N602FF B747 (RD3)

8933 New York Arinc (NA-CC-LDOC) 0251 USB selcal'ing & clg Eagle flt 2, no joy here. Cedar Rapids LDOC, Ia (NA-CC-LDOC) 0339 USB wkg United 991 w/selcal ck KM-BP (767 N610UA), adv 8933 primary, 6637 secondary. At 0346 wkg United 906 w/posn, selcal ck HP-HQ (ID?). (RB)

8942 Singapore 1020 USB Very busy w/several flights, Posreps. Later Hong Kong wkg "Amaco 881" at 1025 (AW) Air Mike 878: 1416 USB w/Singapore @ MEVAS (03-55.7N/105-59.8E) 8 mins out of Singapore for Manila JK-BH (JSM)

8951 Tokyo 1016 USB general wx for the area. (AW)

8957 Shannon VOLMET: 0625USB Voice Synthesized. (AM2)

10033 Connie 815: 2300 USB w/Miami just departed Santo Domingo for Miami; N815CK DC8-63F (JSM)

10072 Speedbird Concorde 098: 1649 USB wkg Speedbird London Located in Western Atlantic area next to Gander. Speedbird 93: 1924 USB clg Speedbird London no joy but mentioned flying Northern Canada. (KW2)

10075 United 990: 0026 USB w/Cedar Rapids just off Rio de Janeiro for Miami JP-DL N609UA 767-200(ER). United 992: 0020 USB w/Cedar Rapids Belo Horizonte to Miami JP-DE N602UA 767-200(ER). (JSM) American 924: wkg Cedar Rapids 0235 USB Operational data passed and asked rdo op why call not answered on 8933 advised thunderstorms in area but 8933 remains primary 10075 secondary. Continental 475: 1605 USB clg Eastern Radio no joy. United 993: 0323 USB wkg Cedar Rapids rdo ck ok. ?-997: 0326 USB wkg Cedar Rapids Selcal ck AGDR. (United 997, 767 N6454A -LOGS) American 906: 0334 USB wkg Cedar Rapids ops data wkg Selcal ck APKQ.(KW2) (767 N374AA -LOGS) MIKE PAPA TANGO 1923 USB passing some kinda WX report to 401 TANGO ECHO,MPT also advised 401TE that he could use 179.40 while on the ground in Panama. (MF2) Houston: Universal Radio, Houston, Tx, US 2216 USB wkg Connie 809 w/pp Connie Op's for wx. New York Arinc (NA-CC-LDOC) 2217 USB wkg DHL 530 w/pp to company, 3 NM SE of TABLO(?) at FL 310, ets Miami 2327, req radar wx for KMIA. Cedar Rapids LDOC, Ia, US (NA-CC-LDOC) 2225 USB wkg United 942; at 0248 wkg unid "BW" w/selcal ck ??-FS, QSY 8933. N9300 G-IV Gulfstream Bizjet 2232 USB clg Universal Houston at posn 49N/58W, no joy, Cedar Rapids clg N9300 no joy.(RB)

10096 United 990: 0230 USB clg?? no joy. (KW2)

11282 Honolulu (CEP-1/2 MWARA) 0146 USB wkg United 199 w/posrep fol by selcal'ing United 190 w/clearance msg. At 0149 wkg Northwest 936 w/posrep. San Francisco (CEP-1/2 MWARA) 0151 USB wkg unid flt 411 (Air India?) w/posrep for Honolulu, request FL 370, adv contact Honolulu now on 13273, transponder code 4027 & contact Anchorage ATC at 153W on 125.1 (VHF). Honolulu 0308 USB wkg REACH 0158 w/0307 posrep, FL390, adv contact Honolulu Center now on 127.6. (RB)

11306 BMA'MN' 1929 USB Portishead/o/h Portugal no reply. GOBMN B737. (RD3)

11330 New York (CAR-B MWARA) 1642 USB wkg Delta 162 w/selcal ck, HQ-DE (767-300ER) then DHL509 w/1641 posn, adv contact Miami on 135.7; at 1652 w/Air France 032, posn BERGH at 1652, FL370, est JESSE 1711;at 1701 w/American 642, posrep FL 310, selcal HQ-RS (767 N378AN). New York 1702 USB wkg American 657 reporting southbound '763' for Grand Turk, selcal ck BP-EK (A300, N7062A), adv 8846 secondary; at 1706 Speedbird 295 w/posn BERGH 1706, FL 370, JESSE, LOUIZ next.(RB) UPS 2007: 1545 USB wkg New York Air (RM)

11345 F-GHEK 1954 USB Stockholm (?) no joy. PH-TKC 2027 USB Stockholm (B-757, Transavia) pp Ops: problem with Greek and Brussels ATC, on the ground Rhodos, also referring to flight 414 at Kos. In Dutch. EBA 807 2031 USB Stockholm (B-737, EuroBelgian Airlines) pp Ops, abt new flight plan/route, in FF. Ops called the a/c "LTV", which is OO-LTV. Transavia VT 1024 USB Stockholm (B737 PH-HVT) technical problem, original destination Arrecife (Canaries), discussing

diversion to either Fuerteventura or Las Palmas for technical assistance (partially in Dutch) (BH) FRADA 1055 USB Stockholm/pos'n 39N12W opr. CTM1025 pp to AFR Dispatch,Paris A310 French AF. MAJ148 1110 USB Stockholm/Zurich to Bucharest.Fl/t was tx. in AM & Stockholm had difficulty rx.kept telling a/c to change to USB-pilot couldn't understand!! AEL762 1112 USB Stockholm/On ground Milan w/selcal chk/CSHP EICJA B767. JAL445 1113 USB Stockholm/o/h UHT 1107 F11600m Fuel 98.4. AFR520 1113 USB Stockholm/Req. radio and selcal chk/FLDJ FGETA. AAL95 1114 USB Stockholm/Req. selcal chk/JKRS N387AM B767. CFG'UE'1115 USB Stockholm/Req.private p/p.To call 10805. DABUE. DAL14A 1115 USB Stockholm/pos'n ARISA 1111 F350 Fuel 29.7. EBA940 1117 USB Stockholm/p/p to Ops.presently holding due to problem at Faro.Will hold for another 40Mins then div.to Porto Santo. MI'EC' 2031 USB Stockholm/Called o/h Barcelona req. p/p to Company DAGEC B737 (RD3)

11396 Jakarta 1028 USB wkg Australian flight "VH-NJT" Posrep (AW) New York (CAR-A MWARA) 2231 USB wkg N372BC w/posnrep, hand-off to unid VHF 132.15, selcal ck ??-GH. (RB) LTU441 2216 USB NYC/29N60W 2215 F330 37N50W 2333 42N40W.To 8825 (RD3)

13273 Honolulu (CEP-1/2 MWARA) 0152 USB wkg unid flt 411 w/ack of posrep/selcal from 11282, adv secondary is 10048; at 0153 selcal-ing/wkg Northwest 1 w/company release msg; at 0159 wkg Delta 51 w/selcal ck, had problems reading on 13329. (RB)

13282 Honolulu Volmet (SP-RDARA) 0438 USB w/aviation wx. (RB)

13306 New York (NAT-A MWARA) 1653 USB wkg TUFF 15 w/clearance FL 26 to 28, report level, 15 reports moderate turbulence; at 1654 wkg Air Europa 137 w/posrep 40N/50W 1654 370; at 1655 wkg Speedbird 163 w/posrep, 11330 or 8846 secondary. New York 1659 USB wkg HAWK 83 (B-1B training sqd Dyess AFB) w/clearance to leave freq, report back on station (refueling?); at 1704 Speedbird 163 w/posrep 31N/50W 1702 310; at 1718 wkg Cubana 9769 w/posrep 31N/50W 1718 320, next 30N/60W. New York 1800 USB clg Martin Air 603, no joy; at 1926 sending selcal & clg DHL 513. (RB)

13330 New York Arinc (NA-CC-LDOC) 0047 USB wkg Continental 4 w/selcal ck CM-BE (DC-10 N87070). Eastern LDOC (NA-CC-LDOC) 1448 USB wkg unid flt w/company msg, new one for me, also hrd by another WUN'er on 10075. New York Arinc (NA-CC-LDOC) 1726 USB wkg DHL 508 w/fuel status report. (RB)

13342 4XCTE 0927 USB Stockholm/req pp to company. Westwind2 (RD3)

13354 San Francisco (CEP-CC-LDOC) 0018 USB wkg unid flt w/posrep, QSY to 5574 for selcal ck (nothing hrd there). San Francisco (CEP-CC-LDOC) 0105 USB wkg unid flt 943 at FL 390, mach .84; at 0133 wkg Air France 071. (RB)

15964 Portishead Radio, UK (EU-CC-LDOC) 1716 USB wkg unid flt w/selcal ck, adv maintain selcal watch on '1106'. (RB)

17904 Qantas 67 at 0648 USB clg Jakarta. (AW)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

24 Unid: 1700 RTTY 100/85. w/enc (RM)

74 Unid: 2315 RTTY 120/85. w/enc (RM)

111.4 SOA211: Warsaw Meteo, POL 1110 FAX 120/576, 850 hPa prog chart Europe (KB)

134.2 DCF 54: Offenbach meteo 1743 FAX 120/576 500/1000 hpa chrt (BvR)

147.3 DDH47: Hamburg Meteo, Germany 0933 RTTY 50/85 WX (Wetterdienstes). (PB)

2607 FUO: French Navy Toulon, F 2019 RTTY 75/850 RY's + ID (PB)

2806 IGJ41: Augusta Naval, Sicily 1930 RTTY 850/100 Test tape; frequency & shift very variable (JD2)

2815.1 MGJ: Faslane Naval Base, Scotland 1800 RTTY 380/75 CARB; 7-bit Baudot; unusual shift (JD2)

3172.5 IMB1: Rome Meteo,Italy 2025 RTTY 50bd/850 AAXX WX for Syrian airports (MC)

3190.5 Unid: 2106 Piccolo-12, crypto (MC)

3203 MTI: Plymouth Naval, UK 1420 RTTY 850/75 clg MTT; 7"-bit Baudot calling, 7-bit crypto tfc (JD2)
3219.5 RETWBG***: Guardia Civil,Girona 1947 ARQ 100bd/400 Police MSGs in SS to RETXO (MC)
3326.7 FDY: French Air Force, Orleans 2024 RTTY 50bd/400 (1 stopbit) "ryry... test de fdy fdyfdyfdy..." (MC)
3331 Unid: 2125 RTTY 50/200 atu-80 msgs (DG)
3362.8 German Mil, loc?? 2015 VFT: 3ch of 192bd/170 FEC-100, crypto tfc (MC)
3508.9 Unid: 1955 TT2300b 100bd tfc (MC)
3581.5 FDY: FAF Orleans 2129 RTTY 50/400 testing (DG)
3588.5 Guardia Civil 2047 ARQ 100/400 Spanish chatter (DG)
3745.5 FDY: FAF Orleans 2315 RTTY 50/400 testing (DG)
4018 Russian Mil, loc?? 2133 81-81 81bd/200 tfc (MC)
4162.1 HWN: FN Paris 0700 RTTY 75/850 appears to replace 4295. marker "de hwn ry's sg's figs". two exchanges w/ships w/indefinate csigns "fv" & "fr". off air whilst in qso. "qsl p 060725z". (DW)
4173.5 WLBX M/T Lawrence H. Gianella 0544 ARQ w/tlx re arrived Manchester, login now 11646 GIAN.(RB) C6KT2: M/V SPRINTER 0354 ARQ tlx to network shipping. login 61377 c6kt2. WEZM: SS EWA 0508 ARQ w/qrg rpt. id 0210. login 10949 wezm. VRIM: BT NEPTUNE 0415 ARQ wkg kfs etd long beach, eta panama. WFDW: KEYSTONE RHODE ISLAND 0548 ARQ wkg kfs. arr l.a. login 11227 wfdw. KCDK: M/V GUS W. DARNELL 0605 ARQ wkg kfs w/movrep. dep sfo eta long beach. (WT)
4175 KNJD: Blue Ridge 0525 ARQ AMVER msg selcall 11132. (AB2) 3EMQ8: M/V Tasman Star 0441 ARQ w/tlx for ETA to Port Elizabeth, ex-UZKX? (RB)
4178.5 KIOH: SS GOLDENGATE 0011 ARQ w/bbxx. (WT)
4179.5 PGDF: M/V NEDLLOYD EUROPA 0725 ARQ AMVER for route Southampton/Port Said. login 84864 PGDF. (HOOD)
4218.5 SAB218: Goeteborg Radio 1935 ARQ CQ (DG)
4227 IGJ42: Augusta Naval, Sicily 1850 RTTY 850/100 Test tape; frequency & shift very variable (JD2)
4232 FUF: FN Fort de France 0052 RTTY 75/850 testing (DG)
4277 UIW: Kaliningrad, Russia 1720 RTTY 170/50 RYs and msgs to ships (JD2)
4306 SPE21: Szczecin Radio 2155 FEC tfc list (DG)
4511.5 OA***: Irish Navy, Dublin 2025 ARQ 5LGs to "37" plus opchat in EE. (MC)
4524.7 SUU: Cairo MET 2158 FAX 120/576 blurred chart. (DW)
4539 Unid: 1742 PSK 1800bps UNID System (MC)
4716.7 Tunisian Navy HQ 1900 ARQ duplex net Gulf of Hammamet patrol rpts + 5L cipher (ANEE)
4765.2 RFFP: MoD Paris 2000 ARQ-M2 200/400 idling (DG)
4855 NPM: USN Pearl Harbor 0651 FAX 120/576 wx faxes (DG)
4903 DHM44: Grengel Meteo, D 1215 RTTY 100bd SYNOPs Germany (KB)
4944.8 Unid: 2150 RTTY 50bd/85 crypto after "ouuuouuu" with mil-style opchat in EE (MC)
5006.5 Unid. 0100 RTTY 50/850 w/enc (RM)
5060 MTI: Plymouth Naval, UK 1420 RTTY 850/75 clg MTT; 7"-bit Baudot clg, 7-bit crypto tfc (JD2)
5097 CFH: CF HALIFAX NS, CAN 0554 RTTY 75/850 naws de cfh zkr f1 ... (SS)
5121 RFFHCA: FF Ajaccio 2013 ARQ-E 192/400 4crc. beras. intermittent sync at times. no tfc. link to bastiareturn freq 5430 khz. (DW)
5164.4 French Prefecture NET 1410 ARQ no tfc. single period of selcals toil (tours). No reply. (DW)
5190 Unid: 0756 ARQ-E 72/400 idling (DG) (could be RFFZEFA circuit UCF -LOGS)
5223 Unid: 2139 ARQ-E 72/387 idling (PB) (could be RFFEOFA circuit UFA -LOGS)
5255.2 Russian Mil, loc? 2017 MS5 12 tone vocoder (3300Hz pilot) (MC)
5285 RBX71: Tashkent MET 1818 FAX 90/576 blurred chart, //8083/9150, end of chart. (DW)
5325 RCW75: Alma Ata MET 1640 FAX 60/576 blurred chart w/observations.(DW)
5380.5 Guardia Civil 2003 ARQ 100/400 spanish text (DG)
5387.2 Unid: 1745 ARQ-E3 200/400 idling (DG)
5400 YOG37: Bucharest Meteo 0631 RTTY 50/400 meteo rpts (DG)
5430 RFFHCB: FF Bastia 2155 ARQ-E 192/400 4crc. betas. intermittent synce at times. no tfc. link to ajaccio - return freq 5121 khz. (DW)
5475 Unid: German Army?,??? 1928 VFT: 3ch of 192bd/170 FEC-100, spaced at 680Hz ends "%%%%%%" (MC)

5728.2 Unid: 2033 Link-11 (MC)
5752.5 HBD20: MFA Berne 1740 ARQ 5FG'S (DG)
5755 AXI32: Darwin Meteo 2110 FAX 120/576 wx faxes (DG)
5798.5 Unid: US Navy 2245 PACTOR 200/200 mars grams (DG)
5819.9 Unid: Russian PTT,??? 2035 OQPSK 1280bps (MC)
5852.4 AOK: USN Rota, Spain UTC? FAX 120/576 can see isobars only. (RT2)
6223.3 Rig Tommy Craighead 0423 ARQ ww Noble Drilling Portharcort. At 1738, wkg same, at 1836 w/same. (BvR)
6263 SGLU: M/V Winter Wave 0518 ARQ w/AMVER/PR, bound Rotterdam. ELOF4: M/T Bruce Smart 0726 ARQ w/"TK POS" tlx, tanker position?, passes "D22" & off, login 636009539 SMAR. (RB) 3EBV6: M/V LEODIS 0315 ARQ w/tlx login 29633 leodas. P3KQ2: M/V RAIN FOREST 0748 ARQ w/tlx. UNID: UNID 0200 ARQ clg/sab login 29116 fricar. (HODX, Frio Caribic -LOGS) 3FUM4: M/V JOHNY C. 0552 ARQ w/tlx login 26955 jony (WT)
6263.5 C6LN5: M/V CAPRICORN 2025 ARQ msg to Piraeus. login 63168 C6LN5. (HOOD)
6264 WEZM: Ewa 0342 ARQ AMVER msg selcall 10949. (AB2) UTXP: TKH KOMPOZITOR DARGOMYZHSKIY 2022 ARQ psn rpt to USU. (HOOD) KNLO: SS MANUKAI 0144 ARQ w/amver/sp oakland to honolulu. (WT)
6265.5 CRYS: M/T INAGO 0132 ARQ rx only, login 51860 crys. ELIG7: M/V INDIAN OCEAN 0415 ARQ w/obs, bbxx login 24750 indo (WT)
6266 LNVP3: Song of Norway 0401 ARQ coded tfc. (AB2)
6267 OYEK2: M/V MEDALLION 0312 ARQ w/tlx. login 86009 oyek2. (WT)
6267.5 3FGV2: SS SEABREEZE I 0417 ARQ w/tlx login 42202 sbrz (WT)
6269 WGZK: M/T Cheasapeake Trader 0630 ARQ w/AMVER/FR, login 11167 WGZK. (RB) ELBZ2: M/V SERAFIN TOPIC 0615 ARQ w/tlx login 24544 elbz2. WEHV: SS OVERSEAS ALASKA 0557 ARQ w/obs bbxx. login 11084 wehv (WT)
6273.5 WOVL: SS OVERSEAS ALICE 0736 ARQ w/amver/fr. login 11086 wovl. (WT)
6282.5 ELRL9: M/T BORNES 0323 ARQ opr mode chatting in ss. login 24915 born. (WT)
6317 UCE: Arkhangelsk Radio 1944 ARQ maritime tfc (DG)
WLO: Mobile 0947 CW CQ (EW)
6318 KLB: Seattle 0948 CW CQ (EW)
6320.5 9VG: Singapore 0952 CW CQ (EW)
6324 WCC: Chatham Radio 0605 FEC mib (DG)
6327 URDX: M/V Aleksandr Pokalchuk 1603 ARQ wkg Mariupol R. (CK) (this would normally be a shore frequency & Mariupol not logged here before -LOGS) WNU: Slidell 1005 FEC traffic list global radio network (EW) WNU: Slidell, La USA UTC? FEC ships trfc (rt2).
6334 IGJ43: Augusta Naval, Sicily 1850 RTTY 850/100 Test tape; frequency & shift very variable (JD2)
6341 Unid: 1015 FAX 120 very poor weather map (EW)
6341.5 YLQ: Riga Radio 1931 RTTY 50/200 CQ (DG)
6348 HWN: FN Paris 1146 RTTY 75/850 wkg french ship w/indefinate callsign "fl". gives "r ar r ar rar". long break then return to marker". (DW) HWN: Paris-Houilles Naval, France 1800 RTTY 850/150 idling & wkg "FG"; other freqs still 75 bd (JD2)
6371 GYU: RN Gibraltar 0022 RTTY 75/170 available ch's (RM)
6380 Unid: 1030 VFT unknown system (EW)
6385.2 FUO: FN Toulon 1610 RTTY 75/600 marker ry's sg's and id fuo. (DW)
6388 EBA: Madrid, Spain 1745 RTTY 170/75 Navarea Three warnings (JD2)
6395 TBA3: Izmir Naval 1620 RTTY 75/850 5FG for RTQGDBCY (CK) RTQGDBCY: Turkish Army 1902 RTTY 75/850 testing (DG)
6452.5 GYA: RN London 1317 FAX 120/576 Sea surface Temperature analysis. (BvR)
6456 CKN: CAN Forces Victoria BR COL 1137 FAX 120 weather map.end at 1040 (EW)
6496.5 CFH: Halifax RTTY 75/593 Canadian Forces coded wx (RT2)
6741.7 Tunisian Navy HQ 1900 duplex net Gulf of Hammamet patrol rpts + 5L cipher (ANEE) PLM: CARTHAGE, TUN 0525 ARQ clg PSTX (SS)
6768 Unid: 1751 ARQ-E 72/400 idling (DG)
6776.3 NOUMEA RADIO 1101 ARQ-M2 128.5/120 IDLE (EW)
6779.6 Russian forces 2120 QPSK 1280/400 (DG)
6781 Unid: 2241 ARQ-E 72/400 idling (DG) Unid: 0447 ARQ-E 72/350 idle (SS) (could these be RFFXL on 6781.3? -LOGS)
6796.7 Egyptian MFA? 2332 ARQ atu-80 msgs (DG)
6798 KUL: SOUD station 1844 RTTY 75/500 5FG'S (DG)
6805.4 Unid: German Mil? 1940 VFT: 3ch of 192bd/170 FEC-100, also on 5475kHz

(MC)
6832.6 Unid: 2308 QPSK 1280/400 (DG)
6835 GFL22:Bracknell 2338 RTTY 75/400 R wx codes (RM)
6836.7 Unid 2130 ARQ-E3/200 idle (RM) (possibly RFTPA Njamena? -LOGS)
6848 V5G***: Romanian MFA,Bucharest 1911 ROU-FEC 164.5bd/400 (Bitmask=24) "radiograma" to Paris (MC)
6890.2 RFFA: MOD Paris 2302 ARQ-E3/200 idle (RM) RFFA: 0438 ARQ-E3 200/325 idle (SS)
6891.5 Unid: 1946 TT2300b 100bd idle (MC)
6901.7 RFTJ: FF DAKAR, SEN 0434 ARQ-E3 192/390 idle (SS)
6911.3 Algerian Customs, Algiers 2051 Coquelet-8 26.7bd Coquelet-8 MSGs in FF from Algiers to regional Customs (MC)
6936.7 RFLI: FORT DE FRANCE, MRT 0431 ARQ-E3 192/425 idle (SS)
6945 Unid: 0749 ARQ-E 192/200 idling (DG)
6950 RJK78: Kiev meteo 0744 FAX 60/576 wx fax (DG)
6964 Unid: SOUD station 1825 RTTY 75/500 5FG'S (DG)
6966 FDY: FAF Orleans 1629 RTTY 50/400 testing (DG)
6982 Unid: 2043 ARQ-E 72/400 idling (DG)
6987 Unid: Russian Diplo,??? 1906 CROWD-36 in selcal mode (MC)
6988 AAH: Army MARS, Ft Lewis,WA 0540 FEC w/Armed Forces Day 1996 message from SecDef, //10151.5(RB)
6997.5 AAT3TFC: AA3USA: AAT1TFC: 2208 Packet USA MARS (RM)
6998 Unid: 2334 RTTY Baudot Ended xmsn while tuning in (RM) (was used by AAH for Armed Forces Day tfc, no other logs -LOGS)
7358.5 AAE: 0530 FEC US Army MarsSta Armed Forces Day msg (DW2).
7461 5YE: Nairobi,metro Kenya RTTY 100/850 listed but nu id (RT2).
7528.5 RETXX: MOI Spain 1205 ARQ msg tfc (DG)
7536.5 SESEF Norfolk Ships Electronic Systems Evaluation Facility, Ft Story, Va, US 1524 RTTY 75/850 w/10 mins of 'Foxes' for USS Ticonderoga (CG-47). (RB)
7541 Unid: SOUD station 1853 RTTY 75/500 5FG'S (DG)
7552.7 Unid: 1022 ARQ selcall to IPHW (EW)
7606.7 RFFA: MOD Paris 2345 ARQ-E3 192/425 idle. (RT2)
7620 GYA: RN London 1500 VFT 2x75bd, clg MTT (ANG)
7620 MTI: Plymouth Naval, UK 1230 RTTY 850/75 clg MTT; 7"-bit Baudot calling, 7-bit crypto tfc (JD2)
7643.2 RFLIG: FF CAYENNE, GUF 0535 ARQ-E3 192/425 idle (SS)
7659 HBD20: MFA Berne 1710 ARQ 5FG'S (DG)
7691 Unid: SOUD station 1854 RTTY 75/500 5FG'S (DG)
7705.7 RFTJ: FF Dakar 0624 ARQ-E3 192/400 8crc. betas. controle de voie at 0710z rftj de rftj. cct [tjd](to libreville). At 2208 8crc. betas. no tfc. (DW)
7721.7 Egyptian MFA, Cairo 1851 ARQ ATU-80 to Embassy Rabat (kds kdfykc) "TVVK" (MC)
7723.7 MFA CAIRO 1638 ARQ irs mode. constant space between bursts. then tfc in atu80. (DW)
7731.7 Egyptian MFA, Cairo 1826 ARQ in IRS mode (MC)
7744.2 Unid: 0752 Link-11 net (MC)
7746.7 Egy diplo (rome?) 1833 ARQ atu a tfc (BvR) Egyptian Emb Rome 1851 ARQ tfc in atu80, opr exchanges (huxd = over). At 1912 tfc in offline encrypt. from yphkg fljk (= boustan ruma). (DW)
7755.2 RFQP: FF Jibuti 2056 ARQ-M2 200/400 idling (DG) RFQP: FF Djibouti 2143 ARQ-M2 200/400 4crc. 2 chan. betas. poor sync. At 0644 4crc. 2 chan tdm. ch:a and ch:b, betas, offair (twice) momentarily at 0645 for few seconds. (signal seems too strong for location/time of day?) offair 0702z without tfc. (DW)
7760 RGH77: Arkhangelsk MET 1436 RTTY 50/1000 met traffic. At 0828 3SC//50/R/1000 marker "cq de rdh-77 rvz-73" and ry's then idle. (DW)
7761.9 RGH77: Arkhangelsk MET 0754 FAX 60/576 chart with obs. transmitter running slightly fast. (DW)
7770 GYU: RN Gibraltar 2200 VFT// 8 channel dcn interleaved vft. (DW)
7776.5 OST33: Oostende Radio 1910 FEC tfc list at h+10. (DW)
OST33: Oostende Radio, Belgium 2012 FEC Telex list in SBRS mode (MC)
7784 USAF AWS Ceiba 2243 RTTY 75/850 met tfc in cryptic form. originator KAWN. (DW)
7786.7 Egyptian Embassy, Rome 2151 ARQ 5LGs and ATU-80 MSGs from "bostan roma" (MC)
7788 Unid: 0709 RTTYI 50/850 ry's figs (incrementing and decrementing)

ends "fin de la prueba"(spanish for "end of the test") and offair. (DW)
7823.7 Egyptian emb. Tunis 1653 ARQ atu-80 msgs (DG)
7832.6 Russian forces 1853 QPSK 1280/400 (DG)
7842 IER20: GUARFI Roma 1215 RTTY 100bd/85, tfc to IER21 in Italian (ANG)
7851.7 Chinese Diplo,??? 2041 4+4 (MC)
7880 DDK3: Hamburg meteo 1529 FAX 120/576 sea swell chrt (BvR)
7898 BGS, Bonn 1910 ARQ-E 72bd/85 idle on beta and RQ (71.99950bd) (MC)
7909.7 Seismological crew, Libya 0445 ARQ til 0530 (ANEE)
7931.7 Egyptian MFA? 1821 ARQ atu-80 msgs (DG)
7946.5 DHJ51: Grengel Meteo, D 1210 RTTY 100db SYNOPs, TAFs (KB)
7968.7 Unid: 0618 ARQ msgs in UNID lang. (HONSHOO TUUSINKM) (SS)
7971.7 DE LIBERATOR 0932 ARQ mil unit.says fm co mblt 4 to cpmc attn g-1. poss philippines off 955 (EW)
7988 Russian Mil, loc?? 2043 81-81 81bd/200 tfc (MC)
8000.7 MFA Cairo 1827 ARQ atu-80 msgs (DG)
Egyptian MFA, Cairo 1901 ARQ ATU-80 MSGs to Rome (fljk) selcal XBVP. (MC)
8005.2 Unid:1204 ARQ-E3/96 idle (RM)
8023.7 Egyptian MFA? 1931 ARQ atu-80 chatter (DG)
Egyptian MFA, Cairo 2015 ARQ ATU-80 MSGs to AF, EU and FE embassies. (MC)
8030.2 Unid: 1646 Link-11 (MC)
8056.7 Egyptian MFA? 1723 ARQ atu-80 chatter (DG)
8063.2 RFFA: MoD Paris 1943 ARQ-M2 200/400 circuit test (DG)
8073.5 Unid: 0722 RS-ARQ 240.6bd 8 tone (MC)
8083 RIJ75: Tashkent MET 1807 FAX 90/576 chart (blurred) w/observations. (DW)
8094 9BC25: IRNA Tehran 2012 RTTY 50/400 nx (DG)
8105 RFFX: MOD Paris, France UTC? ARQ-E 72/972 idle (RT2).
RFFX: MOD PARIS, F 0556 ARQ-E 72/400 idle (SS)
8134 OMZ66: MFA Bratislava 0945 IRA-ARQ 212.87bd 10 bit w/450 messages to unlocated embassy (ANG)
8146.6 IMB55: Rome meteo 1908 FAX 120/576 wx chrt (BvR)
8148 SNN299: MFA Warsaw 0955 POL-ARQ 100/250 diplo tfc (DG)
SNN299: Polish MFA, Warsaw 1823 POL-ARQ 100bd/250 5LGs to Bratislava, Rome, Paris and Vienna (MC)
8151 IGJ44: Augusta Naval, Sicily 1850 RTTY 850/100 Test tape; frequency and shift very variable (JD2) IGJ44: Italian Navy, Augusta 1727 RTTY 100bd/850 Continual "igj44 /igj42 /igj43 /" tape (MC)
8152 HMF86: Pyongyang, N. Korea 1303 RTTY 50/425 KCNA nx in EE. (AB2)
8166 POL emb. Kiev 0645 POL-ARQ 100/170 diplo tfc (DG)
8180.7 Italian Diplo/Mil, loc?? 1643 FSK 1200bps UNID System (MC)
8182.7 Unid: unlocated 1615 PACTOR 200/200 FF chatter (DG) (UN/ICRC Bosnia -LOGS)
8192 9MR: MN Johour Baharu 1845 RTTY 50/850 testing (DG)
8196 Unid: German Diplo?,??? 1638 RS-ARQ 240bd 8 tone (MC)
8331.5 GYA: RN London 1535 FAX 120/576 skedule (BvR)
8331.5 GYA: RN London 1500 FAX 120/576 surface analysis, at 1535 w/schedule. (BvR)
8337.3 DHJ59: GNY Wilhelmshaven 1253 VFT 3x150bd, tfc to var. GNY ships (ANG)
8339 Unid: Royal Navy 0941 RTTY 75/850 ratt bdcst (DG)
8342.6 UWXJ: M/V Zorinsk 1610 RTTY 50/170 wkg Odessa Radio w/crew TG's. (TD2)
8377 GBTT: Queen Elizabeth 2 0201 ARQ msg ck. (AB2) UWAZ: TKH KINGISEPP 0728 ARQ msg in EE to Sweden via GKE. (HOOD) UIIE: TKH VILYAM FOSTER 0305 ARQ tlx to baltic shipping. login 55214 uiie. (WT)
8377.5 C6KT2: Sprinter 0245 ARQ ETA Port Bolivar May 17, selcall 61377. WEZD: Chief Gadao 0148 ARQ tfc. (AB2) WEZM: SS Ewa 0250 ARQ w/ AMVER/FR, final report, for Seattle, Wa, login 10949 WEZM. (RB) WSRH: SS KAUAI 0053 ARQ wkg kfs, rx only. login 11330 wsrh. C6NJ4: CASCADIAN DAWN 0525 ARQ w/amver. WLDW: SS KEYSTONE GEORGIA 0535 ARQ wkg kfs w/ qrg rpt. login 11216 wldw. UNID: BRISBANE STAR 0555 ARQ wkg kfs w/tlx eta sydney. (WT)
8378 9HDA3: M/V LINA 1041 CW msg to MINIBULK Monte Carlo
8379 J8FK6: Biograd 0301 ARQ tfc, selcall 56921. UIGU: Ashkhabad 0227 ARQ bound Amsterdam w/cargo of molasses, selcall 66168. 9HMZ3: Beluga?

1331 ARQ tfc. (AB2) WFKW: M/T OVERSEAS NEW ORLEANS 0035 ARQ w/tlx, arr houston. login 11188 wfkw. SWHI: DION 0200 ARQ w/tlx in , grk? login 16946 swhi. J8FK6: M/V BIOGRAD 0455 ARQ wkg wlo, eta balboa. ELIG7: M/V INDIAN OCEAN 0500 ARQ wkg wlo, w/obs bbxx. DUAP: CALATAGAN 0438 ARQ in opr mode w/wlo. ELNS4: M/V PACIFIC STAR 0147 ARQ w/tlx deprep. login 24354 pstr. ZCUX: M/V REPULSE BAY 0100 ARQ w/tlx login 48696 zcux (WT)

8379.5 JFRO: Kojima 1325 ARQ JASREP to JNA, posn 35.27N/166.04E. (AB2)

8380 UZXU: TK GEROI SEVASTOPOLYA 1515 ARQ safety cert details login 55145 UZXU. (HOOD) LCAL: BEL AZUR 0156 ARQ rx only. login 02754 bela. (WT)

8380.5 ELSG9: Boris Gordeyev 1413 ARQ tfc for Singapore & Blasco, Odessa, selcall 67763, ex-UTEZ. UFEH: Fyodor Petrov 1257 ARQ tfc via 9VG78. YCTE: Anro Gowa 1405 ARQ tfc for Singapore, selcall 22908. (AB2) J8IP9: Antwerp Express 0522 ARQ w/login for msg ck. (RB) UNID: M/V TYPHOON 0100 ARQ tlx to Athens re load/deliver gas and oil. itu mars has 16 typhoons. login 42307 typhoon. (WT)

8381 UYVP: TKH Ivan Korobtsov 1529 ARQ Ukrainian general cargo vsl, w/tlx to General Steamship for ETA SW Pass, login 55002 UYVP.(RB) ELID8: M/V MARIANNA 0045 ARQ w/tlx, berthed Manzanillo. (WT)

8381.5 YLBD: Fridrukh Tsander 0236 ARQ tfc via 9VG78. (AB2) YLBB: MK Vasiliys Struve 0301 ARQ w/tlx to Riga on "00308" (Ch.3 of 8Mhz) for QSL of SVC traffic. YLBR: TK Klements Gotvalds 0541 ARQ w/login for msg ck. YLBO: TK Dizhon Rids 0552 ARQ w/SVC msg for radio traffic sent, login 60640 YLBO. YLBG: TKH Ivans Polzunovs 2254 ARQ Latvian reefer w/crew TG's to Riga.(RB) YLBC: M/V ARISTARHS BELOPOLSKIY 0130 ARQ w/qth 1423n 07320w (WT)

8382 3FUDY: STELLAR FORTUNE 0630 ARQ w/amver/sp. SVKJ: M/V SKYROS 2356 ARQ w/tlx login 16961 svkj (WT)

8382.5 C6JY6: M/V MELBOURNE STAR 0638 ARQ w/amver/fr. arr pt. angeles. KLKZ: OMI COLUMBIA 0125 ARQ long tlx, missed login. ATPN: M/V HARGOBIND 0415 ARQ w/tlx 1250n 10421w. login 23590 hrgd. (WT)

8383 SVCD: Angelic Grace 0207 ARQ stowage rpt. UAGJ: Ostrovskiy 1510 ARQ tfc, selcall 55950. UIBY: Henri Barbusse 1515 ARQ tfc, selcall 55552. UGSP: Ussuriyskaya 1159 ARQ crew TG's. UJZW: Mago 1236 ARQ tlx for Uniorient, Tokyo. USFJ: Topaz 1305 ARQ crew TG's. (AB2) SZPX: M/V Maroudio 0026 ARQ w/tlx in Greek after sending selcall XYFV (SVA, Athens Radio), login 16897 SMARO. SVKJ: M/V Skyros 0028 ARQ w/tlx for info on ships agents at Panama Canal, ship bound there from New Orleans. SZMK: M/V Chios Beauty 0257 ARQ Greek bulk carrier, w/crew info tlx, login 17044 SZMK.(RB)

8383.5 BOPN: Mv Libai 1455 ARQ sc qfmp (norddeich) w/tlx to Shanghai (BvR)

8383.5 9MCF5 M/V Budi Huda 1324 ARQ w/svc tlx adv M/V Toscana C6HV3 is now M/V Budi Huda, 9MCF5 effective 5-10-96, selcall still 61698 and login abbrev is still TOSCA. (RB) LCAL: BEL AZUR 0135 ARQ rx only. login 02754 bela. (WT)

8384 9HNG3: Konavle 1245 ARQ vsl in Baltimore for cargo of coal, selcall 13647. (AB2) 7TQC: M/T STAH 1705 CW eta for Arzew to 7TF. (HOOD)

8384.5 DVRD: GENERAL TIRONA 0210 ARQ w/tlx login 26420 dvrd. UNID: M/V KAVO MALEAS 0220 ARQ w/tlx. login 63339 male. (WT) (9HYM3 -LOGS)

8385.5 TCKO: M/V Omer Kaptanoglu 0302 ARQ Turkish vsl w/ tlx via Berne Radio reporting passing Straight of Gibraltar, login 65714 TCKO. (RB)

8386 C6FY: M/V Smit Tokyo 0549 ARQ w/BBXX wx report.(RB) 9VOP: NOL RUBY 0605 ARQ w/obs, bbxx. (WT) (yes, this is the ex-Neptune Ruby -LOGS) 4XGU: ZIM KOREA 2335 ARQ w/amver/pr 3841n 13332w. also bbxx. (WT) UNID: RUBIN GRACE 0015 ARQ w/tlx, login 42246 rbgc. (3FAX5 -LOGS) 3FFA5: FLORAL LAKE 0500 ARQ wkg nmc requesting qsl for amver tfc. KPKL: SS SEARIVER BENICIA 1723 ARQ w/obs, bbxx login 11307 kpkl. 3FEG6: NARWAL 0110 ARQ w/amver/pr ex nara/lxnf. 4512n 13955w eta keelung 12th. (WT)

8386.5 C6DZ3: Samco Europe 1342 ARQ tfc for Samco, London, selcall 61374. ELIK9: East Gate 1304 ARQ tfc. OURP2: Maersk Lifter 1344 ARQ tfc, selcall 77311. P3MH3: Dragon Eaya 1350 ARQ tfc, ex-Weser Star?, uses "WSTAR" @login. VTCN: Lok Pratima 1337 ARQ tlx to ShipIndia req new EO. VTVD: Raigad 1417 ARQ tfc. (AB2)

8387 ATZN: Lok Kirti 0240 ARQ tlx to Victoria pilot station for ETA Triple Island, selcall 23728. BROX: Mei Hua Lins 1900 ARQ tfc via KPH. 3FBF3: Hanjin Tacoma 2344 ARQ vsl in the Tofino (BC) traffic zone bound for Port Angeles. (AB2) WSNB: SS KENAI 2048 ARQ wkg kph??

w/dirtlx?? a matson ship not wkg globe?? DUCT: EURASIAN CHARM 0600 ARQ rx only. login 76768 duct. DGCR: M/V CAMPANIA 0020 ARQ w/amver/pr 3237n 12929w. (ex arbitrator?) login 89112 dgcr. ATZN: M/V LOK KIRTI 0422 ARQ w/tlx login 23728 atzn. UNID: B. KANTAN/2 (BUNGA KANTAN?) 0234 ARQ w/tlx re crew changes, eta Vancouver. (Yes, 9MYK -LOGS) SUCD: M/V ALWADI AL GADEED 2342 ARQ w/tlx login 78001 sucd. ELHW3: M/V WESTERN TRADE 0052 ARQ w/tlx supplies. login 26637 wtrade. (WT)

8387.5 YCLA: Polka 1425 ARQ tfc in Indo? 3ENZ3: Eleftheria K. 1412 ARQ tlx re needed repairs. 3FLW5: Oriental Dragon 1400 ARQ ETA Hong Kong pilot station, last port Hai Phong, vsl also used c/s V2JX. WJBG: UNID 0650 ARQ wkg kbq?? w/personal msgs. (WT) (Overseas Ohio -LOGS)

8388 SYWP: M/V WINNER 0318 ARQ w/tlx. login 29488 winner. TCSX: M/V MARINER PACER 0428 ARQ opr mode, chatting in ?? login 29054 tcsx (WT)

8388.5 VVKF: Spic Emerald 1505 ARQ inventory of vsls radio equipment, ex-Spic Emer-Aid?, selcall 23606. (AB2) ATSA: Mv Atanur 1012 ARQ tlx to Istanbul co/ch PCH. UNWR: Mv Grigoriy Nesterenko 1103 ARQ tlx tfc (BvR) PJCH: M/S NIEUW AMSTERDAM 0125 ARQ w/posn, near Cabo San Lucas. login 61027 pjch. (WT)

8389.5 DUHN: Glorious Success 1452 ARQ AMVER/PR, 44.35N/124.02W, inbound Newport, OR. 3EBV6: Leodas 1345 ARQ ETA Cristobal. 9HWA4: Grigoroussa 1351 ARQ tlx to Athens, QSY 8392 @1401, selcall 72050 GRIG. (AB2) H9UM: ARCADIA 0215 ARQ w/tlx's login 26524 arcadi. LAJJ4: SWAN LAGOON 0503 ARQ w/tlx login 29404 swlag. 3ESA2: M/T ADELIA 0328 ARQ w/tlx eta kingston. login 26479 adelia. LXDN: M/V CRYSTAL PIONEER 0543 ARQ w/amver/pr login 29409 lxdn (WT)

8390 AQPM: Delta Peace 0245 ARQ Lube oil analysis report, selcall 29519. UKYV: Boris Livanov 1333 ARQ tfc. 9HTB3: Cape Arnhem 1352 ARQ tlx for renewal certificate of Malta registry, selcall 13694. (AB2) DVRD: M/V General Tirona 0323 ARQ w/tlx re vsl is in port, West Minister, BC, CAN, login 26420 DVRD. (RB) 6ZXJ: M/V BRAZILIAN SKY 0208 ARQ w/maint rpt login 26423 brasky. DVRD: M/V GEN. TIRONA 0328 ARQ w/tlx to jebsons, london. P3LZ4: M/V AMAMI 0100 ARQ w/tlx login 56373 amami. XYEL: M/V SPRING BEE 0030 ARQ w/tlx, 29n 116w. login 26291 xyel. (WT)

8390.5 VORX: M/T Thalassa Desgagnes 0008 ARQ w/tlx in FF. (RB) C6ME5: M/T ARGO ATHENA 0224 ARQ w/amver/fr login 26767 athe. (WT)

8391 KQ2XVJ2: "TESTSHIP" 1638 ARQ wkg kej w/ test msg "beta software". login 10942 kq2xvj2. WSLH: SS MAUI 1643 ARQ wkg kej, eta hono 5/8. KNIJ: SS MANULANI 0324 ARQ w/qrg rpt id 01f9. login 10918 knij. (WT)

8391.5 ULFU: Fedor Varaksin 0211 ARQ crew TG's. (AB2) UFSS: TKH Artem 0240 ARQ w/MSKTLG crew TG's via UAT, login 55951 UFSS. YLBP: TK Khose Marti 0732 ARQ Latvian tanker w/admin tfc to LSC tanker dept from master KM Zalitis. UPCU: TKH Iogann Makhmastal 0810 ARQ w/agent info tlx to Arkhangelsk.(RB)

8392 SWHI: DION 0145 ARQ w/tlx login 16946 swhi. (WT)

8392.5 UVQN: TK Kapitan Putilin 0125 ARQ w/NVRTLG crew TG's (NVR/MTF). URBP: TK Adygeya 0228 ARQ 51,295 DWT Ukrainian tanker, w/crew TG's to Novorossiysk Radio (NVR/MMF). UAJL: TKH Novokubansk 0314 ARQ w/NVRDISP DISP-1 reports from master, KM Pirkhleskiy. UNNH: TKH Bikhin 2242 ARQ w/DISP-1 report (in port) to Novorossiysk Radio from master KM Vorobeve. (RB) UVQN: TH KAPITAN PUTILIN 0320 ARQ wkg ufn. login 55107 uvqn. (WT)

8393 BPDA: unid 1505 ARQ tfc, selcall 20206. BPGO: Yu Jin Xiang 1448 ARQ tfc. BPHC: Lin Hai 3 1428 ARQ tfc. BPNG: Hua Zhi 1419 ARQ tfc. BUZM: Chang Wang 1435 ARQ posn 31.30N/129.01E, selcall 22002. (AB2)

8394 3EKM5: Capitan Spyros 1307 ARQ vsl's skipper concerned re shallow anchorage. (AB2) P3EJ4: M/T OHIO 0520 ARQ wkg wlo w/ tlx, arr aquintero. login 56125 ohio. (WT)

8395 BRNG: Gao Bao 1423 ARQ very urgent tfc for Hai Phong. BRVJ: Tao Yuan 1313 ARQ tfc to Osaka for sanitary certificate. BRVS: Tian Bao 1400 ARQ tfc. (AB2)

8396 HODX: Frio Caribic 0554 ARQ w/noon(!) posn report, 0532N/16600W, ETA. (RB)

8397 UGSM: Stimul 1416 ARQ crew TG's. (AB2)

8397.5 DQFX: Choyang-Elite 1630 FEC w/relay of German DSR Rostok sports & nx, ex-DSR Asia?(RB)

8398.5 C4XH: M/V DERBY NORTH 0717 ARQ eta Port Said. login 29323 DNORTH. (HOOD) C6KI6: M/V Celtic Warrior 0431 ARQ w/tlx re anchored Piraeus Roads awaiting berthing prospects, login 26986 CWAR. C6KF3: M/V

WINTER STAR 0602 ARQ w/obs bbxx login 26128 winsta. (WT)
8399 UPQY: Sodruzhestvo 1601 RTTY 50/170 crew TG's. (AB2)
8399.5 UTYZ: Kremenchug 0222 RTTY 50/170 RYRY/DE & into crew TG's. (AB2)
URTO: TKH BOLSHEVIK MIKHAIL TOMAS 1830 RTTY 50/170 crew TGs to UUI. (HOOD) ENWC: TKH Kapitan Mezentsev 0258 RTTY 50/170 14,345 DWT Ro/Ro cargo vsl w/crew TG's to Odessa Radio (ODS/UMF). LYEA: RTMS Limb 2146 RTTY in 50/170 admin TG's from master KMD Maeichov (KLD/UTF). (RB)
8400 URGA: TKH TUSHINO 1832 RTTY 50/170 crew TGs to USU. (HOOD)
8401.5 UDYN: RTMKS Maksim Starostin 0449 RTTY in 50/170 RYRY/DE to UIW, & w/admin TG's to BWC Sevryba using hull#/ID MA-1814 (MRM/KRH).
UBRJ: TKH Ulbanskiy Zaliv 2359 RTTY in 50/170 RYRY/DE to UIW, & w/admin tfc to Vladivostok Vostmaransflot (VTF), fol by crew TG's (KLD/VTF). UAMD: RTM Zund 2359 RTTY in 50/170 crew TG's to K-grad, is Ex-EWVV, note change from NPS to RTM(A?) prefix. (RB)
8402 EOXT: SRTM Goryn 0217 RTTY in 50/170 RYRY/DE & into crew TG's (ILCH/MRH), also sends same for UNMK, RPB Vostok; UUUH, SRTM Lunga; and UUSZ, SRTM Kodyama.(RB)
8402.5 EMWG: Barit 1453 ARQ crew TG's. (AB2) UYHW: TKH ILYA KULIK 1825 RTTY 50/170 admin from Km Ponomarenko to UUI. (HOOD) EKNB: TR Izumrudnyj Bereg 0311 RTTY in 50/170 w/crew TG's. LYEA: RTMS Limb 2139 RTTY in 50/170 admin TG's from master KMD Maeichov (KLD/UTF). UALV: RTMS Kulikova Pole 2151 RTTY in 50/170 admin TG's to Kaliningrad Poisk RRTZ Polozovoy from master KMD Smirnov. (RB)
8403 UFUX: BATM PULKOVSKIJ MERIDIAN 0510 RTTY 50/170 w/tg's. (WT)
8403.5 UNMK: RPB Vostok 0219 RTTY 50/170 w/crew TG's to Ilichevsk (Ilch) Radio.(RB)
8407 UHPO: TKH PAVLIK LARISHKIN 0720 RTTY 50/170 psn rpt to Murmansk via UAT. (HOOD)
8412 UEUX: TK KEKUR 0758 RTTY 50/170 admin from Km Morgun to Murmansk (vessel is a supply tanker for Murmansk fishing fleet).
8413 URFV: TKH Novolvovsk 0130 ARQ w/admin TG St Petersburg. UGOV: TKH Novomsrovsk 2234 ARQ w/DISP-1 reports to St Petersburg radio from master KM Vasilenko. (RB)
8417.5 KFS: SAN FRANCISCO R, CA 0229 ARQ tfc lst (SS)
8432 YLQ: Riga Radio 1424 ARQ crew TGs to ELRI6: TK ZANIS GRIVA. Vsl is ex YLCV.
8433 XSG: Shanghai Radio 1426 ARQ wkg unid vsl. (TD2)
8434.5 SAB: Goeteborg 0335 FEC globe radio msg traffic on hand (EW)
8435 XSQ: Guangzhou Radio (2017) 1440 ARQ wkg c/s BRYP. (TD2)
8453 HWN: FN Paris 1300 RTTY 75/850 marker & wkg French ship indefinate callsign "fn". signal fading during monitor period. (DW) HWN: FN PARIS, F 0243 RTTY 75/170 rys - de hwn (SS)
8463 CKN: 0247 RTTY 75/850 naws de ckn zkr f1 2386 4167 6242 8318 12380 16561 22200 ar (SS)
8467.8 JJC: kydo tokyo, japan 1137 FAX 60/576 quality poor qsb 1137. (RT2)
8478.5 FUF: Fort de France RTTY 75/850 rys/sgs/0-9 (RT2)
FUF French Navy, Fort de France, Martinique 0441 RTTY 75/850 RY, 1-9 count x 2 on ea line and ID.(RB)
8530 SVA4: Athens radio 0900 FAX 120/576 wx chrt, very poor (BvR)
8556 SAB44: Goeteborg Radio 1702 ARQ nx/tlx msgs (DG)
8565 Unid: 0850 RTTY 50/850 testing (DG)
8599.2 Unid 1100 RTTY 75/170. w/enc (RM)
8625 FUM: 1055 RTTY 75/850 FN Papeete Tahiti ry (RM)
8626 GYU: RN Gibraltar 1810 VFT/RTTY 50/170 testing (DG)
8650 SPB43: Szczecin Radio 2222 ARQ tfc list (DG)
8650 SPB: Szczecin Radio 0153 ARQ free idles and CW channel marker(DW2)
8677.5 UGC: Saint Petersburg Radio 0147 ARQ sitor free & CW channel marker. (DW2)
8682 NMC: CAMSPAC Point Reyes, Ca, US 0347 FAX 120/576 w/surface analysis chart, fair, at 0412 w/500MB 12 hr forecast chart, now v.good.(RB)
8824 Unid: 1915 FSK 250bd/140 UNID System, ACF=75 PRF=300ms (MC)
8921.8 Egyptian Emb? 0029 ARQ w/ATU-80 tfc, selcalls.(RB)
9045 5YE: Nairobi Meteo, KEN 1935 RTTY 100bd SYNOPs (until May 96 on 9041) (KB)
9049 5YE: Nairobi Meteo, KEN 1935 FAX 120/576 (until May 96 on 9045) (KB)
9110 NMF: USCG Boston Mass 1600 FAX 120/576. iceberg chart (RM)
9111.7 Egyptian Embassy, Rome 2006 ARQ ATU-80 MSGs to MFA Cairo (MC)
9126.7 Elefante: ITALMIL Roma (?) 1256 BPSK 1200 //9161.7 (ANG)

9130.3 MGJ: 1928 RTTY 75/850 u/i British mil. available channels list (RM)
9150 RCH73: Tashkent Meteo 1833 FAX 60/576 wx fax (DG)
RCH73: Tashkent MET 1810 FAX 90/576 chart (blurred) w/obs. (DW)
9154 D4B: Amilcar Air 0710 RTTY 50/700 testing (DG)
9155 UNID RUS-NY 0855 RTTY 50bd/200 w/KRIPTOGRAMMA after ZZZZZZ (ANG)
9161.7 Elefante: ITALMIL Roma (?) 1325 BPSK 1200 tfc. to 'Trotta' (ANG)
9200 FUX: FN Le Port,REU UTC? RTTY 75/850 by 1996 uteguide encrypted trf. (RT2)
9236.7 Egyptian MFA, Cairo 2029 ARQ 100bd/170 ATU-80 MSGs to Washington & London (MC)
9262.5 MTI: Plymouth Naval, UK 1230 RTTY 850/75 clg MTT; 7"-bit Baudot calling, 7-bit crypto tfc (JD2)
9277.9 DMK: German MFA, Bonn 0639 RS-ARQ 228.7bd/170 tfc (MC)
9317 V5G***: Romanian MFA, Bucharest 1818 ROU-FEC 164.5bd/400 (Bitmask=24) MSGs in Romanian to "moscva" (MC)
9318 NRK: Usn Keflavik 1100 FAX 120/576 sat pic (BvR)
9323 Unid: 1952 ARQ-E 72/400 idling (DG) (RFFXI Bangui? -LOGS)
9329.5 XVN26: Hanoi, Vietnam 1458 RTTY 50/425 VNA nx in EE. (AB2)
9331.7 Egyptian emb. Algiers 2151 ARQ atu-80 msgs (DG)
9340 RCH72: Tashkent MET 1812 FAX 90/576 end of chart (not running parallel to 8083/9150). carrier off. (DW)
9395 HMF84: KCNA Pyongyang 1830 RTTY 50/250 nx (DG)
9447.4 MOD Germany IFOR 0654 ARQ-E 72 idle 85hz shift (EW)
10011.3 Unid: Algerian Customs?,??? 2022 Coquelet-8 26.7bd Opchat in FF stations "hadika, mlk, dgd, oua" (MC)
10117 BAF4: Beijing MET 2138 FAX 120/576 polar charts. (DW)
10151.5 AAH: Army MARS, Ft Lewis,WA 0340 RTTY 75/170 w/Armed Forces Day 1996 message from SecDef, //6988.(RB)
10151.6 AAA0USA: 1404 Packet msgs to AAT9TCN (RM)
10174.5 Guardia Civil 1030 ARQ jecor huesca - jezo barcelona (jecor=jefe coronel, jezo=jefe zona) personnel transfer messages til 1045 (ANEE)
10177.7 RFFA: MOD Paris,France ARQ-E3 192/425 idle (rt2)
10198.5 MKK: 1655 VFT 50/170 RAF London foxes ryi's 10c (RM)
10206.7 MFA Cairo 1749 ARQ tfc in offline encryption signed amb. dr mahmoud farghal. (relay?). constant mark between bursts, breaks in tfc as if poor qso, further tfc in atu80. (DW)
10250.0 ECA: Madrid meteo 1748 FAX 120/576 wx chrt (BvR)
10303.5 Unid: 1748 TT2300b 100bd idle (MC)
10306 OMZ66: MFA Bratislava 1353 IRA-ARQ 213bd/485 10 bit +292.8bd/485 w/chat+testing (ANG)
10340.5 Unid 2030 RTTY 110/170. w/enc (RM)
10352.2 MOSSAD Tel Aviv 1620 UNID FEC system 75bd/100 ACF=28/224//12376.2 & 14750.2 (ANG)
10376 Unid 1636 RTTY 110/170. w/enc (RM)
10380.6 Unid: UTC? RTTY 100/572 unid (rt2).
10415 SNN299: MFA Warsaw 1550 RTTY 75/250 diplo tfc (DG)
10428 Unid: SOUD station 0843 RTTY 75/500 5FG'S (DG) (also Bulgarian diplo here -LOGS) Unid: RTTY 75/850 cyptro?? (RT2).
10435.3 SA Vitoria 1539 ARQ 100/170 SS chtr/msgs (DG) Unid: 2026 ARQ 100/300 Chatter in Spanish mentioning "sido0" (MC)
10493.7 RFTJF: Port Bouet,CTI ARQ-E3 48/400 idle (RT2).
10494 Unid 2253 ARQ-E3 48/400 idle (RM)
10512.7 RFLI: FF Fort de France,MRT ARQ-E3 192/375 idle (RT2)
10521.7 RFLI: FF Fort de France 0105 ARQ-E3 192/400 MRT cdv on LIJ ct (RM)
RFLI: FF FORT DE FRANCE, MRT 2101 ARQ-E3 192/425 idle (SS)
10524 HMF45: KCNA Pyongyang, N Kre UTC? RTTY 50 nx in ff good sig. (RT2).
10535 RDL: Russian Navy, Moscow 1154 36-50 50bd/250 tfc later 5FGs CW keyed w/ID "rdl rdl rdl" (MC)
10551 GFL23: Bracknell Meteo 1227 RTTY 75/400 meteo rpts (DG)
10600 XVN27: Hanoi, Vietnam 1509 RTTY 50/425 VNA nx in EE. (AB2)
10650 DKR: SOUD station 1615 RTTY 75/500 5FG'S (DG)
10653 Russian Diplo, loc?? 1515 CROWD-36 tfc (MC)
10701.9 Unid: German Mil?,??? 2047 VFT: 3ch of 192bd/170/I FEC-100, crypto tfc ends "%%%%%" (MC)
10718.2 Russian Mil, loc?? 1547 MS5 12 tone vocoder (3300Hz pilot) (MC)
10723.8 DHJ59: GNY Wilhelmshaven 1245 VFT 3x150bd, tfc to var. GNY ships (ANG)
10747 RGA: DoSC Moscow, link <00030> 1455 RTTY 75bd/500 5LGs to 'BFR' (ANG)

10765 RDFFCS: Danish military 2048 RTTY 75/850 (DG)
10796.1 Russian Mil, loc?? 2050 81-81 81bd/200 tfc (MC)
10798.3 Unid: 2042 ARQ-E3 192/400 idling (DG) RFLI: FF FT de France 0649 ARQ-E3 96/400 8crc. betas. controle de voie "rfli de rfli". cct (irt) and off line encrypted tfc to rfligzf. (DW) RFLI: FF Fort de France, Mrt ARQ-E3 96/447 idle good sig. (RT2).
10821.7 Egyptian diplo 1803 ARQ 5fg's. (BvR) Egyptian Embassy, London 1812 ARQ 100bd/140 ATU-80 MSGs "jg dg---mg" to MFA Cairo (MC)
10865 NAM: Usn Norfolk 1824 FAX 120/576 sat pic (BvR) (moved some time ago to NAA, Cutler, Me -LOGS)
10912 MFA Ankara? 0530 FEC-A 100 (ANEE)
10917.7 RFTJ: FF Darar 1544 ARQ-E3 48 5 fgs [tjf] (BvR)
10945 CFH: CF Halifax,NS Canada RTTY 75/931 naws/wx. (rt2).
10952 MFA Berne 1030 ARQ new fre and sked time til 1630 (ANEE) HBD74: Sui emb. Kinshasa 1049 ARQ "no message + ? hbd 74" then s/off. (BvR)
10961 HBD20: Mfa Berne 1247 ARQ 5 fgs (BvR) HBD20: MFA Berne 1020 ARQ 5FG'S (DG)
10962.3 RFFVAY: FF Sarajevo 1556 ARQ-M2 200/400 idling (DG)
10963 HBD90: Sui emb 1044 ARQ irs mode, "no mgs + ? hbd 90" then s/off. (BvR) HBD20: MFA Berne 1842 ARQ 5FG'S (DG)
10966 Unid: 1518 RS-ARQ 228.7bd/170 tfc (MC)
10967 HBD20: MFA Berne 1027 ARQ 5FG'S (DG)
10971 HBD44: 1006 ARQ Unid sui emb irs mode and "no message+?" (BvR)
10973 HBD20: Mfa Berne 1004 ARQ 5 fgs (BvR)
10991.7 RFFVAY: FF Sarajevo 1825 ARQ-M2 200/400 idling (DG)
10998.8 Unid: 2333 RTTY 75/850 u/i w/airline posn reports (RM) (this interesting station also logged sending KAWN wx data -LOGS)
11033 Unid: 1153 RTTY 75 too weak. some EE words but very poor signal. (EW)
11034.7 Egyptian MFA, Cairo 1612 ARQ ATU-80 MSGs to Abu Dhabi, Doha, Beirut, Tunis... (MC)
11039 DDH9: Hamburg meteo 1715 RTTY 50/450 meteo rpts (DG) DDH9: Hamburg Meteo, Germany 1002 RTTY 50bd/400 "ryryry... cq cq cq de ddh47 ddh8 ddh9" (MC) DDH9: Pinneberg Meteo 1845 RTTY 50/400 coded wx (RM) DDH9: HAMBURG METEO, D 1904 RTTY 50/425 meteo (SS)
11043.7 RFTJD: Liberville ARQ-E3 192/470 nmr /403/comair det ##### & 5lg. (RT2)
11050 H6L***: French Embassy, Algiers 1632 FEC-100 192bd/400 5LGs to RFGW (French MFA Paris) (MC)
11074 Russian Diplo, loc?? 1847 CROWD-36, tfc (MC)
11080 Damascus 1854 RTTY 50/400 SANA nx/EE to 1900 (RM) Sana 1000 RTTY 50 EE nx. (BvR)
11106.5 MFA Brussels 0722 RTTY 100/170 11106.530. chan3 in 6028 vft. offline encrypted tfc. later calls then tfc in Dutch & offline encryption. (DW)
11106.8 Belgian Emb Tel Aviv 0736 RTTY 100/170 11106.870. chan4 in 6028 vft. tfc in offline encrypt (5 ltr grps) to brussels. (DW)
11107.5 MOI Spain NET 0928 ARQ simplex circuit, ends "ok cmf cmf grs hl ps fin". all characteristics of SS moi operations. (DW)
11110.5 RFLI: FF Fort de France 1002 ARQ-E3 192 Idle (BvR)
11118 AFS: USAF AMS Ohama,NEB USA RTTY 75/927 coded wx. (RT2).
11133 Unid: 0530 ARQ-E 96 idle til 1030 (ANEE)
11148.2 Russian Mil, loc?? 1712 MS5 12 tone vocoder (3300Hz pilot) (MC)
11155 GYU: RN Gibraltar,0900,PICCOLO w/svce msgs (ML2)
11156 Russian Mil, loc?? 1117 81-81 81bd/250 idle (MC)
11170.2 DOR: MFA Sofia 1350 IRA-ARQ 600bd/500, msgs in 'UUENCODE-style' format (ANG)
11172.3 DOR: MFA Sofia 1025 IRA-ARQ 600bd/500, with very long FGs (ANG)
11201.7 Turkish Police Bosnia Link 1018 ARQ traffic in turkish. At 1324 Selcals vvsv, tfc in turkish, ends with "clear++". At 1459 tfc in turkish. (DW)
11401.6 UNHCR, Nairobi 1805 PacTOR-U 200bd/200 NX abt various African countries to Geneva (MC)
11408 OMZ66: MFA Bratislava 1342 IRA-ARQ 213bd/485 10 bit w/chat+testing. (ANG)
11410 OMZ66: MFA Bratislava 1340 IRA-ARQ 213bd/485 10 bit w/chat+testing. (ANG)
11413.5 GXQ: Royal Navy, Whitehall 1716 VFT: 5ch of 50/170 Baudot, "iryiryiry de gxq" (MC)

11416.5 Romanian Embassy, loc?? 0913 ROU-FEC 218.3bd/400 crypto (MC)
11416.7 Egyptian MFA, Cairo 1850 ARQ 100bd/170 ATU-80 MSGs to various embassies (MC)
11421.7 FJY5: TAAF Alfred Faure CRO,0920,ARQ-E3 96/400 w/msg to FJY2. (ML2)
11422.2 Unid: Romanian Embassy, Beirut 1618 ROU-FEC 213.8bd/400 MSGs in Romanian to MFA Bucharest (MC)
11423.5 SOL242B: PAP NX Warsaw 1536 FEC NX (DG)
11430 HMF55: KCNA Pyongyang 2201 RTTY 50/250 nx (DG) HMF55: 1548 RTTY 50/250 KCNA Jungsan nx/EE (RM)
11438.7 Unid: 0922 ARQ 100bd/170 Opchat in SS (like 10435.3kHz) (MC)
11468 Unid 1554 RTTY 50/250 w/enc (RM) MFA Roma 0947 ARQ-E 96 5 fgs to Eur emb. (BvR)
11471 SNN299: MFA Warsaw 1001 POL-ARQ 100/250 diplo tfc (DG) SNN299: MFA Warsaw, Poland 1310 FSK Morse Test tape - VVVs and c/s (JD2) SNN299: MFA Warsaw, POL 1429 POL-ARQ 100/232 Nx items in EE. (PB)
11476 HMF52: KCNA NX Pyongyang 1812 RTTY 50/250 NX (DG)
11485 AOK: Usn Rota 1500 FAX 120/576 wx chrt (BvR)
11518 RFFTA: Paris(?) 1320 ARQ-M2 200/374. tfc to RFFVAY Sarajevo 1st msg mentions WARLOCK 01 arrived LQMO 1229 departed 1307 for LDSP. ? LQMO/Mostar LDSP/Split ?2nd msg looks like a relay for the Brits. Starts with RFFTA and RFFVAY but text (5lg) is from RBPMB to RXDBON. (PT)
11522.8 Unid 1556 RTTY 50/850. w/enc (RM)
11540.1 Unid: 1715 RS-ARQ 228.7bd/170 RYs (MC)
12009 Unid 1622 RTTY 75/210. w/enc (RM)
12070 1910 ALE pulses within passband of receiver. (JH)
12086.5 RFTJ: FF Dakar 1734 ARQ-E3 192/400 circuit test (DG)
12120.3 Unid 1621 RTTY 75/850. w/enc (RM)
12124 MFA Oslo 0815 TWINPLEX 100 (ANEE)
12124.7 POLISH MFA 1635 POL-ARQ 100/170 diplo tfc (DG)
12125 SNN299: Polish MFA, Warsaw 1621 POL-ARQ 100bd/250 QTC list for Beirut. (MC)
12134.3 DOR***: Bulgarian MFA, Sofia 0909 RTTY 150bd/500 NX in Bulgarian (MC)
12140 HWN: FN Paris F UTC? ARQ-E3 192/923 rys sgs 0-9 de hwn. (RT2)
12171 DoSC Moscow 1257 link <70004> MFSK 40+10bd, 5 LGs to unloc sta. (ANG) [Crowd-36 mode? -LOGS]
12184.3 Unid 1603 RTTY 50/850. w/enc (RM)
12188 Unid: 1052 ARQ-E 96 coded mgs s/off with ovrovrovrovrovr into usb It. diplo? (BvR)
12193 Unid: SOUD station 1411 RTTY 75/500 5FG'S (DG) (link 00142 to KUL -LOGS)
12200.5 Unid: 1655 Piccolo, idle (MC)
12205.3 NBA: USN Balboa 1615 RTTY 75/850 w/enc (RM)
12208 OMZ66: MFA Bratislava 1343 IRA-ARQ 213bd/448 10 bit w/chat+testing. (ANG)
12209 DFZG: MFA Belgrade 0720 RTTY 75bd + FEC-A-144, tfc to 'JNXC' (ANG)
12212.5 YZI234: Tanjug Belgrade 1600 RTTY 50/425 nx/EE (RM)
12228.5 Xinhua 1628 RTTY 75/400 nx/EE (RM)
12322.5 GYU: Royal Navy, Gibraltar 1137 VFT: 2ch of Piccolo-6, eng ch. "de gyu pse phone us kkkk" (MC)
12322.9 GYU: Royal Navy, Gibraltar 1137 VFT: 2ch of Piccolo-6, traffic ch idle (MC)
12376.2 MOSSAD Tel Aviv 1620 UNID FEC system 75bd/100 ACF=28/224//10352.5 & 14750.2 (ANG)
12376.5 MOSSAD Tel Aviv 1623 UNID FEC system 150bd/100 ACF=28/224//10352.5 & 14750.5 (ANG)
12381.8 Mv Voyager 1624 ARQ company mgs, company net? (BvR)
12457.6 National Guard, ARS 1536 ARS-GUARD 125bd/170 (MC)
12462 UGSP: TR USSURIYSKAYA TAYGA 0538 RTTY 50/170 wkg ufz w/tg's. (WT)
12478 WSLH: SS MAUI 2310 ARQ w/qrg rpt, id 020b. WBN2073: M/V RIG ENGINEER 0007 ARQ daily status rpt. 2541n 11358w, 2405 to go. WRJP: M/V R.J. PFEIFFER 0038 ARQ w/e-mail login 12171 wrjp. UNID: CHIOS BEAUTY 0110 ARQ w/tlx. (SZMK -LOG) WEZM: SS EWA 0448 ARQ w/e-mail. dep victoria p/s. login 10949 wezm. WSRH: SS KAUAI 2323 ARQ w/tlx w/ diesel oil req. (WT)
12479 KHRC: SS MATSONIA 0557 ARQ w/tlx login 11008 khrc. P3LT5: M/V VELOS 0054 ARQ w/tlx to inchcape tokyo. login 00598 p3lt5. UCBU: M/T IVER GEMINI 0138 ARQ w/amver tfc. login 55968 gmni. (WT)

12479.5 9HTG3: M/V AIRE F. 0625 ARQ w/tlx login 13696 9htg3. (WT)
12480.5 9HWA4 M/V Grigoroussa 1510 ARQ w/unberthing report for Mississippi River w/28216.06 MT cargo, proceeding Veracruz, login 72050 GRIG. UKVD: TKH Novokubyshevsk 2018 ARQ w/login for msg ck, login 55441 UKVD after sending selcall KYVV (UGC, St Petersburg Radio).(RB) URAE: M/V OLGA ULYANOVA 1628 ARQ wkg ugc, st. pete, rus. login 55212 urae. C6LH4: M/V CHIQUITA BREMAN 2348 ARQ w/bbxx login 29125 chbr. H9UM: ARCADIA 0045 ARQ w/tlx, eta jackson point, eta kingston. UNID: BULK TRADER 0148 ARQ w/eta st. thomas. login 29128 bulktr. (WT)
12481 UTWY: TKH SVANETIYA 1640 ARQ crew TGs to UUI (vsl is ex UOIJ). (HOOD) UWCC: TKH Sergey Lazo 1857 ARQ Ukrainian general cargo vsl, w/admin telex to Odessa from master KM Podlesovskiy. N/A: TKH Ditrio 2235 ARQ w/crew TG's to Odessa Radio. (RB)
12482 SWHI: M/T Dion 1658 ARQ w/noon report tlx.(RB) WRYJ: M/V MAERSK CONSTELLATION 0025 ARQ w/tlx. (WT)
12482.5 PESF: TR Holland Clipper 1946 ARQ w/tlx for ETA Port of Daytona, Port Canaveral, login 81755 PESF. C6LM4: TR Prince of Tides 2040 ARQ w/posn tlx, 290 miles N. of Puerto Rico, login 63166 TIDE.(RB)
12483 UTRD: Akhtyubinsk 1350 ARQ stowage rpt, selcall 55801. (AB2) ATPN: M/V HARGOBIND 2330 ARQ wkg kph. eta Cristobal, bound Kwangyang. C6HV3: M/V TOSCANA 0028 ARQ w/tlx, login 61698 tosca. OHUO3: UNID 0117 ARQ qru/qru login ????? ohuo3. 9MBL7: BUNGA SAGA DUA 2350 ARQ w/posn, 5104n 14833w. ELRR2: LINDA OLDENDORFF 0620 ARQ w/obs bbxx login 24422 elrr. (WT)
12484 ELIX2: Sea Wind 1419 ARQ ETA Magellan Straight. (AB2) SHIP "AGULHAS" 1901 ARQ tfc to hamburg via norddeich/dan. (DW) (3ELE9 -LOGS) PPOB: M/V Frotamanaus 0037 ARQ w/tlx to Frota Rio re arrival Miami, ETA Macapa pilot. (RB) PPOB: M/V FROTAMANAUS 0038 ARQ w/tlx, eta Macapa pilot 3 jun. (WT)
12486.5 3FDQ3: LA BONITA 2350 ARQ w/amver/pr 0331n 10833w dest Yokohama. (WT)
12487 UDSX: Vera Maryetskaya 1401 ARQ tfc via KPH. (AB2) UIIE: TKH Vilyam (William) Foster 1617 RTTY w/EE tlxs for ETA Matanzas pilot/draft info. (RB) WSRH: SS KAUAI 0233 ARQ w/e-mail login 11330 wsrh. C6HI6: M/V CLIPPER UNITY (EX-IRIS) 0115 ARQ w/msg to mrcc falmouth "vsl is safe, inmarsat distress was error". H9HK: M/V FRIO GALICIA 2340 ARQ w/tlx 2413n 05725w, eta 04061400. login 42435 friga. SVKJ: M/V SKYROS 2352 ARQ w/tlx eta panama 13th. login 16961 svkj. (WT)
12487.5 OUUF2: M/V KNUD LAURITZEN 2230 ARQ w/amver, enrt Tokyo. ELKV3: M/V PACIFIC RUNNER 0005 ARQ wkg kph w/ tlx, noon rpt. (WT)
12490.5 9VHL: Medea 0037 ARQ Singapore- flagged car carrier, w/AMVER/SP, login 26199 MEDEA. (RB) XYEL: M/V SPRING BEE 0450 ARQ w/ urgent tlx re inop reefer. login 26291 xyel. 9HQT2: SEARIDER 0230 ARQ w/tlx to athens. login 63332 ride. (WT)
12492.5 SHIP UNID/CUFW 2115 ARQ tfc via lisbon/cul (DW) (M/V Praia de Santa Cruz -LOGS)
12493.5 3ENP4: FRIO OCEANIC 0002 ARQ tlx, eta Balboa. P3AB3: M/V ATLANTIS TWO 0018 ARQ tlx, eta burnside 3rd. login 01718 atwo. (WT)
12494.5 SQAT: M/V KUZNICA 2222 ARQ wkg spa in opr mode. login 43055 sqat. SQNY: OKSYWIE 0010 ARQ opr mode. login 43210 sqny. (WT)
12495 9HMX3: TK Novomir 1 2324 ARQ w/NVRTLG+ crew TG tfc. EOIW: TKH Sergey Lemechev 2346 ARQ w/crew TG's to Novorossiysk.(RB)
12495.5 9HWO4:SHIP "BOCHNIA" 1918 ARQ tfc via gdynia radio. (DW) C6HI6: M/V Atlantic 1548 ARQ w/tlx re crew exchange, login now 61702 C6HI6, app the ex-Iris. (RB)
12496.5 BOPU: M/V Qu Yuan 1516 ARQ w/tlc re ETA Cristobal. 3ETG9: M/S Royal Majesty 1641 ARQ Majesty Cruise Lines cruiseship, w/AMVER/PR, login 22313 RYLM. BRXU: Ming He 2325 ARQ w/tlx re Satcom-C is out.(RB)
12497.5 ATPN: M/V Hargobind 0220 ARQ w/tlx to ShipIndia re ETA Kwangtang, S. Korea, login 23590 HRGD. UDSX: TKH Vera Maretskaya 1445 ARQ Russian bulk carrier w/tlx to Japan re cargo plan for Kiashima, carrying 19760 MT flour. (RB) ATPN: M/V HARGOBIND 2340 ARQ wkg kph w/ tlx, tampa to cristobal. SQLY: CASSIOPEIA 0047 ARQ w/tlx. UDSX: M/V VERA MARETSKAYA 0100 ARQ w/tlx dest kimitsu. login 54979. SQGX: OTOL 0705 ARQ w/tlx. itu mars gives name as otol-swi216 ?? login 43237 sqgx. WSNB: SS KENAI 0245 ARQ w/e-mail, eta el segundo 5/29. login 10738 wsnb. (WT)
12498 UWDX: TKH KAPITAN PAPKOV 1051 ARQ msg for eta Port Said fm Km Chervanyov. login 67846 UWDX (Vsl is ex Leninskie Iskriy)

12499 Unid: 2134 ARQ in qso with lyngby radio/oxz. opr chat in danish. (WT) OWGU2: Charlotte SIF 1552 USB w/login for msgs, login 85375 OWGU2. (RB)
12500 SHIP "JOLLY GIALLO" 2140 ARQ tfc via rome/iar. (DW) (IBUJ- LOGS)
12500 IBEA: M/C ECO AFRICA 1057 ARQ msg to Milan for eta Novorossiysk. login 20857 IBEA. (HOOD)
12502 P3VL2: M/V PONTOPOROS 2342 ARQ w/tlx login 56327 p3vl2. SQEW: M/S EUGENIUSZ KWIATKOWSKI 0035 ARQ wkg wlo w/tlx to poland. (WT)
12503 A8EF: M/T PAOLA I 0025 ARQ w/tlx login 26460 paol. (WT)
12503.5 LANU4: LPG/C Ravnanger 1822 ARQ w/tlx tfc re diagnostics of a system.(RB)
12504.5 SHIP "ASPILOS" 1821 ARQ tfc (giving eta khorfakkan) via gkq. (SWID -LOGS) C6KV3: SHIP "CANTERBURY STAR" 1819 ARQ obs to portishead. (DW) 9HUN3: M/V HERCEG NOVI 1800 ARQ psn rpt. login 63300 9HUN3. J4UW: CARIBOU 1007 ARQ msg to GKQ5 login 16792 J4UW. (HOOD)
12505 UNID: M/T SOLOGNE?? 0016 ARQ opr mode, unreg selcall, qru. login 27671 logn. (WT)
12509 WEZM: SS EWA 0156 ARQ wkg kej w/ amver/pr. dept vancouver 5/2 eta l.a. KQ2XVJ2: "TESTSHIP" 1730 ARQ wkg kej w/ qrg rpt, id 02c5. login 10942 kq2xvj2. WRJP: M/V R.J. PFEIFFER 0505 ARQ w/qrg rpt. id 0210. login 12171 wrjp. (WT)
12510 LAUG4: M/V BRUNTO 0020 ARQ w/tlx. login 26215 brunto. J8EX5: M/V RACISCE 0103 ARQ w/tlx in polish. login 26545 racisc (WT)
12512.5 SHIP "MARIUPOL STAR" 2115 ARQ tfc in 3sc via mariupol/usu. second station broke in with kcpv selcals - qso ceased. (DW) (9HWM4 -LOGS) URFC: bulker BERDYANSK 1805 ARQ crew TGs to USU (vessel near Hong Kong). (HOOD) UYRK: TKH Viktor Talaliykhin 2202 ARQ w/tfc to Mariopol Radio. UTJK: TKH Katya Zelenko 2238 ARQ w/posn tlx, other admin tfc from master, KM Bandlin, login UTJK 67830.(RB)
12521 KLKZ: M/T OMI COLUMBIA 2255 ARQ w/fax to alyeska valdez. eta cape hinch. (WT)
12523 YLBY: TR Akademikis Artobole 1515 ARQ -vskis, w/tlx to Riga Chart via Riga Radio on "SS006012", or Riga 12Mhz ch.6. YLBF: TKH Ivans Kulibins 1712 ARQ w/SVC+ tfc to Riga Radio, login 60633 YLBF. (RB)
12524 UNSW: TKH Kapitan Bukmakin 0227 FEC w/"raboty" wx report to Arkhangelsk Radio from master KM Zalyvskiy.(RB)
12535.5 P3NH5: M/V KAPITAN KUDLAY 2352 ARQ w/msg, login 55467 p3nh5. (WT)
12555 4JIJ: TK GENERAL ASLANOV 0800 CW msg to Baku Radio UON (vsl is ex UDWJ). 4JJA: TKH MERKURIY 2 0732 CW wkg UON (on 12626.5) for msgs. Vsl is ex Sovetskaya Tadzhikstan. (HOOD)
12561 UGMS: RTMS Kapitan Smelov 1926 RTTY 50/170 admin msgs from, master KMD Safonov. UEYP: TKH Tonya Bondarchuk 2010 RTTY in 50/170 admin TG from master KM Sugak. (RB)
12561.5 UEYJ: RTMS RUSSKOYE POLYE 0930 RTTY 50/170 crew TGs to UIW. (HOOD) UVKG: RTMS Stratosfera 1725 RTTY in 50/170 admin TG's to Sevastopol Radio for ETA Las Palmas from master, KM Tsarivnik. UNNI: RTMS Chernyashev 2222 RTTY in 50/170 admin/crew TG's to K-grad (KLD/MRH).(RB) USJZ: PB SERGEY VASILISIN 0020 RTTY 50/170 wkg uiw w/tlg's all numbers. (WT)
12562 LYKK: Unid Lithuanian ship 2034 RTTY in 50/170 admin TG's to Klaipeda Radio from master KM Achovskiy. Name? N/A: RKTS Enstructor Kokov 2103 RTTY in 50/170 admin TG's to Sevastopol Radio (SVS/NRH) from master KM Kazurov, also sends same for UUUB, RKTS Maral Sudets from master KMD Chebota.(RB)
12562.5 ESMS: RTMS MERISKI 0703 RTTY 50/170 Msg in Eng from Km Chistyakov to Tallinn and Brussels via UIW. UYUV: TKH INESSA ARMAND 1620 50/170 admin to UUI. (HOOD)
12563 UZKJ: TKH Novomirgorod 2024 ARQ RYRY/DE & w/SVC BLIND radio msg, uses incorrect callsign UKZJ during RYRY. UEXD: TSM Olayne 2222 RTTY 50/170 Russian stern trawler, w/crew TG's home using hull#/ID MI-8339. (RB)
12563.4 VSBU7: Stena Queen 2322 ARQ AMVER/PR 28.48N/89.53W. (AB2)
12563.5 ESMD: RTMS Kormoran 2235 RTTY in 50/170 RYRY/DE, & w/crew TG's to Tallinn Radio using hull#/ID RTMS 7535, app chg from RTMS Lembit Pern, 3rd logging using this name.(RB) 4JGD: TK SHAMKHOR 1035 RTTY 50/170 admin in Eng to LIA OIL Geneva via UON (Vsl is ex General Babayan, UDWN). UQKW: TKH PETROVSKIY 1623 RTTY 50/170 admin fm Km Petrov to UCE. (HOOD)

12564 UJDQ: TKH VERA MUKHINA 0810 RTTY 50/170 admin (passing Gibraltar) from Km Kurochkin to UCE. (HOOD)
12564.5 UWZY: UPS PROFESSOR ANICHKOV 0747 RTTY 50/170 admin fm Km Kovalchuk to UUI. Vsl is a training ship of Odessa Sea Academy. (HOOD) UOLQ: BATM Petr Chafranov 1127 RTTY 50/170 w/crew TG's (KLD/UTF). UCBD: BMRT Kronshtadt 1846 RTTY 50/170 (MRM/KRH) crew TG's using hull#/ID MB-0356. YLGD: TR Ronyu Sala 1950 RTTY in 50/170 RYRY/DE to UIW, & w/admin msgs to Riga RTF (REFTRANDFLOT, Refrigerated Transport Fleet, Klaipeda) from master KM Makov. EKGS: TK Kapitan Telov 2001 RTTY in 50/170 crew TG's using hull#/ID of MA-0060 (MRM/KRH). EOJX: RS Paratunka 2004 RTTY in 50/170 long admin TG from master KMD Tinkov. UCBD: BMRT Kronshtadt 2019 RTTY 50/170 (MRM/KRH) crew TG's using hull#/ID MB-0356. UEPZ: RTMS Nikolay Afanasev 2026 RTTY in 50/170 RYRY/DE to UIW, & into crew TG's to same, Kaliningrad Radio, ex-LYEW. UYTB: RTMKS Rybak-1 2118 RTTY in 50/170 crew TG's to Kaliningrad Radio. UNNI: RTMS Chernyashev 2202 RTTY in 50/170 crew TG's to K-grad (KLD/MRH). (RB)
12565 LYBZ: M/L KAPITONAS DUBININ 0751 RTTY 50/170 crew TGs to LYK. UZHQ: APATIT 0752 RTTY 50/170 admin and BBXX using hull MA-0819 to UDK2. (HOOD) UDUR: RTMKS Admiral Starkov 2047 RTTY in 50/170 RYRY/DE to UDK-2, & into admin TG's to Murmansk Sevryba using hull#/ID MA-1812 (MRM/KRH). (RB)
12565.5 UCBZ: RTMS Atoll 2153 RTTY in 50/170 crew TG's to Novorossiysk Radio (NVR/MRH).(RB)
12566 YLEL: GUNARS AKIS 0756 RTTY 50/170 msg from Km Drozdov using hull BMRT-0575 to UQK. UFNH: BMRT VLADIMIR BRODYUK 0826 RTTY 50/170 admin and BBXX from Km Tsuranov using hull MB-0021 to UDK2 . vsl off the coast of W Africa. (HOOD)
12566.5 ELSJ9: TKH KAPITAN ANDREY POLKOVSKIY 0747 RTTY 50/170 msgs to ODS/UMF (BLASCO). Vsl is ex ENKP. (HOOD) UNMJ: BATM Dzhaparidze 2111 RTTY in 50/170 admin msg from master KMD Serenkov, off w/"DE UNMJ", usually uses hull#/ID of BATM 6040.(RB)
12567 UHLK: OBVA 0928 RTTY 50/170 msgs and BBXX from Km Pogorodniy using hull MI-0624. (HOOD) UFXI: TR Novorossiyskiy Rabochin 2059 RTTY 50/170 Russian refridgerated fish carrier w/RYRY/DE to UGW, Novorossiysk Radio & w/admin TG from master KM Aliev, to Novorossiysk NPORP of weight & type of fish received from the factory trawler BMRT Atoll. UCBW: RTMS Nikifor Pavlov 2108 RTTY in 50/170 w/RR list of supplies needed to Novorossiysk NPORP from master KM Povdyrev. (NVR/KRH). SQNT: M/V Kociewie 2222 ARQ w/tlx in Polish. (RB)
12567.5 UYKG: TKH KOTOVSKIY 1047 RTTY 50/170 RYs on this freq and 12568.5 to UUI, no joy. (HOOD)
12568 UVEZ: LEONID GALCHENKO 0750 RTTY 50/170 name and hull MA-1821 in msgs fm Km Samoylov to MURMANSK BTP DEVRYBA. (HOOD) UPRR: BATM Petr Sbignev 2127 RTTY in 50/170 crew TG's to UDK2, Murmansk Radio using hull#/ID MA-0055. (RB)
12569 UAYQ: BMRT Sergey Markarevic 2020 RTTY -h 50/170 RYRY/DE to UDK-2, Murmansk Radio, & w/pogoda (wx) report using hull#/ID MB-0017, also lists callsigns UIAW, UHLE, & UHLW, also large trawlers out of Murmansk, & UAYX, UAYO which are unknown. This i s app ex-UYAC. UCSA: RTMS Eysk 2114 RTTY in 50/170 crew TG's to Novorossiysk. (RB)
12571 URMI: TKH MEKHANIK ZHELTOVSKIY 0830 ARQ admin fm Km Sukhanov to UCE. UMQB: TKH MEKHANIK KOTTSOV 0946 ARQ msg fm Km Trenin to UCE (Sel 55521). (HOOD)
12571.5 LYBA: SRTMK Seduva 2120 RTTY in 50/170 crew TG's using hull#/ID LI-8145.(RB)
12572 UZHQ: APATIT (MA-0819) 0732 RTTY 50/170 OBS rpt to UDK2 (then QSY 8402.0 for crew TGs). UAYX: N/A 0758 RTTY 50/170 admin from Km Bezdolniy using hull MB-0013 to UDK2. (HOOD) (app chg from USRM, BMRT Pavel Panin? -LOGS)
12572.5 SQMO: M/T AQUARIUS 0226 ARQ w/msgs. login 43208 sqmo. (WT)
12573.5 UNIX: PR RUS 0729 RTTY 50/170 crew TGs to UIW (hrd twice with this call and name). (HOOD) UYTB: RTMKS Rybak-1 2100 RTTY in 50/170 RYRY/DE to UIW, K-grad, & w/3 admin TG's (KLD/RYK) to Kaliningrad Rybkom Talekseenko from master KMD Solovev. (RB)
12574 UIAW: MIKHAIL KVASHNIKOV 0754 RTTY 50/170 admin fm Km Pakhodin using hull MB-0006 to UDK2. (HOOD) UPRR: BATM Petr Sbignev 2010 RTTY in 50/170 RYRY/DE to UDK2, Murmansk Radio, & w/crew TG's using hull#/ID

MA-0055. UNRK: BMRT Demyansk 2050 RTTY 50/170 crew TG's to Murmansk Radio, using hull#/ID MB-2420 (MRM/KRH). UDUR: RTMKS Admiral Starkov 2052 RTTY in 50/170 RYRY/DE to UDK-2, & into admin TG's to Murmansk Sevryba using hull#/ID MA-1812 (MRM/KRH). (RB)
12574.5 UWGZ: TKH KAPITAN SMIRNOV 0915 RTTY 50/170 msg in Eng to Silver Lines, London via UUI. EMMD: PROLIV VILKITSGO 1155 RTTY 50/170 crew TGs to UIW. (HOOD)
12576 EMMN: RTMS FOROS 0634 RTTY 50/170 msgs fm Km Kravtsov to URL. (HOOD)
12576.5 C4TW: TR Frio Argentina 2140 RTTY in 50/170 crew TG's, flagged-out Russian refridgerated fish carrier.(RB)
12577 OXZ: Lyngby Radio 1238 GMDSS 100/170 one packet 1243z. fm 219--1000 (lyngbyradio) to 538--1079 test indicating 12290 for tx/rx. (DW)
12579 NIK: USCG Boston 1213 FEC idling then msi broadcast starts 1218z, international ice patrol(iip) bulletin. (DW)
12579.5 YLQ: Riga Radio 0645/1812/1917 CW/SITOR marker "ylq scan auto" and tuning bursts. (DW)
12580 GKE5: Portishead Radio 0646 CW/SITOR marker "gke5" and tuning bursts. (DW)
12581 LSD836: Buenos Aires Radio 1842 CW/SITOR marker "lsd836" and tuning bursts. (DW)
12582 SAB606: Goeteborg Radio 0649 ARQ "erererer" maritex marker string, selcals cptv. tfc to morflot batumi/ugsz. (WT)
12582.5 FFT61: St Lys Radio 1156 ARQ end of qso with ship sereno (?). marker "fft" and tuning burst.sitor/b at 1200z. tfc list, svc to french ships re charges, qrj list. (DW)
12583.5 UUI: Odessa Radio 1923 ARQ tfc to uypd, dvuzeppe/uysj in third shift cyrillic, & to other ships. (DW)
12584.5 WLO: Mobile Radio 2040 CW/SITOR marker "wlo" and tuning burst. (DW)
12585 PCH55: Scheveningen Radio 2041 CW/SITOR marker "pch" & tuning burst. (DW)
12586.5 DAN: Norddeich Radio 2044 CW/SITOR marker "dan" & tuning burst. (DW)
12587 EAD: Madrid Radio 1903 CW/SITOR marker "ead" and tuning bursts. (DW)
LZW: VARNA RADIO 0650 ARQ tfc to LZGX: cont carrier STOYKO PEYEV Selcal 05936 & tfc list for 10 vsls. (HOOD)
12588 HEC13: Bern Radio 0653 ARQ sending station info to ship c/s ibea.(DW)
12589.5 WCC: Chatham Radio 2053 CW/SITOR marker "wcc" and tuning burst. (DW)
12590 EAD: Madrid Radio 2101 FEC qtc list. nxt list 2300z. rptd. (DW)
12591 SAB624: Goeteborg Radio 0700 ARQ end of qso with unid ship. marker "ererer" maritex string, selcals bfqk. (DW)
12592 CNP: Casablanca Radio 1956 CW/SITOR marker "cnp" & tuning burst. (DW)
OXZ: Lyngby Radio 2106 CW/SITOR marker "oxz" and tuning burst. (DW)
12593 ESA: Tallinin Radio 1908 CW/SITOR marker "de esa" & tuning burst.(DW)
12593.5 9VG81: Singapore Radio 0621 ARQ poor sync. wkg unid ship. marker "9vg" and tuning burst. (DW)
12594 PPR: Rio de Janeiro Radio 2110 CW/SITOR marker "ppr" & tuning bursts. (DW)
12594.5 A9M: Bahrain Radio 0626 CW/SITOR marker "a9m" and tuning burst. (DW)
12595 CUL: Lisbon Radio 2115 ARQ receiving tfc fm ship/cufw. (DW)
12596 WLO: Mobile Radio 2122 CW/SITOR marker "wlo" and tuning burst. (DW)
12596.5 PCH56: Scheveningen Radio 2124 CW/SITOR marker "pch" and tuning burst. (DW)
12597 9VG95: Singapore Radio 0628 ARQ marker "9vg" and tuning burst. working ship - unable sync dueqrm. SPB62: Szczecin Radio 0631 CW/SITOR marker "spb" and tuning burst. (DW)
12597.5 UFN: Novorrosiysk Radio 0633 ARQ accepting tfc fm unid ship c/s ueuk. marker "ufn", wkg ship c/s uaoi. (DW)
12598 WCC: Chatham Radio 2127 CW/SITOR marker "wcc" and tuning burst. (DW)
12598 SPA62: Gdynia Radio 1918 ARQ working ship "bochnia"/9hwo4. marker "spa" and tuning burst. (DW)
12599 WLO: Mobile Radio 2130 CW/SITOR marker "wlo" and tuning burst (DW)
12599.5 UAT: Moscow Radio 0639 ARQ accepting tfc fm ships c/sign ubny, mskusdu (msk?). tfc to kuusalu/esgi. marker "uat" and tuning burst. (DW) UAT: MOSCOW RADIO 0708 ARQ msg in EE to ESGI: M/L KUUSALU for Km Redko. (HOOD)
12600.5 HEC23: Bern Radio 2132 CW/SITOR marker "hec" & tuning burst (DW)
HEC: Berne Radio, Switzerland 2044 ARQ w/CW-marker (PB)
12601.5 OXZ: Lyngby Radio 2134 ARQ qso with unid ship. marker "oxz" and tuning burst. (DW)

12602.5 IAR: Rome Radio 2140 ARQ receiving tfc in italian fm ship "jolly giallo" then marker "iar"and tuning bursts. (DW)
12603.5 SVU5: Athens Radio 1926 CW/SITOR marker "de svs" and long tuning dash on mark. (DW)
12604.5 9AR: Rijeka Radio 0718 CW/SITOR marker "9ar" and tuning burst. (DW)
12605.5 FFT64: St Lys Radio 0720 CW/SITOR marker "fft" and tuning burst. (DW) FFT64: ST LYS RADIO 0940 ARQ msg to URME: TKH KOMSOMOLETS MOLDAVII (Sel 67841) and 1425 ARQ msg to 5BVC: OCEAN WINNER (Sel 05252). (HOOD)
12606 WLO: Mobile Radio 1929 CW/SITOR marker "wlo" and tuning bursts. (DW)
12607 GKQ5: Portishead Rdo 0721 CW/SITOR marker "gkq5" & tuning burst. (DW)
12607.5 WNU: Slidell Radio 2152 FEC offshore marine forecasts fm nws new orleans/nws miami for gulf,caribbean, sw n/atlantic. stn info, tfc list, thurs baseball results. zsc tfc list. marker "wnu" and tuning bursts. (DW)
12608 UAT: Moscow Radio 1823 CW/SITOR marker "uat" and tuning burst. (DW)
12609.5 WLO: Mobile Radio 1931 SITOR/CW marker "wlo" and tuning bursts. (DW)
12610.5 VCT: Tors Cove 2105 FEC station info, qtc list, sports (nba playoffs), zsc tfc lists. marker "vct" and tuning bursts. (DW)
12611.5 KEJ: Globe Wireless, Kahalelani, Hi, US 0420 FEC w/station info, tfc list. (RB)
12613 XSQ: Guangzhou Radio 1831 CW/SITOR marker "xsq" & tuning bursts.(DW) XSQ: Guangzhou Radio, CHN 2032 ARQ w/CW-marker (PB)
12615 USU: Mariupol Radio 0600 ARQ working uypg, uvui. marker "usu" & tuning bursts. (DW) USU: MARIUPOL RADIO 1817 ARQ msg to USPV: MEKHANIK ANISKIN. Same at 1125 msg in EE from Algeciras for UVYH: TKH SUMY. (HOOD)
12624 SAB691: Goeteborg Radio 1835 FEC qtc list/station info for globe radio network stations before fading out. (DW) SAB: GLOBAL RADIO, GOETEBORG 0735 FEC Global's "Hello all stations" and tfc list. (HOOD)
12625.5 UCE: Arkhangelsk Radio 0631 ARQ tfc in 3sc. marker - tuning bursts without id. Inverted selcal socuv then sitor/b to = radio wybornaa adres 2 km = (DW)
12626.5 UON: BAKU (CASPIAN SHIPPING CO) RADIO 1013 CW tfc to 4JBZ: TKH MAHMUD RAGIMOV. (HOOD)
12627.5 USU: Mariupol Radio 2226 CW/SITOR marker "usu" and tuning burst. At 0815 wkg ships c/sign urer and usbt. (DW)
12631 WOM: Miami Radio 2245 FEC wx forecast fm nws miami for caribbean and sw atlantic. forecast fm nws new orleans for gulf of mexico. (DW)
12632 WOO: Ocean Gate Radio 2230 FEC wx forecasts for n/atlantic, caribbean and gulf of mexico. offshore marine forecast by nws taunton, ma. (DW)
12632.5 UGC: St Petersburg Radio 0531/0757 CW/SITOR marker "ugc" and tuning bursts. (DW)
12639.5 OST50: Oostende Radio 2243 CW/SITOR marker - tuning burst and "ost". (DW)
12647 LPD: General Pacheco Radio 2300 CW/SITOR marker "lpd" and tuning bursts. (DW) LPD: General Pacheco Radio 0425 ARQ Argentina, w/sitor free signal, CW ID. (RB)
12649.5 XSG: Shanghai Radio 2303 CW/SITOR marker "xsg" & tuning bursts. (DW) XSG: Shanghai Radio, CHN 1334 FEC w/4Lgs + Freq. schedule, at 2008, w/CW-marker (PB)
12651.5 FFT: St Lys Radio 0909 CW/SITOR marker "fft" and tuning burst. (not particularly clean note - spurious ?) - testing? as marker sometimes off. (DW)
12652 SAB647: Goeteborg Radio 2305 CW/SITOR marker "sab" and 7 tuning bursts with varying tone patterns. (DW)
12714 UCE: ARKHANGELSK (Northern Shipping Co) RADIO 0725 ARQ admin to UVAK: PIONER ESTONII for Km Averin (vsl call sign changed in ITU to UCBW but still using old call). (HOOD)
12735 URL: SEVASTOPOL FISHERIES RADIO 0800 RTTY 50/170 RY tape to 4LA w/ freqs 12735/17147 and tfc to UYYP: TR BUKHTA KAMYSHOVAYA and ENFI: UPS KHERSONES (This one is ex ULXS). (HOOD)
12750 NIK: Uscg Boston 1018 FAX 120/576 ice chrt (BvR)
12947 UUI: Odessa Radio 1530 RTTY 50/170 tlx's (DG)
13030 UGC: ST PETERSBURG RADIO (BALTCO) 1312 RTTY 50/170 crew TGs for TKH NOVOMOSKOVSK. (HOOD)

13356.7 Egyptian Embassy, Algiers 1531 ARQ ATU-80 MSGs to MFA Cairo (MC)
13378.5 MFA Roma 0800 ARQ 5 LGs to unloc embassy (ANG)
13381.5 IPG20: Italian MFA, Rome 0704 ARQ 5LGs to San'a ("ambsana") (MC)
13383.5 MFA Rome 0731 ARQ 5fg's/chatter (DG)
13386.7 Egyptian Embassy, loc??? 1431 ARQ MSGs fm Rome to Cairo (MC)
13387 WJI***: Italian Intel, Rome 0718 ARQ-E 96bd/850 5LGs to "CJL" (Channel 38) QSX 14781.5kHz (MC)
13397 Unid: 1459 300.52/850 TP sys (RM)
13406.3 Russian Mil, loc?? 1401 MS5 12 tone vocoder (3300Hz pilot) (MC)
13413.5 French Diplo?,??? 1601 TT2300b 100bd tfc (MC)
13414.5 EAE220: MFA Madrid, S 1033 TWINPLEX 100 w/selcal TQQV (PB)
13415 PCW1: Mfa Den Haag 1712 TWINPLEX 100 (F7B4) 5 fgs to Tehran (BvR)
13418 Unid: 1518 ARQ-E 72/400 idling (DG) (6XM8/C37A Mossad/BND link -LOGS)
13419 Mossad 0530 ARQ-E 288 BND link very active til 1430 (ANEE)
13419 Unid: 1636 ARQ-E/288 w/enc (RM) (see prior log -LOGS)
13443 Unid: 1605 RTTY 100/400 w/enc (RM)
13447.5 GYU: Royal Navy, Gibraltar 1848 VFT: 2ch of Piccolo-6, eng ch. "de gyu we got greens this ta pal" (MC)
13447.9 GYU: Royal Navy, Gibraltar 1849 VFT: 2ch of Piccolo-6, traffic ch idle (MC)
13450 'RGA': DoSC Moscow 0800 RTTY 75bd/500, 5 LGs to 'BFR' (ANG)
13465.2 RFFA: MoD Paris 0942 ARQ-E3 200/400 idling (DG)
13465.2 RFFA***: FF, Paris 1554 ARQ-E3 200bd/400 5LGs relaying tfc fm RFFABCT, RFFTB (MC)
13481.7 Egyptian MFA, Cairo 1611 ARQ ATU-80 MSGs to selcal "TVQV" (Embassy Riyahd) (MC)
13501.7 Egyptian Embassy, Tripoli 1033 ARQ 100/140 5LGs and ATU-80 MSGs to MFA Cairo (jg cfkydp) (MC)
13501.8 Egyptian Embassy, Madrid 1609 ARQ ATU-80 MSGs to MFA Cairo fm "jg jmfsm" (MC)
13503 DoSC Moscow, link <40034> 1000 RTTY 75bd/500 5 LGs to unloc sta. (ANG)
13506 Russian Diplo, loc?? 1533 CROWD-36, tfc (MC)
13525.5 GYU: Royal Navy, Gibraltar 1001 VFT: 2ch of Piccolo-6, eng. "de gyu pse phone us kkkk" (QSX 11155kHz) (MC)
13525.9 GYU: Royal Navy, Gibraltar 1002 VFT: 2ch of Piccolo-6, traffic ch. idle (MC)
13530 DoSC Moscow, link <12311> 0753 RTTY 50bd/500 transmitting same strange 5FG message (190 grps)all day long. (ANG)
13541 USMC MARS stas 1550 PACTOR. w/MARSgrams (RM)
13548 P8C: French Embassy, loc? 1818 FEC-A 192/781 Ry's + P6Z de P8C int zbz [French embassy Beirut -log] (PB)
13592.6 Rome Meteo? 1507 FAX 120/576 wx fax (DG) (perhaps they wandered off 13597.4? -LOGS)
13593.7 RFFA: MOD Paris, F 0958 ARQ-E3 192/400 Msg in FF. (PB)
13870 Romanian MFA? 1401 ROU-FEC 164/400 diplo tfc (DG)
13908 German Diplo?,??? 0905 ARQ-E 96bd/200 crypto (QSY from 13903kHz) (MC)
13913.6 Unid: 1123 PacTOR 200bd/200 UNID sub-mode, no sync (MC)
13920 AXM: Melbourne meteo 1449 FAX 120/576 gale wrng (BvR)
13933.6 Algerian Customs, ElOued 1104 Coquelet-8 26.7bd MSGs in FF to Wilayate Customs (MC)
13934.8 Algerian Customs, Ouargla 1247 Coquelet-8 26.7bd MSGs in FF to Deb Deb Customs (MC)
13936.3 Algerian Customs, Ouargla 1041 Coquelet-8 26.7bd MSGs in FF to Oran/Skikda/Wilayate Customs (MC)
13945.6 Unid: 2151 ARQ-E 96/200 idling (DG)
13954.5 HBD20: Swiss MFA, Berne 1812 ARQ 5LGs to Embassy Havana (MC)
HBD20: MFA Berne 0841/1327 ARQ 5FG'S (DG)
13956.4 Tunisian diplomatic 1855 FEC 5LG msgs; op chat in FF. (JD2)
13965.5 HBD20/7: Swiss MFA, Berne 1843 ARQ Delivering message to Embassy Ottawa "BMRC"5. Swiss Embassy, Ottawa 1844 ARQ MSGs from MFA Berne. (MC)
13965.6 Unid: UTC? PACTOR unid. (JJ2) (ICRC Geneva -LOGS)
13966.4 ICRC India PACTOR-I, status-report. (JJ2)
13967.2 Unid: 0731 FEC CBRS mode time signal "-22 -22 -20 - 07h30m07s" (MC) (this is at least French Gov't, see Dec. 1995 WUNNEWS -LOGS)
13976 HBD20: MFA Berne 0832 ARQ 5FG'S (DG)
13977.7 RFFA: MOD Paris 0626 ARQ-E3 200 msg to n'djamena chad (EW)

13981.8 Unid: 1742 ARQ Operator chatter in Italian selcal "IQIZ" (MC)
13986.7 Unid 2037 ARQ-E3 192/400 RQ sig (RM) (RFFA MOD Paris? -LOGS)
13996.5 Unid UTC? RTTY 50bd/386 testslip "RYRYRYRYRY NNNN ZCZC QJH HSSSYFYX". (JJ2) (Ary sez this is Khartoum ACC -LOGS) STK: Khartoum Air 1947 RTTY 50/400 zczc qjh hsssyfyx ry's nnnn (RM)
14311.7 Unid: Chinese Diplo,??? 1517 4+4 (MC)
14338.8 BAF47: Beijing, China 0930 RTTY 850/50 Synoptic wx; either off-freq or using LSB (should be 14340 kHz) (JD2)
14365.3 Unid: 1613 PacTOR 200bd/200 UNID sub-mode, tfc (MC)
14367 BZP54: Xinhua 1031 RTTY 75 eng nx (BvR)
14372 Unid: 0920 RTTY 75/400 encrypted tfc (DG) (SNN299? -LOGS)
14424.7 Egyptian MFA, Cairo 1146 ARQ 100bd/170 Calling "KKVA" (Embassy Lagos) (MC)
14425.3 Unid 2203 G-TOR 100/200, ASCII Base3 to Lubo, and Rotax and Borax trading connect verifiers, no traffic (ED)
14430.9 Unid 2140 G-TOR 100/200, ASCII (upper case) no callsigns, sp.msg. re: permits and a list. ? (ED)
14433 Unid 1703 PACKET 300/200 5FG's, Pepe & Tito in communications. This net was very active 3 years ago with similar callsigns, Bocu, Sara, always consonant, vowel, consonant, vowel etc., I believe at the time someone identified the net as related to a military training center somewhere in South America. Anyone able to add more details on this...????? (ED)
14452 HMF57: KCNA Pyongyang 0757 RTTY 50/250 nx (DG)
14465.5 CLP1: MFA Havana 2120 RTTY 50/500 crypto after ZZZZ to Nigeria (RM)
14471.7 Unid: 1512 TWINPLEX-1? 100bd -200/-100/100/600 tones (MC)
14475 DoSC Moscow, link <60047> 0820 RTTY 75bd/500 5 LGs to unloc sta. (ANG)
14477.3 Unid. 2130 RTTY 100/850 w/enc (RM)
14492 MFA Vienna 0830 ARQ-S 96 (ANEE)
14497.5 CSY: Santa Maria Air 2210 RTTY 50/850 ry (RM)
14508 Unid 1643 ARQ6-90/200 +CW went to idle just as was tuned in. s/o msg at 1714 AS 34 to 41 qru ar end" then brief cw (RM)
14524 SAM: MFA Stockholm 0810 SWE-ARQ 100bd to Beijing, Manila, Riyadh (ANG)
14525 DoSC Moscow, link <20076> 1225 RTTY 75bd/500 5 LGs to unloc sta. (ANG) Unid 1240 RTTY 75/500 5LGs ended w/qru no ID; maybe Embassy Albania? (PB) (Brotherhood, -LOGS)
14532 SOUD station 1610 RTTY 75/500 5FG'S (DG)
AFA6FN: 1803 PACKET clg AGA3BM (RM)
14534.5 MFA Luanda 0800 ARQ maybe mfa lisbon w/ckt test qsy to chan 2 (?) (ANEE)
14540.2 Russian Mil, loc?? 1038 MS5 12 tone vocoder (3300Hz pilot) (MC)
14543.7 Italian Diplo/Mil,??? 0907 FSK 1200bps UNID System (MC)
14545.7 701***,751***: North Africa? 1617 Packet 300bd/200 AX.25, crypto (MC)
14593 MTS: RAF Port Stanley 1800 PICC//VFT two channel piccolo vft on usb. (DW)
14593.5 MTS: RAF Port Stanley, Falklands 1042 VFT: 2ch of Piccolo-6, eng. ch "mkk de mts pse confirm inskip chirp" (MC)
14612 Unid: 1139 RS-ARQ 228.5bd/170 tfc (MC)
14615.2 Russian Mil, loc?? 1516 MS5 12 tone vocoder (3300Hz pilot) (MC)
14637.9 Unid 2150 G-TOR 100/200, connection, "Movil2" to "Base1", no traffic, just connection verifiers. (ED) (Alan Doherty pointed out that this might be Irish Military due to 'Movil' being in Ireland -LOGS)
14642 DoSC Moscow, link <10042> 0753 RTTY 75bd/500 5 LGs to unloc sta. (ANG)
14643.7 Unid: 1719 TWINPLEX 100 (F7B1) UN nx (BvR) (see next log -LOGS)
4UZ: UNO Geneva 1700 TWINPLEX 100/170 msg from un sec-gen (DG)
14650 Unid: 1040 RTTY 75 coded mgs s/off with qrm 5 r nil asm qzn 3 tks for fb qso 73 sk (BvR)
14680 MFA Bucharest, Romania 0826 ROU-FEC 164.5/379 Encrypted tfc. (PB) (V5G -LOGS)
14680.7 V5G***: Romanian MFA, Bucharest 1209 ROU-FEC 164.5bd/400 Circulars for all embassies (Bitmask=24) (MC) MFA Bucharest 1145 ROU-FEC 164.4 (ANEE)
14688.2 MFA Bucharest 0727 ROU-FEC 164/400 diplo tfc/nx (DG)
14690.5 GYU: Royal Navy, Gibraltar 1804 VFT: 2ch of Piccolo-6, eng. ch "de gyu lo om qsy f2192 f2192..." (MC)

14690.9 GYU: Royal Navy, Gibraltar 1804 VFT: 2ch of Piccolo-6, traffic ch idle (MC)
14692.5 JMJ: Tokyo Meteo 1159 FAX 120/576 wx chrt (BvR)
14703.1 Romanian MFA? 0827 ROU-FEC 164/400 diplo tfc (DG)
14734 Polish Embassy, Algiers 1231 POL-ARQ 100bd/230 MSGs in Polish to MFA Warsaw marked "m:algier" (MC)
14750.2 MOSSAD Tel Aviv 1620 UNID FEC system 75bd/100 ACF=28/224//10352.2 & 12376.2 (ANG)
14750.5 MOSSAD Tel Aviv 1623 UNID FEC system 150bd/100 ACF=28/224//10352.5 & 12376.5 (ANG)
14761.5 NNN0MDA: USN NH 1604 PACTOR 200/200 MARS GRAMS (DG)
14770 Unid: 1057 FSK 96bd/500 UNID System, sync. cont, no ACF, M:S=1:1 (MC)
14781.5 CJL: Mossad 0700 ARQ-E 96/400 testing (DG) CJL: MOSSAD, TelAviv 0713 ARQ-E 96bd/330 5LGs and opchat in psuedo-EE to "WJI" (MC)
14785.3 ATP65: MEA Delhi 1535 RTTY 50/600 EE nx (DG)
14787 REK4: UTC? UNID RTTY 49.69bd/745, 3rd shift cyrillic 5 LGs to RCY normally using 500 Hz, QSX 11511/13511 kHz. (ANG)
14794.8 DOR: MFA Sofia 0912 RTTY 75/850 bul nx (DG)
14798.7 RFFVAE: FF Dhahrain 1540 ARQ-E3 200/400 idling (DG)
14799.3 DOR: MFA Sofia 0847 RTTY 150bd/500 with BTA bulletins (ANG)
DOR: MFA SOFIA 0842 RTTY 150/500 bul nx (DG)
14842 HGX41: HUN. EMB. Damascus 0818 DUP-ARQ 125/170 5FG'S (DG)
14889.7 MFA Cairo 0830 ARQ (ANEE)
Egyptian MFA, loc?? 0823 ARQ 5LGs signed "ambassador menisi" (MC)
14896 Russian Mil, loc?? 1619 81-81 81bd/200 tfc (MC)
14906.7 Unid: N.Africa? 1415 Packet 300bd/200 crypto (MC)
14909.7 Egyptian Emb. Tunis 1127 ARQ atu-80 msgs (DG) Egyptian Embassy, Tunis 1241 ARQ ATU-80 MSGs "jg hlgp" to MFA Cairo (MC)
14912.5 SOO291: Warsaw, POL 1856 FEC mention Pres Clinton in Polish nx. (RT2)
14922 Unid: 1300 FEC-A 144/400 encrypted tfc (DG)
14926.7 RFTJ: FF Dakar, Sen 1823 ARQ-E3 192/425 transfer orders. (RT2)
14927.6 RFFKC: 1230 ARQ-E3 192 wkg RFFA (ANEE) [probably FF Provence, F - LOGS]
14950.5 GYU: Royal Navy, Gibraltar 1205 VFT: 2ch of Piccolo-6, eng. ch "de gyu lolololololo kkkilo" (MC)
14950.9 GYU: Royal Navy, Gibraltar 1206 VFT: 2ch of Piccolo-6, crypto tfc (MC)
14953.5 MTS: RAF Port Stanley 1802 PICC// 14593.510. eng chan in vft - idle. signal slowly deteriorating. (WT)
14966.7 Egyptian Embassy, Moscow 1329 FEC ATU-80 MSGs to MFA Cairo in SBRS mode (MC)
14970.3 SAM: MFA Stockholm 1633 SWED-ARQ 100/400 diplo tfc (DG)
14970.5 MKK: Royal Air Force, London 1723 VFT: 2ch of Piccolo-6, eng. ch "muh de mkk plse qsy f3606 kkkilo" (MC)
14970.9 MKK: Royal Air Force, London 1727 VFT: 2ch of Piccolo-6, crypto tfc (MC)
14975 RFGW: MFA Paris 1330 FEC-A 192/400 DIPLO TFC (DG)
14982.5 RBV76: Tashkent Meteo 1440 FAX 90/576 wx faxes (DG)
14986.7 MFA Cairo 1609 FEC atu-80 msgs (DG)
15036.7 Egyptian Embassy, Bamako 1716 ARQ ATU-80 MSGs "jg ykjkwl kds kdktxke" (MC)
15041.7 Egyptian MFA, Cairo 0806 ARQ ATU-80 MSGs to Abu Dhabi and Moscow (MC)
15043.7 Egyptian MFA, Cairo 1351 ARQ ATU-80 MSGs and 5LGs to Washington (lkzgcg) (MC)
15622 Unid: 1416 ARQ6-90 200bd/400 (const. carrier) 5LGs (MC)
15633 HMF26: KCNA NX Pyongyang 0950 RTTY 50/250 nx (DG) HMF26: KCNA News, Pyongyang 0959 RTTY 50bd/400 "qra de hmf26" marker (MC)
15652 SNN299: Polish MFA, Warsaw 1122 POL-ARQ 100bd/250 Press review in Polish (MC)
15661 Unid: 1537 Harris 39 tone modem (3300Hz pilot) (MC)
15709.5 French Diplo, loc?? 1250 TT2300b 100bd idle (MC)
15729 AJO: USAF, Incirlik, Turkey 1340 ISB working AJE - voice on LSB, 75-bd crypto "6028" VFT on USB (JD2)
15750 ROYAL NAVY 1004 RTTY 75/850 ratt bdcst (DG)
15770 Deutsche Welle 0808 RTTY 100/250 testing (DG) Deutsche Welle Trincomalee 0800 RTTY 100/300 marker with ry's and "deutsche welle relais trincomalee sri lanka" no other traffic before off air. (DW)
Deutsche Welle relay sta Trincomalee SLK 0820 RTTY 100/425 w/test

tape. (ML2)
15832.7 V5G***: Romanian MFA, Sofia 1254 ROU-FEC 164.5bd/400 (Bitmask=16) crypto (MC)
15851.5 Unid: 0630 ARQ Unid 5lm tfc poss diplo Windhoek Namibia? tfc ends with "f x f x f x f x f x" (ANEE)
15861.7 SAM: Mfa Stockholm 1051 SWED-ARQ 100 5 fgs (BvR)
SAM: MFA Stockholm 0741 SWED-ARQ 100/400 diplo tfc (DG)
15895 AJE: USAF, Croughton, UK 1340 ISB working AJO - voice on LSB, 75-bd crypto "6028" VFT on USB (JD2)
15898 RFGW: Mfa Paris 1557 FEC-A 192 non protege mgs (BvR)
15919 Unid: 0928 49 tone modem (620Hz pilot) (MC)
15920 CFH: Canadian Forces, Halifax 1453 RTTY 75bd/850 "naws de cfh zkr f1 ..." (MC) CFH: CF HALIFAX NS, CAN 1354 RTTY 75/850 NAWS DE CFH ZKR F1 ... + KC KC/6 DE CFH R 10 R 10 K (SS)
15937.7 Italian Diplo/Mil, loc?? 0658 FSK 1200bd UNID System (MC)
15942 OLZ88: MFA Prague 0801 RTTY 100/400 diplo tfc (DG)
15961.7 Unid: 1100 ARQ-E3 192 idle. (BvR) [RFLI FF Fort de France, Martinique - LOGS]
RFLI: FF Fort de France 1409 ARQ-E3 /102 MRT RQ sig. (RM)
15984.7 Unid: 1354 VFT: 2ch of 100bd/170 FSK UNID System, ALE? (MC)
15985.7 Unid: 1355 VFT: 2ch of 100bd/170 FSK UNID System, ALE? (MC)
16006.7 Egyptian Embassy, Harare 1610 ARQ ATU-80 MSGs "jg rfkfs" to MFA Cairo (MC)
16012 MFA MOSCOW 0223 PICOLLO 33 TONES unknown system (EW) [33 tone piccolo is Russian CROWD36 - LOGS]
16017.5 Unid: 1323 Piccolo-12, crypto (MC)
16017.7 EGY. EMB. Dar es Salaam 1509 ARQ atu-80 msgs (DG)
16019.5 Unid 1737 ARQ idling until 1800 (RM)
16021.7 Egyptian MFA, Cairo 1448 ARQ ATU-80 MSGs to various embassies (MC)
16035 9VF252: Kyodo j 1525 FAX 60/576 nx, at 1632 txt. (BvR)
9VF252: Kyodo Singapore 1730 FAX 60/576 wx faxes (DG)
16066.5 ISX: ANSA News, Rome 1618 RTTY 50bd/200 Baudot, NX in FF (MC)
16067.7 Egyptian diplo 1605 ARQ diplo in AA (RM)
16072 Polish Embassy, Pretoria 1224 POL-ARQ 100bd/200 Claris MSGs to MFA marked "m:pretoria" (MC)
16077.5 FDY: FAF Orleans 1535 RTTY 50/400 testing (DG) FDY: FAF Orleans 1754 RTTY 50/400 fdy's "test de fdy" le bricks 10C ry (RM)
16077.7 RFFA: MoD Paris 1527 ARQ-E3 192/400 idling (DG)
16087.7 Unid: 1108 ARQ-E3 100 idle. (BvR) [RFVI FF Le Port, REU - LOGS]
16100.5 Unid: 0641 FEC-A 192 code 3 says FEC-A doesn't sound right to me. no tfc off 657 no id. (EW)
16101 HBD20: MFA Berne 0812 ARQ 100/170 5FG'S (DG)
16109 SNN299: MFA Warsaw 1515 POL-ARQ 100/250 diplo tfc (DG)
16111 HBD20: MFA Berne 0725 ARQ 5FG'S (DG)
16112 Russian Navy, loc?? 0825 36-50 50bd/250 tfc (MC)
16113.7 Egyptian MFA, Cairo 1341 ARQ ATU-80 MSGs to Embassy Bonn (yphkg y--lg) (MC)
16118 Unid 1820 ARQ idling until 1825 (RM) (Swiss Emb, Khartoum, Sudan often logged here -LOGS)
16120 HBD20: MFA Berne 1636 ARQ 5LG (RM)
16133 French Diplo, loc?? 1154 ARQ6-90 200bd/400 5LGs very weak ended "qru ar" (MC) P6Z: MFA Paris 0820 ARQ6-90 200/400 w/5LG's to Riyadh (ML)
16135 KVM70: Honolulu Meteo 1832 FAX 120/576 wxsat foto (RM)
16153 Unid: 0653 RTTY 75 11177 00098 07625 02623 THEN 5 L/G (EW) (Brotherhood to DKR -LOGS)
16154 Unid 1521 RTTY 75/170. w/enc (RM)
16155 MFA MOSCOW 0623 PICOLLO 33 TONES unknown system (EW) [see 16012 - LOGS]
16171.7 Egyptian Embassy, Rome 0746 ARQ ATU-80 MSGs fm "bostan roma" to MFA Cairo (MC)
16185 CLP1: MFA Havana 1813 RTTY 50/425 w/5FG to Hanoi (RM)
16193.7 RFQP FF Jibuti 1539 ARQ-M2 200 idle (BvR)
16171.7 Egyptian Embassy, Rome 0746 ARQ ATU-80 MSGs fm "bostan roma" to MFA Cairo (MC)
16185 CLP1: MFA Havana 1813 RTTY 50/425 w/5FG to Hanoi (RM)
16193.7 RFQP FF Jibuti 1539 ARQ-M2 200 idle (BvR)
16205 MKK: RAF London 1301 VFT two channel piccolo vft on usb. (DW)
16205.5 MKK: RAF London 1303 VFT PICC//16205.510. chan 1 (eng order wire) in

vft. idle. (DW)
16205.9 MKK: RAF London 1302 VFT PICC//16205.910. chan 2 in vft. idle. (DW)
16207 DOR***: Bulgarian MFA, Sofia 1421 RTTY 75bd/500 Political NX in Bulgarian (MC)
16213 DKAR: Fr emb Dakar 1730 ARQ6-90 200 5 fgs (BvR) DKAR***: French E, Dakar 0937 ARQ6-90 200bd/400 5LGs (MC)
16226.7 Unid 2057 ARQ-E3 48 idle for sev. hrs (RM) (RFFXI with baud change? -LOGS)
16244 CLP1: MFA Havana 2104 RTTY 50/425 prensaminrex to CLP55 (RM)
16245 W3S: French Emb Islamabad PAK 0700 FEC-A 192/850 w/5LG's. (ML2)
16252 TJN: French Emb Beijing CHN 0920 FEC-A 192/850 w/5LG's. (ML2)
16255 Unid: SOUD Station,??? 0728 RTTY 100bd/500 5LGs (MC)
16260 P6Z: MFA Paris 0931 FEC-A 192/400 diplo tfc (DG)
16261.7 MFA Cairo 0930 ARQ w/unid embassy tfc (weak) (ANEE)
16261.9 Unid 2019 ARQ-E3/192 idling until 2030. MFA Paris? (RM) (RFTJD Libreville has been logged here in this mode/baud before -LOGS)
16271.7 Unid: 0552 Unid 200 sounds like vft grp. ACF=64. six peaks on code 3 (EW)
16302 DFZG***: Serbian MFA, Belgrade 1424 RTTY 75bd/400 crypto after "xjxjxjxj..." (MC)
16318.5 7RQ20: Algerian MFA, Algiers 1433 Coquelet-8 26.7bd Operator QSLs for Naimey, Dakar etc embassies (MC)
16318.7 Egyptian MFA, Cairo 1127 ARQ Idle in IRS mode (MC)
MFA Cairo, Egypt 0752 ARQ ATU-80 tfc. (PB)
16319.5 IPG20: Italian MFA, Rome 1248 ARQ 5LGs to Middle Eastern embassies. (MC)
16339.5 IPG20: Italian MFA, Rome 1049 ARQ 5LGs to Embassies Tripoli, Tunis, Rabat, Muscat. (MC)
16342.1 MFA Bucharest, Romania 0810 ROU-FEC 164.5/396 Tfc to Abu Dhabi. (PB) (V5G -LOGS)
16346.7 Egyptian MFA, Cairo 0836 ARQ ATU-80 MSGs to Embassy Rome (selcal "XBVP") (MC) MFA Cairo, Egypt 0818 ARQ IRS mode (PB)
16355 OLZ88: MFA Prague 0703 RTTY 100/400 diplo tfc (DG)
16356.8 Unid: 0732 PSK 2400bps UNID System (MC)
16386.7 Pakistani Embassy, Brussels 1356 TWINPLEX-1w 100bd/140 5LGs to MFA Islamabad ending "parep". ASP32: Pakistani MFA, Islamabad 1137 TWINPLEX-1n 100bd selcal "KMEU" MSGs in p/lang (MC)
16428 SNN299: Polish MFA, Warsaw 1757 POL-ARQ 100bd/250 idle with Beta and RQs (MC)
16683.5 UYZX: Viktor Lyagin 0034 ARQ tfc for Singapore. (AB2)
16684.5 J4VE: M/V ROKOS VERGOTTIS 0300 ARQ w/tlx eta cristobal. login 16761 j4ve. (WT)
16685.5 ELEO9: DSR Rostock 1905 ARQ tfc via WLO. OVTX2: Kis Sobye 1506 ARQ tfc for Lyngby & Copenhagen. (AB2)
16687 P3JW4: M/V Georgios P. 1550 ARQ w/tlx for noon report.(RB)
16688 EQPD: M/V Iran Mamzeh 1025 ARQ w/posn. (TD2)
16688.5 IBJG: M/V Orinoco 1437 ARQ w/tlx for ETA Bocachica, login 20844 IBJG, ex-Delmas Kourou? D5KF: M/V Tropical Sun 1551 ARQ w/log-in for msgs.(RB)
16689.5 ZCBB7: Chiquita Jean 0014 ARQ OBS msg. (AB2) 9HUO3: M/V KEMEROVO 0022 ARQ wkg kph w/ new service msg. panama to seattle. (WT)
16691.5 EQPI: M/V Iran Torab 1345 ARQ w/ETA Bandar Khomeini for crew relief. (TD2) USPV: M/V MEKHANK ANISKIN 0135 ARQ w/tlx. login 67839 uspv. (WT)
16693 ELPC2: CCNI Austral 2022 ARQ AMVER/PR 09.22S/143.39W, selcall 24520. (AB2)
16693.5 ELGL9: Nedloyd Curacao 1943 ARQ w/AMVER/PR, ex-SeaLand Panama? (RB)
16694 ELAJ6: Rosina Topic 2307 ARQ ETA Portland pilot station May 21, selcall 24487. 3FVM4: Ansac Orient 2333 ARQ AMVER msg. (AB2)
16695.5 ATSZ: M/V Ratna Vandana 1430 ARQ w/tfc for Calcutta via Singapore Radio. (TD2)
16696.5 C6LP4: Prince of Wales 1536 ARQ AMVER/PR 51.21N/03.19W. (AB2)
DZSA: M/V Luminous Ace 1634 ARQ w/AMVER/SP from Port-au-Prince, Haiti. (RB)
16699.5 BOHE: Teng Fei Hai 0226 ARQ tlx's for Beijing & Tianjin, selcall 19853. (AB2) C6LX6: M/V Doryforos 1602 ARQ w/tlx in unid language. (RB)
16701.5 YLCZ: TKH Akademikis Botszhars 2118 ARQ (reefer) w/crew TG's, is

ex-UJCP. (RB)
16702 D5DI: M/V Acadia Forest 1652 ARQ (dry goods cargo ship) w/tlx to Marco Singapore re crew arrangements upon berthing Rotterdam. (RB)
16703 WFKW: M/T Overseas New Orleans 1812 ARQ U.S.product tanker, w/AMVER/PR. (RB)
16705 TCPO: Ayane 1603 ARQ tfc in Turkish. (AB2) PPUT: M/V Frotargentina 2014 ARQ w/tlx re ETA Port Motauk, login 58309 PPUT.(RB)
16706 UTXP: TKH KOMPOZITOR DARGOMYZHSKIY 0834 ARQ admin fm Km Chechnyev to USU. URGA: TKH TUSHINO 0835 ARQ msg to USU. (HOOD) UTJU: Unid vsl 1830 ARQ w/tlx re vsl bound Vancouver, fol by Squamish BC, & Ishinomaki, BC, login 67974 UTJU...ID? (RB)
16707 3FCY3: TN Federica 1425 ARQ wkg Berne Radio w/tech report. (TD2)
16707.5 SYKV: M/V Karoline 1000 ARQ w/routine report for entry U.S. waters (off California). (TD2)
16708 UVCD: Berezovo 2340 ARQ tfc selcall 55287. (AB2)
16711 ELRL8: Erati 1556 ARQ outbound New Orleans via SW Pass, selcall 24810 "ERAT". (AB2)
16711.5 9HHO3: MT APSHERON 0842 ARQ msg in EE to Kenya via SAB. (HOOD) C6JF9: M/T Trans Argo 0730 ARQ w/ETA Forcados Oil Terminal. (TD2) P3CF6: M/V AGIA THALASSINI I 1745 ARQ w/tlx, still discharging at vera cruz. (WT)
16715 TCXS: M/V MARINE EXPRESS 1443 ARQ msg from Capt Turali to FIDES Istanbul login 29105 TCXS. V2CH: M/V GRACECHURCH HARP 1237 ARQ eta for Ashdod, login 26929 V2CH. (HOOD)
16716.5 UPSQ: TK VLADIMIR KOKKINAKI 0738 ARQ msgs fm Km Savchenko to UFN. UMDL: TK KUZBASS 0828 ARQ crew TG UFN. (HOOD) UICJ: TK Pobeda 2024 ARQ w/SVC tfc for Novorossiysk Radio, login 54834 UICJ.(RB)
16737.5 VRUJ: Encourager 0337 CW clg JNA. (AB2)
16770 9HLP3: M/V Mediteran Frigo 1400 ARQ w/posn. (TD2)
16780.5 UNUO: TKH Marshal Grechko 1400 ARQ w/ETA Tarragona. (TD2)
16786.5 URJA: TKH STEPAN ARTEMENKO 1418 RTTY 50/170 psn rpt to UUI. (HOOD)
16787.5 UNMJ: BATM VALERIY DZHAPARIDZE 1558 RTTY 50/170 admin from Km Serenkov to UIW (UIW answering in Cw on 8555.5). (HOOD)
16788.5 ENQD: TKH SLAVYANSK 1239 RTTY 50/170 admin from Km Mikheev to UUI. (HOOD)
16798.5 EOLE: TR TAGANROGSKIY ZALIV 1642 RTTY 50/170 admin from Km Ageev to URL. (HOOD) UBKT: ST Vosrozhdenie 1515 RTTY 50/170 wkg Kerch Radio w/crew TG's. (TD2)
16799.5 EUHG: CHUKOTSKIY BEREG 1239 RTTY 50/170 crew TGs to Vladivostok. UUZU: TKH VEGA 1237 RTTY 50/170 msg in EE to Amsterdam & relaying for UVZZ: TKH SIRIUS to UUI. (HOOD) UYYC: BATM Anatoliy Gankevich 1636 RTTY 50/170 crew TG's (SVS/MRH) to Sevastopol rdo. (RB)
16800.5 UYDV: RKTS Mor'e Sodruzhestv 1654 RTTY in 50/170 crew TG's to Sevastopol. (RB)
16802.5 UQTD: BKRT Nataliya Kovova 1448 RTTY in 50/170 crew TG's to Sevastopol Radio (SVS/MRH).(RB)
16803 YLFS: BATM Kapitan Jedemskis 1514 RTTY in 50/170 admin TG's to Riga using name & hull#/ID LZ-6119, also sends admin tfc for YLEK, BMRT Karlis Bude as BMRT 490 from master KMD Shcherbina and YLFR, TSM Milgravis. UWKI: TSM Karacharovo 1632 RTTY in 50/170 RYRY/DE to UIW (K-grad) & into admin TG's from master KM Andreev to same. (RB)
16831.5 FFT: ST LYS RADIO 0839 ARQ msg in GG to DCDP: BACO LINER 1 (Sel 40059). (HOOD)
16838.5 9AR: Reyka radio 1613 ARQ tlf tfc (BvR)
16839.5 UFN: NOVOROSSIYSK (NOVOSHIP) RADIO 0746 ARQ msg to UERJ: TK PETR SCHMIDT for Km Kvitka from Cyprus. (HOOD)
16851.5 SAB891: Goeteborg Radio 1741 FEC mib (DG)
16971 JJC: Tokyo radio 1128 FAX 60/576 Kyodo news (BvR)
17085 USU: MARIUPOL (AZOV SHIPPING CO) RADIO 1454 RTTY 50/170 tfc in EE to UZZT: TKH OGNAN NAYDOV for Km Kadubinskov. (HOOD)
17134 LYK: Klaipeda Radio 1533 RTTY 50/200 nx (DG)
17141 UFN: NOVOROSSIYSK (NOVOSHIP) RADIO 1428 RTTY 50/170 crew TGs to 9HIQ3: T/K BREGEN (vsl is Russian crewed, Maltese regd, Monaco owned). NOVOROSSIYSK (NOVOSHIP) RADIO 1514 CW crew TGs to ELNX5: TK TROMSO RELIANCE. (HOOD)
17398 'TNNR' French Emb Antananarivo MDG 0740 ARQ6-90 200/400 w/5LG's to Paris (ML2)
17513 Russian Diplo, loc?? 0733 CROWD-36, in ack mode (MC)

17961.7 Egyptian MFA, Cairo 1250 ARQ ATU-80 MSGs relaying from Rome (MC)
18016.7 MFA Cairo 0900 ARQ wkg Embassy Paris til 1000 (ANEE)
Egyptian MFA, Cairo 1254 ARQ ATU-80 MSGs (MC)
18031 CLP: 1435 RTTY 50/425 unid. Cuban diplo w/minrex tfc. To CW at 1444. (RM)
18053.6 Egyptian MFA, Cairo 1025 ARQ 100bd/140 ATU-80 MSGs to various embassies (MC)
18211.7 MFA Cairo 1315 ARQ tfc til 1400 (ANEE)
18221.7 Egyptian Emb Riyadh ARS 0850 ARQ w/5LG's. (ML2)
18242 ZRO4: Pretoria Met 0650 RTTY 75/400 met tfc. (DW)
18254 SUU: Cairo Meteo, Egypt 1219 RTTY 100bd/850 AAXX WX for Tunisian Airports (MC)
18255 MAP Rabat 1301 RTTY 50/400 press in EE, spurious emission? (DW)
18261 GFE24: Bracknell Meteo 1459 FAX 120/576 wx chart (RM)
18265 MAP Rabat 1304 RTTY 50/400 press in EE. (DW)
18269 HBD20: MFA The Hague, Holland 1055 ARQ 5-letter groups; msg ended "HBD20/7" (JD2)
18275 MAP Rabat 1307 RTTY 50/400 press in english. spurious emission? (DW)
CNM: MAP News, Rabat 1438 RTTY 50bd/400 NX in EE (MC)
18280 Russian Mil, loc?? 1439 81-81 81bd/200 tfc (MC)
18285 MAP Rabat 1310 RTTY 50/400 press in english - spurious emission? (DW)
18294.4 DMK: German MFA, Bonn 0843 RS-ARQ 240bd 8 tone (ACF=59) in IRS mode (MC)
18295 MAP Rabat 1312 RTTY 50/400 press in EE, spurious emission? (DW)
18300 OLZ88: MFA Prague 1132 RTTY 100/400 diplo tfc (DG) OMZ88: Czech MFA, Prague 1148 RTTY 100bd/400 MSGs to OMZ87 (Embassy Tunis) (MC)
18305 MAP Rabat 1326 RTTY 50/400 press in EE, spurious emission? (DW)
18315 MAP Rabat 1329 RTTY 50/400 press in EE, spurious emission ? (DW)
18320 OLZ88: MFA Prague 0705 RTTY 100/400 czech p/l ?. poor copy. (DW)
18386.5 5AF: Tripoli Air 1525 RTTY 50/350 testing (DG)
18410.7 Indonesian Emb Kabul AFG 0850 RTTY 50/425 w/tfc to Jakarta.(ML2)
18461.6 PCW1: Mfa Den Haag 1709 TWINPLEX 100 (F7B4) 5 fgs (BvR)
18496.1 CNM80X11: MAP Rabat 1337 RTTY 50/400 english press. (DW)
18503.7 RFFA: MoD Paris 1550 ARQ-E3 192/400 testing (DG)
18527 NDJA***: French Embassy, N'Djamena 1015 ARQ6-90 200bd/400 5LGs "sv dipl de ndja" (MC)
18597.5 MFA Madrid 0957 TWINPLEX 100 tfc on offline (10 LG's) encryption signed ministerio asuntos exteriores. tfc to beirut & harare. tfc in SS p/l. (DW) EAE220: Spanish MFA, Madrid 1547 TWINPLEX-1w 100bd/140 10LGs to embassy Nouakchott (MC) Unid 1907 ARQ. Spanish emb. w/enc (RM)
18648.5 SOT265B: PAP NX Warsaw 1405 FEC nx (DG) SOT265B: PAP News, Warsaw 1442 FEC NX in Polish (SBRS mode) (MC)
18667.9 Egyptian Embassy, loc?? 1316 ARQ ATU-80 to MFA Cairo (MC)
18688 SAM71: Swedish Emb Dar es Salaam TZA 0740 SWED-ARQ w/tfc for Stockholm (ML2)
18704.2 DGS70H5: PIAB Bonn 0914 FEC-A 96/400 press in german. (DW)
18721.7 MFA Cairo 1330 ARQ African embassies net (ANEE)
18746.5 DUTCH EMB? 0931 TWINPLEX 100 -255/-85/85/255. f7b-4. in irs mode (DW)
18751.7 Egyptian MFA, Cairo 1018 ARQ Idle in IRS mode (MC)
18800 MFA Phillipines 0530 FEC EE nx items (EW)
18904 MFA Bratislava? 0900 IRA-ARQ 300.3 idle (ANEE)
18993.5 SPW: Warsaw Radio, Poland 1301 FEC Traffic list "tfc lista" (MC)
19048.7 RFFA: MoD Paris 1543 ARQ-E3 192/400 idling (DG)
19060.5 Unid 1507 RTTY 75/530 unid. weak sig poor copy (RM)
19087.9 MFA Oslo 0830 TWINPLEX 100 w/tfc to European locs til 1300 (ANEE)
19141.3 7RX70: Algerian Embassy, Naimey 1454 Coquelet-8 26.7bd MSGs to MFA in FF header "vci off naimey" (MC)
19171.1 CNM85X11: MAP NX Rabat 1402 RTTY 50/500 nx (DG)
CNM85/X11: MAP News, Rabat 1021 RTTY 50bd/400 NX in FF (MC)
19218 MFA Stockholm 0830 SWED-ARQ 100 tfc w/Embassy Pretoria, admin msgs. (ANEE)
19418.7 RFFA: MoD Paris 1039 ARQ-E3 192/400 idling (DG)
20009.2 CLP1: MFA Havana 1752 RTTY 50/500 prensaminrex/EE (RM)
20336.8 Unid 1800 RTTY 75/850. w/enc (RM)
20450.3 CLP1 MFA, Havana, Cuba 1538 RTTY in 50/225 Minrex tfc to Nigeria, at 1548 w/Embacuba Nigeria economics nx. (RB)
20730 UNHCR Geneva 0947 PACTOR 200/200 tfc (DG)

=MARITIME=

2182 Mv Saint Luck 1742 USB clg Humber r qsy Sierra. GGNV: Mv Arco Avon 1748 USB clg Humber radio qsy chnl Romeo. Clyde cg 0418 USB clg Stonoway cg for radiocheck. (BvR)
2204 PADH: Hrms Jan van Brakel 1258 USB clg Noordwijk radio. PAEO: Hrms Willemstad 1302 USB ww Noordwijk radio. PBV: Noordwijk radio 1313 USB clg Hrms Buizerd. PADE: HRMS Tromp 1115 USB clg Noordwijk radio req pp (BvR)
2311 Arklow Shipping Net 2325 USB quite active right round the clock, at 2325Z the "Arklow Brook" is clg the "Asgard", I think the "Asgard" is a training sailing ship. The Arklow Brook would be a coaster/ freighter. (ANUK)
2614 DAN: Norddeich Radio, Germany 2022 USB Wx forecast in GG. (PB)
3730 LYL: KLAIPEDA FISHERIES RADIO 2116 CW w/ID & QSX 8346.5/12423.5/ 6292.5/2516. (HOOD)
4149 WPE: Tug Communications, 0517 USB Jacksonville, Fl, wkg tug Ranger for posn report. (RB)
4249.5 WLO: Mobile Al 1325 CW de wlo obs amvers qsx. (RT2)
4294 WNU31: Slidell, La 1329 CW w/qsx 4/6/8/12/16/22 amvers, obs. (RT2)
5225 OM w/New Zealand accent 0925 USB pp talking about yachting (AW)
6215 ZLM: Taupo radio relaying a MAYDAY call for the German vessel "Taurus". Last seen at 34S and 174E (AW)
6331.1 UDB2: Krasnovodsk 1010 CW CQ (EW)
6380 UCW4/RJFY: ST PETERSBURG RADIO (N.W SHIPPING CO) 0810 CW tfc list and QSW 4223/6380/8505/12765.Same at 1732 CW msgs for following:- UNOX: TKH LADOGA 9, UHPP TKH LADOGA 107, USUF: TKH SORMOVSKIY 3057, UAPT TKH VOLGOBALT 187 (this one is ex UNKH). all these are sea-river cargo vessels. (HOOD)
6415 7TF4: Boufarik Radio 0651 CW CQ mkr. (DW2)
6432 UAI3: Nakhodka 1130 CW CQ (EW)
6490 UJE: NIZHNIY NOVGOROD RADIO 0720 CW to UUYX: TK VOLGONEFT 160. (HOOD)
6516 Auckland Cruising Club: 0637 USB yacht club stn receiving various posn reports & chit-chat. (RW)
8034 Fisherman 1720 USB NJ accented fishermen w/illegal chat, give posn by referencing known phone numbers. (RB)
8110 Unid yachts 1145 USB chatting about what regattas they'd attended and will attend (TB)
8120 Unid boats 1201 USB w/heavy Caribbean accents w/EE comms (TB)
8190 WBQ4700: S/V Pywacket 0033 USB wkg ? vsl. small talk (CM)
8207 C6LW2: M/S Regal Empress 2346 USB Royal Caribbean Cruise Lines, 23,000 DWT cruiseship, clg/wkg WOM for R/T tfc. VRUE8: Tai Yuen 9242 USB wkg KMI (on 8728) for R/T tfc.(RB)
8222 Canberra control 0925 USB w/radio check to "Mike Echo Kilo" Also wkg w/HMAS Trevally. Later Darwin wkg Launceston (Tasmania) ctl. til 0942 (AW)
8240 J8NY: Unid 0628 USB clg NMN. No joy (DW2)
8294 M/V Gladiator: 0525 USB wkg ? San Juan with wx and posn rpt. (c/s is WBN5982 & was probably wkg WPE -LOGS) WHU959: North Atlantic Enterprises, Kennebunk, ME 0256 USB clg S/V Sea Quest. no joy. WHU959: North Atlantic Enterprises 0100 USB wkg S/V Norma Jean w/ pp. WBN3011: 0133 USB wkg Jacksonville Pilot Station. Checking tfc. (CM) (the tug 'Pilot' -LOGS)
8346.5 LYHA: BMRT DZUKIJA 0750 CW admin to LYL KLAIPEDA (Fisheries Radio). (HOOD)
8358 ELPY7: M/V HUA CHANG 1046 CW psn rpt to Shanghai via PCH. (HOOD)
8373 YQGB: M/V TULCEA 0718 CW msg to East Charterers for eta Braila. (HOOD)
8444.5 KFS: San Francisco 1113 CW CQ (EW)
8470 XFL Mazatlan Radio, MEX 0448 CW w/CQ marker (RB)
8472 WLO Mobile Marine Radio 0446 CW w/CQ, QSX marker.(RB)
8483.5 DAN: Norddeich Radio 0215 CW CQ marker. (DW2) DAN Norddeich Rdo, D 0440 CW w/V & CQ marker.(RB)
8492 PPR Rio de Janeiro Radio 0450 CW Brazil, w/QSX marker. (RB)
8496 CLA: Havana Radio 0548 CW CQ mkr.(DW2) CLA: Havana R 1109 CW. CQ/QSX/QSW mkr (RM)
8505 UFZ: Vladivostok 1138 CW CQ (EW)
8515 5AT: Tripoli Radio 0550 CW CQ mkr.(DW2)

8516 GKC4: Portishead Radio 1949 CW CQ (DG)
8522.5 FFL2/4/6: Saint Lyons R France CW (St Lys Radio - LOGS) (RT2)
FFL4: St.Lys Radio, F 0452 CW w/CQ/QSX marker.(RB)
8530 SVA4: Athens radio 0900 FAX 120/576 wx chrt, very poor (BvR)
8532 LZW42 Varna Radio, BUL 0300 CW w/traffic list marker. (RB)
8534 WLO: Mobile Al CW AMVER qsx 4/6/8/12/16/22MHz (RT2)
WLO: Mobile Marine Radio, AL, US 0454 CW w/QSX marker.(RB)
8550 UFL: Vladivostok Radio 0557 Navigational Warnings in CW.
8558.5 KFS: Palo Alto Radio, Ca, US 0455 CW w/wx. (RB)
8570 WNU31 Slidell Radio, La, US 0456 CW w/tfc list. (RB)
8573 CLA: Havana R 1650 CW. CQ/QSW mkr (RM)
8574 LG(W/X/B...): Rogaland Radio 0607 CW CQ mkr. (DW2)
8575 UGC: St. Petersburg Radio 1934 CW CQ (DG)
8589 HPP: Panama Intelmar Radio, PAN 0500 CW w/V, QSX marker. (RB)
8598 OXZ4: Lyngby Radio 1928 CW CQ (DG)
OXZ4: Lyngby Radio 0201 CW CQ channel marker. (DW2)
8607.6 HLJ: Seoul 1219 CW CQ (EW)
8618 KPH: San Francisco R, Ca, US 0505 CW w/tfc list. (RB)
8620 USU: Mariupol Radio 1921 CW CQ (DG)
8622 PCH41: Scheveningen Radio 1856 CW CQ (DG)
8630 WCC: Chatham R, Ma 1655 CW tfc list 1702: marine forecast (RM)
8634 PPR: Rio de Janeiro Radio 2157 CW CQ (DG)
8635 UTQ: Kiev Radio 1805 CW CQ (DG) UTQ7: KIEV RADIO 1805 CW msg to EMMO: S/S SAPFIR (salvage tug, ex UGWL) being relayed for UYUI: TKH BELA KUN (from Radio Officer Murachkin). (HOOD)
8638.5 DAM: Norddeich Radio 0156/0636 CW chan mkr (DW2)
8642 KPH: San Francisco R, Ca, US 0515 CW w/wx. (RB)
8649.5 IAR: Rome Radio, Italy 0435 CW w/V marker. (RB)
8665 XSG: Shanghi Radio 1800 CW CQ (DG)
8682 EAD3: Madrid Radio 0639 CW chan mkr. (DW2)
EAD3: Madrid Radio, Spain 0518 CW w/QSX marker.(RB)
8690 ZSC: 0616 CW - CQ marker (AM2)
8694 PJC: Willemst Radio 0642 CW CQ mkr. (DW2) (correct name is suppose to be Curraco Radio -LOGS)
8698 7TF6: Boufarik Radio, ALG 0519 CW w/CQ, QSX marker.(RB)
8700 9AR: Rijeka Radio 2146 CW CQ (DG)
8704 SVB4: Athens Coastal Radio 2142 CW CQ (DG)
8704.5 UGW: Novorossiysk Radio 2139 CW CQ (DG)
8743 KMI: AT&T Coast Station, Point Reyes, Ca, US 0407 USB wkg vsl Mister B for R/T tfc.(RB)
12254 6MPW Haenam 502 2217 USB clg/wkg WOM for R/T tfc to S. Korea.(RB)
12353 WBO3345 M/V Navigator 1709 ARQ Crowley Maritime tug wkg unid, poss WPE, re part needed for repair.(RB)
12447 UFTC: TKH SORMOVSKIY 6 1808 CW msg to UBO3 Petrozavodsk Radio. (HOOD)
12626.5 UON: BAKU (CASPIAN SHIPPING CO) RADIO 1013 CW tfc to 4JBZ: TKH MAHMUD RAGIMOV. (HOOD)
12660.5 UGW: NOVOROSSIYSK FISHERIES RADIO 1510 CW tfc list and QSW 12660.5/16698. (HOOD)
12662 7TF8: Boufarik Radio 1824 CW marker "cq de 7tf8 qsx 12mhz 12551/12551,5/12552/12553,5 khz tksk" (DW)
12671.5 YLQ: RIGA RADIO 0720 CW tfc, ID on sign-off. (HOOD)
12687 OFJ32: Helsinki Radio. Finland 1328 CW w/OFJ qsx (PB)
12698 ZSC: Capetown Radio 0704 CW CQ (EW)
12704.5 WLO: Mobile Radio 2317 CW CQ (DG)
12711 USU: MARIUPOL RADIO (AZOV SHIPPING CO) 1217 CW tfc for 9HBY4: MV DUBAI GLORY. (HOOD)
12730 UHS: MURMANSK RADIO 1300 CW tfc list for UHY/UHS with QSW/QSX 452.5/468, 8690/8367, 12730/12551. (HOOD)
12735 URL: SEVASTOPOL FISHERIES RADIO 1827 CW tfc for UWFY: TN TARKHANKUT & UYKP: TR IVAN PRIBYLSKIY (ex UNOG). (HOOD)
12736.5 TAH: Istanbul Radio 2053 CW CQ (DG)
12771 UHP5: ST PETERSBURG RADIO 1207 CW msg to V3RE7:T/H LIDIYA. This station appears to operate for sea/river vsls, mostly owned by NEVA RIVER SHIPPING and by ENNEK CO. (HOOD)
12856 XSG: Shanghai Radio, CHN 1318 CW w/cq de XSG (PB)
12940 LZW53: Varna Radio 1713 CW CQ (DG)
12965 USO5: IZMAIL RADIO (UKRAINIAN DANUBE SHIPPING CO) 0656 CW tfc for Km Piskunov of TKH TATARBUNARY (UZAR). (HOOD)

12973 UIW: KALININGRAD RADIO 1310 CW tfc to YLGD: RONU SALU. (HOOD)
13011 IAR: Rome Radio 2031 CW CQ (DG)
13023.5 D3E62: Luanda Radio 1637 CW CQ (DG)
13083 KMI: AT&T Coast Station, Point Reyes, Ca, US 0437 USB concluding R/T tfc w/vsl WAQ7819.(RB)
13161 KMI: AT&T Coast Station, Point Reyes, Ca, US 0141 USB concluding R/T tfc w/vsl SZ5946, & wkg vsl Destiney, WBA7038.(RB)
16675 DSAE4: Venus 2341 CW AMVER/PR 07.56N/160.52W. (AB2)
16914.5 CBV: Valparaiso Radio 1455 CW marker "vvv de cbv qsx 8 12 16 and 22 mhz". (DW)
16916.5 WSC: Tuckerton Radio 1500 CW marker "cq de wsc qsx 6 8 12 16 22 mhz obs? amver? k" (DW)
16918 PPJ: Juncao Radio 1503 CW marker "cq de ppj qsx ch 4/5 k and 22 mhz qsw 22496 khz qsx ch 2/3 k". (DW)
16932 7TF10: Boufarik Radio 1511 CW marker "cq de 7tf10 qsx 16mhz 16735/1616735,5/16736/16738 khz tksk". (DW)
16933.2 WCC: Chatham Radio 1515 CW marker "vvv de wcc qsx 4 6 8 12 16 22 mhz de wcc". (DW)
17013 5BA: Nicosia Radio 1548 CW marker "cq de 5ba on 8623/17013 khz qtc nil qru? qsx 8/16 mhz common channels de 5ba". (DW)
17021.6 TAH: Istanbul Radio 1552 CW marker "cq de tah qsx 4 8 12 and 16 mhz ch 3/4/8 k" (DW)
17064.8 EDZ6: Madrid Radio 1559 CW marker "vvv de ead tfc list as" then "cq de ead =s/ga= traffic on hand 051600utc = then tfc list = next tfc list will be at 1800utc= now qsx on 8 12 16 and 22 mhz cg ar k" then marker. (DW)
17105 IRM: Cirm Rome 1748 CW marker "vvv irm free radio medical service & amver service on 8/16 mhz common k". (DW)
17113 GKB6: Portishead Radio 1752 CW marker "de gkb 2 3". (DW)
17141 NOVOROSSIYSK (NOVOSHIP) RADIO 1514 CW crew TGs to ELNX5: TK TROMSO RELIANCE. (HOOD)

=MILITARY=

18.1 RDL: 1340 CW "RDL RDL RDL <5FG's> K", alternating w/encrypted RTTY. (KB) (Russian Navy, Smolensk -LOGS)
18.2 VTX3: 1140 CW "VVV VVV VVV VTX3 VTX3 VTX3" (KB) (unid Indian Navy station -LOGS)
21.1 RDL: 0935 CW "RDL RDL RDL <5FG's> K", same as 18.1 (KB) (Russian Navy, Smolensk -LOGS)
2334.5 Link 11 Net 1 0500 USB w/TANFO, INDIA, IP, others, some w/British accents relaying track ID's in Link-11 coordination net probably related to U.S./British Combined Joint Task Force Exercise 96/ Exercise Purple Star 96 due to British voices hrd. (RB)
2799.5 FDG: FAF Bordeaux, F 2102 CW 15.7 wpm w/vvv de FDG ar (PB)
3032 Unid 0531 Strong data pulses on freq, but no voice id's. At 0533z, NIGHTWATCH 01 (female opr) clg PALACIAL w/no response (although there was a very weak station heard here on freq a half a minute later). (JH) NIGHTWATCH 01 0532 USB w/EAM, then clg/wkg ANDYGUMP on "W100", who was ok on the current "traffic". (RB)
3113 UNAMIOUS 0622 USB clg & raising a weak NIGHTWATCH 01. (JH)
3134 UNAMIOUS 0611 USB trying to work NIGHTWATCH 01. (JH)
3295 NIGHTWATCH 01 (female opr) 0450 USB wkg WAR46. UNAMIOUS 0613 USB trying to work NIGHTWATCH 01. (JH)
4035 AAA5DIL Army MARS, Dist.5 0131 USB as NCS, closing an Army MARS net. (RB)
4134 PAVX: HRMS Abraham Crijnssen 0508 USB (F-816) Royal Netherlands Navy 'Kortenaer'-class frigate, wkg NMN, USCG CAMSLANT Chesapeake, re RTTY tfc coordination. (RB)
4154.5 ICT: Taranto Naval, Italy 1800 USB working ships on the same frequency. (JD2) DRDR: FGS U-24 (S-173) 0055 USB clg/wkg DHJ59, Wilhelmshaven Naval, w/QSL for traffic sent. DRHL: FGS Rhein (A-513) 0131 USB clg/wkg DHJ59 re has RTTY tfc to send. (RB)
4372 7BM 0022 USB clg Giant Killer, no joy. (KS) GIANT KILLER: USN FACSFAC Va Capes 2108 USB clg 1XD, 1XD clg GK, no joy either, 1XD clg "any sta this net". (RB)
4443.5 Firefighters?: Tango 34, 51, & Site 10, 90 discussing approaching fire. "Big Lake" fire in Houston Alaska? (JJ) Alaskan fire comms or

mil? 1500 USB Words of "hill", Hummer leaking, water site... But then again they mention, "counterparts", "radio to radio".. I haven't heard them mention fire yet.. Some comms come in clear, others are in the mud. Comms from Sierra 80, Sierra 90, Sierra 10, & Juliet 88. (PP) (seems to be military, poss Nat'l Guard? -LOGS)
4468 Red Star stations 0149 USB CAP net???. (KW2) (Yes, Georgia CAP Wing -LOGS)
4472 CENTURION 1 1655 USB wkg Architect, req signal check. (SW2)
4495 UNAMIOUS 0608 USB w/26-character EAM (URXHWS...).UNAMIOUS then tried to work NIGHTWATCH 01 to see if he receive the traffic ok. At 0640z, UNAMIOUS clg NIGHTWATCH 01, after UNAMIOUS had rebroadcast the above EAM. Nothing heard. (JH)
4500 USAF MARS 0108 USB rgn 2 net (RM)
4517 USAF MARS 0109 USB rgn 3 net (RM)
4715 RAF VOLMET: 0139 USB aviation wx (good barometer of propagation). (KW2)
4721 H1G (female opr) 0643 USB wkg OKIE SAM (female opr) re something "enrt to NGU." It involved "601; 602; 605; and 608." (JH)
4742 IFN58 1652 USB wkg Architect, requested the actual at LQSA. (SW2)
5144.5 DZW: Unid Dutch mil 1742 USB abt rtty setup (BvR)
5320 NOQ: USCG Group Mobile, AL 0532 USB wkg Z1Z re station Venice (La) having their UTP at South pass at 0930. (RB)
5680 CG RESCUE MU: 1415 USB clg Kinloss resqu (BvR) Kinloss Rescue: RAF Kinloss, Scotland 0448 USB wkg Rescue 137, RAF Sea King helo from 202 sqd. (RB) RESCUE 169 1830 USB wkg Plymouth Rescue going to London Dulwich hospital ETA 2030 local. SRG 128 2054 USB wkg Plymouth Rescue for a ground signal check. (SW2)
5690 Irish Military SSB Net 1858 USB Stations EIYX, C253 & OA. EIYX will maintain a listening watch. (ANUK)
5696 CG 2107: HU-25A, 0500z, wkg CAMSLANT. CG 1704: HC-130H7, 0501, wkg HONOLULU COMSTA, rpt'd posn as 8 miles south of Barbers Point CGAS. CG 2126: 0325 USB HU-25A wkg CAMSLANT Chesapeake VA. (DW2) CAMSLANT 1245 USB wkg H6Z, request QSY to 3E4 in green. Stations returned to 5696 shortly thereafter, advising heavy RTTY QRM on 3E4. A check of 6234.5 here confirmed presence of RTTY signal. So, more evidence suggesting 3E4 = 6234.5. Then QSYd to odd 9889 instead (no channel designator mentioned for this one), both stations heard well there in "green" and "red" modes. (DC2) CG 6002: 0237 USB HH-60J clg CAMSLANT Chesapeake VA. No joy. CG 6017: 0658 USB HH-60J wkg CAMSLANT Chesapeake. Helo enrt homeplate. (DW2) Rescue 1503: 0112 USB wkg CAMSLANT Chesapeake.Flying over a vessel in distress.rescue 1503 spotted two survivor rafts & also stated they were flying on three engines. (DW3) CG Rescue 1503: 1420 USB wkg CAMSLANT Flt ops normal. Rescue 1504: 2339 USB wkg CAMSLANT Chesapeake pp B5 cmd center regarding possible evac of vessel via helo or find closest ship to vessel. (KW2) USCG San Juan 0159 USB wkg the vsl Jacksonville & patching them through to Camslant. Rescue 1712 was in contact with a ship in distress & req the vsl to help out. USCG ship was enrt but would take up to 2 hours to get there. (LB2) CG 2107 2031 USB reporting flight ops normal to CAMSLANT CHESAPEAKE. CAMSLANT CHESAPEAKE 2034 USB conducting a radio check w/CG RESCUE 6002 (MF2) Rescue 1712: 0145 USB (C-130) wkg CAMSLANT & GANTSEC (CG San Juan) re sailing vessel in trouble. MV Jacksonville also on freq since it was going to assistance of SV. USCGC Courageous enrt, will arrive in 12 hours. All sigs very strong esp. San Juan. Rescue 1501: 0106 USB w/posn report to CAMSLANT 0113-6010 w/posn report to Camslant 0114-6001 w/posn report to Comsec-Boston 0115-Helo 6002 w/posn report to Comsec Boston. Comsec had diff reading 6002. (MR2) CG 6038 HH-60 Jayhawk helo 0245 USB wkg NMN re securing their radio guard, are on final to AirSta Clearwater. RESCUE 6035 USCG HH-60J 0431 USB wkg NMN re pp/Miami Op's, the 35 is looking for a activated EPIRB & was req to do a 10 mile "Victor Sierra" (visual search) & att to locate vsls in the area to ck their equipment, then RTB. RESCUE 6005 USCG HH-60J 0441 USB wkg CAMSPAC re being diverted to 8547N/12147W for an EPIRB activation that came in from Group Monteray, also contact Group San Francisco on "Uniform" (UHF). AGAR 94 512th TW, Edwards AFB 0546 USB Ca wkg NMC, CAMSPAC Point Reyes w/numerous rdo ck's. NMO: USCG CommSta Honolulu 0556 USB wkg CG 1704 (HC-130H) w/rdo ck. RESCUE 1504

USCG HC-130 1402 USB wkg NMN, CAMSLANT Chesapeake w/pp D-5 Command who adv Group Fort Macon is diverting USCGC Aquidneck (WPB-1337) to the search area w/ETA of 1300 local, 1504 also passes info obtained from vsl in area of radio transmission hrd, unid SAR. NOM: USCG AirSta Miami, Fl 1621 USB wkg CG 2139 (HU-25A 'Guardian') w/maintenance items & request for chow from the galley upon arrival. (RB) USCG Rescue 2126 USB w/pp to District One Command center via Camslant Chesapeake ref flares sighted. (SF) CG RESCUE 6014 & RESCUE 6031 2000 USB wkg CAMSLANT Chesapeake. A/c were involved in SAROPS for ValuJet flight 592 crash near KMIA. (TT)

5700 NIGHTWATCH 01 0155 USB up w/WAR46 among others (JC5) NIGHTWATCH 01 0642 USB wkg LEGISLATE. RARENESS 1159 USB wkg NIGHTWATCH 01. WAR46 0430 USB clg NIGHTWATCH 01, w/no response. WAR46 0058 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 0146 USB w/26-character EAM string, taken from the 26-character string of the 0133/44z 20/20/26 character EAM set on the GHFS. NIGHTWATCH 01 apparently mangled the static characters of the preamble (TWO ROMEO instead of UNIFORM ROMEO), without correction. At 0155z, WAR46 wkg NIGHTWATCH 01. UNAMIOUS 0621 USB clg NIGHTWATCH 01, w/nothing heard. (JH)

5705 NOONTIME 1123 USB wkg NIGHTWATCH 01 on self-id'd Z-145 (Z-190 secondary,and unknown). NOONTIME enters the net. A station id'ing as NOONTIME had exited the net at 0131z. At 1239z, the freq lit up w/26-character EAM, trailing the GHFS xmsn of same. At 1240z, BROWBEAT calls NIGHTWATCH 01 "on ZULU 145", followed immediately by NOONTIME clg NIGHTWATCH 01 "on ZULU 145." I suspect that BROWBEAT was NOONTIME misid'ing himself, as there was no BROWBEAT in the net earlier or later than this time. At 1327z, the net moved to ZULU-205 (unk). (JH)

5717 NF456: 0210 USB Wkg Vancouver Military no joy with gnd party. 0213 Snake 316 wkg Vancouver rdo ck weak/readable Rescue 301: wkg Vancouver s/by for Halifax. Rescue 456 wkg Vancouver stndby for pp. Vancouver called Rescue 301 w/selcal no joy. Rescue 456 pp Rescue center 316 to do rescue. (KW2)

5800 WAR46 0451 USB clg/wkg NIGHTWATCH 01. At 0535z, PALACIAL wkg NIGHTWATCH 01 (unheard here.) THEOLOGY 0127 USB calls & works NIGHTWATCH 01. (JH) THEOLOGY 0126 wkg NW QSY S 307.(MJ)

5942 RMP: Kaliningrad Naval, Russia 1655 CW working ship RBGE (JD2)

6501 NMN: USCG CAMSLANT Chesapeake, Va, US 0037 USB wkg USCGC Venturous (WMEC-625) re relaying message. (RB)

6683 SMA 376 0353 USB wkg ANDREWS for wx... SAM 376 not readable w/ good sig from ANDREWS.... female operator heard on freq....LAJES? (JC5) Andrews 0214 USB clg Executive 1 Foxtrot for signal check...no reply heard. (MJ) EXECUTIVE 1 FOXTROT: 1610 USB wkg Andrews, E1F told Andy they were shutting down and would be back up at 230z & would use this freq as primary and F64 secondary.(MK) Navy 496 0102 USB wkg Andrews VIP w/rdo ck, bound Chicago/JFK, also gets pre-flight freqs for next leg of flight following day, probably BuNo 150496, CINCLANT's VP-3. (RB)

6693 Unid 0445 USB Two stations, one male opr & one female opr, w/mil voice comms. Heavily qrmed by telco "whale" artifact one to two khz up freq. Probable USN activity. (JH)

6712 ANDREWS 0630 USB w/a 26-character EAM (UR7PRF..) & a 20-character EAM (UR2YAU...) at ANDREWS' post 0600z h+30 "repeat" EAM xmsn time. (JH) SPAR 66: 1520 USB preflight check. COTAM 3962: 1525 USB Toulouse-Orleans. COTAM 3956: 1610 USB to Orleans. COTAM 3136: 1620 USB Toulouse-Villacoublay. COTAM 3766: 1630 USB Toulouse-Orleans. COTAM 3969: 1640 USB Toulouse-Orleans. COTAM 3503: 1520 USB Hyeres-Landivisiau.75 pax. COTAM 3079: 1235 USB Cazaux-Evreux. COTAM 3515: 1400 USB Orange-Venice.R.O.N. COTAM 3500: 1415 USB Istres-Solenzara, 87 pax, R.O.N. NATO 35A: 1415 USB calling Croughton, to Aviano. COTAM 3960: 1510 USB to Mont-de-Marsan,R.O.N. FAF 3710: 1500 USB to Evreux (JP2) Navy Flt 0511: 0256 USB wkg Andrews will maintain this freq. (KW2)

6719.4 HABITAT 0344 USB wkg R1B, then B2D wkg L8X. (JH) L6R 0030 USB reporting to HABITAT, "ops normal for L6R and B2D." (JJ) HABITAT: NAS Moffett Field, Ca or now Whidbey Island, WA? 0523 USB wkg Navy Line Maintenance re a Papa Uniform (Participating Unit) in the alligator (Link-11 net). (RB)

6730 RARENESS 1159 USB wkg NIGHTWATCH 01. ANDREWS 0459 USB wkg NIGHTWATCH 01 in voice & data. NIGHTWATCH net activity at 2102z. At 2303z, MILEPOST wkg NIGHTWATCH 01 and exiting the net. At 2331z, ANDREWS is up wkg a station that id's as "496" to ANDREWS, but as NAVY 511 during his pp's. At 2350z, NIGHTWATCH 01 up w/20-character EAM. NIGHTWATCH 01 0037 USB (USN trained) wkg PITSTOP. At 0234z, ANDYGUMP (w/an opr that did not use common netspeak in his comms) wkg NIGHTWATCH 01, telling NW01 that he would be out of the net until further notice. At 0346z, the freq was qrm'd by strong comms on 6728, but no id caught, & it was not repeated. Suspected MYSTIC STAR activity of ANDREWS. THEOLOGY 0126 USB wkg NIGHTWATCH 01. BAKESHOP 1719 USB simulcasting URAW74.... EAM on 6730 & at least 11244. (JH) THEOLOGY 0123 wkg NIGHTWATCH w/radio check QSY W101.(MJ)
6736 F4Y 0253 USB wkg SIDECAR, who wanted to know what crypto F4Y was using -(247). (JH)
6739 Yokota, Hickham, and Anderson ABs w/Skyking messages in that order. (AW) USAF Andrews AFA3 2320 USB wkg a Reach flt. to KHOP. (HW) ARCHITECT 0400 USB w/RAF Base wx ann into LI w/ good signal. (JC5) HONEYBEE 0453 USB clg MAINSAIL, & raising HICKAM; looking for NIGHTWATCH wkg freqs. ELMENDORF 0340 USB w/an h+40 "repeat" EAM xmsn. GHFS 1230 USB w/40+/- character EAM: QMBOU4. At 1329z, SAM 203 wkg ALBROOK. SINGRAY 12 0328 USB wkg MACDILL w/pp to commercial number id'd as HOWARD AFB. "Back up on COTHEN in 15 minutes." Also mention of "SUNFLOWER." Suspected mil counter-narc related. (probably STINGRAY 12, DEA a/c see 11175 -LOGS) MCCLELLAN 0510 USB, as lead GHFS station, w/6(677QKS)/20/26 character EAM set over a 10 minute period. Rare. MCCLELLAN 0432 USB, as lead GHFS station, w/two EAM strings, having trouble completing the set because he had to stop & start over for two FOXTROT broadcasts prefaced with ENLIST. Finally completed set at 0440z. These two strings were picked up by ELMENDORF for their h+21/h+40 "repeat" EAM bcsts. PALACIAL 0527 USB wkg MACDILL w/pp to NIGHTWATCH 01 (female opr), advising NW01 that he had tried W105 and X209 with no luck. NW01 advised X904, W100, & W101. ELMENDORF 0440 USB at their h+40 "repeat" EAM time w/26-character EAM taken from 0432z GHFS rotation of same. MCCLELLAN 1140 USB as lead GHFS station, w/20-character EAM "FOR TACAMO CENT PRIMARY." ELMENDORF 0540 USB w/26-character EAM string taken from 0528z GHFS broadcast of same. OFFUTT 0523 USB, as lead GHFS station, w/20/20/26 character EAM set over a 10 minute period. At 0540z, ELMENDORF was up w/the 26-character string from the 0523/33z 20/20/26 character EAM set; and at 0548z, HICKAM was up w/the same 26-character string. OFFUTT 0338 USB, as lead GHFS station, w/20-character EAM "FOR TACAMO PAC PRIMARY." All these abncp-type "For.." strings in May have been hitting a h+40+/- transmission window. OFFUTT 1218 USB, as lead GHFS station, w/a 78-character EAM (5T3SIX...). UNAMIOUS 0617 USB wkg LAJES for good wkg freqs for NIGHTWATCH 01.At 0638z, UNAMIOUS is broadcasting (repeating) the 26-character EAM he first broadcast at 0608z on 4495.0. No simulcast freqs found. OFFUT 0338 USB as lead GHFS station, w/20-character string "FOR TACAMO LANT PRIMARY."At 0442z, OFFUTT as lead station w/a 20/20/26 character EAM set over a 10-minute period (for the GHFS), & 15 minute period for the OFFUTT xmsn. ELMENDORF 0521 USB at their h+21 "repeat" EAM time, with 26-character EAM taken from OFFUTT's 0453z transmission of same. NIGHTWATCH 01 1203 USB clg MCCLELLAN for a radio check. Nothing heard. EXECUTIVE ONE FOXTROT 0603 USB raises ELMENDORF & req that ELMENDORF contact ANDREWS VIP & get ANDY's wkg freq(s) for E1F. ELMENDORF opr did not recognize the exact nature of the request, & did not recognize the callsign, req a phonetic spelling of same. E1F opr did so, including the OSCAR NOVEMBER ECHO part. It took a moment or two for the ELMENDORF opr to understand who he was talking to and what they wanted (presumed supervisor intervention during a long silent period.) wkg freq 649. PUMPSHED 0518 USB w/26-character EAM, leading the GHFS xmsn of same. No simulcast freq(s) found. PUMPSHED back up on freq shortly after this xmsn with another EAM string. TICKTACK (sounds like) 0407 USB wkg LAJES w/pp to OPCON, where he passed an "immediate" message consisting of multiple 3-element groups, and after the completion of the patch asked LAJES for NIGHTWATCH wkg freqs. Given S310/S314, very

high for this time of the local night. TICKTACK was back up at 0420z clg MAINSAIL, with no response. No signal was heard on either designator. HICKAM 0516 USB w/all frequency request for PAT 139. GHFS 0938 USB w/a 20-character EAM "FOR TACAMO CENT PRIMARY." There is an indication that the GHFS stations will hit an every 8-hour xmsn window for these things at 1938z/0338z/1138z;and, there is a weaker indication that they will sometimes hit a xmsn time 2 hours prior to the above times instead on some days. NARRATION 0343 USB clg MAINSAIL. Raises LAJES at 0350z, and gets wkg freqs for NIGHTWATCH 01: ZULU 125/ZULU 150 (not found). (JH) Offutt: 0133 USB EAM's URJZST wkg UR2ASX //8968 //11175. MacDill: 0138 USB EAM's (same as Offutt). Incirlik:?? 0139 USB EAM's -overpowered by MacDill but picked up end of transmission. Albrook: 0222 USB EAM/Sky king msg Xray 7 Oscar. REACH 0037: 0234 USB wkg Lajes pp HILDA EAST (KW2) TOP SONG: 2335 USB (STRATCOM Command Center, Offutt AFB) w/a communications test, simop'ing several GHFS transmit sites. (TT)

6754 Canadian AF with VOLMET tx. 2325 USB No ID heard, lots of wx! (HW) (CHR: Trenton Military at this time -LOGS) CHR: Trenton 0028 USB CF wx reports (RM)

6761 TURBO 53 0227 USB clg SIERRA 38 a number of times w/no response. TIGER 34 clg TURBO 54. TIGER 34 then worked TURBO 53 re 54 and was told TURBO 54 was on the runway and ready to roll. At 0230z+/-, AIRFORCE ONE works ANDREWS w/pp's. Departed at 0228z, and eta 0415z. At 0310z, SIERRA 38 (after quitting 11175) called TURBO 53 w/no response. (JH) SAM 403 0034 wkg Andrews w/pp to DSN 928 xxxx. (MJ) Air-to-Air Tanker Comms 0107 USB two unid a/c coordinating AR (Aerial Refueling) point west bound at 0130, one tail number is 19161 & tanker ok's passing an extra 5,000lbs of fuel. Air Force 1 0421 USB wkg Andrews terminating service. (RB)

6779 DRHL: Kriegship Rhein 1750 USB clg dhj 59. DRHL: Kriegship Rhein 1554 USB clg dhj 59 rtty setup. DRAT: Kriegship Emden 0900 USB clg dhj 59. DRHL: Kriegship Rhein 1115 USB ww DHJ 59. DRAT: Kriegship Emden 1839 USB ww DHJ 59. DRDR: Kriegship U24 1814 USB ww DHJ 59. DRHM: Kriegship Werra 1831 USB clg DHJ 59 radio check. DRAX: Kriegship Gorch Fock 0738 USB clg DHJ 59. DRHL: Kriegship Rhein 1420 USB ww DHJ 59. DRAO: Kriegship Lubeck 1652 USB ww DHJ 59 (BvR)

6818 F20 1235 USB wkg F10B sending a message in RTTY...after the msg was done F10B replied that the vehicle belongs to ____ Squadron and that he should bring it right over. An obviously annoyed F20 told 10B to watch his COMSEC & use callsigns not names. Both units had Scottish accents. (TB)

6912.5 AAZ: ARIZONIA LSB/USB 0030 is currently active Id'ing as "Military Station" w/similar traffic. He's requesting CQs on 7255.0 LSB. (JJ)

6936 RMP: Kaliningrad Naval, Russia 1600 CW Plain- language wx forecast in Russian to REO (JD2)

6986.5 NMN CAMSLANT Chesapeake 1656 CW clg CQ on Armed Forces Day 96, listening on 7050; at 1657 wkg AE1T fol by K3DI?. (RB)

6993 ANDREWS 0529 USB wkg NIGHTWATCH 01 in voice & data. ANDREWS 0314 USB wkg AIRFORCE ONE; 0328z, AIRFORCE ONE w/pp to AFOC via CROWN w/ arrival notice at ANDREWS. (JH) Andrews 0218 USB clg Air Force One for signal check. AF1 answers, then Andy requests departure time and ETA. AF1 tells Andy to stand by & he will make the usual pp to AFOC. In the middle of this, SAM 26000 calls for AF1. AF1 0220 USB wkg Andrews w/pp to AFOC. AF1 departed St. Louis, MO at 0220, eta KADW 0330z. (MJ)

7330 THEOLOGY 0129 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 asked THEOLOGY if he wanted to check into the net, and THEOLOGY said no. (JH) THEOLOGY 0128 wkg NW.(MJ)

7361.5 WAR: Fort Detrick MD 1945 LSB Armed Forces Day station (AM2)

7363.5 NAV HQ Navy-Marine Corps 2238 CW MARS, Cheltenham, Md, w/V's, DE NAV QRL on U.S. Armed Forces Day 1996. (RB)

7365 NAV: NAVCOMMDET Washington DC 1927 CW Armed Forces Day station (AM2)

7383.5 NBL: USN MARS Radio Station 1730 CW Naval Sub Base, New London, Ct, clg CQ on Armed Forces Day 96, & ann QSX of 7110. (RB)

7385 NBL: Groton CT 1759 CW Armed Forces Day station (AM2)

7475 NIGHTWATCH 01 1436 USB w/28-character EAM (picked up by GHFS at 1440z);followed by call to CONSTRUCT to verify receipt of traffic. NIGHTWATCH 01 1438 USB wkg BASSBOAT. When NIGHTWATCH 01 asked

BASSBOAT if he wished to enter the net, the answer was negative. NIGHTWATCH 01 also looking for station ROCKBELL. Secondary freq said to be ZULU 200, one of the new ZULU designators now being used since maybe 01 Jun 96 or so. (JH)
7535 SESEF NORFOLK 1849 USB conducting radio testing with the USS Arleigh Burke (MF2) Norfolk SESEF: 1739 USB wkg USS Detroit. Detroit doing radio checks in USB LSB ISB CW and FSK. USS Stark: 1355 USB wkg Norfolk SESEF radio test. (MK) NTIC: USS Ticonderoga (CG-47) 1458 USB tech control, req ck in the green. NNWI: USS Whidbey Island (LSD-41) 1516 USB clg AC4 (Assault Craft Unit 4, Little Creek, Va) "tower", no joy, app wanted 7536.5 Khz. N/A: PCU Gonzales (DDG-66) 1520 USB w/tests of several xmitters (Pre-commissioned Arleigh Burke-class guided missile destroyer, so no "USS" used yet). N/A: USS Pelican (MHC-53) 1618 USB clg SESEF for several minutes, no joy. Callsign? N/A: USS Robin (MHC-54) 1628 USB wkg SESEF w/test count, very weak here. callsign? NDWQ: USS Detroit (AOE-4) 1635 USB "Fast Combat Support", clg SESEF repeatedly for rdo ck, app cud not hear SESEF answering. (RB) USS TICONDEROGA 1300 USB wkg SESEF Norfolk testing their emitters. Had gone through 7 of 'em by the time I signed off (TB) (SESEF is Ships Electronic Systems Evaluation Facility, located at Ft Story, Va. -LOGS)
7592.5 FDI22: unlocated FAF 1833 CW CQ (DG)
7765 DoD Cape 1038 USB w/ann to Range Safety units that the shuttle is in orbit & ann of Open Ocean bailout SAR Exercise..."this is a drill". KING 1 USAF HC-130 Rescue a/c 1039 USB wkg DoD Cape re DMB (Data Marker Buoy) drop 3020N/7930W re Open Ocean bailout SAR Exercise. NLTT: USS John Hancock 1044 USB (DD-981), a Spruance-class destroyer, wkg DoD Cape re proceeding to 3020N/7920W as part of a Open Ocean Bailout SAR drill, later confirms helo, CUTLASS 473 was airborne but loitering within 7 NM of ship. ORION 4 USN P-3C NAS Jax 1103 USB wkg DoD Cape re proceeding to drill area as part of a Open Ocean Bailout SAR drill after the launch of shuttle Endeavour on STS-77. Adv was airborne from Cecil Field. WRPH: M/V Liberty Star 1843 USB clg Cape Radio, no joy, after 1030 launch of Space Shuttle Endeavour on STS-77, this is a Booster Recovery ship. (RB) DOD Cape: 1018 USB wkg King 1. DOD Cape: 1021 USB wkg Clearance 1. 1028 DOD Cape ann 2 mins to countdown.1029 DOD Cape announcement Time is now 1 minute. 1030 DOD Cape Endeavour has launched. 1033 DOD Cape made an ann about separation. 1040 DOD Cape to King 1 - request that they go to coordinated location. DOD Cape 1043 USB to King 3, then wkg Clearance-1 requesting them to return to base. (RW) (an excellent catch from Australia! -LOGS) X5L: 1453 USB clg ORION JAX once every couple of minutes. No answer. BRD (Booster Recovery Director) calling Liberty Star (no answer), and Cape Radio calling Liberty Star (again, no answer). Too bad X5L, BRD, and Cape Radio didn't want to talk to each other! (TT)
7788 FDI22: unlocated FAF 0805 CW CQ (DG)
8053 ANDREWS 0608 USB wkg EXECUTIVE ONE FOXTROT. (JH) Executive 1 Foxtrot 0517 USB wkg Andy w/signal ck's, adv is on the ground, will be back up in 20 mins.(RB)
8122 Canberra control 0925 USB w/radio check to "Mike Echo Kilo" Also wkg w/HMAS Trevally. Later Darwin wkg Launceston (Tasmania) ctl. til 0942 (AW)
8345.5 IGMA: It navy ship Magnaghi 1735 USB clg ICS. ICS: Italian Navy, La Specia 1014 USB clg IGTC for radiocheck (BvR)
8437 4XZ: IN Haifa 2007 CW CQ (DG)
8551.6 CTP: NATO Lisbon 0603 CW chan mkr. (DW2)
8602.5 ZLO: RNZN Auckland 0625 CW chan mkr. (DW2) (Tx Located at NAVCOMSTA Waiouru, HMNZS Irirangi, 300km South of Auckland -LOGS) (DW2)
8764 NMG: USCG CommSta New Orleans, La, US 0422 USB wkg E9V (on 8240). NMN: USCG CAMSLANT Chesapeake, Va, US 1722 USB clg USCGC Juniper (lead ship of the new Juniper-class buoy tenders), no joy. (RB)
8960 MCCLELLAN, as lead GHFS station, w/20-character EAM "FOR DOUBLE BAR; at 1207z with 20-character EAM "FOR STUB"; at 1217z w/20-character EAM "FOR DOUBLE BAR"; starting at 1322z w/the 20/20 set of a 20/20/26 character EAM set that he had to disregard for his initiation of a FOXTROT broadcast prefaced with FAIRLY, and which took up so much time to get restarted that he completed the entire

20/20/26 character set in one transmission. The 26-character EAM string of this set was then rebroadcast by MCCLELLAN at 1350z, MCCLELLAN's h+50 "repeat" EAM xmsn time. At 1507z, MCCLELLAN, as lead GHFS station, with a 20-character EAM "FOR STUB; and at 1514z with a 20-character EAM "FOR STUB." (JH)

8967 INDIA 0701 USB wkg SIERRA, general chitchat of a non-tactical, friendly nature.I first though that they were a couple of fishermen, but suspect USN alligator playground co-ord players. They get this way every now & then when they get bored. CHARLIE 4 activity, probably. (JH) (known FOXTROT TANGO freq -LOGS)

8968 E8B 0513 USB wkg HICKAM. Q2C 0430 USB clg HICKAM GLOBAL for a radio check. AT 0434z, HICKAM clg F2L; and F2L clg "any station this net." Weak. (JH) Offutt: 0133 USB EAM's URJZST wkg UR2ASX //6739 //11175. REACH 028: 0122 USB wkg Lajes pp Metro wkg Ramstein CP inbound to Rhein-Main AB with 217 passengers ID'ed pirep as DC-10 acft (is this a contract flight??). Lajes: 0136 USB EAM URJ...UR2 same as 6739. REACH 8J8: 0245 USB wkg Andrews pp Charleston CP wkg metro arrival time 0535Z 31 pax 15 veh. Andrews: 2334 USB EAM "RXW4DG". Lajes: 2335 USB EAM "RXW4DG". Andrews: 2335 USB EAM Skyking "SLT" (KW2) NAVY LIMA NOVEMBER 45 INDIA 1907 USB clg Mainsail, Offut answers with no reply from LN45I (MF2) RAIDER 44: 1512 pp to ?? via Lajes. EPIC 99: 1601 USB w/ pp to Westover AFB, said he was inbound to Westover. (MK) REACH V7 2035 USB wkg Lajes, req pp to Rota Metro for their 2130z wx. Asked what they forecast for a departure time of 2330z out of Rota, then an eight hour flight to Norfolk, then a one hour flight down to McGuire. Pilot Report: Aircraft -KC10, Posn -39N 58E, Flight Level -390, Winds -285/027, Outside Temp -57C, Negative Turbulence or icing, Nothing to report all the way from Sigonella. NAVY VT31 2040 USB wkg Lajes, req pp to 476.**** . The call was answered by the Duty Officer, told them to pass to ops 'on deck at 2130z, req transportation at 2130z. (SW2) OUTCLASS: 1756 USB w/ pp to DSN 271-# (STRATCOM Command Center Emergency Actions Officer) via Offutt. Initiated 1758, OUTCLASS radio-checked TOP SONG, and pp terminated at 1759Z. 8JS: 1736 USB contacting Andrews Global & req a pp to SIDE CAR "for Alligator coordination information." The poor Andrews op had absolutely no idea who/what SIDE CAR was, and the 8JS op advising the patch was for Alligator coordination purposes just confused the poor Andrews Global operator even more. Andrews finally asked for the number for SIDE CAR, & 8JS paused, then advised he'd try to contact SIDE CAR via another means! (TT)

8971 FALCON 01 1851 USB passing RTB (1930) time to BLUESTAR. FALCON 01 1922 USB reporting to BLUESTAR that due to low fuel state they will be refueling at Roosevelt Rds. TRIDENT 703 1915 USB giving his ETA to BLUESTAR to WHISKY 9 GOLF,BLUESTAR then popped up on the net and confirmed. (MF2) P5V: 1712 USB clg 5MR.. P5V told 5MR to try any means possible to try & contact TRIDENT 751 for ops report. TRIDENT 751: 1723 USB clg P5V w/ops & status report. (MK) 1SN 1200 USB wkg 6FI w/radio checks in clear & green (TB)

8983 CG2139: 2342 USB wkg CAMSLANT securing guard landing AS Miami. (KW2) CAMSLANT 1833 USB w/pp for YANKEE 1 GULF to Miami air station (MF2) CG 1500 USCG HC-130 1525 USB wkg NMF, CommSta Boston, w/report to be relayed to International Ice Patrol, Groton, Ct. CG 2115 HU-25A 'Guardian' 1822 USB wkg NMN re securing their radio guard, are on final to AirSta Cape Cod. (RB) USCG CAMSLANT, 1505, wkg CG a/c 2126 & 2141 (both HU-25). (DW2) CG RESCUE 6014 & RESCUE 6031 2000 USB wkg CAMSLANT Chesapeake. At 2002Z, CAMSLANT advised 6031 that District 7 wanted them to divert to Opa Locka (Florida) & wait for further instructions there. A/c were involved in SAROPS for ValuJet flight 592 crash near KMIA. (TT)

8992 MacDill: 2026 USB EAM made correction to msg. Albrook: 2336 USB(?)EAM "RXW4DG". Croughton: 2337 USB EAM "RXW4DG". (KW2)

9001.5 NMG: 0608 USB w/C8V (CG Vessel?) discussing HFDL msg traffic. (AM2)

9007 CanForce 3436: 0147 USB wkg Trenton Military. Departed El Paso TX req wx for Fredricton NB. (CM)

9011.4 HABITAT NAS Moffett Field, Ca 0504 USB wkg U3U for est to homeplate of 0640. (RB)

9014 RAYMOND 07 1647 USB providing pp's for GASER 21 to various DSN 866 numbers (ALTUS). Both fair level. SENTRY 42 0120 USB wkg RAYMOND 07,

w/pp to RAYMOND 24. (JH)
9016 India Romeo Mike GORILLA 0045 USB wkg MacDill w/pp to DSN.... MacDill asks to "stand by" IRM GORILLA reqs pp NOW, MacDill replies w/stand by. MacDill 0100 USB wkg ARMAMENT.... ARMAMENT passes short msg to MacDill about some sort of cancellation. MacDill ack, and mentions that there are equipment problems at MacDill. (JC5) MACDILL 0046 USB wkg ARMAMENT in voice & data, w/MACDILL having equipment problems near end of activity. ARMAMENT would call MACDILL with no response. Finally, at 0053z, there is a voice on freq clg out "you got it!", & at 0054z, MACDILL calls/works ARMAMENT, asking if ARMAMENT wants to continue with data. ARMAMENT immediately terminates the comms, and is gone. NIGHTWATCH 01 0032 USB wkg WAR46 on self-id'd ZULU-175, w/WAR46 providing a pp to a DSN 271 number for a hi n' bye connectivity check. At 0037z NIGHTWATCH 01 wkg NOONTIME, w/NOONTIME, req a data check, which NIGHTWATCH had to decline. At 0031z, NOONTIME exits the net through the challenge process with NIGHTWATCH 01. At 0205z, NIGHTWATCH 01 works WAR46 with a signal check. Also, attempted same at 0326z. RECTANGLE 1353 USB works NIGHTWATCH 01 on ZULU 175. OVERSLIDE 0042 USB clg NIGHTWATCH 01, and then WAR46, w/no response. NIGHTWATCH 01 clg OVERSLIDE at 0043z, w/no response. Followed by NIGHTWATCH 01 clg NARRATION. At 0131z, NIGHTWATCH 01 clg WAR46. (JH) OVERSLIDE: 0030 USB w/NW01 heard here on self ID'ed Z175 at. Never heard Z205 come up, but did catch NW01 at 0107 (real weak) wkg McClellan placing a pp to a 271 DSN number, so maybe the 11 MHz stuff is starting to fade on path to the various units. (LVH) PACCOM 01 0008 wkg MacDill. PACCOM 01 0015 wkg Andrews w/pp to Air Force Rescue Center Langley, 01 reporting hearing a distress call from an a/c 20 miles east of St. Croix. AFRC was aware, and already has an incident open on this. (MJ) PACAF 01 1448 USB wkg MacDill Global on flight to Maxwell AFB, Alabama, with a DV3 (PACAF commander Gen. John G. Lorber) onboard. Other freqs triedas secondaries include 6715 and 13242 kHz. (RJL)
9017 61BT: 0245 USB wkg MacDill with pp to Command Post (CM) MOTORIST 2014 USB wkg NIGHTWATCH 01. DOORPLATE raises NIGHTWATCH 01 to enter the net, and is moved to S314. At 2017z, WAR46 wkg NIGHTWATCH 01 for signal check. At 2342z, MOTORIST (USN trained) with 102 character EAM(5TCPBN...) picked up by OFFUTT at 2354z on GHFS. NIGHTWATCH net station 0011 USB w/26-character EAM first bcst on GHFS at 0007z. At 0018z, ARMAMENT w/26-character EAM, // on 6739, 9017, & 11244. (rhetorical question: did MOTORIST "roll over" to ARMAMENT at 0000z?). At 0022z, COMMUNITY wkg ARMAMENT, and NIGHTWATCH 01 clg ARMAMENT. At 0027z, COMMUNITY advises that he will be monitor only for next 2 hours. QUIETMAN 1739 USB wkg AUXILIARY (USN trained). At 1737z, ATTRITION sounds sorta like) with 26-character EAM. At 1830z, AUXILIARY wkg QUIETMAN. At 1838z, QUIETMAN with 26-character EAM, then a roll call. TOLLROAD said to be monitor only for 1 hour. WAR46 0035 USB wkg NIGHTWATCH 01 for signal check. NIGHTWATCH 01 0125 USB clg THEOLOGY. TIGEREYE 1524 USB, // on 6739, 9017, & 11244 w/56-character EAM (PCQF5X...; & picked up by OFFUTT at 1524z) that contained "ones" and the (or similar) sequenced blocks of a similiar string on 23 May at 1549z ("...EAL1EAM1ESN...").At 1552z, TIGEREYE back up w/45-character EAM string (PCGAPF...) containing block "...EAN1A...". At 1615z, TIGEREYE back up with 55-character EAM string (PCADUH...) containing block "...EAL1AEAM1A..". Then at 1741z, TIGEREYE (// as above) was up with 73-character EAM string "FOR USS BUFFALO" (SSN)(PCXBYL...), and it too contained a block "...EAL1AIRJEAM1A....". OFFUTT picked up the last string at 1744z for their GHFS bcst of same. Very unusual, what w/the "ones" & the "L" though "N" sequencing. NIGHTWATCH 01 2117 USB clg and wkg WAR46 for a signal check. TESTPOD (probable USN) 2113 USB clg SILICATE (sounds like), but raising"_____" (could not make out id.) DEERMEAT (suspected USAF asset) 1557 USB wkg NIGHTWATCH 01, and entering the net. WAR46 1952 USB clg NIGHTWATCH 01, with no response and gone. (JH) WAR46 0250 wkg NIGHTWATCH 01 w/signal check. (MJ5)
9018 Unid 1737 USB Comms between two stations, one of whom seemed to id as "TWO". Sounded as back channel administrative type comms, not tactical comms. GASER 93 0157 USB clg GASER 92. At 0247z, they are active w/discussion of "helos are up and on time" & PLANTATION OPS is

not up on SATCOM at that time. (JH)
9023 WGY901 1912 USB clg a callword station, but could not make out id. No response. CHALICE CHARLIE 1610 USB clg NORTHERN LIGHTS & DEERHUNTER. (JH)
9031 IFN91 1800 USB Architect/ETA Split 1935/45,sel/AHJM XV182 C130 (RD3)
9122.5 WUG: 1536 USB leading net 1558 WUJ wkg WUJ5 (RM)
9320 AIRFORCE ONE 0252 USB wkg ANDREWS. (JH)
9811.5 AEUI: Corps of Engineers M/V MISSISSIPPI 1830 USB Armed Forces Day station (AM2) AEUI: "MV Mississippi" 1600 USB of the U.S. Army Corps of Engineers, Memphis, Tenn., clg CQ and responding to calls on 7273 for U.S. Armed Forces Day. Said that he would also use 15314 when the broadcast band went quiet. (JH)
10204 LANDFALL 2005 USB clg any station this net on Z-190 (No joy.) and gone. (JJ)
10241 Russian Navy Moscow (?) 1722 USB QSX 7538, pp to var. ships (ANG)
10470.5 FDC: 0450 CW French Air Forces Metz w/ch. marker.(DW2)
10780 Cape Radio: 0145 USB wkg CAP? coordinating freq on 6937.No joy. (CM) USS John Hancock: 2204 USB wkg Cape Radio in support of STS launch. USS John Hancock reported being underway & inquired if Cape Osborne (sp?) was active on the net. (DW2) NLTT: USS John Hancock (DD-981) 1637 USB a Spruance-class destroyer, clg Cape Radio no joy, app in support of pending launch of STS-77. (RB)
10995 P2Y 0015 USB clg P1D & N6K (RM)
10996 FDI22: unlocated FAF 1400 CW CQ (DG) FDI22: FAF Aix, F 1417 CW vvv marker (PB)
11052 PACOM 01 1845 USB wkg Andrews AFB on F-561 with signal checks for possible primary freq. (JJ)
11053.5 SAM 205: 1240 USB to Shannon.confirmed designator as 891 Upper. (JP2)
11059 SAM 202: 1734 USB pp to MacDill ops through Andrews. SAM 202 was inbound to MacDill. (MK)
11153.6 GOLF 1905 USB clg any station this net for a radio check (no joy). (JJ)
11175 Magic 57 1947 USB Croughton (E-3) pp PMSV, wx. Reach 4W6 1559 USB Ascension several pp, enrt to Ramstein. Gordo 12 2227 Ascension (E-4) pp Andrews PMSV wx Andrews 2330. Reach 60163 2050 USB MacDill (C-141B, 66-0163) pp Ramstein PMSV wx GOOY (Dakar) and FZAA (Kinshasa, Zaire), also req. sunrise/sunset times for Kinshasa. pp Hilda East discussing the recovery of the aircraft out of Zaire (BH) NIGHTWATCH 03, 1510, with Offutt AFB, cut off for higher precedence traffic. (EAM). NIGHTWATCH 01, 1550, calling NIGHTWATCH 03. No Joy. SHELL 61, 1553, with Offutt AFB, pp to Raymond 12 (England AFB). REACH 8035: C-5/C-141, with Elmendorf, pp to Travis Ops. SHADOW 21: KC-10/KC-135, with Offutt, pp to Peterson AFB Meteo. TUFF 12 and TUFF 15: B-52H's, with Offutt, pp to Barksdale Meteo. Regarding WX at training route IR-174 (located north of Memphis, TN). SAM 375: 1725 USB pp w/Andrews Presidential via Albrook. Reach CG: 0517 USB wkg Elmendorf AFB AK. (DW2) MCCLELLAN 1608 USB as lead GHFS station, w/a 20/20/26 character EAM set over an 8 minute period. ONE ROMEO MIKE 2353 USB wkg MACDILL w/pp req for COMSUBRON SIX at a DSN 564 number. Trouble completing this patch due to numerous EAMs (including 102 character string) and in progress phonepatches; plus FIVE DELTA PAPA popped up on freq at this same time trying to call the same number. Never did hear it completed from either party. They were not happy campers. OFFUTT 0133 USB as lead GHFS station, w/20/20/26 character EAM set over a 11 minute period. NIGHTWATCH 01 1550 USB clg NIGHT -WATCH 03, no response & gone. NAVY PM 766 0516 USB clg ELMENDORF, then "any station", & raising MCCLELLAN, with a phonepatch to DSN 359 "DUTY OFFICE." NIGHTWATCH 01 1437 USB wkg MACDILL w/pp's for wx at WRIGHT PAT. Weak qrm from S4JG clg any station, and from weak ALE pulses. SIERRA 38 0257 USB (who had been called about 30 minutes earlier by TURBO 53 on 6761.0) wkg HICKAM with phonepatch to TRAVIS CP, looking for TURBO 53. When told that TURBO 53 would not be able to meet them until maybe 0415z, SIERRA 38 considered conducting some transition training at LUKE or DAVIS MONTHAN. At 0324z, TIGER 34 (also on 6761) wkg ASCENSION w/pp to ELLSWORTH wx. HICKAM 0444 USB clg F2L. Q7C 1807 USB wkg ASCENSION trying to place pp to DSN 564 number id'd as COMSUBRON 8. Tried two DSN 564 numbers; both went unanswered per ASCENSION opr. Q7C advised that he would try later

and was gone. PAWNSHOP 1520 USB wkg ANDREWS w/pp to NIGHTWATCH 01. (JH) Spirit 25: B-2A 1303 USB pp to Andrews AFB SHOW CONTROL coordinating a fly-by during the air show. Said he would call on UHF when he was closer. (JM) Navy JM 275: 1845 USB radio check, clg Offutt w/no response. (JP2) MacDill 0148 USB wkg pp for DOOM 72 (B-52) to Barksdale AFB, LA Metro. Seems that Barksdale provided a/c w/updates on navigation & wx data at target site. Ascension 0044 USB w/pp for REACH 18173 (Tail#40638) to Andrews Command Post and Metro. A/c wanted to verify that Andrews is closed and should they still land at Dulles International. Command Post confirmed, Andrews is closed and Dulles will accept them. (KS) Offutt: 0133 USB EAM's URJZST wkg UR2ASX //6739 //8968. SUGAR 81: 0128 USB wkg Albrook pp PLANTATION OPS. DOOM 72: 0140 USB wkg MacDill switch to 11217. 441: 0237 USB wkg Hickam pp may be diverted from Ellsworth to McConnell or Minot. REACH 227: 0241 USB wkg Hickam pp metro wkg base ops -- C141 a/c. JAWS 52: 0242 USB wkg Hickam requested by GHFS op to move to 8968. REACH 0448: 2326 USB clg MAINSAIL any station- no joy. GASER 93: 2327wkg Andrews rdo ck -- loud and clear. REACH 448: 2329 USB clg MAINSAIL any station- no joy. (KW2) DEADMAN: 1323 USB wkg Hickam looking for NW working freqs. Hickam got NW 01 on the pp & passed Z190 pri /Z200 sec. DEADMAN wanted to check in the net via pp, but NW said he would meet him on above freqs. (LVH) MacDill 1826 USB w/pp for MUSIC 52 to DSN#781-2644-BARKSDALE,AFB. Albrook 1826 USB w/pp for TORCH 38 to Furious. MacDill 1900 USB w/pp for TUFF 12 to DNS#781-3166-Barksdale meteo. Albrook 1855 USB w/pp for LIMA DELTA 115 Lobo & meteo. Offutt 1848 USB w/pp for REACH 0005 to Andrews meteo. Albrook 1853 USB w/pp for SHARK 22 to Lobo (MF2) Executive One Foxtrot (a/c carrying First Lady Hillary Clinton) 0211 USB wkg MacDill w/pp to Andrews? Command Post. GLOW 26 1924 USB wkg MacDill w/pp to DSN 497 xxxx. THEOLOGY 0040 wkg Ascension w/ radio check. THEOLOGY insists on calling Ascension "Hickam" even after Asc. repeats his call. JAWS 57 0054 wkg Ascension w/radio check. THEOLOGY 0108 wkg Hickam requesting NIGHTWATCH net frequencies. SENTRY 58 0138 wkg Hickam w/pp to Raymond 24. 58 wants message relayed to Falcon 3 that they will be extending their crew duty day in order to make scheduled arrival.Falcoln 3 gets on and is not pleased with this, much discussion ensues. 58 then asks 24 if his satcom is up & finishes the conversation there, terminating the pp. EVAL 0153 wkg Ascension requesting NIGHTWATCH net frequencies. SENTRY 58 (USAF E-3 AWACS) 0153 wkg EVAL w/ radio check.58 then asks EVAL to meet him on 11214. DARK 44 0204 wkg Hickam w/pp to DYESS metro req wx for IR320 training route for 0320 entry time. GULL 18 (USAF WC-130 Storm Tracker) 2325 wkg Andrews w/pp. CATBIRD 2254 wkg Ascension w/pp to Brunswick NAS cp. SKYCAST 43 2325 wkg Albrook w/pp activity. NIGHTHAWK 31 wkg Albrook w/pp to DSN 278 xxxx. (MJ) MCCLELLAN MAINTENANCE: 1512 USB clg McClellan for a rdo chk. Switched to 11181. Both heard load and clear. DOOM 80: 1604 USB B52 pp attempt through MacDill to 860-****. GORDO 25: 1609 USB E4 wkg Macdill pp to unk #. Gordo weak barely readable. HERKY 14: 1406 USB pp to St Johns via MacDill. Flight of 4 inbound to St Johns from Little Rock. QOJ: 1421 USB pp to COMSUBLANT 564-XXXX (Norfolk) via MacDill QOJ told K6N that he was Esteam High Alpha. Nightwatch 01: 1443 USB pp to ?? via MacDill needed wx for Wright Pat. AFB. RAFAIR 4K07: 1451 USB req MacDill call Goose Bay & advise they will monitor 11192. AFTON 38: 1459 USB wkg MacDill w/ pp to Westover ops. said he was inbound to Westover AFB from Lajes and was a flight of 2. The second a/c was EPIC 99 and EPIC would arrive 10 min prior to AFTON. CASEY 01: 1508 USB (KC135e) wkg Andrews w/pp to Offutt ops. Was inbound to Offutt w/1 pac. Told Offutt to notify LOOK 01. DERBY 73: 15:12 USB (C130) wkg MacDill w/pp Little Rock metro. SPEG 41: 16:05 USB (not sure of callsign) told MacDill that he was departing this freq and thanked him for the help.(MK) STINGRAY 29: U.S. Customs a/c 2340 USB wkg Albrook GHFS w/pp to unid callword who req 29 proceed to coords passed, re poss a/c track, passes course & speed of a/c, will att comms on COTHEN. (RB) DECOY 01 1157 USB w/phone patch thru Albrook to DSN 476-2682 which ID'd as Navy _____ Ops. ETA 1245 and would need civilian and military customs and agriculture. Req 15000 lbs/fuel (TB) DRAGON LADY: 1729 USB calling any station for a radio check. No

answer. LOOK 98: 1741 USB w/ pp to 291-# via Offutt GHFS. LOOK 98 advised "Offutt" to relay to Waldorf (MD GEP site) that 98 will look for them on 7C, and burning on RF-24. The ground party asked if 98 was at Seymour-Johnson (AFB, E-4B/EC-135 forward operating location) & LOOK 98 advised affirmative. NAVY JK911: 1804 USB w/ pp to a DSN at NAS Brunswick, Maine via MacDill. JK011 passed an off-station time of 1705Z to F6M. COMSEC violation! (TT) NAVY UT986: 1808 USB w/pp to DSN 476-# via MacDill.1818 MacDill adv all #s busy. 986 advised them to try # or #. Initiated 1919 UT986 relayed tfc to Duty Office for relay to Whiskey Oscar (Watch Officer) at ext.#. Tfc from TRIDENT 740, and was an Ops Normal rpt for 1800 & 1830Z. HUSKY 51: 1811 USB radio-checking Andrews Global. NIGHTHAWK BASE: 1534 USB w/ pp to DSN 278 # via MacDill GHFS. NIGHTHAWK BASE radiochecked NIGHTHAWK COMMO both L/C, pp was terminated at 1535Z. At 1542Z, NH BASE made another pp to HMX-1 Comms Center at MCB Quantico, asking them to come up on their Squadron Common HF channel. NH BASE had a very audible clacking noise in the audio background, like a gas generator or tractor was running nearby. P8B: 1633 USB clg any station. No answer. At 1638Z, same station keys up & says Any station this net, this is USS Eme (possibly Emery, Emerly, Everly, etc.), but the op pauses after he realizes hes just said all or most of his vessels name, then IDs as P8B and asks for a radio-check. (TT)

11176 Aircraft xxxx? 0134 clg any station for a radio check. Op id'ed his location as Hurlburt Field, Fl.(MJ)

11181 NIGHTWATCH 01: USB clg DEADMAN on Z200 (self ID'ed) req him to acknowledge current traffic. Heard a new EAM passed a few minutes earlier. When he didn't get a reply, he passed same EAM here on Z200. (LVH)

11214 CHALICE BRAVO 1708 USB wkg EDMONTON MILITARY w/pp to BIGFOOT, & then DEERHUNTER. BANDSAW JULIET 1611 USB wkg TRENTON MILITARY w/pp. At one point the opr on BANDSAW JULIET on the patch had a non-U.S. EE accent, possibly German. (JH) SENTRY 58 0156 wkg EVAL. (MJ) SENTRY 56 USAF E-3 AWACS 1607 USB wkg SENTRY 50, both standing by for Falcon 3 via pp by Trenton Military to RAYMOND 24, adv he is #2, then att to RAYMOND 24 re 30 min delay in re-fueling causing delay in slip times. DARKSTAR MIKE E-3 AWACS 1614 USB wkg Trenton Military w/pp RAYMOND 24. (RB)

11217 DOOM 72: 0140 USB wkg MacDill pp Barnstrum? metro wx for route 293 (bomber on low level practice run??) (KW2) CATCH 11: 0050 USB Freq was active from 00:50z - 00:15z, 10 aircraft were heard during this time span, 11,12,22,23,31,40,41,42,45,61 all were working either REDDOG or BOOKSHELF.CATCH 40 called himself CATCH 40 MIKE CHARLIE. CATCH 42 heard telling BOOKSHELF they were "FIAT" & to pass that on to CATCH 12 CATCH 61 passed to REDDOG they were "SUBURU" eta base time minus 30 min and requested METEOR upload. CATCH 23 was heard passing similar info to REDDOG. CATCH 42 was heading home and gear is down at 01:06z. CATCH 10 passed info to REDDOG via BOOKSHELF that he was "LONESTAR" at 02:30z CATCH 40 requested BOOKSHELF to check if 310 degrees was correct and mentioned TAILPIPE ALPHA at 2:46z Last transmission heard was at 03:00z when an unid station stated something like all players "PATRICK"..(MK) MINOR 11 1520 USB att to work MacDill GHFS for a pp to a commercial number, faded here.(RB) REACH 524: 2154 USB clg DIXIE CONTROL & adv their ETA about 45 mins about 1845 local with 47 pax & 9 crew. At 2207Z , REACH 80030 adv they were 1 hour & 45 minutes out "should be on the ground by 7PM" & reminded CONTROL that a retired general was aboard.(TT)

11220 ATTRITION 1906 USB clg NIGHTWATCH 01, then calls/works QUIETMAN. Freq made primary, with 9017.0 secondary. GLADIOLA 1615 USB clg NIGHTWATCH 01. MULBERRY 1934 USB wkg NIGHTWATCH 01. At 2001z, SELLOUT wkg NIGHTWATCH 01, and into some chatter with NIGHTWATCH 01 about "frequency designators." Too weak to follow thread. (JH) Executive One Foxtrot 0300 USB wkg Andrews AFB over the past couple of hours w/pp's to numerous airports in & around Little Rock. It seems Little Rock is rocking with thunder storms tonight. ETA into Little Rock is 0330z (don't know if that's still a good estimate). (JJ)

11232 Trenton Military: 1904 USB wkg Canforce 1958. Departed Dulles Int'l enrt to Colorado Springs. Req wx. (CM)

11244 Airvac Victor5 1020 USB wkg Croughton, pp Rhoda, req upload

100,000lbs of fuel, Rhoda-Freetown(GFLL)-ETAR. meeting C21at Rhoda w/medical crew. Harmo 89 1030 USB. Airvac Victor 5 1055 USB wkg Croughton pp Rhoda metro. wx for Freetown for 17:00z arrival. (CH) NIGHTWATCH 03 1912 USB then in the next call ID's as NIGHTWATCH 04, clg MACDILL for a signal check. No response.Within half a minute I caught the tail end of a comm on 8992 between MACDILL and a strong station sounding like NIGHTWATCH 04 (but no id given at the end of his comm), with the station advising MACDILL that he was now in contact with NEW YORK, and would break off w/MACDILL. OFFUTT 1653 USB, as lead GHFS station, w/a 20/20/26 character EAM set over an 11 minute period. OFFUTT 1940 USB with 20-character EAM "FOR TACAMO LANT PRIMARY." The GHFS has been hitting h+40(+/-) minutestamps in it's broadcast of these abncp-type "For.." strings. OFFUTT followed this string with a second 20-character string w/no preface. OFFUTT 1900 USB, as lead GHFS station, with 213+ (missed a character or two) EAM: 5TPI23.... At 1923z, OFFUTT back up with 26-character EAM: 67ULEH. Very unusual, as the "67.." series of static characters were last used on 13 May 96, replaced by "UR..." series. At 1928z,OFFUTT up w/20-character EAM (maybe, count lost in qrn):URT4WP... At 1945z, OFFUTT up with 74-character (+/-) EAM:5T5TC6... OFFUTT 1433 USB, as lead GHFS station, w/20-character EAM "FOR GROSS INCOME." This string was preceded with a short active EAM period on the GHFS. Two of the strings from this period were then picked up by a very weak GHFS station (could not make out id) who repeated them at 1456/57z & 1526/27z. THEOLOGY 0118 USB clg MAINSAIL; raising MCCLELLAN, looking for wkg freqs for NIGHTWATCH 01. TELLTALE 1435 USB called MAINSAIL, and raised MACDILL for a signal check and gone. OFFUTT 1325 USB, as lead GHFS station, w/20-character EAMs "FOR ERRAND" at 1325z & 1336z. OFFUTT 1549 USB as lead GHFS station, w/108-character EAM (PC6BJV...).Different from past strings in that the character set contained"ones" and an "L" through "N" sequencing in certain text blocks:"EAL1A", "EAM1A", "EAN1A." BAKESHOP 1700 USB clg MCCLELLAN. At 1740z, OFFUTT as lead GHFS station, with 30-character EAM (PC7PHX...; and no "ones"). TESTPOD 2103 USB clg MAINSAIL. BUSBY 77 (sounds like; guess on spelling) clg MAINSAIL "with request." No answer. GHFS 1939 USB EAM cycle of 20-character string "FOR TACAMO LANT SECONDARY." They are apparently broadcasting these abncp-type "For.." strings during an every-eight-hour transmission window of 0340z/1140z/1940z(all +/-). DEERMEAT 1630 USB clg OFFUTT; OFFUTT responds & told him to standby for patch in-progress (GOLD 22). DEERMEAT req pp to common DSN 271 number, id'd as "_____" (could not make out call), for a quick hi 'n bye self-id'd "signal check", & gone. At 1650z,MACDILL clg QUID 11. GHFS 1321 USB Various GHFS stations w/20/20/26 character EAM set over a 10+minute period. At 1350z, MCCLELLAN, at their h+50 "repeat" EAM time, broadcast the 26-character string of that 20/20/26 character EAM set. No transmission from MCCLELLAN was heard at 1411z. ANDREWS 1425 USB, as lead GHFS station, w/61-character EAM: UP3L5N... MULBERRY (probable USN) 1925 USB clg MAINSAIL & raising a weak MACDILL;looking for NIGHTWATCH 01 wkg freqs. During these comms, a weak station popped up on freq clg "any station, this is"____"", w/id too weak to make out. At 1958z+, SELLOUT wkg MACDILL, apparently trying to get wkg freqs, with some confusion on the part of SELLOUT in MACDILL's answer. SELLOUT asked MACDILL opr is she was "...aware of the frequency tables that are zulu designated?" MACDILL opr's response was to simply reconfirm the two wkg freqs for the net. ANDREWS 1502 USB, as lead GHFS station, w/93-character EAM "FOR ____ITY" (sounds sorta like SURETY, or "sir-i-ty", or somesuch), PCY2IA... A rare variable character-count string "For..." something.No bcst from other GHFS stations (including MACDILL) was heard here for this string. At 1507z, ANDREWS was up again with a 44-character (common character count) EAM (UP5M6Y..), this time with no preface. At 1537z, ANDREWS up w/20-character EAM "FOR"___ITY", w/MACDILL heard w/the string as well. ANDREWS 1938 USB, as lead GHFS station, w/26-character EAM string, followed immediately with a 20-character EAM string "FOR TACAMO PAC PRIMARY." Common 1938z xmsn time for these things. ANDREWS 1403 USB, as lead GHFS station, w/93-character EAM string "FOR ___ITY" (sounds like "sure-i-tee" or somesuch): PMCUTB... Same

time stamp as similiar 93-character "FOR ____ITY" string on 01 Jun.At 1446z, ANDREWS w/a 20-character EAM string "FOR ___ITY". ANDREWS 1622 USB, as lead GHFS station, w/48-character EAM: PCRGOF...There was also a callsigned station up on 6739.0 transmitting this same EAM, maybe simulcasting on 11244.0. No net simulcast freq found, which may suggest he may have been on one of the new ZULU designated freqs. At 1650z, ANDREWS, as lead GHFS station, with a 6(RXFOCY)/20/26 character EAM set over an 8 minute period. Unid station but stomped on by GHFS stations when he got around to id'ing himself - may have been NOONTIME) up at 1924z on 11244 & 6739 w/26-character EAM, slightly leading the GHFS with same. PINUP 35 1908 USB wkg GHFS stations (ALBROOK and ANDREWS) with "Ops normal, 3-element group messages" at times such as 1908z (one group),2004z (one group), and 2031z (Ops normal, no group). Last PINUP ## heard here was a year or so ago, and it was an alias used on the GHFS for an a/c that id'd on the AFSOC freqs as one of Hurlburt's JACKY ## calls. No idea if that is still the case with this station. (JH) Albrook 1845 USB w/pp for SHARK 61to Lobo and to 825-5552 -VIKING OPS in Minneapolis (MF2)

11247 Ascot 69A 1030 USB wkg Architect. EGUN-ETNS. Selcal AH-KL (CH)

11253 MVU RAF Volmet, W. Drayton 2240 USB w/ID, "this is Royal Air Force Volmet", first hrd since this latest freq chg. (RB)

11494 NIGHTWATCH 02 1645 USB wkg NIGHTWATCH 01 on S311 for comms ck's.(RB)

13200 HICKAM 0308 USB w/a 20-character EAM string first bcst by OFFUTT at 0305z. During her transmission, the 11175.0 comms between HICKAM & SIERRA 38 could be heard in her background. OVERSLIDE 0036 USB wkg THULE (after first clg MAINSAIL on 11175), getting wkg freqs for NIGHTWATCH 01: ZULU-205/ZULU-175. (JH) REACH 1149: 2318 USB w/ McClellan pp Hilda America w/Charleston metro C141 a/c located 60 miles WNW Holloman AFB NM enroute to Charleston AFB. (KW2) OVERSLIDE: 0015 USB wkg Thule for NW working freqs. Thule passed Z205/Z175 (LVH) NAVY LIMA NOVEMBER 45 INDIA 1859 USB clg Mainsail,nothing heard (MF2)

13211 PAWNSHOP 1522 USB wkg NIGHTWATCH 01, & enters the net. NIGHTWATCH 01 tries to get PAWNSHOP to move to net primary freq of Z-205, but discovers that PAWNSHOP may not have the new ZULU designators. NIGHTWATCH 01 first tries to pass the freq(s) via ANDVT, but when he learns that PAWNSHOP can't work the digital mode at this time, offers to pass the freq(s) in the clear. Unfortunately,propagation failed them and the comms were not completed. (JH)

13242 REACH 50219 1641 USB wkg MCCLELLAN w/pp to TRAVIS wx & command post. Moved here from 13200. (JH)

13245 NARRATION 0012 USB clg NIGHTWATCH 01 on self-id'd ZULU-220, w/nothing heard & gone. (JH) NARRATION: 0011 USB clg NIGHTWATCH 01 on this freq & self ID'ed as Z220 at. No answer from NW01. (LVH)

13476 USNA, Annapolis 1512 CW recruitment msgs (RM)

13965 AAZ: Fort Huachuca AZ 2347 USB Armed Forces Day station (AM2)

13993 AAE: Fort Sam Houston TX 1855 USB Armed Forces Day station (AM2)

14384.5 CIW803 Canadian CFARS op, 1748 USB Gander, NF (Canadian Forces Affiliated Radio System) clg CIW809 on "Bravo" re having another station QSY to "Juliette" (14452.5). (RB)

14385 NBL: Groton CT 1731 USB Armed Forces Day station (AM2) NBL: USN MARS Radio Station 2244 USB Naval Sub Base, New London (Groton) Ct, w/'Don' clg CQ on Armed Forces Day 96, & ann QSX of 14255. (RB)

14400 AIR: Andrews AFB MD 1747 USB Armed Forces Day station (AM2)

14408 AIR: Andrews AFB MD 1742 USB Armed Forces Day station (AM2)

14441.5 NNN0CBS: USCGC Durable 0140 USB to NNN0EIZ (Lance Berglund-Ojai CA) pp switched to 14477 USB. NNN0NCJ: USCGC Eagle 0200 USB w/NNN0ADV (?) w/pp went to 14391.5 USB, but propagation NG and pp dropped. NNN0CRW: USS Guam 2004 USB clg for pp-no joy. NNN0CXN: USS Portland 2006 USB in comm w/NNN0CRW (USS Guam) re being on freq for while & no contacts. NNNOCXN: USS Portland 2125 USB w/NNNOHLQ (Texas Shore Station) switched to 14470USB for pp (MR2) NNN0CVP USS Conoley (DD-979) 0156 USB clg ASSMS w/beam heading of east w/routine pp tfc. NNN0NZU Unid airborne unit 0159 USB clg ASSMS, later at 0253 wkg NNN0CQD who asks if they are a shore station, adv they are a airborne unit based in Europe. ID? Was formerly the decommissioned USS Meyrkord (FF-1058). NNN0CQD USCGC Jarvis (WHEC-725) 0255 USB clg ASSMS & fading. (RB)

14463.5 MPN: USMC Base, Camp Pendleton, Ca, US 1833 USB wkg WB6FZH (in Hi.)

for QSO on U.S. Armed Forces Day 1996.(RB)
14467 NMN: CAMSLANT Chesapeake VA 1748 USB Armed Forces Day station (AM2) NMN: USCG Chesapeake Armed Forces Day special events stn. Listened on 14277 (CM) NMN: USCG CAMSLANT Chesapeake, Va 2239 USB w/"Kevin" clg CQ & listening on 14313 on U.S. Armed Forces Day 1996, then wkg W6BL for QSO.(RB)
14470 NAV-2: North Charleston SC 2129 USB Armed Forces Day station (AM2)
14470 NNNOCXB: USS John F Kennedy 2223 USB not heard w/NNNOHLQ (see above) no joy. NNNOCXK: USCGC Gallatin 2234 USB w/NNNOHLQ (see above) w/pp's. NNNOCXN: USS Portland 2310 USB again w/HLQ who was rotating var ships w/pp. Propagation became poor and HLQ told CXN to switch back to calling freq to get new shore contact. NNNOCXM: USS McInerney 0051 USB w/NNNOHLQ (Texas Shore Station) pp. NNNOCZO: USS Stephen W. Groves 0058 USB w/NNNOHLQ (see above) pp (MR2)
14487 AAH: Fort Lewis WA 1812 USB Armed Forces Day station. NPN: Camp Pendleton CA 1825 USB Armed Forces Day station (AM2) AAH: Army MARS, Ft Lewis,WA 1805 USB wkg K9EUI? for QSO on U.S. Armed Forces Day, 1996. (RB)
14587 COTAM 1142: 1110 USB from Bangui to Roissy. COTAM 2002: 1115 USB 50n-29w to Orleans,ops normal. (JP2)
15016 Airvac 10E1 1619 USB wkg Lajes req pp, ETA Ramstien 1625 (CH) REACH 802: 1414 USB (tail #50269 C141b) pp to Hilda via Lajes (MK)
15041 NIGHTWATCH 01 2017 USB wkg DOORPLATE, who enters the net. (JH)
15729 AJO: USAF, Incirlik, Turkey 1340 ISB working AJE - voice on LSB, 75-bd crypto "6028" VFT on USB (JD2)
16986 CTP: NATO Lisbon 1543 CW marker "vvv de ctp qsx 4 6 8 12 mhz k" (DW)
17050 4XZ: IN Haifa 1557 CW marker "vvv de 4xz = = " (DW)
17976 S5E 1750 USB clg ANDREWS GLOBAL for a radio check. After a number of tries, nothing heard and gone. At 1927z, ANDREWS, as lead GHFS station, with 65-character EAM (UP6EEK...). (JH)
18027 SURPRISE 1657 USB wkg CLASSICAL for signal checks. (JJ)

=ALL OTHER SSB/AM/CW/& MISCELLANEOUS MYSTERIOUS STATIONS=
25 RJH66: Frunze TS, KGZ 0306 CW TS, former callsign USB2 (KB)
RJH99: Gorki TS, RUS 0406 CW TS, ex UTR3 (KB)
RJH69: Molodecno TS, BLR 0606 CW TS, ex UNW3 (KB)
RJH63: Unid 0806 CW TS, probably in the western part of CIS (KB)
RJH77: Arkhangelsk TS, RUS 1006 CW TS, ex UPD8 (KB)
1610 Travelers information station 0129 AM Indian Head Division of the Naval Surface Warfare Center Indian Head, Maryland." (KS)
2500 ULA4: Tashkent TS, UZB 2029 CW TS, former callsign RCH (KB)
5000 ULA4: Tashkent TS, UZB 1759 CW TS, former callsign RCH (KB)
5400 Various 0830 USB Japanese, later at 0930 Indonesian p/p (AW)
6517.5 Unid 0335 USB YL in EE "I think there's smoke!!!", OM barely readable here responds.... a tone sounds at regular interval on this freq regardless of transmission underway. Conversation continues ...vry wk copy here in LI... Could this be some ship to shore carrier?? (JC5)
6666.5 Unid 0421 USB The conversations have been here for several days... Spanish I think...both female and male...wouldn't mind knowing the general location of this chatter...just curiosity.approx 0045z. (JC5)
6720 Unid Pacific Islander 1040 USB p/p in the aero band. (AW)
6745 YL EE Language Numbers Station 0247 USB repeating Charlie India Oscar Two. (KW2) (Mossad -LOGS)
6800 Unid: UTC? AM iyl number sts in s/s 3 numbers grp/2 numbers grp on and on sig s20 end 0339z. (RT2)
6853 Unid: 0032 USB YL/Yiddish/3-2FG (RM)
6880 VKJ: Royal Flying Doctors Service, Meekhatharra, West Australia 0908 USB giving wx details for the area. (AW)
7042.5 Unid 0410 LSB One of the more boisterous Spanish coms I've heard!!! Laughter on top of laughter! (JC5)
7540 Numbers station: 1233 AM "JSR" Phonetic Alphabet (EE/YL/5L) (CK) (Mossad -LOGS)
7581.2 Unid: 1007 CW 5 ltr grps off at 1012 no id. (EW)
7733 Unid: 0631 CW 5 fig groups. second (weaker) station on net using bk wkg. qsl new msg opens "= nr 306 145 17 0927 306 = 72727 38477 69866etc". (DW)
7738 Unid: 1758 CW hand morse. (DW)

7744.2 Unid: 0752 Link-11 net (MC)
7746.7 Egy diplo (rome?) 1833 ARQ atu a tfc (BvR)
7795.5 Unid Pacific islander 1005 USB pp, strength suggest PNG. (AW)
7912 UNID 0355 USB Two guys yakking back & forth in Japanese, occasionally bursting out spontaneously into singing popular songs in EE & songs in JJ. When one guy finished singing a verse, the other guy would key up & clap. Excellent audio characteristics. (TT)
8014 Unid: 1108 USB 0398 1234567890 398 then into 5l/g.1130 repeated all grps end 1150 and off. (EW) (Mike Chace remarked this may be a new CIA "Counting Numbers" station -LOGS)
8048.5 Unid 1930 USB net chatter. Seemed to be working on a computer setup. (JJ)
9320 Numbers station 2020 USB 1om 2020-2117z yiddish. (RT2)
10070 Unid asian. 0615 USB P/P in the aero band. (AW)
10180 Numbers station: 0116 AM YL 5 Numbers Group EE Lang (KW2)
10248 8BY: 0645 CW V marker - VVV VVV VVV 8BY 8BY 8BY 306/076/626/788/313. (AM2)
10262 Unid:USB YL/EE w/3-2F grps (RM)
10454 Unid 1806 LSB VOA feeder nx (RM)
11588 Unid 1535 USB 2 OM unid lang comms. Probably European (RM)
12075 8BY: somewhere in France? 1150 CW This station has changed frequency AGAIN! (JD2)
14295 WA3NAN: 1807 USB shuttle rebroadcast service (CM)
14487 Lincolnshire Poacher, Numbers Station 1810 USB (RB)
Unid 1714 USB YL/EE/5FG in progress (RM)
15661 Unid: 1537 Harris 39 tone modem (3300Hz pilot) (MC)
16038 Unid 1923 USB 2 OM in unid African lang from Bukavu (RM)
16150 unid 1330 USB w/rolling code speech inversion (RM)
18423 Unid: 1429 CW hand morse. (DW)
20340 Unid 1745 USB. 2 OM/unid lang prob European (RM)

Contributors:
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(SW2) Steve Walker, Surray, England: HF225
(TB) Tim Braun, Haymarket, Va, USA: FRG-100
(TD2) Tom Davies, Grahamstown, South Africa: R-70, ZSRX vert. ant.
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(TT) Tim Tyler, Ypsilanti, Mi, USA: Kenwood R5000, Sony SW55, TS50, AR8000, MVT7100
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS Club ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ WUNNEWS Vol. 2, No.07 July, 1996 ////
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majordomo@grove.net and in the BODY of the message type:
subscribe wun your@own.address

If you have problems in this, or need further information contact Rick Baker at: utelistener@msn.com or ae411@yfn.ysu.edu

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN Publishing, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

If you are reading this newsletter from another source, such as a BBS, please let us know!

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From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

WHAT'S INSIDE:

- Membership News by Mike Wolfson
- International Civil Aero by Tony Orr & Peter Ivakitsch
- Ask WUN! by Colin Goodall
- Digital Review by Ary Boender
- The WUN Military Column by Paul Jones
- New Products, Books, News and Reviews by R.D. Baker
- Nautical News by Day Watson
- The QSL Report by Martin Barry
- Surfing the Longwaves by George Karayannopoulos
- Utility Round-up by Ary Boender
- The WUN Logs Column by R.D. Baker & TEAM LOGS

Starting this month Paul Jones takes over with The WUN Military Column and Day Watson has agreed to at least temporarily take over Nautical New until we see if Jim Pogue, who formerly did both columns, is able to come back. Thanks to both for volunteering to lend their time.

==========

MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

Welcome to the WUN Membership News for July. I don't have much to report this month. Membership levels have held steady since June. The current totals are listed below with last month's numbers in parentheses.

WUN	635	(633)
WUN-DIGEST	73	(66)
WUNNEWS	188	(188)
BBS (non e-mail)	147	(147)
PAPER EDITION	41	(40)
Total	1084	(1074)

We also have one new country, Singapore, represented this month. That brings the total to 35. Rick Baker suggested that I go through the member database and survey the receivers used by members. The database contains 174 records. I found at least 112 receivers being used. I say "at least" because I lumped the various versions of the Sony 7600 together and the Lowe 225 was included with the Europa. Anyway, the most popular receiver among WUNNERS was the Kenwood R-5000 (20 users).

Number 2 was the ICOM R-71 (15). Third was the Sony 2010 or 2001D depending on where you live (14). Completing the top ten were: NRD 535 (13), Drake R-8 (12), NRD 525 (10), AOR 3000a (8), Sony 7600 (8), Racal RA 17 (7), Lowe 225 (7), R-390 (7), Yaesu FRG-7700 (7), ICOM R-7100 (6), Kenwood R-2000 (5), and AOR 3030 (5).

I was surprised by the results for 3 reasons. The first surprising point was the number of different receivers being used. The second thing

that surprised me was the number of scanners being used. These include: FRG -9600, ICOM 7000, 7100, 9000, R100, R-1, Yupiteru MVT 7000, MVT 7100, AOR 1000, 1500, 3000a, and 8000. Finally, I was surprised by the number of members who are using ham gear to actively follow utility stations.
Ham gear listed includes: Yaesu FT 707, FT 767, FT 751, FT 757, FT 840, FT 990, Kenwood TS-50, TS-440, TS-840, TS-850, TS-930, TS-940, ICOM 726, 728, 730, 735 and Tentec Paragon.

In coming months, I'm going to do surveys of what kinds of decoding equipment members are using and what the most popular kind of station to monitor among members. If you want to become part of these surveys, please answer the questions asked in the member's survey. Here is the survey:

E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested.

That about does it for July. According to some reports, the next solar cycle has started. That means that conditions should be improving. Yeah, I know I've been saying that for months. It has to happen eventually. I've been spending some time listening lately for the first time in about eight months and have to say that signal levels seem to be up somewhat. I hope that they continue to improve. Mike

==========

INTERNATIONAL CIVIL AERO

Editor: Tony Orr, 11404 Turnmill Lane, Reston, Va, 22091-3618 USA
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Here we go again with another edition of INTERNATIONAL CIVIL AERO for you! Thanks for tuning in again this month, and we thought we'd start off this month's fun with a frequency refresher! Below you'll find a list of ICAO civil frequencies guaranteed to bring you some lively listening. I hope this will help get you started in the fascinating world of civil aero DX! Of course your milage may vary...
This month's AIRLINE NEWS shines the spotlight on the Pacific and Asia, and we round things out with Vic Gubbins and SELCAL CORNER!!!
Please note that Tony has new email addresses and a new postal zip code!

=====

MWARA - Major World Air Route Areas: The Easy Ones
Editor's note: all of the NAT families are fairly easy to hear, and most feature lots of traffic to log.

NAT-A
3016.0 5598.0 8906.0 13306.0 17946.0
Canarias, Gander, New York, Santa Maria, Shanwick

NAT-B
2899.0 5616.0 8864.0 13291.0 17946.0
Gander, Iceland, New York, Santa Maria, Shanwick

NAT-C
2872.0 5649.0 8879.0 13306.0 17946.0
Gander, Iceland, Shanwick

NAT-D
2971.0 4675.0 8891.0 11279.0 13291.0 17946.0
Arctic, Baffin, Bodo, Churchill, Gander, Iceland, Montreal

NAT-E
2962.0 6628.0 8825.0 11309.0 13354.0

New York, Santa Maria
NAT-F
3476.0 6622.0 8831.0 11336.0 13291.0
Gander, Shanwick
CAR-A
2887.0 5550.0 6577.0 6649.0 8918.0 11396.0
13297.0 17907.0
New York and Panama with the occasional appearance by Boyeros will be
the most active ground stations here.
CAR-B
3455.0 5520.0 6586.0 8846.0 11330.0 17907.0
New York and Panama again the most active ground stations.
SAM-C
3479.0 5526.0 8855.0 10096.0 13297.0 17907.0
Belem, Leticia, Manaus, Maiquetia, Porto Velho, and Recife are the stand-
outs. Check 5526 and 8855 for the most action, 10096 comes in third place.
Cayenne and Piarco also make occasional appearances.

SAT-1/SAT-2
5565.0 6535.0 8861.0
Canarias, Dakar, Recife, and Sal are the most active here.
AFI-2
3419.0 5652.0 8894.0
Algiers and Niamey are the star performers here.
AFI-3
5658.0 10018.0 11300.0
Addis Ababa, Asmara, Bombay, Cairo, Jeddah, Khartoum, Nairobi, Seychelles
are the most active among a great many other ground stations, making this
frequency one of the most challenging civil aero DXing experiences!
AFI-4
5493.0 8903.0
Brazzaville, Kano, Kinshasa, Luanda, N'Djamena, and Niamey; what more can
I say?
INO-1
5634.0 8879.0
Antananarivo, Bombay, Jeddah, Lusaka, Male, Mauritius, Perth, Seychelles
SEA-1
5670.0 6556.0 10066.0
Bali, Colombo, Dhaka, Kuala Lumpur, Madras, Male, Perth
SEA-2
5655.0 8942.0 11396.0
Bali, Ho Chi Minh, Hong Kong, Kuala Lumpur, Manila, Singapore
SEA-3
6556.0 10066.0 11396.0
Bali, Jakarta, Perth.
CEP-1/2
2869.0 3413.0 5547.0 5574.0 8843.0 11282.0
13261.0 17904.0
Honolulu, San Francisco
CWP-1/2
2998.0 4666.0 6532.0 6562.0 8903.0 11384.0
13300.0 17904.0
Guam, Hong Kong, Honolulu, Manila, Naha, Port Moresby, Seoul,
Taipei, Tokyo
NP-3/4
2932.0 5628.0 5677.0 6665.0 8915.0 10048.0
13294.0 13339.0 17904.0 17946.0 21925.0
Honolulu, San Francisco, Tokyo
SP-6/7
5643.0 8867.0
Auckland, Brisbane, Honolulu, Nadi, Tahiti.

AIRLINE NEWS
==========
This month we shine the ICA spotlight on the Asia/Pacific area:
EMIRATES has received the first two of its Boeing 777's and has placed
them into service on the following routes: Dubai-London Heathrow EK001
and LHR to Dubai EK002 both daily services; EK068 from Dubai to Singapore

and Melbourne operating on Tues/Thurs/Sat, and the return EK069 on Wed/Fri /Sun. The registrations of the two 777's delivered so far are A6-EMD and A6-EME.
CHINA EASTERN has started nonstop Shanghai-LAX service with their new Airbus A340 aircraft. MU583 SHA-LAX except Thursdays/Sundays and MU586 LAX-SHA operating on Tues/Sats. Via Beijing MU584 routes from LAX to Shanghai on Mondays/Wednesdays/Fridays. I know you did not miss this one, but I did!
Effective 14 May NORTHWEST began daily 747 nonstop between JFK and Amsterdam: NW642 JFK-AMS dep 1820 arr 0730+1, and the return NW641 dep 1020 arr 1215.
BRITISH MEDITERRANEAN has commenced nonstop Heathrow-Bishkek, Kyrgyzstan A320 service, Tuesdays from LHR dep 2105 and arriving FRU 1040+1 (KJ105), and the return (KJ104) dep FRU 0315 and arriving LHR 0630 on Thursdays.
Effective 27 July VASP begins service from Sao Paulo to LAX then on to Osaka's Kansai International with the following schedule: VP894 LAX-KIX on Saturdays dep 1245 and arr 1705+1, and on Tuesdays dep 1145 arr 1555+1. The return VP895 is effective 28 July and on Sundays departs KIX 2000 and arrives LAX at 1450, on Wednesdays the schedule is departing KIX 2100 arriving LAX 1550. VASP also operates from Los Angeles to Seoul with VP896 departing LAX 0830 arr SEL 1345+1 on Mondays/Wednesdays, and the return VP897 departs SEL 1750 arriving LAX at 1320 on Tuesdays/Thursdays. All of these VASP flights are operated by MD11s. EVA AIR is now operating a thrice-weekly Brisbane-Auckland 767-300ER service, BNE-AKL is BR365 and BNE-AKL is BR366. Flights operate on Tues/Thurs/Sat. SINGAPORE AIRLINES has placed its new A340's on routes from Singapore to Jakarta (SQ154), Jakarta-Singapore (SQ156). SQ227 operates Singapore-Melbourne dep 2140 arr 0655+1 daily, and SQ228 MEL-SIN departing 1345 arriving SIN 1930; SQ220 Sydney-Singapore departing 0830 arriving 1440 and SQ219 departing SIN 1000 arriving SYD 1925, both are daily services. The Singapore-Bangkok run is operated as SQ66 and the Bangkok-Singapore segment is operated as SQ67 also by A340s. EGYPTAIR has its A340 placed on routes to Osaka-Kansai from Cairo: MS862 on Sundays and MS863 Osaka-Cairo on Mondays, MS860 Cairo-Singapore-Sydney on Tues/Fri, the return MS861 operates on Wed/Sat SYD-SIN-CAI. Not to be outdone to Asia and the Pacific is GULF AIR whose A340s ply the Bahrain-Singapore-Sydney routes as follows:
GF148 Bahrain-Singapore-Sydney (Mon/Wed/Fri/Sat)
GF149 Sydney-Singapore-Bahrain (Tues/Thurs/Sat/Sun)

CATHAY PACIFIC has placed its Airbus A340s on these routings:

CX104	Melbourne-Hong Kong	dep 1250	arr 2015	except Wednesdays/Sundays
CX105	Hong Kong-Melbourne	dep 2315	arr 1010+1	except Tuesdays/Saturdays
CX480	Hong Kong-Sapporo	dep 1020	arr 1600	Thursdays
		dep 1325	arr 1920	Sundays
CX481	Sapporo-Hong Kong	dep 1000	arr 1400	Mondays
		dep 1700	arr 2100	Thursdays
CX776	Jakarta-Hong Kong	dep 1540	arr 2115	except Mondays/Fridays
CX777	Hong Kong-Jakarta	dep 1010	arr 1330	Tues/Wed/Thurs/Sat
		dep 0955	arr 1330	Sundays
CX828	Hong Kong-Toronto	dep 1525	arr 2110	Daily/1 Stop
CX829	Toronto-Hong Kong	dep 2355	arr 0640+2	Daily/1 Stop

THAI AIRWAYS INTERNATIONAL has the Boeing 777 in operation on these flights:

TG628	Seoul-Hong Kong-Bangkok	dep 1030	arr 1420	DAILY
TG629	Bangkok-Hong Kong-Seoul	dep 1530	arr 1710	DAILY
TG656	Bangkok-Seoul	dep 0130	arr 0845	x Wed/Fri
TG657	Seoul-Bangkok	dep 2100	arr 0030+1	x Tues/Thurs

** SELCAL CORNER ** BY VIC GUBBINS
==========
Hello All and welcome to another edition of the Corner. Sadly, no news at all was received this month so I have just listed some new ones of my own which I received c/o "The Monitor" - thanks again lads!

BM-GP	HB-IIC	B737 TSW
CG-AH	N504MG	B727 CCP
CQ-BL	A40-GH	B767 LOT
DG-CL	N105CK	L1011 CKS
DG-PS	N840AB	A310 AJM
DR-AP	OO-SCW	A310 SAB

EF-GK	EC-262	B737 AEA
EG-BK	EC-GHF	B737 AEA
EH-AG	VR-HME	B747 AHK
EH-LP	EC-FTU	MD80 SPP
EH-LR	OO-STF	B767 SLR
EK-CL	N852AX	DC8 ABX
EP-HR	TC-APA	B737 IST
HM-BR	A6-EME	B777 UAE
JL-GM	G-OBMN	B737 AMM
JR-AC	G-OBYA	B767 BAL
JR-AD	G-OBYB	B767 BAL
JR-AE	G-OBYC	B767 BAL
JR-AF	G-OBYD	B767 BAL
KS-BJ	EC-GGV	MD80 SPP
KS-CE	G-RRJE	A320 AIH
KS-GR	CS-TGP	B737 SAT
LS-CM	EC-FKJ	B737 AEA
MS-EH	9Y-BWA	A321 BWA

And that's your lot - where would we be without you British guys eh?
Till next month then
73s.....Vic

Well we're out of room for yet another month. Next month we'll highlight the BAe 146 on HF, and bring you the rest of the best of International Civil Aero!

==========

ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor

****

This new section is here to deal with requests for help and information to and from WUN members. This column is for you to ask questions; to locate others with similar interests (even non-HF like SatCom or VHF aero); to locate or sell equipment; to ask about receiver problems, or to just ask about anything. If you have a question to ask then ask it via this new section.

****

Send your requests to:- colin.goodall@sspdl.co.uk. Or by mail to C.F.Goodall, Stoneway, Hazleton, Gloucestershire, GL54 4EB, UK.

****

IF YOU WANT TO REPLY TO AN ADVERT NOTE THE SENDERS ADDRESS AND REPLY DIRECT OR SEND THE ANSWER TO THIS COLUMN.

****

1. FOLLOW UP TO PREVIOUS NEWSLETTERS
****

From: Barry Stone <g6sre@kentnet.co.uk>
Subject: Computer Hash

Colin,

Firstly thanks to all the people who took the trouble to e-mail me with ideas to quiet my set-up. I have tried all of them over the last few months, new balanced aerial (Thanks Paul) different screen resolutions, separate earth for the radio etc. unfortunately none of which reduced the hash to a level that I could work HF data modes.

But I think I have finally solved the problem. I am feeding the computer through a good quality filtered mains outlet and had added clip-on ferrites from Radio Shack to the mains lead at both ends which I had thought would stop any RF from that direction, but while reading another suppliers catalogue looking for inspiration I noticed that they list the same clip-on ferrites as cutting interference from 300MHz upwards so I removed them and put 4 turns of the mains lead through a 1 inch ferrite ring which I guessed would be more effective at lower frequencies. When I turned everything back

on 90% of the noise was gone!!! Checking through the bands the improvement is not quite so much below about 4.5 MHz but I think a larger ring and a couple of extra turns should help.

Thanks again for all the help and I hope this may be useful to other people. Best wishes, Barry G6SRE.

Well done Barry and thanks for letting us all know the outcome.

.....

2. HELP WANTED
****

From: Ingvar Ohlsson <ingvar@canit.se>
Subject: RAF

Hello Colin,
Any answers on the following questions would be much appreciated.
Q1: What is the collective callsign used by STCICS/"Architect" during the "colour- state WX" transmx?, I have listened to this many times without being able to figure it out, it goes something like this: "?????? ?????? this is ARCHITECT ARCHITECT actual(?) colour states time nnnn zulu....."
Q2 is the ?????? callsign always the same, or changed during day?
Q3 during contacts sometimes "standard relay kilo" and "standard relay Lima" is mentioned by the a/c-op, what is this?

Regards, Ingvar

The answer to question 1 Ingvar, is CELEBRITY, CELEBRITY, which seems to be a general callsign. Anyone know exactly what it means? I think the callsign stays the same all day. Also I have heard STANDARD RELAY PAPA. Anyone got more info??

.....

From: dwgenti@globalnet.co.uk (David W. Gentile)
Colin,

I have a few questions that I would like to get answers for! I have been in this hobby for the past 5 years, but I am a real amateur when it comes to traffic analysis. I've got enough frequency guides and other bit's and bob's lying around to help me, but for the most part I'm in it for the Bit's! So outside of the world of 1' and 0's, I wish to understand the following stuff concerning Call Signs:

1) Why is it that frequency guides (Klingenfuss, Ferrel's, etc...), always seem to have call signs contrary to what the station actually broadcasts? For example; I have logged Gdynia Radio as SPA, since that is the c/s passed in tfc, but the freq guides say that this "proper call" is SPA22. How do they know that it is SPA22? Do I need to monitor this guy during a special time of the day or something to catch him passing his "real" c/s? I have looked up Gdynia Radio in my ITU List of Call signs and Numerical Identities of Stations Used by the Maritime Mobile-Satellite Services (whew! try saying that three times fast), and they have 12 different listings for SPA (one, in fact, is for Gdynia only as opposed to Gdynia Radio, why that is I don't know!). I have seen this phenomena many times when it comes to fixed maritime stations, and it has always confused me.

2). Those freq guides also have generic locations for certain c/s, that seem to contradict the ITU Alphabetical List of Call Signs that I have. I posted a message on the French Naval station FUB, about a month ago. In it, I said that the location listed in the ITU guide was Houilles France. Now all of the freq guides (excluding PC Frequenz), listed this c/s as being the French Navy, Paris. Soooo, my question is; who is right? Or is it something like this; The user is the French Navy HQ located in Paris, but the actual transmitter is in Houilles OR Houilles is actually a suburb of Paris and therefore FUB qualifies as being located in "Paris".

Well I Thank You for accepting my ranting's this month, and will write again the next time I start foaming at the mouth!

Best Regards, Dave Gentile

Now, I have noticed this also; who are the "OFFICIAL" keepers of all

call signs? Does anyone actually check on the use of call signs or is it just left to individual Nations and Companies to stay within the guidelines? Lots of info needed here chums.

NOTE TO OTHER POTENTIAL CORRESPONDENTS:-
It is not obligatory to be foaming at the mouth in order to ask a question via this column. Any facial expression is welcome.

.....

3. FOR SALE
****

o Optoelectronics Scout 40 new $350. Extras: case, CD-ROM, cables, manuals, power supply Sherwood SE-3 Mk III Synchronous Detection $300 new. Extras: manual, cables Sony AN-1 active antenna $30 +postage. good shape. all parts. Respond to Jim Kilgallen at email- 73024.205@compuserve.com.

o JRC NRD-525 with 5, 2, 1, .5 hz filters rack mounted in a NOVEX 19" rack mount with speaker, manual $650.00.
Kenwood R-5000 in NOVEX 19" rack mount with speaker, also will toss in the matching SP-430 outboard speaker, service guide $650.00.
Kenwood R-2000 in NOVEX 19" rack mount, manual, great program and SSB radio, $425.00.
Universal M-7000 RTTY decoder with Video FAX capability, rack mount ears included, manuals, amber Magnavox composite monitor, $700.00.
Infotech M-610 RTTY Oscilloscope (1.5" view screen), nice complement to M-7000 for detailed tuning--a rarity! Manual. $100.00.
Koyo TVM-96-2 10" composite monitor, extremely well shielded, in original box, $100.00.
Microdec MD-200 standalone RTTY decoder (decodes CW, RTTY@ 4 different speeds, SITOR A & B) with rechargeable internal battery pack. Custom tuning controls done by Microdec (one of a kind), battery charger. A good self-contained field RTTY unit. $120.00.
JPS NIR-10 Noise reduction filter. Seldom used, mint condition. $120.00.
JPS ANC-4 noise limiter. Current model, never used. $120.00.
HOKA Code 3 Ver. 5.0 with ALL features, manual. A great little unit which connects to a serial port (RS-232). $350.00.
All prices include shipping via UPS ground. Quicker shipping is available at additional charge. Please respond to Chuck Yarbrough, at wampus@www.valuu.net, or snailmail at Rt.1, Box 541-42, Valdosta, Georgia 31602 USA. Or by phone (912)247-2718 voice, (912)245-0185 fax.

****
And that brings us to the end of another programme.

Till next time,

Colin.

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DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Howdy y'all ! Welcome to the 19th edition of the Digital Review. A long column this month, so no time for small talk.
Those who contributed... T H A N K S !!! It is much appreciated ! -Ary-

Digital Round-up
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o Offenbach Meteo now definitely stopped its transmissions on LW.

o Shortly after I noticed an uncommon NAVTEX transmission from Oostende Radio, I received a note from Day Watson that he logged them as well. Ronny Peeters from Belgium asked Oostende for details and this is what he got: Oostende Radio has a new NAVTEX service. Transmission times on 518 kHz: 02.00, 06.00, 10.00, 14.00, 18.00 and 22.00 UTC, id 'M'. The service is a partnership between Oostende, Cullercoats and Land's End

Radio. The reception of the English stations is very bad in the Dover Strait, therefore Oostende Radio also relais the Dover Straits reports as a seperate service to it's normal NAVTEX service. The latter can be copied at 02.48, 06.48, 10.48, 14.48, 18.48 and 22.48 UTC, id 'T'. Tnx Ronny !

o 81-81 system. This item slipped through last month. It wasn't meant to be published folks. The Railway part is not correct. As far as we know the system is mainly used by the military. The 40.5 variant is used by the navy and probably also by other Russian military forces.

o Murray Lehman (alwyn@starwon.com.au) sent us an update to the circuits list in the May newsletter. Tnx Murray !
5ST has made two minor frequency changes 4014.5 to 4012 and 7834.5 to 7831.5 kHz.

KHz	QTH	Mode	ICAO	C/S	CCT	TO
4125	Vientiane	ITA2 50/170	VLVT	XWI		
4787	Doula	ARQ-M2 96/425	FKKK	TJK	KFA	Brazzaville
5129	Dhaka	ITA2 50/850	VGZR	S2D	DBA	Bangkok
5334	Jibouti	ITA2 50/425	HFFF		HVA	Addis Ababa
5740	Anta'rivo	ITA2 100/425	FMMM	5ST		
6745	Yeniseysk	ITA2 50/425	UNII		ETG	Tura
6877	Addis Aba	ITA2 50/425	HAAA	ETD3		
6878	Asmara	ITA2 50/850	HAAS	ETS		
8074	Ho Chi Minh	ITA2 50/85	VVVS	XVZ	VLA	Vientiane
10132	Brazzaville	ITA2 50/650	FCCC	TNL	FSA	Sao Tome
11509	Gaborone	ITA2 75/850	FBGR	A2SK		

o Roger shares the following ammendmends:

Code	Transmit	Call	Receive	Mode	Frequency
M**	Santa Maria	CSY		ITA2/50/850	3175
S**	Khartoum	STK		ITA2/50	4491.5
DIA	Douala	TJK			4788
U**	Cotonou	TYE			5117.5
L**	Tripoli	5AF			5317.5
BDA	Bangkok	HSD	Dhaka	ITA2/50	5426
GIA	Accra	9GC	Abidjan	ITA2/50/400	5804
VBA?	Ouagadougou	XTU		ARQ-M2 342 96b 2 ch	6775
UNA	Cotonou	TYE	Niamey	ARQ-M2 342 96b 2 ch	7552.5
	Conakry	3XA		ITA2/50	7610
IBA	Abidjan	TUH	Bamako		7690
	Douala	TJK		ARQ-M2 342 96b 2 ch	7714
MTC	Moroni	D6Z	Antananarivo	ARQ-E3 48b	7763.5
L**	Lusaka	9JZ	Livingstone	ITA2/50	7913
	Livingstone		Lusaka	ITA2/50/400	8137.5
PTA	Plaisance	3BZ	Antananarivo	ARQ-E3 48b	9378.5
V**	Addis Ababa	ETD3		ITA2/50	9873.5
	Conakry	3XA		ITA2/50	10102.5
B**	Bamako	TZH		ITA2/50	10134
	HoChiMinh Ville	XVZ		ITA2/50	10144
	Dakar	6VU		ITA2/50	10407
V**	Addis Ababa	ETD3		ITA2/50	10417.5
	Asmara	E3S		ITA2/50	10418.5
MSA	Santa Maria	CSY	Shannon	ITA2/50	10539.6
DBA?	Dhaka	S2D	Bangkok?	ITA2/50	10613
BDA	Bangkok	HSD	Dhaka	ITA2/50	10654.3
I**	Abidjan	TUH			11486
FKA	Brazzaville	TNL	Douala	ARQ-M2-342 96b 2ch	12072.5
BDA~	Usumbura	9UA			13870
SKA	Khartoum	STK	Nairobi	ITA2/50	13996.5
CMA	Sal	D4B	Santa Maria	ITA2/50/400	14507.5
Z**	Kinshasa	9PL			14786.5
K**	Nairobi	5YD			14845.5
LSA	Tripoli	5AF	Khartoum	ITA2/50/400	19822.5

Route Indicators revisted (the continuing story.....)

RTTY monitors and route indicator (RI) hunters regularly ask me to clarify the format of the messages. Well, most of the 'things to know' were already explained in earlier columns. See also newsletters vol.1 nrs 7 and 11 and vol.2 nrs 1, 2 and 4 (Rick's new products column). My special thanks goes to Torsen Illgner for all his help.

This article handles the basic NATO-message-format, a standarized form for all traffic between NATO-units, commands, stations and services. Because automation became more and more important it was necessary to standarize the form of all messages so that they could be processed by using self-correcting computer-telex-nets.

There are RIs in each message. A RI shows the destination of a message in a telex-network. They contain information about the sender and receiver like the country of origin and operational area. A typical RI consists of 4 to 9 characters. They are used to speed up the routing of a message.
Example: The HMS VINCINITY has a message for a state side station. The radio operator puts the message in a standard format and uses a RI for the correct address. He then transmits it to the nearest land station, say Faslane (MGJ). The radio-managing-system at Faslane "reads" the message RI and sends it automatically to the right station; via a computerized telex-network.
Each standard message consists of so-called 'format lines' (FL). There are 16 of those format lines possible. There is a difference between the format lines in a CW and a RTTY message.

Example:

```
VZCZCEAD035
PP RGFDEA RGFBPJ
DE RGFDEACF 4711 0051245
ZNR UUUUU
PR 051231Z JAN
FM FGS ROMMEL
TO RGFDEA/NAVCOMMCEN WILHELMSHAVEN
INFO RGFBPJ/2(GE)DESSQN
BT
UNCLASS
SIC SVC
MSGNR 4711
INT ZDK X21E 421/429/447/449/450
BT
(8 empty lines)
NNNN
```

This message similates traffic from FGS Rommel to NavCommCen Wilhelmshaven via RTTY. So, how can we translate this stuff ???

FL-1 This line contains the startup-procedure for telex-networks. If a message is sent via HF it contains information of the message's classification.

FL-2 PP RGFDEA RGFBPJ: These are the RIs of the addressees. PP means that this is a PRIORITY-message.

FL-3 DE RGFDEACF 4711 0051245: RGFDEACF means that the originator is copying DHJ59 HF-frequencies. 4711 is the originator's message number, 0051245 is the julian date and time-group (DTG), the so called filing time.

FL-4 ZNR UUUUU: Security-advice. There are five classifications:
ZNR UUUUU is used for unclassified messages
ZNY RRRRR for restricted messages
ZNY CCCCC for confidential messages
ZNY SSSSS for secret messages
ZNY TTTTT for top secret messages

FL-5 PR 051231Z JAN: Here are the priority codes again. Four priority codes can be used to indicate the time of delivery: R,P,O,Z. (R=routine, 24 hours of delivery, P=priority, 1-6 hours, O=immediate, 30-60 minutes, Z=flash, not longer than 10 minutes). 'To' and 'Info' addresses often have different priority codes.
Following is the DTG in ZULU-time (Z). The DTG consists of DDHHMMz MONTH. Zulu means time at time zone ZULU (equals GMT/UTC).

FL-6 FM FGS ROMMEL: From-line, indicates the originator of the following message.

FL-7 TO RGFDEA/NAVCOMMCEN WILHELMSHAVEN: Action addressee.

FL-8 INFO RGFBPJ/2(GE)DESSQN: Information-addressee (2nd German destroyer-squadron)

FL-11 BT, seperates the address-part (FL 1 - 10) from the message-index (FLs 12 a - g).

FL-12 a) UNCLASS: Unclassified message (often clear text)
b) SIC SVC: SIC-code, SVC = Service, for radio operators.
c) MSGNR 4711: originator's message number
g) INT ZDK X21E 421/429/447/449/450: Message-text. FGS ROMMEL requests DHJ59 to repeat transmission of X21E-messages 421, 429, 447, 449 and 450.

FL-13 BT, end-seperation

FL-15 EOM (end of message) procedure (8 line-feeds) and NNNN (endsign)

In FL-7 you may find AIGs (Address Indicating Groups) of max. 4 figures (eg AIG3485). An AIG contains at least 10 fixed addresses. They are used to direct messages to multiple receivers without mentioning them all separately. At the moment there are about 8500 AIGs effective. Germany's naval forces are using AIGs 3300-3499.

The above given message is a so called plaindress. Sometimes plaindress messages are shortened, skipping FL-5. All classified stuff is however encrypted. NATO uses the AROFLEX encryption system (5-letter groups) for their 'codress' messages. FLs 6, 7, 8, 9 are then left out; they are included in the encrypted message.

Sources: ACPs (Allied Communication Plans) 117, 121, 124, 127 and 176, Radio Navigational Aids and national regulations.

o More military stuff
In the May newsletter, Day explained a number of VFT systems. Torsen mailed me some ammendmends and corrections: ''The encrypted data speed is normally 75bd but may be increased to 100bd when there are urgent messages. The on-line encryption starts with a 300 to 350bd phasing signal followed by arithmetic synchronisation in 75bd. You may hear DHJ59 in voice and VFT on 2625, 4145.5, 6779, 8335.5, 10192.5, 10197, 12178, 12415.5, 15929, 16129 kHz. On 6731 you may hear DHJ59 in voice but NEVER in VFT, occasionally there is encrypted RTTY on that frequency but that doesn't happen very often.''

Peter from the UK shares a bunch of identifiers with us. Amongst them are a couple of IFOR and SHAPE identifiers.

ACFHAW/CENTMOB TARASCON	RBSPMB/ARRCMAIN SARAJEVO
RBSPOD/MNDSEMAIN MOSTAR	RFFBBYM/DIVFRIFOR MOSTAR
RFFBBYM/MOUVTRPDIVFRIFOR MOSTAR	RFFBBYM/REGSOUTFRIFOR MOSTAR
RFFCCHK/MMFRANCE SHAPE	RFFCCHT/REGINFMA SISSONNE
RFFCCN/CENTMOB LAON	RFFCCV/REGARTIMA LAON COUVRON
RFFDBA/REGINFMA AUVOURS	RFFDBC/REGSOUT NANTES
RFFDBN/CENTINSFORPRO FONTENAY LE COMTE	RFFDCC/CENTMOB RENNES
RFFDCL/REGARTIMA LA LANDE D'OUEE	RFFDCT/REGINFMA VANNES
RFFEBC/REGPARAMA BAYONNE	RFFEBC/REGPARAMA MONT DE MARSAN
RFFGCI/COMLOG UN METZ	RFFGDM/CENTMOB SEDAN

```
RFFHAC/CENTMOB BEZIERS                  RFFHCC/REGINFMA MARSEILLE
RFFHDU/REGINFMA QUATRE FREJUS           RFFHDU/REGINFMA VINGT ET UN FREJUS
RFFHDW/REGARTIMA CANJUERS               RFFKHOF/COMSOUTFRIFOR PLOCE
RFFSYRA/COMDAIRFRIFOR OSTAK             RFFSYRA/COMDETAIRFRIFOR MOSTAR
RFFSYRA/COMDETAIRFRIFOR MOSTAR          RFFSYRC/COMAIRFRIFOR VICENZA
RFFSYRC/COMAIRFRIFOR VICENZA            RFFUGO/AIR MOYENOPS ORANGE
RFFVG/AIR CLA MERIGNAC                  RFFVG/AIR MOYENOPS MERIGNAC
RFFVG/CENTELECOMAIR MERIGNAC            RFFVG/REGIONAIR DISTRANSIT MERIGNAC
RFFVK/CENTCOM CASSIC VILLACOUBLAY       RFFWBC/REGINFMA ANGOULEME
RFFWEM/REGPARAMA CARCASSONNE            RFFWEQ/GROUPCAMP REGINFMA CAYLUS
RFFXHCF/COMFRANCE SARAJEVO              RFFXHCF/COMFRANCE SARAJEVO
RFFXHCF/COMSALAMANDRE SARAJEVO          RFFXHCF/DETFRIFOR SARAJEVO
RFHHHC/DETSMA HAO                       RFHIB/BATSERV NOUMEA
RFHIBQ/REGINFMA NOUMEA                  RFHWWC/DETSMA HIVA OA
RFHWWC/GROUPSMA PAPEETE                 RFHWWK/REGINFMA PAPEETE
RFLIA/REGINFMA FORT DE FRANCE           RFLIA/REGSMA FORT DE FRANCE
RFLID/BATINFMA POINTE A PITRE           RFLID/REGSMA POINTE A PITRE
RFLIG/REGINFMA CAYENNE                  RFLIG/REGSMA CAYENNE
RFLIGE/GROUPSMA ST JEAN DU MARONI       RFQPT/BATSERV DJIBOUTI
RFQPT/REGINTERAM DJIBOUTI               RFTJD/BATINFMA LIBREVILLE
RFTJF/BATINFMA PORT BOUET               RFTJR/BATINFMA CAP VERT
RFVIT/BATSERV ST DENIS REUNION          RFVIT/REGSMA ST DENIS REUNION
RFVITX/REGPARAMA PIERREFONDS            RXFPSH/SHAPE
```

CARB / Availability messages

Very common on shortwave are the stations of the Royal Navy (MTO, GYA, MGJ). Their 75bd RTTY availability messages are well-known to virtually every dxer. Not only the RN but also the Dutch Royal Navy (PBB, PBC) and the Italian Navy are transmitting this stuff. Although CARB (Channel Availability and Readability Broadcast) is a NATO system, virtually each country uses its own codes. But what is the meaning of these messages ? Let's take a closer look at a RN transmission:

02D 03B 04B MTO	This is a part of the normal string.
02D 03B 04Boo MTO	A ship requested traffic on channel 04B. MTO acknowledges by switching the channel to BUSY.
02D 03B 04Bae MTO	MTO asks for Crypto and RATT tests. The callsign of the ship is 'A'.
02D 03B 04Boo MTO	While the ship transmits the tests, MTO switches the channel to BUSY again.
02D 03B 04Bak MTO	MTO acknowledges receipt of the tests and tells the ship that traffic may be sent.
02D 03B 04Boo MTO	While the ship transmits its messages, the channel is BUSY.
02D 03B 04Bar MTO	MTO confirms receipt of the message.
02D 03B 04Boo MTO	Channel will be closed now.
02D 03B 04B MTO	Channel is free again.

Only recently the Italian Navy have been copied using the CARB system. Note the 4 MHz mark is followed consistently by some letters the first of which is letter the 'E'. IGJ is working an Italian ship using the indefinate call sign 'E' on the traffic channel. The remaining letters will indicate the instructions to 'run test', 'send traffic', 'qsl', or 'repeat' IGJ is only reacting to the ship on 4 MHz. The ship will send encrypted traffic with its identity inside the encryption. <copied by Day Watson>

```
 8Mc      4Mc      6Mc
igj44   /igj42 o /igj43   /o
igj44   /igj42 op/igj43   /
igj44   /igj42eu /igj43   /
igj44   /igj42ek /igj43   /
igj44    igj42e  /igj43   /
igj44   /igj42eo /igj43   /o
igj44   /igj42em /igj43   /
igj44   /igj42emi/igj43   /
igj44   /igj42eo /igj43   /o
igj44 o /igj42em /igj43   /    Now a ship has called on 8 MHz to which
```

```
igj44co /igj42em /igj43   /    IGJ is reacting on the appropriate channel
igj44ct /igj42em /igj43   /    mark. Note the consistent letter. This
igj44co /igj42em /igj43   /    time C - ship using indefinate callsign C
igj44coh/igj42em /igj43   /
igj44co /igj42em /igj43   /o   IGJ is continuing to work E
igj44co /igj42ev /igj43   /
igj44co /igj42em /igj43   /o
igj44ct /igj42ev /igj43   /o   and no-one is using the 6 MHz ship channel.
igj44coh/igj42eo /igj43   /o
igj44col/igj42eo /igj43   /
igj44co /igj42em /ihj43   /
igj44co /igj42eo /igj43   /o
igj44coh/igj42eo /igj43   /
igj44cop/igj42eo /igj43   /
igj44co /igj42er /igr43   /o
igj44col/igj42e  /igj43   /
igj44cot/igj42er /igj43   /o
igj44co /igj42er /igj43   /o
igj44co /igj42ej /igj43   /
igj44co /igj42er /igj43   /
igj44co /igj42   /igj43   /o
```

Diplo corner

Check out these URLs for embassies and consulates on the web:
http://www.xs4all.nl/!airen/index.html
http://www.embpage.org/foreign.html

DGPS update

Until now all Differential GPS (DGPS) stations operated on LW and MW but now they also moved to satellite. OMNISTAR developed the new system. Here is a summary of the info that I received from them.

o The OMNISTAR system provided by OMNISTAR, INC. is a nationwide fulltime differential GPS broadcast system delivering corrections from an array of base stations positioned throughout North America. Trimble model 4000 SSE receivers at the base stations provide RTCM-104 version 2 corrections over VSAT and leased lines. Each site also has a dial-up line to serve as backup to the VSAT and leased line, and to allow control of the receiver. Data from the base stations flows to the Network Control Center (NCC) near Houston, Texas where the RTCM corrections are decoded, checked, and re-packaged in a highly efficient format for broadcast. The data modulate a spread-spectrum sequence that is then upconverted for transmission to a C-band communications satellite.
  The satellite broadcast is received at the user's location by an Omni antenna and down-converter system, demodulated, and passed to a processor that reformats the data into corrections for use in a user's GPS differential-capable receiver. In OMNISTAR the corrections from several sites are combined in processor software to produce an optimal correction for the user's location. The resulting corrections are recast as RTCM-104 version 2 corrections for direct application to a user's receiver.

o Following the Radio Navigation series, several people asked me to update and extend the list of active LW stations. OK, this is what I compiled. The list was last updated July 3, 1996. All transmissions are in MSK mode. Additions/corrections are most welcome.

Location	Frequency	Baud	Range	Status
United States				
Alexandria, VA	305	100	35	Testing Center
Cape Canaveral,FL	289	100	200	On-line
Cape Henlopen, DE	298	200	180	On-line
Cape Henry, VA	289	100	130	On-line
Charleston, SC	298	100	150	On-line
Chatham, MA	325	200	95	On-line
Fort Macon, NC	294	100	130	On-line

Miami, FL	322	100	75	On-line
Montauk Pt., NY	293	100	130	On-line
NSA Brunswick, ME	316	100	115	On-line
Portsmouth, NH	288	100	100	On-line
Sandy Hook, NJ	286	200	100	On-line
Wildwood, NJ	301	200	75	Testing Center
Aransis Pass, TX	304	100	180	On-line
Egmont Key, FL	312	200	210	On-line
Galveston, TX	296	100	180	On-line
Key West, FL	286	100	110	
Mobile Pt., AL	300	100	170	On-line
New Orleans, LA	293	200	170	On-line
Puerto Rico	295	200	125	
Cheboygan, MI	292	200	110	On-line
Detroit, MI	319	200	100	On-line
Milwaukee, WI	297	100	140	On-line
Neebish Is., MI	309	200	60	On-line
Saginaw Bay, MI	301	100	85	On-line
Sturgeon Bay, WI	322	100	110	On-line
Upper Keweenaw,MI	298	100	130	On-line
Whitefish Pt., MI	318	100	80	On-line
Wisconsin Pt., WI	296	100	40	On-line
Youngstown, NY	322	100	150	On-line
Cape Mendocino,CA	292	100	180	On-line
Fort Stevens, OR	287	100	180	On-line
Pigeon Point, CA	287	100	180	On-line
Point Arguello,CA	321	100	180	
Point Blunt, CA	310	200	60	On-line
Point Loma, CA	302	100	180	On-line
Robinson Point,WA	323	200	60	On-line
Whidbey Is., WA	302	100	90	On-line
Annette Island, AK	323	100	170	On-line
Cape Hinchenbrook	292	100	120	
Cold Bay, AK	289	100	180	On-line
Gustavus, AK	288	100	170	On-line
Kenai, AK	310	100	170	On-line
Kodiak, AK	313	100	180	On-line
Patato Pt., AK	298	100	100	
Kokole Point, HI	300	200	300	On-line
Upolo Point, HI	285	100	170	On-line
St Louis, MO	322	200	140	On-line
Vicksburg, MS	313	200	140	On-line
Memphis, TN	310	200	140	On-line
St. Paul, MN	317	200	150	On-line
Millers Ferry, AL	320	200	150	On-line
Alma, WI	317	200	150	On-line

Canada

Point Atkinson, BC	320	100	On-line operational testing
Race Rocks, BC	309	100	On-line operational testing
Triple Island, BC	308	100	On-line operational testing
Point Petre, Ontario	303	100	On-line operational testing
Cardinal, Ontario	396	200	On-line operational testing
Trois Rivieres, Quebec	321	100	On-line operational testing
Lauzon, Quebec	309	200	On-line operational testing
St. Jean sur Richelieu, Quebec	296	200	On-line operational testing
Partridge Island, NB	311	200	On-line operational testing
Western Head, NS	312	100	On-line operational testing
Point Escuminac, NB	319	200	On-line operational testing
Fox Island, NS	307	200	On-line operational testing
Cape Race, NFLD	288	200	On-line operational testing
Port Aux Basques, NFLD	290	100	On-line operational testing
Pistolet Bay, NFLD	317	100	On-line operational testing

Australia

Karratha	304	100	??	Operational
Cape Schanck	314	100	??	Operational

Sweden				
Almagrundet	287	100	191	Operational
Bjuroklubb	303.5	100	217	Operational
Hjortens Udde	297	100	164	Operational
Hoburg	302	100	164	Operational
Kullen	293.5	100	217	Operational
Orskar	291.5	100	164	Operational
Skags Udde	306.5	100	217	Operational
Estonia				
Ristna	307	100		Operational
Norway				
Faerder	288	100	160	Operational
Halten	313.5	100	160	Operational
Lista	301	100	160	Operational
Skomvaer	300	100	160	Operational
Svinoey	293.5	100	160	Operational
Utsira	307	100	160	Operational
Utvaer	300	100	160	Operational
Vardo	307	100	160	Operational
Netherlands				
Ameland	299.5	100	198	Operational
Hoek van Holland	287.5	100	163	Operational
Iceland				
Bjargtangar	289	100	350	Operational
Djupivogur	295.5	100	350	Operational
Raufarhofn	301.5	100	350	Operational
Reykjanes	292.5	100	430	Operational
Skagata	304.5	100	350	Operational
Skardsfjara	313	100	350	Operational
Greenland				
Blaavandshuk	296.5	100	180	Operational
Germany				
Mainflingen (DCF42)	123.7	300	600	Operational
Helgoland	313	200	260	Operational
Wustrow	314.5	200	190	Operational
Finland				
Mantyluoto	298	100	180	Operational
Outokumpu	293.5	100	100	Operational
Porkkala	285	100	160	Operational
Puumala	301.5	100	100	Operational
Faroe Islands				
Skagen	298	100	180	Operational
Denmark				
Hammer Odde	289	100	180	Operational
Belgium				
Oostende	311.5	100	155	Operational
United Kingdom				
Butt of Lewis	289.5	100	129	Encrypted
Flamborough	302.5	100	129	Encrypted
Girdleness	311.5	100	129	Encrypted
Lizard	284	100	129	Encrypted
North Foreland	310.5	100	129	Encrypted
Point Lynas	304.5	100	129	Encrypted
Rhinns of Isl	293.5	100	129	Encrypted
St. Catherines	293.5	100	129	Encrypted
Sumburgh	304.5	100	129	Encrypted

Ireland				
Mizen Head	300.5	100	129	Encrypted
Tory Island	313.5	100	129	Encrypted
Algeria				
Rax Caxine Lt	162.5	?	?	Operational
Poland				
Dziwnow	288	100	?	Operational
Rozewie	311	100	?	Operational
Bermuda				
St. Davis Head	311.5	200		Operational
Brazil				
Ponta de Sao Marcos	300.5	300		Operational
China				
Bei Tang	310.5	100		Operational
Qing Huang Dao	287.5	100		Operational
Da San Shan	301.5	100		Operational
Wang Jia Mai Dao	313.5	100		Operational
Bao Hu	310.5	100		Operational
Japan				
Turugi-Zaki	309	100/200		Operational
Daioh-Zaki	288	100/200		Operational

Sources: the Commissioners of Irish Lights, Trinity House, Philips Navigation A/S Denmark, Admiralty List of Radio Signals vol.2, USCG, Omnistar Inc.

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T H E W U N M I L I T A R Y C O L U M N

Editor: Paul Jones
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Email:paul@termcon.demon.co.uk
IRC:#WUN #Monitor - Paul_J

Hello all, My name is Paul Jones, and I'm the new editor for the Military Column. I've been interested in all aspects of radio for about 18 years, especially radio relating to the airbands. I work for BA at Birmingham Airport in the UK, in the terminal/operations department. This is where the aircraft interest comes from. This is my first column for WUNNEWS although I've been on the WUN listserver from nearly the begining. Can I ask any of you who have any information you'd like to pass along to send it to the email address above. Thanks. So down to the nitty gritty...a few reports passed to me by Rick Baker.

Below is an amendement to the GHFS information that appeared in the May, 1996, WUN Military Column. It was sent by Geoff Halligey via Day Watson. Thanks guys!

In the May WUN there is, under the WUN MILITARY COLUMN, a list of GHFS freqs taken from a 1994 edn. of the Mar - Nov 1994 issue of the DOD (Dept of Defense) Flight Info Handbook. I have the Feb - Sep 1996 edn and there are quite a few alterations, which I have listed below. These are just the corrections, the remainder of the table was ok:

4724 Andrews (H24)
Elmendorf (H24 Oct - Mar)
Incirlik (H24)
Thule (H24)

6712 Andrews (0001 - 1000)
Bayonne (1300 - 2100)

Croughton (H24)

6739 delete Andrews & Croughton
Elmendorf (H24 Apr - Sep)

8992 Ascension (H24)
Croughton (2300 - 0500)
delete Incirlik & Yokota
11175 Bayonne (1300 - 2100)
delete Thule
13200 Croughton (0500 - 2300)
Elmendorf (H24 Oct - Mar)
15016 Ascension (H24)
Bayonne (1300 - 2100)
Elmendorf (H24 Apr - Sep)
Incirlik (H24)
17976 delete Thule

HURRICANE NEWS.

Mike Agner, who is a WUNNEWS member, writes "undoubtedly the subject of hurricane tracking has come up on the listserver in the last few days (I don't subscribe to that list-too many messages!). In my notes I found the URL one can check for the schedules - they look like a form of AMVER messages, interestingly enough - for the Hurricane Hunter flights. It is:
http://twister.sbs.ohio-state.edu/text/severe/tropical/NOUS42.KHNC
Note: I also tried this URL beginning with 'asp1' and it still worked."

Thanks Mike!

U.S. NAVY

From the Navy News service:

Status of the Navy: July 8, 1996

Personnel:	420,149 active duty; 96,137 selected reserves; 230,601 civilians
Aircraft:	4,899
Ships:	361
At Sea:	189 ships (52%)
Deployed:	123 ships (34%); 66,740 personnel
Exercises:	7
Port visits:	17
SSNs at Sea:	36 (45%)

Carriers/Airwings at Sea:
USS Enterprise/CVW-17: local operations, Eastern Atlantic
USS Independence/CVW-5: Yokosuka, Japan
USS John F. Kennedy: en route to port visit, Portsmouth, England
USS Carl Vinson/CVW-14: Op.Southern Watch/Ex. Rugged Nautilus, Arabian Gulf
USS George Washington/CVW-7: Operation Southern Watch, Arabian Gulf

LHAs/LHDs/LPHs at Sea:
USS Belleau Wood: local operations, Western Pacific
USS Boxer: local operations, Eastern Pacific
USS Guam/22nd MEU: port visit, Rota, Spain
USS Saipan/24th MEU: Eastern Atlantic
USS Tarawa/13th MEU: Exercise Infinite Moonlight, Red Sea

Ships Assigned to Middle East Task Force:
USS John Young, USS Rodney M. Davis, USS Thach, USS Ardent,
USS Dextrous, USS Laboon, USS Doyle, USS Russell,
USS Hewitt, USS Vandergrift

Other Exercises/Operations:
Counter-drug operations, Caribbean
Operation Deep Freeze, Antarctica
Operation Decisive Edge/Enhancement, Adriatic Sea
Operation Vigilant Sentinel, Arabian Gulf
Operation Southern Watch, Arabian Gulf
Maritime Interception Operations, Arabian Gulf

U.S. Air Force

From Air Force News Service:

WHITEMAN AIR FORCE BASE, Mo. (AFNS) -- The twelfth operational B-2 Spirit bomber arrived July 3. Majors Gavin L. Ketchen and Richard Vanderburgh, both of the 509th Bomb Wing, flew the aircraft from the Northrop Grumman plant at Palmdale, Calif.

This was the fourth B-2 Spirit delivered in 1996. Nine more are scheduled to be delivered by early 1998 to complete the planned fleet of 21 bombers.

Canadian Forces Affiliated Radio System -CFARS

Mr. Anonymous sent the following CFARS breakdown of callsigns might be of interest to other WUNers:

NOTE: N = A NUMBER.
CIW8NNN = EAST COAST CANADIAN NAVY SHIPS
CIW2NNN = WEST COAST CANADAIN NAVY SHIPS
CIW9NNN = CANADIAN COAST GUARD SHIPS
NOTE: CIWNN Stations are normally Canadian Forces Amateur Radio Club Stations, while CIWNNN stations are normally Canadian Amateur radio stations.
CIW2NN = BRITISH COLUMBIA (AMATEUR CALLSIGN AREA VE7)
CIW3NN = ALBERTA (AMATEUR CALLSIGN AREA VE6)
CIW4NN = SASKATCHEWAN (AMATEUR CALLSIGN AREA VE5)
CIW5NN = MANITOBA (AMATEUR CALLSIGN AREA VE4)
CIW6NN = ONTARIO (AMATEUR CALLSIGN AREA /VA3VE3)
CIW7NN = QUEBEC (AMATEUR CALLSIGN AREA VA2/VE2)
CIW8NN = ATLANTIC (AMATEUR CALLSIGN AREAS VE1//VE9/VO1/VO2/VY2
CIW3NNN = DEPLOYED CANADIAN UN MISSIONS
This will at least give SWLers a good indication of what type/location of CFARS station being logged.
Keep up the great work you have been doing in regards to WUN.

Thanks Mr.A!

Well That's it I'm afraid, only a short column, to start with. Again can I please ask, any of you with information to pass on to send it to paul@termcon.demon.co.uk at least I have a full month now to collect the next column together. Bye for now...Paul J

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New Products, Books, News and Reviews
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|Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column (not via the clubs D.C. address to save mail costs)|

This month we test drive the 1996 Super Frequency List and the Compact Disc Recording of Modulation Types 1st Edition CD-ROM's from Klingenfuss Publications and bring you more news.

REVIEWS
o 1996 Super Frequency List CD-ROM from Klingenfuss Publications

There had been some discussion on the WUN listserver a month or so ago about the use and speed of this CD, so I was very interested to get a copy to test drive. For this review, I used a Compaq Presario Pentium 90 under Windows 95. I also sampled the CD on a 386/25 clone.

What's In It...?

Released earlier this year, the CD contains updated data over the book version and is said to exceed 8,500 entries. Three menu 'buttons' are presented upon opening the English or German version of the program. The first is "Old Freqs" or Klingenfuss's list of 12,820 "formerly active stations". The second is "UT 96", or the 1996 Utility Station list. The third is "BC 96" or the 1996 Broadcast Station frequency list. So one has a lot of research power here making this a powerful information source.

Each list can be searched by Frequency, Callsign, Station, Country or Modulation. It's too bad the generic "RTTY" is used as the mode and under

'details' the types of RTTY are listed such as FEC-A, Sitor-A, ARQ-E, ARQ-M2, etc. Moving these into the modulation field or creating a separate field would provide a much more usable search feature for some of the rarer modes for example. I did not have a problem with the speed of the CD on either machine. On the Compaq during searches, I touched the key and it was there! It was a tad slower on the 386 clone, but that is to be expected. The search feature is a progressive one, so that if you are looking for 11175, the first time you press "1" you may get 111.8 as an example. The second time you press "1" you may get 1190.0 and the third press would take you to the 11,000 section. But this is actually quicker it seemed to me than typing in a frequency, grabbing you mouse, and clicking enter to start the start the search.

The stuff

One feature that is annoying is when you try to cut and paste data from the CD. You are limited to a single record and then with a copyright statement attached:

Frequency: 12714.0 [kHz]
Call: UCE
Station: Arkhangelsk R
Country: RUS
Modulation: CW/RTTY
Details: SITOR
(C) 1996 by Klingenfuss Publications. All rights reserved.

But I guess otherwise there might be someone who might try to suck the data out and peddle it as their own database. Since I would find it quicker to make notes as to frequencies I may be searching for, this was not a major problem for me.

I checked the data under the 1996 Utility station list and found it was fairly accurate and complete. One can find minor nits in almost every comprehensive list. This one is no exception. AFE: USAF Loring is still listed on three GHFS and one GHFS discrete frequencies. Loring has not been a GHFS site for some time, and I'm not sure if it's still a Mystic Star/GHFS remote site or not, but you won't hear "Loring" on GHFS frequencies. On the plus side Lahr Military, Germany (CanForces) doesn't show up nor does the U.S. Coast Guards closed "NMA" CommSta Miami. I checked more than 200 random entries against actual logs from WUN.

So overall, it performed well and has useful information in a handy CD format.

o Compact Disc Recording of Modulation Types 1st Edition CD-ROM from Klingenfuss Publications

This is a double CD containing 71 different recordings (including speech!) for a total of 2-1/2 hours of listening time. The CD sound quality was quite impressive. I used both a home entertainment center CD-player and my Compaq computer's CD drive to play sound into my M-1000 and both produced very good results in my being able to decode the sample transmissions. The whole purpose in these types of recordings is for the digital monitor to have a sample of the mode so that it will him or her recognize it. Then being able to practice tuning and syncing to these modes. The CD works well in this purpose.

Some of the modes covered include the various ARQ/FEC modes, ASCII, ACARS, Piccolo, Twinplex, Golay, NATO Link-11. Various languages are also included as is ANDVT and other secure voice samples. If you have ever wondered what types of systems make all these odd noises and scrambled voices, it's probably on here!

Just as a note, Klingenfuss Publications also announced that the supplier reduced his prices for the Worldwide Intelligence Services CD-ROM (1st Edition), as a consequence they are able to reduce the price from 120 to 90 DEM as from 01 JUN 1996. This CD covers country portraits and analyses of "more than 200 intelligence services worldwide". The English version covers ten countries, while the German version includes many, many more, the vast majority of which are in Europe.

You can purchase any of these CD-ROM's from Klingenfuss Publications

direct or from most sellers of shortwave radio products. For more information, you may write direct to Klingenfuss Publications, Hangenloher Str.14, D-72070 Tuebingen, Germany (phone 49 7071 62830) or by e-mail 101550.514@compuserve.com http://ourworld.compuserve.com/homepages/Klingenfuss

COMING SOON
o The Utility Address Handbook, 3rd edition by John Evans

From out of Leicester, England rides John Evans in his never ending pursuit of utility station addresses! The "UTILITY ADDRESS HANDBOOK" 3rd edition is back on the road. The 3rd edition of this definitive manual of utility addresses is once again in preparation for publication.

The country of origin has changed this time, from Germany to England, in the UK. The author is now John Evans G7CEC, having taken over at the request of the previous author the hard working Dr.Reinhard Klein-Arendt (of ENL fame).

John Evans is at present the editor of the "Utility Shack", which is the utility section of the Danish ShortWave Clubs International's monthly magazine, Short Wave News, which is published in English.

The book will cover the same areas as the previous two editions, that being PTT, Aero, A/C, Maritime, Mil, CG, Met, Diplo, Press, Com, TSS, Aid and also separate sections on MARS/CFARS, Naval ship lists, Rigs, Research vessels, NDB's, and anything else ute related that John comes up with. Contributions are requested from any source which are valid and up to date. The idea being that this book is written by a listener for listeners. It is intended that the project will now be an ongoing research task with the data being updated continuously. On completion of the first printing, address data will also be available, via E-Mail, for information which has arrived too late for publication or has changed since publication date, at no charge. It is also hoped to include such items as specimen utility report forms, all in the same format, but in as many languages as possible. (That's a tricky one!)

John asks any member of WUN who has any utility address information, no matter how mundane, to contribute to the address at the bottom of this article, it would be really appreciated.

The more addresses John gets in for the Utility Address Handbook, the more we all eventually will have. Contact John Evans (aka G7CEC) Phone and Fax; +44 0116 224 8444. E-Mail; john.evans@uteshack.demon.co.uk
Snail Mail; 4 Handley Street, Leicester LE2 8RA, England, UK.

WWW NEWS

Bob Margolis must have been wearing his swimming trunks all summer, cause he has really been surfing up a storm...."net surfing" that is!

o More Websites 4U by Bob Margolis (rttyman@wwa.com)
Greetings WUNandall:
Found some more Internet Web sites I think you'll be interested in:
o The USCGC Polar Sea, the world's largest non-nuclear icebreaker, has a home page at http://www.aol.com/icebreaker/ (See the latest doings aboard the vessel!)
o The North Korean news service, KCNA, can be found at http://www.kimsoft.com/dprk.htm in case the RTTY copy you receive over HF radio is garbled.
o Aeronautical and maritime radio enthusiasts might want to take a looksee at a huge site with all kinds of information on Vietnam. Surf your way to http://www.serve.net/vietnam/pages/INDEX.HTM which is the table of contents page. Then you can mouse-click on "Transportation Sector". From the Transportation Sector page you can move to either "Air Transport" or "Maritime Transport" or other transport subdirectories.
o I don't recommend this next one because it's very short, giving just one paragraph of information. But to show you it exists, the page for time station CHU in Ottawa, Canada. Horology is the science of time. http://www.webcom.com/horology/h--chu.html
o Of big importance to radio listeners everywhere is propagation because it is what governs whether you'll hear that HF radio utility station you're seeking. I found an informative site at http://www.ibmpcug.co.uk/~g4sgi/propagation.html that is run by Simon Collings, G4SGI. He discusses Free-space waves,

Ionospheric waves, Fading, Scatter, Meteor Trails, Aurorae (Borealis and Australis), Ionospheric and geomagnetic storms, Tropospheric waves and Ground waves.

- o Those of you interested in military stations will like this one from Japan. The Japan Maritime Self Defense Force has a home page at http://cssew01.cs.nda.ac.jp/~yas/JDA/MSDF/index.html
- o The poop you'd be most interested in can be found by mouse-clicking on "Maritime Defense".
- o Environment Canada's Canadian Ice Service has a huge, and I mean HUGE, Web site at http://www.on.doe.ca/ice/about/about.html
- o Here you'll find "About the Canadian Ice Service". All sorts of information is provided, including the history and operations of the ice service, and explanations about weather data and graphics symbols that are on radiofax charts and RTTY text. I rate this site four stars. Our French-speaking members will be happy to know that the entire text is also available in French.
- o A radiofax schedule for KVM-70, Honolulu, Hawaii, is at http://www.nws.noaa.gov/pr/os/pacfax.htm
- o Lastly, here are two that are Amateur Radio oriented, but they have pertinence to WUN's maritime enthusiasts. First is Prince Edward Radio Club at http://www.reach.net/netsites/personal/stormy/percmm/html
- o Under Maritime Mobile Nets on the home page is a lengthy list of HF-radio amateur radio frequencies worldwide of--what else?--maritime mobile service nets and their times of operations. In this section is this statement, "The US Coast Guard often monitors." Second is Maritime Mobile Service Network at http://206.202.0.2/~mmsn/index.html
  It is stated on the home page that "the network is recognized by the United States Coast Guard and has been instrumental in handling hundreds of incidents involving vessels in distress. The network also acts as a weather beacon for ships during periods of severe weather and regularly repeats weather warnings and bulletins from the National Weather Service and the National Hurricane Centre. The net is held daily from 1200 to 2200 EST (although I still heard it going at 2345 EDT on Sun. 14 July) on 14300 kHz. This could be your tip sheet for seeking those vessels in distress, and search-and-rescues frequencies. The MMSN Web site has links to Merchant Marine Web sites, military sites, and MARS, as well as other links.
- o There is a Web site for the Military Affiliate Radio System (M.A.R.S.). It is for members of The Maritime Mobile Service Net and includes the Air Force, Marines, Navy and Army. Surf your way to: http://www.maf.mobile.al.us/~mmsn/mars.htm
- o You'll find all sorts of goodies there including poop on the recently ended Grecian Fireboat 96 MARS operations, frequency allocations, and active ships list. It looks like this site will grow at an exponential rate as more MARS stations become aware of this facility and add their call signs to the list.

Cuban Utility Stations by William Walker Albertson
A 26 kbyte listing of frequencies used by Cuban utility stations in all modes from 212 kHz to 360.200 MHz. Several sources cited including WUN and my good RTTY-monitoring friend from Florida, Fred Hetherington (FH).
The Web site locale is:
http://nersp.nerdc.ufl.edu/~decrawf/misctxt/cubaute.html

Britain's top aerobatics team, the Royal Air Force's Red Arrows, now has an official home page. The page includes a display schedule, history, graphics, and more, and is part of DeltaWeb, a new UK aviation Web site that promises to provide news and information on aviation matters, and more.
http://www.deltaweb.co.uk/reds/

Time to go back to the ol' radio. As Porky Pig aptly put it,
"Th-th-th-that's all f-f-folks!"

****
Bob Margolis Q. What has four legs and an arm?
rttyman@wwa.com A. A happy pit bull.
****

With that notable contribution from Bob, we close another month. Next month is 'new book' month here in WUNderland and boy do I have some reading

to do after playing with CD's for the last 5 weeks! It's a tough job, but someone has to do it. Also next month (if I get it done in time) you'll want to check out this review of Scancat computer control software if your considering adding full computer control to the shack.

DE RD

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Utility Monitoring in the Maritime Bands

Editor: Day Watson (100712.3154@compuserve.com)
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As I've been asked to take over as Editor of the Nautical News column a few words of introduction might not be amiss. My own professional involvement in nautical life was as a "Sparks" (Radio Officer) in the UK Merchant Navy from 1959-1973 on a variety of ships from "tramps" (cargo ships not on scheduled routes but carrying cargoes on an ad-hoc basis), tankers, cargoships, an Ocean Weather Ship, Fleet supply ships (Royal Fleet Auxiliaries) through to passenger ships. Given the period the communications were on the whole a combination of pounding brass (CW) and a typewriter.

After a period ashore I eventually bought my first receiver, a RACAL RA17, and started the listening hobby with broadcast, CW and USB. Once the addiction had started I moved to digital modes via an RX8 (Technical Software) decoder based on a BBC-B computer and NRD525 receiver. That kit has all now gone, my current station consisting of a Racal RA1792/NRD535 receivers decoding with the HOKA pc-based Code30 system, and JVFAX7.0.

As I commence the stewardship of the Nautical Column the first item brings back personal memories.

++++++ Canberra/GBVC to be retired

P&O Cruises has announced it will retire the mv Canberra on 30 September. The 44,807 g.r.t., 1,641 passenger mv Canberra was built by Harland and Wolff, Belfast, in 1960 - 1961 for 17 million pounds sterling. Her maiden voyage was 2 June, 1961, from Southampton. P&O is reportedly reluctant to sell her, and prefers that she be scrapped.

She is to be replaced by the mv Star Princess, (originally the mv Fair Majesty), a 1989 built, 1,470 person vessel and renamed mv Arcadia. Thanks to Steve Schultz (SHIPs mailing list) for the above. Canberra was home to me from Aug 72 - Apr 73 where I was Junior Second Radio Officer. In those days the communications was either CW or HF rt. A Marconi Globespan provided MF/HF communications with associated Marconi Atlanta receivers. This setup was basically for CW for the handling of telegrams. The HF RT installation to handle passenger/crew telephone calls consisted of a Marconi NT201 transmitter with frequencies selected by switching crystals i.e. non-synthesized version.

This transmitter was capable of handling ISB but never was - USB being the mode on maritime duplex channeling. However two receiving racks were provided to cover ISB operation. These contained Racal RA17 receivers with SSB adapters. Also included was a "secrecy" unit (voice inversion) and a line terminal unit to connect to the adjacent telephone kiosk or to the ship's telephone system.

If one is being pedantic Canberra is not a motor vessel (mv). She is in fact turbo-electric. Steam was used to drive turbo-generators the output of which powered her shafts by means of electric motors.

++++++ SS United States

An interesting item from the SHIPs mailing list by Henry Holcomb of the Philadelphia Inquirer indicates that the liner SS United States is being towed home. She has apparently been rusting away in Turkey and the Ukraine. She was launched in 1952 but has been out of service since 1969.

On 12 July Simon Gladwell (Fairplay Publications) confirmed that the

ship was under tow by SmitWijs Towing's MT SMIT NEW YORK. She was due to arrive on the US East Coast (no port designated) by the third week of July. (unfortunately before the publication date of this newsletter).

The remainder of the article goes on to indicate that a wealthy developer/contractor Edward A Cantor bought a major interest in the ship two years ago.

His team say their research shows there is a market for the ship as a floating 5-star hotel-casino, a so-called cruise-to-nowhere gambling ship or even as a luxury cruise ship. However negotiations for financial aid/ loans from city and state government departments to have the work carried out at the Philadelphia Naval Shipyard are not proceeding smoothly.

(Stop press! - ss United States arrived at the Packer Avenue Marine Terminal, Philadelphia on 24 July).

++++++ Other departures

The Jul96 copy of Sea Breezes indicates that time has caught up with some other older passenger ships. Whilst the hulls/superstructure and engines are not necessarily in poor condition the costs of meeting the latest SOLAS regulation has become prohibitive.

Shanghai (blt Belgium 1957 Baudoinville(CMB)/Cathay(P&O)/Kenghsin(Nan Yang Shipping)/Shanghai).

Universe (blt Chester, Pa 1953 Badger Mariner/Atlantic (American Export Isbrandtsen Lines)/Universe Campus (Seawise Foundation)/ (Universe World Explorer Cruises).

Brazil Maru (blt 1954 for Mitsui OSK Lines as a Japanese emigrant ship between Japan and S America, a Japanese coastal passenger ship, finally laid up in 1973 to become a pavilion ship at Toba, J.)

++++++ New ships

A new NOAA ship, the NOAAS Ron Brown, was launched end of May from MS. It's hull number is R-104.

SEAWOLF (SSN-21) is getting ready for delivery. A query was raised does anyone know if there is going to be an SSN-22? - the reply was in the affirmative and the vessel to be named CONNECTICUT.

The Italian yard of Fincantieri in Venice is busy building new passenger ships. Unidentified vessel as a replacement for the Holland America Lines Rotterdam which is now 37 years old. Carnival Destiny for Carnival Cruises she is 100,000 gt and 2600 berth capacity. Due for delivery in December she is the first of two. P&O Princess Cruises has ordered the Sea Princess from the same yard for 1999 delivery. At 77,000 gt and 1950 berths she will be the sister ship to Sun Princess and Dawn Princess. (Source Sea Breezes)

The Finnish built 36,000 gt liner Aida will provide cruises the German market where the company, Deutsche Seetouristik, is targetting the 30-55 age group. There will be no dressing for dinner and no formal nights. (Source Sea Breezes).

++++++ Loan facility for Novoship

Extracts from a U.S. Embassy report provided courtesy of the Business Information Service for the Newly Independent States (BISNIS). It was dated Feb96.

A US$225 million loan facility has been arranged for Russia's largest tanker operator, Novorossiysk Shipping Co (Novoship) by the European Bank for Reconstruction and Development (EBRD), Abn Amro Bank N.V. and Meespierson N.V. which acted as joint arrangers.

Novoship is the first private Russian shipowner to come to the market to seek this level of funds without a State guarantee.
The loan proceeds will be used to provide partial post-delivery finance of 11 new 40,000 dwt product tankers currently being built at four Croatian yards: Trogir, Rijeka, Split and Pula. The vessels are scheduled for delivery in 1996 and will be registered under the Liberian flag.

In terms of carrying capacity, tonnage and volume of trade, Novoship is the largest tanker shipping company in Russia and seventh in the World. As a specialist tanker and oil/bul/ore operator it currently has over 90 vessels which operate almost exclusively on international trades. The new vessels form part of Novoship's fleet modernization and replacement program.

++++++ Station overviews.

I intend covering a couple of coast stations each month. This should give you an idea of their current services, times of traffic lists, weather and navigation broadcasts.

++++++ Capetown Radio/ZSC overview.

WT service

QSX calling channels 3/4/9/10 on bands in service as indicated by the marker "cq de ZSC ar k k". Traffic list is sent every EH+30 on 4291, 8461, 12772.5, 17018. Wx is sent 0930 and 1730 on 4291, 8461, 12772.5, 17018. Nav warnings are sent 0630, 0900 and 1700 on 4291, 8461, 12772.5, 17018.

Watchkeeping	4/6/8	H24	
	12	Apr-Sep/0500-2000	Oct-Mar/0500-2200
	16	Apr-Sep/0500-1800	Oct-Mar/0500-2000

ZSC46	4291
ZSC33	4317
ZSC42	8461
ZSC6	8688.5
ZSC9	12698
ZSC43or57	12724
ZSC38	12772.5
ZSC44	17018
ZSC7	17164.7

Telex service

Stn nr 4331 --> selcal MKKX

Marker "de ZSC sitor svc k" and 5 second tuning dash

Traffic list is sent (fec) every EH+15.

Wx is sent (fec) 0930 and 1730.

Nav warnings are sent (fec) 0615, 0900, 1700

		Ship	
ZSC61	4214	4176	[Ch 408]
ZSC62	8428.5	8388.5	[Ch 825]
ZSC63	12601	12498.5	[Ch1244]
ZSC64	16816	16692.5	[Ch1619]

HF RT service

Traffic list is sent at 0003, 0603, 0948, 1403, 1748 on 4435 and 8719.

Wx is sent 0948, 1333, and 1748 on 4435, 8719.

		Ship		
ZSC25	4369	4077	[Ch 405]	
ZSC56	4125	4125		Simplex calling
ZSC53	4417	4125	[Ch 421]	Worldwide calling channel
ZSC48	4426	4134	[Ch 424]	
ZSC67or55	4435	4143	[Ch 427]	
ZSC..	8719	8195	[Ch 801]	
ZSC..	8725	8201	[Ch 803]	
ZSC26	8731	8207	[Ch 805]	
ZSC57	8779	8255	[Ch 821]	Worldwide calling channel
ZSC27	13101	12254	[Ch1209]	
ZSC54	13137	12290	[Ch1221]	Worldwide calling channel
ZSC28	17263	16381	[Ch1608]	
ZSC59	17302	16420	[Ch1621]	Worldwide calling channel
ZSC..	17338	16456	[Ch1633]	
ZSC29	22705	22009	[Ch2204]	
ZSC..	22711	22015	[Ch2206]	
ZSC60	22756	22060	[Ch2221]	Worldwide calling channel

Reported address: Capetown Radio, Private bag X01, Milnerton 7435, Republic of South Africa.

Research/acknowledgements:

ALRS Vols 1 (95/96) and 3 (95/96)

CFL Ed.9

Klingenfuss Utility Guide 96

web site - http://www.sas.upenn.edu/African_Studies/Electronic/ZSC_Radio_12918.html

++++++ Singapore Radio/9VG overview.
WT service
During period 0000-1400 (marked *) additional frequencies are employed.
(A) indicates the designated answering frequency for the band during this period.

Traffic list is sent every EH+30
on 8530 (H24) and
on 6412, 12733.5, 12733.5, 17232.9 (*)
Wx at 0118 and 1318 on 4322, 6412
Nav warnings at 0118 0518 0918 1318 1718 2118 on 4322, 6412

		Watch	QSX channels
9VG33	4313	*(A)	1 2 3 4 5 7
9VG54	4322	H24	1 2 3 4 5 7
9VG9	6340.5	*(A)	1 3 4 5 7
9VG55	6412	*	
9VG56	8476	H24(A)	1 3 4 5 8 10
9VG25	8530	H24	
9VG73	8609.5	*	
9VG36	8688	*	
9VG37	12659.5	*	
9VG34	12707	*	
9VG57	12724	*(A)	1 3 4 6 8 10
9VG20	12733.5	*	
9VG58	16966.5	*	1 3 4 5 8 10
9VG22	16994	*	
9VG53	17232.9	*	
9VG59	22578.5	*	1 3 4 6 8 10
9VG27	22479	*	

Telex service
Station number 4620 --> selcal MCQV
Tfc lists sent (fec) at OH+30 during service hours on 6323.5, 8420.5, 12579.5, 16807, 22381.
Wx sent (fec) at 0130 and 1330 on 6323.5, 8420.5, 132579.5, 16807, 22381.

		Ship		
9VG74	4210.5	4172.5	[Ch 401]	1200-0000
9VG75	4214.5	4176.5	[Ch 409]	
9VG76	6320.5	6269.5	[Ch 614]	H24
9VG77	6323.5	6272.5	[Ch 620]	0000-1600
9VG78	8420.5	8380.5	[Ch 809]	H24
9VG92	8424.5	8384.5	[Ch 817]	
9VG79	8426.5	8386.5	[Ch 821]	H24
9VG93	8428.5	8388.5	[Ch 825]	
9VG39	8430	8390	[Ch 828]	H24
9VG80	12579.5	12477	[Ch1201]	H24
9VG94	12590	12222	[Ch1222]	0000-1600
9VG81	12593.5	12491	[Ch1229]	H24
9VG95	12597	12494.5	[Ch1236]	0000-1600
9VG82	16807	16683.5	[Ch1601]	2300-1600
9VG83	16815	16691.5	[Ch1617]	0000-1600
9VG96	16818.5	16695.5	[Ch1625]	2300-1600
9VG97	16822.5	16699.5	[ch1633]	0000-1200
9VG48	16868	16750	[Ch16124]	H24
9VG84	22381	22289	[Ch2210]	0000-1600
9VG85	22385	22293	[Ch2218]	
9VG98	22389	22297	[Ch2226]	
9VG99	22393	22301	[Ch2234]	0000-1600

HF RT service
An HF RT service is provided between 0000-1400
Tfc lists at 00005, 0405, 0805, 1205 on 4369 and 8728.
Wx at 0005, 1205 on 4349, 8728.
Nav warnings at 00005, 0405, 0805, 1205 on 8728

		Ship	
9VG60	4369	4077	[Ch 405]
9VG62	6504	6203	[Ch 602]
9VG63	8728	8204	[Ch 804]
9VG64	8761	8237	[Ch 815]
9VG89	8779	8255	[Ch 821]
9VG65	8788	8264	[Ch 824]
9VG66	13122	12275	[Ch1216]
9VG67	13131	12284	[Ch1219]
9VG90	13137	12290	[Ch1221]
9VG91	17302	16420	[Ch1621]
9VG69	17362	16480	[Ch1641]
9VG70	22729	22033	[Ch2212]

Reported address: Singapore Telecom,
Int. Mobile Div., Mobile Communication Group,
Orchard Point POB38,
Singapore 9123

Research/acknowledgements:
ALRS Vols 1 (94/95) and 3 (95/96)
CFL Ed.9
Klingenfuss Utility Guide 96

++++++ Moscow Radio/UAT.
Following copied at 1000z tfc list time.

de 3701/uat qss/qsx [telex - ARQ]
8431.5/8391.5 [Ch:831]
12599.5/12497.0 12608.0/12505.5 [Ch:1241, 1258]
16813.0/16689.5 16898.5/16780.5- [Ch:1613, 16185]

de uat/moscow radio qss/qsx phone
8731.0/8207.0 13077.0/12230.0 17257.0/16375.0 kgc - [Ch:805, 1201, 1606]

cq cq de uat uat tfc list 96/06/30 15:45 qtc for=

[Telex tfc lists sent in FEC mode at EH+00]
[Station ID nr 3701 --> selcal KYVX]
[kgc Russian abbreviation for kHz]

++++++ Chosi Radio/JCS
This has been reported (recent corrections to ALRS via Geoff Halligey) to have been closed down.

++++++ St Lys Radio/FFL
Bob Margolis posted an interesting note in French in respect of this station. I've obtained a scratchy translation which is summarized as follows.

The population of St Lys a village some 25km from Toulouse want to protect their famous marine station which has been in service since 1948. It is the only French station permanently on HF for telegraph, telex, and telephone communications with ships worldwide.

The staff at FFL have been participating in the economic and social life of the village throughout this time. However the forthcoming changes in international regulations (GMDSS) in 1999 with the growing satellite communications system FRANCE TELECOM has planned to shut down the service. The staff is being asked to transfer to Toulouse to work for the International Centre operations.

Early in April there was a 1 hour strike from 1100-1200. A statement by the Union (CGT) representative Claude Barry - "We are not questioning the technological advances but we demand to keep a public service for those ships which cannot get satellite - especially in the Third World countries."

++++++ Canadian Coast Guard

Robert Ward has been with VCS since 1983, has been a WUN member from the start and to whom we send our thanks for the following.

Effective 2400UTC September 30, 1996 (or 0000UTC October 1/96) ALL HF services from Halifax Coast Guard Radio/VCS will cease forever. This includes radiotelegraphy, radiotelephony and radiotelex. This will make VCS an MF/VHF radiotelephone-only station (not counting 500kHz CW, which will continue for a while longer). As you're probably already aware, VCS already closed CW and R/T on 22 MHz, and operates on HF from 4 thru 16MHz. The appropriate Notices to Shipping, and written Notices to Mariners have not yet been issued, but that should happen shortly.

The actual Halifax Coast Guard Radio station building in the village of Ketch Harbour, Nova Scotia (about 12 miles south of Halifax city limits) is scheduled to be closed within the next 2 years, and the operators will be relocated (or co-located, as they're calling it) to the Vessel Traffic Services center building in Dartmouth, Nova Scotia, overlooking the Bedford Basin and Halifax Harbor. All coast guard radio operators and vessel traffic services operators are being cross-trained, and the two jobs are now in the process of being merged into one new job called "Marine Communications and Traffic Services", or MCTS.

VCS was the largest and busiest CG radio station in the country. But no longer. There will be NO HF at all at VCS after Oct 1, 1996. The station isn't scheduled to be "co-located" until maybe December 1997, but that's still uncertain. The upshot is the Canadian Coast Guard is getting out of shortwave services completely. However, I really have no idea what's going on at Vancouver CG Radio/VAI, or with the couple of Arctic stations that have some shortwave frequencies. I suspect they will also be losing them. The Dartmouth location will have VHF and MF R/T ONLY. Nothing else. No HF R/T, no CW, no RTTY.

We've been "downsized" considerably. When I started at VCS in 1983 the usual day shift consisted of seven operators, one supervisor and two or three landline telex operators, plus station manager, technical staff, etc. Evening shift was five or six operators, one supervisor, two telex operators. Midnight shift was three operators, one supervisor, one or two telex operators.

Since then things have changed drastically, until now, in 1996, at no time are we required to have more than two operators on ANY shift, and no supervisor is on the station between 2330 and 0730 local time. From seven operators to two. And at the moment, at least until October, these two operators still do all MF, HF and VHF R/T, MF and HF CW, RTTY...everything, including what used to be considered supervisor duties, like routing message traffic, answering telephones, making sure the computer server is still running, etc., etc., etc. In 1983 there were between 27 and 30 operators at VCS. There are now 10.

As the person who answers listeners' correspondence for VCS, let me tell you, I will probably only have to answer 1 or 2 reception reports per year after this goes into effect, as I rarely get reception reports for anything except our HF transmissions and broadcasts.

Also, recently Charlottetown CG Radio/VCA closed completely. Some of their VHF frequencies were shifted to Sydney CG Radio/VCO, and some of Sydney's VHF peripherals were shifted to Halifax/VCS. VCS now has remote-controlled VHF sites at Fox Island, NS, which is at the extreme eastern end of mainland Nova Scotia, and at Kingsburg, about 50 nautical miles west of the station, and we now have continuous marine broadcast transmission from Sable Island on VHF channel 83B.

Yarmouth CG Radio/VAU is scheduled to be closed, and "co-located" with Fundy Traffic, in my hometown of Saint John, New Brunswick. Things are changing rapidly in the Canadian Coast Guard, especially since the merger with the Department of Fisheries and Oceans in April of 1995.

WUNners might also be interested to note that the Canadian Coast Guard Ship Henry Larsen/CGHL has recently sailed from the coast guard base in Dartmouth, headed for the arctic. Their radio operator is one of the fellows from VCS, who has been "borrowed" for the voyage, expected to last about 6 weeks. Perhaps you'll hear CGHL on HF R/T and CW working VCS... while it still can!

Looks like QSL'ing VCS better take place soon too!

++++++ US maritime coast stations - change of ownership.

There has been interesting exchanges posted in WUN relating to US coast stations.

Robert Thompson advised recently logging Seattle Radio/KLB on arq channel 408 [4214/4176]. Station ID nr is 1113 [selcal XXXK].

Dick Dillman then chipped in with "For those who may not be familiar with this station, KLB is quite interesting. It's a one-man operation and the transmitters are all home brew. It's hard to find but I visited there a couple of years ago. I thought they'd be QRT soon so I'm always relieved to hear their CW marker still going strong."

To which was added the news from Rory Davis that both Seattle Radio/KLB and Tuckerton/WSC have been recently bought by Mobile Radio/WLO.

Dick replied and poses some questions "I didn't know that. I've visited WSC too and, while not a one man operation, it was more like a ham station than a coast station. Are they remotely controlled from WLO or are there still operators there? And I don't think WSC had SITOR when I was there. Has that changed?" [My current info is that WSC is CW service only - Day.]

"I understand WSC and KLB are remotely controlled, though that pretty much all I know." (says Rory). [Taking into account the locations of WLO/WSC/KLB wouldn't be surprised if WLO were to invest in some plant at WSC/KLB to counter the competition from the Globe network of stations - Day].

And having mentioned Globe Rory advises us that they (Globe) have, (pending FCC paperwork) acquired the licenses for KPH (San Francisco Radio) and WCC (Chatham Radio).

The next couple of months should provide some interesting changes.

++++++ Saint Petersburg Radio/UGC 3sc ship press.

I've logged an approximately half-hour 3sc press transmission from UGC on 8677.5 kHz on Saturdays but not Sundays at 1515z. The mode is fec and not heard on any other of UGC's known frequencies. I assumed that it was also sent on weekdays but a recent day's sickleave gave me the opportunity to check. Wednesday - no transmission. Looks like Saturday only on one frequency.

++++++ CW practice

For those of you who want to improve your basic speed try using the NAVAREA III broadcast from Spanish Navy Madrid/EBA on 17018 at 1620z. The speed is 17 wpm. After 10 mins of ID marker the navigation warnings are sent in English then repeated in Spanish. Try 4261, 6388, 8528.5, 13059 as parallel frequencies but I haven't checked these for over two years.

++++++ Maritime related Web addresses

Cruise Lines

Harold Woering found in an issue of Internet World magazine a neat information source. It's a travel agent type site but there is some useful information - which Cruise Lines have which ships and to which part of the world they sail. The site is http:/www.cruiseweb.com

Not all cruise lines are available but more are being added. Select a cruise eg 5 days in the Caribbean and one obtains a list of those ships sailing in that area. Mentioned are: Carnival, Celebrity, Costa, Holland, Norwegian, Premier, Princess, and Royal Caribbean Cruise Lines.

Fairplay Publications

Thanks to Simon Gladwell (Fairplay Publications) for his post to the SHIPs mailing list.

Look at http://www.fairplay-publications.co.uk where one finds a ships and address database.

In brief this site provides shipping news for the last 24/48/72 hours. Databases under the headings Companies/ships/ports. A list of addresses to numerous maritime associated websites.

LLP Lloyds of London Press

Paul Marr (SHIPs listserver) found that LLP (formerly LLoyd's of London Press, Inc.) has setup their own website. http://www.llplimited.com
Note: What may look like the number one in the url are actually the letter l (L). [Unfortunately the access to Lloyd's List requires a User ID and a password - Day].

Navy League of the United States

Their new home page is http://www.navyleague.org was supplied by Robert

Kesteloot on the SHIPs mailing list. He tells us "The Navy League of the United States has been a faithful supporter and advocate of the basic premise that America must possess a robust merchant marine for reasons of national, economic, and environmental security and must nurture the maritime industrial base essential to its continued existence. Not surprising, the Navy League is dedicated to strengthening American seapower in all its forms including the U.S. Navy, the U.S. Coast Guard, the U.S. Marine Corps plus the U.S.-flag Merchant Marine."

++++++ GMDSS

With the movement towards the full implementation of the GMDSS regulations on 1 Feb 1999 I'm interested in two points and would appreciate anyone with info emailing me directly.

1) Other than HOKA Code3/Code30 (I already have the GMDSS option) do any of you have/have knowledge of a GMDSS option on other decoders. If you have some sample files copies would be appreciated.
2) Knowledge of any coaststation which has implemented Digital Selective Calling for other than distress/safety calling and on which channels.

United Arab Emirates is updating what has hitherto been a badly served area of coast line with a Norwegian Garex 220 advanced coastal radio system. Installation is expected to be completed by the end of the year. It is reported to consist of a master station at Abu Dhabi with a further eight remote sites on the coast/offshore islands handling distress/safety calls and normal traffic working in the Persian Gulf and the Arabian Sea.

The UK Government has announced that it is to instal a similar GMDSS system at HM Coastguard stations around the UK coast.
(Thanks to Sea Breezes for the info in these last two paragraphs).

++++++

That about winds it up for this month. I trust you may have found something of interest. If there is a topic which might lead to a few interesting paragraphs drop me your email with your info or queries and I'll see what can be done.

For the moment good listening and fat logbooks - 73s Day.

==========

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STATION/VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

FIXED STATIONS

USN-MARS/NNN0HLQ	14470.0	USB	PFC	7 ds	shore station, QSL	(MK)
MARS/NNN0SNW	14441.5	USB	PFC	6 ds	FL shore sta, QSL	(MR)
MARS/NNN0KRQ	14441.5	USB	PFC	10 ds	OH shore sta, QSL	(MR)
MARS/NNN0UTO	14467.0	USB	PFC	7 ds	WA shore sta, QSL	(MR)
Taipei Meteo/BMB	8117.0	USB	CRD	126 ds	2 follow-ups	(HS)
NTA Beacon Sveio/LN2A	10407.0	CW	CRD	257 ds	card no. 13	(HS)

MILITARY/COAST GUARD SHIPS

USS Thomas S. Gates CG-51/NTSG	7535.0	USB	PFC	13 ds	3-inch decal	(MK)
USS Detroit AOE-4/NDWQ	7535.0	USB	PFC	43 ds	veri unsigned	(MK)
USCGC Gallatin-MARS	14470.0	USB	PFC	40 ds		(MR)
USCGC Confidence-MARS/NNN0NXZ	14441.5	USB	PFC	17 ds	Telecom Spec Turner	(MR)

MILITARY/GOVERNMENT AIRCRAFT

Skier 46 #40686	11175.0	USB	PFC	6 ds	C130-H	(MK)
USCG Rescue 1712	5696.0	USB	PFC	32 ds	L.O. Benton LTCDR	(MR)

Royal Navy Flt./Navy 177	5680.0	USB	PFC	43	ds +sticker, info	(HS)

CIVIL AIRCRAFT

APR 8700/OO-LTJ	5658.0	USB	PFC	176	ds737-300 EuroBelgian	(TO)
KLM 579/PH-AGK	6535.0	USB	LTR	56	ds A-310	(TO)
Air Van 51/VH-TJI	8867.0	USB	PFC	67	ds 737-400 Air Vanuatu	(TO)
Zimbabwe 724/Z-WPE	8903.0	USB	PFC	33	ds 767-200ER	(TO)
Speedbird 212/G-BNWG	2872.0	USB	PFC	23	ds 767-300ER	(TO)
Mauritius 750/3B-NAK	5658.0	USB	PFC	38	ds 767-200ER	(TO)
Air France 002	8930.0	USB	PFC	9	ds Concorde	(HS)

MARITIME/NAVAL/COAST GUARD STATIONS

USCG COMMSTA Boston/NMF	6340.5	FAX	PFC	8	ds ltr + QSL	(MR)
USCG COMMSTA San Juan/NMR	5696.0	USB	PFC	11	ds SAR veri	(MR)
Monaco Radio/3AC	8728.0	USB	CRD	11	ds	(HS)
French Navy Brest/FUE	2789.0	RTT	LTR	16	ds	(HS)
French Navy Toulon/FUO	6385.0	RTT	LTR	11	ds +sticker	(HS)
NLCG Ijmuiden Rescue/PBK	2182.0	USB	PFC	11	ds +letter	(HS)
Jakarta Radio/PKX	17239.7	CW	LTR	73	ds	(HS)
Palo Alto Radio/KFS	12695.5	CW	CRD	60	ds +booklet, info	(HS)

# # #

*** THE LITTLE BLACK BOOK ***

HENNING SANDTE (HSandte@t-online.de) of Burgdorf, Germany sends along the following station addresses:

French Navy Toulon/FUO
Marine Nationale
Region Maritime Mediterranee
Service Transmission et
  Informatique Regional
F-83800 Toulon-Naval
France

Navy 177 / Rescue 177
819 Naval Air Squadron
Royal Naval Air Station Prestwick
HMS Gannet
Monkton
Ayrshire KA9 2RZ
Scotland
United Kingdom

Radio Beacon LN2A
Norwegian Telecommunications Authority
Att.: AYO/TF
P.O. Box 447 Sentrum
N-0104 Oslo
Norway
E-mail: ayumu.ohta@nta.telemax.no

MIKE RIVKIN of Pomona, NY gets the cigar this month for most QSL's: a total of eight, and a first-timer at that! Mike's listening post includes an NRD-535D receiver with an RF Systems passive vertical antenna, an Icom R-390A backup, Hoka 3 for digital decoding, and AEAFAX3 for fax reception. "I would like to try and QSL more military a/c,"says Mike, "and was wondering do you have to have a tail number in order to get a reply?" Seemingly not, you do need to know where the aircraft's home unit is located. If anybody's got a more definite answer than that, Mike can be reached at: kirkster@worldnet.att.net

STEVE MCDONALD passed along some information recently from HANK HOLBROOK of interest to maritime QSL'ers. It comes from Radio Electronics Officer RICH MONJURE, aboard the M/V AMBASSADOR / KRFK: "...If I get any reports I will make a nice special edition QSL card for the SWL's... can use the following address for their reports: P.O. Box 350052, Ft. Lauderdale, FL 33335...

I send CW tfc to WNU and WLO usually between 1700 and 1730 UTC. I make my initial call on one of the following frequencies:

8367	12551	16735
8367.5	12551.5	16735.5
8368	12552	16736

"...I usually wind up using either 8 or 12 mc/s, but sometimes 16 mc/s..My ship still sails in the Caribbean." As Steve points out, this is a rather unique opportunity for QSL'ers as there aren't many U.S. ships left that still pound brass. We might add, too, that by reference to mc/s, we are not exactly dealing with somebody born yesterday, either...

J.D. STEPHENS a while back sent off a reception report to Offutt AFB using an old address. Somehow, he says, one of his follow-ups got forwarded to the correct one, which is:

Department of the Air Force
Detachment 1
755th Communications Squadron (ACC)
21011 Rainwood Road
Elkhorn, NE
68022

"According to the letter, the station is actually located about 35 miles away from Offutt AFB. The verification signer was CNSgt Robert G. Arndt - Detachment Chief."

J.D. also reports more good news concerning WLC-ROGERS CITY RADIO. He is among the first of recent QSL'ers to receive a QSL card and information sheets, verifying reception of the Great Lakes relay station, "for a second follow-up report sent via Fax. After 2 written reports, the fax report got quick results." So in reference to the discussion in a previous WUN about whether or not they welcome and will answer reception reports sent via Fax - it seems that the answer is a resounding 'Yes' at least in the case of WLC. He adds that WLC has "their own very attractive QSL card," so you might think about holding on to your own PFC's.

J.D. wants to know if in the future, information sent to and published here in the QSL Report could also include the names of verification signers. "There have been quite a few instances where someone had reported a verification from a station from which I am still seeking a verification from, and a contact name at the station would be invaluable. As anyone who has chased QSL's for any length of time knows, having a specific person's name to whom you can direct your reception report can make all the difference in receiving a verification." Point taken, J.D. Beginning with this Report, names of veri signers that are forwarded to us are included in the 'remarks' field.

Mint stamp and DX supplies dealer WILLIAM J. PLUM came out with a handy little publication last May. "Foreign Airmail Postage for Successful QSL'ing" offers advice to ute SWL's on how to get the most out of the hobby using foreign airmail postage and return envelopes, plus helpful hints and tricks from Broadcast DX'ers who report a 90% QSL return rate. The cost is $5.00 (+ $2.00 P&H). 12 Glenn Road, Flemington, NJ 08822-3322. Phone: (908) 788-1020. Fax: (908) 782-2612.

Addresses:

This one for MARS USCGC Confidence might be worth checking out:

USCG Group
Port Angeles, WA
98362

And this for USCG COMMSTA Boston/NMF:

900 Ferry St.
Marshfield, MA
02050-1800

# # #

// Future Bleak for St-Lys R. //

According to a document recently uploaded by BOB MARGOLIS to the WUN server from a French web site, it seems the fate of maritime station St-Lys

Radio is almost certain. It claims that since by 1999 all vessels must be equipped with satellite communications gear, France Telecom will be closing its HF site in the village of St-Lys.

St-Lys Radio was created in 1948 and is the only large-scale HF radio-telecommunications site in France that relays voice, telex and CW traffic to vessels anywhere in the world. While the network's transmitting site is not actually adjacent to the sea, it was originally chosen during WWII as it fell within the French free zone, and certain geographical characteristics made it suitable to shortwave radio transmission.

With all this in mind, those who have never QSL'd St-Lys might very seriously consider doing it now -- or never. And to facilitate that task, I hereby include the text of a reception report that I submitted to St-Lys several months ago (the result of which was a QSL):

Le 28 Fevrier, 1996
France Telecom
Service Commercial Radio Maritime
Centre Radiomaritime de Saint Lys
Le Chef de Centre
F-31470 Saint-Lys
France

Reference: St-Lys Radio Canal #830

Cher Monsieur:

Je vous ecrit cette lettre pour rapporter le fait d'avoir captee recemment une transmission de Radio St-Lys.

Cette transmission etait sur la frequence 8806.0 kHz USB a 21:15 hrs UTC, durant laquelle un contact etait effectue avec le vaisseau African Queen.

Je vous signale ces faits car je suis amateur de radio courtes-ondes et je collectione des cartes de verification provenant de stations haute-frequence comme la votre.

Je vous serais tres reconnaissant de completer la carte formule (PFC) ci-incluse avec quelques details sur St-Lys et de me la retourner dans l'enveloppe accompagnatrice. Il se peut que St-Lys possede sa propre carte de verification radiophonique (QSL), or je vous serais egalement reconnaissant de la recevoir. J'inclus avec cette correspondance une etiquette a endos collant sur laquelle est inscris mon addresse de retour, et quelques especes en devises americaines pour defrayer les couts postaux.

Je vous remercie de votre attention.

(signed)

There you have it. All you need to do is make changes for frequencies, times, channel numbers and vessel names. Note, too, that the end of the last paragraph mentions an enclosure of 'green stamps' (devises americaines), which you may or may not want to go along with.

And while we're on the topic of foreign-language reception reports, if there's anyone out there who has versions of cover-letters in languages other than English, it'd be great to share them with other QSL'ers, and facilitate the task of getting veris from non-English stations.

Until the next time, good QSL'ing and ZKJ.

Thanks to this month's contributors:
(MK) Mark Kirkster, USA
(TO) Tony Orr, USA
(MR) Michael Rivkin, USA
(HS) Henning Sandte, Germany

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________|                SURFING THE LONGWAVES                   |________
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RADIO ON AUDIO

Well, here we are again, friends, with another edition of the column dedicated to spectrum's lowest, but certainly not least, end. It's been very quiet lately, and I don't mean the band. We haven't had much in the way of contributions to the column, and so we remained silent. I trust that those who owe me stuff are busy writing, and the rest of you are wringing your minds for some good article ideas. Just remember that the column purports to be a forum for all WUNers brave enough to venture into the depths of radio's basement band. We desire to hear from you, with your news, happenings, experiences, discoveries, successes, and not-so-successes in your travels towards the DC end.

This month, I am thrilled to present to you an article on a band too low even for some longwavers: The "audio" band! The frequencies that lie below the coverage of your average receiver, possess a surprising secret: Signals made by the earth itself! In the audio zone, these signals don't really need any type of demodulation. They can be simply received, amplified, filtered and listened to!

To introduce the WUN readers to this fascinating part of the spectrum, we have an article which was written by Steve McGreevy, who is an authority in this part of the spectrum, and forwarded to the column by Ary Boender. It is reprinted with kind permission of the author who has a page where a link to the WHistler Serenade VLF story and also Gail West's story can be found now. It is: http://www.netcom.com/~spmcgrvy/index.html

Here, then, is part 1 of this fascinating article. Enjoy!

++++++++++++++++++++++++
''A WHISTLER SERENADE''
(Part 1 of 3)

A LISTENER'S STORY ABOUT ELF/VLF "NATURAL RADIO"
EMISSIONS OF EARTH IN THE 0.1 TO 10 kHz FREQUENCIES

By Stephen P. McGreevy
(spmcgrvy@ix.netcom.com or s.mcgreevy@genie.geis.com)

Few people know of (and even less people have been fortunate enough or had the gumption to tune into) the beautiful radio "music" produced naturally by several processes of nature including lightning storms and aurora, aided by events occurring on the Sun. I have been fascinated with listening to naturally-occurring radio signals since about the middle of 1989, hearing my first whistlers almost immediately after first trying out a rudimentary receiving apparatus I had put together for the occasion.

Whistlers, one of the more frequent natural radio emissions to be heard, are just one of many natural radio "sounds" the Earth produces at all times in one form or another, and these signals have caught the interest and fascination of a small but growing number of hobby listeners and professional researchers for the past four decades.

"Natural Radio," a term coined in the late 1980's by California amateur listener and researcher Michael Mideke, describes naturally-occurring electromagnetic (radio) signals emanating from lightning storms, aurora (The Northern and Southern Lights), and Earth's magnetic-field (the magnetosphere). The majority of Earth's natural radio emissions occur in the extremely-low-frequency and very-low-frequency (ELF/VLF) radio spectrum

specifically, at AUDIO frequencies between approximately 100 to 10,000 cycles-per second (0.1-10 kHz). Unlike sound waves which are vibrations of air molecules that our ears are sensitive to, natural radio waves are vibrations of electric and magnetic energy (radio waves) which though occurring at the same frequencies as sound cannot be listened to without a fairly simple radio receiver to convert the natural radio signals directly into sound.

Whistlers are magnificent sounding bursts of ELF/VLF radio energy initiated by lightning strikes which "fall" in pitch. A whistler, as heard in the audio output from a VLF "whistler receiver," generally falls lower in pitch, from as high as the middle-to-upper frequency range of our hearing downward to a low pitch of a couple hundred cycles-per-second (Hz). Measured in frequency terms, a whistler can begin at over 10,000 Hz and fall to less than 200 Hz, though the majority are heard from 6,000 down to 500 Hz. Whistlers can tell scientists a great deal of the space environment between the Sun and the Earth and also about Earth's magnetosphere.

The causes of whistlers are generally well known today though not yet completely understood. What is clear is that whistlers owe their existence to lightning storms. Lightning stroke energy happens at all electromagnetic frequencies simultaneously that is, from "DC to Light." Indeed, the Earth is literally bathed in lightning-stroke radio energy from an estimated 1,500 to 2,000 lightning storms in progress at any given time, triggering over a million lightning strikes daily. The total energy output of lightning storms far exceeds the combined power output of all man-made radio signals and electric power generated from power plants. Whistlers also owe their existence to Earth's magnetic field (magnetosphere), which surrounds the planet like an enormous glove, and also to the Sun. Streaming from the Sun is the Solar Wind, which consists of energy and charged particles, called ions. And so, the combination of the Sun's Solar Wind, the Earth's magnetic field surrounding the entire Planet (magnetosphere), and lightning storms all interact to create the intriguing sounds of whistlers.

How whistlers happen from this combination of natural solar-terrestrial forces is (briefly) as follows: Some of the radio energy bursts from lightning strokes travel into space beyond Earth's ionosphere layers and into the magnetosphere, where they follow approximately the lines-of-force of the Earth's magnetic field to the opposite polar hemisphere along "ducts" formed by ions streaming toward Earth from the Sun's Solar Wind. Solar Wind ions get trapped in and aligned with Earth's magnetic field. As the lightning energy travels along a field-aligned duct, its radio frequencies become spread out (dispersed) in a similar fashion to light shining into a glass prism. The higher radio frequencies arrive before the lower frequencies, resulting in a downward falling tone of varying purity.

In this manner, a whistler will be heard many thousands of miles from its initiating lightning stroke and in the opposite polar hemisphere! Lightning storms in British Columbia and Alaska may produce whistlers that are heard in New Zealand. Likewise, lightning storms in eastern North America may produce whistlers that are heard in southern Argentina or even Antarctica. Even more remarkably, whistler energy can also be "bounced back" through the magnetosphere near or not-so-near the lightning storm from which it was born! There will be additional discussion of this "theory of whistlers" in the next few pages.

Considered my many listeners to be the "Music of Earth," whistlers are amongst the accidental discoveries of science. In the late 19th century, European long-distance telegraph and telephone operators were the first people to hear whistlers. The long telegraph wires often picked up the snapping and crackling of lightning storms, which was mixed with the Morse code "buzzes" or voice audio from the sending station. Sometimes, the telephone operators also heard strange whistling tones in the background. They were attributed to problems in the wires and connections of the telegraph system and disregarded. The first written report of this phenomenon dates back to 1886 in Austria, when whistlers were heard on a 22-km (14 mile) telephone wire without amplification. A paper by W.H.

Preece (1894) appearing in Nature Magazine describes operators at the British Government Post Office who listened to telephone receivers connected to telegraph wires during a display of aurora borealis on March 30 & 31, 1894. Their descriptions suggest they heard whistlers and the "bubbling/murmuring" sounds of "Chorus" from aurora. During World War I, the Germans and Allied forces both employed sensitive audio-amplifiers to eavesdrop on the enemy's telephone communications. Metal stakes were driven into the ground next to enemy telephone wires and were connected to tube-type high-gain amplifiers, whereby the audio signal in the telephone wires could be eavesdropped. This early form of electronic espionage worked fairly well most of the time, despite the bubbling and crackling background noise made by lightning but not always. On some days, the telephone conversations they were eavesdropping on were partially or wholly drowned out by strange whistling sounds. Soldiers at the front would say, "you can hear the grenades fly." These whistling sounds, described as sounding almost like "piou," were at first attributed to the audio amplifiers' circuitry reacting adversely to strong lightning discharge noises. When laboratory tests on the high-gain audio amplifiers failed to recreate the whistling sounds, the phenomena was then considered "unexplainable" at that time. (H. Barkhausen, 1919).

In 1925, T. S. Eckersly of the Marconi Wireless Telegraph Company in England, described disturbances of a musical nature that had been known to "radio" engineers for many years. They were heard when a telephone or any other "audio-recorder" system was connected to a large aerial. What they were hearing are now known as "tweeks," a common ringing and pinging sound that lightning discharge radio energy (sferics) atmospherics sound like at night with a VLF receiver or audio amplifier. Several people began to observe how lightning and auroral displays coincided with many of the strange sounds they were hearing with their audio apparatus (Barkhausen, Burton, Boardman, Eckersly, et al.). In the 1930's, the relationship of whistlers and lightning discharges was hypothesized, and in 1935, Eckersly arrived at the commonly accepted explanation that lightning initiated radio waves traveling into Earth's "ionosphere" caused these tweek sounds. They were getting "close."

Interest in whistlers waned during World War II but was renewed with the development of sound spectrographs and spectrum analyzers, which could trace the time-versus-frequency component of audio sounds. This technology was developed mainly for the study of the sound characteristics of speech and other sounds, but these also were fine tools for the exploration of whistlers, as well (R. K. Potter, 1951).

It was during this time that L.R.O. Story in Cambridge, England, had begun an in-depth investigation into the nature and origin of whistlers. Armed with information presented by Barkhausen, Boardman, et al., a homemade spectrum analyzer and other audio-frequency radio equipment, Storey studied whistlers in earnest, discovering several types of whistlers that were or were not audibly associated with lightning discharge "clicks" in the receiver. He was able to make graphs of many kinds of whistlers, forming the basis of the modern "magneto-ionic" theory of their origin, and also the effects of Earth's magnetic storms on whistlers.

Storey's conclusion that whistlers were formed by lightning discharge energy echoing back and forth along the lines-of-force of earth's magnetic field suggested that there was a much higher than expected ion density in the outer ionosphere and beyond, and that the source of this "extra" ionization was linked to the sun. He also (correctly) presumed these ions from the sun also were responsible for magnetic storms and auroral displays.

Storey, while mainly concentrating on whistlers, was able to hear and categorize a number of other audio-frequency emissions that he heard, including Dawn Chorus, steady hiss, and certain "rising whistlers," also known as "risers". Story's studies throughout the early-to-mid 1950's made an important contribution to whistler theory by showing that whistlers travel very nearly in the direction of Earth's magnetic field. In 1952, the results of Storey's work were presented by J. A. Radcliffe to the 10th General Assembly of the URSI held in Sydney Australia, exciting considera

ble interest among the delegates in attendance. Radcliffe's report greatly stimulated whistler research at Stanford University, headed by the "Father of Whistler Research," R. A. Helliwell.

In 1954 at the next URSI General Assembly held in the Hague (Netherlands), whistler theory was discussed in depth, and plans were devised to study whistlers at opposite "conjugate" points of Earth's magnetic field. Lightning storm atmospherics observed in one hemisphere were heard as "short whistlers" (1-hop whistlers) in the opposite hemisphere. This notable observation was conducted by Helliwell at Stanford in California and aboard the U.S.S. Atka located in the South Pacific near the opposite magnetic conjugate point. Lightning storms generating atmospheric static "pops" as heard in the ship's onboard VLF receivers were heard nearly simultaneously in Stanford as short whistlers. Even more verification of Storey's whistler was confirmed by the observation of whistler "echo trains" simultaneously heard in Alaska and in Wellington, New Zealand, which lies at the opposite magnetic conjugate from Alaska.

With this generalized history of whistler discovery and research in mind, I should pause this history lesson and now explain whistler theory in somewhat greater detail. The generally accepted theory of whistlers (Storey, Morgan, Helliwell) is as follows (the following few paragraphs are taken directly from the text of my WR-3 "Whistler Receiver" Listening Guide and repeat some information presented earlier in this article as well as hopefully making clearer some terms I've been tossing about):

> The Earth's outer magnetic field (the "magnetosphere") envelopes the Earth in an elongated doughnut shape with its "hole" at the north and south magnetic poles. The magnetosphere is compressed on the side facing the Sun and trails into a comet-like "tail" on the side away from the Sun because of the "Solar Wind" which consists of energy and particles emitted from the Sun and "blown" toward Earth and the other planets via the Solar Wind. Earth's magnetosphere catches harmful electrically charged particles and cosmic rays from the Sun and protects life on Earth's surface from this lethal radiation. Among the charged particles caught in the magnetosphere are ions (electrically charged particles), which collect and align along the magnetic field "lines" stretching between the north and south magnetic poles.
>
> These magnetic-field aligned ions bombarding Earth's magnetosphere form "ducts" which can channel lightning-stroke electromagnetic impulse energy. Whistlers result when an electromagnetic impulse (sferic) from a lightning-stroke enters into one of these ion-ducts formed along the magnetic lines of force, and is arced out into space and then to the far-end of the magneto-ionic duct channel in the opposite hemisphere (called the opposite "magnetic conjugate"), where it is heard as a quick falling/descending emission of pure note tone or maybe as a brief "swish" sound. Whistlers sound the way they do because the higher frequencies of the lightning-stroke radio energy travel faster in the duct and thus arrive before the lower frequencies in a process researchers call "dispersion." A person listening with a VLF receiver like the WR-3 in the opposite hemisphere to the lightning stroke (at the far end of the Magnetospheric duct path) will hear this "short" or "1-hop" falling note whistler. One-hop whistlers are generally about 1/3 of a second to 1 second in duration.
>
> If the energy of the initial short/1-hop whistler gets reflected back into the magneto-ionic duct to return near the point of the originating lightning impulse, a listener there with a VLF receiver will hear a "pop" from the lighting stroke impulse, then roughly 1 to 2 seconds later, the falling note sound of a whistler, now called a "long" or

"2-hop" whistler. Two-hop whistlers are generally about 1-4 seconds in duration depending on the distance the whistler energy has traveled within the magnetosphere. One-hop whistlers are usually higher pitched than two-hop whistlers.

The energy of the originating lightning stroke may make several "hops" back and forth between the northern and southern hemispheres during its travel along the Earth's magnetic field lines-of-force in the magnetosphere. Researchers of whistlers have also observed that the magnetosphere seems to amplify and sustain the initial lightning impulse energy, enabling such "multi-hop" whistlers to occur, creating long "echo trains" in the receiver output which sound spectacular! Each echo is proportionally longer and slower in its downward sweeping pitch and is also progressively weaker.

Conditions in the magnetosphere must be favorable for multi-hop whistler echoes to be heard. Using special receiving equipment and spectrographs, whistler researchers have documented over 100 echoes from particularly strong whistlers--imagine how much distance the energy from the 100th echo has travelled--certainly millions of miles! Generally, only one to two echoes are heard if they are occurring, but under exceptional conditions, long "trains" of echoes will blend into a collage of slowly descending notes and can even merge into coherent tones on a single frequency, hard to describe here, but quite unlike any familiar sounds usually heard outside of a science-fiction movie!

Back to the history of whistler research. Plans for studying whistlers, chorus, and other audio-frequency natural radio phenomena were formulated by Dr. J. G. Morgan of the University of New Hampshire in Hanover as well as Dr. Helliwell at Stanford, for the International Geophysical Year which would begin in 1957. Over 50 receiving stations were set up at many locations all over the globe, including remote locations in northern Canada, Alaska, Europe including Scandinavia, and even Antarctica. This period was the beginning of the most intensive professional study of whistlers ever. In the early 1960's, a couple of satellites (IEEE-1, Injun, Allouette) destined for low Earth Orbit were outfitted with VLF receivers. These satellite-based VLF radio receivers successfully recorded whistlers, and greatly enhanced scientific knowledge of natural VLF radio emissions. During the 1970's, space probes, such as Pioneer and Voyager, would disco ver whistlers happening on other planets of our Solar System, such as Jupiter and Saturn, which both have enormous and powerful magnetospheres. These Gas Giants also have huge magnetospheres and their own polar aurora as well.

The 1980's saw increasing hobbyist and amateur observations of whistlers, thanks to the increasingly easy availability of solid-state electronic parts and VLF receiver construction articles and notes. By 1985, whistler articles and receiver designs would appear in several electronic and radio hobbyist magazines, and also radio club bulletins most notably the Longwave Club of America's monthly bulletin, THE LOWDOWN. Several LWCA members including Michael Mideke, Mitchell Lee, Ev Pascal, Ken Cornell, and others, would publish and or design and use their own successful whistler receiver versions. These hobbyist whistler receivers tended to use small loop or wire antennas, unlike the "professional" VLF receivers used during the late 50's and early 1960's, which used very large loop and/or tall vertical "pole" antennas.

One radio "mentor" who sparked my fascination with whistlers and Natural Radio is a gentleman named Michael Mideke, who has been an avid enthusiast involved in various esoteric radio (and non-radio) pursuits since the early 1970's. Mike taught me quite a considerable amount of knowledge about longwave radio receiving and transmitting experimentation at radio frequencies much higher than Natural Radio, and he himself began regularly

monitoring Natural Radio about the middle of 1988, more than a year before I would hear my first whistler in the Oregon desert. For the past 25 years, Mike, his wife Elea, and two sons lived as caretakers on a large ranch in a remote central California canyon, far from electric powerlines. Here, Mike was able to string out antenna wires over thousands of feet in length and running in several different compass directions, and connect them to his plethora of radio receivers. His remote, electrically-quiet location was also ideal for listening to whistlers. Over the years, Mike has also made many hundreds of hours of recordings of amazing radio sounds of the Earth. He was particularly fortunate to be able to monitor 24 hours a day during the height of the sunspot cycle from 1989-1991 when solar activity, geomagnetic disturbances, and whistlers were most numerous. Mike also passed along the results of his own receiver experimentation, thus positively influencing my own receiver experimentation. In late summer of 1990, I began experimenting with whistler receivers employing short whip antennas no longer than 5 to 6 feet in length. These "whip receivers" successfully monitored whistler activity, though my earliest versions lacked sensitivity. I must credit the original idea of using a short whip antenna to a longtime close friend and fellow whistler enthusiast, Gail West, who lives in Santa Rosa, California and has accompanied me on many of my road trips and whistler listening expeditions. Gail repeatedly witnessed my frustration with stringing out unwieldy wire antennas, and on one particular morning (summer 1989) in the northern Nevada desert, commented "it sure would be nice to use just a small whip antenna rather than long wires for a whistler receiver antenna." Also, while on a solo listening session in the hills of Marin County, California in February 1990, I heard a strong whistler howl from the tape recorder's speaker with nearly all but about 10 feet of antenna wire rolled back onto the spool. This experience reminded me of Gail's idea and made the whip antenna idea seem more plausi ble. While the idea of a hand held whistler receiver seemed somewhat wish ful thinking early on in my experimentation with whistler receivers, it would become reality in just over two years of whistler listening and receiver tinkering.

Increasingly better and more sensitive yet simpler whip antenna whistler receivers were continuously devised on my workbench. On a beautiful spring morning in May 1991 while hiking on a trail in the mountains east of San Diego with friend Frank Cathell of Conversion Research, I demonstrated my BBB-2 whip antenna whistler receiver. Frank was so fascinated with this receiver that he jumped on the bandwagon, and by August 1991 after a furious 3 months' of receiver tinkering, Frank and I created a sensitive battery-powered whistler receiver that required only a small 33-inch antenna, was cigarette pack sized and very portable, called the "WR-3," and we shortly began selling this new pocket receiver on a casual basis. The WR-3 opened up whistler monitoring to practically everyone-even non-technical people willing to at least undertake the effort of finding a reasonably powerline "hum" free location where whistlers and other natural VLF radio phenomena could then be listened to and enjoyed as easily as listening to regular broadcast radio. At this point thanks to the WR-3, whistlers and lightning sferics were very easy to hear now it was just up to Mother Nature to put on a show.

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We will continue with part 2 of Steve's fascinating article next time. If you are on the Web, you can find some great samples of recorded whistlers on Steve's Web pages, at http://www-pw.physics.uiowa.edu/mcgreevy/ Among all kinds of information, Steve has placed a number of zipped sound files for you to download and hear. Check it out!

A belated, but very sincere thanks to Kevin Carey, WB2QMY, the well-known longwave columnist of Monitoring Times, for mentioning our little effort, and WUN in general ("Below 500 kHz" column, June 1996 Monitoring Times). In fact, his column contains a whole list of longwave-related resources on the Internet, something that I had wanted to do in this column also. Thanks again, Kevin.

To all those who have written to me, but had no reply, I say, please be

patient. Life has been very busy for me lately, and the Internet had to take the back seat. I will respond to all of you very soon!

That's it for now, radio friends. Until next time,

73 es gud DX, de
George, N2OWO

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Howdy folks, most of this month's space is occupied by the second article written by Angelo Brunero. Should you have anything that you wanna share with WUN please don't hesitate to write. Visited a ute station lately ? Tell us all about it ! Read an interesting article ? Gimme a copy ! Heard a special or weird station ? Let us know !
Come on people, we have over 1000 members and I received info from only 2 (TWO) of you. You ought to be a little ashamed of yourself ! Yes, I really mean it.... Remember, the newsletter is FOR members BY members. Not one of the editors can fill his column every month without your continuous support. So don't let us down. Thanks for listening :-) Enjoy ! -Ary-

News

o Most members in the USA and Canada probably know what a LOWFER is. These Low Frequency Experimental Stations are around for many years. New Zealand has also special low frequency stations in the range 165-190 kHz. Most of them can be found around 181 kHz though. Some permits have been issued in Australia and Papua New Guinea as well. Now also the UK joined the LOWFER ranks with the allocation at 73 kHz with 2.8 kHz bandwith, so the actual range is 71.6-74.4 kHz. The output is 1 Watt max. and all modes, except FSTV, are allowed. Although the stations on these frequencies are no real utility stations, I think they form a new challenge for many LW dxers. Good hunting and let me know what you catch ! <source Alan Gale>

o There is a new TIS station on the air at Chicago o'Hare Intl Airport. Check 870 kHz when you are around.

o Super shack.
What radio equipment can you find aboard the Dutch M-Frigates ? A dxer's dream, believe me. An APECS II integrated Early Warning system, Link 11 and ESI SHF satcom systems, 4 HF/MF wideband low-power transmitters, 2 HF narrowband high-power transmitters, a LF/MF/HF receiving system, 8 UHF tranceivers, and a MF emergency transceiver. Then the antenna farm: 4 HF wideband antennas, 2 HF narrow-band antennas, 6 HF low wideband andtennas, an UHF combined antenna / APECS II omni, a couple of APECS II monopulse receive antennas, a MF wire antenna, a GPS antenna, and a couple of VLF/ LF/MF/HF receive antennas. Wow, isn't that a super shack ?

THE INVENTION OF THE RADIO

Authors: Angelo Brunero (IK1QLD) & Andrea Borgnino (IW1CXZ)
Translation: Andrea Valori (IK1QFT)
Marconi home page: http://www.alpcom.it/hamradio

During the second half of the last century scientists were searching for a way to communicate wireless; but many attempts made with electromagnetic waves didn't lead to any result.
Scotsman Clark Maxwell demonstrated mathematically how electromagnetic "actions" did spread with an "undulatory" movement. In 1887 the German Heinrich Hertz, using periodic currents at very high frequency, demonstrated the real existence of electromagnetic waves transforming the "undulatory movement" into a stationary phenomenon, which could be easily checked in a laboratory. The italian physicist Augusto Righi continued and improved in Bologna Hertz's work, demonstrating also the

complete identity between optical and electrical vibrations. In 1884 Temistocle Calzecchi-Onesti, teacher in the lyceum of Fermo, noticed the influence of electrical discharges of athmosferic perturbations on iron filing, constructing the famous "tube" which was named by the english physicist Oliver Lodge in 1894 the "coherer". The same Lodge, with the coherer improved by the French Branly in the Cambridge experiments, could notably increase the reception gain of the Hertzian waves. Finally in Kronstadt the Russian Popov used the Lodge coherer acting with atmospheric disturbances collected with a rudimentary antenna: a vertical metal pole. These were the main scientific conquests which led to the comprehension of identity between light and electromagnetic action, that took Guglielmo Marconi to his wonderful discovery, producing the device capable to make the electromagnetic waves travel the air, confined in conductive media as the ionosphere and the earth surface, and still capable to preserve precisely their own features.

GUGLIELMO MARCONI was born in Bologna in april the 25th, 1874. His father was named Joseph and his mother, Annie Jameson, protestant, was the second wife of his father. From his mother he inherited tenaciousness and perseverance, and knowledge of English language; from his father a strong will and business skill. When seven years old he entered the Istituto Cavallero in Florence, and in 1885 the Istituto Nazionale in Livorno, where meanwhile the family had moved. In Livorno Guglielmo acquired also a religious culture in the local Valdese church, where he was "confirmed" in 1882; in fact his mother before marrying laid down the condition that her sons would have been educated as protestants. Guglielmo's first wife was a protestant: Beatrice O'Brien.

Self-taught person, when he was just eighteen, felt the growth of an irresistible vocation inside for physics and electricity. Pupil in Livorno of professors Vincenzo Rosa and Giotto Bizzarrini, he acquired a more rigorously scientific way of thinking in a crucial moment for the direction of his studies. He knew well the ideas and theories of Maxwell, the experiments of Hertz, Righi, Calzecchi-Onesti, Branly. During the summer 1894, during his family vacations on the mountains near Biella (in the surroundings of Turin), young Guglielmo could meditate on Hertz's experiments, and had the idea to use the Hertzian waves to communicate. This was his marvelous idea, never thought of before by anybody. During the following Fall, in the villa in Pontecchio near Bologna, the twenty-years-old boy transformed the granary in his laboratory, working night and day among rolls of copper wire, brass spheres, Ruhmkorff coils, Morse keys and electric bells, realizing the first elementary radio sets. The first weak signals could reach few hundred meters: from the window of the granary where was placed the transmitter to the hill at the end of the garden where was the receiver, the three points of the letter S travelled the space, reaching the destination, and the farmer waved his handkerchief to show the successful reception. But Marconi wanted to get over the obstacles of the ground and connect two reciprocally invisible points. He took the receiver to the other side of the hill, where Mignani with his gun waited for the ring to sound three times. From the granary Marconi pushed three times the key of the transmitter and heard the answer of a distant gunshot: electromagnetic waves had overtaken the obstacle, radio communications where now possible!
It was April 1895. For this experiments Marconi used the oscillators of Hertz and Righi, but the waves where too weak to go too far. He overcame the difficulties connecting to the oscillator an antenna and a ground, thus obtaining more power.

In 1886 he obtained his first patent, which he presented to the Italian government of that time, offer that wasn't even considered. His mother, understanding the importance of the invention, wrote to her parents in England, who advised her to send him to London, where it could have been easier to find the money necessary to develop the invention. On February 2, 1896 Marconi left for England where, with the help of engineer David Jameson, his mother's cousin, he was introduced to the director of the Post and Telephones company, Sir William Preece, who

became an enthusiastic supporter. On July 27 he performed his first official experiment from the terrace of the Post Office to the Salisbury plain. Other transmissions where performed successfully across the Bristol channel, between Penarth and Weston. In 1897 Marconi founded the first organization for the commercial development of his invention and in July of the same year, invited by the Italian government, came back to Italy and performed in La Spezia a communication between the arsenal and the battleship San Martino, surpassing the distance of 18 km. Back in England, on July 20 Marconi founded the Wireless Telegraph Trading Signal Co. LTD. In November the first Marconi fixed station was built near the Needless on the Isle of Wight. Its first connections were with Bournemouth 23 km away.

In May 1898 Marconi realized the first equipment with tuning circuits to guarantee the independence of simultaneous communications between more stations (the future and famous patent 7777), and in July of the same year he carried out the first journalistic radiotelegraphic service for the Daily Express during the Royal Yacht Club Regatta, reporting from the deck of the yacht Flying Hontress to Kingstown, which was connected via telephone to Dublin. On August the 26th for the first time a help signal was sent from a lighthouse boat using wireless telegraphy; on March 3 was made the first rescue of the shipwreck of a boat, the Mathens, using radiotelegraphy. On day 27 of the same month Marconi achieved the telegraphic connection between England and France, from Wimereux near Boulogne-sur-Mer to South Foreland near Dover, a distant 32 miles. In September Marconi went to the United States where he carried out the connection between the cruisers New York and Massachusetts of U.S. Navy. In this period he improved his equipment to overcome the difficulties in order to obtain more distant connections, to get over the mountains and most of all the curve of the earth surface, which scientists considered unsuperable to the radio waves. It is the year 1900: the Wireless Telegraph Trading Signal Co. LTD. changes its name into Marconi Wireless Telegraph Co. and on April 26 he obtains the historical English patent no 7777 on his first tuning equipment. In October he ended building the Poldhu station in Cornwall, the most poweful telegraph station ever built until then. On November 26, 1901 Marconi with his two assistants Paget and Kempt embarked in Liverpool and reached St. John's in Terranova, where he built another radio station: on December 12th around 12.30LT Marconi received three weak signals corresponding to letter S in Morse code. For the first time in the world electromagnetic waves had crossed an ocean.

On February 22 Marconi embarked on the boat Philadelphia bound to America to build a big radio statio in Glace Bay in Nova Scotia, upon invitation of the canadian government. During the trip the scientist made important experiments discovering the harmful influence of solar radiation on transmissions, and, as he saw that the coherer did not meet the increasing needs of stability of reception, created a new kind of detector. This new device will be the Magnetic Detector, which will be patented on June 25, 1902. He will use it for the first time on board of the Italian battleship Carlo Alberto, at his disposal from the Italian government for the famous radiotelegraphic campaign from Naples to Kronstadt in Russia, always keeping contact with Poldhu station.

In the October of the same year the boat was bound to Canada to Glace Bay, where Marconi started the experiments to communicate across the Atlantic ocean from the other side, that is from America to Europe; Poldhu station worked as a receiver. For a long time every communication was impossible and from Poldhu via cable line the only message was "standard", that is "we haven't received anything". At last on December 15 the message received from Poldhu changed in "greentime", that is "we have received some signals", while on day 18 the reception became intelligible, and transmission was sure on both directions: the first transoceanic bilateral transmission was over. On September 1903 during the boat trip from England to United States on board the ss Lucania, Marconi established the first press agency between Europe and America, starting regular printing of newspapers on board during the trip across the Atlantic.

In 1904 Marconi built the rotating oscillator discovered the directive properties of horizontal antennas, and started to use Fleming thermoionic valves. In 1905 he patented his directive horizontal antennas, which permitted a tremendous increase of the strength of received signals.

On december 10, 1909 Guglielmo Marconi was awarded the Nobel prize for Physics.

In 1912 Marconi invented a new way to generate continuous waves, called "multiple sparks system", a smart intermediate point between the previous spark instruments and those with continuous wave. In 1914, after the improvement of radiotelephonic instruments using triode thermoionic valves, he experimented successfully a regular radiotelephonic service: it was the birth of radiophony. At the outburst of World War First he enrolled in the Italian Army as an officer. In March 1916, following some problems in using long waves during military operations, Marconi started realizing the first VHF radios, opening thus a wider horizon to the development of radio communications. In 1916 he bought the boat Elettra, which became his personal laboratory, where he attended his studies and his researches. Knowing the peculiar properties of short waves, in 1922 Marconi recommended their use instead of long waves, and between June and July 1923 he performed very important experiences between Poldhu and the Elettra, moored in the islands of Palo Verde (nearly 4000 km), obtaining such results that led him to try even farther. In 1924 Marconi built numerous short wave stations, in the 30-60 Mhz band, for british government, and on may 30 of that same year took place the first regular transmission of human voice between England (Poldhu) and Australia (Sydney).

On october the 5th the italian Ministry of Communications authorized the "Italian Radiophonic Union Society" to start radio auditions in Italy. On june 15 Marconi married his second wife, the countess Maria Cristina Bozzi Scali (desappeared recently), and on january the 1st., 1928 he was named president of C.N.R. (National Research Council). On March 26, 1930, from aboard the Elettra moored in the harbour of Genova, he sent a signal that, after covering 14.000 miles, lighted Sydney town-hall. In September the 17 he was named President of Italian Royal Academy. Because of the start of regular raio services all throughout the world, the air was becoming more and more jammed with signals; Marconi then opened new horizons to the radio, improving the reflecting radios, which worked on frequencies below one meter. On February 12, 1931 Marconi, in the presence of Pope Pius IX, inaugurated the new Vatican Radio Station, and on september the 13 of that same year, from his office in Rome, Marconi lighted up the statue of the Redeemer in Rio de Janeiro, via the Coltano repeater. In this period Marconi demonstrted the possibility of using microwaves communicating between Santa Margherita Ligure and Levanto (36 Km.). In 1932 he built the permanent radiotelegraphic con-ection between the Vatican and Castel Gandolfo (summer seat of the Pontifex). In the days 2-11 of August of that year he made important experiments between Rocca di Papa and the Elettra until the distance of 224 km. (127 km beyond optical reach) and between Rocca di Papa and Senapro of Capo Lipari in Sardinia, at the distance of 269 Km., using a wavelength of 57 cm!

In July the 26, 1934 Marconi established the radiotelegraphic connection between the Elettra and the radio beacon in Sestri Levante with a wave-length of 63 cm., demonstrating how a ship could, in case of fog and in total blindness, find safely the entrance of a harbor. In March 1935 on the via Aurelia he performed some distant search experiments which would eventually lead to the invention of radar. Together with microwaves, he studied also television, foreseeing the future, and started research on therapeutic use of radiowaves (Marconiterapia).

Guglielmo Marconi died of a heart attack in Rome on july 20, 1937. To remember his name, his multiform activity as researcher, inventor, experimenter, scientist and scholar, radios all around the world observed a long minute of silent regret.

His example, his precious work, his way to conduct experiments and trials with both exactitude and scientific method, his stubborness to lead the tests until the deep and complete understanding of the phenomenon, his devotion, his firmness, his enthusiasm, his committment are an inestimable heritage and an example that all of us radioamateurs have done our possession; it is through the work of radioamateurs that the world has been enriched of new discoveries, knowledge, positive results about radio and in all those fields that progress has related to the radio. Few men in the world had the satisfactions that had Marconi during his life: I think of all that has been done, of all the reached goals, satisfactions that we HAMs can understand, maybe better than any other. A feeling of admired gratitude goes to Guglielmo Marconi every time I switch on my transceiver and with the simple manipulation of a key I can communicate my emotions to another radio experimenter. I am thus proud, as I hope will be all HAMs, to be a part of that class who received the heritage and the patrimony of Guglielmo Marconi.

The General Lighthouse Authorities

During my vacation in England last May, I visited the depot of Trinity House in Penzance, Cornwall. Being interested in radio beacons, DGPS and lighthouses in general, this was a good place to visit. They have a permanent exhibition and information is available. So keep this in mind next time when you are in the neighbourhood. Penzance is also close to RNAS Culdrose, a Navy SAR base and RN's main facility for heli training. Also near is the British Telecom Earth Station at Goonhilly Downs, a must see for all you antenna lovers. Some 30+ giant satellite dishes inhabit this site which is open to visitors.

This month I will tell you a little more about the General Lighthouse Authorities (GLAs). GLAs are the collective authorities of the three lighthouse organizations in the United Kingdom and the Irish Republic, namely:

Northern Lighthouse Board
  - Scotland, Shetland Islands, Orkney Islands and the Isle of Man
  - maintaining ??? (no data received)
Corporation of Trinity House
  - England, Wales, Scilly Islands and Channel Islands
  - maintaining 72 lighthouses, 11 lightvessels, 2 light float stations, 22 beacons, 400+ buoys (320 lighted), 14 radio beacons, 11 Decca stations, 48 racons, 1 Bolkow 105D heli, 2 lighthouse tenders (THV Mermaid and THV Patricia), 1 maintenance vessel (THL Vectis), 1 rapid intervention craft (THL Ready) and a number of launches to carry out routine maintenance to lightvessels and smaller buoys.
Commisioners of Irish Lights
  - Irish Republic and Northern Ireland
  - maintaining 80 lighthouses, 2 automatic light floats, 145 buoys (119 lighted), 19 beacons (2 lighted), 29 perches (1 lighted), 1 fog signal station, 2 large automatic navigational buoys, 3 control/monitoring and communications relay stations, 18 racons, 8 radio beacons and 7 helicopter landbase pads with refuelling facility. The services of Irish Helicopters are widely used in resupplying remote stations.

Each look after their own lighthouses/ships and maritime radio beacons. Strangely enough none of them have anything to do with the DGPS transmissions. This service is provided under licence from the GLAs to a commercial company called Scorpio Marine. This is probably the reason why DGPS is encrypted in the UK and Ireland. They provide the service for a subscription fee where-as most other countries provide the service for free. Although the GLAs announced a free DGPS service by the end of 1996, a new agreement between the GLAs and Scorpio was signed a couple of weeks ago extending Scorpio's commercial DGPS service until the end of 1998. So, a free DGPS service may be delayed until 1999.

The overal mix of systems currently available or planned will adequately meet the operational requirements for the planned period (1995-2015).

The continuing provision of traditional aids like waymarks and light-houses for at least 20 years. Most lighthouses will be automated within the next couple of years. After the completion of the new NELS station in Ireland earlier this year, Loran-C is now officially the terrestial radio navigation system for Europe as a backup for the satellite systems like GPS and GLONASS. Loran-C is fully compatible with the Russian Chayka system. The current UK DECCA chains will be dismantled in 1999 while most of the radio beacons will disappear before the year 2000.

Note: for more detailed information about the above mentioned radio navigation systems, please read my columns in newsletters 11/95, 12/95, 01/96 and 02/96.

Here is a list of the radio beacons maintained by the GLAs. See this month's 'Digital Review' for a list of DGPS stations.

*) Calibration station (mode: CW)
lt = lighthouse, lv = light vessel, lf = light float

284.5 LZ Lizard Point lt
286.0 TR Tuskar Rock lt, Ireland
286.5 NK Inchkeith lt
286.5 BC *) Baily lt, Ireland
288.0 OH Old Head of Kinsale, Ireland
289.0 BY Baily lt, Ireland
289.0 BL Butt of Lewis lt
290.0 FD Fidra lt
290.5 DY Duncansby Head lt
290.5 SB South Bishop lt
291.5 SU South Rock lf, Northern Ireland
292.0 SJ Souter lt
293.0 RN Rhinns of Islay lt
293.0 CP S.Catherine's Point lt
294.5 KC *) Old Head of Kinsale, Ireland
294.5 BA *) Black Head lt, Northern Ireland
294.5 BM Brighton Marina
294.5 FP *) Foreland Point lt
294.5 PS *) Point Lynas lt
294.5 PT *) Souter lt
294.5 UK Sunk lv
295.5 CB La Corbiere lt, Jersey, Channel Islands
298.5 RR Round Island lt, Scilly Isles
299.5 NP Nash Point lt
300.0 CL *) Cloch Point lt
300.0 MZ Mizen Head, Ireland
300.5 DU Dungeness lt
301.5 KD Kinnairds Head lt
303.0 FB Flamborough Head lt
304.0 PS   Point Lynas lt
304.0 SB Sumburgh Head lt, Shetland Islands
304.5 GY Castle Breakwater lt, S.Petersport, Guernsey, Channel Isl.
305.0 EC Elizabeth Castle, S.Helier, Jersey, Channel Islands
305.0 FP Fife Ness lt
306.0 FN Walney Island lt
307.0 GL Eagle Island, Ireland
309.5 PB Bill of Portland lt
311.0 NF North Foreland
311.0 GD Girdle Ness lt
311.5 LP Loop Head lt, Ireland
313.0 TY Tory Island lt, Ireland
313.5 CM Cromer lt

Sources: the Commissioners of Irish Lights, Trinity House, Fishery News, Admiralty List of Radio Signals vol.2, and last but not least Day Watson.

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Howdy everyone, we're back again with lot's of logs. We had 66 contributors for this issue and thanks go out to all. we have some really neat stuff! Concerning last months column Ary Boender sent me these ID's: 6341 Unid: 1015 FAX 120 very poor weather map (EW) USCG Boston on 6340,5 perhaps?, and 6798 KUL: SOUD station 1844 RTTY 75/500 5FG'S (DG) is SOUD Moscow with a message to KUL. Thanks Ary! As usual, if you can correct, ID, or provide information for any of the logs here, please drop me a line. We try to check these as close as possible, but I know some mistakes slip through.

Last month I received in the mail from "John Doe" of London a note asking what the proper callsign was for "the USN/USAF FAX facility at Roosevelt Roads/Caribbean?" He goes on "In the logs column in March and April it has been referred to as NAU (listed as San Juan); NHF (listed as Homestead, Fla); and NRR (listed as Roosevelt Roads). "Listed" means listed in the ITU List of Callsigns)." It's also listed as USAF AWS Ceiba, PR, sometimes. Well we know it's not Homestead AFB. I posted this question out to WUN-land and no one knew the correct answer then. So, if anyone knows for sure as to the correct station sending this data, let me know. Also I asked about the move of NAM, the U.S. Navy at Norfolk, to Cutler, Maine. I understand the callsign for Cutler is "NAA" but some insist "NAM" was carried forward to the new location. Anyone have the "fax" (sorry!) of the matter once and for all?

Andreas Ibold in Germany wrote asking for ID's on: JQW26 on 11175 wkg Lajes w/pp to European DSN 727-2166. Also Navy MARS calls NNN0COT (not the decommissioned USS Fairfax County), NNN0CAT, NNN0NGU and NNN0COZ (not the decommissioned USS Forrestal). Charles Crawford is looking for the ID's on NNN0CBB, and NNN0CCL. Can anyone help?

=CIVIL AERO=

2872 Gander Radio: NF, CAN (NAT-C MWARA) 0243 USB wkg LOT 002 w/selcal ck, HS-CD (767 SP-LPB); at 0246 wkg Alitalia 609 w/posrep; at 0247 wkg Air India 102 Heavy w/selcal ck, JL-CG (747 VT-ESP). Shanwick, IRE: (NAT-C MWARA) 0245 USB wkg Speedbird 292 (BAW) w/posrep, selcal ck BG-KQ (747-400 G-CIVF). (RB)

2899 American 104 0350 USB Possibly 54 N 20 W hard to copy also Delta 22 & United 18 (LB2) Shanwick, IRE: (NAT-B MWARA) 0259 USB wkg Delta 30 w/posrep. Gander Radio: NF, CAN (NAT-B MWARA) 0300 USB wkg United 952 w/posrep, 55N/40W 0259 FL330, est 56N/30W 0341, 56N/20W next, fuel 51.8. (RB)

3016 Shanwick "Oceanic" OAC, IRL (MWARA NAT-A): 0123 USB w/AEA118 (ANEU) Santa Maria: AZR, (NAT-A MWARA) 0303 USB wkg ASCOT 3221 w/posrep, 30N/20W 0304 FL 320, selcal ck LM-BJ (RAF L1011 ZE-705). (RB)

3413 EIP: Shannon Volmet, IRL 0000 USB m EE machine voice Volmet (ANEU) Shannon: USB 0322 USB European VOLMET. (DES)

3476 Gander OAC, CAN 0135 USB w/Delta 30 (ANEU) Delta 48 0349 USB wkg Gander weak signal report on both ends. Delta 48 0349 USB wkg Gander weak signal report on both ends. (LB2) Shanwick, IRE (NAT-F MWARA) 0311 USB wkg United 942 w/posrep, 52N/40W 0310 FL 370, est 53N/30W 0356, 54N/20W next. (RB) Swissair 151 0406 USB wkg Gander/ARP 55N40W F410 relay to EWW. AmTran 8746 0435 USB HK-AM wkg Gander/Selcal ck. Roy 760 0438 USB wkg Gander/ARP 56N40W F330 (TO)

3485 Gander Radio, CAN 2355 USB m EE Volmet (ANEU)

4645 Tallin (Air?), EST 1700 USB f EE Volmet (ANEU)

5505 EIP: Shannon Volmet, IRL 0030 USB m (machine voice) EE Volmet. (ANEU)

5535 Speedbird London (British Airways) 0245 USB LDOC wkg Speedbird 74 w/selcal, adv their request was denied. (RB) BAW4 1935 USB Speedbird London/ETA EGLL 2112 req one brass padlock for duty free !! Concorde. (RD3) American 955 0522 USB AP-CQ wkg Lima FS LDOC/Selcal check rpt points (TO)

5541 WOA277 2230 USB Stockholm/Inb/d to Surabaya,fuel 47.2 N277WA MD11. ANA206 2233 USB Stockholm/Called several times pos'n 64N58E. 9MMAV

2240 USB Stockholm/psn ATIDA 2222 F330 Fuel 29.8.DC10 WOA. RIA7205 2242 USB Stockholm/dep.EKKA 2200/17 ETA KPIT 0553 Fuel 159. 5 Nil pax,uplift 16872 USgal sel/JQBE N765BE L1011 (RD3)
5547 United 953 0608 USB wkg Honolulu/ARP BRADR F350 QSY HNL CTR. United 815 0651 USB AS-DK wkg San Francisco/Selcal check. (TO)
5550 KLM 742 0728 USB AF-ER wkg NY/est 2330N6116W 0751 F330. (TO)
5598 Papa 62 2131 USB Santa Maria spelling unsure, fl310. Reach G5 2136 USB Santa Maria 43n 20w 2133 fl330 mach .83, mudos 2210, STG (Santiago). Santa Maria requests further route: [UA5] Beja [UR72] VFA (Faro) [UW11] piren - Rota (destination). 2212: In contact w/Madrid (BH) CRL924 1110 USB Selcal CKEJ. BAL259B 1115 USB Selcal ELGJ. KLM 781 1120 USB. CKT73 1120 USB Selcal JMEL. TWA917 1125 USB Selcal DJCL. AOM313 1130 USB Selcal BJHL. USA011 1130 USB. BAW169 1130 USB Selcal DHCJ. IBE6255 1210 USB Selcal DJFS. MPH603 1210 USB Selcal ARLM. CRL928 1220 USB Selcal CEFL. DAL109 1335 USB Selcal AHCM. AVA015 1340 USB (HW) GOLD 61/66: 2150 USB to Bamba point.contacting Lisbon control on 128.9(JP2) TWA 880: 0129 USB wkg NY pos rpt 42N 60W. USAir 12: 0142 USB wkg Gander Selcal ck BF-MP. Delta 106: 0038 USB wkg New York Selcal ck EQ-AH. REACH 1200 0043 USB wkg New York posn rpt 43N 50W Flt Level 310 & req for selcal ck. (KW2) Delta 14 0342 USB wkg Gander selcal, unreadable. Delta 108 0355 USB wkg Shanwick fl 350 45 N 13 W Remaining fuel 72.1 contact Madrid on 135.7 Delta 14 0342 USB wkg Gander selcal unreadable from this end. (LB2) New York: (NAT-A MWARA) 0226 USB wkg American 68 w/selcal ck JK-QS (767 N386AA) also REACH 4QS for radio ck; at 0231 wkg Air France 594 w/selcal ck KM-BF (747 F-BTDH). (RB) Shamrock 7495 0434 USB wkg Shanwick/receiving speed restrict. Air Europa 144 0443 USB JR-AG wkg SM/ARP 44N40W F390 767 EC-276. Frenchline 433 0444 USB BK-DJ wkg Shanwick/ARP 46N20W F330 QPR. Aeromexico 033 0529 USB BC-JS wkg NY/ARP GRATX F370 NANCE-RIGNY. AmTran 8010 0559 USB BH-CJ wkg Gander/ARP 47N40W F330. Transat 256 0601 USB HM-EG wkg NY/ARP 43N50W F330. Piarco Radio 0007 USB wkg the "Rude Lady" from NY req freqs for Santa Maria (!!) REACH 8V3 0008 USB wkg Gander/ARP 45N40W F370. Air France 594 0017 USB KM-BD wkg NY/Selcal check 74M F-BTDG. Air France 031 0122 USB EK-GJ wkg NY/ARP JAINS F330. TSO 7003 0125 USB wkg Shanwick/ARP 58N30W F330 Transaero. Hapag-Lloyd 656 0157 USB HL-AQ wkg Gander/ARP 4545N26W F350. Delta 82 0208 USB AH-EG wkg Gander/Selcal check. Iberia 6250 0220 USB DH-GM wkg Gander/Selcal check DC10 back on route. Springbok 202 0256 USB FM-AQ wkg SM/ARP 28N40W F310. Delta 108 0326 USB AH-CM wkg Shanwick/Selcal check. Swissair 111 0327 USB AG-EQ wkg Shanwick/ARP 53N30W F390. (TO)
5616 SAM 26000 1748 USB wkg Shanwick pos: 59N 20W 17:45 59N 30W 18:30 59N 40W Next (AD2) Gander OAC, CAN (MWARA NAT-B): 2335 USB m w/REACH 5037 (ANEU) Gander 0825 USB wkg American 92, selcal & posn check. (AW) Reach 05EV 2039 USB Shanwick 54n 15w 2032 fl280, 55n 20w 2053, 55n 30w (BH) Shanwick: 0318 USB Wkg NW38 w pos. rpt. Gander: 0318 USB Wkg USAIR 894 w pos. rpt. (DES) PAC603 2005 USB Selcal GKDF. UPS6571 2020 USB (HW) Northwest 44 0347 USB wkg Gander FL 310 57 N 50 W temp -7.4 Selcal GLFJ. Northwest 44 0347 USB wkg Gander FL 310 57 N 50 W temp -7.4 Selcal GLFJ (LB2) Transat 130 0049 USB FL-EG wkg Shanwick, ETA CDG 0325 and selcal check. Delta 146 0054 USB EQ-AH wkg Gander, Selcal check KATL-LOWW. REACH DQ1 0058 USB BL-GM wkg Shanwick/ARP 51N30W copy Emery Ops. Continental 36 0109 USB EF-AC wkg Gander/ARP 54N40W F330. Delta 124 0123 USB CK-DE wkg Gander/Selcal check. Canadian 86 0132 USB DL-FJ wkg Gander/Selcal check. COPPER 1 0152 USB wkg Gander/ARP 62N60W F370 .82. American 24 0154 USB EL-BM wkg Gander/Selcal check. Air Canada 878 0227 USB AK-GM wkg Gander/ARP F350 est 51N50W 0233. TWA 848 0638 USB JL-AM wkg Shanwick/Selcal check. Transat 106 2351 USB DS-AG wkg Gander/Selcal check 757 C-GTSE. (TO)
5637 TC-ATA: 1013 USB (Vip flight) w/Turkish prime minister on board overflying Athens FIR and greek air space, on its way to Florence, Italy, with diplomatic greetings message to Greek prime minister in contact w/Athens Radio. SX-OAB 1633 USB B-747 owned & operated by Olympic Airways requesting selcal check with Athinai Radio. Selcal CH-DK. SX-OAE (Olympic B-747) 1352 USB r/c Athens. SX-OAD (Olympic B-747) 0750 USB (CK)
5643 VH-SVV 0727 USB wkg Auckland radio Lord Howe Island to Sydney. QF-44

0728 USB wkg Brisbane radio Auckland to Sydney. QF-26 0729 USB wkg Nadi radio Honolulu to Sydney. FREEDOM-4111 0744 USB wkg Auckland radio Auckland to Sydney 737 The second new trans Tasman airline. Korean air-662 0747 USB wkg Auckland radio Auckland to seoul. Korean Air 662 0756 USB wkg Nadi/ARP F390. Solomons 711 0805 USB wkg Nadi, req from Nadi OCA. (TO)

5649 Shanwick OAC, IRL (MWARA NAT-C): 0030 USB w/UNID (ANEU) Ascot 2137 USB Gander (C-130, RAF) fl210 climbing 230 (BH) AFR238 1105 USB Selcal EHKP. AZA9192 2015 USB Selcal EJKL (HW) Speedbird 192: 0145 USB wkg Gander Selcal ck DF-HK. Lufthansa 403: 0147 USB wkg Gander posn rpt 48N 40W flt level 33K ft. Lufthansa 419: 0148 USB wkg Gander posn rprt 48N 40W flt level 35K ft. Speedbird 6746: 0150 USB wkg Gander answered selcal has same selcal BGEU as another a/c in same area. Speedbird 174: 0245 USB wkg Gander posn rpt 52N 40W. MartinAir 766: 0246 USB wkg Gander posn rpt 49N 49W. Singapore 25: 0249 USB wkg Gander SELCAL ck FM-DE. (KW2) Scandanavian 908 0401 USB FL 350 approved (LB2) SWR104 2013 USB Swk/55N10W 2012 F330 55N20W sel/BJEQ HBIPN A310. BAW4 2013 USB SWK/SN20W 2012 F565 climbing SN/15W 2022.To 135.6. RRR5973 2015 USB Swk/sel-check/AJCG XV197 C130. RRR5971 2017 USB Swk,Gan/Rx.Thunderstorm warning in area 50N/18W selcal/AHGJ XV176 C130. AFR040 2018 USB Swk/55N/20W 2017 F350 56N/30W 2100 56N/40W. (RD3) Lufthansa 451 0407 USB AL-EG wkg Gander/Selcal check. Iceair 642 0408 USB FQ-AG wkg Gander/ARP 56N50W F350 13.7 fuel. Aeroflot 330 0410 USB GR-HM wkg Gander/Selcal check. Virgin 016 0410 USB HR-PQ wkg Gander/ARP 53N40W F370. Singapore 25 0411 USB EQ-BR wkg Gander/ARP 51N50W F390 .86. New Zealand 2 0413 USB CP-GL wkg Gander/ARP 60N60W F330 req F370. Air Europa 905 0415 USB wkg Shanwick/ARP 51N20W F330. Air France 055 0420 USB EJ-AL wkg Shanwick/ARP 52N30W F370. Finnair 108 0428 USB wkg Gander/ARP 60N40W F330 34.6 fuel. Austrian 504 0448 USB BM-HK wkg Gander/Selcal check. Speedbird 116 0450 USB BE-KL wkg Gander/Selcal check. El Al 001 0451 USB AG-FK wkg Gander/ARP 48N30W F310 .83. Lauda 6869 0457 USB BL-JP wkg Shanwick/ARP 53N30W F330. KLM 602 0500 USB DK-BL wkg Gander/ARP 59N60W F350. Alitalia 639 0502 USB LR-JP wkg Shanwick/ARP 54N30W F350 767 G-OITF. Virgin 020 0511 USB BK-FM wkg Gander/ARP 60N60W F370. Air France 063 0515 USB DG-CM wkg Gander/ARP 59N60W F350. KLM 618 0516 USB DK-AJ wkg Gander/ARP SCROD F330. Lufthansa 459 0532 USB LM-DR wkg Gander/Selcal check. KLM 644 0540 USB DK-BM wkg Gander/Selcal check. Speedbird 236 0541 USB BD-CK wkg Shanwick/ARP 53N30W F350. Scandinavian 914 0542 USB BF-DL wkg Gander/Selcal check req. F370. Virgin 010 0548 USB BH-JL wkg Gander/Selcal check. Swissair 135 0006 USB AF-PQ wkg Gander/ARP 52N40W F370 and selcal check. Air France 003 0011 USB EK-FH wkg Gander/ARP 50N50W F330 req F370. Scandinavian 942 0013 USB EJ-DH wkg Gander/ARP SCROD F350. Air Europa 118 0015 USB LQ-EK wkg Gander/ARP 49N40W F370 and wx. Martinair 64 0024 USB BP-ES wkg Shanwick/ARP 54N30W F350. Martinair 632 0025 USB CQ-BH wkg Gander/Selcal check 767-300ER PH-MCG. Tourjet 023 0038 USB MQ-AF wkg Gander/ARP 49N30W F310 copy SPP Ops. Lufthansa 431 0107 USB FM-EL wkg Gander/Selcal check 747 D-ABYP. Lufthansa 401 0128 USB CP-BR wkg Shanwick/ARP 54N30W F350. Air France 045 0129 USB JK-BP wkg Shanwick/ARP 53N30W F350. German AF 141 0133 USB CK-AD wkg Gander/Selcal check. Speedbird 224 0145 USB DH-FJ wkg Gander/Selcal check. KLM 612 0149 USB BK-GJ wkg Shanwick/ARP 55N30W F350. Lufthansa 8188 0150 USB CG-AK wkg Gander/ARP 61N30W F310 req F330. Hapag-Lloyd 632 0155 USB HL-BQ wkg Shanwick/Selcal check A310 D-AHLB. Austrian 516 0200 USB BM-JK wkg Gander/Selcal check A310 OE-LAB IAD-GVA. Speedbird 214 0200 USB BG-KQ wkg Gander/Selcal check. Liberte 991 0205 USB FQ-BE wkg Shanwick/ARP 52N30W F390. Speedbird 226 0206 USB DH-CL wkg Shanwick/ARP 54N30W F350. Martinair 830 0210 USB KL-AB wkg Gander/Selcal check. Speedbird 6746 0223 USB BD-CH wkg Gander/Selcal check. Scandinavian 904 0224 USB BF-CG wkg Gander/ARP 57N50W F350. Shamrock 132 0227 USB JS-AP wkg Gander/Selcal check A330 EI-JFK. Speedbird 186 0230 USB EL-BQ wkg Shanwick/Selcal check. Air France 023 0233 USB BM-JR wkg Gander/ARP 52N50W F370. Swissair 121 0245 USB DE-GL wkg Gander/Selcal check. Saudia 7899 0249 USB EF-CJ wkg Gander/ARP DOTTY F370 52N50W 0307. KLM 692 0251 USB DK-AJ wkg Shanwick/ARP 56N30W F350. Lufthansa 405 0613 USB LM-HS wkg Shanwick/ARP 52N30W F370. KLM 602 0617 USB EH-BC wkg Gander/ARP 55N40W F390 LAX-AMS. Air India 112 0619 USB JL-CG wkg

Shanwick/ARP 54N30W F390. Speedbird 282 0635 USB BR-AF wkg Gander/ARP 59N60W F370 747-400 G-BNLX. Speedbird 116 0636 USB BE-KM wkg Shanwick, ARP 53N30W F370. Lufthansa 8160 0709 USB FH-CE wkg Gander/ARP 49N30W F280 fuel 83.2. Speedbird 286 0714 USB BG-KQ wkg Gander/ARP 59N60W F370 747-400 G-CIVF. Saudia 905 0717 USB AJ-GM wkg Gander/ARP 51N30W F310 ETA Gander 0936. Egyptair 989 0721 USB BQ-CJ wkg Gander/ARP 45N40W F310 .80. Saudia 3035 0742 USB EF-CJ wkg Gander/ARP 47N30W F370 fuel 56.9. El Al 008 0748 USB BE-AM wkg Gander/Selcal check. Iberia 6400 0903 USB EK-CJ wkg Gander/Selcal check. El Al 106 0322 USB HM-CK wkg Shanwick/ARP 60N30W F350 747-400 4X-ELC. Speedbird 176 0325 USB FP-GR wkg Gander/Selcal check 747-400 G-CIVE. Shamrock 122 0349 USB DP-CR wkg Shanwick/ARP 55N30W F370. Lufthansa 405 0410 USB LM-HR wkg Gander/Selcal check. Speedbird 284 0412 USB BG-KQ wkg Gander/ARP 62N60W F370. Martinair 638 0420 USB FG-BC wkg Gander/Selcal check. Lufthansa 451 0425 USB FH-JM wkg Gander/ARP MOATT F370. EWE 592 0426 USB BM-FR wkg Gander/ARP 59N30W F370/757 XA-KWK of TAESA leased by East West European. Any updated info on this a/c would be appreciated here. Jordanian 262 0432 USB DG-AL wkg Gander/Selcal check. Malev 091 0432 USB CP-DS wkg Shanwick/ARP 53N30W F350. Shamrock 124 0440 USB DJ-GR wkg Gander, Selcal check. Lufthansa 437 0442 USB LM-GR wkg Gander/Selcal check. Singapore 25 0450 USB AL-GH wkg Gander/ARP 54N40W F370 ETA FRA 0810. El Al 841 0454 USB BE-AG wkg Gander/ARP 49N30W F310 747F 4X-AXK. Air France 081 0453 USB BM-JR wkg Gander/Selcal check A340 F-GLZC. Speedbird 296 0505 USB BG-DE wkg Gander/ARP ORD-LHR 53N40W F370. (TO)
5652 SBZ 003 0131 USB wkg Niamey/ARP to BRU F330. (TO)
5656 Bombay FIC, IND (MWARA MID): 2355 USB w/UNID (ANEU)
5658 Cairo ACC, EGY (MWARA AFI): 0040 USB w/UNID. Tripoli FIC, LBY (MWARA AFI): 2350 USB clg by LH573, no resp. & 2355z clg by ???-285, also no answer (ANEU) Khartoum: 0328 USB Wkg MD6181 afct barely audible. Cairo: 2102 USB Wkg Sabena 561 QSY to 11300 Cairo clng svl times w/no joy on 11300 back to 5658. Lufthansa 8794: 2108 USB Clg Khartoum wkg Cairo w pos. rpt. Asmara: 2138 USB Wkg Cairo rely info for AF445. Bombay: 2139 USB Wkg Unid flight 381 w pos. rpt. Cairo: 2141 USB Wkg Kenya 102. Bombay: 0021 USB Wkg Airbird 357 w pos. rpt. Tripoli: 0025 USB Wkg Lufthansa 561 pos. rpt. Tripoli seriously over modulated & causing severe QRM when keyed up. Lahore: 1802 USB Wkg afct 288. (Almost impossible to ID airline names on 5658 for me due to constant jumble here). Singapore 64359: 1805 USB clg Karachi, Karachi not heard. Lahore: 1806 USB Wkg either 5971 or 9071 (couldn't quite make out)w/posnrpt. Then a/c 276 w pos. rpt. Bombay: 0011 USB Wkg ?051 w pos. rpt. SELCAL ER-BG. (DES) TOW03: 1740 USB wkg Cairo London LHR to Mombasa FL370 B747. AIC200: 1800 USB wkg Addis FL370. IYE6222: 1800 USB wkg Asmara FL350. KQA310: 1800 Addis FL370. UAE418: 1815 USB wkg Addis A-310 Nairobi to Dubai. LPU5771: 1815 USB wkg Addis FL350 B-737 Mombasa to Luxor. MEA664: 1850 USB wkg Cairo B747 Beiruth to Abidjan. AZA768: 1910 USB wkg Bombay Rome to Bombay Selcal FKEG. GFA148: 1915 USB wkg Bombay radio check. SVA989: 1915 USB wkg Bombay Colombo to Riyadh Selcal CMHJ. SVA866: 1915 USB wkg Karachi Nothing heard. MAU062: 1920 USB wkg Cairo Seychelles to London LGW B747 FL280. AFR445: 1920 USB wkg Cairo B747 from Reunion to Paris ORY. MAU022:: 1920 USB wkg Cairo A-340 from Reunion to Munich. AOM754: 1920 USB wkg Cairo DC-10 from Reunion to Marseille. MAU26: 1920 USB wkg Cairo A-340 form Mauritius to Paris CDG. AIC700: 1920 USB wkg Bombay MAROB. SUD229: 1920 USB wkg Jeddah From Jeddah to Khartoum Pos. is ME. KLM838: 1950 USB wkg Mogadishu selcal DMAJ. ATT407: 1950 USB wkg Karachi Unreadable. DSR402: 2000 USB wkg Khartoum Unreadable. SIA428: 2025 USB wkg Bombay selcal JMFK. DLH783: 2025 USB wkg Delhi No contact. BAW68: 2025 USB wkg Khartoum FL310 Khartoum/2150. DAL107: 2025 USB wkg Bombay Nothing heard. UAF312: 1754: USB wkg Mogadishu, Nairobi To Dubai, FL230, Mogadishu/1848. TOW616: 1755 USB wkg Bombay Caglu/1750 selcal GJ-DE. CPA260: 1755 USB wkg Karachi No contact. DAL106: 1755 USB wkg Bombay FL330 to Bombay. DLH588: 1800 USB wkg Cairo, A340, Cairo-Khartoum SML/1842. RJA022: 1800 USB wkg Bombay FL370 Bombay/1946 to 125.9. TOW03: 1800 USB wkg Khartoum, Mombasa to Paris CDG. AFR445: 1810 USB wkg Nairobi, Reunion to Paris ORY B747 EJ-BL. AOM702: 1810 USB wkg Nairobi, Reunion to Paris ORY selcal CG-DM. SEY08: 1810 USB wkg Seychelles/Nairobi B-767, Seychelles to

Paris CDG (CE-BL). KLM501: 1810 USB wkg Bombay FL330. AHK002: 1820 USB wkg Bombay FL290 selcal EHAG. AIC892: 1830 USB wkg Cairo Nubar THG933: 1830 USB wkg Kabul No contact. BAW11: 1830 USB wkg Karachi Nothing heard. RBA97: 1830 USB wkg Bombay, FL350 Marob selcal EG-HR AZA903: 1835 USB wkg Bombay No contact. MZA1521: 1900 USB wkg Khartoum On the ground at Sofia, req.Khartoum wx. SWR167: 1905 USB wkg Delhi JJP/1952 to 120.9. KLM887: 1915 USB wkg Bombay, Amsterdam Hong Kong. DLH8795: 1925 USB wkg Nairobi, Nairobi to Cairo B747 ANTAX/2006. DLH8497: 1925 USB wkg Bombay selcal CDJL. ALK582: 1935 USB wkg Bombay, FL350 Kaglu. ELY085: 1935 USB wkg Cairo Nothing heard. KLM838: 1935 USB wkg Bombay Tiger/1935 FL310 SUR/n selcal BQEJ. UAE701: 1950 USB wkg Bombay FL350. AFR041: 1950 USB wkg Khartoum Nothing heard. KLM878: 1955 USB wkg Delhi To 3467 Lahore. AIC403: 2000 USB wkg Bombay Nothing heard. KLM564: 2000 USB wkg Nairobi, Nairobi to Amsterdam MD-11 FL310. BAW88: 2000 USB wkg Nairobi, Nairobi to London LGW FL310. QFA9: 2205 USB wkg Karachi FL350 selcal HJ-FP. UAE556: USB wkg Sanaa FL310 LOBAR/2033. KLM887: USB wkg Burundi(!)Climbing out of 10.600 feet. MKA351: USB wkg Sanaa FL330 Registration 9G-MKE. DLH8933: USB wkg Karachi Clg Karachi. MAU080: USB wkg Addis Abba, req. Mogadishu info abt. this flt. KLM838: USB wkg Bombay BQEJ FL350 SUR/2050. CPA261: USB wkg Karachi No contact. PAL734: USB wkg Bombay FL350 Muscat/2024. KLM568: USB wkg Khartoum AFHR Selcalcheck. CAL061: USB wkg Bombay MCT/2015 FL370. CPA289: USB wkg Lahore No contact. BAW68: USB wkg Nairobi From Nairobi to London LGW ANTAX/2036. JAK5031: USB wkg Kabul(!)From Alma Ata to Karachi NO/2030 FN/2058. AFR445: USB wkg Mogadishu MO/2005 FL310 MG/2023. LIB195: USB wkg Addis From Reunion to Paris ORY DC10 QFA2: USB wkg Bombay Pos. report. Unreadable. DLH709: USB wkg Karachi FL390. THG942: USB wkg Bombay GKDL FL310 BBB/2054. QFA9: USB wkg Bombay HJLP FL280. DLH773: USB wkg Bombay Nothing heard. Reception very weak. AHK1: USB wkg Bombay FL350 MAROB/2106. SAB501: USB wkg Addis, From Nairobi to Brussels FL280 DC10. AFR479: USB wkg Addis, From Johannesburg to Paris CDG B747. KLM874: USB wkg Bombay DKBG Pos. report unreadable. BAW138: USB wkg Bombay BGMS Only selcalcheck. SWR195: USB wkg Kabul FL310. SIA334: USB wkg Bombay Calling several times, no contact. EVA61: USB wkg Karachi CEGS FL350. BAW144: USB wkg Karachi AMGK FL280 Bravo/2110. MAU057: USB wkg Khartoum A-340, London LHR to Mauritius FL330 Aleba/2153. AZA777: USB wkg Karachi FKEM FL310 Pos. report unreadable. DLH709: USB wkg Karachi ZAH/2148. PIA 716: USB wkg Lahore FL330 to 350 KN. THG935: USB wkg Karachi DPJR to 128.3 VHF. RCH2571: USB wkg Bombay SEBLO FL370 to 3470 Madras(2053). SWR174: USB wkg Bombay to FL370. LDA18: USB wkg Delhi FL310. KLM887: USB wkg Bombay No contact. AZA768: USB wkg Bombay MAROB FL330. QFA2: USB wkg Kabul No contact. AIC188: USB wkg Delhi Dest. Delhi. GTY252: USB wkg Cairo Calling Cairo several times No contact. SWR187: USB wkg Bombay FL280. NGA9803: USB wkg Cairo Calling Khartoum. To 11300. MAS26: USB wkg Bombay EPGM BISET/2027 FL390. PIA763: USB wkg Karachi DKEG Karachi FIR/2024. KLM561: USB wkg Cairo B767 Cairo Khartoum FL370 SML/2034. SUD109: USB wkg Cairo A300 from OSDI to Khartoum FL330. AFR491: USB wkg Mogadishu FL280. PAL740: USB wkg Bombay Marob/2042 FL350. DLH8940: USB wkg Sanaa DC-8 from Jeddah to Sanaa FL350. QFA9: USB wkg Lahore selcal check. BAW10: USB wkg Kabul No contact. KLM566: USB wkg Khartoum, No contact. BAW34: USB wkg Bombay SUR. AIC411: USB wkg Delhi FL280. KLM992: USB wkg Bombay KIBT/2038. MAS26: USB wkg Bombay giveg/2027. BAW12: USB wkg Bombay BPCM FL350 BISET/2120. KLM844: USB wkg Bombay BBM. MAU42: USB wkg Khartoum Nothing heard. CPA289: USB wkg Kabul Nothing heard. BBC030: USB wkg wkg Karachi, Marob Bilat Sumos. DLH8455: USB wkg Bombay BLAF Sugid Marob FL350. OAL474: USB wkg Bombay, DLBE, Sugid Marob. SIA404: USB wkg Bombay DQBR Biset Kibit SUR From Singapore to Dhahran. KAC500: USB wkg Bombay Bilat. MAS31: USB wkg Bombay to 125.9 Bombay VHF. SWR193: USB wkg Bombay Sugid Marob. IYE689: USB wkg Addis B737 FL310 AOM702: USB wkg Mogadishu FL280 Mogadishu/2103. SIA26: USB wkg Bombay BPHR Biset Kibit SUR. KAC281: USB wkg Bombay DRFL Marob Bilat. GFA054: USB wkg Bombay Marob Bilat. DLH581: USB wkg Cairo A-310 from Nairobi to Frankfurt ANTAX/2133. DLH779: USB wkg Bombay, No contact. KAC301: USB wkg Bombay CFJP From Kuwait to Bombay Marob/2223. AZW733: USB wkg Cairo B767 from Larnaca to Harare SML/2148. CRL910: USB wkg

Cairo B747 from Paris ORY to Reunion. SUD103: USB wkg Cairo A-320 from Cairo to Khartoum FL330 SML/2141. MAU050: USB wkg Nairobi B757 from Mauritius to Zurich. SIA333: USB wkg Bombay FMBE selcalcheck. MAS27: USB wkg Bombay EPGM FL330 KIBIT/1907 BISET. DLH8941: USB wkg Mogadishu No contact. MSR798: USB wkg Cairo No contact. SIA442: USB wkg Bombay AHGJ BISET KIBIT SUR. AFR173: USB wkg Delhi KKJ/1858 FL310 JJP/1930 TIGER. AFR6787: USB wkg : USB wkg Bombay DUBOX FL350 AAU/1931. AIC732: USB wkg Bombay JJ/19 FL330 PG/1946 ADC to 128.3 VHF Karachi. BAW12: USB wkg Bombay BBM/1926 FL280 ERVIS/next. SWR183: USB wkg Delhi AFLQ KKJ/26 FL310 JJP/56 Tiger/2022 RK/2035. CFG317: USB wkg Addis Seychelles to Frankfurt B767 FL350. MAU750: USB wkg Bombay To 3467 Bombay. On 5658 unreadable. SVA865: USB wkg Bombay MAROB FL350 to Muscat control. KLM838: USB wkg Bombay KLJP FL350 BISET KIBIT SUR. AFR157: USB wkg Bombay EHKP BISET FL310 KIBIT SUR GIA992: USB wkg Bombay BDKM FL350 PB. LDA8: USB wkg Bombay Nothing heard. SIA328: USB wkg Bombay Singapore to Amsterdam FL310 KAGLU. AFR179: USB wkg Bombay JLEM MAROB. DLH8425: USB wkg Karachi, CGAK, Rover/1947 FL310 Gasir/1954 Sokir ZAH/2029. AIC216: USB wkg Bombay No contact. DLH745: USB wkg Delhi BLAE FL350 KKJ/00 JJP/2030 Tiger/2055. AFR491: USB wkg Addis B747 Seychelles to Paris CDG FL280 AFR445: USB wkg Addis B747 Reunion to Paris ORY FL310. AOM702: USB wkg Addis DC10 FL310 Reunion to Paris ORY. MAU053: USB wkg Cairo London LHR to Mauritius A-340 FL330 Aleba/2143. MAU071: USB wkg Cairo Zurich to Mauritius FL370 Aleba/2120 (HW) SWR292 2255 USB Ktm, Cairo/ORNAT 2254 F330 ALVOR 2328. ELY512 2255 USB Addis/Nbo-RUDOL 2252 F330 SHALA 2316 ADS 2318. KLM569 2256 USB Ktm/EPSIX 2254 F350 AVONO 2315. SAB563 2259 USB Ktm/Cairo/ALVOR 2259 climbing F310 ORNAT 2338. AFR491 2302 USB Ktm,Cairo/ME 2301 F350 UMINI 2317 LXR 2335. ELY088 2317 USB Cairo/DEDLI 2317 F360 ! SKH 0005 TOPLA next From Bombay to Tel Aviv sel/KLBD 4XAXB B747 (RD3)

5658 AFR445 2223 USB Ktm,Cairo/TOKAR 2222 F350 ME 2233 ALEBA 2254 UMINI. (RD3)

5667 Bahrain ACC, BHR (MWARA MID): 2345 USB w/UNID (ANEU)

6535 Dakar Radio: SEN, SAT-1 MWARA 0331 USB wkg Air Afrique 9972 w/posn, selcal. (RB) GFA990 2342 USB Canarias/ROYAL 2340 DAKHLA 2349 F350. (RD3) VASP 774 0248 USB DL-CF wkg Canarias/ARP GADUN 0244 F370 PLATY GDV. Ghana 130 0308 USB JL-CH wkg Dakar/ARP F310 ACC-JFK est TITOR 0329. (TO)

6577 New York: 0027 USB Wkg West Indian 791 w pos. rpt. Also SELCAL ck w unid flight (SELCAL DE-KL). (DES) TOWER 50: 0048 USB wkg New York selcal ck CM-GK.(KW2)

6586 Speedbird 236: 0124 USB wkg New York SELCAL Ck BD-FL. (KW2) BAW74 2312 USB Accra/DENOR 2311 F310 Niamey 2329 In contact w/Niamey on VHF. (RD3) Delta 9268 2113 USB EM-DJ wkg NY/ARP Grand Inagua F280. On this day Miami CTR long range VHF had been knocked out by a storm & NY was relaying reports usually carried on VHF. Balair 181 2116 USB BJ-DQ wkg NY/ARP CATCH F290 A310 HB-IPM. American 1292 2119 USB BP-FL wkg NY/ARP JOSES F200 ZIN 2125 req F350. American 676 2122 USB wkg NY/ARP ZIN 2121 F260 DUNNO-ZBV. American 436 2125 USB CR-FS wkg NY/ARP ALBEE F290 ZIN-DUNNO. American 1215 2155 USB AM-BQ wkg NY/ARP ZIN F280. (TO)

6604 New York radio 1043 USB w/Volmet wx bx for the area (AW)

6622 REACH45R4 1405 USB (HW)

6628 Reach 6012 2055 USB wkg Santa Maria, gonti (??? spelling very unsure) 2052 fl350, 40n 20w 2124, 42n 30w. Envil 03 2107 USB Santa Maria (C-130?) Mike 2150 fl230, FLO (Flores) 2110, GRA (Graciosa). Envil 03 2112 USB FLO 2110 fl230, GRA 2136, Lajes (destination) -> 132.15 (Santa Maria). AME 62M 2121 USB Santa Maria (C-130? Spanish Air Force) gunzi (??? spelling unsure, could even be the same as the "gonti" above) 2119 fl220, 39n 20w 2208, Bravo. Reach 2578 2156 USB Santa Maria clearance to Dover: gumpi (see the above logs) - 39n 20w - 40n 30w - 39n 40w - 39n 50w - 39n 60w - slatn fl280 mach .77 (BH) Santa Maria: 2012 USB Wkg UNID flight w/posn. Canarias: 2014 USB Clg Sta. Maria. SM requests standby (DES) American 68 0331 USB wkg Ny w/posn & selcal check..HQRS change to Gander 4430 N on 3016 or 5598. Air France 0334 USB wkg NY told to copy Santa Marie at 23 N. KLM 757 0335 USB Wkg NY 31 N 50 W FL 310 req FL 350 at 23N 60W. American 68 0331 USB wkg Ny w/posn & selcal check..HQRS change to Gander 4430 N

on 3016 or 5598. 334 UTC Air France 0334 USB wkg NY, told to copy Santa Marie at 23 N. 335 UTC KLM 757 0335 USB wkg NY 31 N 50 W FL 310 req FL 350 at 23N 60W (LB2) Santa Maria: AZR, (NAT-E) MWARA 0327 USB wkg World flt 951(9?) reporting level 310, posrep 42N/20W 0324, HYDRA next, selcal ck; at 0336 wkg NAVY JV070 w/0333 posrep, FL 290, est LIS 0408, CCS next, contact Lisbon control on 128.9 VHF. New York: (NAT-E) MWARA 0329 USB wkg West India 900 w/posrep, 17N/55W 0326 FL 330, est 21N/50W 0407, 25N/43N next, selcal ck HM-FK (L1011 N3140D). (RB) Speedbird 162 0221 USB DH-CJ wkg NY/QSY from 5598 selcal check. (TO)

6637 Miami: Connie Op's LDOC, 0206 USB Miami, FL wkg flt 312 w/arrival, departure msg. (RB) Connie 811 0328 USB CK-DG wkg Miami LDOC/pos. 50 mis. N of Key Largo for selcal check. (TO)

6676 VLS: Sydney VOLMET 0800 USB with wx. (DW2)

6679 Auckland radio 1020 USB w/Volmet wx bx for the area (AW)

6826 Stockholm :1910 USB Wkg Cypriot(?) 825. No response. Tried SELCAL w/no joy.(DES)

8825 New York 0028 USB Wkg Speedbird 166 pos. rpt. Selcal DHCJ. (DES)

8828 Hong Kong Volmet 1016 USB YL/EE passing airfield wx conditions. (DW2)

8831 HZ-HE4 1522 USB Shanwick (B-727) 50n 20w 1520 fl330, 49n 15w 1542, GUNSO, req route after GUNSO: UN491 to TAKAS. -> 135.6. NAF 49 1527 USB Gander (KDC-10) 52n 30w 1521 fl330, 52n 20w 1603, 52n 15w, selcal CGHL (BH) Canadian 90(8): 1110 USB wkg Gander Selcal ck DL-GH. Air Jamica 001: 1112 USB wkg Gander Selcal ck KS-DP.(KW2)

8846 N917W 1702 USB BG-PS wkg NY/ARP PRUITT 1700 F430 req block F430/450. Big A 308 1735 USB wkg NY/ARP GRANN F390. Air Canada 947 1743 USB FQ-DE wkg NY/ARP TARGA F390. Navy RE790 1729 USB wkg New York Radio reporting at posn 3154N79W & operational for 4 hrs. then returning to Navy Brunswick. At 1736 wkg NY w/revised ETA KATHY-1746. (TO)

8861 Khabarovsk Volmet 0947 USB YL/RR passing airfield wx conditions.(DW2) Liberte 810 2217 USB FL-KQ wkg Dakar/Selcal check from Dakar-Yoff. Air France 6813 2346 USB EJ-AK wkg Recife/ARP F370. (TO)

8864 IFB 52 1959 USB wkg Gander/cleared to F390. (TO)

8867 Pacific Express-3518 0702 USB Wkg Brisbane. Solomon-701. 0703 USB Wkg Brisbane. (IB) Cotak-030 0329 USB To Brisbane radio, french navy. Air Nauru-321 0433 USB wkg Brisbane radio Honiara to Melbourne CSFJ C2-RN10 737. QF-100 0432 USB wkg Brisbane radio LAX-AUCK-MEL. Ansett-870 0435 USB wkg Auckland radio Norfolk island to Sydney. Air Cal-511 0437 USB wkg Brisbane radio. NZ-89 0452 USB wkg Brisbane radio Auckland to Taipai. Singapore-286 0452 USB wkg Brisbane radio Auckland to Singapore. QF-36 0503 USB wkg Brisbane radio Christchurch to Melbourne. NZ-151 0524 USB wkg Brisbane radio Wellington to Melbourne. Pacific-913 0526 USB wkg Brisbane radio BGAD ZK-NZY 747.200. VH-AUG 0527 USB wkg Brisbane radio To Lord Howe island. QF-48 0527 USB wkg Brisbane radio Wellington to Sydney HJEP VH-OGD 767.300. NZ-105 0532 USB wkg Brisbane radio Auckland to Sydney. COTAK-33 0533 USB wkg Auckland radio KIWI International. 737 one of the new trans Tasman airlines. NZ-58 0537 USB wkg Nadi radio Auckland to Honolulu. QF-91 0540 USB wkg Brisbane radio Sydney to Noumea. United-862 USB 0538 USB wkg Nadi radio. Qantas 26 0643 USB EG-FK wkg Nadi/ARP F350 posns copied but exact spellings are unavailable. (TO)

8879 Jordanian 265 1956 USB FJ-AG wkg Gander/ARP 61N30W F330. (TO)

8882 Bail FIS 0821 USB, unable to id flight, this freq is in Indonesia.

8891 Iceland: 1811 USB Wkg Scandanavian 913 w pos. rpt. BC-FL SELCAL. (DES) United 960 0314 USB CE-QS wkg Iceland/ARP D70 0313 F350 69N60W 0342. (TO)

8894 5B-DAZ Avistar B707 1926 USB Wkg Niamey. (IB) NGA9903 2333 USB Algiers/ ARP BD 2332 F290 climbing F330. AZA836 2338 USB Algiers/ Req. selcal chk FKDJ I-DUPA MD11 (RD3) Seychelles 015 0014 USB wkg Algiers/ARP est ENDOK 0133. Speedbird 56 0119 USB BP-AK wkg Algiers, ARP IKTAV est 0126 F350. Sabena 550 0148 USB wkg Algiers/ARP JNB-BRU INISA 46 F350. (TO)

8903 CTM 2996 1900 USB Brazzaville (An-124, UR82009, Antonov Design Bureau) dep Bangui 1842 climbing fl350, ekim 1909, sulby 1955, eta Libreville 2020, registration UR82009, a/c type AN124. CTM 2996 1903 USB ekim 1909 fl350, tunib 1936, olte (same as sulby?). CTM 1162 1917 USB Brazzaville (DC-8, F-RAFC) in FF (Cotam onze-soixante-deux) dep

Bangui 1908 eta Ndjamena 2025 fl390, registration FRAFC, selcal JKFH (BH) AUA532 2307 USB Ndjamena/ARP KOBLA 2307 F350 FLU 2340. SAA265 2308 USB Ndjamena/ARP INISA 2307 F370 DELIS 2325 ENBUT 2340. AFJ002 2311 USB Brazza'/Entebbe to EGLL ETA 0511,ONUDA 2310 KITRA 2324 F390. ERESA 2344 UG862F ETSAM 2355 a/c B747SP ZSSPA. SAA222 2315 USB Brazza'/ARP BT 2314 F350 UMOSA next. SAA238 2317 USB Brazza'/ARP BT 2331 F350 UMOSA 2335. AFR427 2320 USB Kano/Called several times ARP. JS 2359 F390 KA next. KLM594 2322 USB Ndjamena/ ARP DIR 2320 F390 ENDOK 2338. DLH569 2330 USB Ndjamena/ARP KOBLA 2329 F350 FLU. (RD3) KLM 597 0019 USB EH-BK wkg Brazza/ARP TJN 0009 F330 MOTET 0024. Springbok 233 0043 USB AB-JL wkg Niamey/Selcal check listed as 747-400 enrt LHR-JNB, no listing for code. KLM 594 2145 USB wkg NDJ/ARP MEKAL F350 reg. PH-BFL 747-400. Nigeria 9907 2148 USB wkg Brazza/ARP APERO F370 NN next. Springbok 250 2150 USB wkg Brazza/hrd reg. ZS-SAN thru intense QRM. Alitalia 837 2219 USB wkg Brazza/reg. I-DUPU MD11 next call RULDO. Air France 7085 2221 USB CP-HQ wkg Brazza/ARP TIVAL 20 F310 MIKMA 49. Speedbird 52 2226 USB wkg Kin/ARP SOLPA F310 SEVIT 2229 MPK 2246. Lufthansa 569 2230 USB BF-KQ wkg Brazza/ARP MERON F350. Swissair 273 2302 USB AF-LQ wkg Brazza/Selcal check heavy QRM de SA250. Swissair 284 2303 USB AF-MQ wkg NDJ/Selcal check. Springbok 267 2309 USB wkg NDJ/MUC-JNB F370 INISA 07 DELIS 24. Sabena 569 2310 USB wkg NDJ/ARP BE 2305 F310 ILDOR 2338 FL next. Zimbabwe 727 2319 USB EF-CJ wkg Kin/ARP w/estimates for o/h LUB 0209. Swissair 287 2321 USB wkg NDJ/requested KOBLA est and a/c type MD11. Springbok 261 2323 USB wkg NDJ/ARP F370 INISA 2334 DELIS 2352. Springbok 233 2330 USB AB-JL wkg NDJ/ARP INISA 22 F330 LHR-JNB. Sabena 550 2331 USB wkg Brazza/ARP TIVOL F350. EZR 371 0330 USB wkg N'djamena/ARP F370 BUNLU DIR next: a/c of Zaire Express, when he gave the reg out it was obscured by a giant static crash! Aeroflot 461 0334 USB wkg Niamey, ARP in w/local quality signals: enrt Malta-Lome F330 AMPOL 0351 PITRI 0408 MONIR 0437 reg. RA-86523 IL-62M. (TO)

8906 CTM 1024 2141 USB Santa Maria (FAF) fl370 climbing 370, no joy on 5598. Reach 9411 2151 USB New York revised eta 40n 60w 2217 (BH) N220A: 1051 USB wkg Gander Posn rpt 45N 34W flt level 330 and selcal ck AK-LS.(KW2) New York: (NAT-A MWARA) 0238 USB wkg MartinAir 644 w/posn, 40N/60W 0238 FL 330, est 40N/50W 0321; at 0250 CCA 900 w/posn, selcal FL-BE (B2454, 747); at 0323 wkg Cherokee 3 for rdo ck; at 0332 wkg REACH 1100 w/posn, selcal BD-JL (Rich Int'l chartered DC-8 N4936C). (RB) AmTran 8729 2100 USB FK-BE wkg NY/Selcal check. Delta 38 2101 USB CK-BL wkg NY/Selcal check. Sobelair 1879 2144 USB CF-ES wkg NY/ARP 40N40W F350. Sunwing 9908 2153 USB EG-BR wkg NY/Selcal check. United 924 2212 USB JP-DL wkg NY/Selcal check from ramp at IAD. United 920 2247 USB AQ-BG wkg NY/selcal check req'd YANKEE 91 2003 USB wkg NY: est 39N40W @ 2136. (TO)

8918 New York: (CAR-A MWARA) 0217 USB wkg Iberia 6170 w/posrep, 42N/50W 0213 FL 280, est 43N/40W 0303, 42N/30W next, climbing 280 to 330; at 0218 w/Air France 594, 45N/30W, est 47N/30W, FL 330 mach .84; at 0221wkg Air Portugal 315 reporting level at 370. (RB)

8921 Ansett 972: 0039 USB clg SpeedBird London no joy. Shamrock 106: 0127 USB wkg Speedbird London SELCAL ck CK-EH. Perth Radio: 1130 USB wkg Qantas 69 (not heard) passed msg to Sydney control regarding medical assistance upon landing. Qantas Control: 1134 USB clg Qantas 69 no joy. (KW2) Speedbird London (British Airways) 0343 USB wkg Speedbird 106 w/pp to company op's. (RB) BAW128 2307 USB Speedbird LHR/o/h Saudi Arabia,dep.OEDR 2238 ETA EGLL 0530 Request selcal chk AGHL GBNWX B767 (RD3)

8930 Delta 133 1012 USB Stockholm (B767, N172DN) selcal EQAC. Amtran 503 1015 USB Stockholm (Tristar N189AT) N189AT dep ETAF (Rhein Main) 0950/04 eta CYQX (Gander)1553, fuel on take off 134.2, fuel uplift 17370 US gallons, 280 pax, delay code 81 10 minutes, 0 fuel weight 291.2, selcal BJHK. All Nippon 201 1018 USB Stockholm UHT 1015 fl 11600 meters, eta London Heathrow 1450 fuel remaining 125.0. Delta 15 1021 USB Stockholm (MD-11, N804DE) over Brussels, selcal EQBD. Liberty VE 1034 USB Stockholm nothing heard. Delta 61 1039 USB Stockholm (Tristar, N751DA). Delta 109 1044 USB Stockholm (Tristar, N740DA) selcal AHCM. Air France 054 1045 USB Stockholm (B747, F-BPVS) selcal EJAL. United 941 1046 USB Stockholm (BH) Stockholm LDOC: (EU-LDOC) 0159 USB wkg unid flt w/selcal ck BH-C...U? (RB) TLE591

2336 USB Stockholm/Malaga to Marseille p/p to Air Tolouse. VRG743 1922 USB Stockholm/On grnd EDDF req.s/c chk AMGP PPVOQ MD11. DAL39 0935 USB Stockholm/Radio and selcal chk/AHEK N753DA L101. DAL57 0943 USB Stockholm/Radio and selcal chk/EQBH N807DE MD11. DAL77 0957 USB Stockholm/Radio and selcal chk/CDBR N181DN B767. RIA1700 1045 USB Stockholm/dep.LIRN 1020/35 ETA LICZ 1120 81pax. AMT4524 1057 USB Stockholm/dep.EINN 1035/47 ETA KNHZ 1634 Fuel129.4 196pax uplift 16371 usg sel/BJHK N189AT L101. TOW602 1058 USB Stockholm/dep.Orly 0942/00 eta JFK 1730 46 pax posn LND 1049 F350 sel/AHDJ N602FF B747 (RD3) Tower 920 0029 USB LM-HK wkg Stockholm/departure rpt from REC. (TO)

8933 Cedar Rapids 0553 USB wkg flt 972 (unk company) for pp to company office. Pilot request instructions & medical info concerning 4 pax w/typhoid fever inbound to Miami from Panama. (EC1) DHL 530: 0106 USB wkg NY Radio pp Cincinnati Flt Control enrt Miami arrival 0330Z w/wx request. 63: 1122 USB wkg Miami wx info request. (KW2)

8957 Shannon: 1921 USB European VOLMET. (DES)

8960 Portishead: 1308 USB Wkg ? 5004. Flight req pp to OPS. (DES)

10018 Bombay: 1318 USB Vy weak wkg various flights. (DES)

10033 Laker 501: 1847 USB signing off w/LDOC Miami (RM)

10048 Honolulu 0610 USB wkg several a/c, very busy at this hour (AW)

10051 Gander Radio, CAN 2025 USB m EE Volmet (ANEU)

10057 Brazzaville Volmet, COG 2342 USB m EE Volmet (ANEU)

10072 Shamrock 106: 0359 USB clg Speedbird London no joy. Ansett 972: USB wkg Speedbird London SELCAL Ck CQ-PS. (KW2)

10075 American 940: 0050 USB wkg Houston Radio ops info freq primary ? secondary 6637. 993: 1057 USN wkg Cedar Rapids ops data and qsy to 13 mhz. (KW2) MIKE PAPA TANGO 1923 USB passing some kinda WX report to 401 TANGO ECHO,MPT also advised 401TE that he could use 179.40 while on the ground in Panama. (MF2) Houston: Universal Radio, Houston, Tx 0017 USB wkg N637GA (unid) & N7155P (Grumman G1159, Peterson Aviation, Van Nuys, Ca) w/requests for customs coordination. (RB)

10090 Khabarovsk Volmet 1007 USB YL/EE passing airfield wx conditions.(DW2)

11300 5XD: Entebbe Radio, UGA 1809 USB wkg Nairobi. (AI)

11306 BMA'MN 1929 USB Portishead/o/h Portugal no reply. GOBMN B737. (RD3)

11330 Tokyo 0835 USB wkg United 664, posrep. (AW)

11345 F-GHEK 1954 USB Stockholm (?) no joy. PH-TKC 2027 USB Stockholm (B-757, Transavia) pp Ops: problem w/Greek and Brussels ATC, on the ground Rhodos, also referring to flight 414 at Kos. In Dutch. EBA 807 2031 USB Stockholm (B-737, EuroBelgian Airlines) pp Ops, abt new flightplan/route, in French. Ops called the a/c "LTV", which is OO-LTV. Transavia VT 1024 USB Stockholm (B737 PH-HVT)technical problem, original destination Arrecife (Canaries), discussing diversion to either Fuerteventura or Las Palmas for technical assistance (partially in Dutch). Varig 722 1040 USB Stockholm (DC-10) reg. PP-VMD selcal HKLM eta LFPG (Paris/CDG) 1245, checked gamba 0748 (BH) FRADA 1055 USB Stockholm/pos'n 39N12W opr.CTM1025 p/p to AFR Dispatch,Paris A310 French AF. MAJ148 1110 USB Stockholm/Zurich to Bucharest.Fl/t was tx. in AM and Stockholm had difficulty rx.kept telling a/c to change to USB-pilot couldn't understand!!! AEL762 1112 USB Stockholm/On ground Milan with selcal chk/CSHP EICJA B767. JAL445 1113 USB Stockholm/o/h UHT 1107 F11600m Fuel 98.4. AFR520 1113 USB Stockholm/Req. radio and selcal chk/FLDJ FGETA. AAL95 1114 USB Stockholm/Req. selcal chk/JKRS N387AM B767. CFG'UE'1115 USB Stockholm/Req.private p/p.To call 10805. DABUE. DAL14A 1115 USB Stockholm/pos'n ARISA 1111 F350 Fuel 29.7. EBA940 1117 USB Stockholm, pp to Ops.presently holding due to problem at Faro.Will hold for another 40Mins then div.to Porto Santo. GMI'EC' 2031 USB Stockholm/Called o/h Barcelona req. p/p to Company DAGEC B737 (RD3)

11384 Air Mike 954 0845 USB clg Honolulu w/posrep. (AW) Japan air-778 0749 USB wkg Honolulu radio Sydney to Osaka. NZ-33 0749 USB wkg Honolulu radio Auckland to Narita. Air Mike-973C 0752 USB wkg Honolulu radio Guam to Nagoya DC-10. Air Mike-900C 0753 USB wkg Honolulu radio Guam to Bali FJES DC-10. Air Mike-903C 0754 USB wkg Honolulu radio Honolulu to Guam DC-10. Air Mike-957 0837 USB wkg Honolulu radio Honolulu to Guam 727. Japan Air-946 0836 USB wkg Honolulu radio, Guam to Osaka. 747. (SB)

11387 Singapore Volmet 0953 USB OM/EE passing airfield wx conditions.

Bombay Volmet 0956 USB OM/EE passing airfield wx conditions.
Sydney Volmet 1000 USB OM/EE passing airfield wx conditions. (DW2)
11396 LTU441 2216 USB NYC/29N60W 2215 F330 37N50W 2333 42N40W.To 8825 (RD3)
11401 KUP66: Ponape Micronesia 0855 wkg Qantas six. Selcal & posrep Qantas six confirming it's continuing to Honolulu (AW)
13270 Gander Radio UTC? USB ava/wx very good signal.(RT2).
13300 REACH-2310 0402 USB To Honolulu radio.
13306 unid acft (BLUE21??): 1101 USB wkg New York Radio advised KC10 acft w/6 F-16's (callsigns TESTY 71 thru 76) posn rpt ?N 50W. HAMBEL 03: 1115 USB wkg New York Radio posn rpt 39N 45W. NESTY 31: 1121 USB wkg New York Radio C130 acft posn rpt 39N 40W. BLUE 21(5?): 1121 USB wkg New York Radio posn rpt 42N 45W. TIMER 92: 1123 USB wkg New York Radio C130 acft radio ck. BLUE 11: 1125 USB wkg New York Radio posn rpt 42N 50W. REACH 0012: 1003 USB wkg New York radio ck. Lufthansa 462: 1404 USB wkg New York posn rpt & selcal ck CD-HL.(KW2)
New York: (NAT-A MWARA) 1603 USB wkg unid XA404, adv maintain 13306 as primary, 8906 secondary (at 1619 wk'ed this flt w/posrep); at 1607 wkg TWA 901 w/posn 40N/60W 1607 FL 370; at 1617 wkg Iberia 6251 reporting level 370, selcal ck DJ-RS (A340). New York: 1618 USB wkg Virgin Air 005 w/NY Center clearance, climb & maintain 350, report reaching; at 1620 wkg Air Portugal 38 w/posn & req 350, selcal ck BM-CS (A310) & req Gander wx; at 1622 American 63 relaying posn for N555KC (Gulfstream). (RB) Speedbird 219 1652 USB BE-KL wkg NY/ARP 43N50W F310. Swissair 120 1658 USB DE-GL wkg NY/ARP 44N40W F350, 747-300 HB-IGE. Speedbird 233 1733 USB AM-DF wkg NY/ARP 41N40W F310 DC10-30 G-MULL. (TO)
13342 4XCTE 0927 USB Stockholm/req.p/p to company.Westwind2 (RD3)
13348 993 1101 USB wkg Cedar Rapids ops info good copy. (KW2)
17927 Casablanca Aero? 0800 USB VIP flt PIREP (ANEE)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

62 Unid. 1415 RTTY 100/60R British Mil Encrypted w/RY & VMGTCNJ between messages. (PT)
111.4 SOA211: Warsaw Meteo, POL 1000 FAX conducting fax test transmissions (estimated center frequency). At 1000z, a 700hPa 48h prog chart for Europe, Polish borders marked by a bold line. Only half of the scanning line was filled with the chart, the rest being black. QRM by LORAN, and by DECCA on the other side. Later they switched back to their regular RTTY transmissions, w/occasional frequency glitches. (KB)
129 DCF49 Bonn Germany 1425 ASCII 200/170 BMPT w/test message in 200 baud ASCII this comes out as mainly garbage with "TEST8HH DCF49" in clear. (PT)
147.3 DDH47: Hamburg Meteo,D 0947 RTTY 50bd RY (AB) DDH47: Hamburg Met 1936 RTTY 50/85 met tfc. obs & forecasts in German, occ id strings. (DW)
DDH47: Hamburg 1410 RTTY 50/85N Hamburg Meteo with RY's & ID. (PT)
287.5 Hoek van Holland lt,HOL 2140 MSK 100bd DGPS transmissions (AB)
299.5 Ameland lt,HOL 2143 MSK 100bd DGPS transmissions (AB)
311.5 Oostende lt,BEL 2137 MSK 100bd DGPS transmissions (AB)
518 LGQ: Rogaland Radio, NOR 0948 FEC Navtex. OST: Oostende Radio, BEL 1048 FEC Navtex, id 'T'. GCC: Cullercoats, G 1648 FEC Navtex. OST: Oostende Radio, BEL 1000 FEC Navtex, id 'M' (new service) (AB) S: NITON 2020 FEC shipping forecast & nav warnings. M: OOSTENDE 2155 FEC nav warning. (DW)
1609.5 LGB Rogaland Radio, NOR 0110 ARQ w/CW id "LGB TLX" on Reg.1 Ch.:206 (ANEU)
1611.5 LGB?: Rogaland Radio, NOR 0100 ARQ w/CW id "LGB TLX", on Reg.1 Ch.209//1609.5, hr spurious ? (ANEU) (we would guess spurious -LOGS)
1612.5 GKR1: Wick Radio, G 0105 CW & SITOR id, on Reg.1 Ch.:212 (ANEU)
1613 OXZ: Lyngby Radio, DNK 0105 ARQ w/CW id, on Reg.1 Ch.:213 (ANEU)
1619.5 PCH85: Scheveningen Radio, NLD 0100 ARQ w/CW id, Reg. 1 Ch.:226 (ANEU)
2460 YLQ: Riga Radio, LVA 0045 ARQ w/CW id "YLQ SCAN AUTO" (ANEU)

2464 YLQ: Riga Radio, LVA 0110 ARQ w/CW //2460 2468.7, spurious? (ANEU)
2466.5 YLQ: Riga Radio, LVA 1900 ARQ w/CW id "YLQ SCAN AUTO", stronger then on 2460, spurious ?? (ANEU) (2464 & 2466.5 are probably spurious as YLQ is only on 2460 -LOGS)
2474 PBC32: DN Goeree Island 2040 RTTY 75/850 availability msgs (DG)
2525 SHIP "KELTAS KAUNAS" 2155 RTTY 50/170 tfc (disp/1 msg) via Klaipeda. (DW) (no ID on ship -LOGS)
2550.4 RP: LKA MAINZ 2204 ARQ-E 96/170 cct [hfvrp] to bonn. corrupt reply to qvl msg. At 2207 8crc. betas then svc to bonn. "zczc 001 hfvrp 040008 eee betr zz--qvl ok-- = mainz hf+ nnnn". (DW)
2584.1 MTI: RN PLYMOUTH 2219 RTTY 75/N/340 carb "02 02a mti" w/occasional time mark. (DW)
2607 FUO: FNy Toulon, F 0040 RTTY 75/850 RY & VVV (ANEU) FUO: FN TOULON 1907 RTTY 75/N/850 marker "vvv de fuo rys sgs figs int zbz" & letter shifts till next burst. (DW)
2643.5 SPS: Witowo Radio, POL 0040 ARQ w/CW "de SPS/TOR k" only CW hrd (ANEU)
2668.5 YLQ: Riga Radio, LVA 0110 ARQ w/CW id //2460 2664, spurious ? (ANEU) (it would seem so -LOGS)
2690.5 DHJ51: Grengel Meteo, D 0100 RTTY 100/425 wx (ANEU)
2727 DAN: Norddeich Radio, D 1850 ARQ w/CW id (ANEU)
2780.7 GND4: Stonehaven Radio, G 0030 ARQ w/CW id (ANEU)
2789 FUE: FNy Brest, F 0030 RTTY 75/850 RY & "AA de FUE testing" (ANEU)
2795 ESA: Tallinn Radio, EST 0025 ARQ w/CW id (ANEU)
2806 IGJ41: IN AUGUSTA 2243 RTTY 100/N/850 marker"igj41/igj42/igj43 /"(DW)
2829.5 SPB: Szczecin Radio, POL 1845 ARQ w/CW id (ANEU)
2832.7 GNK1: Norwick Radio, G 0025 ARQ w/CW id (ANEU)
2891 MGJ: RNy Faslane?, G 0015 RTTY 75/850 "02D 03B 04B 06C 08AOO 08D 12B 14C 16C 25D MGJ" (ANEU) (yes, Royal Navy Faslane -LOGS)
3172.5 IMB31: Rome Meteo, I 0005 RTTY 50/850 wx (ANEU)
3196 OLB7: Prague Meteo 2017 RTTY 50/500 wx rpts (DG)
3215 UGC: St.Petersburg Radio, RUS 0005 ARQ w/CW id (ANEU)
3330 Unid: NET 0945 COQUELET-13 13/360 3330 54. appears to be single freq net. various sig strengths. id's "de hh" and "tb de hh zbz jt". Belgian military net? "de 4v zkb zkb k k k". "2j de hh qrv k". (DW)
3388 Unid 2145 RTTY 50/495 encrypted The header for this is :608 500. 10 WEMPE VZBH= FM ZHHZDH FOR ZSYZOT(ZHAZDZ) V V (PT) (Ary sez Polish Military -LOGS)
3510 CFH: Halifax,NS UTC? FAX 120/576 wefax fair quality. (RT2).
3532.5 Unid: British Mil,??? 1238 Piccolo-12, crypto (MC)
3542.7 GKE1 BT ???? Radio 2355 ARQ w/CW id (ANEU) (Portishead rdo -LOGS)
3550 YMA20: Ankara Meteo, TUR RTTY 50Bd RY,"05-15z 10424 & 15-05z 3550kHz"(ANEU)
3607.3 GKZ1 Humber Radio, G 0220 ARQ w/CW id (ANEU)
3615.7 GKY1 ???? Radio, G 0220 ARQ w/CW id (ANEU) (see next log for ID, LOGS) GKY1: Portishead Radio, G 0410 ARQ w/sitor free signal, CW ID. (RB)
3652 GYA: RN LONDON 1510 FAX 120/576 1200z sfc analysis. (DW)
3655 Archangesk Meteo, URS 0010 RTTY 50Bd RYs, WX (ANEU)
3730 LYL: Klaipeda Radio 2200 RTTY 50/200 maritime TFC (DG)
3958.9 UNID: 2200 RTTY 100/850 wx fm OEJD & Syria, Jeddah Meteo ? (ANEU) (as Day Watson pointed out, more likely Cairo Meteo on 3958 but they still run 75 baud as far as we know and Jeddah does run 100 baud traffic. Interesting! -LOGS)
4002 YRR2: Bucharest Meteo, ROU 2355 RTTY 50/425 wx (ANEU)
4002 UNID: 1715 RTTY 50/425 parts coded?, ment: "Tuzla" & CAVOK, wx?, msg ended with VVVVVVVVVNNNN, Bucharest Meteo? (ANEU) (yes, YRR -LOGS)
4011.5 AAA4KY: U.S. Army MARS 0241 FEC wkg AAT4VX re digital comms problem. (RB)
4060.5 Unid: BritishMil,??? 2019 Piccolo-12, crypto (MC)
4160 Unid 0356 RTTY 110/170 w/enc. Paired sta. on 4164 (RM)
4175 ELP??: (????) N. SULLIVAN 0507 ARQ w/amver/fr, 2955n 08826w. login 09759 sull. (WT) (ELPG8, James N. Sullivan, a Liberian oiler -LOGS)
4178 3FCY3: MSC FEDERICA 0315 ARQ dirtlx, login 42014 3fcy3. (WT)
4209 FFT St.Lys Radio, F 0450 ARQ w/CW id (ANEU)
4210.5 KFS: San Francisco Radio 0523 FEC w/nx broadcast. (DW2)
4211 GKE2 Portishead Radio, G 0245 ARQ w/CW id, Ch.:2 (ANEU)
4211.5 LGW2 Rogaland Radio, NOR 0245 ARQ w/CW id "LGB TLX", Ch.:3 (ANEU)

KFS: 0729 FEC San Francisco R. CA tfc list baseball standings (RM)
4212.5 FFT21 St.Lys Radio, F 0245 ARQ w/CW id "FFT", Ch.:5 (ANEU)
GKE2 Portishead Radio, G 0250 ARQ w/CW id, Ch.:5 (ANEU)
4213 LGW3 Rogaland Radio, NOR 0240 ARQ w/CW id "LGB TLX", Ch.:6 (ANEU)
4214.5 VAI: CCG Vancouver BC 0724 FEC CAN plain text wx (RM)
4215 WLO Mobile Radio, USA 0235 ARQ w/CW id on Ch.10 (ANEU)
4215.5 HEC24 Berne Radio, SUI 0235 ARQ w/CW id "HEC", Ch.:12 (ANEU)
4217 PCH26: Scheveningen Radio, NLD 1820 ARQ w/CW id, ch.:15 (ANEU)
4218 OST: Oostende Radio, BEL 1810 ARQ w/CW id, ch.:17 (ANEU)
4218.5 YLQ Riga Radio, LVA 0240 ARQ w/CW id "YLQ SCAN AUTO", Ch.:18 (ANEU)
4227 IGJ42: IN AUGUSTA 2246 RTTY 100/850 marker "igj41/igj42/igj43 /" (DW)
4232.3 FUF 0400 RTTY 75/850 FN Fort de France w/ry sg 10C (RM)
4271 CFH 0411 FAX 120/576 CF Meteo Halifax NS wx chart (RM)
4295.3 HWN: 0417 RTTY 75/850 FN Paris w/ry sg 10C (RM)
4307 GYA: RN LONDON 1514 FAX 120/576 1200z sfc analysis. (DW)
4319 unid UTC? RTTY 100/400 (RT2)
4328 unid UTC? POL-ARQ 75/721 (RT2)
4335 YLQ: Riga Radio, LTU 1930 RTTY 50/125 tfc (name lists) to UNID, msgs ended with "28-4-229 Naumova- NNNN", id (ANEU)
4489 GFL26: Bracknell Meteo, G 1645 RTTY 75/425 WX (ANEU)
4542.5 FDY: French Air Force, Orleans 1234 RTTY 50/400 (1 stopbit), "voyez le brick..." (MC)
4570 DHJ51: Grengel Meteo 0719 FAX 120/576 wx fax (DG)
4583 DDK2: Hamburg Meteo, D 1650 RTTY 50/425 WX (ANEU) DDK2: Hamburg Meteo, Quick Born, G 0313 RTTY 50/425 w/AAXX meteo reports. (RB)
4610 GFA22: BRACKNELL MET 0949 FAX 120/576 upper air chart. (DW)
4752.5 RETWLG: GC Guipuzcoa 2117 ARQ MOI tfc (DG)
4801 Unid: NET 1139 COQUELET-13 13/360 4801 52. as w/3330 52 dual character tactical callsign in use. Exchanges but no msgs as such. (DW)
4813 LZA8: Sofia Meteo, BUL 2150 RTTY 50/425 WX (ANEU)
4831.1 FDY: FAF Orleans 0658 RTTY 50/400 testing (DG)
4856 FDY: FAF Orleans, F 1230 RTTY 50/425 ry/test/le brick (ANEU)
FDY: FAF Orleans 0651 RTTY 50/400 testing (DG) FDY: French Air Force, Orleans 1025 RTTY 50/400 (1 Stopbit), "voyez le brick..." (MC)
5049.2 Portuguese State Police 2000 FEC Command Post Santarem (CDSTR/CSP38) to Postos Continente (all continental posts) circular's on stolen cars (ANEE)
5049.2 CSP: 1937 ARQ testing (DG)
5055 JYF: PETRA Amman, JOR 1720 RTTY 50/425 EE nx (ANEU)
5082.3 RFLI: French Forces, Fort de 0556 ARQ-E3 France, Martinique, in 192/425 idling. (RB)
5097 CFH: 2106 RTTY 75/850 CF Halifax NS w/NAWS de... (RM)
5100 AXM32: MELBOURNE MET 0630 FAX 170/576 readable copy when no (intermittent) rtt qrm. (DW) AXM32: Melbourne 0734 FAX 120/57) METEO w/wx chart. (DW2)
5154 Unid: 0620 PACTOR unid tfc, MARS?. (RB)
5160.5 Unid: 0630 PACTOR unid tfc. (RB)
5190 BZC75: Urumqi Meteo, CHN 1830 RTTY 50/425 ry (ANEU)
5218 Unid: 0602 POL-ARQ 100/170, sounds like POL-ARQ, can't decode this mode, poss MFA Warsaw. (RB)
5240 4OC2: TANJUG Beograd, YUG 2125 RTTY 50 Bd EE nx (ANEU)
5264.5 DER: MOI Bonn 1847 ARQ-E 96/85 circuit test (DG)
5320 RN RATT BDCST 1817 RTTY 75/850 ratt msgs (DG)
5320.5 Guardia Civil HD, Valdemoro 0800 ARQ wkg Andalucian posts (not MOI Madrid! Spanish MOI is a portfolio, not a single building!) (ANEE)
RETXX: MOI Madrid 1908 ARQ MOI tfc (DG)
5353.5 RETZSE: GC Melilla 2032 ARQ MOI tfc (DG)
5408.7 UNID: 1315 RTTY 50?/850 coded msgs, every msg start with: V900, e.g. "V900 QXRPN (3x)", start & QRT with III or 888s (ANEU)
5420 RFFWERM: FF UNLOCATED 0815 ARQ-E 72/400 circuit test (DG)
5446 RFFE...: FF Bordeaux 1531 ARQ-E 72/400 circuit test (DG)
5731 YRR4: Bukarest Meteo, BUL 2300 RTTY 50/425 WX (ANEU) YRR4: Bucharest Meteo, ROU 0224 RTTY in 50/425 AAXX meteo reports. (RB)
5732.5 UNID: 2050 RTTY 75/425 cont "ZCZCZC...NNNNNNNN...ZCZCZCZCZC" (ANEU)
5766.3 Egyptian Embassy: unid loc 0214 ARQ w/ATU-80 tfc, 5LG's. (RB)
5773.2 HBD20: MFA Berne 1007 ARQ 5 FGS/OTA (DG)
5785.3 MOD Madrid 1550 RTTY tlx's to 14 army posts (ANEE)

5786.5 RFFE...: FF Bordeaux 0931 ARQ-E 72/400 circuit test (DG)
5796 Tunisian National Guard 1700 RTTY customs units w/telexes abt various vessel departures and what was visible on deck tfc in ATU-80 til 1730 (ANEE) UNID: 1845 RTTY 50/125 coded or non-latin writing?, often "OMM & numbers", many words start with K (ANEU) (Day Watson suggests ATU-80 perhaps, especially re prior log -LOGS)
5802 RFFWERM: 2137 ARQ-E 72/400 circuit test (DG)
5861.7 LYNX: PLACID ABUJA 2131 CW/SITOR marker "lynx" and tuning burst. (DW)
5862.5 Unid: 2135 ARQ-E 72/400 4crc. possibly starting up - running in sync w/"alpha rq alpha alpha" block idles. (DW)
5869.5 RETXX: MOI Madrid 1802 ARQ MOI tfc (DG)
5872.5 Guardia Civil, Algeciras 1615 ARQ w/tfc to Guardia Civil HQ Valdemoro (not MOI Madrid). Guardia Civil, Andalucia 0800 ARQ w/lots of info on ETA summer bombing campaign hits on Jaen, Granada and Malaga (ANEE) RETXX: MOI Madrid 1731 ARQ 100/400 MOI tfc (DG)
5887.5 IMB32: Rome Meteo, I 2300 RTTY 50/850 RY/CQ de IMB/31/32/33 (ANEU)
5909 UNID 0751 FAX 120/570 w/U.S. wx chart. (DW2)
6223.3 Noble Drilling: unid rig 0254 ARQ w/well development status report for "rig 4", after sending selcall QCCK (Portharcort). Rig Tommy Craighead, Noble Drilling 0446 ARQ w/company report after sending selcall QCCK (Portharcort). (RB)
6263 P3BF6: Elixir 0337 ARQ tlx for Oceanbulk, Athens. (AB2) YQGN: M/V Histria Star 0401 ARQ bulk carrier, w/tlx after sending selcall QSPV (SAB, Goeteborg rdo), is Calatis in ITU, login 26677 YQGN. (RB) 3FUM4: JOHNY C. 0600 ARQ w/tlx re valve repairs. 26955 jony. UNID: M/V WESTERN EAGLE 0246 ARQ w/tlx sailed fm woodfibre eta fraser surrey. C6DZ8: M/V SOUTHERN STAR 0752 ARQ w/tlx login 26447 sousta. (WT)
6264 WEZM: SS Ewa 0603 ARQ w/AMVER/FR, final report, for Seattle, Wa, login 10949 WEZM. (RB)
6265.5 C6LU3: M/V Albemarle Island 0630 ARQ Ecuadorian Lines reefer, w/BBXX wx obs. (RB) ELNS4: PACIFIC STAR 0435 ARQ w/tlx, arr phila pilot. login 24354 pstr. (WT)
6266.5 LLCX: Fv Moan senior tlx tfc co/ch 0520 ARQ LGU (BVR)
6267.5 LNVP3: SONG OF NORWAY 0540 ARQ w/tlx fm hotel mgr. login 32407 lnvp3. ELRV8: M/V SEABOARD OCEAN 0555 ARQ w/obs bbxx login 24973 elrv8 (WT)
6268.8 UNID 0231 RTTY 100/170 with ship's shopping list. (DW2)
6269 ELNY5: DSR Senator 0542 ARQ container ship, w/tlx to Inchcape Long Beach w/ships chandlers order, ETA, login 24406 ELNY5. (RB) SQGD: F/V WLOCZNIK 0200 ARQ w/tlx re injured man. login 43271 sqgd. (WT)
6269.5 USRS: TH Pioner Litvy 0600 ARQ w/BBXX wx obs, tlx from master Capt Pzdnyakov, vsl loaded w/5357 tns of phosphate. (RB)
6273.5 ELPG9: M/T GEORGE SCHULTZ 0620 ARQ wobs bbxx, login 31875 shul.(WT)
6274.5 ELFK6: M/S Jubilee 0650 ARQ w/OP+ tfc re ship listed on the traffic list, vsl is Carnival Cruises 47,262 DWT, 1,486 pass cruiseship.(RB)
6281 UFSS: M/V ARTEM 0440 ARQ w/tlx arr montuak. login 55951 ufss. SNAO: M/V SZARE SZEREGI 0423 ARQ w/tlx to bluewater bride?? eta swpas?? login 43294 snao. (WT)
6283.5 KGDF: Mv Mormacstar 0509 ARQ tlx tfc co/ch VCT (BVR)
6287 UNID 0216 RTTY 100/170 with encrypted traffic. (DW2)
6301.5 Unid: SHIP 0610 FEC rptd twice press report "dyaro sa dagat" via microwavecomm/dzj asof june 23/96. signed "de jp3/ (of caribe). report in EE, occ qrm fm ship arq as this ship (nonpaired rtty) channel. (DW) OXNV: Unid ship 0619 FEC w/press relay of DZJ nx for Filipino crewed ships, login 76874 OXNV (9XNVx?). (RB) JWYW: UNID 0425 ARQ clg qmca/ 32469 (no id) . tried to login as 30712 jwyw, no joy. (WT)
6302 SHIP "NORNESS" 0608 ARQ tfc to unid coaststation. (DW)
6314.5 SAB301: Goeteborg Radio, S 0515 ARQ sending out selcalls, IYPI & ISZK. (RB)
6317 WLO: Mobile, AL 0000 ARQ w/CW WLO marker.(rt2)
6326.5 SAB326: Goeteborg Radio 0728 ARQ tfc list (DG)
6327 URDX: M/V Aleksandr Pokalchuk 1603 ARQ in contact w/Mariupol R. (CK)
6327.5 WOM: Miami Fla UTC? FEC nx forecast wx(RT2)
6329.5 VCT: Torscove radio tfc lst 0515 FEC (BVR) VCT: CCG Tors CV,Nfld,Can. 0000 FEC ships tfc. (rt2) (not Canadian CG; Globe Wireless station -LOGS)

6333.5 IGJ43: IN AUGUSTA 0644 RTTY 100/850 marker "igj44/igj42/igj43 /". letters appearing after igj44 & igj42 callsigns indicate frequencies acting asa carb. (DW)
6340.5 NMF: 1604 FAX 120/576 USCG Boston MA w/iceberg chart (RM)
6395 TBA3: Izmir Naval RTTY 75/850 5FG's for RTQGDBCY. (CK)
6439 LYK: Klaipeda Radio 1054 RTTY 50/200 maritime tfc (DG)
6452.5 GYA: RN London 0700 FAX 120/576 wx fax (DG)
6453 NPG: USN San Francisco 0235 FAX 120/570 with Pacific wx chart. (DW2)
6455 CKN: CANFORCE Victoria British Columbia 0626 RTTY 75/170 with ICAO wx reports & buoy reports from a variety of straits and waterways along the Pacific coast. (DW2)
6462 FUM: French Navy Papeete Tahiti 0646 RTTY 75/170 w/call tape. (DW2)
6501 Unid 0345 RTTY 75/??? coded wx data, but was unable to get an id. Possible mention of CYFC? (SW3) (CFH, Canadian Forces, Halifax, NS, CAN on 6496.4 -LOGS)
6596.4 CFH: CANFORCE Halifax 0252 RTTY 75/850 with call tape. (DW2)
6671.6 Unid: 1924 UNID 250/170 unid ARQ system (MC)
6741.7 Tunisian Navy 1600 ARQ w/exercise off Monastir OTC onboard PLM Carthage (ANEE). Tunisian Navy: (unid vsl) 0305 ARQ w/FF tfc; at 0319 sending selcall XKTQ & w/"AA DE CC" tfc. (RB)
6769 SNN299: MFA Warsaw (POL) 1853z CW v-mkr (ANEU)
6776 AGA5MC: USAF MARS McChord AFB Tacoma WA 0706 PACKET w/mail for AFA5IQ & AFA5JN. (DW2)
6781.2 Unid 0435 ARQ-E 72/400 idling & QRT at 0545 (RM)
6801.5 Unid: 1800 ARQ-M2 54.28 idle. CCIR 242 w/inverted polarity til 0400 (ANEE)
6821.7 Unid: Chinese Diplo, ??? 2043 4+4 (MC)
6835 GFL22: Bracknell Meteo, G 0105 RTTY 75/425 WX (ANEU)
6845 MFA Warsaw 1803 POL-ARQ 100/250 diplo tfc (DG)
6883.3 AE1VLK: 1702 PACTOR 100/200 mars grams (DG)
6901.5 IRISH NAVY NET 1925 ARQ single freq opps. long list eg(per line) "0905:40z 5823 555 6a ss-1-2266 sp 10 149 n 03-16(b)" then irs. sign off by "de 20" using codes & EE, later "0a de 20". (DW)
6918.5 ECA7: Madrid Meteo, Spain 0413 FAX 120/576 w/ weak chart. (RB)
6931 Unid: 0807 ARQ-E 72/400 idling (DG)
6935.4 UNID 0437 ARQ-E3 192 baud idles no traffic noted. (DW2)
6963.8 Unid 0745 ARQ-E 192/170 Beta idler (RM) (we had prior logs of RFLIGA here before but 192/425 -LOGS)
6964 Unid:0940 FEC-A 192/170 WFWFWFWFWF... Appeared to be an open circuit. Was stepped on by Link-11 stations on a neighboring freq. (RM)
6996 AA3USA: U.S. ARMY MARS FORT MEADE 0442 PACKET 300bd wkg AT3TFC.(DW2)
6999.2 DEK88: ICRC Bonn 0940 ARQ U/I tfc (DG)
7311 FDY: FAF Orleans 1211 RTTY 50/400 testing (DG)
7315.3 unid UTC? COQULET 8(RT2)
7321.5 FDY: FAF Orleans 1208 RTTY 50/400 testing (DG)
7404.5 FDY: FAF Orleans 1203 RTTY 50/400 testing (DG)
7420 RFFH: FF Marseilles 1742 ARQ-E 72/400 circuit test (DG)
7484 SNN299: Polish MFA, Warsaw 1943 POL-ARQ 100bd/285 Message list for Ankara via MFA computer (MC)
7535 AXI33: Darwin Meteo, AUS 1340 FAX 120/576 w/very weak chart. (RB)
7541 UNID: 1855 RTTY 75/425 5LG's QRT w/"QRZ QSL 3 CFM GB SK" (ANEU) (SOUD/Brotherhood station -LOGS)
7572.5 UNID 0625 RTTY 144/170. Unable to synch on decoder using any available mode. (DW2)
7605 RFFA: MOD Paris France 0638 ARQ-E3 100/850 w/idles. (DW2)
7611.2 FHUR & UI49: 0900 RTTY 50/425 simplex QSOs, RYs,Q-grps, "UI49 er FHUR" reply with "FHUR er UI49" ("er" =3D de ?) (ANEU)
7639.2 JN***: 1948 FEC 100bd/170 Time strings in UTC ending "-- jn jn --" (MC)
7643.3 RFLI: French Forces, Fort de 0235 ARQ-E3 France, Martinique, in 192/425 idling. (RB)
7646 DDH7: Hamburg 1700 RTTY 50/400 Met (GD2) DDH7: Hamburg Meteo, Quick Born, GER 0236 RTTY 50/425 w/BBXX ship meteo reports. (RB)
7658 YZI223: Belgrade 1714 RTTY 50/400 Tanjug EE Press (GD2)
7670 RCC76: MOSCOW MET 1502 FAX 120/576 weak outlines in qrm, //10980. (DW)
7672.5 National Guard, ARS 1656 ARS-GUARD 125/150 ACF=96 (MC)
7677 HBD20: Berne 1655 ARQ MFA (GD2)

7681.1 AFA1NW Unid USAF MARS 2328 packet 300bd id's AFB3DD (RHB)
7705.7 RFTJ: FF Dakar, Sen 0000 ARQ-E3 192/340 idle (rt2)
7721 AAA6USA: 1445 PACKET USA MARS Ft. Sam Houston TX relay grams fm ABM4USA S. Korea to AAT6TTX (RM)
7721.7 TVVK: Egyptian Emb., Khartoum 2003 ARQ diplo tfc (DG)
7755.2 FF PARIS 1953 ARQ-M2 200/400 4crc. 2chan tdm. chans a: and b: betas. chan b: cct [rqf] controle de voie svc rfqp de rfqp at 2030z and 2154z. circuit id indicates paris (to djibouti) not djibouti (to paris). (DW) RFQP: FF Jibuti, DJI 0000 ARQ-E3 192/357 idle (rt2) RFQP: 0610 ARQ-M2 200/400 FF Djibouti w/both ch idle (RM)
7758 Polish Emb., Helsinki 1659 POL-ARQ 100/250 diplo tfc (DG)
7760 Archangelsk Meteo, RUS RTTY 50/850 0900z wx,ry (ANEU)
7770 GYU: 0545 VFT 75/170 RN Gibraltar all ch encrypted(RM)
7772.2 GYU: 0605 VFT ARQ-M2 96/170 idle(RM)
7784 KAWN AWS Offutt AFB Omaha NE 0645 RTTY 75/850 synoptic wx tfc. (DW2) KAWN: Offutt AFB 1451 RTTY 75/850 AWS Elkhorn NE aviation wx 1453: KNHC Tropical Weather Outlook from NWS Miami 1455: CWIS Iceberg Bulletin 1457: KMKC Convective Sigmet (RM) Unid: UTC? RTTY 75/850 w/KAWN tfc, comes up for a minute or two and then quiet and repeats the cycle over again.(RT2) (although carrying KAWN data, indications are this is from Puerto Rico. It has been reported as 7684 & 7684.5, AFS Offutt (probably due to the KAWN indicator), NRR, Roosevelt Roads & as Ceiba, PR. Hopefully this mystery gets solved soon -LOGS)
7784 Unid: 0000 ARQ-E 47/407 unid (rt2)
7796.7 RFLI French Forces Fort de France Martinique 0658 ARQ-E3 96/850 w/ idles. (DW2)
7806 YZD7: TANJUG Belgrade, YUG 1655 RTTY 50Bd RY, 1700z EE nx (ANEU) YZI225: Belgrade 1224 RTTY 50/400 Tanjug (GD2)
7815 Unid: 1419 VFT/FEC-A VFT 3 channel vft on usb. each channel, at +1100, 1780, 2460 fec/aat 196bds 170hz inverted and online encrypted. (DW)
7822.2 RFFA: MOD Paris, F 0000 ARQ-M2 200/346 tfc encrypted (rt2)
7831.7 Unid 0420 ARQ-E3 48/400 w/idle sig(RM)
7832.5 USAF MARS stations 1431 FEC rgns 1 & 2 (RM)
7834 5ST: Antananarivo 1730 ARQ-E3 48/400 Ascena (GD2)
7880 DDK3: Hamburg 1755 FAX 120/576 met (GD2)
7896.7 RFLI: FN Fort de France 0641 ARQ-E3 96/400 cdv on LIH ct (RM)
7905.2 NATO Mil.,??? 2008 Link-11 (MC)
7905.5 Unid: 0000 RTTY 75/595 unid encrypted baudot 1 stop bit (rt2)
7909.7 Seismological crew, Libya 1700 ARQ tfc to company HQ (UK?) chatter abt plane arrival til 1730 (ANEE)
7909.7 Unid 0511 FEC went QRT at tune in.(RM) (lot's of prior logs of a seismological crew in Libya sending company tfc poss to the UK in ARQ mode -LOGS)
7915 AFN1RT UTC? FEC USAF MARS net check ins(RT2)
7916 DGG91L2: PIAB BONN 0545 FEC-A 96/400 press in GG, to disc broadcasts at 0545 (europe), 1245(europe) & 1500 (n asia). Latter w/June schedules. (DW) DFG91: Bonn 1300 FEC-100 96/400 PIAB EE Press. (GD2)
7916.1 Unid 0530 RTTY ??/425 w/idle sig at slow baud rate(RM)
7921 Unid 1503 Clover Don't have eqpmt to decode this mode. CAP wings have been logged 700 Hz higher in freq but using packet radio. (RM)
7939.3 Unid 0513 RTTY 75/850 w/enc(RM)
7946 RFFVITT: 1800 ARQ-E 96 tfc to RFFKVHH msg servicing, line checks. (ANEE) RFVI: Le Port UTC? ARQ-E 96/415 FF Reu idle (RT2)
7959 9BC23: IRNA Teheran, IRN 1700 RTTY 50/425 EE nx (ANEU)
7964.2 Portuguese State Police 1700 ARQ Ponta Delgada and Santa Maria Azores Islands w/tfc in ARQ/FEC to COMGERPSP (Police General Command) Lisboa til 0300 (ANEE)
7975 SPW: PAP News Agency 1506 FEC maritime nx wimbledon results currency etc. (EW)
7983.7 RFTJ: 0514 ARQ-E3 48/400 FF Dakar idle sig(RM)
7997.1 SOH299 Warsaw Meteo,Poland 2038 Rtty ???/50bd met data (RHB)
8017.8 Unid 0528 RTTY 75/850 w/enc(RM)
8020 HMF85: KCNA Pyongyang, KRE 1820 RTTY 50/170 EE nx (ANEU) Unid 0520 VFT 75/170 12 ch all encrypted(RM)
8023 MFA Moscow 1625 PICOLLO 33 TONES CANNOT DECODE. (EW)
8026.7 MFA Cairo 1642 ARQ diplo tfc (DG)
8040 GFA23: Bracknell Meteo, G 0248 FAX 120/576 wefax, fair; at 2302

w/good chart. (RB) GFA23: Bracknell Meteo UTC? FAX 120/576 fair (RT2)
8050.2 Jibuti UTC? ARQ-M2 200/375 FF controle de Voie 1801 trf encrypted (RT2).
8077.6 Unid: 1632 UNID 144bd idling cannot decode narrow shift only 120HZ. (EW)
8080 NAM: USN Norfolk 0321 FAX 120/576 w/Oceanographic Features Analysis chart. (DW2) NAM?: Cutler,Maine UTC? FAX 120/576 very good quality (RT2). (info is that NAM closed and the facility was moved to Cutler, Maine well over a year ago and that Cutler uses "NAA". -LOGS)
8084.7 MKK London, Army?, England, UK 0017 Rtty 176/50bd UKDCN test tape w/id: DE MKK (RHB)
8086.5 MKK: RAF London, G 1515 VFT/RTTY 50Bd RYI/Foxes, id (ANEU)
8111.5 MKK: RAF London, G 1135 VFT/RTTY 50Bd RYI/Foxes, id (ANEU)
8111.7 GXQ: BA London, G 1505 VFT/RTTY 50/170 RYI/Foxes, id, other RYI-tape on channel 8112.2, 8112.9 50/170 (ANEU)
8137 TCY1: AA Ankara, TUR 1530 RTTY 50Bd TT nx. 1430z FF nx (ANEU)
8146.5 IMB55 Rome Meteo? ,Italy? 0030 Fax 120/576 met map weak sig no id (RHB)
8151 IGJ44: Italian Navy 1637 RTTY 100 repeats IGJ44 XIGJ42 XIGJ43. (EW) IGJ4x: INy Augusta, I 1655 RTTY 100/850 cont"IGJ44/IGJ42/IGJ43/" (ANEU) IGJ44 1640 RTTY 100bd/800hz Italian Navy Augusta (37.14n/015.14e) (DG) IGJ44: IN AUGUSTA 0629 RTTY 100/850 marker "igj44 /igj42/igj43/" (DW)
8151.6 Egyptian Embassy, Rome 2149 ARQ ATU-80 msgs to MFA Cairo (MC)
8191.8 9MR: MNy Johor Baharu, MLA 1540 RTTY 50/850 RY "RY JULL JULL 9MB 5/11 RMMJ MRB GSGS" (ANEU)
8267.7 Egyptian MFA, Cairo 1716 ARQ ATU-80 msgs to Embassy London "dgmg" s/c "XBVY" (MC)
8304.5 Ital. Navy Net 1435 UNID/RTTY-Sys Shift 850Hz, after SSB/USB -sx-coordination-QSOs, SSB-Fq 8302.5 kHz. Msg starts & end w/YYYY (or JJJ or '''', UNID speed) coded msg to INy vessels (see Military-Logs) (ANEU)
8317.8 68JKL: 1740 RTTY 100/850 "67YTR de 68JKL"/Foxes/RY/ "INT ZBZ K" direct after RTTY QRT on 8315.0 USB UNID language (S'EU). Spanish Military? 1605z RTTY 75/850 coded after RYs, no id, mni msgs, msgs start all w/: 16 RYs, "VMGTCNJ (character:1 line dwn)BH", MARK carrier transmits between each single msg (ANEU)
8323.8 UNID: 1745 UNID/RTTY Shift 850Hz, Format like ital. Navy on 8304.5 kHz, msgs start & end with YYYY (or JJJ or '''', sri UNID speed), see 8335.8 kHz but found no fone-SSB coordination-freq., no carrier between each msg (ANEU)
8335.8 UNID: 1700 UNID/RTTY Shift 850Hz, Format like ital. Navy on 8304.5 kHz, msgs start & end with YYYYs (or JJJs or ''''s, sri UNID speed), see 8323.8 kHz, but found no fone-SSB coordination-freq., no carrier between each msg (ANEU)
8336.8 DHJ59: GNy Wilhelmshafen, D 1730 VFT ?/170Hz, ch. 1/+1190Hz, see f0 8335.5 kHz (ANEU)
8337.5 DHJ59: GNy Wilhelmshafen, D 1730 VFT ?/170Hz, ch. 2/+1870Hz, see f0 8335.5 kHz (ANEU)
8338.2 DHJ59: GNy Wilhelmshafen, D 1730 VFT ?/170Hz, ch. 3/+2550Hz, see f0 8335.5 kHz (ANEU)
8340.5 MPKV: 0438 FEC Repeated Callsign MPKV (MS5) (see Digital Review column in Jan.96 WUNNEWS -LOGS)
8377.5 UYSJ: TKH Guiseppe Di Vittorio 0106 ARQ Ukrainian flagged cargo vsl, w/ODSTLG crew TG's via Odessa Radio. EORO: TKH Arkadiya 0410 ARQ w/tfc to Odessa Inflot, this may be a new ship replacing the former EORO, TKH Azerbaydzhan, sold Jan.1996 to become the Star Venture. (RB) WLVD: SS LURLINE 2333 ARQ w/bbxx login 10987 wlvd. WSLH: SS MAUI 0250 ARQ rx only, login 10724 wslh. 9GYU: M/V KETA LAGOON 0302 ARQ eta panama. WSRH: SS KAUAI 1620 ARQ 30.9n 131.1w login 11330 wsrh. OLGH: M/V OTAVA 0602 ARQ w/tlx to bratislava, slovak rep. (WT)
8379 J4BM: Amfitriti 0351 ARQ AMVER msg, selcall 16727. (AB2) ELNS4: M/V PACIFIC STAR 0143 ARQ w/tlx login 24354 pstr. CNGW: AL MOUNIR 0310 ARQ wkg wlo. login 31328 (WT)
8379.5 C6KR7: M/V WINTER MOON 0400 ARQ w/tlx, 0926n 07956w. login 26125 winmon. YQGN: M/V HISTRIA STAR 0215 ARQ w/tlx's, eta genoa. login 26677 yqgn. ATPN: M/V HARGOBIND 0802 ARQ wkg jna. login 23590 hrgd. (WT)

8380 YJZT8: M/V Golden Sun 0032 ARQ w/tlx to Chartworld, Piraeus. UVLQ: TKH Marshal Zhukov 0558 ARQ w/arrival rlx for "Road Algeciras" via St Lys Radio. (RB)
8380.5 9VCS: Kota Indah 1410 ARQ w/testing please ignore tlx, selcall 01872. (AB2) N/A: Esmeralda (BE-43) 0005 ARQ Chilean Navy four-masted training schooner wkg CBV, Valparaiso Radio, Chile, w/military formatted msg tfc, 5LG's, login 19006 ESME. (RB)
8381 OXAF4: M/V Kamsar Trader 0454 ARQ w/tlx re arrival Calgary. (RB) VRSW: M/V TRADE RICH 0322 ARQ wkg wlo lima to hong kong. login 48749 vrsw. (WT)
8381.5 SQNR: Praca 1226 ARQ w/tlx for Ulsan Steel, selcall 43126. 9VBA: Tune Alexander 1240 ARQ w/obs msg to Hong Kong. (AB2) 9HNO3: M/V MLJET 0253 ARQ in opr mode login 13654 mlje. YLAP: M/V P. SHTERNBERGS 0155 ARQ w/svc msg, qsl for 16 msgs. login 60620 ylap. (WT)
8382.5 WGZK: Chesapeake Trader 1432 ARQ w/AMVER msg, selcall 11167. (AB2) 9MCF5: M/V BUDI HUDA (EX-TOSCANA?) 2130 ARQ w/tlx. login 61698 tosca. SUCD: M/V ALWADI AL GADEED 0245 ARQ w/eta kushiro. login 78001 sucd. (WT)
8384 OXDF3: M/V Torm Freya 0833 ARQ w/BBXX wx obs to 'Wash D.C. meteo'. (RB) EOIQ: M/V ARAM KHACHATURYAN 0256 ARQ w/tlx's, missed login. (WT)
8384.5 C4XH: Derby North 1337 ARQ w/tfc, selcall 29323. (AB2) 9HYM3: M/V Kavo Maleas 0303 ARQ w/tlx to report loading, Mississippi River, passes ships info, bound Bayuquan, CHN; Psan, S.Korea & Vera Cruz, MEX. SGIX: Unid 0831 ARQ w/tlx re sailed Tacoma, ETA Uraga pilot, login 29562 SGIX, ID? 9HLQ3: M/V Elinka 1712 ARQ w/tlx in unid language, aps to be bunkers status. (RB) P3LZ3: M/V AROSA 0225 ARQ w/tlx's. login 29212 arosa. C4??: M/V CORYTON 0618 ARQ sailed recalada, eta vera cruz. login 29636 coryton. (WT)
8385.5 LANU4: RAVNANGER 0135 ARQ w/amver/pr, 0357n 08102w. login 28450 lanu (WT)
8387 ELNV2: Sevastaki 1324 ARQ w/tfc. (AB2) 3BJE: M/V BEL AZUR 0108 ARQ w/tlx, login 02754 bela. (WT)
8387.5 P3FE4: Fratzis M 1441 ARQ w/tfc, selcall 26761. (AB2)
8388.5 PGLM: M/V OCEAN KLIPPER 0417 ARQ 3643n 5227w eta portsmouth, eng. login 36616 pglm. (WT)
8389.5 KPJC: LPG/C CORNUCOPIA 0538 ARQ w/obs bbxx. (WT)
8389.8 HLJ: Seoul, S. Korea 1241 CW w/CQ DE HLJ marker. (AB2) (odd place for them! -LOGS)
8390 9HQT2: Sea Rider 0206 ARQ tfc via Batumi Radio. (AB2) SQRB: Mv Chopin tlx tfc to Gdynia 1900 ARQ (BVR) SQEQ: M/V KOPALNIA WALBRZYCH 0055 ARQ w/tlx 43266 sqeq. UNID: NEDLLOYD VAN REES 0533 ARQ posn, 1107n 11711w. login 29464 lanm. 3EKA9: LPG/C ARTESIA 0255 ARQ w/tlx, eta coatzacoalcos?? login 29045 artesi. LXDC: M/V CRYSTAL PRIMADONNA 0528 ARQ w/tlx login 29056 lxdc. (WT)
8391 WBN4113: Bulwark 1328 ARQ posn report to Seattle Dispatch, 58.16N/139.32W @ 8.1 knots. (AB2)
8392 P3RK4: M/V Abava 0302 ARQ tanker, w/tfc to Riga Radio SHRSM w/new callsign after name, is ex-YLAD, also ex-UIAX. (RB)
8392.5 UKTU: Olyutorskiy Zaliv 0340 ARQ msg ck. (AB2) UKTU: TR OLYUTORSKIY ZALIV 0210 ARQ wkg ufn. login 55565 uktu. (WT)
8393 BPJK: Jin Zhou 1407 ARQ w/tfc. BPRT: Sheng Li 7 1417 ARQ w/tfc. (AB2)
8393.5 EOXT: Goryn 0410 RTTY 50/170 RY's/DE EOXT to Odessa. (AB2) LXPC: M/V Crystal Prince 0550 ARQ w/posn tlx via Oostende Radio, 1952N/07337W, ETA Manzanillo (Dominican Republic). (RB)
8397 UBLE: Kapitan Nazin 1425 RTTY 50/170 crew TG's, ex-Kopli? (AB2)
8398.5 YQGN: Histria Star 0357 ARQ w/tfc for Nicosia, selcall 26677. (AB2) ELQC4: M/T New Wisdom 2200 ARQ w/AMVER/PR, 2006N/08325W, login 24728 WSTT. (RB) J8EX5: M/V RACISCE 0235 ARQ w/tlx to star reefers. login 26545 racisc (WT)
8402 UQTD: BKRT Nataliya Kovova 0306 RTTY in 50/170 admin tfc to Sevastopol SGP Atlantika via master KMD Nikiforov. (RB)
8402.5 USJZ: Sergey Vasilisin 0149 RTTY 50/170 crew TG's. (AB2) YLGC: TR Beringa Sala 0129 RTTY 50/170 Latvian reefer w/admin TG to Riga RTF from master KM Kositsyn for supplies needed. (RB)
8404.5 UALN: MKRTM Gilale 2338 RTTY 50/170 Russian small trawler/freezer, w/RYRY/DE to UIW, & w/1 TG using hull#/ID L0623. (RB)
8412.5 ESMS: RTMS Meriski 0538 RTTY 50/170 Estonian super fishing trawler

(stern)/super freezer vsl owned by Deep Sea Trawlers of Tallinn w/RYRY/DE to UIW, & 3 day catch/hold report from master Chistyakov using hull#/ID RTMS-7583. (RB)
8413 Unid: sc kyvv St. Petersburg 0448 ARQ radio (BVR) UTUO: TH Professor Nikolay 0423 ARQ -Baranskiy w/tfc to St Petersburg Radio after sending selcall KYVV (UGC). (RB)
8416.5 NMO: USCG CommSta Honolulu 0435 FEC w/wx forecast. (RB)
8417.5 KFS: San Fransisco radio 0527 FEC 05.30 hello all stations mgs 0533 tfc lst (BVR)
8426.5 WCC: Chatham radio tfc lst 0445 FEC (BVR)
8449 Unid: 0000 RTTY 75/281 unid. (rt2).
8453 HWN Paris-Houilles ,France 0032 Rtty 850/75bd French Navy test tape w/id: DE HWN DE HWN DE HWN rpt's (RHB)
8479 FUF Fort de France ,Martinique 2050/0011 Rtty 850/75bd French Navy test tape w/id: DE FUF (RHB)
8492.8 Unid: 0000 RTTY 75/170 unid. (rt2)
8677.5 UGC: ST PETERSBURG RADIO 1510 FEC press broadcast in 3sc. started 1515z, doesn't appear to be transmitted on any other (known) ugc frequencies. ends "mailbox empty connection time = 038 mins. reverts to marker "ugc" (DW)
8697 unid UTC? RTTY 75/850 (RT2)
8846.4 Tunisian MFA, Tunis 2126 FEC 5LGs and opchat in FF (MC)
9041 5YE: NAIROBI MET 1723 RTTY 100/400 marker "cq de 5ye and ry's" interleaved with met tfc. (DW)
9044.9 5YE: NAIROBI MET 1728 FAX 120/576 significant wx chart. (DW)
9076.7 RFFA: MOD Paris, F 0000 ARQ-E3 192/400 idle (rt2)
9082 GXQ: RN LONDON 1832 VFT// 8 channel dcn interleaved vft on usb. (DW)
9082.5 GXQ: RN LONDON 1839 VFT RTTY 50/340 9082.595. chan 1 (eng) in vft. idle on mark. (DW)
9082.7 GXQ: RN LONDON 1841 VFT RTTY 75/340 9082.765. chan 2 in vft. acf7, on line encrypted. (DW)
9083.2 GXQ: RN LONDON 1844 VFT RTTY 75/340 9083.275. chan 3 in vft. idle on mark, occ blocked encrypted tfc. entry reversals and vmgtcnj. (DW)
9083.4 GXQ: RN LONDON 1851 VFT RTTY 75/340 9083.445 chan 4 in vft. acf7. online encrypted tfc. (DW)
9083.9 GXQ: RN LONDON 1906 VFT ARQ-M2 96/340 9083.955. chan 5 in vft. 2 chan tdm 4crc. poor sync. (DW)
9083.9 GXQ: RN LONDON 2155 VFT ARQ-M2 96/340 9083.955. chan 5 in vft. 2 chan tdm 4crc. ch:a alp[has ch:b betas. (DW)
9084.1 GXQ: RN LONDON 1915 VFT UNID 96/340 9084.125. chan 6 in vft. unid mode. acf 5 and 80. (DW)
9084.5 Unid 0713 ARQ-E 72/170 w/RQ sig (RM)
9084.6 GXQ: RN LONDON 1924 VFT ARQ-M2 96/340 9084.635. chan 7 in vft 2 chan tdm 4crc. chan a: met tfc. chan b:betas. (DW)
9084.8 GXQ: RN LONDON 1947 VFT RTTY 100/340 9084.805 chan 8 in vft. acf blocked online encryption. start with reversals and vmgtcnj. (DW)
9089.7 NPG: USN Stockton CA 0739 FAX 120/576 wx chart 300 Hz low in freq. (RM)
9111.7 Egyptian Embassy, Bonn 1818 FEC ATU-80 MSGs to MFA Cairo "jg y---lg" (MC)
9126.7 RFTJD: Libreville UTC? arq-e3 192/390 ff idle (RT2).
9161.7 MFA Cairo 1815 ARQ tfc to UNID Embassy, qrt atu-80 (ANEE)
9200 FUX: FN Le Port, REU 0000 RTTY 75/850 encrypted.(rt2)
9206.7 Egyptian Embassy, Paris 2132 FEC ATU-80 MSGs in SBRS mode marked "jg yphgk ykfsp" (MC)
9208 V5G: 2120 ROU-FEC 164.481/400 MFA Bucharest w/jurnalul national rompres. Also brief CW xmsn during bcst (RM)
9211.7 Egyptian Embassy,??? 1559 ARQ ATU-80 tfc (MC)
9213.5 Unid: RTTY 75/765 unid (RT2)
9221.7 Egyptian MFA, Cairo 2101 ARQ ATU-80 MSGs to various embassies (MC)
9241.7 Egyptian Embassy, Algiers 1757 ARQ ATU-80 MSGs and 5FGs "from boustan alger" (MC)
9300 Unid 2205 RTTY 75/850 w/enc (RM)
9323 Unid 2039 ARQ-E/72 idling past 0100 when sig. begins fading away. Have logged RFFXI FF Versailles F using ARQ-E/72 one kHz higher in freq. (RM)
9330 Unid 0720 RTTY 110/170 encrypted (RM)
9395 HMF84: Pyongyang, N. Korea 1758 RTTY 50/200 KCNA nx in FF. (AB2)

9961.8 Unid 1642 RTTY 75/850 encrypted (RM)
9967.7 LYNX: PLACID ABUJA 2208 CW/SITOR marker ""lynx" and tuning bursts. (DW)
9970 JMH3: Tokyo Meteo 1632 FAX 120/576 J wx chart very good copy (RM)
9983.5 Unid: ARQ-E3 100bd Unid 0106 ARQ-E3 100bd/425 sync'd idle (RHB) (Day Watson sez FF Paris logged here before -LOGS)
10061.6 Egyptian Embassy, Rome 1907 ARQ ATU-80 MSGs and 5LGs to MFA Cairo (MC)
10111.3 Unid:1000 ARQ-E3 96/400 RQ sig. Listed in Klingenfuss as FJY2 DTRE Port-aux-France Kerguelen Is (RM)
10113.2 Unid: 0647 ARQ-M2 200/400 4crc. 2ch tdm, CCIR242. signal poor but this is only mode which seems to cause occ sync and intermittent beta flag. acf8 and 56. monitorto disc all day w/o achieving further info. (DW)
10130 RBX73: Tashkent UTC? RTTY 50/850 meteo uzb wx (RT2)
10132.1 TNL: ASECNA, Brazzaville 2020 RTTY 50/645 AAXX WX for African Airports (MC)
10152.2 Russian Mil,??? 1602 MS-5 12 tone vocoder (700Hz pilot - on LSB) (MC)
10160.9 Unid: 1530 PACTOR 100/200 stand. pactor. tfc in french. two stations on net. ends with "fin de transmission ******* -urwtte bwte tebe fev0." (DW)
10161 SNN299: MFA Warsaw 1617 POL-ARQ 100 polish msgs. (EW)
10174.5 RET???: Spanish Mil/Police,??? 1703 ARQ 100/400 MSG in SS (MC)
10175 UNHCR Nouakchott, Mauritania 0800 ARQ msgs abt stats of 5400 refugees in UNHCR camps. (ANEE) UNHCR: Africa? 2122 ARQ Reports in FF followed by rptd selcal "HCXL" (MC)
10177.7 RFFA: MOD Paris, F 0000 ARQ-E3 192/425 idle (rt2)
10202 MKK: Royal Air Force, London 2052 VFT: 7ch of 50bd/170 Baudot, "quick brown fox... test de mkk" (MC)
10215 HZN48: Jedday Meteo, ARS 1520 RTTY 100/850 wx (ANEU)
HZN46 Jeddah Meteo Saudi Arabia 0149 Rtty 787/100bd met data (RHB)
HZN48: Jeddah UTC? RTTY 100/794 meteo ars wx baudot 15 stopbit (RT2)
HZN48: Jeddah Meteo, Saudia Arabia 2010 RTTY 100bd/850 AAXX rpts (MC)
10218.8 Unid UTC? 40/475 urs multi-tone (RT2)
10280 MKK: London UTC? RTTY 50/240 RAF rys/foxes/0-9 (RT2)
10293.7 261***,101***: N.Africa? 1823 PACKET 300bd/200 Encoded BBS messages (MC)
10372 Russian Navy,??? 1838 36-50 50bd/250 tfc (MC)
10379.9 Unid 0014 RTTY 110/170 w/enc (RM)
10380 Unid: 1013 RTTY 110/170 w/enc (RM)
10411.7 Egyptian Embassy, Paris 1847 ARQ 5LGs & ATU-80 MSGs to MFA Cairo "jg yphkg ykfsp" (MC)
10428 unid UTC? FEC-S 75/838 (RT2)
Unid: 0000 RTTY 75/850 UNID cyptro?? (RT2).
10428.5 unid UTC? RTTY 75/###?? (RT2)
10431.3 Unid: 2055 UNID 150bd/1700 Unid FSK System, extremely wide shift (MC)
10435.3 Spanish Army Comms Centers 2040 ARQ Araca and Vitoria, Territorial Comms Center w/net msg tx/rx daily stats telex (ANEE) SA VITORIA NET 0646 ARQ 100/300 single freq ops. tfc in spanish. use of z codes (military) zue/zub. all day mon to disc. large number of routing indicators/locations. selcal in use vivi assuming units calling sp army vitoria, further tfc at 1100. (DW) RETENT: Spain 1100 ARQ Tfc in Spanish (PT)
10442 NATO Mil. 2026 RTTY 100bd/850 Sixteen RYs and "vmgtcnjbh" crypto lead-in (MC) unid UTC? RTTY 100/855 baudot 10 stopbit (RT2)
10442.6 Unid: 1015 ASCII 300/300 w/enc (RM)
10461.7 Egyptian MFA, Cairo 1608 ARQ 100bd/170 Calling Embassy Madrid selcal "XBVF" (MC)
10473 French Diplo 1849 ARQ6-90 200bd/850 idle in IRS mode ending in "kkk" and off (MC)
10493.7 RFTJF: Port Bouet, CTI 0000 ARQ-E3 48/400 idle (RT2).
10512.7 RFLI: FF Fort De France, MRT 0000 ARQ-E3 192/375 idle.(RT2) RFLI: French Forces, Fort de 0119 ARQ-E3 France, Martinique, in 192/425 idling. (RB)
10524 KCNA Pyongyang N.Korea UTC? RTTY 50/400 nx in ff (RT2).
10536 CFH: Halifax Ns Can UTC? RTTY 75/489 15 stopbit wx(RT2)
10540 MFA Moscow 1557 PICOLLO 33 tones cannot decode. (EW) (Day Watson sez this isn't Picollo but rather a CIS mfsk system using 36 tones of

which 32 are normally seen in blocks of 10 11 11 -LOGS)
10542.3 Unid 0005 RTTY 150/850 w/enc (RM)
10542.5 unid UTC? RTTY 75/835 1.5 stopbit (RT2)
10551.3 GFL23: Bracknell meteo UTC? RTTY 75/390 20 baudot stopbit wx\ry (RT2)
10560 XVN37: Hanoi 1500 RTTY 75/400 VNA Eng Press (GD2)
10580 HMF46: Pyongyang, N. Korea 1459 RTTY 50/200 KCNA nx in EE. (AB2)
Pyongyang N Korea UTC? RTTY 50\258 KCNA nx in ee, 1 stop bit(RT2)
10665.5 British Mil. 1604 Piccolo-12, tfc (MC)
10733 Unid: 1552 81-81 81bd cannot decode. (EW)
10797.7 RFLI?: French Forces, Fort de France, Martinique 0123 ARQ-E3 in 192/425 idling, this was 96 baud. (RB)
10821.6 Egyptian MFA, Cairo 1650 ARQ Calling selcal "TVVS" (Embassy Kuwait) (MC)
10856 MKK: RAF London 0840 RTTY 50/340 VFT Aggregate of signals including ARQ-M2 ID with ryi + foxes.(PT)
10856 GXQ: London 1000 RTTY 50/340 VFT British Army (PT)
10870 unid UTC? HC-ARQ638 240/560??(RT2)
10873.7 RFVI: Le Port UTC? ARQ-E3 100/378 idle (RT2)
10927.5 British Mil. 1942 VFT: 4ch of Piccolo-6, eng ch. idle (MC)
10927.9 British Mil. 1942 VFT: 4ch of Piccolo-6, ch 1 crypto tfc (MC)
10928.3 British Mil. 1943 VFT: 4ch of Piccolo-6, ch 2 idle (MC)
10928.7 British Mil. 1944 VFT: 4ch of Piccolo-6, ch 3 idle (MC)
10952 HBD: MFA Berne 1545 ARQ 5LGS. (EW)
10954.8 RFTJF Port Bouet,Cote de Ivorie 2115 ARQ-E 850/48bd French Forces idle (RHB)
10955.2 Unid 0700 ARQ-E 48/850 w/idle sig (RM)
10980 RDD75: MOSCOW MET 1458 FAX 120/576 weak outlines in noise //7670. (DW)
10991 RFFVAY: Sarajevo 1850 ARQ-M2 200/385 Flight info traffic to RFFVY via "FKWB" circuit. (PT)
Unid 2004 PICCOLO sends brief msgs periodically on 2-ch sys Turns off xmtr between msgs. Sig strength seems to indicate from North America, also on 10992. (RM)
11013.7 MFA Cairo 1600 ARQ w/circular, press and info ministry circulars to all embassies atu-80 til 1700 (ANEE) Egyptian MFA, Cairo 1617 ARQ idle in IRS mode (MC)
11023.7 MFA Cairo 1700 ARQ tfc to Embassy London atu-80 msgs (ANEE)
Egyptian MFA, Cairo 1717 ARQ Calling selcal "KKXI" (MC)
11030 AXM34: MELBOURNE MET 0634 FAX 120/576 chart for indian ocean ne of australia. (DW)
11043 WJI: Location Unid 1500 RTTY 100/856N unid ARQ-E3 station on this freq to 1500. As soon as he went off the air this sig vy strong came on with RY's and "WJI WJI WJI QSY43 QSY43" then "WJI WJI WJI R R R R R R R R R R ZAP6 ZAP6 ZAP6". When he had established comms he switched to unid mode (PT)
11043.3 RFTJD: French Forces, Libreville, GAB 0125 ARQ-E3 192/425, idling. (RB)
11043.7 RFTJD: 2027 ARQ-E3 192/400 FF Libreville GAB on JDJ ct w/de rftjd zfx TJD907 msg to RFTJ Dakar SEN. Was only msg seen during 28-hr monitoring period. Excellent reception entire time. Xmtr is occasionally shut off for about an hour or so then RF TJD returns w/idle sig. (RM)
11072.3 RFGW: MFA Paris 1537 FEC-A 192 idling no traffic. (EW)
11107.5 RETWBB***: Guardia Civil, Barcelona 1625 ARQ 100bd/400 Sinclas MSGs to RETXO mkd "fm jecor barcelona" (MC)
11137 Unid 1550 FAX 120/576 w/wx charts +1600 +1610. Continuously fading sig. just audible at 1615(RM)
11163.5 French Diplo,??? 2139 TT2300b 100bd idle (MC)
11164.3 DOR***: Bulgarian MFA, Sofia 2059 IRA-ARQ 300bd/500 Call-up in 75bd/500 Baudot to "PMO" Washington (MC)
11202.1 Unid: 1746 7 tones, 200Hz spacing, each tone 100bps 4DPSK modulated (MC)
11203.5 French Diplo,??? 1830 TT2300b 100bd idle (MC)
11221.7 Egyptian MFA, Cairo 1907 ARQ ATU-80 MSGs to various embassies (MC)
11272.1 Unid: 1640 UNID 100bd? 4 tone UNID Clover System, (-600/-200/+200/+600) ACF=190? (MC)
11385.7 MFA Cairo 1345 ARQ w/Embassy Baghdad atu-80 messages (baghdad selcall= TVVC) Baghdad/Cairo link on 7751.7 (ANEE)

11405 4UZ: UNHCR, Geneva 1810 PACTOR-U 200bd/200 MSGs in EE to "Representatives" (MC)
11411.5 GXQ: RN LONDON 1803 VFT 8 chan dcn interleaved vft on usb. (DW)
11412 GXQ: BArmy London, G 1555 VFT/RTTY 50Bd RYI/Foxes (ANEU)
11413.4 GXQ: RN LONDON 1806 RTTY 50/340 11413.455. chan 5 in vft. "qbf figs test de gxq". (DW)
11425 Romanian MFA, Bucharest 0711 164.5bd/400 ROU-FEC, crypto (MC)
11430 HMF55: Pyongyang, N. Korea 1528 RTTY 50/200 KCNA nx in EE. (AB2) HMF55: 2126 RTTY 50/250 KCNA Jungsan N Korea ry + qra (RM)
11434.5 C37A***: Israeli Intel, Jerusalem 1924 ARQ-E 288bd/330 crypto (MC)
11438 Unid 1400 RTTY 75/170 w/enc (RM)
11441.7 Unid: 1814 UNID 108.9bd/170 UNID FSK System (MC)
11453 IMB3: ROME MET 1818 RTTY 50/850 met traffic. (DW) IMB3: Rome Meteo UTC? RTTY 50/280 wx good copy (RT2). IMB3: 2125 RTTY 50/850 Rome Meteo coded wx (RM)
11476 HMF52: Pyongyang, N. Korea 1807 RTTY 50/200 KCNA nx in EE. (AB2) HMF52: 2121 RTTY 50/250 KCNA Bosong KRE ry + qra (RM)
11500.3 Unid: 2119 RTTY 75/850 w/enc (RM)
11513 Unid: 1826 PICCOLO 11513 90. chan in vft. online encrypted. (DW)
11513.4 Unid: 1828 PICCOLO 11513.490. chan in vft. idle. (DW)
11514 Unid: 1824 PICCOLO//VFT two channel piccolo on lsb. (DW)
11522.5 Unid: 0000 RTTY 100/850 unid (rt2)
11536 HMF49: Pyongyang, N. Korea 1816 RTTY 50/200 KCNA nx in FF. (AB2)
11539.2 Unid: 1123 RS-ARQ 228.7bd/170 tfc (MC)
11620 Unid: 2130 FAX 120/576 USAF w/wx charts. KAWN Elkhorn NE? (RM)
11631.7 RFTJ: 2307 ARQ-E3 192/400 FF Dakar w/ cdv on tji ct to Fort de France (RM)
11638 DDK8: 0107 RTTY 50/400 Pinneberg Meteo ry (RM)
12093.5 unid UTC? ARQ-E 50/600 (RT2) (odd baud for ARQ-E! -LOGS)
12120.5 SUNA Khartoum, SDN 0000 RTTY 50 too much qrn to copy good. (rt2)
12127.5 Unid 1528 DUP-ARQ Hungarian diplo. Very weak sig could not decode.Also too much RFI from crummy video monitor. (RM)
12136.7 RFFA: MOD Paris 1703 ARQ-E3 200/400 idling (DG)
12140 HWN: French Navy, Paris 1823 RTTY 150bd/650 "de hwn hwn hwn ryryryryry sgsgsgsgs 1-0" (MC) HWN: 0113 RTTY 150/850 FN Paris ry sg 10c (RM)
12165 RKB78: MOSCOW MET 1439 FAX 120/576 asxx sfc analysis? w/observations. (DW)
12276 6XM8***: Germany 0939 ARQ-E 288bd/170 crypto (MC)
12327 GYU Gibraltar VFT UTC? 75/400 RN gib encrypted (RT2)
12386 Unid: 0755 UNID 200 idle but cannot decode. very narrow shift.(EW)
12477 N/A: M/V Cashat Tide 0246 ARQ att to send tlx to Tidewater SingaPore, after sending selcall MCQV for 9VG, Singapore Radio. (RB) YLDE: M/V AKADEMIKIS CHELOMEYES 2355 ARQ w/tlx, login 60680 ylde. (WT)
12478 SVKJ: M/V SKYROS 2300 ARQ w/noon psn, 2308s 12229w. login 16961 svkj. 3FIJ5: CRIMSON MERCURY 0003 ARQ w/amver/pr 1930n 10536w. ELBE3: M/V HARBEL TAPPER 0410 ARQ w/qrg rpt, using rfrf protocol. is this a new company on globe?? UNID: M/V CONTIGO 1800 ARQ wkg kfs due satcom inop (hurricane boris got sat ant) login 05297 ctgo. (WT)
12479 WGWA: Omi Williamette 1424 ARQ w/tfc, selcall 11076. (AB2) UWFU: M/V Viktor Kornatovskiy 0223 ARQ w/posn 3100N/08050W, amended ETA, login 67936 UWFU. (RB) 3FAC4: M/V COLUMBIA 0038 ARQ w/amver/, dept l.a. login 24111 3fac4. ELEU4: M/V LAJA 0138 ARQ rx only, login 24886 eleu. (WT)
12479.5 V2LC: MAERSK RECIFE 0248 ARQ qth houston w/tlx in gg. login 26954 v2lc. (WT)
12480 ELJK3: M/T Amersham 1830 ARQ Liberian oil tanker, w/AMVER/DR, bound from Texas City to Miranda. (RB)
12480.5 UZXW: TK Geroi Novorossiyska 1622 ARQ w/tlx for ETA, login 55144 UZXW. UWKX: M/T Kapitan Ostashevskiy 2218 ARQ w/tlx to Proship re problem w/cooling pump. (RB) UNID: M/V HISTRIA STAR 0327 ARQ login, 26677 yqgn (ex calatis??). UZXW: TK GEROI NOVOROSSIJSKA 0238 ARQ arr baytown cargo w/48285 m.t.gasoil. login 55144 uzxw. 9HLO3: M/V DALNACIJA FRIGO 0030 ARQ w/tlx. login 26516 dalfi. P3QK2: M/V FIFI 0400 ARQ w/tlx login 00663 p3qk2. (WT)
12481 N/A: Esmeralda (BE-43) 0103 ARQ Chilean Navy four-masted training schooner, wkg Valpariso Radio w/mil tlx w/reference to the USS John F. Kennedy, frequently logged recently (as have other Chilean Navy

ships) wkg CBV using login 19006 ESME. (RB)
12482 WPPO: M/V Advantage 1448 ARQ break bulk cargo vsl, w/BBXX wx obs, login 11979 WPPO. 9VIU: M/T Neptune Dorado 1558 ARQ passing vsl info to establish account, selcall 78384, 'answerback' 26315 NEPTO X, rdo authority BE02, MMS 563051000. ELIT6: M/V Bona Shimmer 1715 ARQ w/AMVER/PR, 1732N/08023W, port St James, La, login 24304 SHIM. C6KE4: M/V El Pampero 1730 ARQ w/AMVER/PR, 3439N/07525W, port Newport News, Va, login 61333 ELPAMP. (RB)
12483 UWFL: Serov 1339 ARQ tfc for Hong Kong & Bangkok, selcall 67800. (AB2) P3EZ5: M/V PACIFICATOR 0445 ARQ w/tlx, login 29268 pacifi. OXHU: ITALIAN REEFER 1830 ARQ w/amver/pr 2720n 11506w. login 04531 oxhu. (WT)
12484.5 LZGX: Unid: 2035 ARQ working varna/lzw. (DW) (Stoyko Peyev -LOGS)
12486 WEZM: SS EWA 0048 ARQ w/e-mail. login 10949 wezm. WFDW: KEYSTONE RHODE ISLAND 0354 ARQ w/qrg rpt. login 11227 wfdw. (WT)
12488.5 ELOQ4: M/V IVORY DAWN 2350 ARQ w/tlx re containers. login 29017 dawn. UWAK: TH VALERIYA BARSOVA 0624 ARQ w/tlx's login 67751 uwak (WT)
12490 NZAU: USNS Sumner (T-AGS-61) 2002 ARQ w/Unclass BBXX wx obs to NAVLANTMETOCCEN Norfolk via NMN. (RB)
12493.5 5LTC: M/V Serena Sky 2112 ARQ w/AMVER/SP, login 636005630 5LTC. (RB) SVLK: M/V ANGELIC PROTECTOR 0012 ARQ noon 8th 3802n 13314w. login 16835 svlk. (WT)
12494.5 SNAG: F/V SAGRAN 0410 ARQ wkg spb w/ tlx in pp. SUCP: M/V WADI AL MOULOUK 0757 ARQ tlx to cairo. login 78005 sucp.(WT)
12495 UVRB: TKH Kapitan Spivak 2210 ARQ w/admin tlx to Novorossiysk Radio from master KM Achykin. (RB)
12495.5 UUAY: Vinnitsa 1350 ARQ tfc via WCC. (AB2) SNVP: M/T FOKA 0458 ARQ w/tg's, login 43291 snvp. SNVY: M/T LANGUSTA 0532 ARQ wkg qskx/ 2930 gdynia, pol w/tg's in pp. SNVP: M/T FOKA 0417 ARQ wkg spa gdynia, login 43291 foka snvp. (WT)
12496.5 C6SX: M/V Black Sea 1602 ARQ w/admin tlx login 70066 C6SX. (RB) VPHX: M/V PAWNEE 0035 ARQ wkg wlo, qru. login 47989 vphx. (WT)
12497.5 SQFA: M/T REKIN 0000 ARQ w/eta victoria. login 43185 rekin. 3EPY5: M/V OURIANA SMILE 2345 ARQ login 27585 3epy5. (itu shows c/s p3dy5??) (WT)
12500 IBJG: M/V Orinoco 2205 ARQ w/tlx to Itamar, Genova, app ex-Delmas Kovrov. (RB)
12502 EORU: TKH Boris Babochkin 2137 ARQ w/admin tfc to Mariupol Morflot from master KM Bidenko, login 67816 EORU. KIOH: SS Golden Gate 2145 ARQ w/tlx for status of voyage 90, posn 2828N/11601W. (RB) 3EAW7: M/V PACIFIC RIDER 0034 ARQ w/tlx. login 42593 3eaw7. (WT)
12503.5 LENA3: M/S Song of America 1602 ARQ 1402 passenger Royal Caribbean Lines cruiseship, w/manifest figures for NY showing 1,395 pass, 552 crew. (RB) C6CP6: M/V HYDE PARK 0110 ARQ w/tlx (WT)
12505 KPSB: Coronado 1350 ARQ QRG report, selcall 10749. (AB2) WGXN: M/V President Garfield 1706 ARQ last known to be American Presidents line container ship M/V President Garfield, with login for app msg ck (no name used), login 11734 WGXN. (RB)
12507 UWLF: Shilute 0333 RTTY 50/170 RY's & DE to URL. (AB2)
12509 unid UTC? ARQ Channel 65 in ee trfc.(RT2)
12510 SKWI: M/V TRISTAN 0155 ARQ w/eta crl? login 26364 tristn. 3EBV6: M/V LEODIS 0150 ARQ to maritex s. puerto caldera to paita peru. login 29633 leodas. J8HF5: AFRODITE 0300 ARQ w/tlx in ?? login 26093 alice. (WT)
12512.5 UTXJ: TKH Vera Khoruzhaya 2126 ARQ Ukrainian flagged Ro/Ro Cargo vsl, w/crew TG's. USEZ: TKH Znamya Oktyabrya 2236 ARQ w/crew TG tfc. (RB)
12521 KLKZ: OMI COLUMBIA 0350 ARQ wkg KBQ(?) w/mci mail. eta el segundo. kbq sez "sea link hawaii aloha". (WT)
12561 UCSA: RTMS Eysk 2235 RTTY in 50/170 C54 report to Novorossiysk Rdo from master KM Bezborodov. DQLL: M/V Sea Excellence 2258 FEC 37,000 DWT containership just launched in 1996, w/"test" transmissions. (RB)
12561.5 UUZU: TKH Vega 2135 RTTY in 50/170 DISP/1 report's to Odessa Radio from master KM Veove. (RB)
12562 UPZF: TK Nikifor Rogov 2214 RTTY 50/170 w/RR admin msg w/agents info for Santiago, Cuba from master KM Silchenkov. (RB)
12562.5 UQTK: TR Ussuriyskiy Zaliv 2123 RTTY 50/170 Ukrainian reefer w/crew TG's. LYAB: TR Narvos Ilanka 2151 RTTY 50/170 Lithuanian reefer,

w/RYRY/DE to LYL, & w/2 crew TG's to same. (RB)
12563 BZ: RTMS Atoll 2120 RTTY in 50/170 crew TG's to Novorossiysk Radio, also aps to send for unid vsl TKH Mavritaniya. (RB)
12563.9 UEYP: TKH Tonya Bondarchuk 0223 RTTY 50/170 w/admin RR TG from master KM Sugak to Murmansk Shipping Co, vsl has cargo of 24,250 MT's of bagged sugar. (RB)
12564.5 UNNI: RTMS Chernyashev 2141 RTTY 50/170 Rybolovnyj Trauler Morilzhnyj (RTMS), or super fishing trawler/super freezer vsl, w/crew TG's to K-grad (KLD/MRH). URAF: TKH Tarkhansk 2147 RTTY 50/170 w/admin TG to Vladivostok Vostmaransflot (VTF) from master KM Ilin, via Moscow Radio, UAT. (RB)
12565 UHLW: BMRT Leonid Novospasskiy 2253 RTTY 50/170 Russian long range/endurance large freezer factory trawler, w/crew TG's using hull#/ID MA-0015 (MRM/KRH) to Murmansk Radio. EMSV: MI-1553 (unid) 2306 RTTY 50/170 w/tfc using hull#/ID MI-1553, name is unknown. (RB)
12566 UZNV: RKTS Konstrukor Koliv 2117 RTTY 50/170 Ukrainian fishing trawler/freezer, w/RYRY/DE to, URL, Sevastopol Radio, & w/admin TG's from master KM Kazurov to Interrybflot IRF MQK, note correct name, not "Konstantin Koliv". (RB) UNSW: TH KAPITAN BURMAKIN 0020 RTTY 50/170 w/tg's. UJEC: NIKON KARDENKO 0715 RTTY 50/170 w/tg's. (WT)
12566.5 EOSJ: TR Granitnyy Bereg 2127 RTTY 50/170 Ukrainian 11,746 DWT reefer, w/revised sailing plans due to bad wx. UAYV: BMRT Aleksandr Gryaznov 2327 RTTY 50/170 Russian long range/endurance large freezer/factory trawler w/RYRY/DE to UIW, Kaliningrad Radio, no joy. (RB)
12569 YLFP: RTMS Misa 1658 RTTY 50/170, Latvian Super Fishing Trawler/Super Freezer vsl w/admin TG for types/tons of fish from master KM Knotsov, using hull#/ID RTMS-7579. (RB)
12571.5 ESMD: RTMS Kormoran 2124 RTTY in 50/170 crew TG's to Tallinn Radio using hull#/ID RTMS 7535/Kormoran, app chg from RTMS Lembit Pern, 4th logging using this name. (RB)
12572.5 UYTB: RTMKS Rybak-1 2153 RTTY 50/170 Ukrainian Super stern ramped fishing trawler/freezer w/admin tfc to Kaliningrad Rybkom Talekseenko from master KMD Solkovev. (RB)
12574 UKCR?: Unid MA-1832 1746 RTTY 50/170 unid trawler using hull#/ID MA-1832 w/crew TG's (MRM/UTF) to Murmansk Radio. UBXS: RTMKS Aleksandr Kosarev 2219 RTTY 50/170 Russian stern ramped super fishing trawler/super freezer w/crew TG's using hull#/ID MA-1806 (MRM/KRH). (RB)
12577.8 NMF: USCG COMSTA Boston 0206 FEC w/broadcast listing DSC frequencies & station address. (DW2) NMF: USCG Boston,Mass UTC? FEC wx (RT2).
12583.5 CBV: VALPARAISO RADIO 2028 CW/SITOR marker "cbv" and tuning burst. (DW)
12587 LZW: VARNA RADIO 2035 ARQ wkg unid ship (c/s lzgx?) then revert to marker "de lzw lzw" (DW)
12593.5 NMN: USCG PORTSMOUTH 2153 CW/SITOR marker "nmn" and tuning burst. (DW)
12597 SPB62: Szczecin Radio 1057 FEC 100/170 tfc list (DG)
12601.5 OXZ: Lyngby Radio, DEN 0025 FEC w/NavArea broadcast times, app end of tfc list. (RB)
12605 LGJ4: ROGALAND RADIO 0708 CW/SITOR marker "lgb tlx" & tuning burst. (DW)
12608 UAT: MOSCOW RADIO 0710 ARQ working ships. tfc list in fec w/arq. qss/qsx frequencies. (DW)
12623 KBQ: UNID 0444 ARQ sending svc msg to ss overseas ohio. logoff w/"msea link hawaii aloha". (WT)
12665 FUM: French Navy Papeete Tahiti 0457 RTTY 75/850 w/call tape. (DW2)
12740 Unid 2230 RTTY 100/850 encrypted msgs separated by ry's & vmgtcnjbh (RM)
12741 MTI: RN Plymouth 2235 RTTY 75/850 w/available ch notice (RM)
12750 NMF: USCG BOSTON 0903 FAX 120/576 various charts. (DW) NMF: USCG Boston 2117 FAX 120/576. 500MB 48HR FCS 2125: 1800 SFC ANALYSIS 2137: 1800 SFC ANALYSIS showing Hurricane Bertha at 22.5N 71W at 1800 UTC w/MAX WIND 100 KT (Gusting) 120 KT MOV 310 DEG 15 KT 2150: satellite photo of No. Atlantic Ocean from Marine Prediction Center/Aviation Weather Center valid 9 JUL 96 at 1745 UTC (Hurricane Bertha was northwest of Cuba with an ill-defined eye 2202: 1800 SFC ANALYSIS (same chart as sent at 2125 UTC 1800 SFC ANALYSIS (same chart as sent

at 2137 UTC (RM)
12818 SAB63: Goeteborg Radio, S 0054 ARQ w/CW ID. (RB) SAB63: Goeteborg R 2305 ARQ. wkg unid ship (RM)
12824 GYU: Royal Navy Gibraltar 0055 RTTY 75/850 availability tape. (RB)
12857.3 6WW: FN Dakar 2310 RTTY 75/850 w/"vvv de 6ww voici testing de la station six whisky whisky ryry sgsg 0123456789 voici le brick geant que j'examine pres du grand wharf k kilo" (RM)
12921.3 MGJ: RN Faslane 2330 RTTY 75/170 Scotland available ch's(RM)
13031.5 FUF French Navy,Martinique 2150 Rtty 75bd/850 French Navy test tape w/id: DE FUF (RHB) FUF: FN Fort de France 2346 RTTY 75/850 MRT "de fuf 1 2 3 4 5 6 7 8 9 10 ryry sgsg"(RM) FUF: French Navy, Fort de France, Martinique 0113 RTTY in 75/850 RYRY's/SG's, & DE. (RB)
13316.7 Egyptian MFA, Cairo 0810 ARQ ATU-80 tfc (MC)
13347.7 Egyptian MFA, Cairo 1645 ARQ ATU-80 MSGs to New York, Washington, & Beijing (MC)
13378.5 IPG20: Italian MFA, Rome 0801 ARQ Tfc received from Embassy Sanaa selcal "VQMP" (MC)
13387.9 LJA20: Norwegian MFA, Oslo 1859 TWINPLEX-1W 100bd/400 News review in Norwegian marked "n o r e g" (MC)
13419 6XM8: 1041 ARQ-E 288/170 BNDVB Bonn w/enc (RM)
13428.4 7RQ20: Algerian MFA, Algiers 0910 COQUELET-8 26.7bd Political NX in FF (MC)
13438.6 DFN43: PIAB, Bonn 1033 FEC-100 96bd/400 NX in EE and GG (MC)
13444 RFQP: Jibuti 1645 ARQ-M2 100/400 FF (GD2)
13446.7 Pakistani Embassy, Kuwait 1538 TWINPLEX-1W 100bd/140 5LGs "fm parep kuwait to foreign isl" (MC)
13459.7 Unid: 1812 UNID 108.9bd/170 UNID FSK system, ACF=32 (MC)
13501.7 British Mil? 1038 RTTY 100bd/850 (1 stopbit), crypto after 16xRY & "vmgtcnjbh" (MC)
13503 Romanian Diplo,??? 1359 ROU-FEC 164.5bd/400 crypto (MC)
13506.7 EGI Tripoli 0100 ARQ w/tfc EGI Cairo til 1100 (ANEE)
13506.7 Egyptian Embassy, Tripoli, Libya 1230 ARQ w/tfc to MFA Cairo. atu-80 msgs (ANEE)
13520 Unid 1727 RTTY 200/500 TP sys (RM)
13540.6 British Mil,??? 1751 PICCOLO-12 crypto (not usual frequency offset). (MC)
13543.7 RFTJD: FF Douala 0720 ARQ-E3 192 idle. (EW)
13550 ZKLF 0311 FAX Auckland Met,New Zealand? Fax ???/??? weak sig not readable (RHB)
13554 Unid: 1658 RS-ARQ 241bd 8 tone (MC)
13556.6 Unid: 1832 TT2300b 100bd idle (MC)
13570.9 DFN57: PIAB, Bonn 1020 FEC-100 96bd/400 News in GG & FF (MC)
13597.4 IMB56: ROME MET 0809 FAX 120/576 upper air chart for europe & n. africa. 4 small chartlets. (DW)
13867.4 French Gendarmerie 1715 ARQ qsy from 13867.5 (ANEE)
13889.7 Egyptian Embassy, Doha 1641 ARQ ATU-80 MSGs and 5LGs to MFA Cairo. (MC)
13894.4 Unid: 1126 RS-ARQ 228.7bd/170 tfc (MC)
13928.6 Unid: 0839 RS-ARQ 228.7bd/160 (MC)
13940.7 UNID: 1649 RTTY 100/425 cont.: e.g. .../111/112/122/212/...;111/... (ANEU)
13941.5 F5O: MFA Tunis 1645 FEC w/tfc to Embassy (O2F), telexes and off-line cipher (ANEE)
13945.6 German Diplo? 1834 ARQ-E 96bd/160 idle (MC)
13947 ROM5: TASHKENT MET 1448 FAX 60/576 end of chart. (DW)
13950 German Diplo? 0707 RS-ARQ 228.7bd/170 tfc (MC)
13956.5 MFA Tunis 1545 FEC tfc to 3 embassies in off-line cipher (ANEE)
13962.2 Unid: 0710 UNID 272.73bd/500 UNID FSK System, ACF=5 or 105, idle. Unid: 0715 362.4bd/500 UNID FSK System, ACF=10 (MC)
13963 HBD 59: Swiss Emb Ankara 5 fgs 1355 ARQ (BVR)
13966.4 UNHCR Baku, Azerbaijan 0745 PACTOR-I1 200 w/tfc to UNHCR Geneva, selcalls (ANEE)
13967.2 Paris, F 0100 FEC GPS time/correction data (ANEE)
13977 HBD20: MFA Berne 1645 ARQ 5 FGS/OTA (DG) HBD20/8: Swiss MFA, Berne 1759 ARQ 5LGs to Embassy Washington "washinam" (MC)
13996.5 STK: Khartoum Air, SDN 1640 RTTY 50/425 RY "QJH HSSSYFYX" (ANEU)
13998 ICRC Geneva 1045 PACTOR-I1 w/tfc UNID outstation, weak (ANEE)
14346.5 RETZCP***: Guardia Civil, Las Palmas 1811 ARQ 100bd/400 MSGs in SS

marked "fm jecor las palmas" (MC)
14365.4 UNO Geneva 1000 PACTOR-I1 200 ckt checks, new freq (ANEE)
14367 BZP54: XINHUA BEIJING 0634 RTTY 75/400 press in EE. poor copy. (DW)
14417 Unid: 1345 RTTY 75bd/500 continuous "yfc/yfc/yfc/yfc..." (MC)
14425.3 Unid 2203 G-Tor 100/200, ASCII Base3 to Lubo, and Rotax and Borax trading connect verifiers, no traffic (ED)
14429.7 Unid: 1201 PICCOLO idling for sev hrs (RM)
14430.9 Unid 2140 G-Tor 100/200, ASCII (upper case) no callsigns, sp. msg. re: permits and a list. ? (ED)
14430.9 Unid: 1201 PICCOLO idling for sev hrs (RM)
14433 Unid 1703 Packet 300/200 5FG's, Pepe & Tito in communications. This net was very active 3 years ago with similar callsigns, Bocu, Sara, always consonant, vowel, consonant, vowel etc., I believe at the time someone ID'ed the net as related to a military training center somewhere in South America. Anyone able to add more details on this...????? (ED)
14438 unid ARQ-E3 96/380 Ops chatting in FF w/"FCN DE >BRN" & wishing each other "BON SOIREE". Off air at 1100, seems a bit early in the day to be saying "Good Evening". (Ed Deasy posted that Kingenfuss's guide has this as the Kerguelen Is..he has logged the signal here on the east coast, but it was far too weak for synch. That's about +3 UTC & not far from Antarctica. They might be "bon soiree" early down there this time of year, they can't be getting more than a few hours of sunlight a day, Ed sez -LOGS)
14447 WJI: SISMI UNDINE 0656 ARQ-E 96/850 4crc. offline encrypted tfc. header "p 22~212z giu 96 (italianfor june is giugno). ends session "ok qrx next ok byby ciao ar va". (DW)
14452 Unid:1447 ARQ idling until 1521 w/weak sig. Begins selcalling XBVP at 1521 then goes to single tone at 1522 and QRT at 1523 (RM) (Ary sez probably Cairo selcalling embassy Rome (XBVP) -LOGS)
14457.5 Unid: 1052 UNID 250bd/140 UNID ARQ System, ACF=75 (MC)
14467.3 DDH8: HAMBURG MET 0833 RTTY 50/400 shipping forecast in GG followed by ID's DDH47/DDH9/DDH8 & freq 147.3/11039/14467.3 (DW)
14474 Russian Diplo,??? 1733 CROWD-36, tfc (MC)
14478 UNHCR, Bukavu 1700 PACTOR-U 100bd/200 MSGs to FF to UNHCR Geneva (MC)
14480 French Diplo,??? 1809 UNID 200bd/400 UNID ARQ System, sounds like. ARQ6-90/98 but won't sync (MC)
14497.5 CSY: Santa Maria Air, AZR 0035 RTTY 50/850 RY (ANEU)
CSY: Santa Maria Air, AZR RTTY 50/850 cct [mca] to sal air tfc, carrier slightly unstable. (DW)
14508 MFA Paris, F 1000 ARQ6-90 100/200 selcalling unid embassy (IPIP) (ANEE)
14509.3 D4B: Amilcar Air,Cape Verde Isl 1907 RTTY 50bd/1000 "ryryry de d4b d4b d4b" drifting TX (MC)
14517 Unid: 1335 RTTY 75/170 w/enc (RM)
14525 UXW***: SOUD Station,??? 1259 RTTY 75bd/500 5LGs to link ID 20076. (MC)
14535.2 RussianMil,??? 1028 MS-5 12 tone vocoder (3300Hz pilot) (MC)
14550.5 MKD: RAF Akrotiri, Cyprus 1739 VFT: 2ch of Piccolo-6, opchat "de mkd werk round our loop mate kkk" (MC)
14550.9 MKD: RAF Akrotiri, Cyprus 1738 VFT: 2ch of Piccolo-6, short crypto messages probably RY loop (MC)
14555 O9B***: French Embassy, Cairo 1056 FEC-100 192bd/400 5LGs to RFGW (French MFA, Paris) (MC)
14573 JANA TRIPOLI 1601 RTTY 50/400 press in arabic (atu70) after marker. (DW)
14593 MTS: RAF PORT STANLEY 1747 VFT/PICCOLO two channel piccolo vft on usb. (DW)
14593 Unid: 1756 VFT/PICCOLO 2 channel vft on usb. chan 1 (+510) idle too weak to sustain constant standby indicator - no apparent tfc. chan2 (+910hz) 6 toneonline encrypted piccolo. (DW)
14593.5 MTS: RAF PORT STANLEY 1750 VFT/PICCOLO 14593.510. chan in vft. idle. eventually faded. (DW)
14593.9 MTS: RAF PORT STANLEY 1748 VFT/PICCOLO 14593.910. 6 tone piccolo chan in vft. online encrypted. (DW)
14621.6 Egyptian MFA, Cairo 1023 ARQ 100bd/170 idle in IRS mode (MC)
14626.7 RFLI: Fort de France UTC? ARQ-E3 192/357 FF de rftj controle de voie and more. (RT2)

14637.9 Unid 2150 G-tor 100/200, connection, "Movil2" to "Base1", no traffic, just connection verifiers. ? (ED) (Ary sez probably Irish Military, -LOGS)
14661 DMK: Bonn 1857 ARQ-E 96/170 MFA Msg to Brazil (GD2)
14664 Unid: 1254/1500 RTTY 50/170 w/enc (RM)
14681 V5G: 1029 ROU-FEC 164.5/400 MFA Bucharest w/circular's. At 1246 w/ ROMPRES nx.(RM)
14692.5 JMJ4: 1338 FAX 120/576 Tokyo Meteo wx chart (RM)
14699 YIX70: INA News, Baghdad 1457 RTTY 50bd/400 NX in Arabic (MC)
14713 Russian Diplo,??? 0741 CROWD-36 (MC)
14719 Unid: 1015 FEC used 'ende' at qtc (ANEE)
14774.4 Unid 1453 TDM 75/170 All 6 TDM ch's enc(RM)
14775.4 Unid 1453 TDM 75/170 All 6 TDM ch's enc(RM)
14781.5 CJL, Mossad, Tel Aviv 1154 RTTY 100b ry's and then "QSA 4", station changes to ARQ-E 96 (ED)
14867.7 Egyptian MFA, Cairo 1652 ARQ ATU-80 MSGs to Embassy Adu Dhabi (kylcys) (MC)
14871.7 Egyptian MFA, Cairo 2009 ARQ ATU-80 MSGs acks from Embassy Muscat (MC)
14873 HGX??: Hungarian Diplo,??? 1545 250bd/850 ARTRAC-II?, ACF=32/176 (MC)
14889.7 Egyptian Embassy, Doha 0823 ARQ ATU-80 MSGs "jg kdmltr" to UNID loc "kdktxke" (MC)
14932 SPP???: Polish Embassy, Tel Aviv 1745 POL-ARQ 100bd/230 5LGs and MSGs to SNN299 marked "m:tel aviv" (MC)
14945.7 Egyptian MFA, Cairo 1041 ARQ ATU-80 MSGs (MC)
14988.2 Russian Mil,??? 1303 MS-5 12 tone vocoder (3300Hz pilot) (MC)
14990.7 Unid 1306 FEC w/vry wk sig. May be EGY diplo because MFA Cairo listed on 14991.7 (RM)
15041.7 MFA Cairo 1400 ARQ Embassies Moscow, Rome w/atu-80 msgs (ANEE)
15046.2 Russian Mil,??? 0705 MS-5 12 tone vocoder (3300Hz pilot) (MC)
15626.6 French Diplo,??? 1103 FEC-100 192bd/400 very weak (MC)
15683.5 IPG20: Italian MFA, Rome 1002 ARQ Clg selcal "VQMP" (Embassy Sanaa). (MC)
15731 SUNA Khartoum 1538 RTTY 50/150 nx items (DG)
SUNA News, Khartoum 1608 RTTY 50bd/140 "in the name of allah suna--------suna ryryryr" (MC)
15733 Unid: 0706 RS-ARQ 228.7bd/170 tfc (MC)
15781 USAF AWS Roosevelt Rds 0000 FAX 120/576 (rt2)
15801.6 Egyptian MFA, Cairo 1006 ARQ ATU-80 MSGs to various embassies (MC)
15801.7 Italian Diplo/Mil,??? 0931 UNID 1200bps FSK UNID System (MC)
15833.2 V5G: MFA Bucharest 1454 ROU-FEC 164/400 diplo tfc (DG)
15835 CJL: Mossad Tel Aviv 1132 RTTY 100/850 testing (DG)
15845 Royal Navy, loc? 0952 RTTY 100bd/850 crypto w/16 RYs & "vmgtcnj" lead-in (MC) Unid 1508 RTTY 100/803 Enc + ry's + vmgtcnjbh (RM)
15860 RFFX: MOD Paris 0920 ARQ-E 72/400 idling (DG)
15862 SWEDISH MFA 1046 SWED-ARQ 100/400 tfc (nx summary?) in swedish signed pressbyraan. 3chb, 9chb, and 22chb. (DW)
15873 P6Z: MOD Paris 0911 FEC-A 192/400 diplo tfc (DG)
15898 RFGW***: French MFA, Paris 0801 FEC-100 192bd/400 5LGs to D7A, H6L, P8C (Addis, Tunis, ???) (MC)
15926.7 Egyptian MFA, Cairo 0954 ARQ ATU-80 MSGs to various embassies (MC)
15946.5 MFA MADRID 1113 TWINPLEX 100 -200/85/85/200. f7b-1. selcals tqmv. brief exchange - offair. (DW)
15968.5 German Mil,??? 1753 VFT: 3ch of 192bd/160/E FEC-100, crypto ending "%%%%%" (MC)
15969.2 Unid 1542 ARQ idling goes QRT at 1700. Past loggings indicate this is PCW1 MFA The Hague. (RM)
15969.5 FUB: FN Paris 0857 RTTY 50/850 testing (DG)
16006.7 Egyptian Embassy,??? 1711 ARQ ATU-80 MSG to MFA Cairo (MC)
16011 SPP???: Polish Embassy, Algiers 1257 POL-ARQ 100bd/250 MSGs in Polish marked "m:algier" (MC)
16020.4 MFA Bonn 0155 RS-ARQ 228.5 cannot decode. (EW)
16030 Unid: 0951 RTTY 75bd/850 NATO CRATT. tfc (MC)
16032 Unid: 0901 ARQ-E 96/200 idling (DG) Italian MFA, Rome 0854 ARQ-E 96bd/170 5LGs relayed from Embassy Warsaw to many Embs. (MC)
16056.5 MFA Rome, I 0915 ARQ selcalling Embassy Sanaa, Yemen (VQMP=Sanaa) (ANEE) IPG20: Italian MFA, Rome 0807 ARQ 5LGs to Tunis, Teheran, Tripoli, Muscat... (MC)

16059 V5G: MFA Bucharest 1105 ROU-FEC 164/400 diplo tfc (DG)
16066.5 ANSA NX 1643 RTTY 50/250 nx items (DG)
IPG20: Italian MFA, Rome 1016 ARQ Acknowledging messages from Embassy Sanaa (MC)
16071.7 MFA Cairo 1101 ARQ diplo tfc (DG) MFA CAIRO 1354 ARQ tfc in atu80, constant mark between bursts. further tfc to embassy bern (yphkg y-----fg). then signoff. (DW)
16091.7 Egyptian Emb: Washington D.C. 1425 ARQ w/ATU-80 tfc from Ambassador, poss relaying for another embassy. (RB)
16102 HBD20/4: Swiss MFA, Berne ARQ 1826 5LGs (MC)
16107 Unid 1557/1948 SWED-ARQ 5LG msg signed ambassaden caracas. SAM12: 2047 SWED-ARQ Swedish Emb. Bogota w/msg. SAM: MFA Stockholm 1601 SWED-ARQ telex to ambassaden santa fe de bogota 1613: telex to caracas (RM)
16118 HBD20/3: Swiss MFA, Berne ARQ 1723 5LGs sign-off with "hbd20/3 +?" (MC)
16125.2 RFQP: FF DJIBOUTI 1511 ARQ-M2 200/400 4crc. two chan tdm. chan a: and b: on betas. ch:a at 1530z cct (qpb) controle de voie svc rfqp de rfqp. (DW)
16128.9 LJA20: Norwegian MFA, Oslo 0718 TWINPLEX-1W 100bd/400 NX in Norwegian to Embassy Dhaka (MC)
16133.1 MFA Paris 0830 ARQ6-90 200 w/tfc unid outstation, qru qtc nil (ANEE)
16143.7 RFLI: FF FT DE FRANCE 1534 ARQ-E3 192/400 8crc. betas. cct [bfl] controle de voie svc rfli de rfli (DW)
16171.7 MFA Cairo 0730 ARQ tfc w/Embassy, Rome (ANEE)
16193.2 RFQP: FF DJIBOUTI 1715 ARQ-M2 200/400 4crc. two chan tdm. intermittent sync. chan a: b: betas. chan:b cct (qpf) controle de voie svc at 1752z rfqp de rfqp. (DW)
16209.9 OZU25: Danish MFA, Copenhagen 0829 TWINPLEX-1N 100bd/400 crypto after "rtlx nn ssswwwssswww" (MC)
16226 RFFXI: FF BANGUI 1304/1655 ARQ-E 72/400 4crc. betas. (DW)
16226.5 RFFXI: FF BANGUI 1803 ARQ-E 72/400 4crc. betas. faded out. (DW)
16236 BGUI***: French Embassy, Bangui 1726 ARQ6-90 200bd/400 5LGs header "ryryry bgix" and "sv dipl de bgui" (MC)
16244 CLP1: 2144 RTTY 50/425 MFA Havana w/tfc to CLP55 (RM)
16260 P6Z***: French MFA, Paris 1801 FEC-100 192bd/400 Calling Embassy Brasilia "s5f de p6z bjr vx" (MC)
16271.6 Egyptian Embassy, Abu Dhabi 1352 ARQ 5LGs to "74" marked "jg kylcys" Egyptian Embassy, Belgrade 1319 ARQ ATU-80 MSGs marked "jg ydqfkm" to MFA Cairo (MC)
16280.2 RFFAAR: 0745 ARQ-M2 200 wkg RFQP, on an hour early today (ANEE)
16281.5 French Diplo,??? 1301 TT2300b 100bd idle (MC)
16296 DFZG***: Serbian MFA, Belgrade 1109 RTTY 75bd/600 crypto after "uuuuuuuu..." (MC)
16304 Unid: 1201 RTTY 75/400 U/I tfc (DG)
16312.5 C37A: MOSSAD TEL AVIV 1348 ARQ-E 288/400 8crc. online encrypted. (DW)
16318.5 7RY40: Algerian Embassy, Conakry 1224 COQUELET-8 26.7bd MSGs in FF to MFA marked "vci off conakry" (MC)
16327.6 Egyptian MFA, Cairo 0907 ARQ Calling Embassy Islamabad selcal "OOVP" (MC)
16327.7 MFA Cairo 1200 ARQ w/tfc Embassy Islamabad til 1315 atu-80 telexes for administration secretary office (ANEE)
16342 Romanian Embassy,??? 1326 ROU-FEC 218.3bd/400 crypto (MC)
16342 V5G***: Romanian MFA, Bucharest 1334 ROU-FEC 164.5bd/400 crypto (MC)
16353 Unid: 0919 RS-ARQ 228.5bd/170 5LGs (MC)
16355 OMZ: Prague 0815 RTTY 100/850 MFA Prague. (GD2)
16391.5 LJN: NY-Alesund Radio 1300 RTTY 50/350 testing (DG)
16457 6XM8***: German Intel, SW Germany 1020 ARQ-E 288bd/200 crypto (MC)
16684 J8GD8: M/V Alina 1620 ARQ w/tlx re improved ETA SW Pass due to better wx, login 23312 J8GD8. (RB)
16685.5 WHML: Coastal Corpus Christi 1627 ARQ tfc for Aruba. (AB2)
16689.5 ELKV3: M/V PACIFIC RUNNER 0038 ARQ w/posn, 1032s 15615w. valparaiso to nagoya. login 24527 elkv3. (WT)
16690.5 ELMR: Tarpon 0001 ARQ obs msg. (AB2) ELSG6: FMG MEXICO 2310 ARQ wkg wlo w/ amver/sp. login 24380 elsg6. J4VE: M/V ROKOS VERGOTTIS 2313 ARQ tlx via wlo login 16761 j4ve. (WT)
16699.5 C6BP9: M/V FOREST HILLS 1645 ARQ w/tlx's login 29496 fhills. (WT)

16705 UERA: TKH Kapitan Bakanov 1444 ARQ w/admin TG from master, KM Eroshkin, login 55707 UERA. ELRI2: M/T Gulf of Paria 1526 ARQ Liberian tanker, w/AMVER/PR, 3157N/04307W, ETA East Hampton. (RB)
16711.5 WSLH: SS MAUI 1657 ARQ w/e-mail. 10724 wslh. (WT)
16713 UIJR: TH KHUDOZHNNIK FEDEROVSKY 0605 ARQ w/obs bbxx. (WT)
16716 YLBF: MV Ivans Kulibins supply list 1509 ARQ (BVR)
16802 J8LU6: TKH Vitaliy Federov 1812 RTTY 50/170 w/crew TG's, listed as a trawler owner by Hafest Marine LTD. UIIE: TKH Vilyam (William) Foster 2234 RTTY w/admin tfc to St Petersburg from master, KM Tofank. (RB)
16898.5 UAT: MOSCOW RADIO 0635 ARQ "rrr444 - error 01" "set conversion on" (?). tfc to ship t/khfaworit/uibt then marker "de uat" and tuning burst. (DW)
16908 TAD: MFA ANKARA 0813 FEC-A 144/850 offline encrypted & Turkish p/l tfc. double spacing. id tad42de tad. (DW)
16930.4 9MR: Navy Johore Baharu, MLA 1311 RTTY 50b w/RYRY. (AI)
16951.5 6WW: FN DAKAR 1215 RTTY 75/400 marker "lettershifts v's de 6ww figs. voici le testing de 6 whiskey whisky qbf kkkk oala kalimero et cie". (DW)
16955 YLQ: RIGA RADIO 1107 CW/SITOR marker "ylq scan auto" and tuning burst. (DW)
16971 JJC: KYODO TOKYO 0648 FAX 60/576 japanese text. small wx chart/forecast showing japan and nw pacific. (DW)
17024 SAB83: GOETEBORG RADIO 1104 ARQ maritex "erererer" string and selcal zdok. (DW)
17122.5 Unid: 0000 RTTY 150/600 unid (rt2).
17139 Unid: 0000 RTTY 100/609 unid encrypted? (rt2).
17147 URL: SEVASTOPOL RADIO 1410 3SC 50/170 tfc in 3sc to rpb wostock. then in cw "nil" and offair. returnto cw marker "de url 16669.5/124_8 kc" (DW)
17441.6 5YE: NAIROBI MET 0957 RTTY 100/850 met tfc. id string "cq de 5ye, and ry's". satellite tropical disturbance summary. (DW)
17445.5 5YE: NAIROBI MET 1008 FAX 120/576 end of wind/temp chart. area africa/indian ocean, further chartsof this type. (DW)
17475 Russian Mil,??? 1001 81-81 40.5bd/500 tfc (MC)
17476.7 Egyptian MFA, Cairo 1217 ARQ ATU-80 MSGs relayed from Embassy Rome (MC)
17550.9 RFTJ: FF DAKAR 1118 ARQ-E3 192/400 8crc. betas. qrm causing intmnt sync. cct [afl] controle de v svc's (rftj de rftj) at 1138 1208 and 1238z & (provence de provence) at 1235z. svc provence de rftj zui lf~010 svc. (DW)
17554.8 Unid: 1253 ARQ-E3 192/400 signal weak. little sync and fading. (DW)
17590 HZN49: JEDDAH MET 1303 RTTY 100/850 met tfc. poor copy. (DW)
17961.7 MFA Cairo 0830 ARQ wkg unid Embassy qtc at 0830 (ANEE)
17962.4 I????: Italian? 0957 ARQ 100bd/400 Opchat in II with CW ID "I????" at sign-off (MC)
18011.7 MFA Cairo? 0800 FEC rpts of -iepuq- (ANEE)
18037.2 MFA Tokyo 1915 ARQ w/tfc to Embassy (Taisha?), Jamaica. Normally this ckt carries Tokyo/Cairo tfc at 1100-1200 (ANEE)
18041.7 MFA Cairo 0830 ARQ w/tfc to Embassy Lome, Togo w/off-line cipher and atu-80 tfc (ANEE)
18049.4 CLP67: Cuban Embassy, Iraq 1744 RTTY 75bd/500 MSGs in SS marked "embacuba iraq" (MC)
18056.7 MFA Cairo 0900 ARQ idle til 0930 (ANEE)
18064 SNN299: MFA Warsaw 1230 POL-ARQ 100/170 diplo tfc (DG)
18156.6 Egyptian MFA, Cairo 1043 ARQ ATU-80 MSGs to various embassies (MC)
18173.5 STK: Khartoum Air 0000 RTTY 24h same old "zczc qjh hsssyfyx" (ANEE)
18180.7 MFA Algiers 0830 COQUELET-8 wkg Embassy Paris (7RQ20) w/call-ups, tfc til 0930 (ANEE) 7RP20: Algerian Emb., Paris 0809 COQUELET 26.7/200 diplo tfc (DG)
18211.7 Egyptian Embassy, Abu Dhabi 1243 ARQ 5LGs and ATU-80 MSGs marked "jg kylcys" (MC)
18230 GFL25: Bracknell Meteo 0806 RTTY 75/400 wx rpts (DG) GFL: Bracknell Met, UK 1912 RTTY 75bd/500 METAR WX for various aerodromes (MC)
18268 HBD20/3: Swiss MFA, Berne 1814 ARQ 5LGs to selcal "BMOX" (Embassy Pretoria) HBD41: Swiss Embassy, Pretoria 1813 ARQ 5LGs to MFA Berne (MC)
18316.7 MFA Cairo 0915 ARQ tfc w/Embassy Algiers (ANEE) Egyptian MFA, Algiers 1210 ARQ MSGs from "kdqikef" (Algiers) (MC)

18325 V5G***: Romanian MFA, Bucharest 0719 ROU-FEC 164.5bd/400 crypto (MC)
18513.9 MFA Oslo 0900 TWINPLEX 100 (arq/f7b) selcalling unid embassy (tpox) (ANEE)
18557.5 C37A***: Israeli Intel, Jerusalem 0920 ARQ-E 288bd/320 crypto w/opchat in 100bd/320 Baudot (MC)
18667.9 MFA Oslo? 0800 TWINPLEX 100 idle, likely MFA Oslo/Copenhagen (ANEE)
18688.1 MFA Stockholm 0930 SWED-ARQ 100 w/tfc to Embassy Algiers (ANEE) SAM: Swedish MFA, Stockholm 1059 SWED-ARQ 100bd/400 5LGs to Cairo. (MC)
18721.7 Egyptian MFA, Cairo 0718 ARQ w/FEC testing with "mfmfmfm" (MC)
18750.5 Unid: 1749 VFT: 2ch of Piccolo-6, eng ch idle (MC)
18750.9 Unid: 1750 VFT: 2ch of Piccolo-6, crypto (MC)
18760 P6Z***: French MFA, Paris 1819 FEC-100 192bd/400 5LGs (MC)
18943.6 Algerian Emb, Dar Es Salaam 1358 COQUELET-8 26.7bd 5FGs to MFA Algiers mkd "vci off dar es salaam" (MC)
19041.7 RFTJ: 1700 ARQ-E3 192 w/tfc to Provence (router?) msg servicing, line checks, 5l substitution cipher (ANEE)
19216.7 RFLI: Fort de France UTC? ARQ-E3 95/384 FF/idle 1channel.(RT2)
19567.7 MFA Cairo 0845 ARQ wkg Embassies Algiers. Also tfc for EGI offices this ckt (ANEE)
19724.6 UIW: Kaliningrad Radio 1626 RTTY 50/200 maritime tfc (DG)
20083 ISX20: ANSA ROME 1210 RTTY 50/215 2khz low. marker "qra de irj21 khz 12108/isx20 khz 20085/isx25 khz 25271.5/isx24 khz 24790/isx22 khz /22955 irf50 khz 8030 ansa roma" and ry's. offair. (DW)
20304.7 MFA Cairo 1000 ARQ wkg Embassy Abu Dhabi atu-80 msgs (ANEE) Egyptian MFA, Cairo 0958 ARQ ATU-80 tfc (MC)
20386 Unid: 1015 USB unid african (liberia?), used 'roger' (ANEE)
22389.5 NMN: USCG CAMSLANT Chesapeake, Va, US 1457 ARQ w/sitor free signal, CW ID "NMN". (RB)
22403 WLO: Mobile Marine Radio, 1459 ARQ Al, US w/sitor free signal, CW ID. (RB)
22412 WLO: Mobile Marine Radio, 1500 ARQ Al, US w/sitor free signal, CW ID. (RB)

=MARITIME=

410 9HFM4: mv Corelli 0706 CW DF activities (AB)
444.5 PCH: Scheveningen Radio, HOL 1852 CW Tfc list (AB)
447.5 LGQ: Rogaland Radio, NOR 1000 CW Tfc list (AB)
449 OXZ: Lyngby Radio, DNK 0925 CW wx (AB)
1866 Hebrides Radio 1902 USB Wx & traffic list (SM)
1883 Portpatrick Radio 1902 USB Wx & traffic list (SM)
2182 EIP: Shannon Air, IRL 2004 USB rdo ck w/Valentia Radio. (AI) (now that's one station you don't find on 2182 often! -LOGS) GND: Stonehaven Radio, G 0055 USB r/c w/UNID (J8FW4 ?) (ANEU) Rome Radio: 0945 USB "Securite" bcst in EE & Italian. (DES)
2791 Cullercoats Radio 1902 USB Wx & traffic list. (SM)
3077 UNID: 0010 USB EE read "press news" ('items 8', etc.)abt philippines inner-politics - home news for phil. troops in ex Yugoslavia?? (are there any?) or nx to phil. sailors. ??after items ended a lot of stns cfm the reception (RSP,RTC,MC,etc.) in a phil. language (?) & EE mix /the 0000z-News often hrd & 0135z ATB w/RTB, GTC, ARL, RJJ, FCP, CG etc., use NATO/ICAO spelling, - hrd this net nearly daily, Calls are 2 or 3 letters - PSE HELP ! (ANEU) (this is just another format of the maritime relay of DZJ Manila news from the Philippines by Filipino crewed ships. Frequently logged in FEC (see 6301.5 under digital logs), also ARQ & CW...and now voice! -LOGS)
3185 YLQ: Riga Radio, LVA 1840 CW id,tfc to unid (ANEU)
3190 USU: Mariupol Radio, UKR CW 0000 "CQ de UTW/USU", tfc list (ANEU)
3730 LYL: Klaipeda R, LTU CW 2152 de-mkr "QSX:8351.5/12423.5/6292.5/2516 kHz" (ANEU) LYL: Klaipeda Radio 2200 RTTY 50/200 maritime TFC (DG)
4071 LAEB2: Sovereign of the Seas 0115 USB wkg WOM ch 403. ELLY4: Ocean Breeze 0214 USB wkg WOM ch 403 (HW2)
4092 ELOU5: Zenith 0131 USB wkg WOM ch 410 (HW2)
4113 3EWJ9: Imagination 0134 USB wkg WOM ch 417. ELJV7: Nordic Empress 0227 wkg WOM ch 417 (HW2)
4131 3ESE9: Sensation 0021 USB wkg WOM ch 423. LAOI4: Majesty of the Seas 0216 USB wkg WOM ch 423. HOOG: Dolphin IV 2336 USB wkg WOM ch 423. LAMU4: Monarch of the Seas 2337 USB wkg WOM ch 423. C6LW2: Regal

Empress 0104 USB wkg WOM ch 423 (HW2) 3ESE9: M/S Sensation 0345 USB Carnival Cruise Lines 70,367 GWT cruiseship, clg/wkg WOM for R/T tfc. (RB)
4191.5 LYIM: 1810 CW clg LYL, no QSO (ANEU) (TSM Okhotino -LOGS)
4209 FFT St.Lys Radio, F 0450 ARQ CW id (ANEU)
4294 WNU31: Slidell La UTC? CW qsx 31 wpm. (RT2)
4310 WNU41: Slidell La UTC? cw qsx. (RT2)
4331 WCC: Chatham Radio,MA 0322 CW Marine id tape w/id: V V V DE WCC QSX 4 6 8 12 16 22 MHZ DE WCC K (RHB)
4387 WOO: 1600 USB Ocean Gate R. NJ w/tfc list using computerized voice. (RM)
5101.5 DAN: Norddeich Radio, D 1827 CW cq-mkr, spurious/harmonic ??= (ANEU)
5226.5 DAN: Norddeich Radio, D 1835 CW cq-mkr, spurious/harmonic ??= (ANEU)
6230 Galas Radio? 0522 USB wkg unid ship. (AI)
6382.2 EAD: Madrid Radio, Spain 0401 CW w/traffic list. (RB)
6507 VIK: Vladivostok 1040 USB Wx report in EE for the area (AW) (Vladivostok is UFL, all the VIx stations are Australian, but no VIK -LOGS)
6510 PNK: Jayapura radio, INS 0845 USB pp to unid vsl in Indonesian (AW)
6513 Halifax CG Radio 0135 USB traffic list announcement. (KW2)
6678 N/A: M/V Magnolia 0259 USB clg the Sandra O'Toole after chatting w/unid vsl on this out-of-band freq. (RB)
7863.5 SPW: Warsaw Radio, POL 1700 CW mkr-"de SPW QSX 8408.0 kHz AZIM01", next marker "..AZIM02", etc. 1530z de/QSX-mkr, but QSX 8407,0 kHz. 1837z de/QSX-mkr now QSX 8398.5 kHz (ANEU) SPW: Warsaw 1630 CW Warsaw radio QSX (GD2)
7865 SPW?: Warsaw Radio ??, POL? 1840 USB f Polish, but QRM by SPW in CW. (ANEU) SPW: 0449 USB Warsaw R. YL w r/t comms in Polish. (RM)
8110 Unid yachts 1145 USB chatting about what regattas they'd attended and will attend (TB)
8120 Unid boats 1201 USB w/heavy Caribbean accents w/EE comms (TB)
8176 Unid: Aus. coaststation with wx 0538 USB (BVR)
8200 Unid: German intership comms 0519 USB simplex (BVR)
8222 EFTE: 2215 USB SS w/Madrid R. on Ch.810 QSX 8746 kHz (ANEU) ELFT8: Celebration 0027 USB wkg WOM ch 805 (HW2)
8255 IBDF: 1435 USB EE clg Rogaland R, on Ch.821, Clg Fq., QSX 8779. (ANEU)
8260 UNID: 1745 EE sx ment: Beirut, "Captain Dimiti", SIMPLEX !, bandplan-OK?, both saying always standby here (ANEU)
8270 J8LG6: 1755 USB wkg Doha R./A7D, on Ch.826 QSX 8794 (ANEU)
8346 UMFA: 1545 CW clg UBO3 (who is UBO3 ?) (ANEU)
8351 TCHR: 2200 CW id, w/UNID (ANEU) (TCHR is M/V Kilitbahir -LOGS)
8366.3 UJXM: 1753 CW clg UNID (UO??), not exact on ship clg ch.2 (group I) (ANEU)
8366.5 4JIV: 1745 CW clg UON? on ship clg ch.2 (group I) (ANEU)
8369 J8IB8: 1555 CW clg UNID (XSG?) on ship clg ch.4 (common ch.) (ANEU) (M/V Xing Li -LOGS)
8369.5 URFT: 1405 CW clg UFN Novorossijsk Radio on ship clg ch.8 (group III) (ANEU)
8370.5 P3FT6: 1840 CW clg UNID on ship clg ch.10 (group IV) (ANEU)
8389.8 HLJ: Seoul, S. Korea 1241 CW w/CQ DE HLJ marker. (AB2) (odd place for them! -LOGS)
8470 XFL: Mazatlan Raido, MEX 0000 CW qsb 1547z (rt2).
8505 UFZ: Vladivostok, RUS 1222 CW w/DE UFZ marker. (AB2)
8515 5AT: Tripoli UTC? CW 5at&vvv markers(RT2)
8525 WNU33: slidell, LA 0000 CW qsx 4/6/8/12/16/22 obs?.(rt2)
8534 WLO: Mobile, AL 0000 CW qsx 4/6/8/12/16/22 amvers. (rt2)
8558.4 KFS: San Fran, CA 0000 CW qsx 4/6/8/12/16 (rt2).
8589 HPP Panama Intermar,Panama 0038 CW Marine id tape w/id: DE HPP HPP HPP (RHB)
8598 OXZ4 Lyngby Radio ,Denmark 0035 CW Tfc list w/id: DE OXZ2 weak garbled (RHB)
8607 VIM: Melbourne Radio, AUS 0621 CW w/CQ marker. (AI)
8630 WCC Chatham Radio ,MA,USA 0023 CW Marine id tape w/id: DE WCC QSX 4 6 8 12 MHZ rpt's (RHB)
8682 EAD3 Madrid Radio ,Spain 0042 CW Mairne cw id tape: DE EAD3/EDX4. (RHB) EAD3/44: Madrid Spain UTC? RTTY cw qsx (RT2)
8682.2 ??? Unid CW sta Unid tfc list (RHB) (probably EAD on 8682, UTC?

-LOGS)
8691 XST: Qingdao Radio, CHN 1806 CW w/CQ marker. (AI)
8694 PJC Curacao Radio ,Ndlnds Antilles 0044 CW Marine id tape w/id: CQ DE PJC... (RHB)
8704 SVB4: Athens UTC? CW lots of qrn (RT2)
8746 WOM Pennsuco R ,FL,USA 0053 USB voice Marine female op wkg unid ship for pp no ans on shore (RHB)
8764 Unid: 0409 USB An alpha/numeric message & request to please contact on channel 1224. I'm listening on 4, 8, and 12 Mhz...I could not make out his callsign or ID. (LB2) (probably Portishead Radio, as they also use Ch.1224 -13146.0 -LOGS)
8788 SPC42: Gdynia Radio, POL 0100 USB w/tfc list, then in EE "all ships, all ships this is Gdynia radio listening 824 please". (RB)
8794 PCG41: Schevenigen radio pp 1816 USB (BVR)
8803 FJA: Mahine radio Tahiti 1100 USB pp unid vsl in Tahitian. J4SC 0717 USB wkg "Sydney radio" w/marine comm's. (AW)
8812 TAH: Istanbul radio pp 1802 USB (BVR)
12233 9HLSG: 1505 USB gives posn rpt of 21N/110W to KMI (RM) (probably 9HLS3, M/V Seamagic II -LOGS)
12356 unid UTC? USB qso 2om in russian ?? (RT2)
12660 WLO Mobile Ala UTC? CW wkg P3EJ4 (m/t ohio) qso, etc (RT2)
12673.5 CLA: Havana Cuba UTC? CW qsw 20/32/41 ch1217 (RT2)
12695.5 KFS: Palo Alto Radio, Ca 0047 CW w/CQ/QSX marker. (RB)
12710 VWB: Bombay Radio, IND 1627 CW w/V marker, wx. (AI)
12711 HCG: Guayaquil Radio, EQA 2100 CW w/CQ marker. (AI)
12727.5 LGJ: Rogaland Radio, NOR 0050 CW w/tfc list. (RB)
LGJ: Rogaland R 2246 CW. CQ/QTC marker (RM)
12736.5 TAH: Istanbul R 2238 CW. w/"de tah tah tfc list as" marker (RM)
12748 IRM: CIRM Rome 2250 CW w/"vvv vvv vvv irm irm irm free radio medical service and amver service on 8/12/16/22 mhz common k" marker (RM)
12801 TAH: Istanbul R 2300 CW. begins tfc list (RM)
12808.5 KPH: San Francisco R, Ca 0053 CW w/CQ marker (RB)
12826.5 WNU: Slidell Radio, La, US 0058 CW w/tfc list. (RB)
12830.7 XFM: Manzanllo Radio, MEX 0059 CW w/CQ marker. (RB)
12835.5 GKB2: Portishead Radio, G 0100 CW w/tfc list. (RB)
12847 WCC: Chatham Radio, Ma, US 0104 CW QSX marker. (RB)
12876 VAI: CCG, Vancouver CG Rdo 0105 CW BC, Canada w/CQ/QSX marker. (RB)
VAI: CCG Vancouver BC 2318 CW CAN cq/qsx marker (RM)
12879.5 WSC: Tuckerton R. NJ 2319 CW w/"...by this worldwide radio network. Contact WLO WSC or KLB. CQ de WSC nw hr tfc list at 2318GMT=(RM)
12886.5 WLO: Mobile Marine Radio 0106 CW w/end of nx b/cast, CQ, & tfc list marker. (RB)
12887.5 EAD44: Madrid R 2323 CW de/qsx marker. (RM)
12912.6 FFL6: ST. Lys Radio 1053 CW cq (DG)
FFL6: St. Lys R 2325 CW cq/qsx marker(RM)
12917 KLB: Seattle Radio, WA, US 0108 CW w/marker. (RB)
12992 WLO Mobile Radio,AL,USA 0246 CW Marine id tape: DE WLO OBS? AMVERS? QSX 4 6 8 12 22 MHZ NW ANS. (RHB)
13002 KPH: San Francisco R, Ca 0111 CW w/QSX marker. (RB)
KPH: San Francisco, CA, US 0306 CW Marine id tape: VVV DE KPH (RHB)
13022 SPE63: Szczecin R 2337 CW. POL de/qsx marker(RM)
13033.5 WCC: Chatham Radio, Ma, US 0114 CW QSX marker. (RB)
13042.5 PJC: Curacao Radio, ATN 0115 CW w/CQ/QSX marker. (RB)
13076.7 HZG: Dammam R 2349 CW. ARS de/qsx marker. (RM)
13122 Unid: 0108 USB unknown Asian female voice, suspect marine comm's.(AW) (maritime ch.1216, both Singapore rdo & Taipei rdo here -LOGS)
13134 SPO61: Szczecin Radio, Poland 2153 USB w/conclusion of R/T tfc w/unid vsl, ID, "this is Szczecin Radio". (RB)
16916.5 WSC: Tuckerton Radio, NJ, US 1328 CW w/CQ marker. (AI)
16942.5 9AR: RIJEKA RADIO 1812 CW marker "vvv de 9ar 3/5/7 ch 3/4/7 k", at 1204 w/qtc list. (DW)
16945 XVG: Haiphong Radio, VTN 1303 CW w/tfc list. (AI)
16948.5 VCS: CCG HALIFAX 1209 CW marker "vvv cq de vcs qsx 6 8 12 and 16 mhz. chnl 3/4/7/8". (DW)
16966 SVB6: ATHENS RADIO 1814 CW marker "de svb4/5/6/7 qsx 22 ch 5". (changes band and channel periodically). (DW)
16972 WCC: CHATHAM RADIO 1819 CW marker "vvv de wcc qsx 4 6 8 12 16 22 mhz de wcc k". (DW)

16974 SPE81: SZCZECIN RADIO 1822 CW end of qso with ship. marker "de spe41/spe81 qsx 8367.7 12551.716735.7". (DW)
16981.5 SVG6: ATHENS RADIO 1825 CW marker "de svg6". (DW)
17008.5 TAH: ISTANBUL RADIO 0634 CW marker "de tah ch3 4 8 qru?" wkg ship. (DW)
17037 YQI6: CONSTANTA RADIO 1113 CW sending tfc to/fm ship at 30wpm then signoff. (DW)
17073.9 LGX: ROGALAND RADIO 1300 CW marker "cq de lgw lgb lgj lgx tfc for elpt5/tx j8ll7 = qsx 41858368.5 12552.5 16736.5 and lgq/lgt 500 khz. (DW)
17091 XSQ: GUANGZHOU RADIO 1308 CW marker "cq de xsq k". (DW)
17094.8 SVA6: ATHENS RADIO 1313 CW bdcast - press in greek? difficult to copy due qrm. (DW)
17115 UGC: ST PETERSBURG RADIO 1237 CW marker "de ugc qsx 6/8/12/16 k".(DW)
17138 LYL: KLAIPEDA RADIO 1330 CW marker "de lyl qsx 22270.5/16672.5/ 12442.5/6292.5/4191.5 khz k" (DW)
17141 UFN: NOVOROSSIYSK RADIO 1403 CW qtc list then blind tfc broadcast? (DW)
17143.6 DAN: NORDDEICH RADIO 1408 CW marker "cq de dan 4cg 8cg 16cg k" (DW)
17146.6 CBV: Playa Ancha Zonal Radio, CHL 1433 CW w/CQ marker. (AI) (the station calls themselves Valparaiso Radio -LOGS)
17160.8 IAR: ROME RADIO 1354 CW wx in EE for mediterranean. (DW)
17162 PPO: OLINDA RADIO 1752 CW marker, just identifiable. (DW)
17175.2 A9M: BAHRAIN RADIO 1730 CW marker "cq de a9m qsx ch 4/5/6 k". (DW)
17177 URK9: Kertch Radio, URK 0900 CW w/CQ marker. (AI)
17184.8 KFS: San Fran, CA 0000 CW qsx 4/6/8/12/16/22 (rt2).
17188 SVD6: ATHENS RADIO 1732 CW marker "de svd6". (DW)
17194.8 PPR: RIO DE JANEIRO RADIO 1353 CW marker "vvv de ppr qsx 16 mhz k". (DW)
17198.3 HZG: DAMMAM RADIO 1736 CW marker "de hzg qsx ch 3/4/9" (DW)
17198.9 PCH60: SCHEVENINGEN RADIO 1739 CW marker "de pch60 16 k". (DW)
17214 SPH81: Gdynia Radio 0820 CW cq (DG)
17232.9 9VG53: SINGAPORE RADIO 1741 CW marker "cq de 9vg53/17232.9 khz qsx 16. mhz ch 2 3 4 5 8 10 qsx 16mhz ch 2 3 4 5 8 10". (DW)
17239.7 PKX: DJKARTA RADIO 1358 CW marker "cq de pkx qru? ar". (DW)
22487 WLO: Mobile Marine Radio 1501 CW w/traffic list. (RB)

=MILITARY=

119.5 SXA: GNy Piraeus (GRC) 0115 V-mkr (ANEU)
122.3 OUA: Danish Marine (DNK) 0115 CW iii-mkr, see 2357.5 (ANEU)
2207 PAES: Hrms Zeevakkel ww Noordwijk 1000 USB radio (BVR)
2261 RAF tracking net 1803 USB. Bucchan + others. At 1854 unid Green Comms. (SM)
2357.5 OUA32: Danish Marine Stevns (DNK) 0050 CW iii-mkr: "III de OVK BCST X21C OUA25/38 BCST .... OUA23/32 ... III ZKR OVK14 23 ....", NAWS (ANEU)
2667.5 FDG: FAF Bordeaux (F) 1855 CW v-mkr (ANEU)
2680 4XZ: INy Haifa (ISR) 0035 CW v-mkr (ANEU)
2801 4XZ: INy Haifa (ISR) 0150 CW v-mkr (ANEU)
2815 IDR8: INy Rome (I) 0145 CW v-mkr (ANEU) IDR8: IN ROME 2304 CW marker "vvv vvv vvv idr8" (DW)
2828 FDG: FAF Bordeaux (F) 0145 CW v-mkr (ANEU)
3116 DHJ59: Wilhelmshaven Naval, 0308 USB Germany wkg unid German Navy vsl w/RTTY coordination. (RB)
3134 NIGHTWATCH 01 0657 USB briefly wkg WAR46 on probable ZULU 110. They then moved back to ZULU 145 (5705.0). (JH)
3182 FDG: FAF Bordeaux (F): 0030 CW v-mkr (ANEU)
3191 'OS' (Oscar Sierra), UNID NATO mil. net: 2355 EE w/B1U, M5J, R0X (plane background sound?), item-styl-msgs, OS is net-ctrl & 1748z S8B w/UNID (FF accent), ment: Montenegro, "items" (item a:Laila, etc.), see 6882. (ANEU)
3295 NIGHTWATCH 01 0656 USB briefly wkg WAR46 on probable ZULU 120. NW01 moved WAR46 to ZULU 110. (JH)
3379.5 FDI22: FAF qth? (F) 1830 CW V-mkr (ANEU)
3651.5 SXA32: GNy Piraeus (GRC) 0225 CW v-mkr (ANEU)
3678 SXH32: GNy Piraeus (GRC) 0225 CW v-mkr (ANEU)
3685 SXA: GNy Piraeus (GRC) 0225 CW v-mkr (ANEU)
3712 SXA33: GNy Piraeus (GRC) 0225 CW v-mkr (ANEU)

3787 FDE14: FAF but where (F) 1500 CW v-mkr (ANEU)
3795 FFB: Boulogne s/M Radio, F 1845 USB f Bull. EE/FF, id (ANEU)
3814.5 FDG: FAF Bordeaux (F) 2130 CW v-mkr (ANEU)
3886.5 AEM1JQ: MARS Unid, D 0802 USB wkg AEM1BJR. AEM1ZLB: MARS Unid, D 0804 USB wkg AEM1BJR. (AI)
3933 RAF Neatishead, G 0951 USB wkg 2LR. (AI)
3942 MS (Mike Sierra) unid: 1850 USB FF sx w/PI (Papa India), ment: "Ocean Atlantique Est", French Navy Net ?, see 8162 kHz (ANEU)
4083 Spanish Navy 2000 USB w/tfc RN and JT. Msg abt death of mother-in-law of officer (ANEE)
4120 Ascot 1319 USB Architect (C-130, XV208) dep Boscombe Down 1245/55 eta 30w ...., eta St John's 2045/55 selcal AJDM, standard relay .. + YQXKORR (BH)
4154.5 IHMM: Italian Navy ship- Milazzo 2133 USB Wkg ICT. IHML: Italian Navy ship- Lerici. 2104 USB Wkg ICT. DRKN: Gny ship Spessart 2119 USB Wkg DHJ59. (IB)
4168.5 IGJ: INy Augusta (I) 0030 USB II/EE sx, id "IGJ", w/IGDD (sometimes id as DD)& IHGB ?, etc. (ANEU)
4214 IDR2: INy Rome (I) 0240 CW v-mkr (ANEU) IDR2: IN ROME 2307 CW marker "vvv vvv vvv idr2" (DW)
4227 SXA: GNy Piraeus (GRC) 0225 CW v-mkr (ANEU)
IGJ42: IN AUGUSTA 2246 RTTY 100/850 marker"igj41/igj42/igj43 /" (DW)
4350 TBB57: TNy Ankara (TUR) 1950 CW VVV-TBDJ-mkr (ANEU)
4426 NMG: USCG CommSta New Orleans, La, US 0527 USB wkg ELEK7, M/V Tellina re to contact PLEAD Control on 5080 USB. (RB)
4443.5 "90 Bravo" 0406 USB clg "30" w/no response. Then "Yankee 78" wkg "Yankee 79". Admin type chatter re: fuel consumption, etc. Mentioned "Sierra 30". "90 Bravo" 0410 USB wkg "30". Talked about doing sweeps & "watch RSL" (???). "Sierra 10" 0412 USB wkg "Yankee 78". (PJ) Unid daily 1400/1600 USB calls are generally "Sierra xx". This morning a radio check had a comment from Sierra 90 to Sierra 109 mentioning taking something back to "battalion". YL (Charlie Charlie) 0116 USB trying to establish comms w/321 ops. (PP)
4466 KEYSTONE 17: Pa CAP Wing 2115 USB as NCS of Pennsylvania Civil Air Patrol net. (RB)
4495 NIGHTWATCH 01 0655 USB briefly wkg WAR46 on probable ZULU 125. NW01 moved WAR46 to ZULU 120. Unid 0706 USB callsigned station (could not make out call) with 26-character EAM, picked up on GHFS at 0709. (JH)
4550.7 TBU5: unid TNy stn (TUR) 0200 CW V-mkr TBDJ QAP (ANEU)
4700 CFH: Halifax Military, NS, 0317 USB CAN wkg S1G w/latest actual's CYHZ/CYZX. (RB) CHR: 0423 USB CF Trenton ON w/terminal forecasts (RM)
4715 MVU(?) RAF Volmet: 1700 & 0135 USB m EE machine voice Volmet.(ANEU) Royal AF Volmet 0149 USB wx obsv. (KW2)
4731 MKL RAF Pitreavie (G) 1705 CW WX & 4IF de MKL (Dwx to 4IF ?) (ANEU) MKL: RAF Edinburgh 0703 CW cq (DG)
4742 9JP 1318 USB Architect (Nimrod?) confirm off task details are passed to the appropriate agencies/people: affirmative. U1G34 1932 Architect (Chinook HC.2, 7 Sq. RAF) relay to Lifter Ops: "BA", request St. Mawgan wx. U1G34 2134 USB relay to Lifter Ops: "BD" 2220 local, please call St Mawgan air traffic control and tell them we'll QSY enrt 2220 local. SON 819 USB Architect (Nimrod?) wx ENEV (Evenes, Norway) -> 5714 (no joy) (BH) IFN80: 1735 USB returning to Lynham. ETA 2000/05. std rly K. TARTAN12 1749 USB wkg ARCHITECT. SELCAL chk EF AD. VC-10. (SM)
4745 NIGHTWATCH 01 0254 USB works SYLLABUS on self-id'd ZULU 135. NIGHTWATCH 01 0416 USB wkg MACDILL. (JH)
4958 'Tamboo' (USAF tac.?) 2315 USB m EE wkg UNID (ANEU)
5064 9MB: MNy Georgetown, Penang ? (MLA) 1725 CW "VVV 9MB 13/16/19"(ANEU)
5146 'Carmen 06' UNID sx Net (ex YUG?) mil.?: 1725 USB m/f OPs slavian lang., 1730z 'Capitan 12' clg 'Skopje 06' (ANEU)
5151.5 UNID: 2025 USB sx Czech/Slovak?, ment:"telegram", coded msg (5LG's). (ANEU)
5213 RMP: RNy Kaliningrad (RUS): 2315 CW QTC (wx?) to RKZ, often ment.: "Punkt","Tire","Nawip" & 1 time: "Adriactic.." (ANEU)
5255.5 FDG: FAF Bordeaux (F) 1440 CW v-mkr (ANEU)
5272 Unid USCG?: 0229 USB w/heavy ANDVT tfc, this is a known USCG freq, may have been related to "PANTHER" comms heard same night. (RB)

5320 CG Group 4: 0038 USB wkg Cutter Point Ward search mission HH60 from Elizabeth City to join in morning. (KW2) NOY8 CGGP Corpus Christie, TX, USA 2102 USB voice Marine USCG (RHB)
5342 FDY: FAF Orleans (F) 1240 & 2045z CW v-mkr (ANEU)
5400 NRUF: USCGC Mohawk (WMEC-913) 0740 USB wkg NABS: USCGC Attu (WPB-1317), NPBB: USCGC Block Island (WPB-1344), NRKA: USCGC Manitou (WPB-1302), NHPX: USCGC Nunivac (WPB-1306), and NJEH: USCGC Vashon (WPB-1308) during hurricane sortie for Hurricane Bertha after QSY from 5696. NMN: CAMSLANT Chesapeake 0340 USB wkg 1719 re: available a/c, also USCGC Mohawk wkg NMN. (PE)
5446.5 FDC: FAF Metz (F) 2045 CW v-mkr (ANEU)
5680 Karup Rescue, DNK 0855 USB radio ck w/Sweden Air Rescue. (AI) Rescue 125: 2357 USB wkg Cambridge Rescue radio check, station answered but couldn't copy one another advised to try 3023. (KW2) Rescue 11 1705 USB wkg Kinloss Rescue. RTB ETA 1805/15. (SM)
5692 RESCUE 1501: USCG HC-130 0436 USB wkg NMN re pp D-5, passes info re rescue of both survivors from the sloop Javelin by cargo ship M/V Ursa Major, who had responded via a AMVER call after a EPIRB check revealed 2 PIW. (RB)
5696 CAMSLANT Chesapeake: 0031 USB wkg 6001 then 6002. Both afct very weak & barely audible. (DES) Rescue 1701: 0502 USB wkg USCGC CHASE (WHEC-718) who accepts radio guard for 1701 & req endurance (10 hours) & POB (7), then adv 1701 that he would be launching PLAYMATE in 2.5 hours due to distance from shore. CAMSPAC Point Reyes 0500 USB wkg USCG Helo 6016. COMSTA Kodiak 0540 USB working USCG Helo 6024. 6024 reported being on final approach to Cordova Alaska. NOJ: KODIAK COMSTA, AK 0528 USB wkg Rescue 6024 who was enrt to a SAR. QTH for 6024 at 0528: 6015N 14651W. Rescue 2112: 0549 USB USCG HU-25A wkg CAMSLANT Chesapeake. CAMSLANT assumed guard at 0550. 2122 airborne out of Opa Locka (Miami).QTH at 0629 2739N 07959W. Guard secured at 0647. 1711: 0600 USB USCG HC-130H7 wkg CAMSLANT w/routine flight & posn report. Aircraft active out of CGAS Clearwater. 6002: 0600 USB USCG HH-60J wkg CAMSLANT w/routine flight & posn report, a/c active out of CGAS Elizabeth City QTH at 0700 3502N 07704W. ETA at Elizabeth City 0330 local (0730 UTC) QTH at 0730: 3558N 07632W. Rescue 1707: 0616 USB HC-130H7 clg KODIAK COMSTA. Airborne at 0630 from Elmendorf AFB enrt to Bristol Bay. CAMSPAC Point Reyes assumed guard at 0630. QTH at 0730 5832N 148?22W. (DW2) Westhampton Rescue: 1420 USB Wkg CAMSLANT Radio ck - loud & clear (AFRes rescue unit on Long Island NY?). Y6R: 1508 USB Wkg CAMSLANT Accepting guard, advised using coded station location bearing & distance from when reporting in until secure equipment is operational. CG 2126: 1430 USB wkg CAMSLANT Posn Rpt 4123N 6005W. CG 2126: 1446 USB wkg CAMSLANT Securing Guard at HomePlate. CG 1712: 1802 USB wkg CAMSLANT Posn Rpt 4065N 6005W. CAMSLANT: 1806 USB wkg CG 6009 pp Atlantic Area Cmd Center, search area coordination. CG1712: 1812 USB wkg CAMSLANT securing guard, landing Providence. CAMSLANT: 1832 USB clg CG 6009 no joy. Boston: 1837 USB clg CG6009 no joy. CG Group Detroit: 1837 USB clg CG6025 no joy. CG Helo Rescue 6034: 0010 USB wkg CAMSLANT accepting guard - on rescue mission. CG 1711: 0058 USB 0040 wkg CAMSLANT posn rpt 44 01N 66 30W. Y9N: 1219 USB wkg CAMSLANT request/accept guard. (KW2) USCG San Juan 0159 USB wkg vsl Jacksonville & patching them through to Camslant. Rescue 1712 was in contact with a ship in distress & req the vsl assist. USCG cutter was enrt but would take up to 2 hours to get there. CAMSPAC 0430 USB wkg Rescue 1602 for posn report. 1711 0404 USB wkg CAMSLANT w/posn report & asking them to call Clearwater Ops and inform them of their 0220 Local landing time. CAMSPAC 0138 USB wkg/Cutter Mohawk and several others. Cutter Long Island, Cutter Vashon and Cutter Manitou. All reporting posns. CamsPac fairly strong here in Mi and several cutters barely heard and a few not heard at all. (LB2) (this probably was CAMSLANT (NMN, Va) vice CAMSPAC (NMC, Ca) -LOGS) CG 2107 2031 USB reporting flight ops normal to CAMSLANT CHESAPEAKE. CAMSLANT CHESAPEAKE 2034 USB conducting a radio check w/CG RESCUE 6002. CG 6002 2319 USB securing guard with Camslant Chesapeake (MF2) AMC 452: Unid USAF 0235 USB clg "Portsmouth global" for a radio ck, CAMSLANT answers, 452 then tests xmitter #2. NCRG: USCGC Courageous 0315 USB (WMEC-622) clg the M/V Jacksonville, who was up here coordinating

w/CG re SAR w/unid vsl they were responding to. RESCUE 1501: USCG HC-130 0410 USB wkg "3Q", unid naval vsl enrt to area of a SAR relaying an ETA of 4-1/2 hrs to RESCUE 1503. At 0415 a SITREP is given reporting M/V Ursa Major is alongside the life raft. Ltr report confirmed rescue of two persons from 40' sloop Javelin which had capsized. RESCUE 1500: USCG HC-130 0444 USB wkg NMN w/pp LANT Area command who requests the 1500 proceed 31-52.2N/54-09.7W re an ELT activation, ETA of the 1500 was 0645z. (RB) Coast Guard Rescue 2126 0537 USB w/pp District One Command center via Camslant Chesapeake ref flares sighted. (SF)

5700 ABNORMAL 10: 0514 USB, moving to 15793 (BWS) NIGHTWATCH 01 0155 USB up w/WAR46 among others at 2240 I have Italian tfc on 8716 once again...Italian AF ....Bosnia related? (JC5)

5705 PBV: Air Force Valkenburg, HOL 0826 USB wkg Z3E. (AI)

5705 NIGHTWATCH 01 (male opr) 0453 USB w/26-character EAM: VL6NAJ..., then clg station that sounded like SKYCHIEF. At 0457z, NIGHTWATCH 01 clg WAR46, & finally raising same at 0459z. At 0654z, NIGHTWATCH 01 worked WAR46, & moved WAR46 to ZULU 125. Back up on freq at 0702z. At 0804z, station that sounds like SKYCHIEF up with 26-character EAM (VL4BIN...), //5705 & at least 8968. NIGHTWATCH 01 0447 USB w/EAM, trailing the GHFS bcst of same. At 0452z, REDEEMER worked NIGHTWATCH 01. At 0715z, NIGHTWATCH 01 worked CORNSTALK. AT 0831z, NIGHTWATCH 01 worked CORNSTALK and WAR46. WAR46 0453 USB worked NIGHTWATCH 01. Freq made primary for net. At 0454z, NIGHTWATCH 01 called and worked MOTORIST. At 0456z, GOALPOST worked NIGHTWATCH 01, & then they moved to ZULU 130 (not found by me, but found later in evening by Jeff Jones to be 4472.0) At 0515z, NIGHTWATCH 01 works MOTORIST; then MOTORIST (probable USN asset) works GOALPOST. (JH)

5708 3RO unid: 2145 USB m FF sx w/unid f "Visibilite horizontale Zero". (ANEU)

5716.5 FDG: FAF Bordeaux (F) 2050 CW v-mkr (ANEU)

5763 Turkish Navy 1600 USB tactical net (CK)

5800 WAR46 0128 USB wkg NIGHTWATCH 01 on self-id'd ZULU 150. JONATHON 0202 USB clg NIGHTWATCH 01 for a radio check. (JH)

5804.5 FDC: FAF Metz 1720 CW cq (DG)

6318 IDR3: IN ROME 2310 CW marker "vvv vvv vvv idr3" (DW)

6501 NMN: CAMSLANT Chesapeake 1025 USB wx report to area (AW)

6513 NPCR: USCGC Dallas (WHEC-716) 0252 USB wkg NMF, CommSta Boston, for morale pp. (RB)

6683 AF2 0449 USB wkg Andrews w/rdo chk, both had each other loud & clear (EG) SAM 376 0353 USB wkg ANDREWS for wx... SAM 376 not readable w/ good sig from ANDREWS.... female operator heard on freq....LAJES? (JC5) ANDREWS 1438 USB wkg AIRFORCE ONE w/ANDVT & clear comms. (JH) Andrews wkrg PP for SAM 050 to Andrews meteo (MF2)

6694 CFH Halifax Military, NS (CAN): 0150 USB EE w/RESCUE 306 selcal-check FM-GJ (ANEU) Rescue 306: CanForces a/c 0704 USB wkg Halifax Military w/pp RCC re locating parties on the ground, RCC adv 306 to pass to them that the RCMP was enrt, ETA 1 hr, & that 306 was off task. (RB)

6712 ANDREWS 0630 USB w/26-character EAM string, first broadcast by OFFUTT at 0530z (first attempted at 0528z but disregarded for a FOXTROT broadcast that OFFUTT first tried to send prefixed w/FAIRLY, then disregarded to resend without the "FAIRLY"). This string also repeated by ELMENDORF at 0540z. ANDREWS 0630 USB w/a 20-character EAM (VL3ESH...) at ANDREWS' post 0600z h+30 "repeat" EAM transmission time. COTAM 2474: 0740 USB From Landivisiau to Grazzanise crew 5 55 pax 3.7 tons cargo squadron "Franche-Comte" aircraft. COTAM 3955: 0750 USB From Bordeaux to Lorient. COTAM 1822: 0800 USB from Nancy-Essay to Orleans crew 5 2pax 1.6 tons cargo. FNY 53D1: 0830 USB Nord 262AEN from 56S (Nimes) from Inverness to Bergen. FNY 53E2: 0840 USB Nord 262AEN from 56S (Nimes) from Bergen to Aberdeen. IFD 04: 0900 USB from Istres to Sarajevo crew 8 55 pax 9.7 tons cargo. COTAM 3715: 1430 USB from Bucarest to Sofia RON. not 100% sure of the flight N the rest yes. (JP2) Andrews with 26 character alpha-numeric EAM. Followed by Sky King Sky King do not answer then a 3 char. code w/time & a 2 letter authentication code. At 2:49 UTC (LB2)

6715 NIGHTWATCH 01 1340 USB attempted to work ELMENDORF. HICKAM 1340 USB worked PACCOM 01. JONATHON 0502 USB called NIGHTWATCH 01 for a signal check; nothing heard, so back to 9016.0. JONATHON moved here after

NIGHTWATCH 01 told him to move to ZULU 160, and he was found here instantly. Presumed ZULU 160, although no freq designator used during the brief comm. (JH) Halifax military 0004 USB clg CHARLIE NINER JULIET, nothing heard (MF2)
6719.4 L6R 0030 USB reporting to HABITAT, "ops normal for L6R and B2D." (JJ)
6720 OWD: AF Vaerlose, DNK 1000 USB wkg unid. (AI)
6721.5 2HA UNID NATO/US Military Net: 1955 USB EE sx m w/UNID & 0203z USB 3WI w/O7G & 0000z A6E (?) w/UNID weak (ANEU)
6722 NATO 1815 USB Link-11 support network (CK)
6730 SAM 026 1348 USB wkg Andrews w/pp to Travis Ops. (LB2) SAM 29000: 1138. USB wkg Andrews on self ID'ed F267 at Made 267 pri & F064 (11214) secondary. With secure/plain voice traffic.(LVH) Andrews 1903 USB wkrg PP for ACSEND 375 to Andrews meteo (MF2) SAM 275 1723 wkg Andrews. (MJ) AIR FORCE 1: 1929 USB wkg Andrews w/test count, into ANDVT. (RB)
6739 Incirlik GHFS (TUR) 2150 USB m w/84 char EAM. Architect (G) 2200z w/UK Forecast fr 2200-2300z (ANEU) ARCHITECT 0400 USB w/ RAF Base wx ann into LI w/good signal. (JC5) ELMENDORF 0521 USB w/26-character EAM at ELMENDORF's h+21 "repeat" EAM transmission time. At 0530z, OFFUTT w/26-character EAM. At 0540z, ELMENDORF w/both strings at ELMENDORF's h+40 "repeat" EAM transmission time. NIGHTWATCH 01 0640 USB clg MAINSAIL & raising ELMENDORF. Both moved to 6715.0. Back up on freq at 0648z. (JH) CHORE 21: 0307 USB wkg Lajes pp with 4580. Lajes: 0108 USB EAM Skyking BFG. REACH 2 Victor 3: 0208 USB wkg Lajes pp Lajes metro wx for 0630Z arrival. Incirlik 0113 USB EAM VLD76D7... REACH 709: 0115 USB wkg McClellan(?) radio ck. Incirlik 0133 USB EAM VLLZNCY..... (KW2) CG 1719 0016 USB w/pp re hurricane & something about a Thursday evening time frame. Terminated the patch and was wished a good flight by the female op. (LB2) 1VA: 0521 USB any station this net, answered by Thule GHFS. 1VA asked TRULY (sic) for pp to COMSUBRON 8 at a 564 DSN #. pp initiated at 0523 1VA on the surface ETA Chesapeake light 0530 local. Claimed to have attempted tfc on HF net but no joy. 1VA asked COMSUBRON8 to QSL via KG-84 net. Elmendorf Global: 0545 USB w/an all-freq req for Adak Navy line-maintenance. Multiple calls over a 10 minute period no-joy. Probably related to a strong earthquake which occurred in the Aleutian Islands chain close to the island of Adak a short time prior to Elmendorf's calls. (TT)
6739.5 FDC: 0507 CW French Air Force Metz w/channel marker (DW2)
6754 CHR: CF Trenton Military, ONT (CAN): 0130 USB Volmet m EE fr Canadian Airports: Trenton etc., id (ANEU) CHR: Trenton Military, Ont 0523 USB w/Volmet wx for various Canadian cities, wx actuals, to 0527. (RB)
6757 NIGHTWATCH 01 (female opr; "whine" on her signal) 0117 USB wkg ____BUG (could not make out the call - maybe JUNEBUG or maybe not); w/___BUG having NIGHTWATCH 01 place a pp to common DSN 339 number (VQ4 OPCON). Pp was unsuccessful (broken and distorted on NIGHTWATCH 01's part.) At 0220z, NIGHTWATCH 01 worked SYLLABUS; again worked SYLLABUS at 0253z. At 0435z, NIGHTWATCH 01 broadcasts at 26 character EAM. At 0438z, NIGHTWATCH 01 calls WAR46. JONATHON 0036 USB worked NIGHTWATCH 01, but JONATHON had NW01 as very weak. (JH)
6761 SIERRA 61: 0740 USB wkg unid. callsign. (BWS) GOLD 76/65/66/78/75: 2210 USB various comms, talking about a/r times and rendezvous. A/R track 6 is mentioned. GOLD 76 is on the ground at Moron. (JP2)
6779 DRAG: Kriegship Rommel clg DHJ 59 1429 USB radiocheck. DRAN: Kriegship Augsburg clg DHJ 59 1217 USB radiocheck. DRAE: Kriegship Lutjens clg DHJ 59 1244 USB for rdo ck no joy. DRFN: Kriegship Ensdorf clg DHJ 59 1302 USB for radiocheck (BVR) DRDS: U-25 1937 USB Wkg DHJ59. (IB)
6818 F20 1235 USB wkg F10B sending a message in RTTY...after the msg was done F10B replied that the vehicle belongs to ____ Squadron and that he should bring it right over. An obviously annoyed F20 told 10B to watch his COMSEC & use callsigns, not names. Both units had Scottish accents. (TB)
6820 ARIA CONTROL: 0414 USB calling ARIA1 for tracking support toward Pegasus/TOMS launch, (KS)
6830 SPAR 19 1917 USB wkg Andrews radio checks on 867U. Noisy so QSY to 561u (11.052 thanks to the most recent list!). (GT)
6830 SPAR 19 1917 USB wkg Andrews radio checks on 867U. Noisy so QSY to

561u (11.052 thanks to the most recent list!). (GT)
6844.5 FDC: FAF Metz (F) 1955 CW v-mkr (ANEU) FDC: FAF Metz 1651 CW cq (DG)
6860 FDC: FAF Metz (F) 0920 CW v-mkr also on 6861.0 (ANEU) FDC (French AF) 0620 USB, VVV marker (CK)
6873.5 FDG: FAF Bordeaux (F) 0100 CW v-mkr (ANEU)
6993 ANDREWS 0108 USB working SAM 28000 in clear voice & ANDVT. Mentioned use of "311" (11220, but nothing heard here.) At 0146z, SAM 28000 was on the ground, in the blocks. Suspect that this was backup a/c to SAM 29000/AF1 (28000 was maybe located in area code 513 area) (JH)
7473 FDC (French AF) 0621 CW VVV marker (CK)
7535 SESEF NORFOLK 1849 USB conducting radio testing with the Arleigh Burke (MF2) NDVW: USS Nashville (LPD-13) 1337 USB w/test of HF xmitters. NGGD: USS Mississippi 1450 USB (CGN-40) w/test of 1 xmitter. NNKP: USS Kearsarge (LHD-3) 1743 USB w/HF xmitter testing. (RB) USS TICONDEROGA 1300 USB wkg SESEF Norfolk testing their emitters. Had gone through 7 of 'em by the time I signed off (TB)
7752 FDC: FAF Metz (F) 0900 CW v-mkr (ANEU)
7765 KING 1: USAF HC-130 Rescue a/c 1436 USB wkg DoD Cape reporting on station for the launch of Space Shuttle Columbia on mission STS-78. NJJT: USS Taylor (FFG-50) 1444 USB wkg DoD Cape w/status of launch of STS-78. (RB)
7788 FDI22: FAF but where? (F) 1845 CW v-mkr (bad mixed, sometime id as FFI22) (ANEU) FDI22: French Air Force, Aix 2031 CW "vvv vvv vvv de fdi22 ar" marker (MC)
7805 FDI8UR: 1800 CW FAF (GD2)
7831 NIGHTWATCH 01 0254 USB worked SYLLABUS on self-id'd ZULU 170. (JH) NIGHTWATCH 01 1509 USB wkg _____BUG, and then moving them to ZULU 185 (presumed 9809). READYMAN (sounds like) 1503 USB called and worked NIGHTWATCH 01 for a signal check. (JH)
7834 FDC: Metz 1645 CW FAF (GD2)
7835.5 FDC: FAF Metz (F) 1840 CW v-mkr (ANEU)
7850 FDI: 0440 CW FAF Aix vvv vvv vvv de FDI 8 ar(RM)
7860 FDI22: 1650 CW FAF (GD2)
7900 Unid: 0535 USB 2 OM in SS sounded like mil. (RM)
7909 Unid: 0125 USB ANDVT tfc for hours. (RB)
8032 Andrews 1401 USB wkg SAM 206, 206 informed Travis via pp that they were 50 miles N. of Kansas temp -53 39000 feet winds 180 @ 023.(LB2)
8094.5 FDC: FAF Metz (F) 1730 CW v-mkr (ANEU)
8122 Darwin Control ww unid Aus 1610 USB navy ship. Canberra control 1613 USB clg hmas Dubbo (A4). VLRL: Hmas Dubbo 1618 USB ww Darwin control Canberra control 0427 USB ww unid aus navy ship "Your figures are..." (BVR)
8162 MS (Mike Sierra) unid French (Navy?) net : 1930 USB sx FF m w/UO (Uniform Oscar), passing telephone nr's, msgs ment.: Marine Paris, Mincoop Paris, Minafetran Paris, Marine Toulon, Centinsrepara Paris, Defence Paris, etc. 1940 PI (Papa India) w/MS, see 3942 kHz (ANEU)
8297 AAEF: USAV LTG William B. Bunker 0522 USB wkg AAFA w/posn. AAFA: USAV SP4 James A. Loux 0524 USB wkg AAC2. AAC2: U.S. Army Fort Eustis, Va, USA 0524 USB wkg AAFA. (AI) ADMW: USAV Malvern Hill (LCU-2025) 2331 USB clg/wkg AAC2, harbormaster at Ft Eustis, Va for radio ck on ch.5. (RB)
8302.5 IGJ: INy Augusta (I) 1715 USB II/EE w/"HBA" (3DIHBA?),id "Augusta". 1434z IAOB (UNID INy Vessel) w/IGJ (id also: OB, GJ) fr r/c then switch to DATA/FSK (8304.5 kHz, 100Bd?-Speed/Shift 850Hz, coded). 1520z IGJ w/IATB, w/IATC (vessel names?), fone-coordination fr DATA-msgs, nearly daily hrd. (ANEU)
8310 0EO (Zero Echo Oscar) UNID NATO mil.? net: 1545 USB sx EE w/C3P, switch to a vy quick DATA transmission (UNID RTTY? Sys), fone fr coordination. 1555z 0EO clg C2P (Charly Two Papa) "nothing heard, out". (ANEU)
8335.5 DHJ59 GNy Wilhelmshafen, D 1730 this is f0, the fone-USB-coordination freq., DATA/VFT channels are on 8336.79, 8337.47, 8338.15 kHz, shift 170Hz, coded msg to GNy Vessels (ANEU) DRDR: U-24 1706 USB Wkg DHJ59. DRHJ: Elbe A-511 1712 USB Wkg DHJ59. (IB)
8968 SAM 676 0011 USB Lajes (E-4B 73-1676) freq still busy with Reach G5, -> 6739 (Lajes still drifting) -> 15016 (both a/c and Lajes weak here) commercial pp, nothing heard. (BH) REACH 0158 0339 USB self-id'd as C-141 wkg pp w/Lajes. Location 3030N 10208W enrt KFAT,

Fresno Terminal w/quick turn around to Travis AFB. pp placed to DSN 949-9155 Fresno ANGB GRIFFIN OPS (DW2) Orca 22 (KC10) 0420 USB pp to Travis CP req flying in their pattern 2200-0000. GASSER 91 0400 USB pp via Hickam (EG) ELMENDORF 0540 USB w/26-character EAM at ELMENDORF's h+40 "repeat" EAM transmission time. Of interest, the string was taken from OFFUTT's 0458z GHFS broadcast of same. ELMENDORF did not use a more recent string broadcast by OFFUTT at 0533z. (JH) Hickam: 0841 USB EAM Skyking msg 2EG.(KW2) Hickam: 0848 USB wkg p/p SALTY DOG. HARBOR 22: 0215 USB wkg Elmendorf pp 872-XXXX broke down. JAWS 52: 0219 USB wkg Elmendorf p/p 875-XXXX ops matters. REACH 574: 1107 clg Lajes no joy. Andrews 1142 USB Skyking EAM -- 5G4. McClellan 1142 USB Skyking EAM -- 5G4.(KW2) Andrews 2327 USB conducting a maintaince test. (LB2) NAVY LIMA NOVEMBER 45 INDIA 1907 USB clg Mainsail,Offut answers w/no reply from NLN45I (MF2) DUSTY DOG 1856 USB wkg LAJES for a PP to Norfolk Phone Operator.Lajes could not provide patch at this time. DUSTY DOG 1856 USB wkg LAJES for a pp to Norfolk Phone Operator. Lajes could not provide patch at this time. (SM)

8970 1SN 1200 USB wkg 6FI w/radio checks in clear & green (TB)

8971 FALCON 01 1858 USB passing RTB (1930) time to BLUESTAR. FALCON 01 1922 USB reporting to BLUESTAR that due to low fuel state they will be refueling at Roosevelt Rds. TRIDENT 703 giving his ETA to BLUESTAR to WHISKY 9 GOLF,BLUESTAR then popped up on the net and confirmed. 7 ECHO GULF 1832 USB is being informed that FALCON 01 is now up on the freq (7EG has a british accent). FIDDLE and SPANGLE 712 1840 USB discussing whether to refuel at Pensacola (MF2) 9AW: 1451 USB passing local wx to (FIGHTING TIGER) 720. 9AW then asked 720 if they were JELLO capable & response was negative. Stations switched to primary UHF channel & at 1455Z 9AW contacted 9MS & adv that FIGHTING TIGER 720 was under the control of 9AW. 9MS will pass info to GOLDENHAWK. 1511Z CARDFILE 711 wkg 9QA adv 711 on the deck. 1520Z 9AW asked FIGHTING TIGER 720 to rise up above FL20 (2000') so 9AW & 720 could maintain UHF voice/data (Link-11) comms. 720 will comply after doing a VID visual ID on an item of interest (TT).

8974 FALCON-69 0550 USB wkg RAAF Sydney RAAF F-111, it's a dead give away w/his oxy mask giving a muffled sound. Not a common user of HF are the F-111s. Kiwi-842 0559 USB wkg Air Force Auckland Nothing from AFA Air Force Sydney, Townsville, & Darwin all on this net at this time. Trojan-071 2341 USB wkg RAAF Darwin A-97-159. STALION-010 8974 USB wkg RAAF Sydney LPBH 36 sqd C-130H ATO-010. BRONCO-534 8974 USB wkg RAAF Townsville Opp's normal call Caribou transport. Shepherd-138 0049 USB wkg RAAF Townsville P-3 Orion 10 sqd. ENVOY-603 0050 USB wkg RAAF Townsville Falcon-900 34 sqd VIP flight. Stalion-004 0055 USB RAAF Darwin A97-001 C-130H 36 Sqd Richmond. Reach-6E7 0208 USB To RAAF re: pp. (SB)

8983 CAMSLANT 1833 USB wkg pp for YANKEE 1 GULF to Miami air station. (MF2)

8992 Ascension: 1842 USB Clg Nightwatch. NW answers but Ascension can't hear. QSY to 14635. NW stronger but nothing from Ascension. (DES) NIGHTWATCH 01 0250 USB (she's id'ing herself as NIGHTWATCH ONE) wkg MACDILL briefly. (JH) MacDill: 2040 USB EAM msg -YL read alpha numerics very slow. (KW2) Offutt: 0159 USB EAM VLLCY2. //8968.... (KW2) 2VM: 1133 USB wkg MacDill pp 564-XXXX -- exercise Esteem Alpha traffic. UTAH 61: 1412 USB calling MacDill no joy. (KW2) King 52 2301 USB wkg MacDill w/pp, received patch to air base for a Wx report. Unid '001' 0138 USB wkg/MacDill w/pp to Andrews. Macdill could not raise Andrews. 001 requested McGuire for Wx at 0600 Zulu for Andrews and McGuire..McGuire read off the forecast for both fields and 001 then terminated the patch at 1:49 (LB2) Ascension 2315 USB w/pp for REACH 0177 to Casino (MF2) Navy XY3Z 2013 USB wkg MacDill GHFS: pp to Autovon #942-3560 & Eagle Duty. IDed as "Eagle 932" during pp. (TO)

9014 HAWK 87 2210 USB wkg RAYMOND 07 getting pp to DSN 461 number (RAYMOND 37), with lots of chatter re "buying time". (JH)

9016 Billhawk 0225 USB clg Nightwatch on "Zulu 175 upper"...no joy (GH) India Romeo Mike GORILLA 0045 USB wkg MacDill w/ pp to DSN.... MacDill asks to "stand by" IRM GORILLA says "Request pp NOW!" MacDill replies w/ "stand by". MacDill 0100 USB wkg ARMAMENT....

ARMAMENT passes short msg to McDill about some sort of cancellation. MacDill ack, & mentions that there are equipment problems at MacDill. (JC5) TINHORN 1338 USB wkg NIGHTWATCH 01 on Z-175. MACDILL 0330 USB wkg APPOINTEE. At 0347z, MACDILL wkg NIGHTWATCH 01 in voice & data. At 0416z, MACDILL moved NW01 to 4745. HARDLUCK 1332 USB wkg ABSORBENT, w/HARDLUCK entering the net through the challenge process. HARDLUCK immediately going monitor only for "2+00" hours. At 1339z, HICKAM works PACCOM 01, & moves him to 6715. JONATHON 0001 USB worked NIGHTWATCH 01 for a radio check at various times throughout the local night. At 0318z, MONGOOSE worked NIGHTWATCH 01 and requested to enter the net. When the went through the challenge process, they were using 3-character sets instead of 2-character sets. MONGOOSE did not find NIGHTWATCH's single character response to be correct, but when the challenge was attempted again with the same 3-character set, NIGHTWATCH 01 responded w/the same single character, and this time the response was accepted. They were having a slight problem w/something obviously new, maybe effective utc 01 Jul 96. At 0506z, NIGHTWATCH 01 moved JONATHON to ZULU 160. NIGHTWATCH 01 0211 USB clg LASTDATE. NIGHTWATCH 01 0255 USB called GOALPOST, then called WAR46. (JH) MacDill 1553 clg PACCOM 01 no joy. (MJ) PACOM 01: C135C 61-2668 1546 USB w/CINCPAC on board, wkg Andrews VIP reporting on deck & terminating services. (RB)

9017 SAM 206 1338 USB wkg ANDREWS. (JH) AIR FORCE 1 0242 USB w/pp, told whoever at the end of the patch that if Andrews called tell them we are shut down & at the Hanger. (LB2) SAM 206 1700 wkg Andrews w/pp to San Juan IAP...en route from Port Au Prince. (MJ)

9031 ASCOT 1338: RAF Northolt a/c 1015 USB wkg ARCHITECT. (AI)

9057 TINHORN 1339 USB wkg NIGHTWATCH 01 on self-id'd Z-180. ROUGHGEM 1918 USB worked NIGHTWATCH 01, who makes ZULU 180 (9057) the primary freq. NIGHTWATCH 01 1418 USB clg PALMLEAF (who had been heard earlier on 11175) w/no response. GRANVILLE (sounds like) works NIGHTWATCH 01, & enters the net. They then quickly moved to 10204 & finally 7831. At 1645z, PALMLEAF clg NIGHTWATCH 01, & the challenge process was heard (maybe he was entering the net.) At 1653z, GRANVILLE (sounds like) worked PALMLEAF. (JH)

9106 At 1519z, ABSORBENT clg HARDLUCK, then HICKAM up on freq wkg PACCOM 01. At 1545z, HICKAM worked SAM 974 (enrt to Thailand), providing pp's (suspect that ANDREWS was heavily tasked with President's trip to France.) (JH)

9218 SAM 049: SAM26000: USB wkg Andy here on self ID'ed F-868. Looks like they have made this their primary with F-064 secondary. (LVH)

9809 Unid 1511 USB Net player w/"test, 1,2,3." and gone. Probable ZULU 185 (NIGHTWATCH 01 had just requested a move from 7831.0 to ZULU 185, & this was found within seconds.) (JH)

10204 BILLHAWK: 0239 USB wkg Nightwatch on Z190. (BZ) NIGHTWATCH & MESSKIT 0411 USB checks on "Z190". Went secure. (GG) TINHORN 1340 USB wkg NIGHTWATCH 01 on Z-190, and enters the net; immediately goes monitor only for 1.5 hours. NIGHTWATCH 01 advises him to use Z-190 and Z-210 (11229). NIGHTWATCH 01 0133 USB wkg PRESCOTT, who complains about "modem modes" interference on freq (a harsh, strong buzz heard here.) At 0137z NIGHTWATCH 01 worked MONOGRAM who went monitor only. Unid 0114 USB Unid station (could not make out weak call) clg NIGHTWATCH. WAR46 1350 USB calling NIGHTWATCH 01. At 1530z, OPALRING (USN trained opr) raises NIGHTWATCH 01 and enters the net through the challenge process. Immediately into ANDVT comms. At 1646z, a weak station (could not make out id) works OPALRING, & enters the net via the challenge process with OPALRING. Adv that there was no current traffic in the queue. At 1720z, NIGHTWATCH 01 clg ____ and WAR46; but raises OPALRING. At 1726z, ROUGHGEM works NIGHTWATCH 01 & enters the net. At 1731z, ROUGHGEM works BRIMSTONE (maybe station that enter the net at 1646) and requests a "T-quad." ANDVT comms at 1736z. At 1750z, ROUGHGEM works OPALRING and requests a data check. Moved to ZULU 205 (11494.0). At 1911z, NIGHTWATCH 01 w/26-character EAM (VL2KUE...), & then wkg OPALRING who acknowledges traffic. String picked up by OFFUTT on GHFS at 1914z. At 1915z, OPALRING had to relay (rebroadcast) this string to ROUGHGEM. At 1917z, NIGHTWATCH 01 popped up on freq and requested that OPALRING advise ROUGHGEM to move to ZULU 180. GRANVILLE (sounds like) 1654 USB clg NIGHTWATCH 01.

NIGHTWATCH net 1525 USB active with weak players. At 1631z, NIGHTWATCH 01 up with 34-character EAM: PC?6SZ..., then he worked WAR46. NIGHTWATCH 01 0037 USB worked LASTDATE in clear voice & ANDVT. At 0140z, NIGHTWATCH 01 worked WAR46. At 0210z, NIGHTWATCH 01 worked LASTDATE & req he "switch to alternate frequency" (turned out to be 9016) for radio check. At 0322z, TOMTHUMB enters the net, and he had another problem w/the new process. NIGHTWATCH 01 remarked that he had the same experience "yesterday." At 0434z, NIGHTWATCH 01 clg LASTDATE and TOMTHUMB. At 0453z, NIGHTWATCH 01 w/an EAM. At 0522z, NIGHTWATCH 01 calls LASTDATE and TOMTHUMB. At 1238z, NIGHTWATCH 01 called TOMTHUMB w/no response. At 1457z, READYMAN (sounds like) called NIGHTWATCH 01. WAR46 1605 USB calling NIGHTWATCH 01 for radio check. NIGHTWATCH 01 (weak) 1605 USB with what sounded like two EAMs, one long (maybe) and one 26-characters in length. Weak NIGHTWATCH net 0254 USB activity, maybe involving QUICKRUN (or sounds like). Callsigned station up at 0304 with 20-character EAM. NIGHTWATCH 01 1528 USB called JAILBAIT, then worked WAR46 for a signal check. (JH) LANDFALL 2005 USB calling any station this net on Z-190 (No joy.) and gone. (JJ)

10390 Spanish Military 0830 USB talk abt a turbo being overcharged & malfunctioning-AF? (ANEE)

10711 NDVW: USS Nashville (LPD-13) 1408 USB att to raise SESEF Norfolk re some sort of data test. (RB)

11052 SPAR 19 1934 USB Rdo cks w/Andrews on 561u. arrived LERT (Rota NAS Spain) 1623z departed 1900z eta KMCF (MacDill) 0305z.1958z. '19 wants to know when SAM 375 comes up on Mystic Star 2036z. SAM 375 is on 101u (not known but see later) which Andrews said was 'a higher freq' 2047z. Andrews trying to set-up a link between SPAR 19 (on 561u) & SAM 375 (on 101u). '19 asked if they should QSY to 101u but Andrews said that they would find a lower freq where they could both go to. Andrews said to try 310u (another unknown!) but '19 said to ask '375 if they had 'mux capability' (GT) PACOM 01 1845 USB working Andrews AFB on F-561 with signal checks for possible primary freq. (JJ)

11053 Andrews VIP 2051 USB wkrg S/C for SAM 974 (MF2) SAM 202 1544 wkg Andrews. (MJ) 801: 2029 USB w/pp via Andrews AFB to ??? who told 801 that he was flying a Baltimore-Dulles-Charlottesville route at 58000 feet recording thunderstorm activity. There were numerous hellcats in these thunderstorms reported ??? to 801 moving at a speed of 25 to 30 knots. At 2130 Andrews told 801 that it was experiencing heavy rain high wind and lightning and was on a tornado watch. Andrews also reported that its AWS experienced a power failure due to storms in the area and was not operating. (RM)

11056 Unid: 0815 USB USAF acft - (8)73 with Gander Ops and Comms Ctr, inquiry to DAO (ANEE)

11059 SAM 201 working Andrews VIP. QSYed 13.960 (F396) SAM 201 having problem with SATCOM. They are uplinking on CH10 and downlinking on CH9. Encryption is bad (will not decode) and are testing in the clear with Andrews VIP. Female a/c commander is saying she is using 1000 watts into the uplink. (JB)

11118 IFO 35: 1511 USB closing down for the night (JP2)

11153.6 GOLF 12905 USB calling any station this net for a radio check (no joy). (JJ)

11175 SAM 26000 1737 USB w/Ascension. Offutt, USA 1836 USB EAM UPJBRG. Reach 3291 2249 USB w/Andrews, pp Howard Metro (AB) JHAWK 51: 1659 USB tfc w/Tinker AFB Op's via Hickam. REACH 0268: 1706 USB pp tfc w/HILDA via Elmendorf. NAVY LL46: 2322 USB wkg Offutt w/ETA Moffett NAS. (AB2) Magic 57 1947 USB Croughton (E-3) pp PMSV, wx. Reach 4W6 1559 USB Ascension several pp, enrt to Ramstein. Gordo 12 2227 USB Ascension (E-4) pp Andrews PMSV wx Andrews 2330. Reach 60163 2050 USB MacDill (C-141B, 66-0163) pp Ramstein PMSV wx GOOY (Dakar) and FZAA (Kinshasa,Zaire), also req. sunrise/sunset times for Kinshasa. pp Hilda East discussing the recovery of the aircraft out Zaire. Catbird 1348 USB Croughton (VP-3A CINCLANT). Herky 116 1350 USB Croughton (2 x C-130) pp Aviano base ops, DSN 632-7634/7635: flight of 2 C-130's, other a/c c/s HERKY 305, eta 1500, both A1, 2:15 hours ground time to upload heavy army equipment, 3rd a/c HERKY 117 will arrive 45 min to 1 HR late. pp Aviano PMSV wx 1500 (thunderstorms), pirep: C-130, fl190, abt 50 mile south-west Lake Garda. Herky 302 1358 USB

Croughton (C-130). Reach 90021 1120 USB Croughton (C-5A 69-0021) pp Ramstein PMSV, pirep: C-5 49n 05.20W fl330. Reach 638 1524 USB Incirlik (C-141B 65-0242) tempting to make this one 40638, but he gave 50242 as tailnumber. pp Hilda East: C-141 tailnr. 50242, etb OTBD (Doha Intl., Qatar) 1910, A1. Before departure out of LEMO (Moron) the flight meals taken off the a/c somehow, req something to eat for 8 crew at Doha. pp Hilda PMSV, wx OTBD 1910, pirep: C-141 fl330 29.27n 22.20e. Reach 8R7 1532 USB Ascension/Mainsail no joy, he got so desperate he even tried good old 11176! Bone 13 1252 USB Croughton (3 x B-1B, 28 BW) pp Raymond 33 (Ellsworth): air refuelling complete 1222, all 3 aircraft in the green, eta 2115Z. SAM 974 2044 USB Ascension (C-137C, 85-6974) ->354 upper (Andrews). Reach 85 1301 USB Croughton (C-130)pp Ramstein PMSV wx ETAR 1600, pirep: C-130 46.30n 10.03w fl190. Reach 8227 1305 USB Croughton (C-141B, 65-0224) pp Hilda East: tailnr. 50224, dep LHBP (Budapest) 1255 eta EFHK (Helsinki) 1520, delay due pilot's altimeter. Navy LK26S 1940 USB Ascension (P-3C VP26) radio check. SAM 26000 2138 USB Croughton (C-137C, 62-6000)-> 15016 (nothing heard) (BH) HAWK 89 1632 USB B-1B Lancer clg MAINSAIL w/no joy. DOOM 02 1430 USB B-52G w/ MacDill wkg pp with 96th Bomb(?) Squadron Scheduling. KILO 05 1644 USB w/ MacDill attempting to set up a pp w/the Weather Channel. KILO 05 was wkg the tropical depression located off the coast of Florida. Requested a collect-call pp. QSY: 11217. RAKED MAN 1710 USB wkg MacDill w/a request to set up a secure HF data link. QSY: 13242 with data link & comms checks. C/S spelt using phonetics. (DW2) Reach 60146 0011 USB a C141 clg Denali, wkg Elmendorf metro. Offutt 0023 USB w/DECENT Sky King msg, YTN 23 BH. Shark 15 0028 USB wkg Lobo, ops normal, also Shark 13 & Anderson heard. King 02 0445 USB pp via Hickam to Acclimate(?) re: Ops Normal. MODERATOR 0337 USB clg Mainsail, testing. BONE 22 (not heard) 0347 USB pp via Hickam to RAYMOND 33 re: fuel for BONE 21 & 22. Skyking 0408 USB msg PZY 07 DU. Reach 7946 tail #67946 pp to Charleston CP, mentioned Hurricane watch & expecting 45-64 knot winds, & possibility of sending flight to McGuire. pp via Offutt, called Hilda East said 2.5 hours out of CHS & wanted to know where to go. (EG) SNOOP 56 1254 USB w/pp to BANTER OPS (Mildenhall) via Croughton. Requesting AR with tanker QUID38 to be cancelled due to an oxygen malfunction that has caused SNOOP 56 to divert to Mildenhall. SNOOP 56 is enrt to Offutt. Will request lower FL from London Mil ATC to conserve oxygen. Current posn is still within UK airspace. BOOKSHELF 61 pp Aviano via Ascension. Req wx over Yugoslavia and will land at Aviano at 2215 Zulu time. (JB) 1429 GHFS stations with 20-character EAM "FOR TACAMO PAC PRIMARY". First heard instance of one of these abncp-type "For..." EAMs broadcast at a timestamp other than h+38/40. DERBY 51 1450 USB, ex GALVESTON enrt to HOWARD, wkg MACDILL w/pp to MACDILL wx. Station id'ing as SCOPE COMMAND CELL female opr 1543 USB clg MAINSAIL over a short period of time w/initially no response. So she birddogged a weak (here) station clg MACDILL, w/no response. Finally, MACDILL responded to her call, & she id'd herself as SCOPE COMMAND CELL, & SCOPE COMMAND CELL TEST SIMULATOR STATION. Signal check and she was gone. JAPAN NAVY 508 1517 USB attempting to work MCCLELLAN. Moved to 13200. PRESCOTT 0123 USB wkg ? (missed the station) getting working freqs for NIGHTWATCH 01: Z210, Z215. At 0130z, GHOST FIVE wkg ANDREWS. NIGHTWATCH 01 (female opr) 0248 USB clg MAINSAIL & raising MACDILL. Moved to 6739. HICKAM 0137 USB w/EAM. Suspect that this was a "repeat" EAM taken from an earlier GHFS EAM session. If so, then HICKAM's "repeat" EAM minute stamp did not shift when the other GHFS stations shifted their transmit times sometime after Jan 28 96. HICKAM 0703 wkg MW920, were apparently exchanging some sort of brief high pitched data burts on freq (maybe 1 to 2 seconds in duration.) HICKAM followed this activity w/the reading of a string of 3-element groups to MW920 that consisted of 17 groups, the last group which consisted of a single letter: "B". These 3-element group sessions involving HICKAM are relatively common (but the short data bursts are not). LABORDAY 1456 USB clg ADMO once & gone, responding to ADMO's general call for a GHFS station. OFFUTT 1400 USB , as lead GHFS station, w/126-character EAM: PCIJNX.... At 1404z, OFFUTT up w/75-character EAM: PC2X3D. SAM 206 2031 USB working ASCENSION, & getting

SAM 206's primary ANDREWS freq (287). PACCOM 01 1504 USB called HICKAM & MCCLELLAN. DOOM 87 1953 USB worked MACDILL w/pp to DSN 781 number id'd during patch as RED DEVIL SCHEDULING, w/lots of chatter re DOOM 87 "buying time" re IR126. HICKAM 0516 USB wkg something that sounded like NAVY VICTOR UNIFORM 394 (or close to it), unheard here. HICKAM seemed to be receiving very brief data bursts from the callsign, & acknowledging receipt of same. TELLTALE 1324 USB clg MAINSAIL and raising OFFUTT. (JH) REACH 619: 0800 USB to Ramstein crew 8 no pax A1 cargo for "downrange". HOIST 84: 1445 USB 45N-47W asking for Gander metro. REACH 0140: 1510 USB in contact w/Lajes requesting Tacan freqs for the A/R. REACH 04RC: 1520 USB clg Mainsail no answer. REACH 40061: 1515 USB general call by Incirlik no answer. REACH 0012: 2100 USB wkg Ascension to Moron. Mission 426,29 pax, 10000lbs hazardous,RON. REACH 9013: 2105 USB wkg Ascension to Dahran. (JP2) GASER 91: 0055 USB wkg Ascension p/p Seminole ops. CHORE 22: 0116 USB wkg Albrook pp 872-XXXX 4580. HARBOR 22: 0203 USB clg MAINSAIL no joy. Elmendorf: 0347 USB clg any stn for radio ck answered by McClellan loud clear. Navy CW790: 0349 USB wkg Elmendorf pp Hickam billeting office. SPAR 66: 0352 USB wkg Elmendorf pp request. Navy Lima Uniform 08: 2357 USB wkg Albrook pp Key West ops. REACH 0022: 0001 USB wkg Albrook pp Hilda East est arr Port-Au-Prince Haiti 0110Z. BLUE 21: 1158 USB wkg (Andrews?) pp metro wx for Cherry Point Moody McGuire KC10 acft posn 42N 51W. SHARK 71(5?): 1205 USB wkg Albrook radio ck. CENTER 14: 2048 USB wkg MacDill pp billeting office from 9 SOS. Navy Lima Uniform 08: 2357 USB wkg Albrook pp Key West ops. REACH 0022: 0001 USB wkg Albrook pp Hilda East -- est arrival Port-Au-Prince Haiti 0110Z. SHARK 89: 1144 USB wkg Albrook pp Lobo ops matters. UTAH 61: 1417 USB wkg Andrews pp metro regarding Otis ANG base wx. McClellan 1405 USB text count 1-5 5-1. AEROVAC 60174: 1406 wkg MacDill pp Roosevelt Roads metro regarding wx upon arrival.(KW2) King 52 2301 USB wkg MacDill. Offutt 0104 USB w/EAM. Ascension 0114 USB w/several reach flights mixed in V163 2580. Reach 2580 0119 USB having trouble passing tail number and mission number to Ascension for pp to Rota Metro. Another station overheard & helped out & established the patch. Reach 2580 told stations he was a C-17. (LB2) LABOR DAY: 1230 USB wkg MacDill Wants to work data, moved to 13242. (LVH) MacDill 1826 USB wkg pp for MUSIC 52 to DSN# 781-2644 BARKSDALE,AFB. Albrook 1836 USB wkg pp for TORCH 38 to Furious. MacDill 1900 USB wkg pp for TUFF 12 to DNS#781-3166-Barksdale meteo. Albrook 1855 USB wkg pp for LIMA DELTA 115 Lobo & meteo. Offutt 1848 USB wkg pp for REACH 0005 to Andrews meteo. Albrook 1853 USB wkg pp for SHARK 22 to Lobo. Ascension 2320 USB wkrg PP for HORIZON 23 to Raymond 9. Albrook 1912 USB wkg pp for AEROVAC 14 to Howard meteo. Albrook 1915 USB wkg pp for SHARK 76 to Lobo. Andrews 1918 USB wkg pp for KING 88 to King Ops at Patrick,AFB. Ascension 2320 USB wkg pp for HORIZON 23 to Raymond 9 at Howard,AFB. Albrook Global 0005 USB making an all frequency req for HORIZON 23,no joy. MacDill 2040 USB wkg pp for REACH 609 to Homestead Ops (Tail#59404 C-141). MacDill 2043 USB wkg pp for HALL 43 to DSN#-731-6791-ext6222. Ascension 2028 USB wkg pp for TALON 86 to DNS#579-5849-plantation ops. Andrews 2040 USB wkg pp for SAM 974 to Andrews VIP, switched to F354-11053. Albrook 2126 USB wkg pp for SHARK 18 to Lobo. Albrook 2206 USB wkg pp for SHARK 86 to Loba & Howard meetro. Ascension 2211 USB wkrg PP for REACH 0711 to Hilda East. Andrews 2233 USB wkrg PP for SAM 27000 to 843-0000. Andrews 2243 USB wkg pp for SAM 27000 to Andrews VIP. Albrook 2258 USB wkg pp for SHARK 18 to Lobo. Albrook 2333 USB wkg pp for HERK 71 to Furious 8. Ascension 2100 USB wkg pp for REACH 8288 to Charleston CP & meetro (MF2) TEX 83 2320 wkg MacDill w/pp to Raymond 27 (DSN 461 xxxx). ANVIL 01 2322 wkg MacDill w/pp to MINUTEMAN. DACTYL 10 0220 wkg Incirlik w/pp to DSN 872 xxxx req. wx for Eglin. Hickam 0326 transmitting unusual Foxtrot bcast "For xxxx". Hickam op made a point of saying that he was transmitting to xxxx "in the blind...". PADDY 45 0253 wkg MacDill w/pp to Kelly metro. ZAP 22 0024 wkg unkn GHFS stn for pp to DSN 860 xxxx who then patched through to commercial # for a morale call. YANKEE 65 wkg MacDill w/pp to DSN 636 xxxx. (MJ) Andrews GHFS: Md, US 1602 USB wkg REACH 0244 w/pp Hilda East, are PJM701/702 mission, req 1 hr early departure from "present" location, approved. FIGHTING TIGER 720, (P-3C) 1610 USB wkg Andrews

w/pp NAS New Brunswick to pass ETA. RAYMOND 25: 4th Wing CP, Seymour-Johnson AFB N.Carolina 1612 USB clg any station for rdo ck, Andrews ans fair & readable. JAMBO 36: B-52 2nd BW Barksdale 2311 USB AFB, wkg Albrook GHFS w/pp to RAYMOND 06, 8th AF Command Center at Barksdale. (RB) GASSER-92 0331 USB To unknown station. re: pp. DECOY 01 1157 USB w/pp thru Albrook to DSN 476-2682 which ID'd as Navy _____ Ops. ETA 1245, needs civilian/military customs & agriculture. Req 15000 lbs/fuel (TB) REACH 448 1934 USB wkg Ascension GHFS: req pp to DSN # 854-5183 a/c type C5, ETA 1730 (dest. station not given). MASH 71 1938 USB wkg Ascension GHFS: req relay of msg to AFRES Command Center to DSN #497-0680/ETA Robins 2200Z/O-6 on board. SHARK 12 1941 USB wkg Albrook GHFS: need another freq, unable to copy. (TO) AF26000: 2042 USB clg Mainsail. ROMAN LAD: 1454 USB (C/s phonetically spelt out) calls MacDill w/radio check. TACK 18: 0119 USB wkg unid who requested TACK 18 deviate from track to Elmendorf to determine if vsl Joanne Marie 60 foot longliner was fishing within three nautical miles of a rookery. If so, TACK 18 asked to video tape it & gather whatever other evidence they could. Patch via by Hickam. DARK 42: 1747 USB at wkg RAYMOND 37 re refueling related info. Refueling a/c apparently took off late Then DARK 42 was directed to QSY to 9025 USB. RAYMOND 37 told DARK 42 he would send him a SATCOM [presumably a relay] Strike Report in appx. 10 minutes. If he did, it was encrypted [lots of dripping water heard on this frequency]. Just as I switched back to 11175 USB my back up receiver, which was tuned to 9025 USB went active and I heard an unknown party say he had two retained RDU [phonetic]. I would think this was BDU but who knows these days. BONE 22 1647 USB [Probably B-1B from 29th Bomb Wing Ellsworth AFB, SD] calls Raymond 23 with following: Tail 96 [BONE 21] 220 fuel load. BONE 22 has 215 fuel load left and is Foxtrot 4, Code 2. BONE 22 asks if there any words from higher leadership. BONE 22: 1811 USB with Raymond 33 [?]. BONE 22 told tanker taking off w/less fuel than anticipated due high gnd temp. Someone on BONE 22 who calls himself Dark Star talks with a Cpt Randy X on the gnd DARK STAR told two BONE a/c expecting refuel will be short 5,000. Told to pick up the balance from a 3rd AR. (TR)

11181 BARN ROOF 0440 USB wkg NIGHT WATCH 01 on Z200. (DW2) PACAF 01 1803 USB wkg MACDILL w/pp's. NIGHTWATCH 01 1717 USB clg & wkg PETTYSUM (maybe, although it sounded sorta like PATTYSUB or somesuch.) Secondary freq for net. Primary Z175. APPOINTEE 0331 USB clg & wkg MACDILL in voice & data exchanges. MACDILL advises APPOINTEE that NIGHTWATCH 01 wishes to work MACDILL with data, but that APPOINTEE should continue until he is through. At conclusion of APPOINTEE's data work, NIGHTWATCH 01 pops up on freq to work MACDILL. (JH) Andrews 2003 USB wkrg PP for NIGHTWATCH 03 to WALDORF (MF2)

11187 BOOM TOWN: 2208 USB wkg HARD LUCK (RM)

11191 PIPELINE: 1620 USB wkg GONZO 04 Delta tells PIPELINE that his sig is ZBZ 1 1635 USB PIPELINE wkg TELCOM gives status report on GONZO 04 Delta who was setting up a RTTY (75/850) link in the clear w/periodic tests on 11193.3 1643 USB GONZO 04 Delta says confirm you received (RATT test). My time: 271643Z to PIPELINE but gets no response. Tells PIPELINE at 1649 to switch to 6712 kHz where GONZO 04 Delta is heard clg PIPELINE at 1650. No joy. Then tells PIPELINE to go to 5700 kHz at 1652. Couldn't hear anyone on that freq 1706 USB PIPELINE clg GONZO 04 Delta for r/c. No joy. Switches to 6712 kHz at 1708 & calls GONZO 04 Delta. Again no joy. 1716 USB GONZO 04 Charlie (not Delta) tries clg PIPELINE for sev mins for r/c. No joy. No further comms hrd for quite some time after this. (RM)

11214 Star 66 0049 USB req pp to Peterson AFB from 520 miles out for Wx conditions. She expressed her concerns that she has gotten 2 wx reports & one said their were T-storms and one said there wasn't. Peterson personnel said no storms. (LB2) SAM 049: SAM 26000: SAM 29000: 1241 USBwkg Andy here on self ID'ed F-064 secondary. Checking other freqs to move 049/26000 to for primary. (LVH) PROTRUDE 1538 wkg Trenton Military w/ pp to SULFIDE 01 re coordinating tankers for fighters launched from Charleston and Jacksonville. TOP CAT 02 is to be the tanker. SAM 202 1544 wkg Andrews. 202 req frequency change due to other traffic on frequency. QSY F 354 (MJ)

11220 ANDREWS 1436 USB wkg an unheard SAM 202, providing pp's for same. By

1447z, ANDREWS was at slightly better levels, but not SAM 202. At 0552 Two stations in periodic ANDVT comms, w/no clear voice. Heard as late as 0652z. Presumed AIRFORCE ONE a/c and ANDREWS. (JH) Executive One Foxtrot 0300 LSB working Andrews AFB over the past couple of hours w/pp's to numerous airports in and around Little Rock. It seems Little Rock is rocking with thunder storms tonight. ETA into Little Rock is 0330z. (JJ) SPAR 43 1728 wkg Thule. (MJ)

11226 Unid 1423 USB EE comms between two weak stations who either did not id or did so with the id's lost in the noise floor - they were weak. There were also active ALE bursts and apparent responses coactive during these comms. Stations id'ing as POPE & WARNER ROBBINS were up on this freq the previous day at about the same time, w/apparent transmitter adjustments and chatter about LQA matters. 1908 USB EE station, strong, non-U.S. accent, calling various callsigns which I could not make out. SAM 206 2032 USB worked ANDREWS. (JH)

11229 WAR46 1906 USB clg NIGHTWATCH 01. At 2038z, TOADSTOOL wkg station in NIGHTWATCH net. AUTOTIRE 0022 USB working NIGHTWATCH 01, entering the net & followed w/ANDVT comms. At 0027z DESSICANT clg NIGHTWATCH 01. At 0247z, AUTOTIRE raises NIGHTWATCH and "secures" from the net through the challenge process, & confirms that AUTOTIRE will "maintain" this freq. Apparently he was active in the net for 2 hours, & would hang around after he left the net. NIGHTWATCH 01 1522 USB active with his net. At 1534z, NIGHTWATCH 01 with 26-character EAM (VLJSYZ...), and then trying to raise NOTEBOOK and LIONHUNT to see if they copied traffic. The NIGHTWATCH 01 operator did not read his EAM string in the steady one-character-per-second beat of most operators; but instead read it out in a somewhat awkward manner. The operator also id'd himself as NIGHTWATCH ONE (not ZERO ONE). This "ONE" id is usually only heard from stations such as WAR46, the coactive BRANDY operator on 11244 & others, & certain WGY... operators when they rarely work NIGHTWATCH 01. There was heavy interaction between NIGHTWATCH 01, BRANDY, and WGY.. stations over this time period, which maybe suggests that the NW01 operator was a FEMA operator this day (or, maybe not). PRESCOTT 0125 clg NIGHTWATCH 01, w/no response heard. At 0127z, PRESCOTT clg MONOGRAM, w/no response heard. (JH) NIGHTWATCH (01): 1632 USB w/ pp to Army Operations Center Tech Control (in Pentagon) via WAR-46 reference troubleshooting a circuit. (TT)

11233 TELECOM BRAVO: 2013 USB clg TELECOM DELTA, whoizit? (AB2)

11235 Kiwi-635 0401 USB No joy from Kiwi opp's.

11244 MCCLELLAN 1508 USB, as lead GHFS station, w/108-character EAM "FORSPROUT": PC53E2... At 1542z, TATTOOED with VL7JYH... EAM, simulcasting on 11244, 6739, & 10204, leading the GHFS xmsn of same, & back up at 1545z w/26-character string. At 1553z, the GHFS stations w/a 96-character EAM "FOR SPROUT": PCVFDQ.... followed by the 26-character heard from TATTOOED at 1545z. ANDREWS 0630 USB w/two 26-character EAM strings (one taken from OFFUTT's 0530z broadcast of one of the strings; and both strings also being "repeated" by ELMENDORF that same local night) at ANDREWS' post 0600z H+30 "repeat" EAM transmission time. Also heard //on 6712. OFFUTT 1307 USB w/20-character EAM "FOR ENTREAT." At 1425z, OFFUTT, as lead GHFS station, w/20-character EAM "FOR TACAMO PAC PRIMARY." Another non-h+38/40 transmission of these particular strings. MCCLELLAN 1310 USB with a 26-character EAM string (taken from a top of the hour 20/20/26 character EAM set) broadcast at 1310z and 1350z, MCCLELLAN's h+10/h+50 "repeat" EAM transmission times. At 1333z (OFFUTT at 1335z), MACDILL up w/71-character EAM: UPXRUB... At 1450z, OFFUTT, as lead GHFS station, with 71-character EAM: PC6LN4. DIGNIFY 1401 USB clg MAINSAIL, w/no response and gone. OFFUTT 1627 USB, as lead GHFS station, with 20/20/26 character EAM set over a 15 minute period (10 minutes between the middle and last string). ELMENDORF 0619 USB initiating a FOXTROT broadcast prefaced with ENLIST: PIP 19 BD. TINHORN 1336 USB wkg MACDILL for NIGHTWATCH working freqs: Z175. SNOOP 55 1205 USB clg MAINSAIL & raising MACDILL for radio check. At 1232z, stations on the GHFS with 44-character EAM: UPFPLO... BRANDY 1841 USB with a statement that sounded like "EXERCISE ___ 181841z." Then, BRANDY clg STATESMAN; no response; so BRANDY passes various strings such as "HOTEL 181840" in the blind. By 1857z BRANDY is

clg "NIGHTWATCH ONE", w/no response, and passing similar H"dtg" strings in the blind. Still active at 1926z. AUTOTIRE 0016 USB clg MAINSAIL & raising THULE; requests NIGHTWATCH working freqs: Z210, Z215, and Z200. OFFUTT 1206 USB, as lead GHFS station, with 74-character EAM: UPMHRL... OFFUTT 1356 USB, as lead GHFS station, w/77(+/-)-character EAM string: PCTX27... Another instance of an EAM that contains the numeral "one"; and it too is contained in a block of text that conforms to "....EA_1_...."; in today's case, ..EAB1H... At 1535z, OFFUTT with 75-character EAM: PCV7JI..., this string not containing "ones". At 2150z, MACDILL, trailing OFFUTT's transmission of same, with 84-character EAM: PCJZGE... OFFUTT 1826 USB, as lead GHFS station, with 20-character EAM "FOR SEEING EYE." At 1854z, OFFUTT back up with 20-character EAM "FOR SEEING EYE.". OFFUTT 1138 USB, as lead GHFS station, with 20-character EAM "FOR TACAMO PAC". Common 1138z broadcast time, but first heard instance of these "For..." strings less the PRIMARY/SECONDARY suffix. WINTHROP 1955 USB called MAINSAIL and raised OFFUTT. (JH) Albrook 1845 USB w/pp for SHARK 61 to Lobo & to 825-5552 -VIKING OPS in Minneapolis. Albrook 2301 USB wkrg PP for SHARK 86 to Lobo (MF2) G5Y 0200 clg McClellan. After several calls, Offutt answers, offers to help. G5Y initially ignores Offut and continues to call McClellan. Eventually, G5Y decides his only hope is Offutt, from whom he requests a pp to a commercial number 315 471 xxxx. X9G answers, and they pass exercise traffic: 110205 5TOR 110208. (MJ)

11246 STATION NORD: 0840 USB Danish Air Force (Greenland) wkg other Danish Air Force Station ("Station...vier"), presumably Vaerloese. Later giving wx in Danish for Vaerloese and Keflavik. (MS)

11247 RAFAIR 24K6: 0945 USB Calling Cyprus flightwatch who tells him to QSY to 18018. (PT) Cyprus Flight Watch: USB wkg Architect for a radio check. ASCOT 4674: 1020 USB calling for Architect but no answer.(SM)

11253 UK VOLMET 0815 USB RAF bases weather condx (ANEE) RAF Volmet (G) 1445 USB EE m machine voice Volmet (ANEU)

11460 Navy 511 (unheard) 1707 wkg Andrews. (MJ)

11494 ROUGHGEM 1756 USB working OPALRING on self-id'd ZULU 205. (JH) Omar 79: 1839 USB clg Hammer. No joy(RM)

12106 SAM 375 2056 USB (101U) w/pp between General's.(GT)

12719.8 ZLO: Royal New Zealand Navy Auckland 0503 CW w/channel marker. (DW2) (located at HMNZS Irirangi - Waiouru - LOGS)

12984 4XZ: Israeli Navy, Haifa 1934 CW, "vvv de 4xz 4xz bt bt" marker (MC) 4XZ: Israeli Navy, Haifa, ISR 0110 CW w/CQ marker. (RB)

13200 AFI2: USAF, McClellan GHFS, Ca, US 1438 USB mainsail msgs. AFS: USAF, Offutt GHFS, Ne, US 1620 USB mainsail msgs. AFA3: USAF, Andrews GHFS, Md, US 1804 USB mainsail msgs. (AI) OFFUTT 1813 USB w/20-character EAM "FOR EMILY." 15016.0 1650z+/- 11 TATTOOED with 21-character EAM "FOR DOWEL" (sounds like, probably misspelled) VLMLNO..., //on 15016, 11244, 8968, & picked up by the GHFS. At 1659z GHFS stations are back up with VLMLNO... "FOR DOWEL" string, this time as 20-characters (they dropped a V in the body of the string.) TATTOOED back up w/ 20-character EAM "FOR DOWEL" at 1814z. JAPAN NAVY 508 1518 USB attempting to raise MCCLELLAN with no success. Moved back to 11175 (JH) Navy Victor 910: 1056 USB wkg Thule pp Thule metro. REACH 574: 1111 USB wkg Thule pp 589-XXXX Casino (439AW Cmd post) other ops info. (KW2) NAVY LIMA NOVEMBER 45 INDIA 1859 USB clg Mainsail, nothing heard. Croughton 2309 USB wkrg PP for REACH 611 to Hilda East (MF2)

13242 WAR46 1731 USB clg NIGHTWATCH 01, w/no response. However, NIGHTWATCH 01 up on freq at 1734z working a weak station here (unid), & seemingly id'ing the freq as Z-215. At 1905z, WAR46 clg & wkg NIGHTWATCH 01. MACDILL wkg APPOINTEE in voice and data. NIGHTWATCH 01 0131 USB wkg PRESCOTT. NIGHTWATCH 1744 USB net active here w/ NIGHTWATCH 01 & weak players. At 1949z, WAR46 worked NIGHTWATCH 01. At 2003z, SPLENDID worked NIGHTWATCH 01 and checked out of the net using the new 3-element authenticators. WAR46 1606 USB wkg NIGHTWATCH 01. Then MERCATOR (sounds like) works an unheard NIGHTWATCH 01, advising NW01 that he is going monitor only for 1.5 hours. At 1728z, CHINAWARE works an unheard NIGHTWATCH 01. At 1744z, MERCATOR, back up, works an unheard NIGHTWATCH 01 and they move to ZULU 230 (not found). At 1929z, CHINAWARE works NIGHTWATCH 01 (the CHINAWARE opr

sounds very much like the NIGHTWATCH 01 opr who often works the 0000z+/- timeperiod on NIGHTWATCH 01.) By 2206z a weak station enters the net with NIGHTWATCH 01, and NIGHTWATCH 01 advises that GRASSFOX is also in the net. At 2250z, GRASSFOX works _____ (could not make out id), who enters the net through GRASSFOX. (JH) LABOR DAY: 1231 USB wkg MacDill with voice/data . (LVH).

13476 USNA 1512 CW training msgs (RM)

13960 SAM 26000: 1239 USB wkg Andy here on self ID'ed F-291 (LVH).

13996 USAF MARS Net: 2325 USB EE sx stns AFA1ED, AAT9HD (AZ), AFA3FZ (WI), QTHs ? (ANEU)

14384.5 VXV9: CFARS Golan Heights, SYR 1707 USB wkg CIW202. CIW202: CFARS Vancouver, BC, CAN 1707 USB wkg VXV9. CIW82: CFARS Greenwood, NS, CAN 1717 USB radio ck w/VXV9. CIW822: CFARS St John, NB, CAN 1857 USB wkg VXV9. CIW816: CFARS unid 1825 USB wkg VXV9. (Conception Bay, NF, CAN -LOGS) CIW824: CFARS Halifax, NS, CAN 1843 USB clg VXV9, no joy. CIW803: CFARS unid 1810 USB wkg CIS91. (Dartmouth, NS, CAN -LOGS) CIS91: CFARS Petawawa, ONT, CAN 1812 USB wkg CIW822. (AI)

14391.5 USN MARS Net: 0055 USB EE sx NNN0XGB wkg NNN0CVP, QRM by NNN0NUW wkg NNN0CST & NNN0CCK, QTHs ? (ANEU) (CVP is USS Conoley (DD-979), CST is USCGC Decisive (WMWC-629), CCK is USCGC Bear (WMEC-901) & XGB is a private shore sta, unk loc. -LOGS)

14402 US ARMY MARS: 0005 USB m AAR3CB (QTH?) w/UNID stateside (ANEU) AEM1UFB: 1324 USB U.S. Army MARS Germany p/p's to Stateside homes via AAR3USI (RM)

14441.5 USN MARS Clg Fq: 0050 USB EE sx NNN0CCK clg CQ-MARS stateside fr pp, answered by NNN0NUW. 0048z NNN0CST wkg NNN0NUW, QSY to 14391.5, QTHs ? (ANEU) NNN0NWV: Navy MARS unid 2055 USB wkg NNN0NGW. (AI) (this is NAVSECGRUACT -Naval Security Group Activities, Sugar Grove, WV -LOGS) NNN0CVO: 1400 USB USN Mars pp attempt, vsl hdg northeast qsy to 14470? (ANEE) NNN0KRQ 0013 USB wkg/CXM very weak and barely readable. (LB2) NNNOCVS: USS Mississippi 2309 USB w/pp to NNNOSNW (Shore station-Inverness FL). NNNOUMS: Shore station-Evansville IN 0205 USB discussing pp with NNNOCVS (USS Mississippi) but propagation poor & no joy. NNNOCCK: USCGC Bear 1953 USB w/pp thru NNNONWV-the Naval Sec Group pp switched to working freq 14483.5 USB. NNNONXZ: USCGC Confidence 2010 USB w pp thru NNNONWV-Naval Sec Gp pp switched to wkg freq 14483.5 USB. NNNONXZ: USCGC Confidence 1829 USB wkg NNNOPSX (Unknown shore stat) for pp-first moved to 14483.0USB. NNNOCNJ: USS Caron (DD-970) 1954 USB wkg NNNOKRQ (Ohio shore station) for pp first moved to 14470.0 then finally to 14391.5 where pp was made. (MR2) NNN0NXY: Unid MARS sta 0120 USB wkg NNN0BMV (private shore sta in N. Dakota) for attempted pp tfc. NNN0CHS: USS Vincennes (CG-49) 0121 USB wkg NNN0NXY. NNN0CST: USCGC Decisive 0123 USB (WMEC-629) clg any MARS station stateside, NNN0BMV answers, QSY to wkg frequency 14383.5 for pp tfc. NNN0NUW: MARS Station, NAS 0259 USB Whidbey Island, Wa, US clg NNN0CPE. NNN0CCP: USCGC Escanaba 0357 USB (WMEC-907) clg any 'shore side' station, also hrd still clg at 0426. (RB) NNN0CSI: 1514 USB leading rgn 3 Navmarcormars net (RM)

14467 USN MARS: 0048 USB EE sx NNN0CYL wkg NNN0IBM (f OP), id as CYL & IBM, QTHs? (ANEU) (CYL is USS Kidd (DDG-993) -LOGS) NNN0NWV: 2240 USB running phonepatches. (PvdE) (see 14441.5 for ID -LOGS)

14470 NNN0HLQ: Navy MARS, Wimberly, Tx, US 1907 USB wkg NNN0CNX. NNN0NGU: Navy MARS, unid 2100 USB wkg NNN0ERA. (AI) USN MARS: 0045 USB EE sx NNN0CMS wkg NNN0JHR, id as CMS & JHR, QTHs ? (ANEU) (CNX is USS Virginia (CGN-38); ERA is private sta in Cape Coral, Fl; CMS is USCGC Courageous (WMEC-622); JHR is private sta in S. Texas; NGU is unk, ID anyone? -LOGS)

14483.5 NNN0SYN: Navy MARS, unid 1855 USB wkg NNN0COW. (AI) (SYN is unk private sta & COW is USS Trenton (LPD-14) -LOGS)

14780 VICTOR-ECHO-XRAY 0015 USB working CHARLIE-INDIA-FOXTROT 204 w/data & maybe ANDVT comms. (Can't make out too much.) (JJ)

14863 SAM 26000: 1524 USB barely readable requesting SAM Command (JP2)

15016 CADZAY 4: (C-130) 1722 USB wkg McClellan. (AB2) AFE3: USAF, MacDill GHFS, Fl, US 1313 USB wkg RC2I w/pp. (AI) OFFUTT 1817 USB, as lead GHFS station, with 20/20/26 character EAM set over an eight minute period. (JH) REACH 574: 1106 USB wkg Lajes told to qsy to 8968. (KW2) Offutt 2359 USB w/EAM & womans voice in background with EAM (LB2) Andrews 1852 USB wkrg PP for MARINE 76(?) to Hilda west (76 is a

KC-135. Albrook 1854 USB making an all frequency request for REACH 0026,no joy. Albrook 2032 USB wkrg PP for SHARK 29 to Lobo (MF2)
15031 CANFORCE 01 1751 USB wkg Trenton Mil, posn: just cleared West coast of France going oceanic. Canadian PM going home ?? Pri 15.031 Sec 11.232 (AD2)
15034 CHR: Trenton Military, Ont, CAN 2131 USB w/wx. (AB2)
15038 SPAR 67: 1400 USB on 948 upper moving to 448 upper lost.Previously on 311 upper (11220) (JP2)
16405 Italian Military, Genova 0700 USB tfc (ANEE)
17976 MCCLELLAN 1645 USB as lead GHFS station, w/102-character EAM: UPSAEW...,followed at 1651z with 20-character EAM "FOR EMILY."(JH) Offutt 2338 USB w/EAM. (LB2)
18027 SURPRISE 1657 USB working CLASSICAL for signal checks. (JJ)

=MISC=

288 HH: NDB Hoek van Holland lt,HOL 2140 CW (AB)
288.5 YM: IJmuiden front lt,HOL 0845 CW (AB)
296 GR: NDB Goeree lt,HOL 2220 CW (AB)
296.5 BH: NDB Blavands Huk lt,DNK 1647 CW (AB)
299 AD: NDB Ameland lt,HOL 2143 CW (AB)
299.5 Ameland lt,HOL 2143 MSK 100bd DGPS transmissions (AB)
301 ER: NDB Eierland lt,HOL 1649 CW (AB)
303.5 VL: NDB Vlieland lt,HOL 1651 CW (AB)
305.5 AL: NDB Pointe d'Ailly lt,F 2153 CW (AB)
311 LMA: Lima NDB, D 1715 CW (AB)
311.5 Oostende lt,BEL 2137 MSK 100bd DGPS transmissions (AB)
312 OE: Oostende lt,BEL 2137 CW (AB)
313.5 CM : Cromer lt,G 0847 CW (AB)
316 PH: Locator Eindhoven,HOL 0740 CW (AB)
316.5 STK: Aero NDB Stadskanaal,HOL 0748 CW (AB)
317 VS: Locator Valenciennes/Denain,F 0746 CW (AB)
319 LEC: Stavanger NDB, NOR 1200 CW (AB)
326 LLS: Aero NDB Lelystad,HOL 1400 CW (AB)
327 MVC: Locator Merville,F 2150 CW (AB)
336.5 NIK: Nicky NDB, BEL 1920 CW (AB)
342 GG: Eelde Locator, HOL 0656 CW (AB)
348.5 LG: Luik NDB, BEL 1723 CW (AB)
350 ROT: Aero NDB Rotterdam,HOL 2135 CW (AB)
352.5 DD: Locator Oostende,BEL 0735 CW (AB)
357 VZ: Locator Groningen/Eelde,HOL 0802 CW (AB)
360.5 MAK: Aero NDB Mackel,BEL 0733 CW (AB)
369 PS: Locator Rotterdam,HOL 2138 CW (AB)
375 OO: Locator Oostende,BEL 0731 CW (AB)
376 WP: Amsterdam locator, HOL 1212 CW. (AB)
382 PM: Peronne NDB, F 0630 CW (AB)
386 STD: Aero NDB Stad aan het Haringvliet,HOL 2142 CW (AB)
387.5 ING: Aero NDB St.Inglevert,F 0853 CW (AB)
388.5 CH: Locator Amsterdam,HOL 2139 CW (AB)
393 DEN: Aero NDB Dender,BEL 0854 CW (AB)
395 OA: Locator Schiphol/Amsterdam,HOL 0730 CW (AB)
397 EHN: Aero NDB Eindhoven,HOL 2146 CW (AB)
398 ONO: Aero NDB Oostende,BEL 2146 CW (AB)
401.5 BET: NDB Rhein/Bentlange (German Army),D 0725 CW (AB)
404 MRV: Locator Merville,F 2158 CW (AB)
404.5 RR: Aero NDB Rotterdam,HOL 2158 CW (AB)
406.5 BOT: Bottrop NDB, D 0933 CW (AB)
418 MK: Aero NDB Calais/Dunkerque,F 0638 CW (AB)
421 BUR: Aero NDB Burnham,G 0640 CW (AB)
429 CLN: Aero NDB Clacton-on-Sea,G 0642 CW (AB)
431 ONT: Aero NDB Kleine-Brogel (Belgian Air Force),BEL 0645 CW (AB)
434 THN: Thorn NDB, HOL 1202 CW (AB)
3090 MOSSAD (ISR): 0135 EE vmf "SYN2" (ANEU)
3128 UNID: E'EU (mil.?): 0035 USB sx Polish? "Michael" w/ "Ivo", etc. (no pirate operation styl) (ANEU)
3215 UNID EE sx net: 0145 USB m "you can reach me by telephone..." this OP has an german accent, must be a german in Canada, stupid nazi chats abt "gas chambers in Auschwitz" and propaganda, sounds like pirates?? (ANEU)

3270 MOSSAD (ISR) 0140 USB vmf EE "KPA2" (ANEU)
3300 CHU: UTC? AM time sta Ottawa in ff/ee (RT2).
3314 HEP3: INTERPOL Zurich (SUI) 1835 CW v-mkr (ANEU)
3844 TLWN: UNID 0035 CW clg CXNE & ltr 5 ltr grps (ANEU)
3860 WA3NAN: Goddard Amateur Radio, Md, US 1449 LSB w/rebroadcast of audio for launch of Space Shuttle Columbia on mission STS-78, w/liftoff. (RB)
4035 UNID: (SUI) 2010 LSB swiss-GG, sx, private chats, pirates? (ANEU)
4077 UNID: 1900 CW "DBY QSY 3893" many times, later many times "DBY QSY 4941", always the same full phrase, no tape but hand keyed (ANEU)
4194 UNID number/SPY stn: 1815z f GG machine voice, "neujen"/"f=FCnef" instead of "neun"/"f=FCnf" (=3D9 and 5) (ANEU)
4519 Unid 0214 AM mode YL EE Language 5FG Numbers Station. (KW2)
4754 1050 CW 5FG numbers station (CK)
4880 UNID, SPY?: 2215 USB f 5LG's. (ANEU)
5091 UNID, SPY?: 2030 USB f 5LG's. (ANEU)
5146 'Carmen 06' UNID sx Net (ex YUG?) mil.?: 1725 USB m/f OPs slavian lang., 1730z 'Capitan 12' clg 'Skopje 06' (ANEU)
5151.5 UNID: 2025 USB sx Czech/Slovak?, ment:"telegram", coded msg (5LG's). (ANEU)
5170 MOSSAD (ISR): 2305 USB vmf EE "MIW2" (ANEU)
5277 PANTHER: DEA, Nassau, Bahamas 0229 USB wkg 34C re status; at 0354 60A clg PANTHER, no joy. At 0358 wkg 33C re negative sighting of target vsl, is RTB. DEA "Alpha" channel. (RB)
5301 OLX: MOD Prague 1901 CW cq (DG) (this is MOI Prague -LOGS)
OLX: MOI Prague (CZR) 2055 CW v-mkr (ANEU)
5365.5 'MFPB' UNID: 1740 CW clg 8POM (ANEU)
5430 Unid asian stn 0830 USB Possible Japanese p/p (AW)
5437 UNID SPY: 2130 USB f cont. "ART" (ANEU)
5450 Several PNG companies 0830 USB different voices in Pidgin (AW)
5458 2CO9: UNID 1445 CW cont. clg OAWF (ANEU)
5470 UNID (Mil.?): 0030 LSB m FF sx (N'AF Accent), w/msg, starting all w/"DQLG" often ment.: "Rabat" & "Sahara", using "ICAO/NATO spelling" (ANEU)
5530 MOSSAD (ISR): 1955 USB vmf EE "VLB2" (ANEU)
5708 3RO unid: 2145 USB m FF sx w/unid f "Visibilite horizontale Zero". (ANEU)
5841 34C: 0312 USB clg PANTHER, no joy on DEA "Bravo" channel. (RB)
5874 KTIR: UNID 1745 CW clg UNID (SN9S?) (ANEU)
5939 UNID: 1850 CW cont "T33 34995" (ANEU)
5985 CRMF: Kerema PNG 0840 USB Christian Mission Fellowship. Several stations chatting in Pidgin. Audible again, now that HCJB no longer broadcasts on 5900. (AW)
6565 Unid 1150 USB w/very loud speech-inversion scrambling (TB)
6660 Unid 0035 AM YL English Language repeating Sierra Yankee November Two.(KW2) (Mossad -LOGS)
6666.5 Unid 0421 USB The conversations have been here for several days... Spanish I think...both female and male...wouldn't mind knowing the general location of this chatter...just curiosity. (JC5) (Ary sez lot's of Spanish pirate amateurs are found here -LOGS)
6745 Numbers Station 0046 USB YL English language repeating Charlie India Oscar Two.(KW2) (Mossad -LOGS)
6845 F SLHFM 0257 CW. Haven't seen this one since I left Japan last (DW2)
6848 UNID: 1953 USB 6 tone mm (ANEU)
6856 UNID 0419 CW 5LG traffic. Ended at 0429z w/no formal sign-off Q-sigs or prosigns. (DW2)
6871 HEP7: INTERPOL Zurich (CH) 1945z CW v-mkr (ANEU)
6873 Voice of America, Greenville, NC: (USA) 0055z LSB Feeder to ?? EE PRG (ANEU) VOA feeder Greenville NC 0432 LSB w/listeners' mail (RM)
6880 UNID (I): 1940 USB sx II m OPs, no "Cambio"-pirates, sounds official, ment.:"Guadia di Fianza" & "Carabinieri" (ANEU)
6959 UNID numbers SPY?: 2140 USB f EE 5FG'ss, ea grp 2 times. (ANEU)
7042.5 Unid 0457 LSB One of the more boisterous Spanish coms I've heard!!! Laughter on top of laughter! (JC5)
7540 "JSR" 1258 AM Phonetic Alphabet (EE/YL/5L) (CK) (Mossad -LOGS)
7604 CIO2: 1945 AM MOSSAD numbers station previously on 6745 This is still in the previous phonetic YL voice as before.(NS)
7668 UNID: 8BY 1848 CW "VVV (3x) 8BY (3x) 396/958/020/097/532 (ANEU)

8BY: 2141 CW cq (DG) (Ary sez French Intelligence -LOGS)
7760 UNID 0645 USB OM & YL chatting. Sounded like MARS net pp but no calls heard. Both speakers using over to end each transmission. (DW2)
7788 Unid Chinese stn 0830 USB pp in Chinese (AW)
7818 UNID Spy bcast: 1700z USB EE f, 3x2 fgr-grps (ANEU)
7851.5 LN2A: PTT Sveio Beacon (NOR) 1834 CW/Data, CW id on 7851.5. (ANEU)
7855 Unid: 1655 CW 5LGS (GD2)
7909 Unid: 0125 USB ANDVT tfc. (RB)
8005 RCD33: 1825 USB RR Radio Moscow, Feeder (ANEU)
8016.5 Unid 1534 USB OM & YL comms in Spanish (RM)
8029 Numbers Station (CIA Counting?) 0310/0341 USB YL repeats "004" three times, then counts 1 thru 0, & repeats. (RB)
8048.5 Unid net chatter. Seemed to be working on a computer setup. (JJ)
8095 UNID russian sx Net: 1550 USB RR m/f, 1 stn id: "Crysantema" (ANEU)
8125 KIT88: 1505 USB FAA Martinsburg WV closes down NARACS Eastern Region Net. Acted as net control because KDM50 FAA Hampton GA had malfunctioning eqpmt and could not lead net. KLD70: 1514 USB FAA Nashua NH clg KDM50 FAA Hampton GA. No joy for reason already mentioned. KIT88: 1523 FAA Martinsburg WV wkg KCD73 FAA Islip NY 1525 KIT88 wkg KEM80 FAA HQ Wash DC (RM)
8180 UNID: 1420 CW 5LG's, msg block starts w/"BT NR 06 J21 6:25:06 96 BT", QRT 1430z (ANEU)
8188 Unid 1010 USB German female number station. (SM)
8307 UNID: 1705 CW cont. giving figure 1, QRT after more then 5 min.(ANEU)
8320 UNID: 1505 USB m sx Arabic, ment.: Beirut/Istanbul, ships?, bandplan? (ANEU)
8320 Unid: 1204 USB cherry tune then numbers sounds like what was on 8014. a few weeks ago. (EW)
8332 UNID; 1550 USB sx II QSO between m & f, "Cambio", also a small child, clg him "Papa", daily hrd, pirate/ship-OP to home?, bandplan? (ANEU)
9220 Unid number sta UTC? MODE? 1yl in ss 2/3 ng (RT2)
9251 1800 USB Licolnshire Poacher (E-3), id "19568" (CK)
10000 WWV Ft Collins CO,USA 0134 AM std cont (RHB)
10020 UNID: 1730 USB sx m FF, "a vous" as 'over', bandplan? (ANEU)
10040 UNID: 2100 USB sx m Far Eastern (Asia) language, pirates?, bandplan? (ANEU)
10043 Unid 0021 USB in either CAN or USA. 2 OM/EE chitchat. Non-aeronautical comms (RM)
10047 UNID: 2030 USB sx m/f SS, "cambio", pirates?, bandplan? (ANEU)
10050 UNID: 1730 USB sx m/f II, "cambio", pirates?, bandplan? (ANEU)
10055 UNID: 1720 USB sx m sounds japanese, "over", bandplan? (ANEU)
10230 Unid Island net 1020 USB pp in unid language (AW)
10248 8BY Unid CW sta Unid 0152 CW Marine? id tape: VVV VVV VVV 8BY 8BY 8BY 854/020/058/532/.(RHB) (Ary sez French Intelligence -LOGS)
10297 Moskwa Meteo, RUS 1745 USB f RR Volmet s/off with "Moskwa Meteo konjez" (ANEU)
10352 Unid: 1510 AM Mossad h+00 xmission, prob Cairo station CIO2 callup. (ANEE)
10454 VOA feeder Greenville NC 1854 USB w/nx in II on and slowly spoken nx in EE on LSB(RM)
10493 WGY911 (FEMA HQ, Wash. DC) 1515 wkg WGY 912 (FEMA Mt. Weather, Va) w/signal check. WGY914 (FEMA, listed as Canal Zone...anyone know if this is still correct?) 1716 wkg WGY912 w/radio check. NIGHTWATCH 01 1634 wkg WGY901 (FEMA Federal Regional Center, Region 1, Maynard, MA) passing message: H191635. KEM80 (FAA HQ, Washington, DC) 1751 wkg WGY912 (FEMA Emergency Assistance Center, Mt. Weather, VA) checking into the net in response to hurricane Bertha. KGF615 (or maybe KDF 615) 1755 wkg WGY 912 amidst heavy QRM at my QTH. (MJ)
10717 Unid Island net 0655 USB pp in unid language (AW)
10766 Unid: 0815 USB asian? language (ANEE)
10825.5 4XML V BFR7: 1034 CW repeats over and over. (EW)
10987 UNID: 1535 CW cont. "HIGK HIGK HIGK QTA ZQF AR" (ANEU)
11055.5 2 Chinese stn 0650 LSB pp in Air band (AW)
11063 Unid 1552 USB rolling code speech inversion(RM)
11067 Unid 1938 USB speech scrambler (RM)
11071 Unid 1536 USB rolling-code speech inversion (RM)
11111 Unid 1554 USB 2 OM in SS. (RM)
11123 UNID number SPY: 1540 USB EE f 3x2 fig grps (ANEU)

11172 Unid 1013 USB Italian Simplex. Male & Female. (SM)
11256 Unid phone net in PNG 0833 USB stations talking local language (AW)
12190 Unid 1603 AM numbers station w/female repeating 591,591,591,0000, 0000 (SW3)
12202 Unid: 2109 CW 5FG 0 cut as T. Ends 2109 w TTT TTT (RM)
12370 2 unid stations 0615 pp. EE w/Indian accent. (AW)
12610.5 RUF9: Unid 0800 CW w/CQ marker. (AI)
13165.5 Unid 2352 USB w/raspy sliding tones(RM)
14303 German Maritime Mobile net 1015 USB. Amateur but interesting. (SM)
14325 Hurricane Watch Net 0313 USB just ending, passed traffic on hurricane watch area and then thanked all participants. (LB2) N1OTC: 2138 USB wkg N6LJO (Net Op) in the Hurricane Watch Net. N1OTC passed info on Venezuelan freighter in distress and sinking near the U.S. Virgin Islands. Weak. (MM2)
14356.2 Unid 1317 USB OM & 2 YL in Spanish (RM)
14356.3 Unid 1554 USB 2 OM in Spanish (RM)
14366.9 Unid 1322 USB 2 OM in Spanish (RM)
14378 Unid: 1324 USB 2 OM in Portuguese (RM)
14487 Unid: 1400 USB MI6 #s station til 1415 (ANEE)
14686.3 Unid 1259 CW ROU diplo w nw qtc 1 qfp 2 all.sk pse qsy 12.nw pse qsy 44. Second CW sta. on 14687 w/reply fol'd by third CW sta. on 14686.3. First sta. goes to crypto mode ROU-FEC 164.5/400 at 1302. (RM)
14750 Unid: 1320 AM Mossad h+15 xmission, prob Cairo station CIO2 callup. (ANEE) Mossad 1346 USB YL/EE (Israel's Mossad) rpts Charlie India Oscar 2 (RM)
15000 WWV 0340 Fort Collins ,CO,USA AM std cont OM ann (RHB)
15997 Unid: 1123 CW weak hand morse about 20wpm. too weak to determine language. (DW)
16480 Palma de Mallorca 0730 USB tfc (ANEE)
18467 Medecins du Monde (mdm) Laghouat, Algeria 0915 USB tfc to Brussels? til 1000 (ANEE)
20386 Unid: 1015 USB unid african (liberia?), used 'roger' (ANEE)

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Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS Club ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ WUNNEWS Vol. 2, No.08 August, 1996 ////
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From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

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o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

The biggest news this month is that not much has changed. Over the last couple of months, membership levels have not changed very much. That can be said for August as well. The following chart shows this pretty well. Considering the number of people who are both utility listeners and have internet access, the figures are impressive.

	August	July	August 1995
WUN	635	635	406
WUNNEWS	186	188	133
WUN-DIGEST	71	73	---
Mail	43	41	---

Members represented 30 countries this month. We did not have members from any new countries this time. As promised, I have completed a survey of the members who have submitted information to the database of listening preferences. In some cases there will be overlap. For example, those of you who enjoy listening to military aero traffic will get mixed in with the civil aero listeners. That kind of combination was necessary because of the way

people responded to the question. Also, almost everyone indicated multiple interests so the number of responses greatly exceeded the number of people in the database.

Now, for the results. Drum roll please.... and the winners are: Aero 81, Military 60, Marine 47, Digital 38, All (including digital) 17, Weather (both wefax and volmet) 14, US Coast Guard 12, All (no digital modes) 10, Numbers Stations 8, HAM Radio 7, Diplomatic Services 7, Drug Interdiction 5, CW Stations 4, CW Markers 4, Long Wave 4, Customs 4, Press 3, Hurricane Hunters 2, Time Stations 1, Antarctic Bases 1 and Clandestine 1.

Speaking of the members database, its never too late to e-mail your information. If you're sending me a revision please indicate that in your e-mail. If you want to become part of these surveys, please answer the questions asked in the member's survey. Here is the survey:

E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested. That does it for August. Next month I'll do a survey of the decoding gear used by those of you into the digital modes.

Mike

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INTERNATIONAL CIVIL AERO

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Welcome back to the column that never ends: it's INTERNATIONAL CIVIL AERO!!

In this edition of ICA, we have a special news flash regarding a new LDOC discovered by intrepid WUNner Ringo Starr, Chicago LDOC serving (so far) United Airlines on 5535, and frequencies for Berna R. LDOC, Switzerland. We have the usual AIRLINE news updates, and unfortunately no SELCAL CORNER this month. Vic has just informed me that he has lost his hard drive due to a massive failure, and with it all his programs and files! Stiff upper lip, mate!

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CHICAGO LDOC on 5535

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On August 23, 1996 a new LDOC was noted operating on 5535 kHz working United 964 en route KIAD-LSZH. The station IDed as Chicago and Chicago Dispatch and was clearly not a phone patch but a direct connection from aircraft to LDOC. I am hoping that by next month, with your help, we'll get to the bottom of this! Try around 0430 for redispatch messages...

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BERNA RADIO LDOC-FREQUENCIES

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In response to a few requests lately on the WUN list, we thought it would be a good idea to give you a refresher on Berna's frequencies:
3010/4654/4670/4702/6526/6643/6705/6742/8936/9211/10069/13205/13266/13324/13593/15046/15050/15835/17931/18023/18480/19554/20035/20870/21933/21988/23285/25500

The most active frequencies at the moment seem to be 4654/6643/8936/10069.

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PHILIPPINES has placed the A340 into service on many of its routes to Europe, most with intermediate stops in Bangkok. PR722/PR742/PR744 to Frankfurt, PR722/PR730/PR734 to London Gatwick, and PR742/PR744 to Paris Charles de Gaulle are the flights involved. Flights heading back to Manila use one number higher. They have also leased MD11's from World Airways on a long-term basis and use them on the following flights:

PR209	Manila-Melbourne	Tues/Thurs/Saturdays
PR210	Sydney-Manila	Wed/Fri/Sun
PR212	Melbourne-Manila	Mondays
PR213	Manila-Brisbane	Fridays
PR214	Brisbane-Manila	Saturdays
PR414	Manila-Pusan	Thurs/Sun
PR415	Pusan-Manila	Thurs/Sun
PR416	Manila-Seoul	Thursdays
PR418	Manila-Seoul	Fri/Sat/Sun
PR419	Seoul-Manila	Fri/Sat/Sun

EMIRATES now has 777 service to and from Dubai and Abu Dhabi to London Heathrow
effective September 1:

EK001	dep Dubai 0730 arr LHR 1210	Daily
EK002	dep LHR arr Dubai 2345	Daily
EK003	dep Dubai 1445 arr LHR 1930	Daily
EK004	dep LHR 2045 arr Dubai 0645+1	except Wed.
EK005	dep Dubai 1305 arr Abu Dhabi 1440 arr LHR 1930	Wednesdays
EK006	dep LHR 2045 arr Abu Dhabi 0650+1 arr Dubai 0815+1	Wednesdays

TRANSAERO Russia has begun flights to Los Angeles from Moscow-Sheremetyevo using DC10-30's leased from AMERICAN. Callsign is TSO or TRANSAERO and flights are TB321 SVO-LAX on Tuesdays, departing Moscow 1500 arr LAX 1840, TB322 LAX-SVO departs LAX 1800 arr SVO 1650+1 on Sundays, TB331 SVO-LAX operates on Tuesdays and TB332 operates on Sundays under a code share with KRASNOYARSK-AVIA. AEROFLOT's IL-96 is back at it on the Moscow-Sal-Rio de Janeiro-Sao Paulo giant long-haul service: SU353 operates on Wednesdays southbound and SU354 operates on Thursdays northbound. To Buenos Aires SU351 flies from Moscow on Sundays with an intermediate stop in Sal, as does the return SU352 operating on Tuesdays. VIRGIN ATLANTIC will commence nonstop London Heathrow-Johannesburg A340 service effective October 2. From September 23rd VIRGIN will lease a MARTINAIR 767-300ER which will operate the Manchester-Orlando route, freeing up the A340 currently used on the route to start the new service to South Africa. VS015/VS016 London Gatwick-Orlando service is now being operated by 747-400's...LAKER has the following scheduled routes effective September:

6F501	Manchester-Orlando	Saturdays
6F502	Orlando-Manchester	Saturdays
6F502	Orlando-Manchester	Sundays
6F505	Manchester-Orlando	Mondays
6F505	Glasgow-Orlando	Fridays
6F506	Orlando-Glasgow	Fridays
6F611	London-Gatwick-FLL	Mondays/Fridays
6F612	London-Gatwick-FLL	Mondays/Fridays
6F613	London-Gatwick-MIA	Tuesdays/Saturdays/Sundays
6F614	MIA-London-Gatwick	Tuesdays/Saturdays/Sundays

Finally, UNITED has adjusted its aircraft on the Chicago-Frankfurt route as follows:

UA940 ORD-FRA operated by 777
UA941 FRA-ORD operated by 744

Also, you'll find the 777 now operating on the Washington Dulles-Amsterdam flights, UA946 IAD-AMS and UA947 AMS-IAD.
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It's been a bit light this month in the way of contributions, must be that old summertime break, eh? We'll be back next month with more of the best and the latest in INTERNATIONAL CIVIL AERO: from your ICA Team, 73 and good DX!

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ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor

****
1. FOLLOW UP TO PREVIOUS NEWSLETTERS
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Only one item this month, which is the replies received following the request from Ingvar Ohlsson last month concerning RAF callsigns. The following is believed to be the current situation but as usual if you know better then please let us know.

.....

CALLSIGN ALLOCATIONS

RAF CIC Andover	- 1000
VC-10 C1	- 2000 series
Tristars	- 3000 series
Hercules C1	- 4000 series
Hercules C3	- 5000 series
Islanders	- 7500 - 7599
Islanders	- 7900 - 7999
Tanker/Receiver	- 9000 series

Standard Relay List showing Operating Authority:-

A	RAF Brize Norton	N	LTW RAF Lyneham
B	RAF Brize Norton	O	LTW RAF Lyneham
C	10 Sqn RAF Brize Norton	P	LTW RAF Lyneham
D	10 Sqn RAF Brize Norton	Q	(was 60 Sqn RAF Benson)
E	RAF Brize Norton	R	32 Sqn RAF Northolt
F	216 Sqn RAF Brize Norton	S	RAF Northolt
G	RAF Brize Norton	T	(was 115 Sqn RAF Benson)
H	RAF Brize Norton	U	Queen's Flight,RAF Northolt
I	10 Sqn RAF Brize Norton	V	Kittyhawk Ops, RAF Northolt
J	RAF Air Ops, RAF Odiham	W	Kittyhawk Ops, RAF Northolt
K	LTW RAF Lyneham	X	RAF Brize Norton
L	LTW RAF Lyneham	Y	RAF Brize Norton
M	LTW RAF Lyneham	Z	LTW RAF Lyneham

QUEEN's FLIGHT.
Based at RAF Northolt, the Queens Flight is responsible for all air travel arrangements for the British Royal Family.

RAF SELCAL CODES

AHBJ	RAF Benson		
AHBK	RAF Northolt		
AHBM	RAF Northolt		
AHCD	Bae 125	XW788	32 Sqn RAF Northolt
AHCE	Bae 125	XW789	32 Sqn RAF Northolt
AHCG	Bae 125	XW790	32 Sqn RAF Northolt
AHCJ	Bae 125	XW791	32 Sqn RAF Northolt
AHCK	Bae 125	XX507	32 Sqn RAF Northolt
AHCL	Bae 125	XX508	32 Sqn RAF Northolt
AHDF	Bae 125	ZE395	32 Sqn RAF Northolt
AHDJ	Bae 125	ZE396	32 Sqn RAF Northolt
AHGJ	C-130	XV176	LTW RAF Lyneham
AHGK	C-130	XV177	LTW RAF Lyneham
AHGL	C-130	XV178	LTW RAF Lyneham
AHGM	C-130	XV179	LTW RAF Lyneham
AHJK	C-130	XV180	LTW RAF Lyneham
AHJL	C-130	XV181	LTW RAF Lyneham
AHJM	C-130	XV182	LTW RAF Lyneham
AHKL	C-130	XV183	LTW RAF Lyneham

AHKM	C-130	XV184	LTW RAF Lyneham
AHLM	C-130	XV185	LTW RAF Lyneham
AJBD	C-130	XV186	LTW RAF Lyneham
AJBE	C-130	XV187	LTW RAF Lyneham
AJBF	C-130	XV188	LTW RAF Lyneham
AJBG	C-130	XV189	LTW RAF Lyneham
AJBH	C-130	XV190	LTW RAF Lyneham
AJBK	C-130	XV191	LTW RAF Lyneham
AJBL	C-130	XV192	LTW RAF Lyneham
AJBM	C-130	XV193	LTW RAF Lyneham
AJCD	C-130	XV194	LTW RAF Lyneham
AJCE	C-130	XV195	LTW RAF Lyneham
AJCF	C-130	XV196	LTW RAF Lyneham
AJCG	C-130	XV197	LTW RAF Lyneham
AJCH	C-130	XV198	LTW RAF Lyneham
AJCK	C-130	XV199	LTW RAF Lyneham
AJCL	C-130	XV200	LTW RAF Lyneham
AJCM	C-130	XV201	LTW RAF Lyneham
AJDE	C-130	XV202	LTW RAF Lyneham
AJDF	C-130	XV203	LTW RAF Lyneham
AJDG	C-130	XV204	LTW RAF Lyneham
AJDH	C-130	XV205	LTW RAF Lyneham
AJDK	C-130	XV206	LTW RAF Lyneham
AJDL	C-130	XV207	LTW RAF Lyneham
AJDM	C-130	XV208	LTW RAF Lyneham
AJEG	C-130	XV209	LTW RAF Lyneham
AJEH	C-130	XV210	LTW RAF Lyneham
AJEK	C-130	XV211	LTW RAF Lyneham
AJEL	C-130	XV212	LTW RAF Lyneham
AJEM	C-130	XV213	LTW RAF Lyneham
AJFH	C-130	XV214	LTW RAF Lyneham
AJFK	C-130	XV215	LTW RAF Lyneham
AJFL	C-130	XV216	LTW RAF Lyneham
AJFM	C-130	XV217	LTW RAF Lyneham
AJGL	C-130	XV218	LTW RAF Lyneham
AJGM	C-130	XV219	LTW RAF Lyneham
AJHK	RAF Northolt		
AJHL	C-130	XV220	LTW RAF Lyneham
AJHM	RAF Northolt		
AJKL	C-130	32 Sqn	RAF Northolt
AJKM	VC-10	XR807	10 Sqn RAF Brize Norton
AJLM	C-130	XV221	LTW RAF Lyneham
AKBD	C-130	XV222	LTW RAF Lyneham
AKBE	C-130	XV223	LTW RAF Lyneham
AKBG	C-130	XV290	LTW RAF Lyneham
AKBH	C-130	XV291	LTW RAF Lyneham
AKBJ	C-130	XV292	LTW RAF Lyneham
AKBL	C-130	XV293	LTW RAF Lyneham
AKBM	C-130	XV294	LTW RAF Lyneham
AKCE	C-130	XV295	LTW RAF Lyneham
AKCF	C-130	XV296	LTW RAF Lyneham
AKCH	C-130	XV297	LTW RAF Lyneham
AKCJ	C-130	XV298	LTW RAF Lyneham
AKCL	C-130	XV299	LTW RAF Lyneham
AKCM	C-130	XV300	LTW RAF Lyneham
AKDF	C-130	XV301	LTW RAF Lyneham
AKDG	C-130	XV302	LTW RAF Lyneham
AKDH	C-130	XV303	LTW RAF Lyneham
AKDJ	C-130	XV304	LTW RAF Lyneham
AKDL	C-130	XV305	LTW RAF Lyneham
AKDM	C-130	XV306	LTW RAF Lyneham
AKEG	C-130	XV307	LTW RAF Lyneham
AKHL	RAF Northolt		
AMGH	L-1011C	ZD950	216 Sqn RAF Brize Norton
AMGK	L-1011C	ZD951	216 Sqn RAF Brize Norton
AMJK	L-10111	ZD952	216 Sqn RAF Brize Norton
BDAM	L-10111	ZD948	216 Sqn RAF Brize Norton
BDFM	L-10111	ZD949	216 Sqn RAF Brize Norton

BKCL	VC-10C1	XR808	10 Sqn RAF Brize Norton
BLGK	VC-10C1	XR810	10 Sqn RAF Brize Norton
BLHJ	VC-10C1	XV101	10 Sqn RAF Brize Norton
BLHK	VC-10C1	XV102	10 Sqn RAF Brize Norton
CFAB	VC-10C1	XV103	10 Sqn RAF Brize Norton
CFAE	VC-10C1	XV104	10 Sqn RAF Brize Norton
CFAH	VC-10C1	XV105	10 Sqn RAF Brize Norton
CFDE	VC-10C1	XV106	10 Sqn RAF Brize Norton
CFDM	VC-10C1	XV107	10 Sqn RAF Brize Norton
DHKM	VC-10C1		RAF Brize Norton
DJAE			RAF Brize Norton
DJAH			RAF Brize Norton
DJBC	L-1011	ZD952	216 Sqn RAF Brize Norton
DJFH	BAe 125	ZD620	32 Sqn RAF Northolt
DJFK	BAe 125	ZD621	32 Sqn RAF Northolt
DJFL	BAe 125	ZD704	32 Sqn RAF Northolt
DJFM	BAe 125	ZD703	32 Sqn RAF Northolt
DJKL			RAF Northolt
EFAD	VC-10K2	ZA140	101 Sqn RAF Brize Norton
EFAG	VC-10K2	ZA141	101 Sqn RAF Brize Norton
EFAH	VC-10K2	ZA142	101 Sqn RAF Brize Norton
EFAJ	VC-10K1	ZA143	101 Sqn RAF Brize Norton
EFAK	VC-10K2	ZA144	101 Sqn RAF Brize Norton
EGAJ	VC-10C1	XR806	10 Sqn RAF Brize Norton
EGAK	VC-10C1	XV108	10 Sqn RAF Brize Norton
EGAL	VC-10C1	XV109	10 Sqn RAF Brize Norton
EMBQ	BAe 146	ZE702	Queen's Flight RAF Northolt
KMDG	L-1011-KC1		ZD953 216 Sqn RAF Brize Norton
LMBD	BAe 146	ZE700	Queen's Flight RAF Benson
LMBE	Bae 146	ZE701	Queen's Flight RAF Benson
LMBJ	L-1011-500C		ZE704 216 Sqn RAF Brize Norton
LMBK	L-1011-500C		ZE705 216 Sqn RAF Brize Norton
LMFG	VC-10K1	ZA149	101 Sqn RAF Brize Norton
LMFK	VC-10K1	ZA148	101 Sqn RAF Brize Norton
LMGK	VC-10C1/1K		10 Sqn RAF Brize Norton Ascot mission Nos. 876-885

RAF FLIGHT WATCH CENTRES
STRIKE COMMAND INTEGRATED COMMUNICATIONS SYSTEM (STCICS)
2.591 H24 6.739 (a) H24 11.204 (a) H24 15.031 (b) H24
4.540 (b) H24 8.190 (b) H24 11.234 H24 18.018 (a) H24
4.742 (a) H24 9.031 (a) H24 13.257 (b) H24 23.220 (a) H24
5.714 (a) H24

(a) H+00 QNH broadcast: H+30 Airfield colour state broadcast.
(b) H+15 and H+45 RAF Germany airfield flying states.
Selcal and phone patch available.
Callsign: ARCHITECT

ASCENSION
11.234 (a) H24 9.031 (a) 08-2000 4.742 (a) 20-0800

(a) Weather broadcast H+45
Flight watch available for notified flights.
Selcal only.
Callsign: HAVEN

CYPRUS
4.730 (a) H24 9.031 16-0500 11.234 H24 18.018 (a) 05-1600

(a) Weather Broadcasts H+15 Actuals for AKROTIRI and LARNACA will be broadcast during period
3hrs until 2 hrs after published opening hours of AKROTIRI, other times on request.
Selcal and phone patch available.
Callsign: CYPRUS FLIGHT WATCH

GIBRALTAR (Forward Relay)
4.742 20-0700 11.234 07-2000

Selcal only.
Callsign: GIBRALTAR

MOUNT PLEASANT (Falkland Islands)
Flight Watch available for notified flights. Frequency will be based on local HF predictions and will be arranged pre-flight for all southbound aircraft.
Weather broadcasts H+15 when active.
Callsign: VIPER
.....
SPECIAL NOTE: The RAF will be getting a lot of brand-new C-130J's over the next few years. The first one is already flying with Lockheed's at Marietta, Georgia and should be delivered to the UK either very late this year or very early next year. Mmmm, lots of new selcals to get!
.....
As I said at the beginning some of the above may be out of date, if you can add to or amend this data please let us know here at ASKWUN.

This information has been provided by two of our special correspondents. And that brings us to the end of this programme.

'till next time, Colin.
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DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Howdy gang! I have only three items for you this month. As I am puzzled what you dudes want to read about in the Digital Review, please let me know. Suggestions for topics are much appreciated. If you want to share info with us, please do send it to me. Even if you think that it isn't interesting, do send it anyway as it may be of interest to other dxers. Everything is welcome. Klaus and Day, thanks for your contributions this month.

Loggings..... a suggestion: When I am browsing thru the digital loggings every month, I noticed that often the name of the station is mentioned while the details show that only an idling signal was copied. Why mention a station when you haven't seen any traffic? It happens very often that the station that is listed on that frequency in the guides isn't there anymore, the French government and military stations very often change frequency, to mention just a few. Therefore I would like to suggest that in similar cases the station name will be left out or will be mentioned as tentative,
e.g. 3451 kHz, Unid station idling in ARQ-E3
or 3451 kHz, MFA Paris (tent.) idling in ARQ-E3
or 3451 kHz, Unid station idling in ARQ-E3 (MFA Paris listed)

Enjoy! -Ary-

GMDSS revisited

1 February 1999 is only 2,5 years away and the conversion to GMDSS is way behind schedule.....

With this article I hope to answer the questions that reached me during the past few months. For detailed info about GMDSS, please read also the Digital Reviews in newsletters '95#12 and '96#5 (false alerts) + the Nautical column in newsletter '96#7.

1 February 1999 is the date that all sea-going vessels have to be equipped for GMDSS but.... ship fittings are way below target and the shore infra-structure is similarly lagging behind. Australia is an example of what can be achieved: virtually all Australian-flag ocean-going vessels are now GMDSS-equipped! Many other countries however haven't done anything yet or have just started. Of 109 Croatian-flag merchant ships, just 1 is fully equipped. According to the British MSA, more than 75% of the world's fleet has yet to be converted and with the current annual rate of conversion (5%) it's going much too slow to meet the Feb.'99 deadline.

What does this mean? When we look at the bright side, we -dxers- can enjoy listening to the maritime bands a little while longer. On the other hand, GMDSS is a Distress and Safety System and when fully implemented, it will hopefully help to make sailing safer that it is today. Furthermore, several European ports like Bremen and probably also Rotterdam and Antwerp may impose unilateral sanctions against vessels who missed the GMDSS deadline.

In May I told you about the many HF DSC false alerts. During the International GMDSS conference in Plymouth a few months ago, the level of false alerts was described as 'intolerable' and 'appallingly high'. Almost all of the HF DSC alerts received by Australian coastal stations in the past three years have been false. This amount diminishes the HF DSC system as a distress alerting mechanism seriously. Following concern about the number of false alerts through the Inmarsat-C system, Inmarsat has established an alert quality control system. Every distress alert sent via Inmarsat is now tracked. When the alerted RCC says that the alert was false, Inmarsat will take up the matter with the ship or the owner. To prevail false alarms Inmarsat's new DSC-terminal specifications include a protected push-button instead of the unprotected buttons currently used. Pressing the button by error should be impossible now.

o Here are the MF/HF frequencies again:
    490.0 - after full implementation of the GMDSS this freq will be used exclusively for NAVTEX (local NAVTEX). Mode: NBDP
    500.0 - D&S traffic. Untill implementation of the GMDSS is completed, this freq will also be monitored. Mode: CW
    518.0 - international NAVTEX. Mode: NBDP
   2174.5 - D&S traffic. Mode: NBDP
   2182.0 - D&S traffic. Mode: USB
   2187.5 - D&S traffic. Mode: DSC
   3023.0 - SAR traffic. Mode: USB
   4125.0 - D&S traffic. Mode: USB
   4177.5 - D&S traffic. Mode: NBDP
   4207.5 - D&S traffic. Mode: DSC
   4209.5 - NAVTEX-type traffic. Mode: NBDP
   4210.0 - Maritime safety info by coastal stations. Mode: NDBP
   5680.0 - SAR traffic. Mode: USB
   6215.0 - D&S traffic. Mode: USB
   6268.0 - D&S traffic. Mode: NBDP
   6312.0 - D&S traffic. Mode: DSC
   6314.0 - D&S traffic. Mode: NBDP
   8291.0 - D&S traffic. Mode: USB
   8376.5 - D&S traffic. Mode: NBDP
   8414.4 - D&S traffic. Mode: DSC
   8416.5 - D&S traffic. Mode: NBDP
  12290.0 - D&S traffic. Mode: USB
  12520.0 - D&S traffic. Mode: NBDP
  12577.0 - D&S traffic. Mode: DSC
  12579.0 - D&S traffic. Mode: NBDP
  16420.0 - D&S traffic. Mode: USB
  16695.0 - D&S traffic. Mode: NBDP
  16804.5 - D&S traffic. Mode: DSC
  16806.5 - D&S traffic. Mode: NBDP
  19680.5 - D&S traffic. Mode: NBDP
  22376.0 - D&S traffic. Mode: NBDP
  26100.5 - D&S traffic. Mode: NBDP

o Abbreviations:
  SAR   - Search and Rescue
  D&S   - Distress and Safety
  GMDSS - Global Maritime Distress and Safety System
  DSC   - Digital Selective Calling
  NBDP - Narrow Band Direct-Printing

o Modes:
  DSC   - Digital Selective Calling is a variation of Sitor-B, 100 baud 170 shift, but uses a special set of 127 symbols with a 10 bit error correcting code. The system is defined in

the ITU recommendation ITU-R M493-6. A DSC signal is short, ca 6-7 seconds on MF/HF and contains the following: station ID, priority, station being called, frequency to use. This system is used to establish the initial contact between ships and shore stations using GMDSS.

NBDP - Narrow Band Direct-Printing isn't a system in itself but a type of telegraphy for which mostly SITOR-B is used.

SITOR-B - A FEC system used by Marine Information services and the Amateur Radio community, typically 100 bd but an odd baud rate of 109.4 has also been monitored. Also known as FEC or AMTOR.

CW - Morse code still used by the Amateur community and Marine operations. Speed varies depending on whether hand generated or machine generated.

USB - Upper Side Band voice / radiotelephony.

Sources: Inmarsat/Ocean Voice, ITU, WUN's Digital Modes FAQ v4.0

Diplo Corner

o Bulgarian diplo: in the March edition of the diplo corner, callsigns Z2F16 / OFC were listed as 'Havana'. Please read 'Harare' instead.

This time Austria visits the Diplo Corner and as usual most of the stuff comes from Day Watson.

o Logged frequencies:

5070.5	7892.5	7896	10413	10422.5	14478.5	14487	14488.5
14518	14523	18582.5	20494	20742	20750		

Reported frequencies:

7880	7891.5	7893.5	7894	9399	10298	10421.5	10425.5
10488.5	13617	14481	14482	14520	16132.5	16133	16164
17459	18411.5	19730	19810.4	19928.5	20480	20494	20750
20753.5	20973.5						

o Transmission modes used:
ARQ/S 96bd / N / 185 / 5 and 6CRC
FEC/A 96bd
FEC/S

o Notes on operation:
[SUN]
Language: German, English
Single freq. ops
Chatty opr exchanges, with names
Uses OVER+ to transfer, and CLEAR+ to terminate
Offline encrypted traffic in 5 letter groups. First group always ZZZZZ followed by groups 2-6 the same. Final group also ZZZZZ .

o Reported callsigns/selcals for parent MFA/Embassies:

OEC21	Warsaw	OEC35	New Delhi
OEC36	Beijing	OEC44	Tel Aviv
OEC51	Cairo	OEC52?	Lisbon
OEC57	Pretoria	OEC61	Rome
OEC64	Lagos	OEC72	Lisbon
ONN45	Brussels	Selcal	KFFX

o Dictionary:

Aussenamt	MFA (Vienna)
austroamb	Austrian Ambassador

o Sample message formats:
Example #1 - offline encrypted message header

```
---------------------------------------------
cccccc jj                                        (message start)

aus austroamb new delhi                               (from Austrian
                                                     Ambassador New Delhi)
an aussenamt wien                                (to MFA Vienna)

2 5 0 6 2                                        (message number)

zzzzz pnojx pnojx pnojx pnojx pnojx fvtzx qgayy kjhmv gzkfs
kwehu yrnpp hhbcm sepgc pozoy ywhsi nwftb nrpro hdexz phhqk
<clip clip>

Example #2 - encrypted message page break
-----------------------------------------
dlwrb xlmmq iaqxj dqobv ftrhy eccnf rnecl mctcx qqtvu bklqa
ej~~u~ovoyb kshmd teddh gwxrl sewxn wvqri zrqzs uwvle pughh

page 2 new delhi25062                 (page nr/originator/message nr)
rirnd aurfx npm~b ttgro ujlmy ylxxt sthqj ohnrl uuufr oukmm
czfkn denlb wiuxd bikml aobpy hiybt trhsw jkpzl isthq pmvne

Example #3 - operator chatters and end of QSO
---------------------------------------------
best. guten erhalt bzw. loesung von 25062 und 10289 am
30.10.92 um 08:21 utc, aussenamt/mr x

die temperatur ist heute gar nicht so unangenehm, so um die
10 grad plus. wuensche ihnen auch noch einen angenehmen restl.
tag und natuerlich ein wunderschoenes we. aws bis zum nm.

(operator says that the temperature is only 10 degrees and wishes
the other side a fine day and a smashing weekend)

clear++                                          (end of qso)

Example #4 - End of msg and msg relating to passports
-----------------------------------------------------
austroamb lagos                                  (fm Austrian Ambassador)
an                                                    (to)
m i n p a s s  w i e n                            (passports dept Vienna)
/amsenamt wien mit der bitte um weiterleitung    (requests MFA to pass
                                                  the message on)

*** Followed by sensitive info. Sorry folks, I cannot publish that :-))

Example #5 - Part of press summary and signoff
----------------------------------------------
atomteststop: usa/frankreich:       oenn
praes. clinton u. praes. chirac kuendigten an, noch
heuer ein weltweites atomtestverbot erreichen zu wollen. nvb
tuerkei:
die koalitionsgespraeche sind gescheitert. mpin ciller
will ihr mandat zurueckgeben.       wz

Johann Unbekannt hier habe nichts zu senden bin heute etwas frueher
dran da einiges von gestern noch fuerandere bot. uebrig mgebleiben ist

danke bis morgen und aws johann
-------------------------------
```

HF-Fax

Klaus Betke heard fax transmissions from Warsaw Meteo in June on +/- 111.4 kHz but they were probably nothing but a test. He did not hear them again. SOA211 now transmits at about 0600-0730 (06z SYNOPs) and 1800-1930 (18z SYNOPs) in 50bd Baudot.

He also sent me a list of fax stations that he copied this year. Although fax on HF is becoming more and more impopular by the authorities, there is still a lot to catch. For skeds etc., see also Marius Rensen's HF-FAX list on his web-site or on WUN's Home Page.

Sequence: Freq (kHz), station, country, last heard (month/year)

53.6	Moscow Meteo 1, RUS	8/96	111.4	Warsaw Meteo, POL	6/96
144.5	Moscow Meteo 3, RUS	5/96	2017.5	Grengel Meteo, D	2/96
2342	Grengel Meteo, D	6/96	2618.5	Bracknell Meteo, G	8/96
2628	Melbourne Meteo, AUS	4/96	2720	Samara Meteo, RUS	8/96
3280	Tashkent Meteo 1, UZB	8/96	3302	Grengel Meteo, D	2/96
3357	USN Cutler, ME, USA	8/96	3360	Kiyev Meteo, UKR	8/96
3377.3	Ankara Meteo, TUR	8/96	3652	RN London, G	8/96
3657	Arkhangelsk Meteo, RUS	6/96	3690	Tashkent Meteo 2, UZB	3/96
3710	Samara Meteo, RUS	8/96	3810	Mensk Meteo, BLR	8/96
3855	Hamburg Meteo, D	8/96	3875	Moscow Meteo 2, RUS	8/96
4271	CF Halifax, NS, CAN	8/96	4307	RN London, G	8/96
4365	Tashkent Meteo 2, UZB	8/96	4524.5	Cairo Meteo, EGY (LSB)	8/96
4560	Moscow Meteo 3, RUS	8/96	4570	Grengel Meteo, D	6/96
4610	Bracknell Meteo, G	8/96	4616	Taipei Meteo, TWN	8/96
4623	USN Rota, E / Sigonella,I	8/96	4777.5	Rome Meteo, I	8/96
4855	USAF Roosevelt Road, PTR	8/96	5100	Melbourne Meteo, AUS	7/96
5102	Samara Meteo, RUS	8/96	5150	Moscow Meteo 1, RUS	8/96
5285	Kiyev Meteo, UKR	8/96	5285	Tashkent Meteo 1, UZB	7/96
5325	Alma Ata Meteo, KAZ	8/96	5347	Arkhangelsk Meteo, RUS	6/96
5527	Beijing Meteo, CHN	8/96	5755	Darwin Meteo, AUS	8/96
5807	Auckland Meteo, NZL	6/96	5850	Copenhagen Meteo, DNK	8/96
5865	USN Rota, E / Sigonella,I	8/96	5890	Tashkent Meteo 2, UZB	4/96
6340.5	USCG Boston, MA, USA	8/96	6380	Unid, Amderma Meteo, RUS?	8/96
6446	Murmansk Meteo, RUS	8/96	6452.5	RN London, G	8/96
6496.4	CF Halifax, NS, CAN	8/96	6791	Ankara Meteo, TUR	8/96
6918.5	Madrid Meteo, E	8/96	6950	Kiyev Meteo, UKR	8/96
7398	USAF Roosevelt Road, PTR	8/96	7508	Pretoria Meteo, AFS	2/96
7535	Darwin Meteo, AUS	8/96	7570	Tashkent Meteo 2, UZB	8/96
7582	USN Diego Garcia, DGA	8/96	7670	Moscow Meteo 1, RUS	8/96
7710	CCG Iqaluit, NWT, CAN	7/96	7762	Arkhangelsk Meteo, RUS	8/96
7870	USAF Roosevelt Road, PTR	8/96	7880	Hamburg Meteo, D	8/96
7907	Murmansk Meteo, RUS	8/96	8040	Bracknell Meteo, G	8/96
8080	USN Cutler, ME, USA	8/96	8083	Tashkent Meteo 1, UZB	8/96
8122	Beijing Meteo, CHN	8/96	8140	Taipei Meteo, TWN	8/96
8146.6	Rome Meteo, I	8/96	8331.5	RN London, G	8/96
8444	Murmansk Meteo, RUS	8/96	8467.5	Tokyo Radio (KYODO), J	8/96
8504	USCG New Orleans, LA, USA	8/96	8530	Athens Radio, GRC	8/96
8682	USCG San Francisco, CA,	5/96	9045	Nairobi Meteo, KEN	8/96
9110	USCG Boston, MA, USA	8/96	9150	Tashkent Meteo 1, UZB	8/96
9318	USN Keflavik, ISL	8/96	9340	Tashkent Meteo 2, UZB	8/96
9360	Copenhagen Meteo, DNK	8/96	9927.5	Alma Ata Meteo, KAZ	8/96
9970	Tokyo Meteo 2, J	8/96	10117	Beijing Meteo, CHN	8/96
10121	Cairo Meteo, EGY	8/96	10250	Madrid Meteo, E	6/96
10536	CF Halifax, NS, CAN	8/96	10555	Darwin Meteo, AUS	8/96
10570	Harm. 5285 Kiyev Meteo	6/96	10865	USN Cutler, ME, USA	8/96
10980	Moscow Meteo 2, RUS	8/96	11030	Melbourne Meteo, AUS	8/96
11090	Honolulu Meteo, HWA	6/96	11122	USAF Omaha, NE, USA	5/96
11485	USN Rota, E / Sigonella,I	8/96	11622	USAF Roosevelt Road, PTR	4/96
12165	Moscow Meteo 3, RUS	8/96	12745.5	Tokyo Radio (KYODO), J	8/96
12750	USCG Boston, MA, USA	8/96	12806	USN Diego Garcia, DGA	6/96
13510	CF Halifax, NS, CAN	8/96	13597	Tokyo Meteo 2, J	3/96
13597.4	Rome Meteo, I	8/96	13882.5	Hamburg Meteo, D	8/96
13900	Taipei Meteo, TWN	8/96	13920	Melbourne Meteo, AUS	8/96
13947	Tashkent Meteo 1, UZB	8/96	14436	Bracknell Meteo, G	8/96
14545	Beijing Meteo, CHN	1/96	14692.5	Tokyo Meteo 1, J	5/96
14914	Unid (CIS; UKR?)	8/96	14982.5	Tashkent Meteo 2, UZB	8/96
15781	USAF Roosevelt Road, PTR	8/96	15878	CNA Taipei, TWN	6/96
15959	USN Cutler, ME	8/96	16025	Beijing Meteo, CHN	8/96
16027.5	USN Apra Harbour, GUM	3/96	16035	KYODO Singapore, SNG	8/96
16904	Victoria Harb. Meteo, HKG	6/96	16971	Tokyo Radio (KYODO), J	8/96
17069.5	Tokyo Radio (KYODO)	8/96	17430	KYODO Singapore, SNG	8/96
17445.5	Nairobi Meteo, KEN	8/96	18060	Darwin Meteo, AUS	6/96

18220	Tokyo Meteo 2, J	6/96	18237	Beijing Meteo, CHN	4/96
18238.3	Pretoria Meteo, AFS (LSB)	4/96	18261	Bracknell Meteo, G	8/96
18441	Tokyo Meteo 1, J	6/96	18940	Shanghai Meteo, CHN	6/96
19363	USAF Roosevelt Road, PTR	7/96	19680	CNA Taipei, TWN	8/96
19751.5	Dakar Meteo, SEN (LSB)	8/96	20302	USN Diego Garcia, DGA	1/96
20469	Melbourne Meteo, AUS	3/96			

That's all folks! See ya next month. -Ary-

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T H E W U N M I L I T A R Y C O L U M N

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Hello and welcome to another column, I've had quite a bit of stuff sent to me this month, so lets get down to business...

U.S. COAST GUARD CHANGES
J.D. Stephens obtained some info about changes in the U.S. Coast Guard trying to QSL Group Moriches, NY:

I asked the TCIC at CG Group Moriches, NY about the UNID CG traffic I logged ID'ing as "Coast Guard Activities Baltimore" and here is what he had to say... The Baltimore transmission you heard was from "Coast Guard Activities Baltimore", which used to be Group Baltimore. With budget cutbacks and downsizing came "activities", which is basically just a lot more commands under 1 umbrella (Group Baltimore, Supply Center Curtis Bay, CG Yard Baltimore, and others). The same thing has happened in NYC. The CG is well into the process of moving off of Governors Island, which for years was where the majority of CG activity was located in NYC, however they have already moved CG Atlantic Area offices from GI to the Chesapeake, VA area. Group New York and Group Sandy Hook are in the process of consolidating into Activities NY and will be located on Staten Island.

Interesting changes for sure....thanks J.D.

U.S. NAVY
o The U.S. NAVY received yet another multi-purpose amphibious attack-ship, the USS Bataan. These ships carry everything needed to support a "marine expeditionary unit", about 2000 men. These ships carry also a squadron AV-8B harrier-II bombers, helicopters and even hovercrafts. The medical facility is about 600 beds an the ship has extensive Control, Command, Communication and Intelligence systems.

o Also, a new Arleigh Burke-class Aegis missile destroyer has entered service, the USS Cole (DDG-67). The ship is abt. 8600 metric-tons in size, armed with a 125 mm gun, the MK-41 vertical-launch system to fire a large range of missiles from Tomahawk cruise-missiles to VLA anti-sub rockets. But there is more, Harpoon-missiles, MK-32 torpedo-launchers and 2 MK-15 "Phalanx" rapid-fire cannons. For a good sub-hunt the ship has a AN/SQR-89 system with an AN-SQS-53C bow-sonar and the AN-SQR-19 towed-array sonar. These systems are controlled with an LAMPS-MK-III anti-sub warfare control-system. There is a facility for an SH-60B helicopter, and the radar is an AN/SPY-1D radar. The gas-turbines give this hunter a speed of 30 Knots.

o The USS Seawolf (SSN 21), the Navy's newest and most advanced attack submarine, got underway recently from the Electric Boat Shipyard in Groton, Conn., for initial sea trials. The sea trials are scheduled to last approx. three days during which Seawolf will undergo a series of events, including acoustics trials, engineering inspections and at-sea training for the crew. The new Seawolf-class submarine provides the Navy with advanced weaponry and new tactical capability and communications. Seawolf was designed to be the world's quietest submarine, less detectable at high speed than a Los Angeles-class submarine is while sitting at the pier! Compared to previous SSNs,

it has an increased weapons load of Mark 48 anti-submarine torpedoes, Harpoon missiles and Tomahawk cruise missiles. Seawolf is commanded by CAPT (Sel.) David McCall.

o The second-to-last Ohio-class Trident ballistic missile submarine, USS Wyoming (SSBN 742), was commissioned Saturday, July 13, 1996 at Naval Submarine Base New London, Conn.

Air Force General Eugene Habiger, Commander-in-Chief, U.S. Strategic Command, welcomed the ship and its crew to the strategic forces of the United States. USS Wyoming is the fourth U.S. Naval ship to be named after the 44th state of the Union and is the 17th Ohio-class ballistic missile submarine built by General Dynamics Electric Boat division of Groton, Conn. since 1981. The Trident submarine is 560-feet long and displaces 18,750 tons. USS Wyoming (SSBN 742) arrived at Kings Bay Naval Submarine Base July 26, becoming the ninth submarine to be homeported there.

o (The Last) Flight of the Intruder Attack Squadron (VA) 34 returned to Naval Air Station Oceana, Va., July 23 following the all-weather attack A-6E aircraft's final deployment with the squadron, which first saw service in 1963 during Vietnam.

The final Intruder deployment included air shows in Skrydstrup, Denmark, and Hyeres, France. The squadron will turn in their A-6E Intruders for F/A-18C Hornets and prepare for a home port change to Naval Air Station, Cecil Field, Fla.

o More than 15,000 Sailors, Marines, Airmen, Coast Guardsmen and units from Australia, Canada and Chile participated in Pacific Joint Task Force Exercise 96-2 (PAC JTFX 96-2), a major 3rd Fleet exercise off Southern California Aug. 8-19. PAC JTFX 96-2 involved 20 ships and various types of fixed-wing aircraft and helicopters from the USS Kitty Hawk Carrier Task Group and the USS Essex Amphibious Ready Group. The 11th Marine Expeditionary Unit, embarked in Essex, also participated. The exercise tested weapons systems, logistics support plans, plus search and rescue abilities, and trained participants in command and control, air strike and support operations. Amphibious training ended with an amphibious landing at Camp Pendleton, Calif. PAC JTFX 96-2 is part of a series of exercise's previously named "FLEETEX." The current name reflects the increasing focus on preparing naval forces to participate fully in joint operations with other U.S. forces. Exercise 96-1 produced quite a few good snags by WUN'ers, but I'm not sure what was heard from 96-2 yet.

o USS Inchon (MCS 12), the Navy's first mine warfare command and control ship, and its 685-member crew, arrived at Naval Station Ingleside, Texas, July 20 to begin its new role as the cornerstone of naval operations in mine warfare. Inchon recently underwent a 15-month conversion in Pascagoula, Miss. from an amphibious assault ship to a mine countermeasures command, control and support ship. It will serve as a "floating port," providing a landing platform for MH-53E Sea Dragon minesweeping helicopters and a repair and resupply facility for Avenger-class mine countermeasures ships and Osprey-class coastal mine hunters.

The 602-foot Inchon is the largest of 18 ships homeported at Ingleside. The other ships include 12 mine countermeasures ships: USS Avenger (MCM 1), USS Defender (MCM 2), USS Sentry (MCM 3), USS Champion (MCM 4), USS Devastator (MCM 6), USS Scout (MCM 8), USS Pioneer (MCM 9), USS Warrior (MCM 10), USS Gladiator (MCM 11), USS Ardent (MCM 12), USS Dextrous (MCM 13), USS Chief (MCM 14) and five coastal mine hunters: USS Heron (MHC 52), USS Pelican (MHC 53), USS Oriole (MHC 55), USS Robin (MHC 54), USS Black Hawk (MHC 58).

o The last Trident Ballistic Missile Submarine, Louisiana (SSBN 743), was christened July 27 at Electric Boat, Groton, Conn. Named to honor the 18th state in the union, three previous ships have borne the name Louisiana: a sloop (1812-1821), a sidewheel steamer (1861-1864) and a battleship (BB 19) (1906-1920). Louisiana is the last of 18 Ohio Class/Trident ballistic missile submarines authorized by Congress to be built.

Louisiana was designed for extended patrols and is equipped with the Trident II D-5 missile system. The armament includes 24 missile tubes for Trident II submarine launched ballistic missiles and torpedo tubes for MK-48 torpedoes.

Following the commissioning in 1997, Louisiana will be homeported in Kings Bay, Ga., as part of the Submarine Force, U.S. Atlantic Fleet. Captain Wil Cooke, a native of Marion, Ala., is the prospective commanding officer with a crew of 16 officers and 157 enlisted personnel.

o USS America (CV 66) was decommissioned in a ceremony Aug. 9 at the Norfolk Naval Shipyard in Portsmouth, Va. America returned from its last deployment Feb. 24, where its squadrons flew 250 combat missions over the skies of Bosnia.

The "Nation's Flagship" and crew also distinguished themselves during Operation Desert Storm. America is the only carrier to have launched strikes against Iraqi targets from both sides of the Arabian Peninsula: Red Sea and Persian Gulf. The aircraft carrier was commissioned Jan. 23, 1965, at Norfolk Naval Shipyard.

o The first of the Navy's newest class of oceanographic survey ships, USNS Pathfinder (T-AGS-66) completed its maiden transatlantic voyage Aug. 6, when it pulled into Naples, Italy. Aug. 8, Pathfinder left port to begin its first operational survey in the Mediterranean Sea. The ship is capable of gathering data in both coastal and deep waters.

The Navy conducts surveys outside U.S. territorial waters to measure water depths, variations in the Earth's magnetic field and determine gravity anomalies. Information about the oceans helps the Navy deploy its resources more efficiently and ensures safe navigation for ships of all nations. Pathfinder (international callsign NGKK) has a crew of 55, incl. 27 scientists and survey technicians, and is operated by the Military Sealift Command. The oceanographic surveys are conducted by personnel from the Naval Oceanographic Office, located at the Stennis Space Center in Mississippi. Data is provided to the Defense Mapping Agency where it is compiled into nautical charts.

See the 12490 sitor log of this ship by Rick Baker, apparently on this maiden voyage.

o USS Yorktown (CG-48), assigned to Commander Western Hemisphere Group, Mayport, Fla., is scheduled to deploy in December. It is during this deployment that Smart Ship will enter its third and final testing phase. USS Yorktown will change home port to Pascagoula, Miss., in September.

o More than 2,000 Atlantic Fleet Sailors will participate in NATO exercise Northern Light/Bright Horizon 96, Sept. 8 to 12, in the North Atlantic Ocean and North Sea. The exercise will allow U.S. and NATO forces to conduct combined training in air, surface, submarine and mine warfare. European NATO forces are conducting the exercise, with U.S. and Canadian units participating in key phases. More than 70 ships from Belgium, Canada, Denmark, France, Germany, Greece, The Netherlands, Norway and Spain will participate.

Norfolk-based ships include command ship USS Mount Whitney (LCC 20), USS Arleigh Burke (DDG 51), USS Thorn (DD 988), USS Nicholas (FFG 47), USS Estocin (FFG 15) and USNS Leroy Grumman (T-AO 195). USS Boston (SSN 703), based in Groton Conn., will join the NATO forces. Detachments from Helicopter Antisubmarine Squadron Light 42 and 49 from Mayport, Fla., will embark aboard Nicholas and Estocin. So let's see if this produces any neat comms. Link-11 coordination net's with many accents will be a dead give away!

o The replenishment oiler USS Kalamazoo (AOR 6) ended more than 23 years of service to the fleet when it was decommissioned at Norfolk Naval Base Aug. 16. Named in honor of a city and county in southwest Michigan, the ship delivered cargo and fuel to ships using modern transfer-at-sea equipment and helicopters. During the ship's active service, it had a crew of 22 officers and 398 enlisted personnel. The ship will be towed to the inactive fleet facility in Philadelphia. So scratch NKZO and their MARS station NNN0CVC off your lists.

o USNS Gordon named. The US Military Sealift Command officially named the lead ship of the USNS Gordon (T-AKR 296) Vehicle Cargo Ship 4 July at Newport News, Va. T-AKR 296, formerly the M/V Jutlandia and built in 1972 at Copenhagen as a containership she was lengthened in 1984 by Hyundai Heavy Industries at Ulsan Korea. In 1993 she and M/V Selandia were leased long-term Maersk Line/East Asia Co. The ship was then refitted by Newport News until January 1996. The work concluded installation of a centerline stern slewing

ramp, internal vehicle ramps, side-port vehicle ramps on each beam, electric cranes, two pedestal cranes, fin stabilizers, Sperry SRD 331 doppler log, SRD 421/S two-axis speed log, MR 37 Mod. E gyro, ADG 6000 steering control and GMDSS radio systems. There are six vehicle cargo decks.

SOUTH AFRICAN NAVY
o SAS Drakensberg docks in New York. South Africa's Navy Fleet Replenishment Ship SAS Drakensberg (A301) docked in Manhattan 30 July. She is the first South African Navy vessel to visit since 1976.

ROYAL NAVY
o U.K. orders two assault landing ships for the Royal Navy
UK has ordered two new assault landing ships for the Royal Navy. The ships will replace the Fearless-class HMS Fearless (L-10) and HMS Intrepid (L-11), the latter of which is in reserve. The ships, to be named HMS Albion and HMS Bulwark will displace 13,000 tons, have a speed of 18 knots and will each carry 325 crewmembers and 650 troops. They will be able to operate two Merlin HAS.1 or Sea King HC.4 helicopters and each have eight landing craft, four of which will be capable of landing main battle tanks. They will be based at Plymouth and are expected to enter service in the next decade.

Thanks to Day Watson for the last three articles....

U.S. AIR FORCE
o Recently, some photo's where published of the "Tacit-Blue", the father of the F-117, B-2 and the Joint-stars. Another secret, airborne since 1985 , possibly responsible for lots of UFO- sightings. Tacit-Blue was designed for spy-missions with the radar-signature of a bat and extensive electronic equipment on board it seems extremely equipped for this task. Because of the good daylight-visibility of the aircraft, the development stopped after 250 flight-hours. Technical info ; length: 16.7 meters, wingspan : 14.5 meters, operating-height : 25000 Ft flying at 250 Knots

o This came anonymously...
Here are the HF pre-set frequencies from a B-1B bomber based at Dyess AFB, Texas. Aircraft tail number 105.

Button	Freq	Use
1	-open-	
2	5000	WWV
3	10000	WWV
4	15000	WWV
5	6761	HF AR (air refueling)
6	4724	GHFS
7	6739	GHFS
8	8968	"
9	8992	"
10	11175	"
11	11244	"
12	13200	"
13	15016	"
14	17976	"
15	2182	emergency
16	8364	emergency
17	8965	Dyess CP day
18	4721	Dyess CP night
19	13291	ATC N. Atl.
20	5574	ATC N. Atl.
21	13354	ATC Pacific
22	6532	ATC Pacific

Re 17/18 as a note to this list, Dyess CP is RAYMOND 37.

o John Ward made a post reporting the move of the 43rd Aerial Refueling Group (ARG) from Malmstrom AFB in Montana to MacDill AFB in Tampa, Florida. The move is underway. Five of the group's KC-135/R tankers are now flying out of MacDill with a new aircraft scheduled to arrive each week through Oct. 1 when the transfer becomes official. When the move is complete, the 43rd ARG will become the 91st Aerial Refueling Squadron, Sixth Aerial Operations Group

under the Air Mobility Command. The host unit at MacDill will change from the Sixth Air Base Wing to the Sixth Aerial Refueling Wing.

The 43rdARG/6AOG consists of 12 aircraft and about 550 active duty Air Force pilots and support personnel. The aircraft currently use the callsign FALLS XX, but that may change after the move.

o U.S. Civil Air Patrol Wings change callsigns by R.D. Baker

As most of you are aware, the U.S. Civil Air Patrol (CAP) changed their static callsigns effective July 1, 1996. Thanks to Mr. Anonymous, we now have the answer why. It seems the CAP *HAD* to change them. All military static callsigns are supposed to be unique; i.e. no two units are to use the same. To ensure that this is so, prospective callsigns are cleared through the appropriate agency's or service branch's frequency management agency. For CAP, which is part of the USAF, that would be the AFFMA - Air Force Freq Management Agency.

When the CAP callsigns formerly in use (the ones ditched this year) were selected, the NHQ/DOKF (CAP National Headquarters Frequency Manager) neglected to do this, leading to conflicts. For example, Wright-Patterson AFB uses "Kitty Hawk," which was also the NC wing CAP call. The Wisconsin CAP callsign "Badger," was also assigned to the 128th Air Refueling Wing, headquartered at Mitchell Field in Milwaukee. To clear this up, the CAP Wings resubmitted new call choices, a total of four per wing. The AFFMA checked these choices and each wing got the first-listed choice that didn't conflict, except Missouri -all four of their choices were already in use, so they had to try again. It's too bad that these changes had to occur - many of the old calls sounded a lot better than the new ones. The only wing to actually get a better call was Maryland, which went from PLANT (how did they ever get that?) to FREE STATE. If you listen to CAP very much, you will probably note that many CAP radio operators accidentally use the old call from time to time.
So thanks to Mr.A, we now know why the change! Here is a list of the new callsigns:

NEW CAP GROUND CALLSIGNS

GROUND TACTICAL CALLSIGNS
CAPFlight is still required for Aircraft Use

National Headquarters	HEADCAP
National Headquarters Special Use	AVENGING SPIRIT
Northeast Region	CAP STONE
Connecticut	CHARTER OAK
Maine	DOWN EAST
Massachusetts	PATRIOT
New Hampshire	ABENAKI
New Jersey	RED DRAGON
New York	WHITE PEAK
Pennsylvania	PENN CAP
Rhode Island	NARRAGANSETT
Vermont	VERMONT CAP
Middle East Region	MIDDLE EAST
Delaware	DIAMOND FLIGHT
National Capital	NAT CAP
South Carolina	SAND LAPPER
Maryland	FREE STATE
North Carolina	CAP KITTY HAWK
Virginia	JEFFERSON
West Virginia	HILL CAP
Great Lakes Region	CAP GREAT LAKES
Illinois	RED FOX
Indiana	RED FIRE
Kentucky	JET PILOT
Michigan	RED ROBIN
Ohio	RED THUNDER
Wisconsin	BLUE MOUND
Southeast Region	SOUTHEAST CAP
Alabama	ALABAMA CAP
Florida	FLORIDA CAP
Georgia	GEORGIA CAP
Mississippi	MISSISSIPPI CAP
Puerto Rico	PUERTO RICO CAP

Tennessee	TENNESSEE CAP
North Central Region	NORTH CENTRAL
Kansas	YELLOW BRICK
Minnesota	STAR FISH
Missouri	(Delayed in Processing)
Nebraska	RED CLOUD
North Dakota	PEACE GARDEN
South Dakota	GRASSLANDS
Iowa	IOWA CAP
Southwest Region	CAP WEST
Arizona	RED ROCK
Arkansas	WILD WOOD
Louisiana	CAJUN CAP
New Mexico	SHIP ROCK
Oklahoma	OIL WELL
Texas	TEXAS CAP
Rocky Mountain Region	ASPEN GOLD
Colorado	BLUE MESA
Idaho	STAR GARNET
Montana	BLACK GRANITE
Utah	UNCLE MIKE
Wyoming	HIGH PLAINS
Pacific Region	WESTERN
Alaska	SOURDOUGH
California	YOSEMITE
Hawaii	FIREBRAND
Nevada	SILVER STATE
Oregon	BEAVER FOX
Washington	SPOTTED OWL

QSL editor Marty Barry passed on this information:
The Canadian Armed Forces operates, it seems, a MILITARY COMMUNICATIONS AND ELECTRONICS MUSEUM in Kingston, ON. I don't have any more information on it than that, but if anybody interested in the various gear used by Canadian military personnel over the decades would like to check it out, it's there. The museum is officially named after the recently deceased ARTHUR JAMES EDWARD CHILD, who was an Honorary Colonel of the COMMUNICATIONS AND ELECTRONICS BRANCH of the Canadian Forces and Honorary Colonel of 4 Fighter Wing of the Canadian Air Force, and who was the museum's major donor. When I get more information regarding the museum, I'll pass it on, and would also appreciate anyone knowing more about it to let us know.

Well that's about it for this month, my thanks go to Rick Baker, Ary Boender, JD Stephens, Day Watson, Marty Barry...and Mr. Anonymous! If you have news about your military that may relate to shortwave, drop me a line.

See you again next month, Bye for now.

Paul Jones

==========

```
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|_|\_|_| |_|\___/  |_| |___\___|_| |_|____| |_|\_|___| \_/\_/ |___/
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Utility Monitoring in the Maritime Bands

Editor: Day Watson (100712.3154@compuserve.com)
14, Gardens Road
CLEVEDON, North Somerset
US21 7QG United Kingdom

Hi maritime monitors. The column is written from the new radioroom; or comcen as I've called it. After many years, and now with the family grown and moving out, I've finally been able to move the kit from the bedroom to a customized den. Haven't had much time however for monitoring under new conditions - with week's holiday, moving the kit, putting the column together and of course the monitor's permanent enemy - going to work!. So to the column QTC list

Tug net in Vancouver, BC.
Portishead Radio
Maritime voice markers
Ship press
Musings by Ralf Kloth
OBS
Station overviews - Athens, and General Pacheco
Shipping news.

++++++ Vancouver, BC Tug Net on 4417 at 0400Z

Jim Gordon (jgordon@city.pg.bc.ca) passes on the following for maritime monitors....

" Seaspan International, a tug and barge company based in Vancouver, B.C., runs a check-in net for it's fleet twice daily. I have regularly monitored them at 2100 local (0400 UTC) on 4417 simplex. The other time is in the morning 0900 local [1600 UTC] on the same frequency although I would have to verify this (my log is at home). Try the evening net for a possible QSL. The net only lasts about five minutes but the signals are generally quite strong. I can provide the QSL address in Vancouver for those who snag this one."

Thanks Jim.

++++++ Portishead Radio
Portishead has indicated GKY1 is beamed north and that their customers should use GKE1 GKY1 where possible reporting any problems when working through these stations.

As a reminder
GKY1 3615.7 reassigned from GND1 but located at Stonehaven (S of Aberdeen).
GKE1 3542.7 reassigned from GNK2 but located in Shetland Islands.

++++++ Maritime voice markers
At the end of July Rick Baker advised that he was trying gather a list of maritime voice markers that can be heard. Voice markers, sometimes called voice mirrors, are broadcast to help ships tune to their channel and judge the signal. They also work great for us to ID SSB coastal stations!

He kindly posted the list of those he recalls with the request for you maritime buffs to add where you can.

Athens Radio, GRC: female voice with announcements of dial-up services Hellenic Telecommunications Organization (O.T.E.) offers, in Greek, each service is separated by a "door bell" like "ding-dong".

Marker #2: rebroadcast of Greek National Time Standards station in Greek, with female voice "Ston epo'meno to'no i o'ra tha i'neh...pause...(time)", meaning "On the next tone the time will be...(time)".

Cyprus Radio, CYP: "This is Cyprus Radio, Radiotelephone Maritime Service" spoken in English & Greek by a female voice.

Madrid Radio, E: air horn like noise that precedes H+00 traffic lists for like 5 minutes....what is that?! I noted tonight at 0600 on 8728 is wasn't there.

Monaco Radio, MCO: female in English "This is Monaco Radio maritime telephone service", and I think this repeated in 3 other languages and frequencies given, but it's been awhile....

Norddeich Radio, GER: .."Hier ist Norrdeich Radio." in German by a female voice, followed by sound of ticking clock. Note Norddeich sounds a lot like "Nordine" to English speakers.

St Lys Radio, F: A few notes of the melody "Haute Garonne" played by an accordion?, concertina? (squeeze box, correct name of the instrument?), male in FF "Ici Saint Lys Radio (sounds like Cy-lease Radio)....Service radio telephonique avec les navires en mer. Cette transmission est effectue au niveau normal de parole pour permettre le reglage des recepteurs de bord."

English translation: This is St. Lys Radio. Radiotelephone service for vessels at sea. This transmission is made at normal speech level to allow adjustment of ships' receivers.

What sounds like "this is" is the over-emphasized "Ici" with the stress on the second syllable.

(thanks to Martin Barry and Ralf R. Radermacher for the correction to St Lys)

It is irregularly broadcast ahead of the 0000, 0600, 1200 and 1800 UTC=20 traffic list.

These are all still active.

Ralf R. Radermacher wrote "a "close relative" of the Norddeich announcement used to be broadcast by the now defunct Kiel Radio. It was the very same recording with the voice part saying "Kiel Radio" and the clock noise played back at double speed.

Hugh Stegman recalled..."General Pacheco Radio in Buenos Aires has run something similar to Madrid's noise, without voice ID, for years. General Pacheco Radio used to broadcast a little, out-of-tune, 5-note electronic song, then "Desde Buenos Aires, esta Lima Papa Lima, transmite Argentina, servicios de General Pacheco Radio, radiotelefonico publico." (If memory serves). Haven't heard that one in a while. And if you really wanna get old, there used to be, "This is a test transmission for circuit adjustment purposes from the control center in Wellington." (New Zealand) That's from my childhood in front of the Hallicrafters. That loop has been gone for years.

Roger Caird came up with one not on the original list, Rome Radio..."my Italian spelling probably leaves a lot to be desired but..."

Rome Radio Qui Roma Radio, radio telefonico marisimo.....

Alex Wellner came up with an excellent list from the past and present. Maybe you remember some?

o NEPAL: "This is a test transmission for circuit adjustment purposes from the Radio phone terminal of Nepal Telecom Corporation. This station is located in the Central Telegraph office, Kathmandu." They never QSLd my numerous reports...

o HANOI: "This is a transmission,for circuit adjustment purposes from the Hanoi Radio Telephone Station" Ditto, no QSL.

o PORT MORESBY PNG: "This is the Post and Telegraph offices of Papua New Guinea, transmitting from Port Moresby. This is a test transmission for receiver tuning and adjustment" Heard some years ago.

o PEKING: Melody "East is red" then " This is Peking International Radio Communications centre in the Peoples Republic of China" by YL.

o NRV GUAM: This is November Romeo Victor NRV testing for receiver alignment and transmitter identification.Testing 1-2-3-4-5,5-4-3-2-1. Heard about 1980

o MOSCOW: " This is a transmission for circuit adjustment purposes,from the Moscow Radio Telephone station." This is still current.

o HONG KONG: This is a test transmission from the Radio phone terminal of the Cable and Wireless LTD in Hong Kong.This transmission is for terminal

alignment purposes for the transmitting adn receiving stations." Hong Kong is/was current about a year ago, but I haven't heard it lately.

o ORANGE JUICE GUAM: "This is Orange Juice testing for receiver alignment and transmitter identification. 1-2-3-4-5, 5-4-3-2-1. Heard cca 1979. ORANGE JUICE -Guam was a tactical callsign, long defunct. Probably similar purpose to the current early warning systems. I am sure one of the "oldtimers" will be able to shed more light on it. I consider it a "collectors item."

o HAMBURG: YL "You are listening to an independent telephone transmitter for point-to-point circuit,operated by the Radio Telephone Service of the Deutcshe Bundespost in Hamburg, Germany. " Heard befor 1989

o CLARK AFB Philippines: OM " This is Alpha India Charlie, radio station on the island of Luzon, broadcasting for receiver alignment only. 1-2-3-4-5,5-4-3-2-1

o SYDNEY: OM "This is Sydney, Australia, the eastern terminal of the Overseas Telecommunication Service, transmitting a test message for the purpose of circuit adjustment and identification, for overseas stations scheduled for communication with Sydney at this time." Was current till about a year ago.

o ZUD SOUTH AFRICA: YL "This is the International Radiotelephone Terminal of ZUD calling distant stations scheduled to operate a service with ZUD" Haven't heard this one for a long time.

o SINGAPORE: YL "This is the overseas radio Telephone terminal of the Telecommunications Authority of Singapore. This transmission is coming normal modulation level, for the purposes of circuit adjustment."

o ZLW WELLINGTON: OM "This is a transmission for circuit adjustment purposes from a station of the New Zealand Post office. The transmission is modulated from the Radio Telephone Terminal located in Wellington" This station is defunct now.

o PAPEETE: YL " Ici Papeete, Polynesie Francaise Centre du Reseau General Radioelectrique de l'Administration Francaise des Postes et Telecommunications. Ceci est une transmission d'essai pour le reglage de votre reception."

o KUMYONG Nth Korea: OM " This is the korean Central Wireless relay station in Kumyong the Democratic republic of Korea."

o GUANGZHOU, China: Voice Mirror in Chinese on 6510 KHZ. Time 0920 UTC last month.

Thanks to all. If you can add or correct to this list, drop Rick a line at utelistener@msn.com or his snail mail address listed in his columns. We'll list an update down the road.

++++++ Ship press
I've discovered Tallinn/ESA has a broadcast in fec/third shift Cyrillic at 1115z to about 1150z on both 12593 and 16826. At the moment I suspect the start time is 1100z. Unknown is whether this is a Saturday (weekly) only broadcast, or if it is a daily occurrence (possibly barring Sunday).

Given in ALRS as an information broadcast (see Athens station overview down the column) Athens preceded the broadcast with the marker "de SVA press as". Again from ALRS the source is given as the Greek Ministry of Merchant Marine (YEN). The broadcast is in CW/Greek at around 22wpm.

++++++ Musings by Ralf Kloth
At the end of July Ralf posted his thoughts (worth repeating) firstly on - Ships registries

"I always wondered about the continuous appearance of new ships carrying the Liberian flag and Liberian callsigns, while the state of Liberia with all it's authorities has been ruined in a civil war for several years now.

Some weeks ago I found in the German newspaper FAZ an article about open ships registries :

The Liberians had out-sourced their ship registry business to the International Registries Inc (IRI) in Reston, USA, for about 20 Million U.S. Dollars per year.

The Liberian ships registry is the 2nd largest in the world (after Panama). Due to the ongoing civil war, the image of the Liberian flag is decreasing. Since 1988, the IRI also offer certificates and registries of the Marshall Islands"

and secondly on - Iranian shipping:
He indicates that "although this happened some months ago, it might be interesting :
The ship IRAN Esteghlal (EQHY, selcall 59226) has been heard on 12504.5 kHz sending a DIRTLX msg to SHIPPINGCO Tehran about leaving Bushehr port with destination Bandar Abbas. While this fact itself is not very spectacular, it is notable, that this message has been sent via Portishead Radio.
This leads to the conclusion, that the Iranians don't have a local telecommunications infrastructure to handle traffic for their own ships travelling from one Iranian port to another one.

Thanks Ralf.

++++++ Maritime websites
The following websites have come to light during the past month.
Our friend from the RTTY ranch Bob Margolis has been productive in his recent probing's of the web and has come up with the following of maritime interest.
Global Maritime Distress and Safety System at:
http://www.navcen.uscg.mil/marcomms/gmdss/gmdssreg.txt

Maritime transport in Vietnam at:
http://www.serve.net/vietnam/pages/INDEX.HTM
Pickup the link to Transportation Sector in the contents.

Maritime Mobile nets at:
http://www.reach.net/netsites/personal/perchome/percmm/html

From the home page of Prince Edward Radio Club (radio amateur) can be obtained a list of HF radio amateur frequencies of maritime mobile service nets and their times of operations.

Maritime Mobile Service Network at:
http://206.202.0.2/~mmsn/index.html

This site has links to Merchant Marine, military and MARS web sites. The net is held daily from 1200 to 2200 EST on 14300 khz although Bob indicates it was still going at 2345 EDT on 14/July.

WUNderfull Bob. Many thanks

From Ken Olsen via the SHIPs list
The US Coast Guard's Office of Investigation and Analysis has gone online at:
http://www.dot.gov/dotinfo/uscg/hq/g-m/moa/mao1a.html
Contains reports, statistical information, safety alerts, points of contact and routine investigational reports.

But almost immediately Greg Hayden asked on the SHIPs list if the USCG had taken one giant step backwards ? On 15 Aug he pondered
Tell me it isn't so ..... this nifty well organized site is going away?
http://www.dot.gov/dotinfo/uscg/hq/g-m/moa/mao1a.html
In favor of these poorly presented sites:
http://www.dot.gov/dotinfo/uscg/hq/nmc/nmc/Alert/index.htm
http://www.dot.gov/dotinfo/uscg/hq/nmc/nmc/Alert/index1.htm
http://www.dot.gov/dotinfo/uscg/hq/nmc/nmc/invest/index.htm
Yech!!! Check it out for yourself he suggests.

On the up side he advises another Merchant Marine page at:
http://www.geocities.com/TheTropics/1965/
which takes you to dozens of maritime links try for example:
http://rampages.onramp.net//~rangerj/
for "ol Sparkies" input.

Finally Thomas Chapman of Diamond Light is excited to announce that OCEAN NEWS is up and running on the web and is fully functional at:
http://www.oceannews.com

This gives access over 20 topic pages of global trade and transport news from the world's wire services and newspapers.....ocean shipping, shipbuilding, ports, logistics, trade, communication technologies, and a special page focusing on trade in China.
However being a commercial enterprise one must subscribe with the appropriate amount of greenbacks, yen or bawbees depending on where one lives!

++++++ OBS
This is the message designator for weather observations sent by ships at sea. Ships are recruited by national weather administrations. As far as the ship is concerned it is on a purely voluntary basis -usually the "Old Man" (Captain) agrees and the rest are "volunteered". As an ex-Sparks I was also happy to work on a "reporting" ship - often single-handed (radio-wise) ships have little traffic and OBS form a daily break from the boredom. At the same time I was always a believer that the quality of shipping forecasts we were sent was dependant on the input we provided. A variant on the old adage of "rubbish in rubbish out".

The observations are made at sea by the Deck Officer on watch and passed to the Radio Officer for transmission to one of a number of designated coast stations within the zone in which the ship is currently sailing. From there it is passed by landline to the appropriate met authority. There are no ship station charges. Any coast station/landline charges if any are the subject of negotiation between the met authority and the coast station.

The times (UTC) at which observations are taken are 0000, 0600, 1200 and 1800. On a single-handed ship one of these observations is during the night when the RO is off-watch. The OBS is sent first watch thereafter. Even although it might not reflect in the input for a particular synoptic situation the data is used for subsequent statistics. However should the ship be on the edge of, or even in, major disturbances I made it a practice to be called from my bunk as soon as the OBS was ready. On occasion supplementary obs would be made at the intermediate 3-hourly points (ie 0300 0900 etc).

The format is the World Meteorological Organization (WMO) FM13-x otherwise known as SHIP. In met broadcasts it will be found under the heading of BBXX. For those who wish to go a little further the format consists of six possible sections. Not all sections are used. Coding is sectioned by three figure symbolic groups and single figure symbolic indicators within each group; all figures ascending order.

	Symb.grp	Symb.ind used
Section 0	-	
Section 1	-	0 - 9
Section 2	Starts 222	0 - 9
Section 3	Starts 333	0 - 9
Section 4	Starts 444	
Section 5	Starts 555	

A large number of the possible groups are optional. It is not within the scope of this article to give complete details. These can be found in
WMO Publication WMO 306 MANUAL ON CODES
ALRS (NP283) VOL3 RADIO WEATHER SERVICES AND NAVIGATIONAL WARNINGS
Klingenfuss AIR AND METEO CODE MANUAL
Anyone with alternate documents giving this information please email me at the address at the column head.

A typical ship's OBS message will consist of sections 0, 1 and 2 but will vary depending on whether the ship is graded Selected, Supplementary or Auxiliary. When an observation or an element in a group is not available this is indicated by the forward slash or solidus "/" character.

Now as working examples the following OBS are decoded.

==========

```
 gyxw  11133 99611 10017 41/98 81420 10158 20124 40133 57010 70222
          8//// 22200 02136 315// 40705 80138=

 Section 0

 BBXX     SHIP synoptic report from sea station

 gyzw     Ship's callsign - unable to identify via ITU MARS facility.

 11133    11 Date
                13 Obs time(1300UTC)
                 3 Wind indicator (Note.1) Estimated, spd in kts

 99611    99 Symbolic group - position follows
            611 61.1 Lat (N)

 10017     1 Quadrant of globe Latitude N Longitude E (Note.2)
           0017 001.7 Long (E)

 Section 1

 41/98     4 Precipitation data not available
                 1 Manned station.  Pres/past wx inc (see 70222 below)
                 / Height of base of cloud not known
                98 Horizontal vis 20 km

 81420     8 Cloud cover 8 oktas
                14 True wind direction in tens of degrees (140 degrees)
                20 Winds speed in units indicated above (kts)

 10158     1 Symbolic indicator - air temp follows
                 0 Sign + or zero temp.
            158 Air temp to tenth degree Celsius (15.8C)

 20124     2 Symbolic indicator - dew point temp follows
                 0 Sign + or zero temp.
            124 Dew point temp to tenth degree Celsius (12.4C)

 40133     4 Symbolic indicator - pressure follows
           0133 Pressure at mean sea level in tenths of hectopascal but
                   thousands digit is dropped   (1)013.3 hP

 57010     5 Symbolic indicator - pressure tendency over last 3 hrs
                 7 Pressure tendency - decreasing steadily/unsteadily
            010 Amount in tenths of hectopascals (1.0 hP).

 70222     7 Symbolic indicator - weather pres/past follows
                02 Present weather - state of sky on whole unchanged
                 2 Past weather - Cloud covering more half sky during period
                 2 Past weather -   "     "       "    "    "    "      "

 8////     8 Symbolic indicator - cloud observations follow
           //// No information reported

 Section 2

 22200   222 Symbolic group - section 2
                 0 True direction of ship during last 3 hrs (0=stationary)
                 0 Ship's average speed during last 3 hrs (0=stopped)
```

(Notes 3 and 4)

```
 02136     0 Symbolic indicator - sea surface temp follows
                2 Sign of temp and method of measurement (2 = + and bucket)
            136 Sea surface temp in tenth degrees Celsius (13.6C)
                        (Note.5)

 315//     3 Symbolic indicator - swell direction follows
               15 True direction from whence swell is coming in tens of
                  degrees (150)
               //  "     "        "     "      "   (no info)

 40705     4 Symbolic indicator - swell information follows
               07 Period of swell waves in seconds (7sec)
               05 Height of swell waves in 0.5 metre units (2.5 metres)

 80138     8 Symbolic indicator - wet bulb temp follows
                0 Sign and type of wetbulb temp (0 = + or 0 measured
wetbulb)
            138 Wet bulb temp in tenth degrees Celsius (13.8C)
```

==========

Comments: Given I don't have an identity for the above, that the ship is reporting at "non-standard" time and is stationary but has a fairly comprehensive report suggests possibly an oil rig (sea station) or a large warship with met staff providing hourly reports (standard for land stations but not for the majority of ships.

```
 Note.1    Wind speed
               0    Estimated metres/sec
               1    Anemometer metres/sec
               3    Estimated knots
               4    Anemometer knots
 Note.2    Quadrant of globe
               1    Lat N  Long E
               3    Lat S  Long E
               5    Lat S  Long W
               7    Lat N  Long W
 Note.3    Ship's direction
               0    Stationary
               1    NE
               2    E
               3    SE
               4    S
               5    SW
               6    W
               7    NW
               8    N
               9    Unknown
 Note.4    Ship's average speed
               0    0 Knot
               1    1 - 5 kts
               2    6 -10 kts
               3    11-15 kts
               4    16-20 kts
               5    21-25 kts
               6    20-30 kts
               7    31-35 kts
 Note.5    Sea surface temp may be taken by measuring seawater collected
               in a bucket, at the seawater intakes (to the engine room), by
               a hull contact sensor, or by some other means.
```

==========

```
 ldwr 11134 99661 10020 41698 61310 10134 20108 40157 58001 70222
         84570 22200 04120 10802 318// 40802=

 Section 0
```

```
 ldwr     POLARFRONT (this is a Norwegian specialist weather ship -
                Note.6
 11134    11th   1300UTC   Anemometer in kts
 99661    Latitude 66.1N
 10020    Quadrant Lat N/Long E.     Longitude 002.0E
 Section 1
 41698    Manned station. Cloud base 1000-1500metres. Vis 20 km
 61310    Cloud cover 6 oktas. Wind 130 degrees.  10 kts
 10134    Air temp +13.4C
 20108    Dew point temp  +10.8C
 40157    Sealevel pressure (1)015.7 hP.
 58001    Pressure tendency - steady or decreasing-  0.1hP
 70222    Weather states - as previous example
 84570    Cloud observation (not decoded)
 Section 2
 22200    Ship stationary
 04120    Sea surface temp +12.0C (by hull contact sensor)
 10802  1 Symbolic figure - wave info follows
          08 Wave period (instrumental method) in seconds (8 secs)
          02 Wave height (instrumental method) in 0.5metre units (1metre)
 318//    Swell direction from 180 degrees.
 40802  4 Symbolic figure - Swell wave info follows
          08 Period of swell waves in seconds (8secs)
          02 Height of swell waves in 0.5metre units (1metre)
```

Note.6 The N Atlantic at one time saw a number of Ocean Stations manned permanently a) on the western side by USCG cutters and b) on the eastern side by 4 British (ex "Castle" class frigates), 2 French (custom built) and 2 Dutch (custom built) weather ships and c) on a single station between Iceland and Norway by the Norwegians.
The Ocean Station callsign was 4Y_ where _ was the station designation letter. 4Y is the ITU series for ICAO. These ocean stations were provided as radio/ navigational "staging" posts for transatlantic aircraft under the ICAO umbrella, hourly met observations, six hourly balloon ascents, daily bathy-thermograph dips, plankton recording on certain passages to/from station, and aurora reporting as the occasion arose. Provision and regular drills for air-sea rescue contingencies were also covered.
a. (to the best of my understanding) and b. have now ceased to exist. c. is still maintained by the Norwegians currently in the form of POLARFRONT/LDWR. Note that she will have met staff reporting on an hourly basis and providing the weather is clement will be lying stationary as can be seen from her OBS. If the weather deteriorates she will cruise slowly back and forth across her assigned position at a speed and direction more conducive to comfort. But we digress.

==========

```
 dbfr 11134 99531 10044 46/9/ /3303 10167 20134 40059 50001 22253
         00175=

 Section 0
 dbfr     German vessel WALTHER HERWIG III
 11134    11th  1300UTC  Anemometer in knots
 99531    Lat 53.1 N
 10044    Quadrant Lat N Long E.  Long 04.4E
 Section 1
 46/9/    Automatic stn operation. No info cloud base. 9/ vis not
                understood
 /3303    Cloud cover no info.  Wind 330 degrees at 3 knots
 10167    Airtemp +16.7C
 20134    Dewpoint temp +13.4
 40059    Mean sea level pressure (1)005.9 hP
 50001    Pressure tendency - increasing then decreasing - +0.1 hP
 Section 2
 22253    Ship proceeding SW at 11-15 kts
 00175    Sea surface temp +17.5C (intake method)
```

==========

Now you have the were-with-all to determine a ship's position, direction and speed, and some basic met parameters from her OBS. For detailed decode you'll have to obtain one of the above or kindred documents. Makes a nice change doing it longhand rather than electronically with fancy computer programs. There again longhand may be the only way you have.

++++++ Athens Radio overview
 Location: Greece at 38.00N 23.53E
 WT service
Watchkeeping - Note in particular marker on SVB series frequencies in use. Basically 4 6 Mhz HN (nights), 8 12 Mhz H24, 16 22 25 Mhz HJ (days).
Traffic list is sent at
0000 0200 0400 2200 on 4343 6478.7
0845 0945 on 8350
0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 on 22589.5
0800 1000 1200 1400 1600 on 25401
On 8687 13047 17094.8 every EH+00
Wx forecast is sent at 0348 0618 0948 1518 2118 on 4343 and 8687.
Information broadcast in Greek CW from the Greek Ministry of Merchant Marine is sent Mon-Sat 0048 1248 1848 on 4343 6478.7 8687 12833 17094.8 22589.5

SVD2	4223
SVB2	4239.4
SVA2	4343
SVB3	6344
SVF3	6411
SVD3	6444.5
SVA3	6478.7
SVG4	8454.5
SVJ4	8530
SVF4	8536.5
SVI4	8681
SVA4	8687
SVD4	8692.5
SVB4	8704
SVI5	12720
SVF5	12833
SVD5	12859
SVG5	12942
SVB5	13029
SVA5	13047
SVB6orSVI6	16966
SVG6	16981.5
SVF6	16995
SVA6	17094.8
SVJ6	17147.2
SVD6	17188
SVD7	22471.5
SVF7	22500
SVA7	22589.5
SVB7	22595.7
SVI7	22660
SVG7	22679
SVA8	25401
SVF8	25431.5
SVG8	25486
SVD8	25535

Telex service
Stn nr 1780 ---> Selcal XYFV
Marker "de SV." and long tuning mark.
Traffic list is sent (fec) on 4213 6321.5 8424 12603.5 16830.5 22387.5 every EH+20.
Ship press in Greek is sent (fec) - details not fully confirmed currently but try

0300 on 8424 0600 on 8424 12603.5 16818
1300 on 12603.5 16818 2100 on 8424 12603.5 16818

			Ship
SVS2	4213	4175	[Ch 406]
SVU2	4216	4178.5	[Ch 413]
SVU3	6321.5	6270.5	[Ch 616]
SVS3	6325.5	6274.5	[Ch 624]
SVS4	8421.5	8381.5	[Ch 811]
SVT4	8423	8383	[Ch 814]
SVU4	8424	8384	[Ch 816]
SVS5	12587.5	12485	[Ch1217]
SVT5	12590.5	12488	[Ch1223]
SVS/SVU5	12603.5	12501	[Ch1249]
SVT6	16818	16694.5	[Ch1623]
SVU6	16830.5	16707.5	[Ch1649]
SVT7	22387.5	22295.5	[Ch2223]
SVU7	22400.5	22308.5	[Ch2249]

RT service
Traffic list is sent on 4426 8734 8761 13170 17359 22744 every EH+05
Weather forecast in Greek 1215 2015 on 8734

			Ship
SVN21	4393	4101	[Ch 413]
SVN22	4399	4107	[Ch 415]
	4420	4128	[Ch 422]
SVN24	4426	4134	[Ch 424]
SVN25	4429	4137	[Ch 425]
SVN31	6501	6200	[Ch 601]
SVN32	6507	6206	[Ch 603]
SVN41	8722	8198	[Ch 802]
SVN42	8734	8210	[Ch 806]
SVN43	8740	8216	[Ch 808]
SVN44	8743	8219	[Ch 809]
SVN46	8761	8237	[Ch 815]
SVN47	8773	8249	[Ch 819]
SVN48	8776	8252	[Ch 820]
SVN49	8785	8261	[Ch 823]
SVN51	13080	12233	[Ch1202]
SVN52	13086	12239	[Ch1204]
SVN53	13095	12248	[Ch1207]
SVN54	13098	12251	[Ch1208]
SVN55	13110	12263	[Ch1212]
SVN56	13116	12269	[Ch1214]
SVN57	13119	12272	[Ch1215]
SVN58	13134	12287	[Ch1220]
SVN59	13170	12323	[Ch1232]
SVN61	17260	16378	[Ch1607]
SVN62	17266	16384	[Ch1609]
SVO63	17296	16414	[Ch1619]
	17305	16423	[Ch1622]
SVN63	17314	16432	[Ch1625]
SVN64	17317	16435	[Ch1626]
SVN65	17320	16438	[Ch1627]
SVN66	17326	16444	[Ch1629]
SVO67	17338	16456	[Ch1633]
SVN67	17341	16459	[Ch1634]
SVN68	17359	16477	[Ch1640]
	17404	16522	[Ch1655]
	19779	18804	[Ch1809]
SVN71	22720	22024	[Ch2209]
SVN72	22723	22027	[Ch2210]
	22738	22042	[Ch2215]
SVN73	22744	22048	[Ch2217]
SVN74	22750	22054	[Ch2219]
SVN75	22765	22069	[Ch2224]
SVN76	22786	22090	[Ch2231]
	22792	22096	[Ch2233]

SVN77	22798	22102	[Ch2235]
	22807	22111	[Ch2238]

Athens also sends a series of six FAX charts on 8530 commencing 0845. Currently (and reportedly until end of August) is a parallel frequency of 8105 under test at this time.

Research/acknowledgements:

ALRS Vols 1 (95/96) and 3 (95/96)
CFL Ed.9
Klingenfuss Utility Guide 1996

++++++ General Pacheco Radio overview
Location: Argentina at 34.27S 58.37W
WT service
Traffic list is sent
0000 0900 2100 on 4268
0000 0900 1100 13000 1500 1800 2100 on 8646 and 12988.5
1100 1300 1500 1800 2100 on 22587.5

LPD62	4262
LPD48	4268
LPD44	6404
LPD85	8514
LPD86	8646
LPD76	12763.5
LPD88	12988.5
LPD46	17045.6
LPD25	17195.5
LPD91or28	22513.5
LPD28or71	22587.5

Telex service
Station number 0101 ---> Selcal VXVX
Marker "LPD" and tuning burst.
Traffic list is sent (fec)
on 4218 8434.5 12647 every OH+05
on 16824.4 at 2105 2305 0105 0305 0505
on 22394.5 at 0905 1105 1305 1505 1705 1905

			Ship
LPD	4218	4180.5	[Ch 417]
LPD	4219	4181.5	[Ch 419]
LPD	6327	6281	[Ch 627]
LPD	6328	6282	[Ch 629]
LPD	8434.5	8394.5	[Ch 837]
LPD	8435.5	8395.5	[Ch 839]
LPD	12647	12545	[Ch12137]
LPD	12648	12546	[Ch12139]
LPD	16824.5	16701.5	[Ch1637]
LPD	16825.5	16702.5	[Ch1639]
LPD	19699	18888.5	[Ch1837]
LPD	19700	18889.5	[Ch1839]
LPD	22394.5	22302.5	[Ch2237]
LPD	22395.5	22303.5	[Ch2239]
LPD	26119	25191	[Ch2637]
LPD	26120	25192	[Ch2639]

RT service
Traffic list is sent on 4387 4393 6507 8734 8749 13089 17242 19782 19782 22705 26160 every OH+05 during hrs of service.

LPL	4387	4095	[Ch 411]
LPL	4393	4101	[Ch 413]
LPL	4432	4140	[Ch 426]
LPL	6507	6206	[Ch 603]
LPL	8734	8210	[Ch 806]
LPL	8749	8225	[Ch 811]
LPL	8797	8273	[Ch 827]

LPL	13089	12242	[Ch1205]
LPL	13161	12314	[Ch1229]
LPL	17242	16360	[Ch1601]
LPL	17248	16361	[Ch1603]
LPL	19782	18807	[Ch1801]
LPL	19788	18813	[Ch1812]
LPL	22705	22009	[Ch2204]
LPL	22795	22099	[Ch2234]
LPL	26160	25085	[Ch2606]
LPL	26169	25094	[Ch2609]

Research/acknowledgements:
ALRS Vols 1 (95/96) and 3 (95/96)
CFL Ed.9
Klingenfuss Utility Guide 1996

++++++ Shipping news (with thanks to Steve Schultz and SHIPs list).

Name change for Madras
The port and city of Madras, India, have been renamed Chennai. The name is short for Chenna Datnam, or Chennappa Naick, the feudal chieftain who sold the area to the English East India Co. for use as a port.

Last six ships of ELMA to be sold
The Argentine Government will sell the last six ships of ELMA. They include four containerships:
M/V Presidente Sarmiento (20,221-dwt,1,095 teu capacity),
M/V Dr. Juan B. Alberdi (20,169-dwt, 1,095 teu capacity),
M/V Isla Gran Malvina (24,427-dwt, 1,226 teu capacity,
M/V Isla Soledad (24,427-dwt, 1,226 teu capacity ship).
The two others are refrigerated ships chartered out to carry kosher meat to Israel. They are the
M/V Glaciar Perito Moreno and the M/V Glaciar Ameghino, (10,452-dwt).

Royal Nedlloyd sells five containerships
Royal Nedlloyd N.V. has sold five containerships to undisclosed Far East interests. They are the
M/V Armada Sprinter (14,101-dwt),
M/V Nedlloyd Main (14,245-dwt),
M/V Nedlloyd Musi (14,101-dwt),
M/V Nedlloyd Maas (13,800-dwt),
M/V Nedlloyd Merwe (14,101-dwt),

Maersk sells three containerships
Maersk Line has sold three former Ben Line containerships;
M/V Edinburgh Maersk (48,670-dwt),
M/V London Maersk (49,590-dwt),
M/V Paris Maersk (48,670-dwt).
They will be chartered back and will still be used from Europe to India and the Persian Gulf. The ships will return to British registry, as they were from their building until 1993.

M/V OOCL Canada christened
Orient Overseas Container Line has christened the M/V OOCL Canada at the Racine Terminal in Montreal. The 33,602-dwt, 2,300 teu containership was built by Samsung with an ice-strengthened hull. She will be the largest containership on the St. Lawrence, on a 21-day schedule to Europe. The ship has a one person bridge system.

Nordana adds fifth ship to service
Nordana Line has added the ro/ro M/V Silkeborg to its United States/Mediterranean/Caribbean/Latin America/United States service. The fifth ship will increase the frequency from 17 to 18 days to 14 days.

Bergesen sells two bulk carriers
Bergesen A/S said 26 July it has sold two bulk carriers. They are
M/V Probo Hawk (48,015-dwt) and

M/V Probo Gull (47,979-dwt).

M/T Sea Star delivered

M/T Sea Star has been delivered to Rodon Investments, Panama. Operated by Nereus Shipping, the 148,435-dwt double-hull tanker was built by Mitsui Engineering at Chiba, Japan, and is classed by A.B.S. She has a crew of 37 and is capable of 15.11 knots.

++++++ QRU guys/gals, QRX agn nxt mnth, 73s - Day

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New Products, Books, News and Reviews

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|Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column (not via the clubs D.C. address to save mail costs)|

Howdy folks. I had hoped to have the review of ScanCat done this month, but it's rather extensive and I had a parade of double-shift work days this month at the job that pays my bills! The short version is it didn't get done. I will try and have it ready for next month. Now if "work" won't keep getting in the way of my hobby -hi! Next month I have three new books as well.

RD REVIEWS

o 1996 Super Frequency List CD-ROM from Klingenfuss Publications (Part 2)

Last month in my review of this CD I bemoaned the generic "RTTY" column being used as the mode and under 'details' the types of RTTY being listed such as FEC-A, Sitor-A, ARQ-E, ARQ-M2, etc without a search feature.

Well, I should have played with the CD's features one more day! One of the search button's is for a key word search. With this combined search feature (function key F9) you can look for any imaginable combination of words: entering FEC, then A, then 192, will lead you to all RTTY stations using the FEC-A 192 Baud system. It's pretty easy and works very well. Solves that problem completely.

Joerg Klingenfuss reported that they will add all clandestine and domestic transmissions plus language and target area abbreviations as well in BC97 so you can even search for e.g. Pashto broadcasts to America at 01:23 UTC. That will be a bonus to you closet broadcast folks! Joerg further mentioned that they had already deleted all Loring entries in their files, which was a minor point on my 'nit' side. So, two minor nit's went to the plus side!

For those of you who own computers and do not have a CD-ROM drive, this is a good reason to get one!

o Radio Data Code Manual (15th Edition) by Joerg Klingenfuss

Hard to imagine that this is the 15th edition already. Newly released, this healthy sized book comes in at a hefty 604 pages. Radio Data Code Manual combines the former Air and Meteo Code Manual and the Radioteletype Code Manual formerly published by Klingenfuss Publications. What comes from this is one of the most comprehensive books of it's kind.

All of the latest codes and message formats for aviation and meteorology are included, as is just about anything else you need to understand and use these formats.

One of the first chapters includes a thorough discussion of the World Meteorological Organization (WMO), World Weather Watch (WWW) and their Global Telecommunication System (GTS) with complete message formats given. Chapters provide meteorological code formats including 'Aireps', 'Amdar', 'Arfoe' right up to 'Wintem'!; Symbolic Letters and Groups; Station Index Numbers; Solar and Geophysical Data; Aeronautical Abbreviations; The International Civil Aviation Organization Aeronautical Fixed Telecommunication Network (includes AFTN message formats); Air Traffic Services Messages (includes ATS message formats); Location Indicators (four-letter indicators used by WMO GTS, not IACO); Addressee Designators (three-letter used in AFTN messages); Aircraft Type Designators; The NOTAM Code (Notice to Airmen messages); SNOWTAM (special hazardous conditions); Data Transmissions (A thru Z discus-

sion of systems); Modulation Types; Standard Teleprinter Systems; Non-Standard Teleprinter Systems (includes vocabulary of Arabic words as they appear on a Latin alphabet teleprinter, ATU-80 same, and Chinese, Cyrillic, Hebrew, Amharic, Greek, Korean, Thai, Japanese, and others); Radiotelegraphy Terms and Definitions; Standard Morse Alphabet (in various languages); and Cryptolgy. A really nice feature is the listing of recordings of the modes on Klingenfuss's CD-ROM/cassette Recording of Modulation Types "for those who mislay the list" that was provided. That's me!

What changed in the 15th Edition? In looking them both over, the 15th edition has the new code Synop Mobil and lots of amendments to the other codes; changes to the WMO GTS message format; new index numbers of meteo observation stations; and new ICAO location indicators.

This book is for the 'serious' listener, as well as those who have a deep need to understand 'what' is being received, not just what station sent it. If you can't find it here, I doubt it will be found.

Radio Data Code Manual (15th Edition) by Joerg Klingenfuss is available through most sellers of hobby books and shortwave radio products or direct from Klingenfuss Publications, Hangenloher Str.14, D-72070 Tuebingen, Germany For more information: (phone 49 7071 62830) or by e-mail 101550.514@compuserve.com http://ourworld.compuserve.com/homepages/Klingenfuss

NEW PRODUCTS

o Frequency Manager 2.0 for Windows

Ingenieurb Satellitentechnik has released their new software for Windows. Since Frequency Manger 1.3 the software has grown a lot. The main features as listed in their ad's are:

- more than 26000 up-to-date utility stations, 14000 broadcast and now also more than 300 number stations
- frequency and background information of several systems you will not find in any other publication (CROWD 36, RS-ARQ, PSK, TT2300-ARQ)
- CAT interface to control several radios (ICOM, Kenwood, YAESU, NRD 535, AR3000, EKD500, (several RACAL,Love 150 in preparation, others on request))
- nearly every possibility to sort the tables by every kriterion
- table scan, dataset scan with free delay time and number of scans
- doubleclick a dataset and your receiver is set to the correct mode and frequency
- adding, deleting and updating all frequency datasets
- updating frequency table without loosing your own logs
- play back of audio files in WAVE-format
- optional around 50 wave files for the most modes on shortwave
- extensive Technical Handbook for all shortwave related themes
- system description including CROWD36, RS-ARQ and most systems on shortwave with pictures for spectrum and oscilloscope
- fast find in millieseconds
- extensive search combination
- possibility for calling 3 external programms
- all data for one frequency with one click
- available in Englisch and German

More descriptions and sample pictures will be soon available on their homepage. CD-ROM is in preparation and will be available around end of August.

All for now, have a good one (month that is!) -RD

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STATION/VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

FIXED STATIONS

Melbourne Meteo/VIC	13920.0	FAX	CRD	23 ds letter	(BVR)
USAF Lajes/CUW	8968.0	USB	LTR	40 ds letter, folder	(BVR)

Offenbach Meteo/DCF	134.2	FAX	LTR	12 ds		(BVR)
Kyodo News/9VF	16035.0	FAX	LTR	12 ds	no veri	(BVR)
Madrid Meteo/ECA	10250.0	FAX	LTR	20 ds		(BVR)
USAF Incirlik/AJG	11175.0	USB	LTR	190 ds		(BVR)
USAF Croughton/AJE	11175.0	USB	LTR	18 ds		(BVR)
USAF MacDill/AFE	11175.0	USB	LTR	30 ds		(BVR)
MARS Shore Sta/NNN0NUW	14467.0	USB	PFC	9 ds	decal, folder, QSL	(MR)
MARS Shore Sta/NNN0MCL	14441.5	USB	PFC	6 ds	Camp Lejeune, NC	(MR)
MARS Shore Sta/NNN0NWV	14441.5	USB	PFC	13 ds	Nvl Sec Grp Actvty	(MR)
MARS Shore Sta/NNN0UMS	14441.5	USB	PFC	19 ds	Evansville, IN	(MR)
MILITARY/COAST GUARD SHIPS						
Warship Sheffield	8240.0	USB	LTR	36 ds	letter, folder	(BVR)
Warship Invincible	8240.0	USB	LTR	17 ds	folder	(BVR)
HRMS V Speyk	2204.0	USB	LTR	30 ds		(BVR)
HRMS Sittard	2204.0	USB	LTR	21 ds		(BVR)
CIVIL SHIPS						
MV Iolar	2182.0	USB	LTR	30 ds	folder	(BVR)
MV Cicilie Viking	2182.0	USB	LTR	33 ds		(BVR)
MV Shetland Service	2182.0	USB	LTR	37 ds		(BVR)
MV Howel Lykes	12489.0	ARQ	LTR	34 ds		(BVR)
MV Pluto	2420.0	USB	LTR	14 ds	picture	(BVR)
MV Koningin Beatrix	2520.0	USB	LTR	12 ds	info	(BVR)
MV Sturgeon	2520.0	USB	LTR	25 ds		(BVR)
Kriegship Emden	6779.0	USB	LTR	24 ds		(BVR)
Kriegship U 24	6779.0	USB	LTR	43 ds		(BVR)
KR Rheinland Pfalz	6779.0	USB	LTR	46 ds	folder	(BVR)
MILITARY/GOVERNMENT AIRCRAFT						
USCG Rescue 1503	5696.0	USB	LTR	90 ds	no veri	(BVR)
MARITIME/NAVAL/COAST GUARD STATIONS						
Tors Cove R./VCT	6329.5	FEC	CRD	11 ds		(BVR)
Mar College Aaland	12487.5	ARQ	LTR	37 ds		(BVR)
Brixham CG	2182.0	USB	LTR	18 ds	folder	(BVR)
USN Norfolk/NAM	10865.0	FAX	LTR	32 ds	sked, no veri	(BVR)
Halifax Naval/CFH	13510.0	FAX	PFC	27 ds	partial data	(MR)

# # #

*** THE LITTLE BLACK BOOK ***

The following addresses correspond to some of the above QSL's (others may be obtained by e-mailing or otherwise contacting their recipients):

Halifax Naval Radio CFH
Canadian Forces Meteorology and Oceanographic Centre
FMO Halifax
Halifax, NS
B3K 2X0

Melbourne Meteo
Bureau of Meteorology
P.O. Box 1289K
Melbourne 3001

USAF Communications Station CUW
OIC/NCOIC Communications
1936 Communications Squadron
APO AE 09406

Offenbach Meteo DCF
Frankfurter Strasse 135
Postfach 10 04 65
D-63004 Offenbach
Germany

Kyodo News Service
Radio Transmission Division
2-2-5 Toranomon
Minato-ku
Tokyo 105
Japan

Madrid Meteo ECA
Ministerio de Transportes, Turismo y Communicaciones

Instituto Nacional de Meteorologia
Seccion de Communicaciones
E-28070 Madrid
Espana

# # #

WUN regular JOACHIM STILLER of Germany reports monitoring northern-Canadian utility RADIO ALMA quite often. The following updated mailing address was recently furnished to him:

Radio Alma CGD206
Bell Canada
700 Lagauchetiere O.
c/o Anne Louise Poulin
21 N. 1
Montreal, Quebec
Canada
H3B 4L1

Fax: (514) 870-7157

Alma can be heard on primary channels 5390 and 5430 kHz, and also on secondaries 3166 and 7465 kHz, but has been logged on other frequencies as well. The station is especially active during the summer months, when sportsmen head into the Canadian wilderness to hunting and fishing lodges there. Despite the recent launching of mobile satellite phone service in the area covered by Alma as an alternative to HF, the station's popularity doesn't seem so far to have declined very much.

# # #

VERIFYING SIGNATURES: Last month we agreed to include the verifying signatures on QSL's in the 'remarks' portion of the QSL log. For practical reasons, though -- that space being very limited, for one -- signatures from now on will be found here in The Little Black Book. So if anybody is looking for the name of the specific individual at a station to whom a reception report should be addressed, you'll find it here (so long as it was sent to us). Adding a special section like this for sigs is a good idea that came from a wunner. If anybody's got any other ideas for ways to make the QSL Report more practical to read and useful, feel free to tell us how.

NNN0NUW - Mars Shore Station, Whidbey Island, WA - signed Debbrah Banta MARS Operator.
NNN0MCL - Mars Shore Station, Camp Lejeune, NC - USN/US Marines, postcard listing 7 Navy/Marine call-signs - signed LCPL David Hutchinson, HQ BN CEO MARS.
NNN0NWV - MARS Shore Station, Naval Security Group Activity - signed Raymond Trendle, Station Chief CTR2-USN.
Canadian Forces Meteorology and Oceanographic Centre, Halifax, NS, Canada - signed Wayne Lumsden DCOS.

# # #

BERT VAN RIJ of Naaldijk, the Netherlands this month submitted a total of 27 QSL's, representing a year's work between June 1995 and June 1996. Some of the QSL's were verified with the assistance of return postage, in some cases without, with Canadian or American 'green,' or with a mint stamp from the country in which the station is located. Among the QSL's in Bert's list was one in particular from KING HUSSEIN JY1, of Jordan. The King is a first-class amateur DX catch, Bert, but I think even he'd be surprised to find himself turning up in a utility log! You just couldn't resist, could you :)

# # #

STEVE BOTTOM of Australia posted some information on WUN a while back regarding flights of classic turboprop ELECTRA freighters carrying tuna express. The flights, it turns out, are regular and can be QSL'd. "It's across to Honiara (Solomon Islands) about 3 to 4 times a week," says Steve, "out

again (for example) 15.08.96 Australian date, that is from about 11:00 pm local. All flights to Honiara by Charrek leave about 11:00 pm due to customs arrangements. Flights this week were Thursday, Saturday, so departing here 11:00 pm Thursday night, 3 hours about to Honiara, 2 to 3 hours about on the ground in Honiara then a 3 hour flight back to Cairns sees them here about 9:00 am local. You're looking for Pacific Air Express-#### around 20,000 feet alt., on 5643, 8867 kHz. It will be about 45 mins. to 1 hour before he comes up on HF, so allow time when trying for this aircraft. Not too many Electra's around to log any more. If any of you log this flight, I have a QSL address for you." Steve can be e-mailed at: sirsteve@ozemail.com.au.

# # #

// Selection of Multilingual Reception Reports // // Would Be an Aid to WUNNERS //

One of the biggest problems facing English-speaking QSL'ers is writing reception reports to utility stations in countries or parts of the world where the language spoken isn't English. When you consider all the possible barriers and stumbling blocks to a verification, including return postage or just getting attention, this has to be one of the most, if not THE most serious drawback. Some ute listeners might be so fortunate as to be proficient in maybe one other language besides English, but most of us are certainly not language experts beyond that.

An alternative for those who make a lot of use of personal computers, and who maybe also spend a good deal of time checking out various resources on the internet, is PC-compatible language-translation software. It's as easy to obtain as logging onto your service provider, going into your web browser, doing a general search for shareware sites, and then downloading a translation program in any number of languages from Croatian to Spanish. The bug, though, is then getting it to do what you need it for. And this is where some users, including myself, have discovered the limitations of translation software that frequently render it less useful than even an ordinary translation dictionary.

On the other hand, sometimes an application can come along that is specifically written to measure for a special kind of translation task. The other day in rec.radio.shortwave someone was looking for a specific program or book that would assist them in writing reception reports in foreign languages. A reply mentioned a book called "Language Lab - The Foreign Language Reporting Guide," written by well-known DXer Gerry L. Dexter. The translation aid's promotion copy claims that it "leads you step-by-step through the process of writing a reception report in a foreign language - from salutation to the closing," and is available in Spanish, French, Portuguese and Indonesian versions for $14.95 each from Tiare Publications.

This led to a discussion with WUN's Rick Baker about the relative merits and drawbacks of software and other means of translation, and he agreed that there is a dearth of available resources for ute listeners' reception report needs. While he has used software for such purposes, he also experienced the same sort of dissatisfaction with it. An alternative that he has found is to call upon the assistance of French-speaking internet friends. "I wrote a half/half letter for French warships I was snagging at the time. It worked pretty well." Using this method, here is what he came up with:

28 Fevrier, 1995

Francis Garnier (L-9031)
Navire Radio Officer
00300 ARMEES
France

Cher monsieur,

I am a shortwave listener (SWL) from Austintown, Ohio, a suburb of Youngstown (041.44N, 080.58W) here in the United States. As a hobby, I enjoy listening to the HF les bandes maritimes. I am

also working on my amateur radio license.

Le 22 Fevrier, 1995 at 0044 UTC, it was my pleasure to receive your ship, "FANI" on 8367.2 Khz in morse code (CW). This was working FUF. Your international callsign "FANI" was used and a QSY was made to "4". I thought you would like to know that la qualit du signal: bon. Signal was medium strength and clear here in Ohio, puissance du signal (QSA) tait tr de "S-5". L'quipement que je me suis servi pour la reception de votre transmission consiste d'un metteur/rcepteur Icom R-72 HF receiver, using a 50 meter random wire antenna, end fed with coax.

As a part of my hobby, I collect QSL/PFC (le verifier) cards from ships and stations I hear for a large wall 'exposition'. This now includes over 155 warships from 7 countries. It would be le honorer to add "FANI", Francis Garnier, to my display. I'd appreciate it if you could verify (QSL) this reception if its correct, when you get some time. A Prepared Form Card (PFC) to be completed is enclosed, as is a self-addressed label and French timbre-poste to cover the cost of the mailing back.

I very much 'apprecier' your time, and thank you in advance for taking time from your busy day with my letter. I am very sorry for my bad and limited French!

Au revoir,

Rick reports that with this letter he was able to obtain an 80% return rate, changing only the month and other relevant data. But what does this make of other languages that might not be quite as easy as FF? For example, one of my dreams lately has been to QSL Warszawa Radio SPW (a booming signal into N/A from a station that at one time boasted the world's tallest guywired structure for an antenna!) The trick is not so easily turned in a language, Polish, of which I know zilch.

But says Rick: "I think, especially in maritime and military, there is enough English to at least get them by. Second languages are much more common than here in the U.S., and often it's English. In my other letters, I've always used English. For example, I've logged SPW in English, as well as other Polish stations, so they should understand enough to QSL." The clincher, he says, may be in choosing key words.

Which brings us to one of the more important points of this article. It would be nice if here on WUN we could compile a file in .ZIP format of assorted reception reports and cover letters to ute stations that could be downloaded by anyone wanting to QSL in a language at which he has little or no proficiency. It might be nice to have a standard text in English that covers all the basic details of a report, and then versions of the same one in different languages, knowing exactly what's in the original. Or else we could simply collect as many versions and types of reception reports in as many languages possible, and their authors could add comments to them, like the rate of return and degree of success with them and other corresponding data that might assist the next user. They don't have to be perfect translations by any means, keeping in mind that broken English seems to get through quite well, but that good renditions will likely obtain better results.

So far we've got two letters, both in FF. Other languages that might be especially in demand lately are Spanish, German and the above-mentioned Polish. Send them to the above postal or e-mail addresses, or also at: barrym@globale.net. Remember that there might be a language at which you personally are not very adept, but someone else is, while they might find your skill for another language especially useful.

Until next time, remember when sending us your QSL's to include (1) their mailing addresses, and (2) the verifying signatures. Thanks and ZKJ.

Thanks to this month's contributors:
(BVR) Bert van Rij, Netherlands
(MR) Mike Rivkin, USA

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SURFING THE LONGWAVES

Editor: George Karayannopoulos, N2OWO
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RADIO ON AUDIO (part 2)

Here is part 2 of Steve McGreevy's natural radio article. Enjoy!
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''A WHISTLER SERENADE''
(part 2/3)

A LISTENER'S STORY ABOUT ELF/VLF "NATURAL RADIO"
EMISSIONS OF EARTH IN THE 0.1 TO 10 kHz FREQUENCIES

By Stephen P. McGreevy, (spmcgrvy@ix.netcom.com/s.mcgreevy@genie.geis.com)

My difficulties with whistler receivers and antennas was now behind me, but I still retain very fond memories of the beginnings of my own interest in whistler listening and study. In June 1989, Gail and I heard our first whistlers "live" while camped deep in the eastern Oregon desert near Steens Mountain. In anticipation of the trip and not yet aware of more advanced receiver circuits available for this pursuit, I built a crude "whistler-filter" which I knew would at least block out a lot of the potential man-made signals which might overload my tape-recorder's audio-amplifier. During the days leading up to desert trip, Summer thunderstorms had been plaguing the Great Basin areas of central and northern Nevada the result of the typical summertime "monsoonal" moisture which sometimes gets driven up northward from the southwestern states of Arizona and New Mexico toward the inter-mountain region of the western U.S. (including Utah and Nevada). July and August are the months of the most spectacular lightning storm displays that pound almost daily throughout the deserts and mountains of western North America.

As Gail and I arrived at our intended campsite in the Black Rock Desert of northern Nevada, one of the more fiercer-looking cumulonimbus clouds drifted in our direction, and a light rain began to patter the parched desert dirt. Shortly thereafter, the wind picked up accompanied by the rumble of thunder. It looked like we were going to be in for quite a bit of this judging by the looks of the clouds. As we tried to set up our "Tahjmatent" a huge dome tent which was tall enough to stand up in and roomy enough for 10 people to sleep in the winds started to blow so hard all Gail and I could do was just stand there holding the now horizontally flailing tent. The situation seemed rather dismal, however the skies to the north looked almost cloud-free, so we decided to cram our big wad of a tent and other supplies back into my small Toyota coupe and head farther north to an alternate location in Oregon about 100 miles away. We would return to the Black Rock Desert the following month under clear skies.

Arriving in the Alvord Desert of south-eastern Oregon with about 1 1/2 hours of sunlight left, we set up the tent under clear blue skies while occasionally stealing glances at the still ominous-looking skies to the distant south, hoping it would not come up our way. Fortunately, we were spared any further harassment from the weather and I became confident I could unroll my nearly 500 meter-long wire across the sagebrush. I connected my whistler filter to this wire and "grounded" the other connection to the car. Connecting my tape-recorder to the filter, I was rewarded by loud snapping and crackling from all the lighting happening south of us.

The following morning at sunrise under cloudless skies, I turned on the tape-recorder and listened to the now greatly reduced amount of lightning static. But, a few of the louder lightning "pops" had whistlers (or what I thought sounded like "whizzers") happening a second or two afterward ! I shouted for joy and thrust the headphones at Gail for her to listen, too. We were hearing our first whistlers, though they sounded different from the few I had heard recorded on cassette tape by Michael Mideke back in central California. The whistlers went on for an hour or so then died away. The following morning, the whistlers were back, but even louder! An already very enjoyable desert trip had turned into a milestone for me!

Now that I had heard whistlers on my own, I became "hooked" with this very esoteric aspect of radio listening. I had been enjoying shortwave listening to stations around the world and amateur "ham" radio for the past dozen years, but this was something very new and fascinating something that played well into my other casual and hobby interests in geo-physics, meteo rology, and radio wave propagation studies. Over the next few years, I would learn a great deal about natural radio phenomena and how to build excellent receiving equipment to listen for whistlers and the like. One of the main goals was to build a whistler receiver that would not require a whole roll of antenna wire but only a small whip antenna a desire which came to fruition in the spring of 1990, when I "accidently" heard a loud whistler while rolling up the final few meters of antenna wire. I knew it was possible to hear whistlers with small antennas, and as I've already mentioned, a prototype to my portable hand-held "WR-3" receiver was devised a in the spring of 1991 with the help of another radio friend, Frank Cathell of Conversion Research.

In addition to all of my whistler receiver tinkering, trials and successes mentioned above, serious and regular natural radio listening (and quality recordings) began in February 1991, when nearly every Sunday morning well before sunrise (the "prime time" to listen for whistlers), I would pack my favorite whistler receiver, a small reel-to-reel tape recorder, and lunch into a knap sack and bicycle to the nearby hills. Upon reaching the base of the hills, I would then dismount and walk the bike up via a fire access-road to my favorite listening spot a flat ridgeline overlooking much of Marin County, San Francisco, and San Pablo Bay at an elevation of about 600 feet above sea-level which I began calling "Whistler Hill." Here, I would listen for whistlers, and if there were any happening, run the tape recorder. I was rewarded by many beautiful sunrises and many nice whistlers on my weekly visits to Whistler Hill, and I was quite happy with my current receiver, a unit which used a 66-inch whip antenna, called the "MC-1." One memorable morning near Easter 1991, a "huge" whistler the loudest of the morning occurred just as the sun began peeking above the north-north-eastern horizon. It was in this year that I would really discover the aesthetic beauty of whistler listening while out in nature!

While I was always glad to hear whistlers in the hills, it was not always easy to awake at 4 a.m. in the cold and bicycle the few miles up to Whist ler Hill. Many of those Sunday mornings would have been better spent sleeping a few hours longer, but Oh!, was I so glad when those whistlers would be pouring forth in my receiver's headphones as another gorgeous sunrise was forthcoming then I was always glad I made the effort to get up early! But then again, I would sometimes get up to Whistler Hill only to hear NOTHING except the everpresent crackling of Earth's ongoing electrical storm commotion. And if the weather was gloomy, I was usually tempted to ride back home instead of continuing on my usual 8-10 mile bike and hike.

Why DIDN'T I stay home and listen to whistlers from the comfort of my bed, as is generally possible with more conventional broadcast radio? The problem lies with the electric-mains grid which has spread nearly every place man has settled. Alternating-current electric power lines emit "hum" at 60 cycles-per-second in the Americas, and 50 c.p.s. (Hz) in Europe and Asia. In addition to these "fundamental" AC power frequencies, "harmonic" energy is also radiated (120, 180, 240, 300, 360 Hz, etc.), or as in Europe and Asia: 100, 150, 200, 250, 300 Hz, etc.) often to well above 1 or 2 kHz. Since whistler receivers are sensitive to these electric power frequencies, any natural radio events which might be occurring get

masked by this terribly annoying humming sound, should one try to listen anywhere near AC powerlines.

The only solution to AC power-line "hum" is to locate a listening spot away from AC power poles and wires often as far as several miles before the hum levels are reduced to low or nil levels. This necessitates walking, hiking, bicycling, or driving to remote locations where there are few or no AC power lines easy to do in many parts of California and the West but often very difficult in flat land or urban locales. Sometimes, and with good filters in the whistler receiver one can listen as close as a couple-hundred feet (or maybe even closer) to residential AC electric wires. On a few fortunate and astounding occasions, whistlers can get so loud as to even be heard through the loud power-line hum levels encountered in a suburban backyard, demanding the whistler listener to immediately relocate to their favorite "quiet" listening spot in order to hear and tape record such magnificently giant whistlers, and at the same time praying that the monster whistlers still are going on when the whistler receiver is again turned on! Murphy's Law and my experiences generally suggest they will be gone and not to return until another inopportune time...

My tape libraries of whistlers and other natural radio phenomena vastly increased in late 1992 and throughout 1993 and early 1994. The stimulus to get out and make natural radio recordings came when, after purchasing a "camper-van" in July 1992, Gail and I headed up California's North Coast, stopping for the night at Westport Union Landing Beach north of Fort Bragg. We heard nice whistlers that evening and morning during darkness using our WR-3's clamped in the van's rear doors while laying in our comfy beds. Occasionally, however, one or both WR-3's would slip out of the door and nearly hit our heads. Gail came up with an idea to have a whistler receiver with an antenna that could remain outside while a control box could be put next to the beds. Well, I got right to work on this great idea of hers upon returning home, and quickly designed an excellent "WR-4" whistler receiver in which the receiving antenna (2.5 meters in length) is mounted on the van's read door ladder and the control-box containing filter switches, headphone and tape-recorder jacks, etc. could be placed next to the bed! Now, I could make recordings while comfortably in bed, even while dozing off letting the recorder run for 45 minutes or until I awoke to monitor the situation.
Since recording became very "convenient" while camping no more sore arms holding the receiver out the window or standing out in the cold and win, and not as much sleep deprivation as before I (alone or with Gail) am now able to locate to superbly quiet camping/listening locations deep in the desert or near mountainous areas and wait for conditions to present interesting natural radio sounds. The past couple of years has seen the combining of my enjoyment of camping and road trips with natural radio listening.

The ease of whistler listening with the WR-4 and our love or camping trips has resulted in about a hundred hours of recording in 1993 and 1994 from over 10,000 miles of travel a natural radio tape library which has become one of the better ones from an amateur, but I have no doubt that Mike Mideke's has to clearly be the FINEST amateur/hobby tape library in the world, since he LIVED in a quiet location free from strong powerline "hum" and has not had to travel to enjoy natural radio.

When Donald Cyr initially inquired if I would like to contribute some thoughts on whistler listening and experiences during the past couple of years since I last contributed material to his book: America's First Crop Circle; Crop Circle Secrets Part 2, I said "sure, I'd love to write something for your new book." Don was interested in any information I might be able to offer, such as where the best places to hear whistlers are, or if I found any particular places that whistlers were consistently stronger than in other locations. I assume he was hopeful that my findings might tie in to his theory, which I'll call "The Marion Island-Wiltshire Plain Crop Circle Theory," (a name I have created for this article) that suggests whistlers at least the ones which might have caused many English Crop Circles in the late 1980's and early 1990's-are highly localized phenomena that are launched at a given point, such as Marion Island in the south

Atlantic Ocean, and are ducted via the magnetosphere along a line-of-force to the northern hemisphere, specifically, to southern England, where they, if they do not cause odd impressions in wheat fields of the Wiltshire Plain, will nonetheless be very LOUD indeed to one listening for them with a whistler receiver.

Don's theory, backed by his friend and colleague James Brett, was first presented to his readers in CROP CIRCLE SECRETS, PART 1, published in 1991 and highly recommended reading for this discussion as is PART 2, published n 1992. This particular book of Don's generated a good deal of interesting dialogue, and discussion. Of course, Don and James's Crop Circle Theory was really aimed at stimulating query and discussion about the what the mysterious forces which might be creating such incredible and beautiful impressions in the English landscape and that is the true driving force of inquiry and research. Other theories were pondered, suggested, debated, and dismissed by various contributors to Don's books, and they ranged from elaborate UFO theories, vortices and balls of light, military exercises (there are several military installations in that English region), underground forces of electromagnetic nature, to suppositions that they were plain and simply, artistic hoaxes concocted in the night by creative people armed with poles and chains.

Don and James were fascinated by the whistler theory as presented by researchers Storey Helliwell, The Institute of Radio Engineers (I.R.E.), et al., and they thought this theory was as good (if not better than most) at explaining a possible origin of Crop Circles. What seemed fascinating to Don and James was that Marion Island, also home to a secretive military installation, was at the far end of a magnetospheric duct, i.e., at a conjugate point to south-western England. Perhaps lightning storms, enhan ced by the odd geography of Marion Island, or perhaps, a secret military experiment there, were generating great bursts of electromagnetic energy that would enter a magnetospheric field-aligned duct and arrive in England as a powerful whistler, which would cause Crop Circle by perhaps affecting the stems of the wheat stalks in odd manners.

>From a scientific point of view, however and from what both amateur and professional whistler listeners and researchers have found it is hard to believe whistlers were so concentrated in their energy area and also "intelligent" to create such lovely patterns in the English fields. Radio engineers and other "technical" people involved with radio waves generally know that it is impossible to confine a radio wave to an area or volume less than 1/2 its wave length. In the case of whistler energy emerging from the confines of its duct and resuming the velocity of light (300,000 km/186,000 miles per second), its (full-wave) size is from 19 miles at 10 kHz to almost 190 miles at 1 kHz pretty large! Mike Mideke eloquently expressed this reality in the final few paragraphs on page 27 and the first few paragraphs of page 28 of CROP CIRCLE SECRETS. Part 2. Also, the power of a radio wave (also known as the "field-strength") from even the strongest and loudest whistlers ever heard and/or recorded by anyone have never been as strong as the VLF radio waves generated from nearby lightning storms, though the lesser energy from whistlers is of course sustained much longer than the split-second burst of energy from a lightning stroke, and, or course, whistler radio energy does differ substantially from a lightning bolt's.

While whistlers would hardly seem to be so super-concentrated in their strength and focal area to cause such intricate and sharply defined impres sions in plant material like crop circles, data gathered in the past 35 years by manned and un-manned monitoring stations located worldwide has found that whistlers do occupy a "footprint" 3 that is-they are heard loudest at a given location at ground level, and then gradually weaken as one moves concentrically away from "ground zero." Most whistlers are heard in a 500 to 1000 mile radius from the exit point region of its duct, though it's sound characteristics may be different from one place to another within this whistler reception area. Whistlers also tend to cluster in the middle and upper-middle latitudes of the globe between 25 and 60 degrees north/south, and are rarely heard at the "geomagnetic equator" a wandering latitudinal line on the globe at the half way point of any great-circle

line drawn from Earth's magnetic north pole to Earth's magnetic south pole.

Most of the continental United States and southern Canada are between these latitudes to hear not only splendid whistlers but also beautiful VLF radio "chorus" from Auroral displays. The same goes for most of Europe, especial ly the British Isles and Scandinavia. In the Southern hemisphere; southern Argentina and Chile; the southern parts of Australia, particularly Tasma- nia; New Zealand; and perhaps, the Cape Horn region of South Africa, are similarly at the right latitudes to hear whistlers and chorus. The South Island of New Zealand and the Tierra del Fuego region of South America, plus the Antarctic Peninsula, are where the good displays of Aurora and auroral chorus can be seen and heard.

Listening to whistlers from near one's home town or on road trips can be very enjoyable and inspiring, but it is even more fun to travel abroad and check out whistler reception in other parts of the world. In late May of 1992, my father and I went on holiday to Ireland, enjoying a 12-day coach tour of the entire country. I brought my pocket-sized WR-3 whistler recei ver, hoping to catch and record some "Irish whistlers." The first night happened to be at the Clare Inn not far from Dromoland Castle and Newmar ket-on-Fergus. Surrounding this hotel was a beautiful golf course, small lake, meadows, and woodlands. There were only a few powerlines near the hotel and main road to Ennis, leaving much of the golf course and meadow land fairly free from excessive Ac power hum, and therefore, good spots to listen for whistlers, as I tested out a few hours after we arrived blea ry-eyed from an all night flight across the northern Atlantic.

In anticipation of hearing whistlers in this quiet and exotic location, I spent much of the pre-midnight period walking around with my Sony LW/MW/SW- /FM radio, enjoying the Irish Radio Telefis Eireian (RTE) 1 & 2 radio networks, and the nighttime reception of British and European mediumwave (AM) stations, tape recording much of this reception with my trusty mi cro-cassette machine. At around midnight, after the BBC on longwave 198 from Droitwich signed-off after the maritime weather report and a cheery "good night," I flicked on my WR-3. Lo and behold, there were nice whistlers, albeit only occasionally, since it still was a bit "early" for the really good whistler shows, which like to start up after 4 am. Cat ching some sleep in the woods (the hotel was rather far-off at this point) I awoke around 3 am, turned on the WR-3 to hear more whistlers and there were LOTS of them, followed by weak "Auroral chorus" that rose up from the static at around 0400, and remained past my first Irish sunrise, when I drifted back to the hotel room to catch an hour or so of terribly-needed sleep!

That night would prove to be the only place our tour group would spend the night where there was open space the rest of the hotels we stayed in would be located in towns or deep within Dublin, and surrounded by hundreds of electrical lines with no access to large open spaces. I had to be happy with broadcast listening with the Sony, which was always very interesting, anyway. It sure was great to now have natural radio recordings from outside the West Coast.

While scientists and hobby whistler listeners have pretty much determined what regions of Earth are in "whistler country," it is never possible to predict where, at any given time or on any given day, whistlers will be heard loudly, weakly, or even at all. It's conceivable there are days where a whistler hardly occurs anywhere on the globe undeniably there are days and even weeks when not a single whistler is heard by listeners located in otherwise ideal whistler reception regions of Earth, such as Ireland and Europe, the northern tier of the U.S., southern Canada, New Zealand, and so forth.

Conversely, there are days when there seem to be whistlers happening nearly everywhere, as though a giant switch was turned on somewhere in Earth's magnetosphere to issue forth a barrage of weak and strong whistlers too frequent to count! Like weather fronts and hurricanes, it would appear that given a day when things are ripe for strong whistler production, the loca tions that strong whistlers are heard constantly changes, depending on

the locations of lightning storms; the magnetospheric whistler duct begin nings and end points; and the day/night region of the globe particularly the midnight to 6 a.m. period which, as we all know, moves westward 15 degrees an hour.

Thanks to simultaneous whistler monitoring and tape recording efforts, first by 1950's and 60's whistler researchers such as Storey, Morgan, Helliwell, etc.; and later by coordinated amateur and student study groups, hundreds of individual whistlers have been documented. Their findings have determined that the average whistler is heard in an area of about 500 miles radius, though the "big whoppers" may be heard as far as 2000 to 3000 miles from its loudest "arrival point."

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We will continue with the final part of Steve's fascinating article next time. If you are on the Web, you can find some great samples of recorded whistlers on Steve's Web pages, at http://www-pw.physics.uiowa.edu/mcgreevy/ Among all kinds of information, Steve has placed a number of zipped sound files for you to download and hear. Check it out!

That's it for now, radio friends. Until next time,
73 es gud DX, de
George, N2OWO
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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Info wanted

A yet unknown system can be heard in Europe on 131.7, 133.2, 144.6, 146.4 kHz and between 132.27-132.88 kHz. Two stations operate on each frequency. The transmissions sound like the Hyper-Fix stations (sample on our home page) but it is definitely no Hyper-Fix. One of the rumoured possibilities is DTRAK, a tracking system for trucks with stations in the UK. I can hear a couple of these stations very loud here in the Netherlands, so there may be other stations in Western Europe as well. Any info on this subject is most welcome.

Radio navigation signals...

yet another update. Va‹n” Lehtoranta sent me comments with regard to items in the original series (newsletter 1/11, 1/12, 2/1, 2/2).

1) a new DGPS station became operational in Turku (Finland) on 21-6-96 transmitting in 100bd MSK.
2) RSBN was erroneously listed as satellite system. It is a terrestrial UHF system resembling TACAN.
3) There is currently no MARS-75 chain in the Gulf of Finland.

CHESS

A couple of months ago I reported a new Over-The-Horizon (OTH) system by Sanders, a Lockheed Martin company. Sanders' Larry L.Ledlow jr told me that Sanders recently developed an even more sophisticated OTH system called CHESS. So, what is it and how does it work ?

High frequency (HF) communication has been generally associated with low data rates, due to bandwidth constraints, and unreliable performance for long range communications because of the time-varying nature of the communications channel. Fortunately, with the advent of digital signal processing (DSP) and innovative system design, many HF deficiencies can be corrected. Sanders has developed a new technology to satisfy increasingly demanding OTH communications requirements: the Correlated Hopping Enhanced Spread Spectrum (CHESS) high-speed data radio.

Many tactical communications beyond normal radio line-of-sight distances are relayed via satellite or aircraft. These options are both expensive.

Also, satellite access and bandwidth may be limited, and weather can severely constrain aircraft operations. HF links however are available virtually around the clock while there are no high usage costs. Signals are propagating along the earth's surface or via skywaves. The problem however is the plague of every dxer, namely interference/noise and bad propagation conditions. They can be extremely variable and difficult to predict.
OTH via HF therefore presents unique challenges. What you need is a system with modulation tolerant of widely varying noise and interference levels, one that will not interfere with existing HF users, and also does not require an impracticable, high signal-to-noise ratio (SNR). High SNR is undesirable when communications must remain covert or have low probability of intercept. Contrary to skywaves, a signal transmitted via surface wave does not suffer from selective fading and other distortions. Co-channel interference can prove problematic though.

Spread spectrum (SP) in general offers several advantages over conventional modulation techniques. First, both direct sequence (DS) and freq. hopped (FH) techniques afford some protection against unwanted detection and jamming. Second, SP has its advantages against frequency selective fading. Adaptive FH systems can adjust to changing band conditions by selecting frequencies with least interference. That's where CHESS comes in. CHESS' power lies in DSP for waveform generation, detection, and correlation as well as data encoding. A digital HF (2-30 MHz) receiver provides downconversion of a selected 2 MHz-wide band segment. A multiprocessor DSP board performs signal detection, correlation, and waveform generation. Data may be sent and received through an asynchronous RS-232C serial link. CHESS transmits 5000 non-overlapping hops per second. Each hop consists of an unmodulated pulse at a specific frequency.

As said, HF propagation may be a nuisance. To improve the performance, CHESS uses Automatic Link Optimization (ALO). This system picks the best possible frequencies during the sounding process between two transceivers. Each transceiver may use a different frequency set within the band because of local variations of interference levels. Communications via surface wave were succesfully tested over a distance of 150 km with only 200W output. The baudrate for line-of-sight ground wave transmissions was 9600 bps and went even up to 14.4 and 28.8 kbps for short range transmissions. Skywave transmissions were tested at 4800 and 9600 bps.

That's all I have for you at the moment. CU next month. -Ary-

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W O R L D B A N D S C A N

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Greetings and welcome to another edition of WORLD BANDSCAN. Due to the tremendous support of everyone we have a bigger (and better) column than ever this month. Contributors for this month include Day Watson, Henk Lammertink, Ary Boender, Bert van Rij, Mike Chace, Guy Denman and Rick Baker. Thanks to everyone who took the time to inundate me with their loggings!

EATING CROW DEPT: A BIG apology to Alex Wellner of Australia for omitting his contributions from the June edition of WORLD BANDSCAN. Alex made the mistake of being TOO efficient and sending me the stuff early. Needless to say, this resulted in me losing the loggings. So Alex keep contributing and I promise to NEVER let efficiency stop me again! Here's the missing logs:

7706.0	Unid Philippines net	JUL96
7725.0	Spanish number stn 4 groups by YL	SEP95
7735.0	Australian commercial users	JUN95
7737.5	Unid Philippinese net	SEP95
7740.0	Unid island phone net	AUG95
7745.0	Unid Philippinese net	SEP95

7756.0	Unid Chinese phone net	SEP95
7760.0	Unid Philippinese phone net	SEP95
7772.9	Unid Philippinese net	SEP95
7776.0	Unid Chinese phone net	SEP95
7778.0	Unid Italian net	APR95
7784.0	Unid Chinese phone net	AUG95
7788.0	Unid island net	SEP95
7789.0	Unid island net	NOV95
7795.5	Unid Asian phone net	JUL96

And make sure to check out Alex's 7800 loggings below...you'll recognize them...not many of the others of us hear the Philippines nets!!!

UPDATE: From Ary Boender comes a comment on the June edition of WORLD BANDSCAN and specifically the PBB KOOTWIJK, NETHERLANDS station noted on 7773.0. To quote Ary, "PBB is Navy Den Helder. I doubt if there still are xmitting facilities in Kootwijk. I spent several holidays near Kootwijk when I was a kid and as far as I know the last antenna was dismantled some 20 years ago. There is now a radio museum in Kootwijk. I'll check if there is a new site in that area. Kootwijk was used by the Dutch PTT for comms with former colony Indonesia till the late 60's....about PBB the transmitters are located between Den Helder and Julianadorp, about 5 km from Den Helder, not in Kootwijk. CFL and ITU apparently use obsolete info."

Much thanks Ary, with all the great help and great contributions, we are bound to clear up many of these 'mysteries' of the shortwave spectrum. On with 7800-7899. Keep in mind that the next column (in 2 months) will deal with the 7900-7999 Khz spectrum. Enjoy.

FREQUENCY	MODE	CALL	STATION/AGENCY	INFORMATION	LAST HEARD
7800.0	SSB		AUSTRALIA	Police	
	SSB	MRA01	UNITED KINGDOM	ATC Net	
	SSB		UNID	MARCONI w/pp via WAR46	
	SSB		UNID	ME clg MC/TN for rx chks	NOV94
7800.7	RTTY		MFA CAIRO,EGYPT	ARQ/FEC	NOV94
7801.0	SSB		USCG		SEP93
	RTTY	9BC22	TEHRAN,IRAN	IRNA Nx - 400/50	APR92
	RTTY	DFZG	MFA BELGRADE	FEC-A	JUL96
7802.0	SSB		US FED GOVT	Operation Secure	
	SSB		US FED GOVT	Fed.Emergency Mgmt Agency	
	RTTY		UNID	Idling 1:2 mark:space ratio	JUL96
7803.0	SSB		AUSTRALIA	School of the Air	
	SSB		MT.ISA,AUSTRALIA	Royal Flying Doctor Svc	
7804.0	SSB		NASA		
	SSB		CANADA	Bush comms; dpx:7953 Khz	
	SSB		MOROCCO	Police	
7805.0	SSB		US FED GOVT	Operation Secure	
7805.5	CW	FDY	FRENCH AIR FORCE	Orleans	JUL96
7806.0	RTTY	YZI225	BELGRADE,SERBIA	TANJUG Nx-400/50bd	JUL96
	RTTY	SNG201	WARSAW,POLAND	75bd	
7806.7	SSB		UNID	Pacific island net	SEP95
7807.1	RTTY		GERMAN DIPLO???	228.7bd/150 RS-ARQ	JAN96
7808.0	RTTY	4UZ	GENEVA,SWITZERLAND	UN: 425/75bd	
	RTTY	DFZG	MFA BELGRADE	400/75	APR96
7810.0	ISB	VER	OTTAWA,CANADA	VFT: CANFORCE	
	CW		UNID TACTICAL	c/s ZQSF/SPV5/L4JS/EITZ	JUL96
7811.0	SSB		US AIR FORCE	Air Combat Command - West	
	SSB		NORAD	tie-in to CAP	
	CW	ZOLK	UNID	'OUZT DE ZOLK QSY 66T48'	FEB96
7811.7	RTTY		MFA CAIRO,EGYPT	ARQ	
7812.5	ISB	GYU	DCN GIBRALTAR	Piccolo	
7813.0	SSB		MYSTIC STAR		
	SSB		US AIR FORCE	Rescue	
	SSB		UNID	BULL MIKE CONTROL w/test	FEB90
	SSB		UNID	53 wkg OPS w/numbers/ltrs	DEC90
7815.0	RTTY	BAA22	BEIJING,CHINA	Meteo 50bd	
	RTTY		UNID	VFT/FEC-A 3 ch.vft on usb, each	

				channel, at +1100, 1780,2460 fec/ aat 196 bds 170hz inverted.	JUL96
7816.0	RTTY		BONN,GERMANY	Roumanian Embassy-ROU-FEC164	
7816.5	CW	FDI	FRENCH AIR FORCE	Aix-les-Milles	
7816.7	RTTY		CHINESE DIPLO???	4+4	MAR96
7818.0	RTTY	V5G	MFA BUCHAREST,ROU.	ROU-FEC-164	
	SSB		NUMBERS	EE f, 3x2 fgr/grps	JUL96
7818.3	RTTY	RFQP	FRENCH MILITARY	Djibouti/ ARQ-E3	
7818.5	SSB		CANADA	Bush comms; dpx:7658.5 Khz	
7819.0	RTTY		UNID	Russian 81-81	JUL96
7820.0	SSB		UNID	Prob.Russian comms w/splx	MAR91
	RTTY	V5G	MFA BUCHAREST,ROU	ROU-FEC/crypto	APR96
7821.0	SSB		US FED GOVT	Fed.Highway Admin-F29	JUN90
7821.3	RTTY		UNID	ARQ-M2/200 idling	JUL94
7821.7	RTTY		ABUJA,NIGERIA	ARQ: NFA	
7821.9	RTTY	V5G	MFA BUCHAREST,ROU	ROU-FEC/crypto	MAR96
7822.0	RTTY	MSS	BELIZE CITY,BELIZE	Piccolo	
7822.2	RTTY	RFFVE	FRENCH AIR FORCE	Etampes	
7823.0	SSB		UNID	2 men discussing a/c & helo parts & maintenance	
	RTTY	LKF	SOUD	75/500 5 fig grps	APR96
7823.3	RTTY		UNID	ARQ-M2/200 idling	JAN94
7823.5	SSB		IVORY COAST	Telcom	
7823.7	RTTY		TUNIS,TUNISIA	Egyptian Embassy	JUN96
7824.0	SSB		AVIATION	Indonesia	
	RTTY	V5G	MFA BUCHAREST,ROU	ROU-FEC/crypto	FEB96
7824.7	RTTY		UNID	Tuning bursts/100bd,TT2300b	DEC95
7825.0	SSB		AVIATION	Indonesia	
7826.0	SSB		POLAND ARMY	Warsaw	
7827.0	SSB		MYSTIC STAR		
	SSB		US AIR FORCE	Hickham discrete	
7827.5	SSB		JAPAN	JSDA	
7828.0	RTTY		UNID DIPLO???	5 fig groups	MAR94
7828.6	RTTY	FKS	FRENCH AIR FORCE	Paris	
7830.0	RTTY	RFFA	FRENCH MILITARY	Paris	
7831.0	SSB		US AIR FORCE	W105/Z170 - STRATCOM	JUL96
	SSB		POLAND ARMY	Warsaw	
7831.3	RTTY		UNID	ARQ-E3 96/425 idling	DEC95
7832.0	SSB		SPAIN	Military	
	RTTY		INTERPOL		
7832.1	RTTY		RUSSIAN PTT???	1280bps OQPSK	JUL96
7832.4	RTTY		US AIR FORCE	MARS - 850/75 & 170/45	JUL96
7832.5	SSB		UNID	Pacific island net	SEP95
7833.0	SSB		NASA		JUN93
	RTTY		UNID	50/160 encrypted tfc	JUL96
7834.5	CW	FDC	FRENCH AIR FORCE	Metz	JUL96
	RTTY	5ST	ANANANARIVO,MADAG.	AFTN/ASECNA: ARQ-E3	JUN96
7835.0	SSB		US ARMY NATL GUARD	Honduras	
	RTTY		UNID	Russian 81-81	JUL96
7835.6	SSB		US NAVY	Pacific	
7836.0	CW	RIW	RUSSIAN NAVY	Khiva Naval, Uzbekistan	
	RTTY		UNID	200/500 SYN CONT. NO APP ACF	JUL96
7836.6	SSB		USCG	NW Pacific LORAN	
7838.5	SSB		UNID	Philippines phone net	NOV95
7839.0	SSB		US NAVY	Tactical	
7840.0	SSB		MYSTIC STAR		
	SSB		UNID	STALLION wkg BLACKLIST	
	SSB		AUSTRALIA	Commercial operations	
	RTTY	RFFB	FRENCH MILITARY	Paris	
7840.5	SSB		US FED GOVT	Dept.of Energy-Nuclear Mat.	
7840.7	SSB		DOMINICA	Port Operations	
7842.0	RTTY	IER20	GUARFI ROMA,ITALY	100/85 tfc to IER21 in II	JUN96
7842.5	RTTY	CNM20	RABAT,MOROCCO	MAP Nx/FF: 400/50	JAN96
7843.0	RTTY		UNID NATO?	75/850	JUL96
7844.0	SSB		US AIR FORCE	Air Mobility Command	
7844.5	RTTY		UNID NATO BOSNIA???	2400bps QPSK	MAR96
7845.0	SSB		USCG	3E12 - Tactical	JUL92
	SSB		UNID	Philippines phone net	SEP95

7845.1	FAX	RUHB	KHABAROVSK METEO	120/576/N/800	FEB96
7845.7	RTTY		MFA CAIRO,EGYPT	ATU-80/SITOR-A 100/170	APR96
7846.0	CW		UNID	AGGNM GTMNG WGTDI	MAY96
7848.0	RTTY		HAVANA,CUBA	Diplo tfc to Angola/Zaire	NOV95
7849.5	SSB		US ARMY	MARS	
7850.0	SSB		CARIBBEAN	Island Police Net	JAN96
	CW	FDC	FRENCH AIR FORCE	Metz-Frascaty	
	RTTY	ZAA	TIRANA,ALBANIA	ATA Nx/FF: 500/50	MAR94
7851.7	RTTY		CHINESE DIPLO???	4+4	MAY96
7853.0	SSB		US ARMY	Air National Guard	
7855.0	RTTY	ROK24	MOSCOW,RUSSIA	Meteo - 1000/50	FEB96
	RTTY		NATO BOSNIA???	2400bps QPSK	JAN96
	CW		UNID	5 letter groups	JUL96
7856.0	RTTY		UNID	75/250 encrypted tfc	JUL96
7857.0	SSB		US AIR FORCE	Lajes discrete	
	SSB		UNID	Philippines phone net	SEP95
7858.0	SSB		MYSTIC STAR		
7858.7	RTTY		ITALIAN DIPLO/MIL??	1200bps FSK	FEB96
7859.0	CW	FDY	FRENCH AIR FORCE	Orleans	JUL96
	RTTY		UNID	75/250 SYN CONT.NO APP ACF	JUL96
7859.5	SSB		US AIR FORCE	Norton AFB - 1722 CCS Net	
7860.0	SSB		NASA		
	SSB		UNID	O9G wkg P5D w/Medevac - prob. Persian Gulf ops.	JAN91
7860.5	SSB		UNID	Many units w/Brit/US accents	FEB92
7861.0	SSB		US ARMY	Tactical	
	RTTY	PWX	BRAZILIAN NAVY	Brasilia - 75bd	
7862.0	CW		NUMBERS	SS f 5lg's by man	NOV95
7862.5	SSB		US AIR FORCE	MARS	
	SSB		CANADA	Mobil Oil	
7863.0	SSB		OIL RIGS	North Sea	
	RTTY	BJZ21	WUHAN,CHINA	Meteo - 400/50	NOV94
7864.0	CW/RTTY	SPW	WARSAW, POLAND	Telcom	JUL96
7865.0	SSB	SPW	WARSAW, POLAND	Telcom	JUL96
	SSB		UNID	Russian phone net	AUG96
7865.8	RTTY		UNID	81/1000 SYN CONT.NO APP ACF	JUL96
7867.0	ISB	VER	OTTAWA,CANADA	Tfc: MKK	
7868.0	RTTY	6MK50	SEOUL,KOREA	YONHAP 50bd	
7869.5	RTTY		SAUDI NATL GUARD???	125/170 ARS-GUARD	NOV95
7870.0	SSB		PORTISHEAD RADIO	LDOC	
	FAX	NHF	USN ROOSEVELT ROADS	Weather charts	JAN96
	SSB		UNID	Pacific island phone net	SEP95
7871.7	CW/RTTY	LN2A	PTT SVEIO,NORWAY	170/50/beacon	JUL96
7872.5	RTTY	LBL2	UNIFIL LEBANON	Norwegian Forces	
7873.0	SSB		MYSTIC STAR		
	SSB		US AIR FORCE	Croughton discrete	
	RTTY		UNID	Russian 81-81	JUL96
7875.0	SSB		US FED GOVT	Interior Dept. - Pacific Terr.	
7878.0	SSB		US FED GOVT	Interior Dept. - Pacific Terr.	
7878.6	RTTY	HBD20	MFA BERN,SWITZERLND	SITOR	
7880.0	SSB		US FED GOVT	Natl Weather Service - NOAA	
	SSB		EXPERIMENTAL	KM2XMA Duke Univ., USA	
	FAX	DDK3	HAMBURG,GERMANY	Meteo - 120/288 + 576	JUL96
7883.0	SSB		US NAVY	ASW Atlantic tactical	
7884.0	SSB		USCG	3E13	JUN92
	RTTY		UNID	Russian 81-81	JUL96
7884.5	RTTY		UNID	Vocoder on USB.12 ch.each 2 phase PSK 800bds and tone at +2700	JUL96
7885.0	CW		ITALIAN NAVY	Rome	
7885.5	RTTY		SOFIA,BULGARIA	Italian Embassy	
7887.0	SSB		MEXICO	Civil Defense	
	RTTY	4UZ27	UNO GENEVA,SWITZ.	CYP/4US 75bd	
	RTTY	BZS27	URUMQI,CHINA	XNA Nx - 425/75	NOV93
7888.0	SSB/RTTY		UNID	63 wkg 68 w/RTTY problems	
	SSB		UNID	Philippines phone net	SEP95
7889.0	RTTY	ROQ3	NOVSIBIRSK,RUSSIA	Meteo - 550/50	
7890.0	SSB		NEW ZEALAND	Antarctic comms	

	SSB	VJM	MACQUARIE IS,ANTARC.	Phone call to Sydney	SEP95
	SSB		UNID	Pacific island phone net	JUL96
7892.0	SSB		SPAIN	Military	
7892.5	CW/RTTY	SPW	WARSAW,POLAND	Telcom	APR92
7893.0	SSB		US NAVY	ASW Atlantic	
7893.5	RTTY	OEC	MFA VIENNA,AUSTRIA	SI-ARQ-96	JUL92
7894.0	SSB	SPW	WARSAW,POLAND	Telcom	
7895.0	SSB		US AIR FORCE	Inform Net - Ch.A17	
	SSB		US NAVY		
	RTTY		UNID	Russian 81-81	JUL96
7895.7	RTTY		LONDON,ENGLAND	Egyptian Embassy	
7896.7	RTTY	RFLI	FRENCH MILITARY	Fort de France: ARQ-E3	JUL96
7898.0	RTTY	OMZ66	MFA BRATISLAVA,SLO.	100bd	
7899.0	RTTY	DER	BONN,GERMANY	MHA Net: ARQ-E	MAY96
	SSB		UNID	Russian phone net	JUL96
7899.5	SSB		UNID	NUMBERS w/Brit/Aus accent	MAY92

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The WUN Logs Column

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Howdy gang, still no positive ID/proper callsign was received for the USN/USAF FAX facility at Roosevelt Roads/Caribbean. I noted last month that this station, which uses Homestead AFB's old frequencies for the most part, has been logged as NAU (listed as San Juan); NHF (listed as Homestead, Fla); NRR (listed as Roosevelt Roads); and USAF AWS Ceiba, PR. We know it's not at Homestead AFB. I'm not aware of any USAF transmitters on Puerto Rico...is anyone else? This may narrow it down...

We did only slightly better on question #2 concerning the move of NAM, the U.S. Navy at Norfolk, to Cutler, Maine. The move was confirmed...the data is being sent from Cutler, Maine. But if "NAA" or "NAM" is the proper callsign we have no news. The material being sent is still marked "NAM" at times, but that's not a proof positive indication. Perhaps someone sending a QSL soon will find out?

No ID's for Navy MARS calls NNN0COT (not the decommissioned USS Fairfax County), NNN0CAA, NNN0CAT, NNN0NGU, NNN0COZ (not the decommissioned USS Forrestal), NNN0CBB, NNN0COL and NNN0CCL. Can anyone help?

We did better on an inquiry I made concerning "D4B". This station has been seen logged in about 5 variations of name. The vast majority out in WUNland agree...the ITU shows them as 'Sal'. Sal is the name of an island of the Cape Verde Islands group. Sal is about 10x20 miles in size and is not the main island of the group. Sal has about 7700 inhabitants in mainly 3 locations: Palmeira, Pedra Lume and Santa Maria. On Sal there also is the international airport of the Cape Verdes: GVAC, 'Amilcar Cabral' International/Sal I. The Oceanic ACC (GVSC) is named as 'Sal' in international ICAO listings and identifies as 'Sal' on the airwaves accordingly. 'Amilcar Cabral' is not the name of a location but of just an airport. An example would be like saying 'John F. Kennedy Intl' New York, vs New York Radio. So, the correct name seems to be "Sal Aero, Sal Island, Cape Verdes Isl". Thanks to all who took time to respond on that one. From time to time I will try to list stations that carry multiple ID's so we can get a proper ID on them.

What started out as a lean month turned into a pretty good one with logs from the Netherlands; Scotland, Ireland and England in the UK; New Zealand; Australia; Germany; Canada; Eastern Europe; Norway; Greece; Mauritius; South Africa; France and the United States. Not bad coverage, eh? I don't think I left anyone out! How about you folks in South America and elsewhere? Remember, I will not use your name if you don't wish it and even your local everyday logs are welcome as for someone else it's rare Dx! Thanks to all who took time to share their logs.

=CIVIL AERO=

2872 Air France 05 0254 USB wkg Gander (LB2) Singapore 25 0627 USB FM-BE wkg Gander/ARP 54N40W F390 .86. LOT 002 0236 USB HS-CD wkg Gander/QSY from 5649 with selcal check. Monarch 091 0102 USB CP-ER wkg Gander, Selcal check. (TO)
2941 Kiev Volmet, URS 2320 USB w/Volmet Tx in russian (JS3)
3016 Air Canada 872 0047 USB CG-JM wkg Gander/Selcal check. (TO)
3413 Shannon Volmet 0050 USB civil aviation wx. (KW2)
3452 Orange 11 0028 USB wkg Dakar/ARP est ZRT 0106 B757 of Air Holland. Sabena 501 0038 USB wkg Dakar/amended level clearance: must descend now to F310 due opp. tfc. LAN Chile 171 0042 USB BC-JR wkg Dakar/ARP ONOBI F350 767-200ER CC-CDJ. (TO)
3476 Lufthansa 451 0452 USB AL-DM wkg Gander/Selcal check. Northwest 46 0202 USB AH-FK wkg Gander/Selcal check. Delta 40 0357 USB BL-HM wkg Shanwick/ARP 52N30W F350. Air Canada 856 0400 USB CG-JM wkg Shanwick, ARP 53N30W F350. Royal Saudi AF812 0404 USB wkg Shanwick/ARP 52N40W F310. Laker 502 0415 USB FJ-DG wkg Gander/ARP 51N40W F310 fob 63.2. (TO)
3485 Gander Radio 0053 USB Volmet civil air wx //6604//10051. (KW2)
4675 Reach 3033: 2150 USB 60 10 - 2148 310 Alden 2229-VM 126.55 at boundary. (JM3)
4687 Qantas Control 0930 USB wkg Sydney wkg UNID QF flight, weak copy. (TO)
5493 Speedbird 56: 2258 USB w/Flight info to Brazzaville. Luanda 2258 USB clg Speedbird 56. Kinshasa 2301 USB clg Speedbird 56. N'Djamena 2302 USB wkg Brazzaville. Speedbird 238: 2311 USB w/flight info to Brazzaville. Austrian 532: 0006 USB w/flight info to N'Djamena. Springbook 225: 0011 USB w/flight info to N'Djamena. (JSM) TOW310 2138 USB Kinshasa/dep.LUANDA 2110 F255/330 BODEL? 2142 ETA Destination 0209 Couldn't make out any more due to heavy QRM/Jamming on this freq. BAW56 2140 USB Lubumbashi/Called several times to no avail. (RD3) Springbok 264 0300 USB wkg N'Djamena/ARP ENDOK 0300 F390. Speedbird 053 0319 USB wkg Kinshasa/ARP LHR-HRE F330 MPK 0317. Speedbird 059 0333 USB wkg Brazzaville/ARP SEVIT F370. Aeroflot 461 0335 USB wkg N'Djamena/ARP F350 Malta-Lome AMPIL 0349 PITRI next IL62 reg. RA-86532. EZR 371 0339 USB wkg Kinshasa/ARP est MOTET 0511 ETA Kinshasa 0635, req Kinshasa actual wx. Air France 426 0341 USB wkg Kinshasa/ARP KOPOV F330. Kisangani Aer. 0414 USB wkg Kinshasa re: BA053. Mozambique 707 0417 USB wkg Kinshasa/ARP KGI F370. Speedbird 054 2331 USB wkg Kinshasa/ARP UPARA F350 G-BNLA 747-400. Air Portugal 232 2358 USB wkg Kinshasa/ARP enrt Maputo-Lisboa F350 A340 reg. CS-TOB. (TO)
5505 Shannon Volmet 0404 USB aviation wx. (KW2)
5532 Springbook 225: 2252 USB wkg Joh.burg (JS3)
5535 American 972 0553 USB wkg Lima Flight Support LDOC/ARP o/h Guiana 0551 F350 smooth/clear. (TO)
5541 SDJ LDOC Stockholm 2206 USB wkg a/c which had lots of problems w/ onboard equipment. (JS3)
5541 PH-MCF 0441 USB wkg Stockholm LDOC/pp to Martinair Ops. World 107 0138 USB wkg Stockholm LDOC/ARP 62N30W ETA MUC 0415. (TO)
5547 BEAK 17 0447 USB wkg SFO/req clearance to SKA. (TO)
5550 Janes-642: 2243 USB Wkg New York. (IB) New York: (CAR-A MWARA) 0126 USB wkg Air France 031 w/posrep, JAINS 0120 330, selcal EK-GJ (747 F-GCBB). (RB) Cubana 1472 0328 USB wkg Boyeros/In SP w/ETA Havana 0500, wx. MELD 33 0342 USB wkg NY/ARP-E6A req. IFR clearance now F265 "off Due Degard." pos. 80 mis. S of CHAMP. Cleared to Tinker AFB at 0349 via after CHAMP-Sea Isle-HVQ-J78-IRW direct F260 QSY 132.15 NY CTR. United 987 0433 USB AG-ER wkg NY/ARP PRUIT F330 GRANN-ODKAM. (TO)
5574 San Francisco wkg Brunei 1105 USB 4562 Posrep (AW) San Francisco: (CEP-1/2 MWARA) 0659 USB wkg VXP1(?) or VXP51, FL360 w/posnrep, selcal ck EG-FR...whoizit? At 0706 wkg Quantas 12 w/posn, 26N/130W next, selcal LQ-CE (747 LH-OJM); at 0708 wkg New Zealand 015 posn FICKY 0709 FL310, selcal JQ-EM (747 ZK-NBT); at 0724 wkg TWA 2 posn. San Francisco: (CEP-1/2 MWARA) 0700 USB COPPI 0722 FL 310, est GREEN 0816, ATL next. (RB) Northwest 928 0517 USB CJ-BH wkg SFO/QSY OAK CTR at 127W on 134.15. Qantas 100 0518 USB HJ-FP wkg SFO/F310 in datalink w/Oakland gave reg. VH-OJA as well as selcal check. Delta 54 0522 USB AK-CH wkg SFO/ARP F320 req F340. Richair 112 0600 USB CF-JK wkg

SFO/COPPI F360 fuel 58.0. New Zealand 5 0602 USB JQ-EL wkg SFO/ARP & selcal check. (TO)
5598 CHANNEL AIR 731 0159 USB NY pos rep 47N 69W req pp w/dispatch. chg to 6640. BRITANIA 171B 0208 USB wkg NY pos rep 52N 60W selcal JR-A? ASCOT 3220: 0210 USB wkg__ posn 40W 16.43N fl310 selcal ck LM-BK. Secal watch on 6628 wkg Santa Maria (CH) ASCOT 2888: 0009 USB w/flight info to Gander (JS3) Reach 1100 0357 USB w/NY, 67.1 Fuel Rem. Pos. Rpt. FL/310 Selcal BD-JL. Iberia 6250 0401 USB wkg Shanwick, posnrpt. Corsair 927 0403 USB wkg Shanwick, FL/390, posnrpt. U.S. Air 22 0408 USB wkg NY, Selcal BG-AP (LB2) AOM551 2354 USB Santa Maria/Rx.Oceanic Clr.via 22N40W 2207N/3955W 34N30W 42N20W 45N15W NTS F330 M.84 sel/CHBL FGLMX. AAL156 1815 USB SWK/ARP 52N20W 1814 F370 52N15W 1836 DOLIP. KLM742 1820 USB SWK/ARP 46N20W 1818 F370 OMOKO 1900 GUNSO 1356 (RD3) United 2 0404 USB AG-HS wkg Shanwick, Selcal check. KLM 778 0423 USB DM-AF wkg Santa Maria/Selcal check. Continental 62 0424 USB DL-GM wkg Shanwick/ARP 48N30W F330 80.2 fuel. Air Afrique 540 0429 USB CG-BR wkg NY/ARP F330 TU-TAE A310. American 50 0447 USB AH-KQ wkg Shanwick/Selcal check. Aeromexico 037 0528 USB BC-QR wkg Gander/ETA CDG 0930 and req F370. Air France 009 0538 USB JK-BP wkg Gander/Selcal check. Lufthansa 463 0057 USB CD-HL wkg Gander/ARP 46N40W F330 req F350/370. OE-IMI 0139 USB wkg Gander/What time able F410? Able at 30W. Air Europa 118 0141 USB JR-AG wkg Shanwick/ARP 48N30W F370 767 EC-276. Speedbird 112 0148 USB HP-BK wkg Gander/ARP 48N40W F350. Swissair 111 0225 USB AG-DQ wkg Gander/Selcal check. LOT 042 0025 USB LQ-GK wkg Gander/Selcal check 767-300ER SP-LPA. Iberia 6010 0031 USB DF-GH wkg Gander/req oceanic clr YMX-MAD. Air France 531 0037 USB FL-DK wkg Shanwick/ARP 47N30W F350 48N20W-49N15W. KLM 612 0044 USB DK-BG wkg Gander/Selcal check. LTU 911 0049 USB HJ-FQ wkg Gander/ARP 44N50W F330. Alitalia 601 0051 USB JS-CD wkg Gander/Selcal check 767-300ER G-OITA. Lufthansa 463 0052 USB CG-AD wkg Gander/ARP 51N40W F330. Delta 118 0057 USB CD-BR wkg Gander/ARP 49N50W F370 fob 56.5. Speedbird 226 0120 USB KM-DJ wkg Gander/Selcal check. Speedbird 172 0139 USB EK-GQ wkg Gander/Selcal check 767-300ER G-BNWM. Corsair 925 0146 USB CE-FL wkg SM/ARP 32N40W F370. Delta 12 0147 USB EQ-BM wkg Gander/Selcal check. LTU 417 0148 USB BS-PQ wkg Gander/Selcal check. United 987 0149 USB AG-BS wkg NY/Selcal check QSY to 3494/6640. Air France 047 0157 USB EK-CG wkg Gander/Selcal check. Alitalia 603 0201 USB LR-JP wkg Gander/Selcal check 767-300ER G-OITF. Delta 140 0202 USB CK-BH wkg Gander/Selcal check. Tower 300 0226 USB DM-EL wkg Gander/ARP 50N40W F330. Frenchline 202 0226 USB BK-DJ wkg Shanwick/ARP 43N30W F350 46N20W ETIKI. Tourjet 074 0311 USB FP-ES wkg Gander/Selcal check. United 920 0315 USB AQ-JL wkg Gander/ARP 53N40W F350 N776UA 777. Speedbird 204 0322 USB AM-DH wkg Gander/ARP 54N40W F370/757 G-BPEE. Northwest 46 0327 USB CJ-AD wkg Shanwick/ARP 53N30W F350. LTU 467 0053 USB BS-PQ wkg NY/Selcal check 767-300ER D-AMUP. Britannia 148B 0054 USB CD-KM wkg NY/ARP HENCH F390. Scandi 912 0055 USB BC-HJ wkg Gander/Selcal check. Condor 227 0056 USB CM-PR wkg Gander/Selcal check. American 108 0103 USB DL-FH wkg Gander/Selcal check. Ascot 3200 0104 USB LM-BJ wkg SM/ARP 45N14W F310. Speedbird 216 0108 USB BD-AE wkg Gander, Selcal check. Martinair 632 0109 USB KL-AB wkg Gander/Sellcal check. Delta 82 0111 USB CK-BJ wkg Gander/Selcal check. Richair 941 0112 USB KQ-AS wkg Gander/Selcal check. LTU 475 0222 USB HJ-FQ wkg SM/ARP 42N30W F330. USAir 12 0113 USB BG-AP wkg NY/Selcal check. Air Europe 721 0114 USB CS-HP wkg NY/ARP CATCH F370. Sunwing 9906 0115 USB MQ-AF wkg NY/Selcal check 767-300ER EC-FCU. United 914 0216 USB AQ-GK wkg Gander/ARP 49N40W F390. Delta 80 0121 USB FG-HL wkg Gander/Selcal check. American 116 0122 USB JK-LS wkg Gander/Selcal check. Condor 051 0123 USB AE-JS wkg Gander/Selcal check D-ABUZ 767-300ER. United 952 0146 USB AG-JS wkg Gander/Selcal check. Canadian 40 0307 USB HL-EG wkg Gander/ARP 51N40W F330. United 924 0214 USB JP-DG wkg Gander/Selcal check. Air Portugal 317 0217 USB BM-AR wkg Gander/ARP 45N50W F370 A310 CS-TEH. Iberia 6620 0229 USB KM-AJ wkg NY/ARP 42N40W F350. Leisure 712 0302 USB CR-EQ wkg NY/ARP HENCH F330 G-UKLH 767-300ER. AIREVAC 7R3 0306 USB wkg Gander/ARP 48N40W F370. United 906 0317 USB AQ-BJ wkg Shanwick/ARP 51N40W F390. Transat 224 0410 USB EL-AJ wkg Gander/Selcal check. (TO) Gold 61/66 2150 USB to Bamba point, contacting Lisbon control on 128.9. (JP2)

5610 Leisure 602 0400 USB wkg Portishead LDOC/pp to Ops, ETA late 0730. (TO)
5616 Upset 88 1045 USB Posn 54N15W 1043 FL310, 55N20W 1109, 55N30W next. Reach 207 0906 USB Posn 50N30W 0903, 51N20W 0951, 51N15W next. (ANUK) Soda 51 1310 USB Shanwick (KC-135E 151 ARS, ANG) west of WD8 (in the UK) req. VHF for clearance: 123.95. Reach Z1 2141 USB Gander (yes another Reach Z1, at the same time!) 46n 50w 2139 fl330, 46n 40w 2227, 46n 30w 2230 46n 40w 2229 fl330, 46n 30w 2317, 43n 20w -> Shanwick. Navy JM692 1617 USB Shanwick call special handling Shannon on 131.5 when in range for fuel request. Flight was selcalled! C-20? (BH) Polar-R2 2055 USB Wkg Shanwick 58N/20W (IB) American 155 2147 USB w/posrpt to Shanwick. N475QS 2152 USB gave posrpt to Shanwick. American 155: 2244 USB w/flight info to Shanwick (JS3) Continental 28 0426 USB CM-BE wkg Gander/Selcal check. Air Club 730 0432 USB DL-CK wkg Gander/ARP 57N40W F330. TWA 900 0433 USB DJ-AG wkg Gander/Selcal check. Continental 20 0439 USB CM-BG wkg Gander/Selcal check. Laker 504 0444 USB FJ-DG wkg Gander/Selcal check. EYORE 99 0527 USB wkg Gander/ARP 65N60W F370 ID anyone?. RAID 71 0554 USB wkg Shanwick/ARP 59N30W F370. Air Canada 856 0151 USB JK-AH wkg Gander/Selcal check. Delta 124 0152 USB CK-BF wkg Gander/Selcal check. United 918 0203 USB AQ-CM wkg Gander/Selcal check. Continental 58 0206 USB DL-JM wkg Shanwick/ARP 51N30W F330. HUSKR 61 0208 USB wkg Gander/c/s spelled out ARP 48N40W F310. United 964 0040 USB AG-KS wkg Gander/Selcal check. Delta 108 0124 USB JM-DL wkg Gander/Selcal check. Delta 38 0125 USB AK-DF wkg Gander/Selcal check. Air Club 734 0141 USB DL-CK wkg Gander/ARP SCROD F370. Delta 32 0143 USB FL-AQ wkg Gander/Selcal check. N288Z 0307 USB DF-EL wkg Gander/ARP 54N40W F390 .79 DA900. USAir 894 0209 USB BF-DP wkg Gander/Selcal check. Continental 34 0211 USB GH-AE wkg Gander/Selcal check. Delta 70 0212 USB EQ-AF wkg Gander/Selcal check. Delta 106 0216 USB EQ-AK wkg Gander/Selcal check. TWA 840 0222 USB DH-EM wkg Gander/Selcal check. Canadian 54 0233 USB HL-EG wkg Gander/Selcal check. Continental 20 0234 USB CM-BG wkg Gander/Selcal check. Transat 873 0238 USB HK-DM wkg Gander/ARP 59N30W F310. United 952 0241 USB AG-JS wkg Gander/Selcal check. Air Canada 878 0256 USB HP-EF wkg Gander/Selcal check 767-233ER C-FBEM. Canadian 62 0355 USB DQ-CM wkg Gander/Selcal check. (TO)
5634 Air Cargo 341: 1322 w/Perth their only a/c is VH-TBS 727-77F (JSM) Qantas 160 1009 USB wkg Perth/req F350 SGN-SYD 767-300ER. (TO) Qantas 4 2011 USB -> 128.6 at Jordi (BH)
5637 SX-OAE (An Olympic B-747) 0647 USB requests selcal check from Athina Radio, w/selcal id "DL-BE". (CK)
5643 Pacific Air Express 2013 USB 3518 fl390. Pacific Air Express 2013 USB squawk 0623, -> 123.8 (Cairns Approach), adv Cairns estimate lisbon. Qantas 100 2024 USB selcal GKEM. Qantas 100 2052 USB .... 2049 fl390, limal 2138 -> 127.0 (Melbourne) at limal. Cathay Pacific 107 2037 USB peter - sogol. Qantas 40 2043 USB req. climb, fl390 not available due crossing traffic, later descending fl310. New Zealand 32 2056 USB. New Zealand 2102 USB kamik 2132. Air Cal 140 2058 USB. Singapore 288 2100 USB opogo 2056 fl370, popol 2127. At popol contact Auckland, later discussion between Brisbane and Auckland aby popol estimate, Auckland "hearable" only. Korean Air 663 2101 USB contact Nadi on this freq. New Zealand 101 2104 USB (BH) Cathay-107 2120 USB Wkg Brisbane (IB) Solomon 711: 0712 USB w/Nandi @ 175mi DME fm Port Vila a/c type? Ansett 874: 0644 USB w/Nandi @Brisbane FIR boundary "CG-BK" VH-EWD Fokker F-28. Freedom Air 712: 1254 USB w/Auckland approaching the Hokitika NDB 42-44S/170-57E for Christchurch landing visib down to 600' in fog/rain, prob N371TA their 737-300. Royal Tonga 193: 1256 USB w/Auckland"MOMTA" (30-00S/179-43.5E) for Tonga; .34mach is this their BAE 748? Air Van 32: 1328 USB w/Nandi "ENOUS" (14-00S/ 162-11.5E) "EP-DR" VH-TJI 737-400 MEL-VLI. Fine Air 57FB: 0255 USB w/Houston on the grnd Miami with r/c "CD-BF" N57FB DC8-54F (JSM) Pacific 431 0618 USB wkg Nadi/ARP F350. (TO)
5649 TC-ANC 1302 USB Shanwick confirm 30w estimate 1348. Aircraft type? (BH) ALOE 106 0218 USB wkg Gander selcal HM-CK (CH) Navy LANCER-11: 2146 USB Wkg Shanwick. FL240. 60N/19W. (IB) CSA 053 0416 USB CK-BQ wkg Gander/ARP SCROD F350 A310 OK-WAB. Iceair 632 0421 USB FQ-AE wkg Gander/ARP PRAWN F370 60N50W-62N40W. Lufthansa 437 0423 USB LM-CR wkg Gander/Selcal check A340 D-AIBC. Speedbird 116 0624 USB AM-GK wkg

Gander/Selcal check. Air France 011 0624 USB EJ-AM wkg Shanwick/ARP 51N40W F370. Singapore 25 0406 USB LM-AD wkg Gander/ARP 52N50W F390 .86. Jordanian 092 0402 USB EL-AB wkg Gander/Selcal check/ex-Air China 707 here. Speedbird 176 0404 USB BP-AK wkg Gander/ARP 50N40W F370 .85. Lufthansa 435 0405 USB LM-CS wkg Gander/ARP 53N40W F390. Shamrock 132 0408 USB DP-CR wkg Shanwick/ARP 52N30W F390. Singapore 25 0408 USB BP-GS wkg Gander/ARP YQX F350 50N50W 0425 .85. Speedbird 284 0416 USB BG-MR wkg Gander/ARP 64N60W F370. Swissair 125 0424 USB AG-BQ wkg Gander/ARP 51N40W F310. KLM 602 0506 USB KL-JP wkg Gander, ARP 65N60W F370 747-400 PH-BFN. El Al 001 0509 USB EK-CH wkg Gander, Selcal check. LTU 1529 0511 USB HJ-GQ wkg Gander/ARP 65N60W F350. Air France 063 0513 USB HP-JL wkg Gander/ARP JELCO F370 62N60W 0534. Lufthansa 421 0519 USB LM-AR wkg Shanwick/ARP 53N30W F350. KLM 692 0105 USB DK-BM wkg Gander/Selcal check. Speedbird 212 0108 USB BP-AM wkg Shanwick/ARP 49N30W F370. Speedbird 198 0110 USB EK-JQ wkg Gander/Selcal check. KLM 664 0128 USB BM-AE wkg Shanwick/ARP 60N30W F370 59N20W 0204. Uzbekistan 208 0132 USB ES-GP wkg Gander/ARP 49N50W F350 .80. Speedbird 224 0150 USB AM-CL wkg Gander/Selcal check. Lufthansa 409 0152 USB CP-BR wkg Shanwick/ARP 52N30W F350. Sabena 534 0156 USB EM-FG wkg Gander/Selcal check A310 OO-SCC. Austrian 516 0200 USB BM-HK wkg Gander/Selcal check A310 OE-LAA. Air France 033 0210 USB JK-BP wkg Gander/Selcal check. Lufthansa 435 0211 USB LM-DS wkg Gander/ARP CYMON F370 .83. Martinair 64 0220 USB BQ-CS wkg Gander, Selcal check and ARP. Speedbird 196 0222 USB EK-MQ wkg Gander/Selcal check. Lufthansa 401 0226 USB CM-LS wkg Gander/ARP 50N40W F370. Malev 091 0231 USB CP-DS wkg Gander/Selcal check. Virgin 012 0233 USB BH-GL wkg Gander/Selcal check. El Al 106 0233 USB HM-CK wkg Gander/ARP 59N60W F350 747-400 4X-ELC. Speedbird 294 0234 USB DF-HK wkg Shanwick/ARP 50N30W F330. Speedbird 184 0240 USB BD-AF wkg Gander, Selcal check. Lufthansa 475 0027 USB FM-DK wkg Gander/ARP 49N50W F370. Air Europa 118 0029 USB BP-HM wkg Gander/ARP 48N40W F350 757 EC-FFK. Finnair 104 0101 USB DE-CG wkg Gander/Selcal check. Speedbird 224 0159 USB DF-HK wkg Gander/Selcal check. Air France 033 0252 USB BM-HS wkg Gander/Selcal check. Alitalia 609 0253 USB JS-CE wkg Gander/Selcal check 767-300ER G-OITB. Swissair 125 0334 USB DE-GK wkg Gander/Selcal check 747-300 HB-IGD. Swissair 101 0337 USB DE-GJ wkg Gander/Selcal check 747-300 HB-IGC. Swissair 129 0338 USB CM-DE wkg Gander/Selcal check. Speedbird 184 0338 USB EF-GJ wkg Gander/ARP 52N40W F350. Speedbird 292 0340 USB BD-AE wkg Gander/Selcal check. Speedbird 176 0341 USB BP-CL wkg Gander/Selcal check. Shamrock 124 0400 USB JS-AP wkg Gander/Selcal check A330 EI-JFK. Alitalia 639 0402 USB JS-CG wkg Gander/Selcal check G-OITD 767-300ER. KLM 622 0204 USB DK-BG wkg Gander/ARP 52N40W F310. KLM 662 0225 USB GL-FJ wkg Gander, ARP 53N40W F350. KLM 684 0119 USB AF-GR wkg Shanwick/ARP 61N30W F370 PH-KCC MD11. Lufthansa 431 0150 USB CD-HL wkg Gander/Selcal check. Air France 023 0243 USB EK-CG wkg Gander/ARP 50N40W F370. Austrian 516 0237 USB BM-HK wkg Gander/ARP 49N40W F350 50N30W-50N20W. Martinair 812 0242 USB BJ-PR wkg Gander/ARP 53N40W F350 54N30W-54N20W. Alitalia 603 0258 USB LR-JP wkg Gander/ARP 49N40W F370. Air France 047 0233 USB EK-GJ wkg Gander/ARP 50N40W F350. Balkan 604 0211 USB HP-KM wkg Gander/ARP 49N40W F370. Air France 007 0224 USB AF-BS wkg Gander/Selcal check. Speedbird 6746 0247 USB KM-CJ wkg Gander, Selcal check. Air France 055 0331 USB EJ-AL wkg Gander/ARP 50N40W F370. LTU 1531 0308 USB HJ-DQ wkg Gander/ARP MOATT F290 58N50W-58N40W. Air-India 112 0324 USB JL-CE wkg Gander/ARP 52N40W F390 747-400. Speedbird 176 0325 USB BP-CK wkg Gander/Selcal check. Speedbird 186 0326 USB HP-CD wkg Gander/ARP 53N40W F370. Swissair 121 0328 USB AG-CQ wkg Gander/ARP 47N50W F350. Air France 081 0446 USB BM-GS wkg Gander/ARP 61N60W F370. Speedbird 284 0447 USB AK-QR wkg Gander/ARP 62N50W F390. Lufthansa 451 0449 USB EM-AL wkg Gander/ARP 62N50W F370. KLM 606 0458 USB AF-MR wkg Gander/ARP 62N60W F350. Singapore 25 0500 USB AL-BH wkg Gander/ARP 50N40W F370. Alitalia 639 0503 USB JS-CE wkg Gander/ATC req fwd 40W progress. (TO)

5652 Sabena 558 2342 USB wkg Niamey/ARP F350 est KIRMI 0015. (TO)

5658 KLM 549: 1717 USB w/posrpt to Karachi. Mogadishu 1852 USB wkg Addis Ababa. Malaysian 402: 1854 USB w/flight info to Bombay. Sanaa,YEM, 1908 USB wkg Bombay & Khartoum. Air France 255: 1955 USB w/flight info to Addis. Cathay 01: 2002 USB w/flight info to Bombay. LH 572:

2248 USB w/flight info to Tripoli. AF 493: 2249 USB w/flight info to Khartoum (JS3) Cairo, EGY: (AFR-3 MWARA) 0225 USB wkg KLM 567 reporting SMA. Khartoum,: Sudan (AFI-3 MWARA) 0236 USB wkg Air -? 227 w/posn. (RB) MAU051 2130 USB Cairo,Addis/LFPG-Mauritius DEDLI 2254 F350. BAW62 2125 USB Cairo/ARP ALEBA 2116 F350 UMINI 2131 LXR 2148. KQA104 2126 USB Khart'm/ARP SML 2333 F310. BAW68 2120 USB Khart'm/ARP EPSIX 2117 F310 AVONO 2137 KNA next. (RD3)
5685 Speedbird 62: 1847 USB w/flight info to Mogadishu (JS3)
6535 FIR: Dakar Rdo, SEN 0620 USB (SAT-1 MWARA), wkg Varig 742 w/posrep, FL370; at 0623 wkg Speedbird 247 w/posrep at FL330 fol by Air France 242. (RB) VARIG 739 0039 USB AM-FP wkg Dakar/ARP ECHED 36 F330 BIMOG ZRT .82. VARIG 765 0106 USB GM-AE wkg Dakar/Selcal check. (TO)
6556 Air China 175: 1538 USB w/Ujung @ ZAM (Zamboanga VOR) "HK-BD" B 2446 747-200 (JSM) Singapore 224 1032 USB wkg Perth/QSY w/Jakarta CTR 134.1. Indonesia 879 1035 USB wkg Perth/primary 6556/secondary 5733. Qantas 9 1036 USB wkg Perth/pls QSY Bali CTR 128.3. Speedbird 012 1040 USB wkg Perth/Selcal checked but too weak. Darwin Radio 1042 USB wkg UNID a/c. (TO)
6577 AirFoyle-22 2240 USB Wkg New York (IB) American 1035 1406 USB w/NY. American 659 1414 USB w/NY F/L 290. Royal? 192 1416 USB w/NY Clear for airport TNMC maintain F/L 330 backup on 8846. USAir 1628 1421 USB w/NY Switch to 11396. Air France 6408 0418 USB w/NY. Canadian 100 0423 USB w/NY. Air France 0425 USB w/NY F/L 370. United 979 0425 USB w/NY F/L 330 at 0441 w/NY re pp. American 9090453 USB w/NY, 909 copied something about frequencies 6649 and 8918 (Couldn't make out any more). (LB2) New York: (CAR-A MWARA) 0733 USB wkg KLM 774 reporting level 330; at 0734 United 976 reporting CRAFT 0731, FL390, est HOMA 0834, CHAMP next, fuel 41.1, temp -57, wind 090/30; at 0806 wkg United 988, CRAFT 0805 FL370, selcal CF-AL (RB) DOA262 2349 USB NY/ARP PISAX 2350 F390 GABES.To San Juan 125.1 (RD3) Air Canada 962 0337 USB DE-JK wkg NY/ARP PRUIT 36 F390. TWA 35 2211 USB AF-DE wkg NY/Selcal check. Air Europa 134 2212 USB JR-AG wkg NY/ARP F310 767 EC-276. (TO)
6586 New York: (NAT-B MWARA) 1301 USB wkg American 2040 w/posn DANER 1258 FL310, est BERGH 1327, PACOS? next. (RB) AAL56 2354 USB NY/ARP LOUIZ 2353 F290 JESSE 0007 (RD3) TWA 154 1425 USB wkg NY Radio adv if he didn't get the requested deviation he would exercise Captain's Emergency Authority to do so. AMERICAN 675 quickly chimed in that they would as well as there was a line of wx 150 miles long around 100 miles North of KOPEK that they were getting moderate turbulence from. At 1435 TWA 154 radioed in that they were descending from FL 370 to 230 & turning right due to they had just lost their right engine. NY asked them if they were declaring an emergency, 154 said not at this time...NY told them to not descend below 26000 due to an 'Air Carriers Operating Area'. An obviously upset crew couldn't understand this but NY finally got them to agree. At 1438 154 reports that they have restarted the engine and are level at 310. Asks for a pp to Maintenance at JFK. NY switches them to 6640. Air Transport 611 1212 USB DL-JK wkg NY/ARP NANCE F330 LETON-TOOMS. Continental 701 2112 USB DK-GL wkg NY/Selcal check N79746 727-200. LTU 909 2118 USB EJ-CP wkg NY/Selcal check. Cubana 485 2149 USB wkg NY/enrt YMX, -Varadero ODEAL F370. AmTran 8721 2149 USB HK-AM wkg NY/Selcal check. Air France 031 2154 USB EK-GJ wkg NY/Selcal check. Sobelair 1892 2103 USB EH-LR wkg NY/Selcal check 767-300ER OO-STF. Air Europa 148 2128 USB FM-LQ wkg NY/ARP F330 est GRANN 2150. Speedbird 294 2129 USB AM-CL wkg NY/ARP NUCAR F330. Condor 189 2218 USB DF-LQ wkg NY/ARP inbound NUCAR F330. Iberia 6170 2219 USB AG-BC wkg NY/dep MIA 2144 ETA MAD 0545. Air France 031 2224 USB FL-DK wkg NY/ARP F270 LOUIZ 2222. American 698 2229 USB LP-KQ wkg NY/Selcal ck 757 N647AM. (TO)
6604 NY Volmet 0318 USB (LB2) WSY70: New York VOLMET USB NY Aviation wx H+00 & +30 (RT2)
6622 American 110 0408 USB w/Gander. Delta 48 0409 USB w/Gander. American 132 0450 USB w/Gander F/L 370. American 48 0451 USB w/Gander F/L 330. Delta 20 0234 USB wkg Gander, posnrpt, contact Shanwick on 3476. Speedbird 192 0239 USB wkg Gander Posnrpt. Shamrock 134 0240 USB wkg Gander Posnrpt. Speed mach .81 (LB2) Delta 92 0436 USB EQ-AL wkg Gander/Selcal check. (TO)
6628 Reach 7P3 2124 USB Santa Maria direct 30n 22w 2222. Reach 7P3 2221

USB 30n 22w 2219 fl370, 25n 19w 2305, ambit (?) 2339, -> Canarias -> 126.5/119.3 no selcal. Reach Z1 2138 USB Santa Maria clearance: comut (??) - 38n 20w - 39n 30w - 39n 40w - 38n 50w - 38n 60w - flann (??) fl350 mach .83 (BH) KLM 772 wkg NY, 0341 USB FL/310 posnrpt. -38 Temp. Basa? 7710 0345 USB w/NY Selcal CK-BD Pos. Rpt. FL/330 -40 Temp Lufthansa 536 0348 USB w/NY, 32N 50W FL/350. Air France 551 0352 USB w/Santa Maria, Posnrpt. switch to 5598 (LB2) Viasa 726 0558 USB CK-DH wkg Santa Maria/ARP 25N40W F350. Viasa 3732 0603 USB CK-BD wkg SM/ARP 25N40W F330. Air Portugal 198 2147 USB wkg SM/ARP F330 DIRMA 2225. Air Portugal 199 2150 USB wkg SM/ARP 38N25W F350 QSY SM CTR 127.9. N9276J 2307 USB wkg SM/ARP 3022N30W 2307 F090 27N2125W 0100 24N2025W next. Reg. repeated three times. Canarias Radio 2308 USB wkg Wkg Santa Maria re: N9276J. Air France 531 2312 USB EJ-BM wkg SM/ARP 37N40W F330. (TO)

6637 Amerijet 924: 0450 USB w/Miami 13m out of Milwaukee for Dayton "HK-DL" N395AJ 727-200F. Polar 9506: 0240 USB w/Miami abeam Lima "GK-DF" N853FT 747-100F. Air Mike 903C: 0540 USB w/Houston 22-50N/ 177-54E enrt Hono-Guam "GH-AC" N12064 DC10-30 good ol' Houston boys just about fell out of their rocking chairs when they snagged this one! Connie 707: 0624 USB w/Miami over Northern Chile for LAX N707CK 747-200F. Connie 809: 0409 USB w/Miami over Venezuela N809CK DC8-55F. (JSM) American 2189 0033 USB wkg Houston Radio QSY 10075. Cedar Rapids 0220 USB clg Connie 840 no joy. Gulf Stream XAMIC 0206 USB wkg Houston Radio qsy 10075. (KW2) Rich 230 0458 USB wkg Miami LDOC/400 mis. W of SFO req pp to Ops. Aerolineas 494 0421 USB LM-AB wkg Miami LDOC/Dept rpt in SP, weak copy. Big A 703 0424 USB KM-CL wkg Miami LDOC/Selcal check just N of CAE. Polar 9504 0429 USB GK-DF wkg Miami LDOC/dept. Manaus 0425 to MIA. Amerijet 723 0438 USB HK-DJ wkg Miami LDOC/Selcal check. Fine Air 508 0443 USB JK-DF wkg Miami LDOC/Selcal check. Transcolombia 430 0500 USB JK-LM wkg Miami/dept BOG 0405/30 ETA MIA 0740. Connie 102 0521 USB wkg Miami/pp to Connie Ops est AR 0520 dest. MIA, Miami METAR read. Connie 202 0539 USB wkg Miami/dept BOG 0445/0500 ETA MIA 0802. Air N.Zea Disp 0520 USB wkg AR1880: note volcano on left-hand side inbound F200+/advise of any volcanic activity on normal route out Rotorua on VHF 131.9 when in range. (TO)

6640 CHANNEL AIR 731 0115 USB NY pp w/dispatch. One flight attendant is intoxicated. Dispatch instructed them to keep her away from passengers & restrain her if she got unruly. She was asleep at that time. USAIR 14 0125 USB Selcal check w/ NY. BF-KP (CH) United 979 reporting what sounded like problems on plane. 979 terminated the patch at 4:46. (LB2) Navy AT450: 0515 USB wkg New York Arinc w/pp to "WO" (Watch Officer) adv is RTB at this time & passes ETA, a/c had been deployed re TWA Flt 800 crash. 4xx Navy nose numbers can be either SH-3G/H's or F/A-18's, suspect this was the helo, but "AT"? (RB) TWA 154 1444 USB re pp to Maintenance at JFK...Captain gets on & tells them that they had 5 or 6 engine stalls after going through moderate turbulence. Engine was restarted now & everyone agreed that they would continue on to Santo Domingo. AA 675 then made a patch to their ops on 6640 also telling them that they had exercised Captains Emergency Authority to deviate 40 miles west of their course. (TB) Delta 70 2252 USB EQ-AF wkg NY ARINC/Selcal check. United 906 2254 USB AQ-BJ wkg NY ARINC/Selcal check on the ramp EWR. American 24 2255 USB JK-EF wkg NY ARINC/Selcal check on the ramp at ORD. United 928 2258 USB AG-ER wkg NY ARINC/Selcal check airborne ORD-LHR. (TO)

6643 Corsair 926 0411 USB wkg Berne LDOC/Pp to Flight Ops-ETA ORY. Korean Air 916 2300 USB KR-GP wkg Berne LDOC/F330 dept rpt from FCO. (TO)

6649 LAN Chile 169 0353 USB AB-HR wkg Lima and Panama/ARP F370 767 CC-CEU. Argentina 1382 0358 USB AD-FP wkg Panama/ARP GELIS F350. (TO)

6673 San Francisco: (CEP-5 MWARA) 0144 USB wkg unid flt 933 w/ATC advisory, stand-by for higher. (RB)

6676 Sydney Volmet: AUS (SEA-VOL) 0604 USB w/aviation wx. (RB)

8825 Santa Maria: AZR, (NAT-E MWARA) 0032 USB wkg Liberte 852 w/posrep CRAFT 0031 FL350, est 26N/30W 0145, selcal ck AL-HJ (DC-10 reg F-GPVB). New York: (NAT-E MWARA) 0033 USB wkg Britania 170B w/0030 posrep, FL370, est 18N/54W 0059, selcal ck CD-JM (767 reg. G-BYAA); at 0044 wkg Corsair 926 w/selcal ck CE-FL (DC10-30 reg F-GSUN); at 0100 wkg Air France 521 w/posrep 18N/60W 0058 FL310, est 22N/50W. New York: (NAT-E MWARA 0034 USB ck KM-BF (747 reg F-BTDH); at 0102

wkg Speedbird 256 w/posrep 18N/60W 0059 FL360, selcal ck BD-FL (747-200 reg G-BDXF); at 0106 wkg Condor 131 w/posrep, FL330, est 23N, 63W 0120, selcal ck CM-PR (767 reg D-ABUC). New York: 2325 USB & New York Oceanic wkg Frenchline 443 re lack of oceanic flight plan. At 2333 wkg Avianca 011 w/posrep 33N/40W 2331 330, est 27N/50W 0046, 21N/57W next, passes wx & fuel, selcal GK-DF (767 N986AN); at 2344 wkg N68AJ (Beech C90E) on the ground in Nashville, TN, adv try 6640 or 8933. (RB) Liberte 813 2156 USB CH-LM wkg NY/ARP 18N60W f330. Air Europa 156 2157 USB BP-HM wkg NY/ARP 1851N45W F370. Hapag-Lloyd 656 2233 USB HL-AS wkg NY/ARP 32N60W F370. Air France 594 2248 USB KM-BF wkg NY/ARP GRANN req F330 .84 for crossing. Iberia 6302 2304 USB DF-LM wkg NY/ARP 21N60W F280 req F330/350. (TO)

8828 Hong Kong 0807 USB w/Volmet weather, also 0810 Tokyo also Volmet (AW)

8831 CIE 010 1107 USB wkg Gander/ARP 55N30W F350 a/c of Czech Gov't Flying Service, neg. selcal. Speedbird 117 1119 USB BP-AK wkg Gander/ARP 57N40W F370. Lufthansa 8208 1125 USB FL-BK wkg Gander/ARP 59N50W F310 747F D-ABYY. (TO)

8842 Hong Kong 1030 USB wkg Qantas 347,Posrep (AW)

8846 American 661 1443 USB w/NY Contact San Juan now on 134.3. Navy LF16M 1457 USB w/NY Unable to hear Navy but NY said they had them at 5. (a P-3C from VP-11 "Pegasus" NAS Brunswick, Me -LOGS) USAir 1968 1457 USB w/NY F/L 330. American 648 1459 USB w/NY Selcal AM-HQ this will be secondary. American 1470 1427 USB NY radio, contact Miami. Zurich Air 21 1432 USB NY radio, Selcal BQ-GK. USAir 1441 1435 USB NY radio, contact Miami 135.2. Martin Air 1063 1444 USB w/NY Posnrpt. King 64?? 1447 USB NY, F/L 200 (USAF HC-130 -LOGS) American 1445 1448 USB NY, contact San Juan 134.3. Continental 191 1449 USB NY, Selcal DK-JL. DHL 153 1449 USB NY selcal check. Cubana 1451 USB NY, F/L 350 unable to receive selcal switch to 5550. Delta 211 1438 USB HQ-CD wkg NY/Selcal check at F370. VR-BJD 1446 USB CK-GM wkg NY/Selcal check. Carnival 1701 1448 USB AS-BL wkg NY/ARP ELTIN 48 F350. N475QS 1623 USB LS-FG wkg NY/ARP direct GRATX F450. Pacific 310 0550 USB wkg Nadi ACC/@ BULLO? QSY 11384/HNL. Cubana 1403 1215 USB wkg NY/ARP JESSE F170 a/c type Il-18. American 699 1237 USB BP-FK wkg NY/ARP F277 est GABES 1321 A523 to SJU. Pacific 200 0526 USB wkg Nadi ACC/enrt Nadi-Tonga 737-500 LI cleared to NONOK? no known tfc and in VHF QSY w/Tonga. USAir 1459 1928 USB HP-FL wkg NY/est BACUS 2016 BDA-CLT 737-400. Metman 5 1935 USB wkg NY/clearance to WAL F210. American 660 1939 USB LP-KQ wkg NY/Selcal check. American 335 1959 USB MP-DQ wkg NY/ARP BROOM F390 JAINS-OLDEY. Speedbird 237 2024 USB AM-GJ wkg NY/Selcal check 747-200 G-BDXD. Continental 194 2036 USB DK-HL wkg NY/ARP F310 off BDA 2008 TARGA 2037. Lufthansa 463 2117 USB CG-AD wkg NY/Selcal check MIA-FRA. LTU 441 2119 USB HJ-EQ wkg NY/Selcal check QSY to 6577. N488JT 1826 USB wkg NY/ARP TARGA F390 FLANN 1856 neg selcal. N560EA 1827 USB wkg NY/for radio check fair signal here. Speedbird 293 1848 USB CJ-DM wkg NY/ARP PRISS F350. USAir 1459 1907 USB PQ-FL wkg NY/ARP GABES F350 enrt BDA-CLT. Virgin 015 1925 USB HR-PQ wkg NY/ARP PRISS F350. Delta 109 1937 USB JM-DL wkg NY/Selcal check QSY 129.9 for comp. msg. American 660 1945 USB JM-PR wkg NY/ARP GRANN F390. AmTran 8236 1948 USB AH-BG wkg NY/arrived MDPP 1933/45 fob 29.9. American 783 2026 USB GH-BE wkg NY/enrt PHL-SJU B24-CHAMP-A300. Continental 194 2050 USB DK-JM wkg NY/ARP TARGA F310 .80. USAir 1970 2053 USB HR-GQ wkg NY/ARP F310 est KRAFT 2110. Lauda Italy 1993 2055 USB DH-BC wkg NY/ARP DEENO F370. Continental 701 2057 USB CG-AJ wkg NY/Selcal check N59792 727-200. (TO)

8855 Argentina 1300 0433 USB wkg Maiquetia/ARP estimating o/h MAN 0500. Itapemirim 314 0059 USB wkg Manaus/ARP RONIL F310 a/c type 727F. REACH JHS3 0242 USB GK-FH wkg Recife/ARP 054N35W 39 F330. American 972 0243 USB DL-KM wkg Manaus/ARP XINGU F310 ATF 0258 NANDA. United 976 0246 USB AG-BS wkg Manaus/ARP NENET F330 REMIL 0303 Aval. Air France 6844 0253 USB wkg Clg Maiquetia here no joy. Air France 241 0254 USB wkg Recife/ARP NANIK F330 SAGRO 0332 KENOX. (TO)

8861 AFL354 2050 USB Sal/Req.wx for SAL ETA 2253 ONOBI 2115 F330 (RD3) Air France 6807 2314 USB EJ-BF wkg Dakar/ARP KODOS F370 B747F F-BPVV. Springbok 9201 0019 USB wkg Roberts/ARP est DEMAR 0046 reg. ZS-SAX. Air France 215 0022 USB AF-CR wkg Recife/ARP NANIK F370. (TO)

8864 Reach 800 2009 USB Shanwick cleared to Lajes via: sever (??) - 45n 20w - 40n 25w - alano fl370 mach .79. Selcal LREJ (a/c type?) ->

5598/8906 (BH) Roy-452: 1331 USB Wkg Shanwick. FL290. Air Club-413: 1207 USB Wkg Shanwick Aero. FL260. UPSET-66: 1212 USB Wkg Shanwick Aero. Olive-64 1733 USB Wkg Gander w/ radio check. Steel-82 1719 USB Wkg Gander FL350 53N/30W (IB)

8867 Qantas 7554 0609 USB ->5643. Polar Tiger 81 0623 USB climb to fl330, fl350 not available (BH) Air Cal 414: 0546 USB w/Nandi "FQ-BD" 737-300 still on the climb out to 370 but from where? destination Auckland; estimates for VERAH (?) & LIKAT(?).my new Pacific maps on the way!! (JSM) Pascua Radio 0504 USB attempting QSY w/LAN Chile 5133 no joy. LAN Chile 5133 0506 USB AB-PS wkg Tahiti/ARP on UG224 F350-390 block alt. Polar 281 0517 USB wkg HNL/ARP F290. New Zealand 10 0535 USB wkg HNL/ARP F370. Qantas 11 0536 USB QR-AE wkg Nadi/ARP F290 est 25S168W at 0609. Qantas 25 0536 USB DK-FM wkg HNL/ARP NEELS? 0535 NUMBY? 0619 F370. New Zealand 135 0539 USB wkg Auckland/ARP EGMEE? F390 .80. Qantas 7554 0540 USB wkg Brisbane/ARP F310 relay to Emery Ops. Aussie 421 0545 USB wkg Auckland/ARP F350 15 mis. L of track. Qantas 142 0558 USB wkg Brisbane/ARP MEROV F410 Lord Howe 0637. New Zealand 54 0441 USB wkg AKL/ARP F330 .84 req F370. Freedom 712 0457 USB wkg AKL/Confirm freq for AKL CTR: 128.1. Ansett 875 0500 USB wkg AKL/122 DME from Norfolk Island VOR at F250, negative selcal listed as BAe 146. Ansett 870 0503 USB wkg Nadi/at F240, cleared to F310. VH-SVN 0507 USB wkg BNE/receiving Lord Howe actual wx rpt PA31 of Kentialink Airlines. Ansett 875 0509 USB wkg AKL/leaving F250 for descent into Norfolk. Singapore 286 0513 USB wkg BNE/ARP POVOP F350 squawk 2355 and QSY BNE CTR. United 816 0514 USB AS-EF wkg Nadi/ARP 25S167W F330. Ansett 870 0518 USB wkg BNE/ARP VELDI F310. New Zealand 79 0519 USB wkg BNE/req F370 and QSY Moresby CTR. Qantas 91 0521 USB DK-EJ wkg BNE/Selcal check. Singapore 7298 0521 USB EQ-DR wkg BNE, Selcal check. Pacific 913 0530 USB wkg Nadi/ARP DUBEV F330 NIVIT next. Qantas 3 0531 USB DK-EM wkg HNL/ARP F370 DUPPY?. Qantas 26 0531 USB EG-FK wkg HNL/ARP F350. VH-SVN 0536 USB wkg BNE/reporting ETA Lord Howe 51. Air Van 31 0544 USB EP-DR wkg BNE/ARP F310 737-400 VH-TJI. Qantas 11 0548 USB wkg AKL/ARP 33S165E? F370 .84 33S170W 0625. Argentina 1880 0434 USB wkg AKL/ARP 170W F390 175W 0510 CI next. Qantas 142 0502 USB wkg AKL/ARP ISROB F390 AKMEV 33 .85. LAN Chile 5133 0503 USB wkg Pascua/ARP F370 pos. unreadable in SP. Qantas 25 0511 USB EG-FK wkg HNL/ARP NIXAM F370 .85. Argentina 1880 0515 USB wkg AKL/ARP #2 175W F390 CI 0534 told to QSY Air New Zealand Dispatch on 6637 now. New Zealand 10 0526 USB wkg HNL/ARP DOGGY 25 F370 .80. Qantas 7554 0536 USB wkg BNE/ARP F310 squawk 2333 fuel 92.2. LAN Chile 5133 0538 USB wkg Tahiti/ARP #2 Mataveri to Tahiti F370 now maintaining block alt F350-F390 est SAPOK 0623. Qantas 3 0542 USB DL-BM wkg HNL/ARP NUMBY 40 F370 SAMME 0641. Polar Tiger 81 0558 USB wkg BNE/ARP then at 0622 req's F350. Qantas 142 0602 USB LQ-CE wkg BNE/ARP est Lord Howe 0630 F350 .85. LAN Chile 5133 0626 USB wkg Tahiti/ARP #3 est SUNTA 0708 F350-390. (TO)

8879 Lufthansa 436 1115 USB JR-CK wkg Gander/ARP 61N30W F350 A340 D-AIGL. (TO)

8891 ASCOT 2891: 1409 USB w/Baffin @ 64N/90W "CF-AB" XV103 VC-10 (JSM)

8894 AZW7260010 USB Niamey/IKTAV/0007 DJA 0021 TARAT 0034 NAGAR 0049 F350. B767. AZA847 0005 USB Algiers,Niamey/ARP EREBO 2359 F370 TMS 0029 HOGAR Req. selcal chk/JSCG GOITF B767. KLM586 0005 USB Algiers/ARP ERKEL 2359 F310r350 MELOG 0017 ATAFA-0035 BOD 0051. AIN854 0010 USB Algiers/MELOG-ERKEL 0024 EDAGO next. AZA672 0007 USB Algiers/Faint rx. F310 req.selcal EKLM IDEMG B747. BAW57 0009 USB Algiers/ARP IKTAV 0009 F330 ENDOK 0021 DIR 0040. SAA221 0013 USB Algiers/ARP EREBO 0012 F330 TMS 0054. SWR265 0032 USB Algiers/ARP F330 PSL 0121 sel/AGEQ HBIWK MD11. SAB542 0035 USB Niamey/Lagos-Brussels via TMS F330 BOD 0046 (RD3) DSR 407 2124 USB wkg Niamey/ARP to LAG AMTES 2117 F350. Springbok 223 0339 USB wkg Algiers/cleared to F390 report reaching. KLM 586 0010 USB AF-HR wkg Algiers/ARP Kano-AMS F350 ERKEL 0017. Air Gabon 610 0011 USB wkg Algiers/ARP ERKEL 0010 F290. Zimbabwe 726 0012 USB wkg Algiers/ARP IKTAV 0012 F350 DJA 0026. Argentina 1163 0015 USB wkg Algiers/ARP TIN 2343 F280 UDELA 0029. Air France 7235 2347 USB GQ-BM wkg Algiers/ARP est NSL at 0035 A310 F-GEMN. DSR 401 0033 USB CF-GM wkg Niamey/ARP LGW-Kano F370 ERKEL 35 ETA Kano 0148 B707 reg. 5N-MXX. Just a few minutes later requested F290 due to cabin pressurization problems! (TO)

8903 EGO-301: 2106 USB Wkg Kinshasa Aero. FL330. (IB) MEA9664 2124 USB Ndjamena/ARP ARBEG 2122 F350 ETSAM 2137 FL 2204 KELOK 2207 dep.BEIRUT 1752 ETA ABIDJAN 0045 a/c B707 reg.OD-AHF sel/BGFL. MEA664 2127 USB Ndjamena/ARP/ARBEG/2126 F310-ETSAM 2141. SVA6879 2135 USB Ndjamena, JEDDAH-NDJAMENA via GNA 2227 ARBEG 2237 F310 ETSAM 2253 KIRBO 2310 FL 2324 req.NDJ wx.Fl/t also req.info on VIP Flt,reply was that a/c was still on the ground at Ndjamena!!? KLM594 2135 USB Ndjamena/FAJS-EHAM via BT 2134 F350 UMOSA 2203 B747 reg'n PH-BFR sel/CGKS. (RD3) World 501 0113 USB GH-BS wkg Brazza/ARP Brazzaville FIR 0109 F350 Meridian 0159 ETA Dakar 0505. SHB 901 0257 USB wkg Brazza/ARP Ostende-Kinshasa F330 est BT 0511 reg. EL-ALQ. Saudia 6876 0258 USB wkg Clg N'Djamena here no joy. Speedbird 056 2317 USB wkg NDJ/giving reg. G-BNLR 747-400. Sabena 549 2320 USB wkg NDJ/ARP F330 DELIS 25 ENBUT next. Cameroun 072 2322 USB wkg Kano/ARP Douala-LGW dept. 2312 at F180. Lufthansa 575 2327 USB wkg NDJ/ARP ILDOR F350 FLU at 2352. Springbok 234 2327 USB wkg Brazza/ARP CF 27 VONTI 47 BT next. Zimbabwe 724 2335 USB wkg Brazza/ARP MPK 33 F350 BOSSA 2351 RULDO. Swissair 287 2335 USB wkg NDJ/ARP FLU 2333 F350 ILDOR. KLM 594 2345 USB wkg Niamey/Arp IKTAV 45 F390 DJA at 2358. KLM 593 0015 USB wkg Brazza/ARP TJN F370 MOTET KOGAN. (TO)

8906 Dominicana-362 1703 USB Wkg Shanwick 45N/10W (IB) Elite 506 1020 USB BS-AF wkg NY/Selcal check. AmTran 8033 2046 USB FK-BC wkg NY/Selcal check. Cargolux 776 2049 USB CS-KM wkg NY/ARP 40N50W F350 dest MIA. Iberia 6151 2054 USB DJ-RS wkg NY/ARP 37N50W F370. Delta 32 2123 USB FL-AQ wkg NY/Selcal check on the ramp at ATL. Air Europe 767 0155 USB KR-JM wkg NY/Selcal check. Air Europe 724 1957 USB CS-HQ wkg NY, Selcal check. Delta 146 2041 USB FL-AQ wkg NY/Selcal check. Iberia 6143 2034 USB DJ-AR wkg NY/Sellcal check. REACH 17 2110 USB BL-GM wkg SM/req oceanic clr at F310 .80. Lufthansa 463 2125 USB CG-AE wkg NY/ARP JAINS 2122 F330. Martinair 606 2213 USB BQ-EG wkg NY/ARP 32N60W F330. LTU 401 2305 USB EJ-CP wkg NY/Selcal check QSY to 6586 primary. (TO)

8921 Qantas 25: 1140USB wkg unid station SECAL "DQ-FM". (KW2)

8924 424 2340 USB wkg unid re coordination of medical requirements upon landing (2 NY area codes/numbers given). (KW2)

8930 KLM 981 0911 USB Stockholm (N506MC B-747 Atlas, on KLM flight) relay to ops at JFK: departed Amsterdam 0838/55 eta Dubai 1520, take-off fuel 101.4, fuel uplift 28992 US gallons, payload 85581, selcal AGEL. Cargolux GCV 2214 USB Stockholm (B747 Cargolux) posn Calcutta India -> 11345 -> 5541 (unreadable for me), pp ops (BH) NWA45 1045 USB Stockholm/Radio & selcal chk/FMGL N211NW DC10 (RD3) World MAW 0410 USB EG-AB wkg Stockholm LDOC/dept KEWR dest. EGAA. Tower 31 0414 USB wkg Stockholm LDOC/accepts PRD @ 0415. Laker 502 0445 USB wkg Stockholm LDOC/o/h BABAN 0443 pp to Ops. GBM 505 2131 USB wkg Stockholm LDOC/posn Mediterranean, req freq for Tripoli Airport!!!. Tower 302 2237 USB CF-GK wkg Stockholm LDOC/ARP POLDA 2222 F330. Air Europa GEU 2312 USB wkg Stockholm/B737-375 EC-GEU w/pp to Ops. Futura GHF 2343 USB wkg Stockholm/pp to Comp. Ops ment. of Belfast. Sabena 527 2350 USB wkg Stockholm/ARP GFLL-BRU at AR F330 ETA 0400. Air France 179 2353 USB wkg Stockholm/pp to MUnit CDG: ETA 0545 prob w/acceleration in climb & pax connex. World 1209 2357 USB wkg Stockholm/Rerelease msg to KSEA. (TO)

8933 AN010: 1143USB wkg NY Radio pp request. Cedar Rapids 1054 USB clg United 993 no joy. United 982: 0149 USB wkg Cedar Rapids advised SECAL is "FQ-CM" --secondary freq 6637. (KW2) Cedar Rapids: LDOC, Ia (NA-CC-LDOC) 0021 USB wkg United 990 w/selcal ck AG-CS (767 N644UA); at 0302 wkg United 997 flying Miami to Santiago w/selcal ck AG-ES (767 N648UA). (RB) Richair 103 2220 USB HR-MQ wkg NY ARINC/Selcal check. (TO)

8942 UPS 6814 1410 USB w/Singapore @ "MEVAS" (03-55.7N/105-59.8E) "CJ-BQ" N810UP DC8-73CF. UPS 6814 1547 USB w/Singapore @ "MEVAS" "CJ-DQ" N811UP DC8-73F. (JSM)

10027 Praha LDOC 2047 USB wkg UNID CSA flt in Czech w/ID. (TO)

10033 Fine Air 30 2143 USB w/Miami 4 mins out of Santo Domingo for Miami N30UA DC8-61. Connie 61M: 2347 USB w/Miami on the ground at San Salvador dep't for Miami at 2400Z N6161M DC8-55F. Connie 801: 0017 USB w/Miami just dep't Managua for Miami N801CK DC8-55F (JSM) Miami: Connie Op's LDOC, Miami, FL 0238 USB wkg unid flt 943 w/selcal

ck HK-DL (unk). (RB)
10051 WSY70: New York Volmet 1505 USB Aviation wx H+0030. (RT2)
10057 San Francisco: (CEP-5 MWARA) 2205 USB wkg Northwest 72 after QSY from lower frequency w/selcal ck. (RB)
10072 Sydney skycom 0545 USB wkg "Echo 143" enrt Norfolk Island (AW)
10075 American 2189 0034 USB wkg Houston Radio Selcal ck ??AF. Gulf Stream XAMIC 0207 USB wkg Houston Radio enrt from San Antonio to Gander. Houston Radio 1456 USB wkg unid a/c flying over South Dakota -- radio advised to contact them on 13330. (KW2) AmTran 8206 1917 USB wkg Houston LDOC/pp to AmTran Maintenance. (TO)
10790 Stockholm Radio 0924 USB wkg. REACH-EHF6, circling ovhd. Ramstein due to denied permission to land at Ramstein at this time on Sundays. (ANEU)
11309 New York: (NAT-E MWARA) 1642 USB wkg Frenchline 427 w/ATC clearance to TFFF. (RB)
11330 USAir 1441 1401 USB NY radio, keep trying Miami on 2989 and try 132.3 from 200 miles out. Otis Air 111406 USB NY radio, contact Miami on 132.3. (LB2) REACH 401 1506 USB DK-FH wkg NY/ARP F330 JAINS est 1508. Air Europe 738 1850 USB KR-JM wkg NY/ARP est RIGNY 1916 GRATX 1946. American 63 1917 USB JK-RS wkg NY/ARP PRISS F370. USAir 1041 1919 USB HR-JQ wkg NY/selcal check St. Croix-KBWI. USAir 791 2045 USB HR-GS wkg NY/ARP BROOM F310 JAINS-OLDEY. (TO)
11342 American 709 1214 USB wkg NY ARINC/pp to Ft. Worth Dispatch re ATC clearances in Miami FIR. American 953 1218 USB MP-QS wkg NY ARINC, Selcal check. (TO)
11345 OB-LDH 1535 USB Stockholm no joy. Any clues on this one? OB = Peru prefix, but the rest should be figures than... Transvia VG 2133 USB Stockholm (PH-HVG B737 Transavia) pp ops: captain got sick after lunch in Luxembourg, but is still able to work. Req spare captain at Leipzig tomorrow in case he gets sicker. Eta Leipzig 2223. Air Malta 601 0929 USB Stockholm pp ops. Delta 31 0930 USB Stockholm (B767 N173DN) selcal EQAD (BH) Stockholm LDOC: (EU-LDOC) 2321 USB wkg AEL (Air Europe Italy) 747 w/terminal forecasts for St Johns/Gander, CAN; msg to company op's re ETA Milan w/230 pax. (RB) AFR7202 1047 USB Stockholm/Radio & selcal chk/EKBC FGEME A310. BRA747 1051 USB Stockholm/Req pp to Ops. BSK3033 1053 USB Stockholm/Msg to Ops, Miami; dep.FRF 1025/48 ETA TZL 1205 Fuel 43.0 146pax.sel/JKAL? AZA609 1054 USB Stockholm/ETA LIRF 1230 sel/JSCG GOITF B767 (RD3)
11396 National 888 0728 USB wkg Bali, Posrep and Selcal. Later at 0729 Reach 40620,and at 0730 Qantas 70 also wkd Bali (AW) Navy LL62: 2251 USB Wkg New York. (NAS Jacksonville). (IB) USAir 1628 1421 USB w/NY Clearance to San Juan. USAir 1535 1422 USB w/NY PosnRep contact NY 128.5. American 655 1424 USB w/NY F/L 370 over Homer. American 1425 1324 USB w/NY. American 691 1425 USB w/NY Selcal CM-AP. Arabic or Aruba?? 757 1427 USB w/NY. (Aruba -LOGS) USAir 1628 1428 USB w/NY F/L 330. USAir 262 1430 USB w/NY. American 667 1432 USB w/NY Selcal MP-KQ American 1385 1432 USB w/NY. Posnrep. American 425 1438 USB w/NY Climb to F/L 210 by time 1450. American 1400 1441 USB w/NY Selcal MP-BQ contact ?? on 129.9 (LB2) USAir 1460 1603 USB HR-JK wkg NY/Selcal check. Varig 1095 1627 USB GM-AB wkg NY/ARP 2330N64W F330. American 2009 1628 USB BE-DK wkg NY/Selcal check. Speedbird 010 1132 USB wkg Perth/ARP WENER F410 NONAX 1147. Indonesia 948 1148 USB wkg Bali/ARP F290 est FK 1205 QSY Bali App CTR. TWA 41 2007 USB CH-BF wkg NY/Selcal check. (TO)
13270 New York Volmet (NAT-VOL) 2235 USB w/terminal forecasts, ID. (RB)
13285 Transat 277 1342 USB wkg Rainbow R. LDOC/pp to Ops in FF. (TO)
13306 Transat 277 1322 USB EK-JM wkg NY/ARP 42N40W F270 .77. KLM 745 1324 USB KL-MP wkg NY/ARP 42N40W F310. YANKEE 91 1325 USB wkg NY/ARP 39N50W F220 3830N55W-38N60W. LTU 910 1328 USB HJ-EQ wkg NY/ARP 42N40W F280 & wx rpt. Air Portugal 9962 1405 USB GM-CH wkg NY/ARP 44N50W F330. Monarch 177 1405 USB JK-GH wkg NY/ARP 42N40W F280. Laker 501 1414 USB FL-CJ wkg NY/ARP 42N40W F310 fuel 107.5. American 63 1422 USB JM-DP wkg NY/ARP 41N40W F350. American 69 1438 USB JK-PS wkg NY/ARP 40N40W F330. Virgin 005 1512 USB BH-JM wkg NY/ARP 42N40W F310. Lauda 931 1947 USB JS-MQ wkg NY/ARP 40N40W F350 767-300ER OE-LAS. Aeromexico 034 2039 USB BC-QR wkg NY/ARP 42N40W F310. Tourjet 011 1841 USB FP-ER wkg NY/ARP 42N40W F310 req 32N60W as dev from clearance on NAT Track H. (TO)

13330 HELICOPTER N430Q 2143 USB calling Houston @ "60N/69W over N.E. Canada" several calls but no go. Cannot find any info on N430Q (four-three-zero-Quebec) HELP!! (JSM) Continental 57 1358 USB DL-JM wkg Eastern R. LDOC/Selcal check. Connie 708CK 1536 USB CK-DH wkg NY ARINC/relay to Ops: arrival TTPP 1545 ETA dest. 1725. Air Jamaica 50 1549 USB EH-CJ wkg Houston LDOC/Selcal check. Laker 501 1551 USB wkg NY ARINC/pp to Ops for redispatch. United 955 1218 USB wkg NY ARINC/o/h 69N60W w/pp to Dispatch re very ill pax. N105BN 1236 USB wkg Houston LDOC/Radio check on #2 xmtr. N245TT 1805 USB wkg Houston LDOC/pp to Comp Ops re Caracas. (TO)

13333 Speedbird 175 1439 USB wkg Speedbird LDOC/ETA JFK 1716. Speedbird 199 1552 USB wkg Speedbird LDOC/req Lotto numbers. Speedbird 4112 1555 USB wkg Speedbird LDOC/ETA Aberdeen given. Shamrock 107 1606 USB CK-EH wkg Speedbird LDOC/Shannon-JFK dep 1337/51 ETA 2006/11. Saudia 7738 1632 USB wkg Speedbird LDOC/ARP F410 WARNO? 1628. Caledonian 47 1905 USB wkg Speedbird LDOC/pp to Cally Ops, due to dept. delay have a large number of angry pax, may need airport police upon arr LGW. (TO)

13339 Aeromexico 402 1408 USB wkg Radiomexico LDOC/ETA for MEX, wx rpt. (TO)

13354 Speedbird 249 1450 USB w/NY Clearance for NY ATC. Dominica 262 1453 USB w/NY ATC unable to honor request due to traffic. Navy Flight LF16M 1454 USB w/NY F/L 260, switch 8846 now for comm check. Amarock? 204 1500 USB w/NY. Air Mexico 455 1505 USB w/NY ATC is wkg on request Speedbird 249 1503 USB w/NY Maintain F/L 290. Martin Air? 603 1503 USB w/NY Unable to go to F/L 390. (LB2) Iberia 6401 1319 USB EK-CJ wkg NY/ARP 40N40W F330 destination CUN. Air France 226 1326 USB JK-BP wkg NY/ARP 37N40W F330 req F350. Air Europe 750 1331 USB AE-JR wkg NY/amended lvl clrance: req BDA wx. KLM 743 1346 USB AF-ES wkg NY/Selcal check. Speedbird 255 1349 USB BD-FL wkg NY/ARP 34N40W F350. (TO)

13356 Kingston Dispatch (CAR-LDOC) 2240 USB wkg Air Jamaica 11 w/ETA to Kennedy of 0020, selcal ck KS-DH (A310, reg N839AD). (RB)

17904 Tokyo 0325 USB wkg several flights. Posreps,very busy (AW)

17940 N6513X 1833 USB wkg Houston LDOC/PP to Ops/200 mis SW of Churchill, Canada @ N5519100W. (TO)

17946 Tokyo 0330 USB wkg unid a/c. Very weak barely audible. (AW)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

52 GYA: Royal Navy,Whitehall 0800 VFT: 2ch of 75bd/70 FSK UNID System, sync, cont, ACF=0 (MC)

53 GYA: Royal Navy,Whitehall 0759 VFT: 2ch of 75bd/70 FSK UNID System, sync, cont, ACF=0 (MC)

68 Unid: 0752 UNID 100bd/70 FSK UNID System, sync, cont, ACF=0 (MC)

81 Russian Navy,??? 0809 50bd/85 36-50, tfc (MC)

82.7 MKL: Royal Air Force,Edinburgh 0814 RATT 75bd/150 crypto (CW WX keyed on high tone) (MC)

118.8 British Mil,??? 1426 RTTY 50bd/85 (1stopbit), rptd "the quick brown fox...." (MC)

120.9 Unid: 1429 UNID 75bd/85 FSK UNID System, crypto (MC)

129.1 DCF49: BMPT Bonn,D 1141 ASCII 200bd Encrypted traffic + tests. (AB)

147.3 DDH47: Hamburg Meteo,D 1253 RTTY 50bd RYRYRY (AB)

147.3 DDH47 Hamburg Meteo 1815 RTTY 50/85 wx tfc (DG)

147.3 DDH47: Hamburg Meteo,Germany 1432 RTTY 50bd/100 Weekly WX forecasts for Baltic (MC)

2064 FUB: French Navy, Paris, F 0850 RTTY 50/850 test tape w/ID, also on 8565, 12729.9 & 15969.4 khz. (JD2)

3287 CKN: Lazo, BC, CAN 0940 RTTY 75/850 w/NAWS marker, DE CKN ZKR F1 2386 4167 6248 8321 12371 16561 22200 AR (gave address as Lazo). (FH)

3628.7 RFFP: MOD Paris 2030 ARQ-M2 200/400 5 LG'S (DG)

3655 RVZ73: Archangel Meteo, RUS 0315 RTTY 50/1000 w/CQ de RDH77/RVZ73 & RY's, //7760 khz. (JD2)

3894.6 Unid: 2122 200bd/200 PacTOR UNID sub-mode (MC)

3950 ETS: Asmara Air ERI 2310 RTTY 50/850 clg ETD3 (ML2)

4009.5 NNN0BVM: Navy MARS NCS 2324 FEC 1N5B Traffic Net sending 'Ships Active List', also sent same in 75/170 RTTY. (RB)
4020.5 British Mil,??? 2024 Piccolo-12, crypto (MC)
4173 SHIP "HAMBURG SENATOR" 0704 ARQ Traffic in EE via Portishead re SATCOM-A equipment problems (DW)
4176 LNVP3: Song of Norway 0300 ARQ w/amver tfc 4917n 12307w. 32407 lnvp3. (WT)
4178.5 KIOH: Golden Gate 0530 ARQ vsl status report. (AB2)
ATPN: M/V Hargobind 0445 ARQ w/tlx, login 23590 hrgd. UDSX: M/V Vera Maretskaya 0155 ARQ w/tlx, pilot on board, sfo login 54979 udsx. (WT)
4211 GKE2: PORTISHEAD RADIO 0700 FEC Tfc list and svc re using GKE1 & GKY1 when possible & report any problems. Return to Marker "GKE2" & tuning burst. At 1750, long period of betas then "very sorry sir got 10 jobs to do qsj Spain and Russia 4.07cc 2.93ll above in gold francs. (DW)
4211.5 USU: MARIUPOL RADIO 1800 ARQ w/CW Marker "USU" & tuning burst. (DW)
LGW2: ROGALAND R. 1758 ARQ w/CW Marker "LGB tlx" & tuning burst. (DW)
4212.5 FFT21: ST Lys Rdo 1803 FEC Gale warning ? in FF. QRJ tfc list. Return to Marker "FFT" & tuning burst. Worked unid ship giving qru. (DW)
4213 LGW3: ROGALAND RDO 1808 ARQ w/CW Marker "LGB tlx" & tuning burst.(DW)
4213.5 VCS: CCG HALIFAX 0630 FEC Tfc list & wx (source NWS Washington & Maritimes Wx Central,Environment Canada). (DW)
4214.5 SAB209: GOETEBORG RADIO 1812 ARQ Maritex "erererer" string. Selcal CBBF. (DW)
4215.5 HEC24: BERN RADIO 1815 ARQ w/CW Marker "HEC" & tuning burst. (DW)
4215.5 OXZ: LYNGBY RADIO 1817 ARQ w/CW Marker "OXZ" & tuning burst. (DW)
4216 A7D: DOHA RADIO 1924 ARQ w/CW Marker "de A7D tlx 4690". 4690 is stn nr selcal MCSV (DW)
4216.5 SAB209: GOETEBORG RADIO 2111 ARQ Maritex "erererer" string. Selcal KMZZ.(DW)
4217 PCH26: SCHEVENINGEN R. 0651 ARQ w/CW Marker "PCH" & tuning burst.(DW)
4218 OST: OOSTENDE RADIO 0750 ARQ Ship being given tor commands & charges. (DW)
4218.5 SAB218: GOETEBORG RADIO 0655 ARQ w/CW mkr "SAB" & tuning burst. (DW)
SAB218: Goeteborg Radio 0100 ARQ now in ARQ along w/YLQ, Riga...a mess of QRM. (FH)
4220.3 GYU: RN GIBRALTAR 1936 VFT on USB (DW)
4220.6 GYU: RN GIBRALTAR 1939 RTTY 75/200 Chan 1 in vft. CARB "08a 12a GYU". (DW)
4222.8 GYU: RN GIBRALTAR 1943 RTTY 75/850 4222.86. Chan 4 in vft. 75bd 850hz. No app acf. Online encrypted. (DW)
4227 IGJ42: IN AUGUSTA 1950 RTTY 100/850 Marker "IGJ41/IGJ42/IGJ43/". (DW)
4235.2 Unid: RN 2150 RTTY 100/200 ratt bdcst (DG)
4267.5 CKN: Lazo, BC, CAN 0730 RTTY 75/850 w/meteo wx in abbrev EE. (FH)
4295 HWN: French Navy, Paris-Houilles, F 0330 RTTY 75/850 (back on original frequency). (JD2)
4322 MGJ: RN Faslane 1701 RTTY 75/350 availability msgs (DG)
4343 WLO: Mobile Radio, Al 1335 FEC 100/170 wx/ships tfc. (RT2)
4495 Unid 0030 ARQ-E 72/400 idling, sounds as tho might be //7970, off at 0042 but 7970 still on . (FH)
4583 DDK2: Hamburg Meteo, Quick 0014 RTTY Born, G 50/425 w/AAXX meteo reports. (RB)
4601.5 0A: Irish Navy, Dublin,IRE 0040 ARQ in receive mode & off w/DE 0A. At 0142, "98" w/DE 98 RE 232200 after sending selcall XVVX to PT32. (RB)
4610 GFA22: Bracknell Meteo, G 0015 FAX 120/576 w/fair wefax. (RB)
4684.7 RFFXIC: 2350 ARQ-E 96/400 FF Bouar CAF w/svce msg to RFFXI (ML2)
4755.5 British Mil,??? 2022 Piccolo-12, crypto (MC)
4843 Unid: 2039 ARQ-E 72/400 idling (DG) (c.i. seen is "UAF" -LOGS)
4855 NHF: 0300 FAX USAF Roosevelt Roads (MS5) (NHF is the USN at Roosevelt Roads, no known AF facility there & it's uncertain NHF is sending this data or if it's another station -LOGS)
4905 BSB32: Lanzhou Meteo CHN 1200 RTTY 75/425 w/RY & synoptic wx //6985 1200 (ML2)
5008.5 RETYVC***: Guardia Civil, Castellon 1955 ARQ 100bd/400 MSGs in SS. (MC)
5265.2 DER: MOI Bonn 1159 ARQ-E 72/85 CdeV (DG) (not a Controle de Voie, which is used strictly by the French, but rather a QVL which is used by the Germans. Both have the same use...circuit check -LOGS)
5269 DHJ51: Grengel Meteo 0730 RTTY 100/400 wx tfc (DG)

5293.5 AWC: Calcutta Air IND 1230 RTTY 50/425 w/AFTN tfc to Dhaka (ML2)
5361.7 RFFXI: FF 2250 ARQ-E 96/400 Bangui CAF w/msgs to RFFXIC (ML2)
RFFXIC: FF Bouar, CAF 2300 ARQ-E 96/400 w/msg to RFFXI (ML2)
5380.5 RET***: Guardia Civil,Spain 2001 ARQ 100bd/400 crypto (MC)
5423.4 Unid: 0240 ARQ in receive mode. (RB)
5432 RFFE...: FF Bordeaux 2034 ARQ-E 72/400 CdeV (DG)
5474 CSY: Santa Maria, Azores Is 0300 RTTY 50/850 test tape, cct MSA to EIP but no traffic at this time. (JD2)
5739.5 5ST: Antananarivo Air 2103 RTTY 100/400 testing (DG)
5740 RFFE...: FF Bordeaux 1832 ARQ-E 72/400 CdeV (DG)
5798.5 Unid Navy MARS: 2240 PACTOR USMC MARS grams via NNN0MDB (RM)
5904 AFS: USAF Offutt AFB, Omaha (Elkhorn), Ne, US UTC? RTTY 75/896 2 stopbit wx (RT2).
5908 AFS: USAF Offutt AFB, Omaha (Elkhorn), Ne, US UTC? FAX 120/576 fair quality (RT2).
6223.3 Rig Lloyd Noble, Noble Drilling 0550 ARQ w/Meren Field drilling status. (RB) Unid 2305 ARQ. oil rig. Severely garbled text in EE. Lots of QRM. Better reception at 0030. Unid 2336 ARQ. idling. Rick Baker reported last month about oil rig ARQ xmsns on this freq.(RM)
6235.5 Unid: 1421 TTY sys. Clover? W-4100 can't decode this sys. Sent CW ID at 1429 then back to data mode. QRT 1434. (RM)
6262.5 U.S. Naval Academy, Annapolis, Md 0547 PACKET w/packet training boat (YP's) comms including YP-690, DNTLES ('Dauntless') & others. (RB)
6263 LAYS4: M/V Aastun 0640 ARQ Norwegian-flagged bulk carrier w/ETA Scattery, login 259748000 LAYS. 5MWO: SS Stena Concordia 0648 ARQ Liberian-flagged vsl w/AMVER/PR, 1215N/05324W, login 26644 TMWO. SXPT: M/C Astro Sirius 0801 ARQ Greek-flagged 277,999 DWT tanker w/tlx reporting anchored. (RB)
6264 WFDW: Keystone Rhode Island 0422 ARQ w/qrg rpt. KQ2XVJ2: (TEST STATION @Globe) 0442 ARQ wkg kfs w/ strange msg (buncha #s) (not qrg rpt). KNIJ: SS Manulani 0345 ARQ w/e-mail eta Oakland. WRJP: M/V R.J. Pfeiffer 0420 ARQ wkg kfs w/e-mail to hono and qrg rpt. (WT)
6265.5 N/A: Angela Green 0423 ARQ 7,433 DWT dry cargo ship w/tlx tfc, vsl bound Barranquilla to Mississippi River, login 26854 ANELAG. (RB) UNID: 0558 ARQ w/amver tfc (missed 'a' line) login 636009759 sull. (WT) (ELPG8, M/V James M. Sullivan -LOGS)
6267 V2QC: MV LAGARFOSS 0630 ARQ msg for ETA Hull via OXZ. (HOOD) C6CS4: M/V Jytte Danielson 0349 ARQ w/tlx for list of items to be repaired. OUVD2: M/V Danica Sunbeam 0426 ARQ 1,700 DWT Denmark flagged dry cargo vsl, w/tlx for ETA Laurentian pilot. (RB)
6267.5 UWFU: M/V Viktor Kornatovskiy 0043 ARQ Ukrainian 7,416 DWT dry cargo (Azov) vsl, w/tlx re arrival Houston pilot, login 67936 UWFU. ELRU3: M/V Seaboard Universe 0423 ARQ 9,200 DWT Liberian-flagged Ro/Ro cargo ship, w/AMVER, vsl bound Miami, login 24854 ELRU3. (RB)
6269 WFKW: M/T Overseas New Orleans 0309 ARQ 43,643 DWT tanker, w/BBXX wx obs, login 11188 WFKW. UDSX: TKH Vera Maretskaya 0439 ARQ Russian 24,105 DWT bulk carrier, w/DISP-1 reports from master KM Bepeshko. (RB)
6270 S6CE: M/T Eagle Carina 1320 ARQ Singapore-flagged tanker, ex-Neptune Carina, w/AMVER/PR. (RB)
6271 LXPC: M/V Crystal Prince 0440 ARQ wkg osten 2310n 06717w eta Waterford (Ireland) next port zeebruge. (WT)
6274.5 ELAZ3: M/V Elgin 0438 ARQ 197,809 DWT Liberian-flagged bulk carrier w/AMVER tfc, vsl bound Port El Dekheila, EGY. (RB) C6NL6: M/S Veendam?? 0501 ARQ amver/pr 1921n 06636w. (WT)
6303.5 UGNQ: TSM Ocher 2256 RTTY 50/170 w/crew TG's using hull#/ID STM 8338 (KLS/MRH), was designated TSM, both TSM & STM translate to a medium freezer trawler type. (RB)
6314 NMF: USCG Boston 0157 FEC FAX sked/mib (DG)
6320 KPH: San Francisco 1505 FEC CA w/marine services info fol'd by tfc list. (RM)
6321.5 SVU3: ATHENS RADIO 2248 ARQ w/CW Marker "de SVT" and long tuning mark. (DW)
6331 UDB2: Kholmsk Radio, Sakhalin Isl 1020 ARQ w/ready signal, CW ID, hrd here for years, just learned location, also logged on 4218.5 & 8437. (FH)
6333.5 IGJ44: IN Augusta 0143 RTTY 100/850 availability msgs (DG) IGJ44: Italian Navy, Augusta 1807 RTTY 100bd/850 "igj44 /igj42lo /igj43fh"

CARB (MC)
6340.5 NMF: USCG Boston MA 1456 FAX 120/576 handwritten "96 HR SFC FCST". (RM)
6348 HWN: French Navy, Paris 1805 RTTY 150bd/850 "hwn de hwn de hwn ryryry... sgsgsg... 1 2 3 ..." (MC)
6355 UTW/USU: Mariupol Radio 1825 RTTY 50/170 followed by cw tfc list. (MS4)
6358.5 PBC: Dutch Navy, Goeree Island 1812 RTTY 75bd/850 CARB (MC)
6385 FUO6: French Navy, Toulon 1814 RTTY 75bd/850 "fuo6 fuo6 ryry... sgsg... kkkkkk" (MC)
6397 FUX: French Navy, Le Port, Reunion 1900 RTTY 75/850 RY's & SG's. (JD2) FUX: FN Le Port 2240 RTTY 75/850 w/VVV DE FUX RY's SG's (ML2)
6416 WLO: Mobile, Al 1235 FEC 100/170 ships tfc. (RT2)
6420.5 CSS: Santiago 1005 RTTY 100/850 5LG msg to VUDL, the msg in SS to KVLU from Talcabas. (FH)
6446 MURMANSK MET 1903 FAX 120/576 Obvious met map but interfering bars (scanner w/dirty perspex in light path?) Running slightly fast. Signal not good enough to confirm freq. (DW)
6452 NPG: 0445 FAX USN San Francisco w/500mb Analysis (MS5)
6456 CKN: CF Victoria CAN 0930 RTTY 85/850 w/sea & air wx (ML2)
CKN: Lazo, BC, CAN 1000 RTTY 75/850/FAX 120/576 w/EE wx to 1000, then FAX from Canadian Forces Forecast Center, Comox, transmitting on 2752.1, 4266.1, 6454.1, 12751.1, at 1022 same ID in RTTY, then wx in abbrev EE. (FH) CKN: CF Victoria, BC, Can UTC? RTTY 75/747 1.5 stopbit wx went to wefax at 0205 unable to copy too much qrn for wefax. (RT2) (note, these 3 logs combined from logs on 6455.8, 6455.9 & 6456...6456 noted most often -LOGS)
6462 FUM: FN Papeete, Tahiti UTC? RTTY 75/850 trf it cant be can it??(RT2)
6465 UFZ: Vladivostok R 1200 RTTY 50 & 100/170 w/telexes (ML2)
6481 GYA?: Whitehall 0100 RTTY 100/850 RY's then VMGTCHJ BH etc. (FH)
6802 Unid: 0525 ARQ-M2 96/? Sigs on Mk only; Pprob RSA wx station. (RH2)
6805.2 Many German AF-stations 1700 (VFT)3xFEC-A-192 encrypted tfc. after %%%%%%% (ANEU)
6852 RFFXL: FF Beirut 2107 ARQ-E 72/400 CdeV (DG)
6860 RPFN***: Portuguese Navy, Lisbon 2116 RTTY 75bd/850 "retj de rpfn test of rpfn ryryry int zbz k" (MC)
6905 5SM: unid Air sta (?Toamasina MDG) 1300 RTTY 100/425 w/RY & svce msg,cct id XTA (ML2)
6918.5 ECA7 Madrid Meteo, E UTC? FAX 120/576.(RT2)
6930.5 9MR: MN Johor Baharu MLA 2310 RTTY 50/850 w/regional sea wx (ML2)
6976 Unid: 0030 ARQ-E 192/170 reports & callbooks indicate the station as RFFHCA Ajaccio w/C.I. of EHQ, unable to verify as always idle when monitored, but if C.I. is EHQ then this quite likely not RFFHCA...might be RFFHA, suspect it is RFFE. (FH)
7309.7 RFHJ: Papeete Tahiti 0003 ARQ-E3 100/378 1 CHN FF idle. (RT2)
7398 NHF: 0441 FAX USAF Roosevelt Roads (MS5) (NHF is the USN at Roosevelt Roads, no known AF facility there & it's uncertain NHF is sending this data -LOGS)
7407.5 FDY: FAF Orleans 1625 RTTY 50/400 testing (DG)
7467.9 MFA COPENHAGEN 0945 TWINPLEX -400/-200/200/400. F7b-1. Tfc in Danish p/l. End of qso. Selcals TPZV (Reykjavik?). Further tfc in Danish but poor copy. (DW)
7484 SNN299: MFA Warsaw 1623 POL-ARQ 100/250 diplo tfc (DG)
SNN299: MFA Warsaw, POL 1410 POL-ARQ ID in FSK morse. (JD2)
7542.8 Unid: 0000 ARQ-E3 192/400 idle, won't hold sync due to broadcast QRM, reported as French Military. (FH)
7542.9 Unid: 0605 ARQ-E3 192/380 UNID FF somewhere ? GBGE on screen. (RH2)
7575 Unid: 1111 RTTY 75/170 encrypted (RM)
7586 RFVITT: Dzaoudzi 2200 ARQ-E 96/400 msg in FF to RFVIT Reunion (TTT). (FH)
7590 RSK43: UKR (?) 0730 RTTY 50/500 clg. RRK2 IN CW, then to RTTY, transmitting 'Citrus' test tapes. (ANEU)
7607.7 RFHI: FF Noumea NCL 0910 ARQ-E3 100/400 w/return of C de V to RFHJ cct id HIJ (ML2)
7625 HZN47 Jeddah Meteo 0030 RTTY 100/773 1ff stopbit synoptic wx (RT2)
7643.3 RFVI: FF Le Port REU 1050 ARQ-E3 100/400 idling (RM)
7646 DDH7: Hamburg Meteo, Quick 0028 RTTY Born, G 50/425 w/meteo reports. (RB)

7674 HBD20: MFA Berne 0723 ARQ 5 LG'S (DG)
7677 HBD20: MFA Berne 1113 ARQ 100/170 5 LG's (DG)
7682.5 AFA1AS: 1511 PACKET w/msgs to AFA1AM. USAF MARS stas.(RM)
7698.2 Russian Mil,??? 2057 MS5 12 tone vocoder (3300Hz pilot). (MC)
7704 Unid: 0130 RTTY 75/850 on at intervals, acts like might be British. (FH)
7705.7 RFTJ?: Dakar? 0130 ARQ-E3 48/400 idle, RFTJ usually 192 baud. (FH)
7748 ZKX: RNZAF Auckland 2230 RTTY 75/850 w/foxes (ML2)
7783.5 N/A: Somewhere in Puerto Rico? 0030 RTTY 75/850 w/BBXX ship wx observations. (RB) USAF AWS Ceiba Ptr 1307 RTTY 75/850 synoptic wx. (RT2) (no known USAF facility in Ceiba, poss USN, loc unsure -LOGS)
7788.5 GXQ: Royal Navy, London 2140 VFT: 2ch of Piccolo-6, eng. ch "de gxq u be 555'ers pal kkkilo" (MC)
7788.9 GXQ: Royal Navy, London 2141 VFT: 2ch of Piccolo-6, crypto (MC)
7802 DFZG: MFA BELGRADE 1102 RTTY 75/400 Offline encryption. Characteristics of Belgrade. (DW)
7806 YZI225: TANJUG BELGRADE 1818 RTTY 50/400 Press in EE. (DW)
7808 DFZG: MFA BELGRADE 1418 RTTY 75/400 On line encrypted tfc after "xrxrxrxr" string. Ends "tks 73 sk". (DW)
7816.7 Many German AF-stations 0920 (VFT)3xFEC-A-192/170 encrypted tfc. after %%%%%%% (ANEU)
7822.2 FDZ: Paris 0159 ARQ-M2 200/400 idle, at 0200 switched to E3 200/400, this was on June 10th & has been E3 for several months so M2 equipment still available. (FH)
7832.5 AFA1DA: U.S. Air Force MARS 1605 FEC wkg 2nd station w/info re Hurricane Bertha. AFN1RT: U.S. Air Force MARS 2346 FEC wkg 2nd station re frequencies for Hurricane Bertha comms, FEMA 5211 USB mentioned. (RB) AFA1KS: USAF MARS Biloxi, Ms UTC? FEC w/net chk ins. (RT2)
7863.5 SPW: Warsaw R. POL 1657 FEC idling. (RM)
7870 NHF: 0300 FAX USAF Roosevelt Roads (MS5) (NHF is the USN at Roosevelt Roads, no known AF facility there & it's unconfirmed NHF is sending this data -LOGS)
7880 DDK3: HAMBURG MET 2140 FAX 120/576 Wave prediction chart for N. Atlantic. (DW)
7892.5 MFA VIENNA 1220 ARQ-S 96/200 5rc (ACF70). Opr chat in German. (DW)
7896.7 RFLI: FF Fort de France MRT 1039 ARQ-E3 96/400 RQ sig. (RM)
7915 AFH1RT 0100 FEC chatting w/AFA2DR, AFA1JN. (FH)
7925 RFPN: Portuguese Navy Portugal 0103 RTTY 75/850 testing (DG)
7946.7 TROTTER: Philippine Military Manila 0900 ARQ w/msgs to units in Sthn PHL (ML2)
7970 Unid 0010 ARQ-E 72/400 idling, suspected // 4495 but that station off at 0042 while this one continued on to 0152. (FH)
7977 Unid 0000 RTTY 50/1000 earlier & later monitored ARQ-E 72/400 same freq, unk if different station. (FH)
7985.5 Unid: 1951 Piccolo 12tone on traffic (KN)
7986.8 Unid: 1509 75/850 encrypted. (RM)
7987.3 Unid: 1115 RTTY 75/850 encrypted (RM)
7991.7 FJY2: TAAF Port-aux-Francais KER 0910 ARQ-E3 96/425 w/msgs to FJY3. (ML2)
7998.2 RFHJ: FN Papeete Tahiti 1132 ARQ-E3 96/400 returns cdv msg to Fort de France on HJL ct (RM)
8001.8 RFHJ: FN Papeete Tahiti 1214 ARQ-E3 96/400 msg on HJL ct to Fort de France saying that a msg on the latter's LIH ct was not rcvd (RM)
8005.4 RFHJ: FN Papeete Tahiti 1200 ARQ-E3 96/400 returns cdv msg to Fort de France on HJL ct (RM)
8010.6 7RQ20: Algerian MFA, Algiers 2133 COQUELET-8 13.3bd&26.7bd "vci off alger", NX in FF to Peking (MC)
8020.1 HMF85: KCNA Pyongyang, KRE 1806 RTTY 50/250 w/nx/EE (AWFUL TRIPE!). (RH2)
8028 V5G***: Romanian MFA, Bucharest 2012 ROU-FEC 164.5bd/400 crypto (Bitmask=24) (MC)
8030.3 Unid: 0230 ARQ-E 72/425 idling. (RB)
8035 Unid: 0908 VFT 2ch VFT Picc 6tone 0.51 and 0.91 stdby (KN)
8036 Unid: 0950 VFT 2ch VFT Picc 6tone 0.51/0.91 stdby (KN)
8050.2 RFQP: French Forces, Djibouti 2330 ARQ-M2 200/425 idling. (RB)
RFQP: FF Djibouti, Dji 0117 ARQ-M2 200/375 idle.(RT2)
8105 RFFX: Mindefense Paris F 0122 ARQ-E 72/400 idle. (RM)

RFFX: MOD Paris, F 0045 ARQ-E3 72/390 idle.(RT2)
8108.2 RFQP: French Forces,Djibouti 2333 ARQ-M2 200/425 idling. (RB)
RFQP: FF Djibouti DJI 0120 ARQ-M2 200/400 idle.(RM)
RFQP: FF Djibouti, Dji 0027 ARQ-E3 192/372 idle.(RT2)
8146.6 IMB55: Rome Meteo I 0126 Fax 120/576 wx chart. (RM)
8178 GYA?: Northwood 0000 RTTY 75/850 RY's then VMGTCHJ BH etc, periodically. (FH)
8184.5 Unid: 0000 UNK 200?/400 looks like encryption. (FH)
8307.5 GYA?: Northwood 2345 RTTY 100/850 RY's then VMGTCHJ BH, & encryption. (FH)
8331.5 GYA: Royal Navy London, G 2336 FAX 120/576 w/wefax, fair chart. (RB)
8334.5 Unid: 2155 ARQ unid station idling in 'receive mode' for several mins, at 2159 sent 5LG's, no ID. (RB)
8337.5 Unid: 2153 ARQ unid station idling in 'receive mode' for several mins, no tfc sent. (RB)
8377 P3VM2: MV PONTOKRATIS 0720 ARQ with ETA for Spodsbjerg pilot station via Portishead Radio. (HOOD)
8377.5 WBWK: M/V Moko Pahu 0002 ARQ wkg kfs, login 10750 wbwk. (WT)
8378.5 LAWE4: Oscar Viking 0038 ARQ 26,920 DWT tanker, w/login in for msgs. (RB)
8379 ELNS4: M/V Pacific Star 0612 ARQ Liberian-flagged 10,564 DWT reefer (Star Reefers) w/tlx re bound from Turbo to Philadelphia. P3TH6: M/V Hilon of Sparta 1232 ARQ Cyprus-flagged 75,631 DWT bulk carrier, w/ETA to Gibraltar. (RB) ELNS4: MS Pacific Star 0144 ARQ w/tlx, login 24354 pstr. 3EIK8: M/V Atlantic Star 0208 ARQ dept Moin, eta Turbo. 42715 astar. P3OY2: M/V Sea Sonnet 0223 ARQ w/msg to brave maritime. (WT)
8379.5 UERJ: TK PETR SHMIDT 0526 ARQ msg to Genoa w/eta for Gdynia. (HOOD) LXVC: M/V Crystal Privilege 0658 ARQ 7,726 DWT reefer w/login to SAB, Goteborg Radio, for msgs, login 29066 LXVC. (RB) DVGJ: M/V Morillo 0345 ARQ w/tlx to Antwerp. login 26539 morilo. KLKZ: M/T Omi Columbia 1713 ARQ w/amver/pr in 'm' line gave kbq as sitor contact. who is KBQ????? (WT)
8380.5 9MTZ: Bunga Seroja 1300 ARQ obs msg to meteo Singapore, QSY 8381.5 @1304. (AB2) HBDH: MV VILLARS 0640 ARQ msg rpting sailed Vigo via Bern Radio. (HOOD) YLDE: MK Akademikis Chelomeyes 0205 ARQ w/TG tfc routed to Riga. YLBC: TH Aristarkh Byelopolskiy 0219 ARQ w/TG reporting arrival Balboa Roads. YLAS: TR Nikolay Koperniks 0234 ARQ Latvian 6,400 DWT "B-457 type" reefer w/admin TG's from master Denisyuks, login 60623 YLAS. YLBP: TK Hose Marti 0315 ARQ Latvian 39,870 DWT tanker w/TG to LSC tanker dept re loading Trinidad, also admin tfc to "Radio Riga Marine Division". TCAM: M/V Fuat Atasoy 0335 ARQ w/posn tlx, 2354N/08233W. (RB) ELKV3: M/V Pacific Runner 0330 ARQ wkg cbv in opr mode req good chnl for telcall to india. (WT)
8381 CSDB: N/M Monte de Guia 0559 ARQ 9,850 DWT dry cargo vsl, w/tlx, cargo ap's to include 35 autos, 1 tractor, 1 'camiao', & 5 'baldeacoes'. (RB) ELGH5: M/V Crown Princess 0400 ARQ wkg wlo w/ svc. login 24501 elgh5. (WT)
8381.5 LZGD: MV Stanko Staikov, ship 05923 1804 ARQ sc Varna radio (BvR) LZEG: MV DOBRUDJA 0700 ARQ ro-ro cargo vsl w/ETA for Burgas fm Kapt Milanov. login 05948 DOBR. YLAY: INZENIERIS KREILIS 0618 ARQ admin from Km Krastins, login 60628 YLAY. (HOOD) LZGD: M/K Stanko Staikov 0205 ARQ Bulgarian 9,141 DWT container ship w/TG via LZW, Varna Radio. (RB)
8382.5 TCKT: M/V Mentese 0408 ARQ 54,199 DWT bulk carrier w/noon posn, 2739N/13317W, course 066 at 11.09k. (RB) C6GR: M/V Chiquita Queen 0210 ARQ w/tlx. 3FVM4: Ansac Orient 0200 ARQ w/tlx login 42626 ansa. TCKT: M/V Mentese 0317 ARQ noon psn rpt. 2111n 14856w. 65775 tckt. WWND: SS Overseas Juneau 0322 ARQ amver/pr 4815n 12332w dep pt angeles, wa, usa. 11091 wwnd. (WT)
8383 CCLY: PFG Lynch (F-07) 0355 ARQ Chilean Navy British Leander-class frigate, wkg CBV, Valparaiso Radio, Chile, w/5LG msg traffic, login 19017 CCLY. ELOU5: M/V Zenith 0430 ARQ cruiseship, w/tlx tfc to SS Meridian, C6IP3 & M/V Horizon, ELNG6, in Greek. (RB)
8383.2 CCLY: Lynch 0300 ARQ cbv de ccly msg w/5lg then qsy'd to 6269.7. (WT)
8383.5 UJSB: TKH PIZHMA 0623 ARQ msg to Sudmar, Bremen via DCL. ELPN4: MB THAMES 0713 ARQ w/eta for Piombino via DCL, login 24563 MBTH. (HOOD)
8385.5 KGDF: Mormacstar 1203 ARQ tlx for needed equipment/supplies, selcal

10746 STAR. (AB2) UOAW: TKH Fatezh 1514 ARQ 7,805 DWT bulk carrier (Azov) w/crew TG's to Mariupol, per chg listed in 93ITU c/s should be UWDL, but UOAW still used. (RB)
8386.5 9GYU: M/V Keta Lagoon 2344 ARQ 16,667 DWT dry cargo vsl (Black Star Line) re Great Lakes inspection, login 19402 9GYU. (RB)
8387 OWDX2: Luna Maersk 1220 ARQ 24 hr performance report. (AB2) ATZN: M/V Lok Kirti 0350 ARQ Indian 33,133 DWT bulk carrier (Shipping Corp India), w/tlx re sailed Victoria, login 23728 ATZN. OXGF4: M/V Nautilus 2236 ARQ w/login for msgs, login 10177 OXGF4. (RB) SQGX: M/T Otol 0525 ARQ w/tlx login 43237 sqgx. SQGD: M/T (F/V) Wlocznik 0528 ARQ w/tlx. login 43271 sqgd. SQRG: Acrux 0550 ARQ wkg kph. login 43123 sqrg. SZNU: M/V Trident Mariner 0610 ARQ w/tlx re cargo (sugar). login 16872 sznu. EOIQ: TH Aram Khachaturyan 0634 ARQ w/svc to radio Odessa. C6FA2: Samuel H. Armacost 0415 ARQ w/amver/fr login 368469000 arma. WMCK: SS Overseas New York 1724 ARQ wkg kph w/ tlx. login 10539 wmck. P3DY5: M/V Ourania Smile 0358 ARQ tlx to showa Tokyo, arrive Vancouver, bc. 27585 p3dy5. (WT)
8388.5 C6KO5: Smit Lloyd 0225 ARQ w/tlx in ?? login 61354 c6ko5. (WT)
8390 9VMP: Front Rider 1250 ARQ obs msg. VVJN: Uttarkashi 1309 ARQ AMVER msg. C6KR7: Winter Moon 1629 ARQ tlx to Cool Carriers re search of vsl for two stowaways (not found), selcall 26125. (AB2) UWSB: TKH KAPITAN MEDVEDEV 0738 RTTY 50/170 admin to Odessa from Km Mamkin. (HOOD) LAMN4: Nedlloyd Van Rees 0020 ARQ amver/pr 1828n 11200w. login 29464 lamn4. ENZZ: M/T General Merkviladze 0245 ARQ w/tg in ?? login 55310 enzz. (WT)
8390.5 ELRV7: M/V Seaboard Caribe 1456 ARQ Liberian-flagged 9,200 DWT Ro/Ro cargo ship w/tlx for ship's chandlers order, login 24948 ELRV7. 9VYK: M/V California Galaxy 1613 ARQ Singapore-flagged container ship w/login for msg ck. (RB)
8391 TCAM: Fuat Aksoy 0215 ARQ chatting in ??. 65789 tcam. (WT)
8391.5 UGSH: TKH Slavyanka 0618 ARQ w/login for msg ck. UIJR: TKH Khudozhnik Fedorovsky 0620 ARQ Russian-flagged 24,354 DWT bulk carrier, w/BBXX wx observation. (RB) UETV: M/V Socofi Trade 0235 ARQ clg uat, Moscow, no joy. login 55954 uetv. (WT)
8392 PPML: M/V Frotachile 0150 ARQ 38,143 DWT bulk carrier, w/tlx for ETA Victoria. WEZD: SS Chief Gadao 0435 ARQ 38,583 DWT U.S. flagged container ship w/test of e-mail system, login 10867 WEZD. (RB)
8392.5 UZUC: TKH Akademik Pustovoyt 0536 ARQ 88,723 DWT Ukraian-flagged tanker w/admin tlx to Novoship Opr Novorossiysk from master KM Sinchenki, posn 3445N/02259W. UWKX: M/T Kapitan Ostashevskiy 0554 ARQ Ukrainian-flagged 67,958 DWT tanker w/crew TG's to Novorossiysk Radio. UMDL: TK Kuzbass 0613 ARQ tanker, w/login to Novorossiysk Radio for msg ck, login 54831 UMDL. URTU: TK Marshal Bagramyan 2215 ARQ Ukrainian flagged 67,980 DWT tanker, w/DISP-1 reports to Novorossiysk. (RB)
8393 BOPR: Lu Ban 1321 ARQ tfc for Shanghai. (AB2)
8394 VRUF8: M/V Orient Star 0630 ARQ w/BBXX wx observation. HSIP: M/V Heritage 1213 ARQ 20,949 DWT dry cargo ship w/tlx for ETA Santiago in heavy seas. (RB) 3ELQ9: M/V Columbine 0140 ARQ w/tlx, sailed Vera Cruz, eta Houston. P3FA5: M/V Nirvana 0342 ARQ tlx to brave maritime, Athens. 00523 p3fa5. P3AB3: M/V Atlantis TWO 0419 ARQ w/tlx. login 01718 atwo. (WT)
8395 BRYK: Da Qing 246 1145 ARQ tfc. (AB2)
8396 V2TW: Startramp 2248 ARQ 6,405 DWT dry cargo vsl, w/tlx reporting berthed at Puerto Cabelo. C6LU7: M/V Norcape 2251 ARQ w/tlx for ETA Brayton Point pilot. (RB) P3TH6: M/V Hilon of Sparta 0442 ARQ w/tlx, login 29639 hilon. (WT)
8397 UCBM: TKH Mekhanik Pustoshnyy 2218 ARQ 2,657 DWT dry cargo ship w/admin tfc to Arkhangelsk from master KM Karpenkov. (RB) LAIJ2: M/V Dyvi Baltic 0540 ARQ login 26900 laij2. (WT)
8398 ELEO2: M/V Kanin 1215 ARQ 24,713 DWT bulk carrier w/AMVER, vsl bound Rio de Janeiro. UWUG: TR Azov 2327 RTTY 50/170 w/crew TG's (NVR/KRH), vsl bound W. Africa, this was RTMS Azov Gavrilenko but used only "Azov" here w/"TR" indicating a reefer. (RB)
8398.5 SPZC: MV FRYCZ MODRZEWSKI 1316 ARQ opr chat w/SPA. N/A: MV EMERALD RAY 0655 ARQ car carrier passing eta for Southampton, login 29655 EMER. (HOOD) (poss C6LY2 -LOGS)
8399 UQTD: BKRT Nataliya Kovova 0234 RTTY 50/170 Ukrainian trawler w/admin

tfc to Sevastopol SGP Atlantika via master KMD Nikiforov. (RB)
8399.5 UHMK: SRTM Strelnya 2229 RTTY 50/170, crew TG's using hull#/ID SRTM 8108 & name. UBRJ: TR Ulbanskiy Zaliv 2257 RTTY 50/170 9,360 DWT reefer/fish carrier w/crew TG's (KLD/VTF). (RB)
8400 9HJV3: TKH ODESSA SUN 0643 RTTY 50/170 RYs to UUI, no joy. (HOOD)
8401.5 LYFI: RTMS LAUKUVA 0653 RTTY 50/170 crew TGs and admin for Thorshavn from Km Kashchenkov via LYL. (HOOD) UNDG: TR Ivan Pribylskiy 0208 RTTY in 50/170 crew TG's. EOGO: TKH Petr Smorodin 2050 RTTY 50/170 w/crew TG's to Odessa. LYIV: SRTM Gornostaevka 2106 RTTY 50/170 w/RYRY/DE, & w/admin msgs from master KM Berdnikovich. (RB)
8402.5 UPXW: HEATHER SEA (TSM 8366) 0701 RTTY 50/170 admin in EE (ETA for Rostock) and crew TGs in Russian to UIW. Vsl is ex OTYNYA. ELRA4: MTR STARLETTE 2 0700 RTTY 50/170 admin from Km Starchenko to KALININGRAD REFTRANSFLOT via UIW. YLGC: TKH BERINGA SALA 0754 RTTY 50/170 crew TGs to UIW. (HOOD) UEPZ: RTMS Nikolay Afanasev 2158 RTTY 50/170 crew TG's to Kaliningrad Radio, ex-LYEW. YLGC: TR Beringa Sala 2257 RTTY 50/170 Latvian reefer w/admin TG to Riga RTF (Refrigerated Transport Fleet) from master KM Kositsyn. (RB)
8403 UAYN: Unid MI-1664 0010 RTTY 50/170 crew TG's using hull ID MI-1664 to Murmansk Radio, apparently a recent c/s change, no prior ID for MI-1664. (RB)
8403.5 EKNB: IZUMRUDNYY BEREG 0658 RTTY 50/170 admin to Murmansk via UIW. Vsl call sign changed to UAZX in ITU. ELRA5: MTR STARLETTE 3 2206 RTTY 50/170 admin from Km Podorots to UIW. Vsl is ex Matros Baltiki, UUQY. (HOOD) UOLZ: TSM Kaluga 2129 RTTY 50/170 w/crew TG's to UIW, Kaliningrad rdo (KLD/UTF), TSM is a Trauler Srednyj Morilzhnyj, or medium freezer trawler. ESMD: RTMS Kormoran 2208 RTTY 50/170 RYRY/DE to UIW, & w/long order list using hull ID RTMS 7535/Kormoran. (RB)
8404 UIAE: IVAN ZIMAKOV (MB-0005) 0735 RTTY 50/170 crew TGs using this hull number via UDK2. (HOOD)
8405 ODSA: MV LADY IMAN 0922 RTTY 50/170 RYs then QSY to 12560.0 for msg to Continental Ship Management, Beirut with ETA Ventspils via USU Mariupol Radio. (HOOD)
8405.5 EOIB: TKH GEROI SHIPKI 0720 RTTY 50/170 admin to "UKRFERRI". Vsl is a ro-ro ferry. (HOOD) UALN: MKRTM Gilale 2210 RTTY 50/170 Russian small trawler/freezer, w/crew TG's to UIW, & w/1 TG using hull#/ID MKRTM0623. (RB)
8406 V3SL6: TK BETA 0638 RTTY 50/170 msgs in RR and EE from Km Butovskiy to St Petersburg and Hamburg for ETA Tallinn. (HOOD)
8406.5 SPXQ: Grunwald 0008 ARQ Polish-flagged 12,027 DWT dry cargo vsl (Pol America) w/tlx in Polish. (RB)
8407.5 UAWW: KAPITAN ORLOV (AG-1355) 0626 RTTY 50/170 RYs to RKLM, no joy then QSY to 12563.5 for tfc to Arkhangelsk. (HOOD)
8412.5 Unid 0530 RTTY 75/425 encrypted traffic (24 hrs) (MS4)
8413 UEUA: TKH Boris Zhemrizhin 2306 ARQ Russian flagged 13,150 DWT dry cargo vsl (Baltic Shpg) wkg UGC w/crew TGs, login 55566 UEUA. UTUO: TKH Professor Nikolay Baranskiy 2308 ARQ wkg St Petersburg Radio for "mailbox" traffic, login 55443 UTUO. UQRT: TKH Ilya Ulyanov 2312 ARQ wkg UGC, St Petersburg Radio, for sitor mailbox traffic. (RB)
8417 GKE: Portishead Radio 1826 ARQ tlx tfc (BvR)
8417.5 KFS: San Fran Rad, Ca 1425 FEC 100/170 ships tfc chn#807. (RT2)
8419.5 SAB407: Goeteborg Radio 1202 ARQ maritex tfc (DG)
8422 NRV: USCG Guam 0945 ARQ w/ready signal, CW ID. (FH)
8423 SVT4: ATHENS RADIO 2020 FEC QTC list. Qsx 6 8 12 16 mhz. Then marker "de SVU". At 2253 CW Marker "de SVU" and log tuning mark. (DW)
8424 SVU4: ATHENS RADIO 1337 CW Marker "de SVT" and tuning mark. (DW)
8428 SAB424: Goeteborg Radio 1852 ARQ maritex tfc (DG)
8430 SPA42: Gdynia Radio, POL 0200 ARQ w/ready signal, CW ID. (FH)
8434 WLO: Mobile, Al UTC? ARQ w/CW WLO marker w/a ''T" (RT2).
8434.5 SAB: Goeteburg Radio 1640 FEC global wireless mgs (BvR)
8453.5 HWN: French Navy, Paris, F 2340 RTTY 75/850 w/RYRY, SG's, ten count & DE HWN. (RB)
8454 UJY: Kalingrad R 1019 RTTY 50 tlx tfc (BvR) (UJY now UIW -LOGS)
UIW: Kaliningrad Radio 1039 RTTY 50/250 maritex tfc (DG)
8459 NUD: 0416 FAX USCG Kodiak w/Surface Charts (MS5)
8465 Unid: 1021 RTTY 100 scramble (BvR)
8493 Unid: 1023 RTTY 100 scramble (BvR)
8503.9 NMG: USCG New Orleans, La 1550 FAX daily FAX sched (RT2)

8641.5 MGJ: London 0100 RTTY 75/850 availability chart. (FH) (MGJ is the Royal Navy sub base at Faslane, Scotland -LOGS)
8650 SPE42: Szczecin Radio, Poland 0130 ARQ w/sitor free signal. (RB)
8677.2 CBV: Valparaiso Radio, CHL 2330 FAX 120/576 w/chart distorted due to strong Sitor-A QRM from UGC on 8677.5 khz. (RB)
8677.5 UGC: St Petersburg Radio, RUS 2309 ARQ wkg UEUA, TKH Boris Zhemrizhin w/msg ck, system shows "0 PRIORITY 3 SYSTEM 0 OTHER" msgs. Also worked UTUO, TKH Professor Nikolay Baranskiy (55443 UTUO); UUUZ, TKH Samarkand (55731 UUUZ); & UQRJ, TKH Ilya Ulyanov (55238 UQRJ), for tfc. (RB)
8822.5 Saudi National Guard,??? 2027 125bd/170 ARS-GUARD (MC)
8988 Unid: 1453 RTTY 75 scramble (BvR)
8991 Unid: 2142 ARQ 100bd/585 5LGs ending "zendz", opchat in coll. EE (MC)
9034.7 RKUKGK: Egyptian Embassy, Havana, Cuba 2250 ARQ 100/425 w/circular traffic to various embassies in ATU-80. (RB)
9090 NPG: USN S.Fran, Ca UTC? FAX 120/576 very poor. (RT2)
9112 SNG205: Poland (?) 0908 RTTY 75/500 RYRYRY (ANEU)
9114 MTI Hungary UTC? RTTY 50/240 nx in ee (RT2).
9115.7 PM01***: Algeria/Tunisia? 2200 ARQ 5LGs to "UN46". ZM88***: Algeria/Tunisia? 1642 ARQ Opchat in FF "ok c'est 39 39 kkk ar". KJ85***: Algeria/Tunisia? 1816 ARQ 5LGs to "zm88" (part of 11162.7kHz net). UN46***: Algeria/Tunisia? 2200 ARQ 5LGs to "PM01" (MC)
9161.6 Egyptian Embassy, Rome 1936 ARQ 100bd/140 ATU-80 and 5LGs to MFA Cairo (MC)
9179 HBD20/3: MFA BERN 0929 ARQ Offline encrypted tfc (lts & double spacing) then off air. Returned briefly with selcal BMIP & ID HBD20/3. (DW)
9189 Unid: 2030 100bd TT2300b, idle (MC)
9206.7 Egyptian MFA, Cairo 2048 ARQ ATU-80 MSGs (MC)
9226 GYU: Royal Navy, Gibraltar 2034 RATT 75bd/850 crypto (MC)
9241.7 FJY2: TAAF Port aux Francais KER 0900 ARQ-E3 96/425 w/PTT msgs to FJY5 (ML2)
9243 Unid: 2036 RTTY 50bd/500 "ryryryryry..." no ID (MC)
9249.7 Chinese Diplo,??? 1942 4+4 (MC)
9266 OMZ66: MFA BRATISLAVA 0910 RTTY 100/400 Diplo press summary in Slovak. (DW)
9324.3 Unid: 2058 station in idle w/unid mode similar to ARQ-E. Per post by Ed Deasy, mode has 7 character ITA2-P betas followed by 7 zero's. Ed has seen this station return to ARQ-E mode at times. (RB)
9324.7 RFFXIW: Unid 0005 ARQ-E 96/400 FF w/svce msg to Favieres cct id XZW (ML2)
9983.7 RFFA: MOD Paris, F UTC? ARQ-E3 99/396 1ch encyptred trf. (RT2)
10018.6 Egyptian MFA, Cairo 1725 ARQ tfc (MC)
10031.7 Egyptian Embassy, Wash D.C. 0008 ARQ w/tfc to BKFQSR KDAKRFR (MFA Cairo). (RB)
10037.6 Unid, also 10037.8 2130 UNK high bauds, 400, maybe E288? Can't read here. (FH)
10094.7 Egyptian MFA, Cairo 1823 ARQ idle (MC)
10114.7 FJY2: TAAF Port aux Francais KER 0920 ARQ-E3 96/4125 w/msgs & nx FF to FJY4 (ML2)
10120 NSY: USAF Sigonella, Sicily 1815 ISB w/voice on LSB, VFT 6028 on USB, wkg AJE. (JD2)
10130 RBX73: Tashkent Meteo 1204 FAX 120/576 wx map (EW)
10154 Russian Mil,??? 1950 81-81 81bd/250 tfc (MC)
10161.7 EGY-DIPLO London 1850 ARQ messages in ATU-80 + E-NX (ANEU)
10161.7 'TFB': Mossad Tel Aviv 0530 (VFT) 3xFEC-A-192/170, RY + 5LGs (ANEU)
10161.7 Egyptian Emb.,Washington 2133 ARQ 100bd/140 ATU-80 MSGs marked "jg lkzgcg" to MFA Cairo (MC)
10170.2 HSW 63: Bangkok Meteo 1149 RTTY 50/170 wx reports bit off freq I think (EW)
10191 AJE: USAF Croughton, UK 1815 ISB w/voice on LSB, VFT 6028 on USB, wkg NSY. (JD2)
10192.5 DHJ59: D-NY Wilhelmshaven UTC? (VFT)3x150Bd/170 tfc to DRAT frigate 'Emden' + USB. DRAT: Frigate Emden UTC? (VFT)3x150Bd/170 messages to 'RXFEAB' (ANEU)
10200 MKK: RAF London G 2350 VFT 50/170 RYI's foxes & 10c on all ch's (RM)
10201 MKK: RAF London 2310 RTTY 50/425 w/foxes, 1 thru 0 count. (RB)
10215 HZN48: Jeddah Meteo 0105 RTTY 100/756 wx (RT2)

10243.2 Russian Mil,??? 1738 MS5 12 tone vocoder (3300Hz pilot). (MC)
10250.5 British Mil,??? 1827 Piccolo-12, crypto (MC)
10253 NPM: Guam Meteo 1152 FAX 120/576 wx map (EW)
10257 NPM: Guam Meteo 1152 FAX 120/576 wx map (EW)
10281.2 RFLIG: FF Cayenne GUF 2355 ARQ-E3 192/400 cdv on RTI ct (RM)
10284 1HB8GVA: ICRCHQ, Geneva 1729 PACTOR-I1 200bd/200 also PacTOR-2, MSGs to RC2BEL (MC)
10299 HSW62: Bangkok, Thailand 2105 RTTY 50/170 w/wx for far east. (JD2)
HSW62: Bangkok Meteo 1149 RTTY 50/170 wx reports (EW)
10312 NATO Mil,??? 1958 PSK 2400bps UNID System (MC)
10321.2 Russian Mil,??? 2027 MS5 12 tone vocoder (3300Hz pilot). (MC)
10346 MKD: Royal Air Force, Akrotiri 1929 RTTY 75bd/850 "vv de mkd ryryryryry... int zbz" (MC)
10364 RFTJDA: FF Liberville, Gab 0210 ARQ-E3 48/527 idle. (RT2)
10370.5 GXQ: Royal Navy, London 2202 VFT: 2ch of Piccolo-6, eng. ch "de gxq you 59's pal kkilo" (MC)
10370.9 GXQ: Royal Navy, London 2203 VFT: 2ch of Piccolo-6, crypto (MC)
10372 Russian Diplo,??? 1933 CROWD-36, selcal mode (MC)
10380 Unid: 1147 UNID 110/170 narrow shift encr txt (EW)
10388 Russian Mil,??? 2044 81-81 81bd/250 tfc (MC)
10430 'UMC': UNID ROU-DIPLO 1644 RTTY 75/410 SELCAL-tfc. (ANEU)
10442.1 GYA?: Northwood 0100 RTTY 100/850 RY's then VMGTCHJ BH, & encryption. (FH)
10469.5 'CJL': MOSSAD Tel Aviv 1520 ARQ-E-96/340 tfc to SISMI Roma (ANEU)
10471 Unid: KRE-DIPLO 1811 RTTY 50/1000 5 FGs and messages in romanized Korean (ANEU)
10493.7 RFTJF: FF Port Bouet CTI 0008 ARQ-E3 48/400 idling (RM)
10521.7 RFLI: FF Fort de France MRT 0013 ARQ-E3 192/400 RQ sig. (RM)
10524 KCNA North Korea UTC? RTTY 50/500 nx in ff very good sig. (RT2)
10535 RDL: Russian navy Moscow,RUS 1102 RTTY 50bd RDL RDL RDL +encrypted messages (AB)
10536 CFH: Halifax Meteo 1144 RTTY 75/850 wx reports (EW)
10551.3 GFL23: Bracknell Meteo,G 1059 RTTY 75bd Synops (AB)
GFL23: Bracknell Meteo, UK 2050 RTTY 75bd/400 TTAA and AAXX WX (MC)
10615.5 GYU: Royal Navy, Gibraltar 2102 VFT: 2ch of Piccolo-6, eng. ch "de gyu we not rx u on f2159 or ft051" (MC)
10615.9 GYU: Royal Navy, Gibraltar 2103 VFT: 2ch of Piccolo-6. crypto tfc (MC)
10617.5 French Diplo,??? 1456 TT2300b 100bd tfc (MC)
10645 Unid: 0639 F1B 225Bd/170 unid burst system w/long bursts like Packet Radio with 8-bit korr. during start sequence. Probably a new R&S-ALIS
10650 DKR: Soud station 0840 RTTY 75/500 5 LG's (DG)
10686 9DM17: Teheran Meteo, Iran 1830 RTTY 50bd/400 AAXX WX for Iranian land stns (MC)
10701.7 Many German AF-stations 0915 (VFT)3xFEC-A-192/170 encrypted tfc. after %%%%%%% (ANEU)
10719 RPTI: Ponta Delgada, Azores 1010 RTTY 75/794, clg RXFI, NATO base at Oeiras, Portugal. Once contact was made transmission changed to un-id mode, still at 75 baud.(PT)
10737.8 MFA Helsink, 1113 F1B 301.5 long bursts similar to Packet w/8-bit korr. during start sequence. (ANEU)
10746.5 Belgian MIL Evere 0715 RTTY 50/425, tour de France report in Flamish (ANEU)
10753.5 NATO Mil,??? 1936 PSK 2400bps UNID System, Opchat in FF w/mil-style calls on USB (MC)
10755 Unid: Ukraine 0505 CIS-14 96/500 'Citrus' test tape, then into pseudo#-bitstream, QSX ??? (ANEU)
10798.3 RFLI: FF Fort de France MRT 0026 ARQ-E3 192/400 idling (RM)
10800 GYU: Royal Navy, Gibraltar 1650 RTTY 75/850 de GYU etc //12261. (JD2)
10804.2 Russian Mil,??? 2020 MS5 12 tone vocoder (3300Hz pilot). (MC)
10810.2 Russian Mil,??? 1041 MS5 12 tone vocoder (3300Hz pilot). (MC)
10815.2 Russian Mil,??? 1944 MS5 12 tone vocoder (3300Hz pilot). (MC)
10845.5 GXQ: Royal Navy, London 1839 VFT: 2ch of Piccolo-6, eng. ch "muh de gxq lolololololo int zbz" (MC)
10845.9 GXQ: Royal Navy, London 1840 VFT: 2ch of Piccolo-6, crypto tfc (MC)
10873 Russian Mil,??? 1826 81-81 81bd/200 tfc (MC)
10917.7 RFTJ***: French Forces, Dakar 1953 ARQ-E3 48bd/400 MSGs and 5LGs from RFFIC and RFFKGML (MC)

10917.7 RFTJ: FF Dakar, Sen UTC? ARQ-E3 48/443 controle de voie on tjf.(RT2).
10941.2 Russian Mil,??? 1805 MS5 12 tone vocoder (3300Hz pilot). (MC)
10962 Unid: 1603 RTTY 100bd/850 (1 stopbit), Short crypto followed by reversals (MC)
10967 HBD20: MFA Berne, Switzerland 1620 ARQ P/L FF, active same time as 10969. (JD2)
10969 HBD20: MFA Berne, Switzerland 1620 ARQ w/very long 5LG msg. (JD2)
HBD20: Swiss MFA, Berne 1800 ARQ 5LGs (MC)
10972 British Mil,??? 2006 VFT: 7ch of 75bd/170 RATT, (6028 Config) crypto (MC)
10981.7 BAP40: Beijing Meteo 1131 RTTY 75/425 wx reports (EW)
10998.7 USAF Roosevelt Roads ? 1535 RTTY 75/850 Met trfc. No carrier when idle. Header contains "KAWN". Believed frequency day alternative to 3393.7 (DW) Unid: 1915 RTTY 75bd/850 AIREP data and WX from "KAWN" (MC)
11010 MKD: Royal Air Force, Akrotiri 1940 RTTY 75bd/850 "vv de mkd ryryryryr.... int zbz" (MC)
11018.8 GXQ: Royal Navy, Gibraltar 2032 VFT: 7ch of 50bd/170 Baudot, "test de gxq" (MC)
11032 French Embassy,??? 1131 FEC-A 192bd/400 opchat in FF (MC)
11037 RFGW***: French MFA, Paris 1644 FEC-A 192bd/400 Opchat in FF (MC)
11043 WJI***: Italian Intel, Rome 0719 ARQ-E 96bd/850 5LGs to CJL (Channel 40). (MC)
11043.7 RFTJD: FF Libreville GAB 0019 ARQ-E3 192/400 idling (RM)
11044 RFTJ: FF Dakar 1800 ARQ-E3 192 cdv (BvR)
11052.1 SPP???: Polish Embassy, Berne 0717 POL-ARQ 100bd/240 MSGs marked "m:berno" (MC)
11065 DoSC Moskva 1800 CROWD-36 40Bd+10Bd, IRS mode + op. chat (ANEU)
11072.4 P6Z***: French MFA, Paris 0718 FEC-A 192bd/400 Clg K4X (Embassy Tunis) (MC)
11080 SANA: Damascus, Syria 2000 RTTY 50/400 Nx in Arabic. (AB3)
11110.5 RFLI: FF Fort de France MRT 0022 ARQ-E3 192/400 idling (RM)
11114.5 Saudi Nat.Guard,??? 1600 ARS-GUARD 125bd/170 (MC)
11117 Russian Mil,??? 2035 81-81 81bd/230 tfc (MC)
11118 AFS: USAF AWS Omaha 1400 RTTY 75/850 2 stopbit synoptic wx. (RT2)
11133 Unid: 1123 FAX 120/576 very weak wx map (EW)
11137 Unid: 1123 FAX 120/576 very weak wx map (EW)
11146.5 French Diplo?,??? 1731 TT2300b 100bd tfc (MC)
11155.5 Unid 2248 RTTY 110/170 encrypted(RM)
11160.2 Unid: 0801 ?Unid 100/488 unable decode, not in Kling or my database? (RH2)
11162.7 ML10***: Algeria? 1617 FEC 5LGs CBRS mode ending "stop et fin", opchat FF. GF14***: Algeria? 1938 ARQ Short 5LGs to "ml10", selcals VVVX, VVVC (MC)
11163 German Diplo? 1738 RS-ARQ 228.7bd/170 tfc (MC)
11192 Unid: 1753 UNID 75bd/850 FSK UNID System, Short tfc ACF=0, reversals, period ACF=65 (MC)
11197.9 Unid: 1743 VFT: 7ch of 200bps OQPSK UNID System (MC)
11198 Many POR-NY stations 0727 PSK + LSB (11200 kHz) (ANEU)
11210.2 NATO Mil,??? 2016 Link-11, idle (MC)
11217 NATO Mil,??? 1956 Link-11 (MC)
11294.6 Egyptian MFA, Cairo 1847 ARQ ATU-80 MSGs to Abu Dhabi, Beirut & Tunis. (MC)
11405 HCZREKI***: UNHCR, Kinshasa 1930 PACTOR-U 200bd/200 MSGs in EE to "HCSWIGE" UNHCR Geneva. HCRWAKI***: UNHCR, Kigali 1922 PACTOR-U 200bd/200 MSGs in EE to "HCSWIGE" UNHCR Geneva (MC)
11410 PCW1: MFA Den Haag 0627 CW+SITOR-phasing signal (ANEU)
11421.7 FJY5: Iles Crozet 1218 ARQ-E3 96/400 signing off at tune-in (1218), contacts Paris. (FH)
11449.2 Russian Mil,??? 2111 MS5 12 tone vocoder (3300Hz pilot). (MC)
11459 Unid: 0755 RS-ARQ 228.7bd/150 tfc and ALIS bursts (MC)
11461.7 Egyptian Embassy,Abidjan 1811 ARQ ATU-80 MSGs marked "jg kysmqkg" to MFA Cairo (MC)
11464.2 Russian Mil,??? 1947 MS5 12 tone vocoder (3300Hz pilot). (MC)
11476 HMF52: Pyongyang 2130 RTTY EE nx // HMF36 on 13580 khz at 2130. 13580 stronger. (FH)
11490.7 Unid: 1328 PICCOLO off at 1328. (FH)
11500 Unid: 1132 RTTY 75bd/850 crypto (MC)

11515.2 Russian Mil,??? 1250 MS5 12 tone vocoder (3300Hz pilot). (MC)
11520 Unid: Ukraine 0703 CIS-14 96/500, QSX 12170 kHz, after KKKKK on channel a into pseudo#-bitstream on both channels (ANEU)
11523.2 Russian Mil,??? 1948 MS5 12 tone vocoder (3300Hz pilot). (MC)
11536 HMF49: KCNA Pyongyang, KRE 0815 RTTY 50/250 w/nx/EE. (RH2) HMF49: Pyongyang 0750 RTTY 50/250 KCNA Nx EE (AB3)
11629.3 Unid: 1357 RTTY 45/176 fox & other testing "this is a communications test message". (FH)
12124.2 DOR***: Bulgarian MFA,Sofia 1125 RTTY 75bd/500 Clg "ODK" (UNID Embassy) (MC)
12132 Unid: 1931 RS-ARQ 241bd 8 tone (MC)
12140 HWN: Paris 0200 RTTY 150/850 FF (ES)
12158.5 Unid: 1700 TT2300b 100bd idle (MC)
12159.2 MFA PYONGYANG 0735 RTTY 50/1000 Tfc in Korean p/l & in 5FG, encryption end "qru rt?" followed by Korean(?) cw. At 0753 46's (preceded by fig shifts) msg in Korean p/l.(DW)
12165 RKB78: Moscow Meteo 1105 FAX 90/576 wx map (EW)
12170 Unid: Ukraine 0703 CIS-14 96/500 QSX 11520 kHz, after KKKKK on channel a into pseudo#-bitstream on both channels (ANEU)
12170.5 MKD: Royal Air Force,Akrotiri 1923 VFT: 2 ch of Piccolo-6, "de mkd got u the dogs bollocks 555ers pal" (MC)
12170.9 MKD: Royal Air Force,Akrotiri 1924 VFT: 2ch of Piccolo-6, crypto tfc (MC)
12173 Russian Diplo,??? 1012 CROWD-36, tfc (MC)
12173.5 British Mil,??? 1822 Piccolo-12, crypto (MC)
12205 Unid: UTC? RTTY 75/850 1 stopbit encrypted.(RT2)
12208 OMZ66: MFA BRATISLAVA 0900 RTTY 100/400 ry's OMZ66 opening. Messages inc px in Slovak. At 0930 RTTY 100/400 Diplo news summary. (DW)
12220.5 British Mil,??? 1429 Piccolo-12, crypto (MC)
12261 GYU: Royal Navy, Gibraltar 1515 RTTY 75/850 de GYU CIP (Come In Please) INT ZBZ K on tape. (JD2)
12285.7 Egyptian MFA, Cairo 1653 ARQ Clg selcal "XBVC" (Embassy Vienna). (MC)
12299.7 British Mil?,??? 1504 VFT: 7ch of 75bd/170 RATT (6028 Config), crypto. (MC)
12333.2 Unid: ALG (?) 1711 RTTY 75/850, same crypto system as Algerian net on 16124 kHz, bit inversion (mask=31), armdhbymjoz crypto-sequence. (ANEU)
12397 GYA?: Northwood 2120 RTTY 100/850 RY's then VMGTCHJ BH, & encryption. (FH)
12412 DAN: Norddeich R. D 1930 ARQ + CW w/phsng sig & ID. Spur? (RM)
12414.5 Unid: 1631 RTTY 75 scramble (BvR)
12469.7 MFA Cairo 1400 ARQ sc tvvq (BvR)
12477 P3CR6: TH Akademikis Zavaritskis 0009 ARQ w/svc msg. login 00501 zava. (WT)
12477.5 C6LN5: MV Capricorn 1440 ARQ tlx to London (BvR)
12478 VRIM: BT Neptune 0055 ARQ tfc. (AB2) KNLO: SS Manukai 1715 ARQ w/amver/pr 3033n 13836w, eta hono. (WT)
12479 YJWZ7: M/V Melvana 1226 ARQ 74,973 DWT bulk carrier, w/BBXX wx obs. DEIP: M/V Hongkong Senator 1340 ARQ w/AMVER/PR, ETA Christobal. ELSI9: M/V Polar Columbia 1644 ARQ w/AMVER/PR. ELIG7: M/V Indian Ocean 1740 ARQ 10,600 DWT Liberian-flagged reefer (Ecuadorian Lines) w/AMVER/PR. KGDF: SS Mormacstar 1955 ARQ U.S.-flagged 40,499 DWT tanker w/login to receive MEBA Nx, login 10746 MORMAC. 3EIK8: M/V Atlantic Star 2128 ARQ w/tlx to Star Reefer London re container temps, login 42715 ASTR. (RB)
12479.5 9HHJ3: MV Makhachkala 1757 ARQ tlx tfc (BvR) YQGN: M/V Histria Star 1545 ARQ 54,615 DWT bulk carrier, w/posn tlx, 3646N/06047W, ETA Hampton Roads pilot, login 26677 YQGN. P3DQ4: M/V Pal Eagle 2129 ARQ Cyprus flagged 14,620 DWT dry cargo vsl, w/tlx re arrival Cristobal, login 26793 PALEGL. (RB) SQGK: Awior 0450 ARQ w/tlx. login 43187 sqgk. (WT)
12480.5 YQEP: M/V Birlad 1206 ARQ Roumanian 54,615 DWT bulk carrier w/tlx for ETA Baha Lancalt. TCJP: M/V Kale-1 1357 ARQ 26,931 DWT Turkish-flagged bulk carrier w/SVC+ service msg to Maritex-S. 9HNI3: M/V Dubrovnik 1638 ARQ 63,293 DWT bulk carrier w/tlx re obtaining bunkers at Cargill, login 26084 DUBR. N/A: M/V Raknes 2223 ARQ w/AMVER tfc vsl bound Nola to Charleston, login 26869 RAKNES. 9HIV4: M/V Nornes 2310 ARQ 6,258 DWT bulk carrier w/tlx re departed Moorehead City for

Montoir w/cargo of 5249,985 MT of Carolina natural phosphate, login 26828 NORNES. (RB) 9HWA4: M/V Grigoroussa I 0418 ARQ w/tlx to Athens. login 72050 grig. (WT)
12481 N/A: Esmeralda (BE-43) 2238 ARQ Chilean Navy four-masted training schooner, wkg Valpariso Radio w/mil tlx of 5LG's, wkg CBV using login 19006 ESME. (RB)
12482 OVYK2: Nadia J 0324 ARQ ETA Balboa, selcal 54500. (AB2) WOVS: SS Overseas Valdez 1620 ARQ 39,036 DWT products tanker, w/tlx for ETA Boston, login 11095 WOVS. (RB)
12483 3FYF5: Ansac Sincerity 0545 ARQ amver/pr, 5036n 14627w. login 71119 ansa. WEHV: SS Overseas Alaska 1702 ARQ w/eta Hinchenbrook. login 11084 wehv. (WT)
12484 ELRZ8: Joseph Lykes 1844 ARQ w/BBXX wx observation via DAN, login 25045 JOLY. (RB)
12485.5 TCKO: M/V Omer Kaptanoglu 1631 ARQ Turkish-flagged 34,607 DWT bulk carrier, w/tlx for 10 day notice for Dunkerque, login 65714 TCKO. (RB)
12486 WRYL: M/V Green Ridge 1850 ARQ U.S. flagged 12,891 DWT dry cargo ship, w/tlx for ETA "CHS" pilot in heavy seas, login 11974 WRYL. (RB)
12487 ESOZ: Apparatchik 1329 ARQ crew TG's. (AB2) KPPP: M/V Nobel Star 1720 ARQ w/AMVER/PR, vsl bound Port Canaveral, Fl to Ascension Island. UETV: M/V Socofi Trader 1810 ARQ Russian 6,262 DWT dry cargo ship, w/tlx re arrival Balboa, ETA Mississippi River, login 55954 UETV. ATPN: M/V Hargobind 1909 ARQ Indian-flagged 41,438 DWT bulk carrier (Shipping Corp India) w/tlx to ShipIndia for ETA S.W. Passage sea buoy, login 23590 HRGD. KNFD: ARCO Texas 1930 ARQ 91,393 DWT tanker, w/AMVER, posn 2040N/07947W. (RB)
12487.5 C6HZ9: MC Emerald/Singapore (both names used) 1333 ARQ tlx for spare parts. (AB) ELOW3: M/V ST. Petersburg Senator 0405 ARQ w/tlx. (WT)
12489 UINM: Anatoliy Kolesnichenko 1238 ARQ crew TG's. (AB2)
12490 NGKK: USNS Pathfinder 1158 ARQ (T-AGS-60) Pathfinder-class surveying vsl w/BBXX wx obs via NMN. (RB)
12490.5 MVDX7: M/V Maersk Dorset 1217 ARQ 99,800 DWT tanker (Maersk Co), w/BBXX wx observation. 9HNW4: M/V Imperial 1600 ARQ 68,676 DWT bulk carrier, w/tlx for ETA Victoria pilot station, login 22099 IMPR. VTFF: M/V Maratha Mission 2155 ARQ 76,905 DWT bulk carrier, w/posn, 1343N/09637W. (RB)
12492 EQPX: MV Iran Ghoddosi 1752 ARQ sc mcpv co/ch a9m. EQJO: MV Iran 1827 ARQ sadoughi tlx tfc via a9m (BvR)
12492.5 Fv Coimbra 1745 ARQ clg OPR+? ship 51816 (BvR)
12493.5 P3FA5: M/V Nirvana 1628 ARQ Cyprus flagged 35,529 DWT bulk carrier, w/tlx to Bravmar Athens. (RB) P3PC3: M/V Iktinos 2345 ARQ w/tlx, eta Balboa. (WT)
12494 PESF: MV Holland Klipper 1028 ARQ pos rpt 120 m zzw Cadiz (BvR) P3GW6: M/V Mor Canada 2230 ARQ 14,490 DWT container ship w/tlx tfc. (RB)
12495 UICJ: TK Pobeda 2155 ARQ Russian flagged 67,999 DWT tanker (NovoShip) w/admin tlx to Novorossiysk Radio from master KM Veretenichev, login 54834 UICJ. (RB)
12495.5 SQEB: M/V Huta Zgoda 2216 ARQ Polish-flagged 14,176 DWT bulk carrier (Shortramp/Polstream) logging off after getting msg, login 43262 SQEB. (RB) SQRH: Atria 0410 ARQ w/tlx. login 43122 sqrh. SNVP: M/T Foka 0432 ARQ w/tg's in pp. login 43291 snvp. (WT)
12496 VCLM: M/V Arctic 1211 ARQ w/BBXX meteo obs via Canadian CG, Halifax. (RB)
12496.5 3FDQ3: La Bonita 2337 ARQ w/AMVER/PR, ETA Yokohama, Japan, vsl is 22,308 DWT container ship. (RB)
12498.5 ZSUY: MV S.A. Waterberg 1832 ARQ obs to meteo Pretoria via zsc63. (BvR)
12500 IBJG: M/V Orinoco 2221 ARQ w/tlx to Itamar, Genova re ETA Valparaiso. (RB)
12501.5 UNID: M/T Antiparos 0508 ARQ w/tlx, anchored Puerto Miranda Roads? login 16755 antp. (WT)
12502 P3TJ2: M/V Tilemahos 1746 ARQ Cyprus flagged 34,203 DWT bulk carrier w/tlx re bound to loadport, Galveston. ATSR: M/V Rani Padmini 2210 ARQ 96,384 DWT bulk grain carrier w/tlx to Ship India w/posn 2943N/04018W, ETA SW passage. (RB)
12503.5 ELMW4: M/V Clarisse Venture 1656 ARQ 60,985 DWT bulk carrier, w/posn

3205N/07319W, via WLO, login 25002 ELMW4. OWGU2: Charlotte SIF 2330 USB 4,486 DWT dry cargo vsl, w/admin tlx's, vsl has cargo of 4200 steel billets, login 85375 OWGU2. (RB)
12505 WMLH: M/V Tillie Lykes 1707 ARQ U.S. flagged 37,167 DWT container ship (Lykes Bros) w/posn tlx 3355N/07647W. KNCX: SS Chelsea 1835 ARQ w/tlx re departed Port Everglades, ETA Aransas Pass, login 10725 KCNX. (RB)
12508 3ELF9: M/V Doctor Lykes 1643 ARQ w/noon report tlx, posn 3855N/07406W, ETA Ambrose pilot. YLBR: TK Klements Gotvalds 2150 ARQ Latvian 39,810 DWT tanker w/req for times of wx broadcasts from master, KMD Safannov. P3LT5: M/V Velos 2232 ARQ 61,520 DWT bulk carrier w/tlx to Oceanroutes San Francisco re arrival Rio Grande, ETA Paranagua, B. (RB)
12510 J8GY4: M/V Western Falcon 0715 ARQ w/tlx for ETA Vancouver, this is app the ex-Spraynes. C6LU6: M/V Swan Hill 1724 ARQ 27,146 DWT bulk carrier (Swan Shipping) w/posn 4293N/6425W, ETA "Three Rivers", login 26824 SWAHIL. SXLS: M/V Sporades 2121 ARQ 66,895 DWT tanker w/list of supplies needed at Nola, login 17047 SPOR. P3LZ4: M/V Amami 2305 ARQ 40069 DWT bulk carrier w/loading rotation report tlx, login 56373 AMAMI. (RB)
12512.5 USEZ: TKH Znamya Oktyabrya 1635 ARQ w/login for msg ck, login 54850 USEZ, later sending crew TG's via Mariupol Radio. URMA: TKH Skvortsov Stepanov 2120 ARQ Ukraian 7,347 DWT dry cargo ship, w/admin msgs to Mariupol Radio from master KM Krotenko. URCM: TKH Dobrush 2359 ARQ 28,160 DWT Ukrainian bulk carrier w/posn 6556N/11215W, crew TG's (MRU/UMF) via USU. (RB)
12523 YLBY: TR Akademikis Artobolevskis 2039 ARQ Latvian reefer/carrier w/posn report to Riga Radio, 1820N/06747W. (RB)
12557 TCLR: MV Kekova 1823 ARQ clg TAH (BvR)
12561.5 UWHG: TSM ORLIK 0929 RTTY 50/170 admin from Km Sviridov to UIW. UAMB: BMRT KOKAND 0804 RTTY 50/170 crew TGs via UIW. UCDR: TKH IVAN SKURIDIN 0735 RTTY 50/170 tfc for Kholmsk via UAT. (vsl may be ex J8HL8/UVEK but used UCDR in tape). (HOOD)
12562 UBKT: BMRT Vozrozhdenie 1835 RTTY 50/170 Russian long range/endurance large freezer/trawler w/raboty (wx) report from master KM Boluchevnskiy. USRV: BATM Marshal Yeremenko 2055 RTTY in 50/170 admin tfc to Murmansk Sevryb using hull#/ID MA-0064. (RB)
12562.5 UNDE: TSM OSTROVETS 0932 RTTY 50/170 crew TGs to UIW. UBCI: RTMKS KURSKAYA KOSA 0712 RTTY 50/170 crew TGs to UIW. (HOOD) YLGL: TR Selderi 1815 RTTY 50/170, Latvian 12,280 DWT reefer (Riga RTF) in RYRY/DE to UIW, & w/admin tfc. ESMI: TR Bukhta Omega 1948 RTTY 50/170 Estonian reefer/fish carrier w/RYRY/DE to URL, Sevastopol Radio, & w/crew TG's (SVS/MRH), app is ex-UQYR. (RB)
12563.5 MV Bolero 1625 ARQ tlx to Venice via sab, ship 29645 swe no. MV Camb 1404 ARQ x pos rpt ship no (swe) 29469 (BvR)
12564 UFAA: BATM Aleksey Generalov 2156 RTTY 50/170, Russian long range/endurance large autonomous trawler, w/TG's to Murmansk using hull#/ID MA-0062. (RB)
12564.5 ELRA3: MTR STARLETTE 1 0937 RTTY 50/170 admin from Km Bubnov to UIW. (HOOD)
12565.5 UAYM: LEONID YELKIN (MB-0008) 0725 RTTY 50/170 RYs to UDK2 - no joy. Vsl is ex UYKD. (HOOD) UNCH: BMRT Gazgan 2213 RTTY 50/170 long range/endurance large freezer/factory trawler, w/fish catch report (NVR/MRH) & C54 report, from master KMD Guskhtshin after RYRY/DE. (RB)
12566 UFNH: BMRT VLADIMIR BRODYUK 0945 RTTY 50/170 admin from Km Tsuranov using hull number MB-0021 to UDK2. (HOOD) UWOA: BMRT Tsemesskaya Bukhata 1858 RTTY in 50/170 crew TG's (NVR/KRH). UHCF: BMRT Novoukrainka 2100 RTTY 50/170 w/admin tfc to Kerch from master KM Kuniche. (RB)
12567 USUR: TKH CHELEKENSKIY 0649 RTTY 50/170 msg to Krasnovodsk via UGC. The RY tape was reversed as "RUSU ED CGU". YLKK: TKH MANGALSALA 0933 RTTY 50/170 crew TG to Kaliningrad via UAT Moscow Radio. YLEK: KARLIS BUDE (BMRT 490) 0720 RTTY 50/170 admin to RIGAS ZWEJNIECIBA from Km Shchevbina via UQK. (HOOD)
12568 N/A: MB-0007 0941 RTTY 50/170 admin to MURMANSK BVC SEVRYBA via UDK2. (HOOD) (I show this as UPSP, BMRT Nikolay (or Ivan) Zakorkin -RD)
12569 N/A: MB-0015 0934 RTTY 50/170 crew TGS and admin to MURMANRYBPROM

from Km Voytikh via UDK2. (HOOD) (I show this as UHLW, BMRT Leonid Novospasskiy -RD) UGMS: BMRT Kapitan Smelov 2135 RTTY 100/170 Russian long range/endurance large freezer/factory fishing trawler w/admin TG's for berthing Las Palmas in somewhat rare 100 baud, note change from "RTMS" designation to BMRT. UCSA: RTMS Eysk 2159 RTTY 50/170, Russian super fishing trawler/super freezer, w/fish catch/hold report w/fish in tons, fol by C54 report to Novorossiysk Radio from master KM Bezborodov. (RB)
12570 UAYQ: SERGEY MAKAREVICH (MB-0017) 0926 RTTY 50/170 admin to MURMANRYBPROM via UDK2. Vsl is ex UYAC. (HOOD)
12570.5 USJZ: PB Sergey Vasilisin 2123 RTTY 50/170 crew TG's to Murmansk Radio (MRM/KRH). (RB)
12572.5 EOJF: RTMS BAGRATIONOVSK 0729 RTTY 50/170 admin from Km Pankov to UIW. Vsl c/s in ITU is UAME but old call in RY tape. (HOOD)
UUUB: RKTS Marshal Sudets 2110 RTTY 50/170 w/admin TG from master KM Kazurov, also sends tfc for UZNV, RKTS Konstructor Kovliv to Interryflot from KM Kracha. UNNI: RTMS Chernyashev 2218 RTTY in 50/170 admin TG's to K-grad (KLD/MRH) from master KM Maryev. USYQ: PB Baltiyskaya Slavia 2254 RTTY 50/170 Ukrainian 'floating base' or Plavuchaya Baza (PB), w/TG's to K-grad. (RB) SQGX: M/T Otol 0017 ARQ wkg spw Warsaw, w/tlx in pp. (WT)
12573.5 UYTB: RTMKS Rybak-1 2303 RTTY 50/170 Ukrainian Super stern ramped fishing trawler/freezer w/admin tfc to Kaliningrad from master. (RB)
12574 UVEZ: RTMKS Leonid Galchenko 2110 RTTY 50/170 crew TG's using hull ID MA-1821 after RYRY/DE to UDK2. UQQT: RTMKS Paval Kutakhov 2134 RTTY 50/170, w/admin TG's using hull ID MA-0019 (MRM/KRH) to Murmansk BVC from KMD Gutskalov. (RB)
12574.9 EMJW: SOVSHIP "NOVODRUTSK" 0820 RTTY 50/170 w/Vladivostok. (RH2)
12576 USXH: TKH IVAN PROKHOROV 0930 RTTY 50/170 admin to Izmail from Km Katan via USO5. Vsl is ex UGWS. (HOOD)
12577 GMDSS FREQUENCY 1140 GMDSS 100/170 4 packets. Lyngby Radio clg itself. Unid British ship (233599000) clg Lyngby for apparent test. (DW) P3CK6: M/T Ojars Vacietis 2307 ARQ 16,400 DWT tanker w/QSL for SVC-1. (RB)
12578.9 UFZ: Vladivostok R, RUS 0830 RTTY 50/170 w/tfc for various ships. (RH2)
12579 KFS 1203 0318 ARQ NRV Guam Several msgs including one to a Japanese crew. Very good signal strength here in Mich (LB2) (KFS 1203 would be Palo Alto Radio 'KFS' on Ch.1203 12580.5 not NRV...LOGS)
NMF: USCG Boston, Ma UTC? FEC wx/hydrolant/fax schedule s-7.(RT2)
9VG80: Singapore Radio 1532 tlx tfc (BvR)
12580.5 KFS: San Fran Calif 1320 FEC 100/170 Ch 1203 ships tfc. (RT2)
12583 HPP: Panama Intelmar Radio, 0320 ARQ selcalls MQIS, RERE, VBUY, then CW ID w/"HPP MTX" for maritex service ID. (RB)
12587 EAD: Madrid 0100 FEC w/traffic list of calls waiting. New. (FH)
12593 KFS: Palo Alto Radio, Ca 1813 ARQ sending selcall TPMV (00540), then FMVU (38402), which is M/V Sonja B., V2GT. (RB)
12593.5 9VG: Singapore 1240 ARQ w/ready signal, CW ID. (FH)
12597 SPB: Szczecin radio 1305 FEC tfc lst (BvR)
12598 SPA: Gdynia Radio 1650 FEC tfc lst (BvR)
12601 IAR: Rome 2140 ARQ w/ready signal, CW ID. (FH)
12602.5 IAR: Rome Radio 1449 ARQ ww ICUT ship 20795 (BvR)
12603.5 SVS: ATHENS RADIO 1318 CW Marker "de SVS" and tuning mark. (DW)
12607.5 WNU: Slidell Radio, La, US 0116 ARQ w/"Globe" unique sitor free signal. (RB)
12610.5 VCT: Grand Banks Radio, CAN 0110 FEC w/tfc list. (RB)
12615 USU: Mariupol Radio, UKR 0003 ARQ wkg URCM, TKH Dobrush, w/msgs to 0018. (RB)
12621.7 Unid: Coastal station 1900 ARQ SS to ship, logged previously 2200. (FH)
12623 Unid: Coastal station 1856 FEC also 2200. (FH)
12625.5 UCE: ARKHANGELSK RADIO 0715 ARQ tfc to TKH MIKHAIL CHEREMNYKH using new call UCMQ (ex UJDR) and 0730 ARQ tfc to UWGB: TKH PLESETSK. This vsl c/s changed to UCNM in ITU but still using old call. (HOOD)
12632.5 UGC: St. Petersburg radio 1550 ARQ tfc to uyoq (BvR)
12647 LPD: GENERAL PACHECO RADIO 1753 FEC Marker "LPD" & tuning bursts. Tfc list in fec for ARQ service at 1903z advises qsx in 4 8 12 and 22 mhz. (DW)

12649.5 XSG: Shanghai radio 1738 ARQ cw marker (BvR)
12661.5 UMV: Murmansk radio 1511 RTTY 50 ryryryry (BvR)
12697 UTW: 1505 RTTY 50 (BvR) (Mariupol Radio -LOGS)
12730 NMC: 0355 FAX USCG Point Reyes, CA w/500mb Analysis (MS5)
12835 USAF 1330 RTTY 75/850 w/KAWN wx messages in abbrev EE. (FH)
12858.6 KPH: SAN FRANCISCO R, USA 1500 FEC w/charges & tfc list. (RH2)
12920 BJZ: Wuhan Meteo CHN 0900 RTTY 75/425 wi CQ DE BJZ20/21/22/23/24/25 RY..S 12345 67890 and synoptic wx (ML2)
12921.1 MGJ: London 1730 RTTY 75/400 availability pattern. (FH) (MGJ is the Royal Navy sub base at Faslane, Scotland -LOGS)
12942 RKLM: ARKHANGELSK RADIO 2014 CW Marker "4LY de RKLM qsx 8367.5/12551.5 k". (DW)
12962.7 CSS: Santiago 1600/1730 RTTY 100/850 wx in SS from "CEMMETEOVIRMA" to YMZU meteomag "MARITLOS VALP", so YMZU location indicator must be in Valparaiso. CSS formerly 12961.5. (FH)
13031.2 FUF: FN Fort De France UTC? RTTY 75/756 RY/SG/0-10 one stopbit. (RT2)
13042.5 FUV: Jibuti 0200 RTTY 75/850 VVV de FUV, strong. (FH)
13365.6 Unid: 1245 PICCOLO. (FH)
13376.5 RETZCP**: Guardia Civil, Las Palmas 1126 ARQ 100bd/400 clg "TXXX" (MC)
13379.7 Japanese Embassy,??? 1635 ARQ Calling selcal "BQQQ" then short opchat. (MC)
13385 Unid: 0810 F1B RTTY 75/170 10 bit asynchronous system, not ASCII, not ITA-2 (ANEU)
13425.2 Unid: 2010 ARQ idle (MC)
13437 RPFN***: Portuguese Navy, Lisbon 1459 RTTY 50bd/850 "rpti de rpfn ryryry... from all the bottles in..." (MC)
13440 YZI235: TANJUG News, Belgrade 1136 RTTY 50bd/400 NX in EE (MC)
13501.7 GYA?: Northwood 1417 RTTY 100/850 RY's then VMGTCHJ BH, & encryption. (FH)
13506.7 Egyptian MFA,Tripoli 1005 ARQ 5LGs "from boustan tripoli" (MC)
13508.2 Unid: 1630 PICCOLO unable decode. (RH2)
13510 CFH: Halifax, NS, CAN UTC? RTTY 75/571 wx 1.5 stopbit went to wefax at 1900. (RT2)
13515 MKD: RAF Akrotiri, Cyp UTC? VFT 50/356 very weak. (RT2)
13536.2 Russian Mil,??? 0747 MS5 12 tone vocoder (3300Hz pilot). (MC)
13545.2 PCW1: Dutch MFA, DenHaag 1809 ARQ w/CW "pcw1" marker plus SITOR phasing bursts. (MC)
13580 HMF36: Pyongyang 2130 RTTY 50/250 RY's then APA nx starts// HMF52 on 11476. 13580 stronger. (FH)
13580 Unid: 2002 VFT 2ch VFT Picc 6tone both stdby (KN)
13593.7 RFFA: MOD Paris, F 0038 ARQ-E3 192/363 controle de voie tfc (RT2)
13597 JMH4: Tokyo Meteo 1055 FAX 120/576 wx map (EW)
13665.2 6VU73: Dakar 1652 RTTY 50/170 meteo msgs, CQ's/RY's, then "DEBUT OUVERTURE SELECTION". (FH) (13665.3) 6VU73: Dakar, SEN 1930 RTTY 50/750 wx for various African locations. (JD2)
13737.4 5YD: AFTN Nairobi, Kenya 1645 RTTY 50/400 test tape only. (JD2)
13816 SPT443: POL-MIL Warszawa (?) 0700 RTTY 50Bd/500 PAP-news to SPF219 (possibly POL-UN forces Golan Heights) + CW (ANEU)
13845 Russian Diplo,??? 1400 CROWD-36, tfc (MC)
13852.2 Unid: 1704 MS5 12 tone vocoder (3300Hz pilot) (MC)
13853 'V5G': MFA Bucharest 1340 ROU-FEC 164.48/495, circular messages w/bit inversion. (ANEU)
13857 Russian Diplo,??? 0727 CROWD-36, tfc (MC)
13877 DoSC Moscow 0700 RTTY 75/500 ry + messages to 'RAU' (ANEU)
13894 Unid: 0729 RS-ARQ 240.1bd 8 tone tfc (MC)
13896.5 Unid: 1131 RS-ARQ 228.7bd/170 tfc (MC)
13903 BND,D 1038 ARQ-E 96bd Encrypted traffic (AB)
13942 Russian Diplo,??? 1533 CROWD-36, crypto (MC)
13966.4 ICRC,Khartoum 1108 PACTOR-I1 200bd/200 MSGs to Geneva in EE. ICRC, Tbilisi 1042 PACTOR-I1 200bd/200 MSGs to Geneva in EE (MC)
13974.4 ICRC,Geneva 0816 PACTOR-I1 200bd/200 MSGs in EE & FF to Uganda. (MC)
13985 Russian Mil,??? 1512 81-81 40.5bd/500 tfc (MC)
13995.9 Unid: 1250 RTTY 50/250 "BAR 1/148 BAR BAR BAR 1/148, RY's, then 5LG's. At 1305 off w/QRU SK, quite strong, suspect Havana. (FH) (Ary sez yes, SOUD Havana, Cuba w/msg to "BAR" -LOGS)
14001 DE ZYD11 SXTDIS PARA ERMBRA 1535 RTTY 50/850 GR 50 DGMM-550 A CAPITULO 7 A EXERCISE, many repeats of the exercise by Brazilian

ZYD11 1535 to 1550, another day see 15929. (FH)
14066 Russian Mil,??? 1457 UNID 75bd/250 UNID FSK System (MC)
14367 BAF8: Xinhua Beijing 1053 RTTY 75/425 EE nx (EW)
14367 BZT54: 1220 RTTY 75/400 Xinhua Yuryumqi CHN nx/EE (RM)
14382.4 GXQ: British Army,London 1020 VFT: 4ch of 50bd/170 Baudot (6028 Config), "iryiry test de gxq" (MC)
14387.6 British Mil,??? 1955 Piccolo-12, crypto (MC)
14388 DOR***: Bulgarian MFA,Sofia 1948 RTTY 75bd/500 NX in Bulgarian (MC)
14393 'DOR': MFA Sofia 1950 RTTY 75/500, tfc to 'PMO', Washington (ANEU)
14405 HCSWIGE***: UNHCR,Geneva 1120 PACTOR-U 200bd/200 Mailbox msgs. HCTOGLO***: UNHCR,Lome 1914 PACTOR-U 100bd/200 MSGs to HCSWIGE (Geneva) (MC)
14421.3 Unid: 1204 PACTOR 200bd/200 UNID sub-mode (MC)
UNHCR Lyon 0900 PACTOR-I1 200 wkg Baghdad, Moscow til 1130 (ANEE)
14429 Zairean PTT,Lubumbashi 1814 ARQ Calling selcal VQQK (MC)
14438 FCN: 1055 ARQ-E3 96/380 Ops chatting in FF w/"FCN DE BRN" & wishing each other "BON SOIREE". Off air at 1100. (PT)
14447 MKK: Royal Air Force, London 1022 VFT: 7ch of 50bd/170 Baudot (6028 Config), "iryiry test de mkk" (MC)
14449.2 CLP1: MFA Havana CUB 1415 RTTY 100/464 w/circulars in EE & SS re an ICAO Council investigative report allegedly taking sides with the U.S. in the downing of two Brothers to the Rescue aircraft by the Cuban Air Force a few months ago. (RM)
14461.7 Unid: 1633 ARQ Opchat in EE ends "no tks and khudaf hzif hafiz" (MC)
14467.3 DDH8: Hamburg Meteo 1812 RTTY 50/500 wx tfc (DG) DDH8: Hamburg Met, Germany 1528 RTTY 50bd/400 "ry...ry cq cq cq de ddh47/ddh8/ddh9" ID. (MC)
14479.5 CSY: SANTA MARIA AIR, AZR 1210 RTTY 50/850 w/aero tfc msgs. (RH2)
14481.7 RFTJ: FF Dakar 1700 ARQ-E3 48/400 idling (DG)
14497.5 CSY: Santa Maria Air,Portugal 0802 RTTY 50bd/850 "ryryry de csy csy csy" marker (MC)
14502 Unid: 1815 VFT 2ch VFT Picc 6tone 0.51 "5 min spal ok kilo" 0.91 stdby still active (KN)
14506.7 Egyptian MFA,Cairo 0810 ARQ Calling selcal "TVVS" (MC)
Egyptian Emb Beijing 0910 ARQ w/ATU-80 msgs (ML2)
14508 DIPL***: French MFA,Paris 1154 ARQ6-90 200bd/400 "237 to 307 tks om 73/88 ar ar end" (MC)
14510.5 MKK: Royal Air Force,London 1551 VFT: 3ch of Piccolo-6, eng ch "de mkk nearly all ad middle east qrm" (MC)
14510.9 MKK: Royal Air Force,London 1552 VFT: 3ch of Piccolo-6, idle (MC)
14511.3 MKK: Royal Air Force,London 1355 VFT: 3ch of Piccolo-6, crypto (MC)
14518 OEC54: Austrian Embassy,??? 0721 ARQ-S 96bd/170 Opchat to MFA Vienna. OEC100: Austrian MFA,Vienna 0720 ARQ-S 96bd/170 Opchat to OEC54 (MC)
14523 MFA Vienna 0632 SI-FEC 96 calling UNID embassy also SI-ARQ 96 tfc. (ANEU)
14530 DIPL***: French MFA,Paris 1626 ARQ6-90 200bd/400 idle in IRS mode. (MC)
14531.1 AGA3BM: 1546 PACKET AMMARS sta to AFA2FK AFA1NC to AFA2FK (RM)
14545 O6P: French Emb Riyadh ARS 0840 FEC-A 192/425 clg,w/test tape,to Paris, no tfc (ML2)
14565 'Elefante': ITALMIL Roma 0640 PSK 1200 w/USB op chat. (ANEU)
14573 Unid: 0825 FAX 120/576 poor quality wx map (EW)
14593 Unid: 2010 VFT 2ch Picc 6tone 0.91 crypto 0.51 stdby. Unid: 2005 VFT 2cj VFT Picc 6tone 0.51 & 0.91 both crypto. (KN)
14606.7 RFHI: FF Noumea New Caledonia 0818 ARQ-E3 100/425 idle (EW)
14607.8 PWCO: unid, Brazilian ship? 1310 RTTY 75/1000 RY's to PWN33, Natal Naval, then used two-letter calls "PN de CO" repeating. (FH)
14626 CZM: Maritime Air Group Halifax NS CAN. 1607 FAX 120/576 w/wx chart. QRT 1617. Miserable QRM from RFLI's strong ARQ-E3 xmsn on 14626.7. This sta. is rarely heard. Was logged Aug. 9. Last logging by me prior to this was Aug. 22 1995. (RM)
14636.5 RETxxx***: Guardia Civil,Spain 1904 ARQ 100bd/400 ends "cfm cfm" (MC)
14643.5 British Mil,??? 1945 VFT: 2ch of Piccolo-6, eng. ch idle (MC)
14643.9 British Mil,??? 1946 VFT: 2 ch of Piccolo-6, crypto (MC)
14664 Unid 1353 RTTY 50/170 encrypted. +CW w/3AN grp msg that ends w/TTT TTT & back to RTTY. At 1558 also. (RM)
14675.5 French Diplo?,??? 1825 TT2300b 100bd idle (MC)
14675.6 Japanese MFA,Tokyo 1630 ARQ Clg selcal "BCVC" (Embassy Conakry). (MC)

14677 DFZG***: Serbian MFA,Belgrade 1959 RTTY 75bd/400 crypto after "abababababab" (MC)
14690 GYU: RN Gibraltar 1752 RTTY 75/850 testing (DG)
14692.5 JMJ 4: Tokyo Meteo 0823 FAX 120/576 wx map (EW)
14703.7 Unid: Germany 1230 (VFT)3xFEC-A-96/85, 5LGs on all 3 channels, same station as on 14430.7 (ANEU)
14719 OST: Ostend Radio Belgium 0820 FEC tfc list (EW)
14722.1 Unid: 1445 UNID 150 bd/850 UNID FSK System, sync, No ACF (MC)
14742.5 Unid: 0813 RTTY 50/850 very weak signal. poss fr. text (EW)
14759.3 RFQP: FF Jibuti 1705 ARQ-E3 200/400 CdeV (DG)
14780 Unid: 0854 RTTY 75 E Eur nx (BvR)
14794 Russian Mil,??? 1134 81-81 81bd/500 tfc (MC)
14799.3 Unid: 0850 RTTY 150 encrypted (BvR)
14801.7 RFVI: FF Le Port Reunion 0802 ARQ-E3 100/425 idle (EW)
Unid: 1230 RTTY 50/400 strong in unid language, strong to slowly fading, gone by 1325, a sentence repeating for over an hour. The 2 French Military stations usually here not in evidence. (FH)
14806.7 Egyptian MFA,Cairo 1608 ARQ ATU-80 MSGs to Tunis, Beirut, Riyahd etc. (MC)
14809.9 OMZ: Slovak MFA,Bratislava 0712 RTTY 100bd/400 NX and diplo circulars in Czech (MC)
14820 DoSC Moskva 1555 Mazielka 6-tone calling EWZ42, no joy (ANEU)
14831.9 IIEX***: Italian???,??? 0815 PACKET 300bd MSGs to BBS (MC)
14850 Unid: 0843 RTTY 75 E Eur nx or mgs (BvR)
14855.3 DOR: Mfa Sofia 0831 RTTY 150 ryryryry mgs to var emb. (BvR)
14881.7 Egyptian MFA, Cairo 1948 ARQ ATU-80 tfc (MC)
14894 Russian Mil,??? 1446 81-81 81bd/450 tfc (MC)
14909.7 Egyptian Embassy,Tunis 1116 ARQ ATU-80 MSGs "jg hlgp" to MFA Cairo. (MC)
14912 DFZG: MFA Belgrade,YUG 1413 RTTY 75bd Nx. (AB)
14912.5 SOO291: PAP NX Warsaw 1745 FEC pp nx (DG)
SOO291B: PAP,Warsaw 1426 FEC Sport & NX in Polish (MC)
14923 Xinhua Beijing 0747 RTTY 75/850 EE nx (EW)
BAP44: Beijing 0745 RTTY 75/850 Xinhua Nx EE (AB3)
14926.7 [RFTJ]: FF DAKAR 1448 ARQ-E3 192/400 8rc. Betas. No tfc. Fading.(DW)
14927.6 RFFAB***: French MOD,Paris 1421 ARQ-E3 192bd/400 5LGs (MC)
14943.7 Egyptian MFA, Cairo 1119 ARQ selcalling "KKVB" (Embassy Addis Ababa). (MC)
14970.4 MFA STOCKHOLM 0839 ARQ-SWED 100/400 22chb. Tfc in Swedish to Ankara (Svensk Ankara). (DW)
15021 AFE: Cape Canaveral, FL 1320 RTTY 75/850 encryption as usual. (FH)
15022.8 Unid: 1430 RTTY 75/853. (RT2)
15026.7 Egyptian MFA,Cairo 1248 ARQ ATU-80 MSGs to various embassies (MC)
15318.5 BAA.. Beijing Meteo 0900 RTTY 50/850 w/id tape & synoptic wx (ML2)
15636.7 RFTJ: Dakar 2013 ARQ-E3 200/400 idle, C.I. DKJ to Jibuti (see 19145.7 also). (FH)
15636.7 RFTJ: FF Dakar SEN 0840 ARQ-E3 200/400 w/C de V to RFQP cct id DKJ. (ML2)
15647.2 PCW: The Hague? 1855 ARQ Dutch msgs to 1900, idle to 1930. Other times Twinplex. (FH) (yes this should be PCW1 -LOGS)
15652 SNN299: MFA Warsaw 1233 POL-ARQ 100 5 fgs (BvR)
15662 Unid: 0745 RTTY 100/850 encr text (EW)
15701.7 Chinese Diplo,??? 0730 4+4, idle (MC)
15721.5 CJL***: Israeli Intel,Jerusalem 0720 ARQ-E 96bd/340 5LGs and opchat to CJL (QSX 13387kHz) (MC)
15724 DoSC Moskva 0829 RTTY 75/500 link ID 80038 w/5LGs to 'RPO' (ANEU)
15729 PCW: Dutch MFA,DenHaag 0749 TWINPLEX-4W 100bd/170 5LGs "van: buza aan: kwe" (MC)
15729.3 PCW1: MFA Den Haag 1502 ARQ " 30520 buza nl +? " (BvR)
15743 Hanoi 1000 RTTY 50/425 VNA press -Nx in FF (MS4)
15770 Deutsche Welle relais Trincomalee 0821 RTTY 100 ryryryryryryry (BvR)
Deutsche Welle,Trincomalee 0809 RTTY 100bd/300 "ryry deutsche welle relias trincomalee sri lanka" (MC)
15772 SPT443: POL-MIL Warszawa(?) 0700 RTTY 50/500 PAP-NX to SPF219 (ANEU)
15790.2 Unid: 0915 FAX 120/576 euro wx faxes (DG)
15801.5 Indonesian Emb Bangkok THA 0200 ARQ w/msgs ex Bangkok & Yangon (ML2)
15811.7 Italian Diplo/Mil,??? 0754 UNID 1200bps FSK UNID System, opchat in USB voice (MC)

15821.9 SAM: MFA Stockholm,S 1405 SWED-ARQ 100bd Messages (AB)
15832.9 V5G***: Romanian MFA,Bucharest 1450 ROU-FEC 164.5bd/400 Passport requests (MC)
15834 Unid: 0740 81-81 unk (EW)
15845 GYA?: Northwood 1350 RTTY 100/850 RY's then encryption starting w/VMGTCHJ BH. (FH)
15847 TAD: Turkish MFA, Ankara 0908 FEC-A 144bd/850 5LGs and MSGs in TT to Lagos, Riyahd (MC)
15858.5 Unid 1700 ARQ-E 96 Unid. German diplo w/encryption. Many total fadeouts (RM)
15860 RFFX: MOD Paris, F 1020 ARQ-E 96 idle (MS4)
15861.7 RFFXCCS: Centrans Favieres 1200 ARQ-E 96 wkg RFFXIW, Centrans Bangui w/ckt tests, propagation reports and ionospheric activity reports (ANEE) Unid: 1057 ARQ-E 96/400 idling (DG) RFFXCCS: 0750 ARQ-E 96/400 Favieres F w/le bricks tape & ZFQ (freq shift) msg to RFFXIW ccd id XXW (ML2)
15861.9 SAM: Mfa Stockholm 1118 SWED-ARQ 100 clr tfc. At 1230, irs mode. (BvR)
15915.5 British Mil,??? 1136 Piccolo-12. crypto (MC)
15918.7 CFH: Halifax, NS, CAN 1500 RTTY 75/1280 usually 75/850 here. (FH)
15920 8WD: MFA Delhi, India 1050 RTTY 50/425 test tape "this is the time for all good men to come to the??? nation" followed by encrypted message to Indian Emb Moscow, 5LG. (MS4) ("...for all good men to come to the aid of their country" is a quote by Thomas Jefferson, 3rd President of the U.S. & U.S. Declaration of Independence signer...odd to find it on an Indian MFA tape! -LOGS)
15928.2 Italian Diplo/Mil,??? 1202 FSK 1200bd opchat in USB voice. (MC)
15929.7 ERMBRA (probably PWX33) 1330 RTTY 75/850 series of 25 msgs in PP to ZYD13 in military exercises, then repeat of msgs. (FH)
15942 MFA Bratislava,SVK 0950 RTTY 100bd Nx. (AB)
15969.2 San Jose' 1345 ARQ Dutch embassy idling. (FH)
15986.5 CLP1: Havana 1245 RTTY 50/500 w/SS typical "we shall overcome" soliloquy. (FH)
16013 CLP44: Harare 1320 RTTY 75/500 relaying EMBACUBA COREA msgs in SS to CLP1, Havana. (FH)
16019.5 Unid 1328/1559 ALIS 228.5/170 W-4100 can't decode this mode. (RM)
16031 CLP1: Havana 1322 RTTY 75/480 w/EE nx to 1325, the to CW to supply corrections, etc. (FH)
16035 Kyodo Japan 0735 FAX 60/576 text in JJ. (EW)
16042 AAA3USA: (Ft. Meade Md.) 1200 PACKET USA MARS clg AEM1USA (Heidelberg Germany) (RM)
16062.7 Egyptian Embassy,??? 1418 ARQ 5LGs to MFA Cairo (MC)
16078 TJN: French Emb Beijing 0840 FEC-A 192/850 w/5LG's (ML2)
16087.7 RFVI: FF, Le Port, Reunion 0733 ARQ-E3 100/425 idle (EW)
RFVI: FF, Le Port, Reunion 1200 ARQ-E3 cct REI to Paris. (JD2)
16091.7 Egyptian Embassy,??? 1557 ARQ ATU-80 MSGs acks to MFA Cairo. (MC)
Unid 1347 ARQ idling & QRT 1349. (RM)
16098 HBD20: MFA Berne, Switzerland 1925 ARQ w/very long 5LG msg. (JD2)
16100 Russian Mil,??? 0753 81-81 96bd/500 tfc (MC)
16106.8 SAM: MFA Stockholm 1554 SWED-ARQ w/tfc to Mexico. (RM)
16112 Unid: 1206 ? 50/260 unable decode. (RH2)
Unid 1350 CIS sys 36.5/500 W-4100 can't decode this mode. (RM)
16118 HBD20: MFA Berne 0900 ARQ 5 LG's (DG) MFA BERN 1400 ARQ Tfc in offline encryption - to Havana. (DW)
HBD46: Swiss Embassy, Havana, Cuba 1820 ARQ w/5LG's to unid location, off w/"end of traffic" & ID "HBD46". (RB)
16125 RFQP: Djibouti 0915 ARQ-M2/200 idle. (MS4)
16128.5 British Mil,??? 1737 Piccolo-12, crypto (MC)
16129 M4W: Mossad Tel Aviv 0821 RTTY 75/350 chatter/prosigns (DG)
16134 CLP: Cuban MFA,Havana 1527 RTTY 75bd/500 NX in SS ends "embacuba" or "minrex" (MC)
16137.5 French Diplo,??? 1138 TT2300b 100bd tfc (MC)
16143.7 RFLI: French Forces, Fort de France, Martinique 2155 ARQ-E3 in 192/425 idling. (RB)
16151.5 Unid: 1210 PICCOLO loud, noisy & strange sounding PICCOLO! (RH2)
16178.1 MFA Prague, CZA 1213 RTTY 96/404 w/nx/Czech, unlisted. (RH2)
16180.1 Unid: 1220 PACTOR unable decode, unlisted. (RH2)
16180.5 British Mil,??? 2116 VFT: 2ch of Piccolo-6, engineering ch idle (MC)

16180.9 British Mil,??? 2117 VFT: 2ch of Piccolo-6, crypto tfc (MC)
16222.7 Unid: 1745 ARQ-E 96/400 idling (DG)
UNID. 1210 ARQ-E 96/400 rc=8. Betas (DW) (this has been an unid for some time -LOGS)
16256 GFH: RAF Kai Tak HKG 0950 PICCOLO w/ svce msgs to VHC (ML2)
16257 DoSC Moskva 0835 RTTY 75/500 link ID 90051 w/5LGs to 'RJA' (ANEU)
16261.8 RFTJD: FF LIBREVILLE, GAB 1310 ARQ-E3 192/390 w/ZFX IAH444 (cid) to Paris. (RH2)
16270 Unid: 1558 RTTY 75 scramble mfa Prague? (BvR)
16274.6 GXQ: British Army,London 0958 VFT: 4ch of 50/170 Baudot (6028 Config), "iryiry test de gxq" (MC)
16278.6 7RQ20: Algerian MFA,Algiers 1422 COQUELET-8 26.7bd MSGs in FF to Khartoum (MC)
16280.2 RFFA: MOD Paris 0727 ARQ-M2 200/425 idle (EW)
16286 LGOS***: French E,Lagos 1023 ARQ6-90 200bd/400 "sv dipl de lgos" circuit LGSX (MC)
16295 Unid: 0610 RTTY 75/400 headers/encrypted tfc (DG)
16302 DFZG: Mfa Belgrade 1420 RTTY 75 encrypted ending w/"HR QRU TKS 73 SK SK 412 PSE NW QRZ A TKS @@ SK@@" (BvR)
16315.7 7RQ20: Algerian MFA,Algiers 1444 COQUELET-8 26.7bd Opchat collecting MSG acks fm various embassies (MC)
16332.1 V5G: MFA Bucharest 1040 ROU-FEC 164/400 diplo tfc (DG)
16339.7 'Elefante': ITALMIL Roma 0703 USB + PSK 1200 (ANEU)
16352 CLP1 MFA Havana CUB 1733 RTTY 75/470 same circular as sent 3 1/2 hrs earlier on 14449.2. Was to Embacuba Guyana (RM)
16685.5 KJLV: M/V Sea Lion 1618 ARQ U.S. flagged 34,100 DWT container/Ro-Ro ship (Crowley), w/tlx to Inchcape Philadelphia. P3LY2: M/V Golden Sky 1655 ARQ 30,449 DWT bulker w/company tlx, login 56194 P3LY2. UNSW: TKH Kapitan Bukmakin 2016 ARQ w/tlx re cargo of fishmeal & nitrates, login 66191 UNSW. (RB)
16687 CUQP: M/V Smyrna 1526 ARQ 41,070 DWT bulk carrier, w/att to send DIRTLX tlx, login 27514 SMYRNA. (RB)
16688.5 C6HI6: Atlantic 1951 ARQ crew/vsl in jeopardy from hurricane Bertha. (AB2)
16689 SS Green Valley: 0905 ARQ tlx to CTG Seven Three Green Valley sending an unclas message " weekly readiness report to ??? .Fuel status-also reporting propulsion equipment & all supporting equip in state of readiness. May be a nuclear powered vessel ?? (MS4) (c/s KHAG, she is a steam powered (SS salutation) barge carrier (LASH) chartered to the U.S. Military Sealift Command as a prepositioned supply ship at Diego Garcia -LOGS)
16691 3FCY3: T/N MSC Federica 1617 ARQ 23,942 DWT container ship, w/tlx to report repairs completed, back up to full speed, ETA to Wandelaar pilot, 42014 3FCY3. C6BJ4: M/V Janice Aung 1655 ARQ 25,400 DWT bulk carrier, w/posn tlx 4216N/5717W, ETA New York, login 61406 JANICE. J8IP9: M/V Antwerp Express 2008 ARQ 12370 DWT dry cargo vsl bound to Rio w/tlx for repairs to be done. (RB)
16693.5 ELOC5: T/X SCF Spirit 1529 USB w/tlx in RR to Novorossiysk, QTH is Texas City, info about a 1988 Mercedes, master signs w/full name Sokolovskiy Valeriy Miaylovich. (RB)
16694 N/A: M/V Union Mercury 1328 ARQ 3,085 DWT dry cargo ship, w/tlx re sailed Cristobal, ETA Progreso. SZNU: M/V Trident Mariner 1459 ARQ 30,088 DWT bulker w/ship's chandlers order for St. Johns, CAN. (RB)
16695.5 URFC: Berdyansk 0337 ARQ tfc for Mariupol. (AB2) URFC: M/V Berdiansk 0402 ARQ dirtlx w/Mariupol. login 67814 urfc. (WT)
16696.5 DZAB: M/V General Cabal 1448 ARQ 12,100 DWT bulk carrier, w/AMVER tfc, login 26317 CABAL. (RB)
16699.5 C6KW8: Hato Arrow 1536 ARQ 38,635 DWT bulk carrier, w/ship info tlx, login 70127 HATO. LYBX: TR Kaptonias Domeika 1549 ARQ w/tlx for bunkers requested at Port Arthur. (RB)
16701.5 YLCZ: TKH Akademikis Botszhars 2032 ARQ Latvian 7,496 DWT reefer/carrier w/tlx re arrival Balboa awaiting orders, also Riga DISP 'Sea'. (RB)
16707.5 SXHP: M/V Jewel-1 2121 ARQ 65,403 DWT bulk carrier, wkg Athens Radio, w/relay of msgs for SVDE, M/V Merini to Gold Union Piraeus. (RB)
16713.5 ELRI3: M/T Goodrich Bay 1350 ARQ 14,326 DWT methanol tanker, w/noon posn report, 3222N/7604W. (RB)
16716.5 UDXF: TKH PROFESSOR KHLYUSTIN 1448 ARQ msg in EE & collecting

mailbox msgs from UFN. (HOOD)
16721 9HYZ4: M/V Keneta 1228 ARQ 2,150 DWT dry cargo vsl, w/posn 1136N/06622W, ETA to St George, Grenada. KPSB: SS Coronado 1456 ARQ U.S. flagged 40,995 tanker (Keystone) w/AMVER/FP for Jacksonville. (RB)
16771 UZTM: BIZON (tug) 0807 RTTY 50/170 msg in EE to SCAFI OFFSHORE NAPLES from KM Mariinskiy via UUI. (HOOD)
16793 Unid ship 1325 FEC relaying EE nx from Manila to 1335, ending "edited & passed by RAN/REBELDE NNNN" (ship received nx via satellite). (FH)
16799.5 LYEW: SOVSHIP "RKTS NIKOLAI AFANASEV" 0900 RTTY 50/170 w/K'Grad. UYDU: SOVSHIP "RKTS MORE SODRUVESTNA" 1328 RTTY 50/170 w/Sev'pol. UAUG: SOVSHIP "BATM KURASOV" 1235 RTTY 50/170 w/K'Grad (UIW). (RH2)
16799.6 EKGS: SOVSHIP "KAPITAN TEPLOV" 1640 RTTY 50/170 w/Murmansk (UDK2). (RH2)
16801.5 UFZJ: RTMS Azimut 1640 RTTY 50/170 Russian Rybolovnyj Trauler Morilzhnyj (RTMS), or super fishing trawler/super freezer vsl, w/RYRY/DE to UIW, K-grad, & into crew TG's (KLD/MRH). (RB)
16802 ULYC: SOVSHIP "KAPITAN MILOVZOROV" 1140 RTTY 50/170 w/Vladivostok. (RH2)
16802.6 UUTC: SOVSHIP "NEVRITONIJ" 1237 RTTY 50/170 w/Sev'pol. UZNC: SOVSHIP "RKTS KONSTRUCTOR KOSHKIN" 1005 RTTY 50/170 w/Sev'pol. (RH2)
16803 Unid ship 1757 FEC w/nx re PHL in EE (RM)
16803.1 UJZY: SOVSHIP "NATALYA KOVSHOVA" 1330 RTTY 50/170 w/Sev'pol. (RH2)
16803.6 UNMK: SOVSHIP "TH VOSTOK" 1335 RTTY 50/170 w/Sev'pol. (RH2)
16806.5 NMC: CAMSPAC Point Reyes, 1800 FEC Ca, US w/wx, high seas forecast. (RB)
16808 SPA: GDYNIA R, POL 1255 FEC w/tfc list. (RH2)
16810.5 FFL: St. Lys radio 1803 FEC tfc lst (BvR)
FFT81: ST. Lys Radio 1200 FEC mib (DG)
16817.5 KPH: San Francisco R, Ca 1920 ARQ w/tlx to '36556 CGGR' from Coolship. (RB)
16829 USU: MARIUPOL R, UKR 1319 ARQ w/tlx to BP London re "KOMSOMOLETS ARMENII". (RH2)
16830.5 SVU6: ATHENS RADIO 0748 ARQ irs mode then "SWCD de SVT klm mom" then "ere nil klt gx su bibi+". QSO ends, marker "de SVT & tuning mark. At 1018 Tfc to SWGK then tfc list in fec. Marker "de SVT" & tuning mark. (DW)
16839.5 UFN: NOVOROSSIYSK RADIO 0621 ARQ to UVRL: TKH ALEKSANDRA KOLLANTAY relaying msgs from Vladivostok. (HOOD) UFN: Novorossiysk Radio, RUS 1851 ARQ w/sitor free signal; at 1921 wkg ELNX9, Tromso Fidelity.(RB)
16844 VCT: Global Wireless Tors Cove 1710 FEC tfc lst (BvR)
16879 LZW: Varna radio 1250 FEC tfc lst (BvR)
16883 OST60: Oostende Radio, BEL 1216 ARQ w/sitor free signal. (RB)
16898.5 UAT: 0400 FEC DE UAT radio-Moscow-- operating freq. + tfc list (MS4)
16905 FUV: 0500 RTTY 75/425 Djibouti--test tape-- de fuv ryryryry (MS4)
16951.5 6WW: Dakar 1111 RTTY 75/850 "Volei le testing de 6 whiskey whiskey...the quick brown fox...etc". (FH)
17000 Unid 1951 RTTY 75/850. w/enc (RM)
17001.7 NMN: USCG CAMSLANT Chesapeake, Va 2025 ARQ w/sitor free signal, CW ID, most likely set up here for USCGC Eagle as this is not a regular sitor channel. (RB) NMN: USCG Portsmouth 1400 ARQ w/ready signal, CW ID. (FH)
17022.5 WLO: Mobile Marine Radio, 1838 FEC Al, US w/tropical wx outlook. (RB)
17055.3 MGJ: RN Faslane Scotland 1956 RTTY 75/170 w/list of avail ch's
17106.8 Unid 1410 75/850 encrypted. (RM)
17148.3 NMG: USCG CommSta New Orleans, La, US 1849 FAX 120/576 wefax, very good. (RB)
17421 'Elefante': ITALMIL Roma 0655 USB + PSK 1200, ARQ-E-96 X-talk from SISMI Roma 'WJI' on the signal. 'WJI' was transmitting on 13387 kHz; QSX 14781.5 kHz (ANEU)
17432 DFZG MFA Belgrade YUG 1416 RTTY 75/400 encryption (RM)
17441.4 5YE: Nairobi Meteo 0707 RTTY 100/850 wx reports (EW)
17443 BZG48: Xinhua 1245 RTTY 50 fr nx (BvR) BZG48: XINHUA BEIJING 1126 RTTY 50/425 Marker "qra de BZG48 XINHUA Beijing" and ry's. Fm 1130 press in FF. (DW) BZG48: XINHUA News,Beijing 1227 RTTY 50bd/500 NX in FF (MC)
17452.8 Unid 1320 ???? 75/190 unable decode, strong sigs! (RH2)
17520 HSW61: Bangkok Meteo 0710 FAX 120/576 wx map (EW) HSW61: BANGKOK

METEO, THA 1325 RTTY 48/302 w/synop codes. (RH2)
17550.9 RFTJ: FF Dakar 1754 ARQ-E3 192 non protege mgs (BvR)
17556.7 Egyptian Emb Jakarta INS 0740 ARQ w/ATU-80 msgs (ML2)
17590 HZN49: Jeddah Meteo 0715 RTTY 100/850 wx reports (EW)
18002 Unid: 0718 FAX 120/576 wx map very poor copy (EW)
18016.7 Egyptian Embassy,Kinshasa 1120 ARQ ATU-80 MSGs to MFA marked "jg wsgzkpk" (MC)
18029.2 ZAIRE BANK CIRCUIT - KINSHASA/GOMA, ZAI 1005 RTTY 50/174 w/tfc/FF. (RH2)
18181 MFA ALGIERS 1357 COQ-8 Tfc (nx) in FF. (DW)
18203 P6Z: MFA PARIS, F 1205 ARQ 6-90 200/? unable decode. (RH2)
18212 9XK79: Deutsche Welle relay sta Kigali RRW 0830 RTTY 100/425 w/summary of DW's ops,in EE (language varies) (ML2)
18277 8WB3: Indian HiCom Pt Louis MAU 0600 RTTY 50/425 w/5LG's to New Delhi. (ML2)
18278 IWB3: Lusaka Air 0915 RTTY 50/425 test tape de iwb3 ryryry (MS4)
18283.3 HBD22: Swiss Emb New Delhi IND 0230 ARQ w/ 5LG's & rpt of nx GG FF. (ML2)
18421 CLP1: Havana 1726 RTTY 50/500 w/circular 785 in SS foe embacubas. (FH)
18461.7 PCW1: Dutch MFA,DenHaag 1252 CW, "pcw1" marker plus SITOR phasing bursts (MC)
18529.3 Algerian Embassy,Damascus 1324 COQUELET-8 13.3bd Diplo MSGs in FF to MFA mkd "vci off damas". 7RQ50: Algerian Embassy,Djakarta 1237 COQUELET-8 13.3bd Diplo reports to MFA Algiers (MC)
18532.9 Unid: Germany 0852 (VFT)3xFEC-A-96/85, 5LGs on all 3 channels, same station as on 14430.7 (ANEU)
18552 V5G***: Romanian MFA,Bucharest 1035 ROU-FEC 164.5bd/400 crypto (Bitmask=18) + CW ID and call-up (MC)
18704.2 DGS70H5: PIAB NX Bonn 0846 FEC-A 96/400 GG NX (DG)
18712 BZR: 0945 RTTY 75/425 Xinhua press -Nx in EE (MS4)
18724.5 8WA3: Indian Emb Yangon MYA 0830 RTTY 50/425 clg New Delhi w/QRU. (ML2)
18825 Unid 2014 ARQ selcalling, then EE msg to a senora, fol by many in unid language, poss Croatian, seemed to be from a ship (BI BI BI). (FH)
18956 DIPL***: French MFA,Paris 1045 ARQ6-90 200bd/400 IRS mode followed by "73 ar" (MC)
19011.7 PCW1: MFA Den Haag 1737 ARQ Persspiegel to Teheran (BvR)
19031.7 Pakistani MFA,Islamabad 1013 TWINPLEX-1N 100bd/400 (-200/-100/+100/+600), call "KMEU" (MC)
19052 8WB7: Indian HiCom Victoria SEY 0930 RTTY 50/425 w/msgs to 8WD3 New Delhi. (ML2)
19216.7 RFLI: FF Fort de France, Mrt UTC? ARQ-E3 96/504 controle de voie, encrypted msgs. (RT2)
19224 Unid 1250 RTTY 75/850 "C ON HR QSL CQ 8154...UM 73 VSKVVOK. (FH)
19325.2 USAF 1745 RTTY 75/910 w/end of msg, at 1800 back on w/'KAWN' meteo wx in abbreviated EE, circuit ID XX79. (FH)
19365.4 AFS: UTC? FAX 120/576 USAF AMS OMNEB strong sig. (RT2)
19400 VVD: 1100 RTTY 50/170 Delhi Meteo India (MS4)
19445 MFA Pyongyang KRE 0030 RTTY 50/1000 w/5FG's (ML2)
19622.2 OZU25: MFA COPENHAGEN, DNK 1310 ARQ synch pulses only. (RH2)
19642 Unid: 1400 RTTY 100/850 VVVVVVVVV. (FH)
19747.5 6VU79: Dakar Meteo,Senegal 1449 RTTY 50bd/400 AAXX WX for Cameroon land stations (MC)
19787 Unid: 0820 ARQ6-90 200/400 5 LG's (DG)
P6Z: MFA Paris 0820 ARQ6-90 w/5LG's to Antananarivo (ML2)
20336.5 Unid: 1112 UNID 100bd/850 UNID FSK System (MC)
20950 BND NW-Germany 0900 ARQ-E 192/190 encrypted tfc.,QSX 19856 kHz (ANEU)
22378 FFT91: ST Lys Radio 1500 FEC Qtc list then marker ""FFT" and tuning burst (DW)
22390.5 FFT92: ST Lys Radio 1505 FEC Marker "FFT" and tuning burst. (DW)
22412 WLO: Mobile Marine Radio, Al, US 1859 ARQ wkg C6RT, M/V Celtic Sea w/tlx tfc. (RB)
22678.6 FFP? Fort de France? 1700 RTTY 100/850 onward. (FH)
23960.7 Unid: 1700 RTTY 100/850 onward. (FH)

438 OXZ: Lyngby Radio,DNK 1113 CW w/various vessels (AB)
2182 OXZ: Lyngby R 1704 USB Ann TFC list in EE & Danish. LGT: Tjome R Nor 2136 USB Ann. navwng. LGD: Oerladet Nor 2136 USB Ann TFCLIST. LGZ: Farsund R, Nor 2137 USB Ann No TFC on hand. LGN: Bergen R Nor 2140 USB Ann No TFC on hand. GPK: Portpatrick R, 2203 USB Ann TFC list on 1883 (JS3) GCEW(?): Unid vsl 0555 USB clg unid station, sounded like STCICS. (RB)
2749 VAU: Yarmouth CG Radio, NS 0542 USB w/seastate forecast in EE/FF.(RB)
4098 3EWK9: M/S Fascination 0412 USB Carnival cruise line 70,000 GWT cruise ship clg/wkg WOM for passenger R/t tfc. (RB)
4125 ZKR: Rarotonga Radio Cook Is. 0640 USB wkg Unid ship. QSY to 4146 for posn report & wx/sea state report (AB3)
4131 3ESE9: M/S Sensation 0111 USB Carnival Cruise Lines 70,367 GWT cruiseship, clg/wkg WOM for R/T tfc. 3ETG9: M/S Royal Majesty 0201 ARQ Majesty Cruise Lines 32,400 DWT cruiseship clg/wkg WOM for R/T tfc. LAMU4: M/S Monarch of the Seas 0248 USB clg/wkg WOM using the shortened "Monarch" for R/T tfc. (RB)
4149 WBN6510: tug Sentinel 0533 USB clg/wkg WPE, Tug Communications, Jacksonville, Fl, US w/posrep. WCX6371(?): tug Sea Racer 0536 USB clg WGY, Tug Communications, San Juan, PR, no joy. (RB)
4187 ODNK: m/v GEORGE 1230 CW w/HLG - 11,321GWT Bulker (JSM)
4190 3EVS5: m/v Green Saikai 0120 CW w/KLB enrt Seattle was passing the house/60db over S9! 11,315GWT Bulk Carrier (JSM)
4192 ELAW9: m/v Manila Bridge 1258 CW w/JOS 6,764GWT/Container (JSM)
4194 BVVW: m/v Jiang Chang 1227 CW w/VRX departing Ningpo 3,995 General Cargo vsl. C4IQ: m/v IRENE P. 1253 CW w/JOS, QTC 4/arrival Tomogaishiua/11,879GWT Gen Cargo (JSM)
4195 ELLE3: m/v VAN TRADER 0609 CW w/HPP - transitting Panama Canal for Cristobal/ 18,003GWT Bulker (JSM)
4303 OXZ2: Lyngby Radio 2140 CW CQ (DG)
4343 SVA2: ATHENS RADIO 2000 CW Qtc list. (DW)
WLO: Mobile, Al 1335 FEC 100/170 wx/ships tfc. (RT2)
4366 FFL21: St.Lys Radio, F 0002 USB w/voice marker, notes from melody "Haute Garonne" played on a...concertina? (hand squeezer) & OM/FF "Ici St Lys radiotelephonique avec les navires en mer. Cette transmission est effectue au niv eau normal de parole pelmettre le reglage des recepteurs a bord (this is St Lys radio radiotelephone service for vessels at sea. This transmission is made at normal speech level to allow adjustment of ships receivers). Repeated. (RB)
4426 VIM Melbourne Radio 0830 USB w/wx tfc to the area. (AW)
6292 VRSP: m/v Taunton 1250 CW w/VIP @12-00S/115-58E 95,853 GWT Bulker. (JSM)
6344 SVB3: ATHENS RADIO 2230 CW Marker "de SVB3/4/5/6 qsx 6 ch5". Periodically increments band and ch nr. (DW)
6376 WCC: Chatham Radio 2323 CW CQ (DG)
6421.5 FFL3: ST. Lys Radio 2317 CW CQ (DG)
6444.5 SVD3: ATHENS RADIO 2223 CW Wkg Tella/SWUJ, sends tfc, revert to Marker "de SVD3". (DW)
6478.7 SVA3: ATHENS RADIO 2000 CW QTC list. (DW)
8176 WAW4789: Ocean Star 0149 USB wkg the treasure/gem exploration vsl R/V Treasure Box-1, WBN4290. (RB)
8198 UUES: MV Gorygne 1748 USB pp via gkt 42 (BvR)
8225 ELKI6: M/S Fantasy 0420 USB wkg AT&T Coastal Station WOO w/conclusion of passenger R/T tfc, is Carnival Cruise Lines 70,367 GWT, cruiseship. (RB)
8234 3ESE9: Sensation (Cruise Ship) 2355 USB Wkg WOM. 19N/80W (IB)
8237 NKZI: USS Pennsacola 0000 USB wkg WOO with R/T tfc. (SF)
8264 CZMW: Unid vsl 0625 USB clg WLO, no joy. (RB)
8267 3EWJ9: Imagination (Cruise Ship) 2307 USB Wkg WOM. (IB)
8270 J8IH3: 1642 USB clg Doha radio (BvR) (M/V Sea Empress -LOGS)
8340 3FMI4: m/v Amur No.2 1404 CW w/XSE re eta at Qinhuangdao 3,963GWT General Cargo vsl (JSM)
8344.5 3EYT2: m/v BLUE ONDO 1338 CW w/JOS @ 30-02N/122-55E 2,679GWT General Cargo (JSM)
8345 VRDP: m/v United Hope 0037 CW w/KPH 37,955GWT Bulker (JSM)
8346 H8DY: m/v YU MEN 1449 CW w/VRX - dep't Labuan / 5,408GWT General Cargo. BTNH: m/v FAN XIANG 1548 CW w/JOS - sailed Ishinomaki for Shanghai/998GWT Refrigerated Cargo vessel (JSM)

8347 3FMN2: m/v FAREAST PILOT 1336 CW w/VRX - dep't Keelung at 2100 lt for Kao / 4,414GWT Gen Cargo (JSM)
8348 SXDJ: m/v Agamemnon 1501 CW w/JNA arrv'l Singapore 13,598GWT General Cargo (JSM)
8350 LYAF: M/V MARJAMPOLE 0715 CW rptg posn and wx w/eta for Garston via OXZ. (HOOD) DZDI: m/v NATIONAL HONOR 2332 CW w/KFS w/AMVER/OBS 40-40N/140-10W str 276deg @ 16.5 knots/ cw note pure a.c.! 13,680GWT Gen Cargo (JSM)
8351 YLAF: TK AINAZI 0725 CW msg to RUSSCHART HAMBURG via IAR after clg in on 8369. (HOOD)
8352 9HRX4: m/v Seaeagle 2313 CW w/HPP sld New Orleans for Panama 34,500 GWT Bulker (JSM)
8355 YDOH: m/v GARUDA MAHAKAM 1 1440 CW w/HSA re draft for river entry 3,534 GWT Tanker (JSM)
8358 BAWZ: m/v HUA SHA 1455 CW w/VRX re arrival / 3,843GWT General Cargo
8360 3ETA5: m/v GREEN MAYA 1453 CW w/KLB re bunkering delay 11,506GWT Bulk Carrier (JSM)
8375 UAPP: TKH VOLGO-BALT 126 0700 CW msgs to UCW4. Vsl is ex EUVN. (HOOD)
8380 J8HN2: m/v Hai Shun 1520 CW w/JOS re eta at Ishigaki 4,345 GWT Refrigerated Cargo Carrier. (JSM)
8396.5 DVTQ: m/v CHANNEL ENTERPRISE 1249 CW w/JNA w/JASREP/17-00N/118-57E 77,304 GWT Bulker (JSM)
8448 A9M: Hamala Radio 1848 CW CQ (DG)
8457 OFJ: Helsinki Radio 1023 CW CQ (DG)
8483.5 DAN: Norddeich Radio 1020 CW CQ (DG)
8525 WNU33: Slidell, La CW wheel tape 26wpm qsx 4/6/8/12/16/22. (RT2).
8530 IAR: ROME RADIO 0843 CW Wx in Italian then "cq de IAR forecast on 521.5 4292 8530 13011 17160.8 as" the Fleet forecast message in EE. (DW)
8541 LYL: Klaipeda Radio 0942 CW CQ (DG)
8557 SPE41: Szczecin Radio 0924 CW CQ (DG)
8570 UBO3: PETROZAVODSK RADIO 0720 CW msgs to UGWE: TKH AMUR 2506 & UTSR: TKH AMUR 2517. (HOOD)
8574 LGB: Rogaland Radio 1902 CW CQ (DG)
8580 RKLM: Arkhangelsk Radio 1850 CW CQ (DG)
8589 HPP: Panama Intelmar Radio, 0133 CW PAN, w/V, QSX marker. (RB)
8624 XSQ: Guangzhou Radio 1845 CW CQ (DG)
8651 HZG: Dammam Radio 1822 CW CQ (DG)
8686 CNP: Casablanca Radio 1818 CW CQ (DG)
8687 SVA4: ATHENS RADIO 0758 CW "de SVA tfc list as". At 2005 CW QTC list. (DW)
8692.5 SVD4: ATHENS RADIO 2240 CW Marker "de SVD4". (DW)
8704 SVB4: ATHENS RADIO 2242 CW Marker "de svb3/4/5/6 qsx 12 ch 5". Periodically increments bandand ch nr. (DW)
8704.5 SVB4: Athens Radio, Greece 0128 CW w/CQ marker. (RB)
8728 EHY: Madrid Radio, E 0602 USB w/tfc list, ann in EE/SS next list to be 1003 UTC. (RB)
8740 OXZ: Lyngby Radio 1751 USB clg unid mv (BvR)
8746 SPO: Szczecin R 0644 USB pp (BvR)
8749 TAH: Istanbul Radio 1723 USB pp (BvR)
8773 SVN47: Athens Radio, Greece 0340 USB w/voice marker, YL in Greek w/ann of dial up services offered by Hellenic Telecommunications Organization (OTC) separated by a door bell like "ding dong", goes on for some time. (RB)
8776 SVN48: Athens Radio, Greece 0347 USB w/voice marker, YL in Greek w/ann of dial up services offered by Hellenic Telecommunications Organization (OTC) separated by a door bell like "ding dong". (RB)
8782 HEB18: Berne Radio 1720 tfc lst (BvR) KMI: AT&T Coast Station Ca 0503 USB wkg vsl Rift Drift for R/T tfc. (RB)
8788 SPC42: Gdynia Radio, POL 0347 USB wkg vsl, Arctic Wave(?) in EE for R/T tfc. HEB28: Berne Radio, SUI 0514 USB YL w/EE ID, & "no reply" several times. (RB)
8793 KMI: AT&T Coast Sta, Calif 0521 USB Point Reyes Ca, wkg WBO3654, Spirit of the North for R/T tfc; at 0522 wkg VY8867, Luna for same; at 0537 wkg WCR8449, New Hope for same; at 0549 wkg Boa Contender for same. (RB)
8794 A7D: Doha Radio 1605 pp (BvR)
8803 5BA54: Cyprus Radio 0340 USB p/p unid vessel in Greek (AW)

12290 XCMM: 2201 USB Unid Ship clg Radio Mexico repeatedly for nearly 20 mins w/ no joy (RM)
12290 LAZB2: Nordic Challenger (oiler) 2307 USB clg what sounded like Matraeso Prienta. Contact made at 2315 (RM)
12356 WBT9121: M/V Gulf Majesty 2038 USB Gulf Fleet Marine offshore boat/tug, wkg unid station. (RB) WSC9756 Rsrch Vsl Stewart (Stuart?) Johnson 1905 USB wkg unid coastal sta. (RM)
12422.5 DZUV: m/v HANDY EXPLORER 1729 CW w/WCC w/AMVER/23-17N/85-23W str 255deg @ 11.9kts/ 20,232GWT Bulk Carrier (JSM)
12425 3FOA3: m/v Diamond Leaf 0451 CW w/P2M re Kimbi eta 3,952GWT General Cargo vsl (JSM)
12426 ATQQ: M/V STATE OF MANIPUR 0721 CW passing ETA for Bilbao via GKB. (HOOD)
12428 3FAK5: m/v Alligator Strength 1822 CW w/KPH @ 47-22n/143-48W 42,855 GWT Container Ship. P3EJH: m/v OHIO 2308 CW w/WLO w/AMVER, 04-35N/079-36W str 182deg @14.8kts 19,587GWT Tanker (JSM)
12428.5 3EOA7: m/v Daiho 0041 CW w/VAI w/AMVER 44-13N/164-14W strg 068deg at 15kts 31,047GWT Wood-Chip Carrier (JSM)
12433 3FDMJ: m/v Comodal 1 0511 CW w/WCC arrv'l Port of Spain Trinidad-awaiting berthing 5,596 Ro-Ro Cargo vsl (JSM)
12441 3EQV6: m/v Shin Sendai 0227 CW w/JNA w/JASREP 47-06N/157-10E 34,261 GWT Wood-Chip Carrier. 3FFG3: m/v Sincere Gemini 0011 CW w/VAI w/AMVER 50-02N/174-43W strg 080 deg at 13.8kts 14,971 GWT Bulker. (JSM) ELKV7: M/V Ohshu Maru 1700 CW 43,043 DWT Liberian-flagged bulk carrier (Ex-Pacific Runner?) w/TG's to Tokyo. (RB)
12443.5 8KQO: m/V Japan Oak 0634 CW w/JNA w/JASREP 21-05S/149-18E 49,164 GWT Bulk Carrier (JSM)
12445 HCJH: m/v ISLA FLOREANA 2122 CW w/WCC w/AMVER/29-52N/078-11W str 206deg @ 12.8kts 12,677GWT General Cargo ship (JSM)
12447 EOAG: TKH BALTIYSKIY 68 0707 CW wkg UBO3, Petrozavodsk Radio (on 8MHz). (HOOD)
12468 ATQR: m/v State Of Andhrapradesh 1613 CW w/A7D @ 37-18N/006-03E 14,166GWT General Cargo vsl This is my furthest ship logged - ever just off the NE coast of Algeria in the Mediterranean (JSM)
12550.5 URPO: TKH SOCHI 0714 CW passing QTH to UUI. Vsl is ex UFLX. (HOOD)
12833 SVF5: ATHENS RADIO 0709 CW Marker "de SVA5". At 1200 CW Marker "de SVA tfc list as" then qtc list. (DW)
12859 SVD5: ATHENS RADIO 0711 CW Marker "de SVD5". (DW)
12942 RKLM: ARKHANGELSK RADIO 2014 CW Marker "4LY de RKLM qsx 8367.5/ 12551.5 k". (DW)
12967 A7D: Doha R 1709 CW MKR: DE A7D (JS3)
13023 D3E62: Luanda 1700 CW mkr: CQ CQ CQ DE D3E62 (JS3)
13028.6 SVB5: ATHENS RADIO 0718 CW Marker "de SVB4/5/6/7 qsx 22 ch 4". This is 400hz lower than listed frequency - change or tx prob? (DW)
13047 SVA5: ATHENS RADIO 2006 CW End of tfc list. (DW)
13076.7 HZG: Dammam 1655 Cw mkr: DE HZG (JS3)
13077 KMI Dixon 0515 USB wkg WB_4387 (any ID?) pp (AW)
13080 KMI Dixon 0345 USB wkg several vessels, pp. Later at 0415 KMI advised all waiting vsls, that the operators are now extremely busy. (They were.) (AW)
13089 UDH: Riga Radio 1710 USB ww unid mv (BvR)
13098 5BA54: Cyrpus Radio 0525 USB general call. "This is Cyprus Radio". (AW)
13113 VCS: CCG Halifax CG Rdo, NS 0208 USB w/wx for the maritimes. (RB)
13122 BVA Taipei 0420 USB wkg unid vessel in EE, and pp in Chinese (AW)
13152 FFL61: St. Lys radio 1736 USB pp (BvR)
13155 SPO62: Szczecin Radio 1834 tape This is Szczecin radio standby for traffic list (BvR)
13164 HEB33: Berne Radio 1754 USB pp (BvR)
13170 SVN59: Athens 1653 USB TFC unid ship (JS3)
14656 SPW: Warsaw R. POL 2332 USB w/voice maker by YL in Polish. (RM)
16216 Oostende Radio 0939 USB pp.-tfc in Swahili, then ID in Flamish+ clg 'YYR'very strong signal. Where is QSX frequency ? (ANEU)
16619 HPLX: m/v CHIOS CHARM 1724 CW w/VAI w/AMVER/27-10N/116-16W str 322deg @12.5kts 14,873GWT Bulker (JSM)
16622 3EOU6: m/v OCEAN ACE 1624 CW w/KFS re-revised eta Panama Canal due to slowing for hurricane 43,684GWT Vehicles Carrier (JSM)
16627.5 JFDO: m/v Sanyomaru 1916 CW w/KFS @ 54-11N/169-40W strg 264deg at

12.8kts 50,905 GWT Bulker (JSM)
16634 3EQJ3: m/v EARLY BIRD 1712 CW w/KPH re-arrival Callao, Peru 17,999GWT Bulk Carrier (JSM)
16642 HPEP: m/v NORTHERN HOPE 0406 CW w/JOU re-loading delays 3,992GWT General Cargo ship (JSM)
16650 SXLI: m/v ANDROS OCEANIA 1057 CW w/WCC w/AMVER/30-16N/067-44W @13.4kts 20,676GWT Bulker (JSM)
16665 3FZF2: m/v NEW LEADING 0350 CW w/JOS @ 19-25N/139-35E 3,990GWT General Cargo ship (JSM)
16916.5 WSC: Tuckerton Radio, NJ 2020 CW w/traffic list. (RB)
16966 SVI6: ATHENS RADIO 0723 CW Marker "de SVB4/5/6/7" qsx 16 ch 4" (DW)
16981.5 SVG6: ATHENS RADIO 0726 CW Marker "de SVG6". (DW)
17038 WNU55: Slidell Radio, La, US 2030 CW w/CQ, QSX marker. (RB)
17084.9 USU: MARIUPOL R, UKR 1305 CW w/ID/MKR. (RHB)
17093 JOR: 0605 CW mkr Nagasaki (MS4)
17094.8 SVA6: ATHENS RADIO 0800 CW "de SVA tfc list as" then tfc list. (DW)
17161 VIP: 0700 CW mkr Perth (MS4)
17175 A9M: 0610 CW mkr Hamala Bahrain (MS4)
17188 SVD6: ATHENS RADIO 0731 CW Marker "de SVD6" (DW)
17188 SVD6: 0520 CW mkr Athens (MS4)
22471.5 SVD7: ATHENS RADIO 0732 CW Marker "de SVD7". (DW)
22589.5 SVA7: ATHENS RADIO 0734 CW Marker "de SVA7". (DW)
22595.7 SVB7: ATHENS RADIO 1327 CW Marker "de SVB4/5/6/7 qsx 12 ch 4". Fading out most of the time. (DW)

=MILITARY=

82.8 MKL: Royal Air Force,Edinburgh 0813 CW, METAR WX (MC)
122.3 OUA: Danish navy Stevns,DNK 1248 CW DE OUA (AB)
2670 NMA10: USCG Group Mayport, FL 0628 USB to 0630 w/MIB. (RB) USCGC Harriet Lane: 1927 USB wkg USCGC Juniper re wreckage on board, related to TWA flt 800. (RP)
3077 EB: Unid 0570 USB Echo Bravo, w/strong Spanish accent in EE adv unid station that he is 100 miles SW of posn. (RB)
3295 SPELLMAN 0522 USB clg or wkg NIGHTWATCH...both too weak to copy. (MJ)
4033.5 AAA5HZ: U.S. Army MARS 2335 CW wkg AAA5DOE (RB)
4041 NNN0ORA: U.S. Navy MARS NCS 2342 USB wkg NNN0YNR w/net tfc. (RB)
4145.7 HOTEL ONE TANGO 0535 USB working various trigraphs such as KILO SIX INDIA. At one time in the qrn, it sounded as if they discussed something that sounded like SA9 - I can't remember the SAM nomenclature to know if this is a good sam designator. (JH) HOTEL-ONE-TANGO 0425 USB wkg VICTOR-SIX-ALPHA,KILO-SIX-INDIA & others, reporting casualties and 51 rounds of illuminated left on board (and other serious to semi-serious situations). (JJ)
4154.5 ICT: INy Taranto 2156 USB Wkg IFF - Unid. (IB)
4227 SXA3: Greek Navy, PIREAUS 1953 CW Marker "vvv de SXA/G2G/3G K13A/G K13A/G K13A/G". (DW)
4372 Giant Killer (US Navy Fleet Area Control and Surveillance Facility - Virginia Capes - Va. Beach, Va.) 0155 USB wkg various units. Possibly USN assets out of Norfolk to avoid Hurricane Bertha. (SF)
4417 Qubec Kilo: Unid, USN 0122 USB wkg 3Q re getting a number "off the deck" & passing it on. (RB)
4420 Royal Navy: UKMACCS Coastal Ctl 0328 USB w/two-tone availability signal on "Delta". (RB)
4466 Empire 74, Empire 14, Empire 517: 2239 USB conducting some kind of net. (KS) (New York Civil Air Patrol -LOGS) KPB-577: CAP National Wing 2110 USB w/HEADCAP 13 as NCS taking check-in's from Group 1,2, & 3 during CAP net. (RB)
4495 REMEDIAL 0240 USB wkg NIGHTWATCH 01. Both good level here, but fair and broken to each other. HARMONIC 0124 USB misunderstanding NIGHTWATCH's request to move to ZULU 165, popped up on ZULU 125 & called NIGHTWATCH 01 w/no response. SANDWICH 0436 USB called NIGHTWATCH 01. (JH) WAR 46 0346 USB wkg NIGHTWATCH w/sig check. NIGHTWATCH 0459 USB transmitting EAM 3VV5BN, then calls SPELLMAN to see if they received, but gets no reply. NIGHTWATCH 0521 USB clg WAR 46. SPELLMAN answers, asks NW if he was trying to reach his station, then indicates that he was in receipt of traffic 3VV5BN. After this, SPELLMAN loses contact with NW, sez going to secondary (Z120). (MJ)
4540 CUBIC 2LV 2010 USB I'm not sure about the c/s may have been a Nimrod.

wkg Architect reporting that the vessel Lucky Lady was towed into safe water. (CH)
4585 HILLCAP 49: WV CAP 2142 USB as NCS, closing "West Virginia directed CAP Net", note chg from "Mountaineer" for WV CAP. (RB)
4593.5 AFA1FQ: 2305 USB running a "directed but informal net". Other stations checking in AFA1HP AFA1AZ AFA1IM. (KS) (USAF MARS -LOGS)
4604 RED FOX 4: Indiana CAP 2344 USB wkg RED FOX 130 w/rdo checks. (RB)
4612 HERKY 01: 0659 USB wkg METAPHOR. radio checks. '01 has METAPHOR 'loud & clear just like AT&T'!! HERKY 107: USB wkg METAPHOR w/an hourly radio check. Ops normal pass to Command Post. (GT)
4627 KPB-644: CAP Indiana Wing 0010 USB w/two units discussing a radio problem in one of the members a/c. (RB)
4715 Royal AF Volmet 0009/0400 USB wx reports selected airfields. (KW2)
4721 KILO (male opr) 0558 USB wkg SIERRA (female opr) in bored backchannel type chitchat. Probable USN. (JH) (FOX TANGO net hrd here before -LOGS)
4724 DACTYL 15 0517 USB (guess on spelling (probably too many letters) - soundslike "dack-till") calling ANDREWS, w/nothing heard and gone. (JH)
4739 N9V: 0218 USB clg 39T called 39 or X9T several times no answer though. S9+10 signal! from N9V. (JM3)
4741 HAVEN: 0146 USB wkg ASCOT 3201 req wx for Ascension (JM3)
4742 Rafair 1C09 1000 USB Puma helicopter, outbound Odiham destination LFSR ETA 1040. Ascot 5809 1017 USB pp w/Lyneham Metro. wx for EGDL, EGVN and ENOL. ODM 75 1026 USB Puma helicopter 3POB out of EGVO (Odiham) destination EGOV (Valley), ETA 1100 Standard relay J. ODM 75 1152 USB Departed EGOV for Aldergrove N. Ireland, 3 POB ETA 1235 Relay J. ODM 75 1228 USB Established comms. w/Aldergrove on VHF closing down HF. IFN 85 1310 USB C-130 Departed Lyneham 1300 destination Bruggen ETA 1420 Relay K secall AJ-DL. C3Y 1323 USB Nimrod a/c, radio check w/Architect loud and clear. ODM 75 1423 USB Departed EGAA enrt EGOV ETA 1515 Clearing N.Ireland coast this time. 4AS 1229 USB Nimrod a/c, radio check & wx. Mothball 2 1312 USB Wkg. Architect w/pp to Seagull Ops. IFN 81 0905 USB Departed EGVN 0835 enrt Bruggen 0940 selcall BL-HJ Relay F. Ascot 5406 0935 USB selcal AJ-FM. Rafair 1C09 1142 USB enrt ETAR relay ETA 1245. Rafair 4C08 1054 USB (Helo) Departed ETMN for EHVB relay J. 2IB 1105 USB Nimrod a/c, pp Kinloss Ext 6723 (OCA) tasking instructions. Rafair 1C09 1244 USB (Helo) Landing RAF Odiham & closing down HF. Parson 45 1411 USB selcal check FL-BG. 3CQ43 0916 USB Radio check, standard relay J. H9V 0918 USB Nimrod a/c, req wx actuals for EGPK, EGQK, EGQS, EGQL. Ascot 2504 1142 USB Departed Brize Norton 1115 enrt Bruggen ETA 1220 relay F selcal BL-HJ. IFN 83 1146 USB Departed ETUR 1105/15 destination LDSP ETA 1120/30 relay O selcal AK-EG. RFR 8CQ43 1238 USB Departed Listocq Range 1235 8 POB, enrt EGVO ETA 1315. BL-HK 1840 USB Ground radio and selcal check. (See Ascot 2081 above). CWL 1908 USB Ground radio check. (Trainer aircraft various types based at Cranwell). S1G20 1909 USB Request RPS for Barnsley, Tyne, Holyhead. 10H31 1504 USB Arrived posn "Golf" closing down HF in 5 mins. Ascot 5410 1028 USB Departed Lyneham 0940/55 est 30W 1355 ETA St. Johns 1710/20 relay K selcal AH-KL. Ascot 5410 1028 USB Departed Lyneham 0940 est 30W at 1355 for St. John's, NFLD. ETA 1710 relay K selcal AH-KL (ANUK) Ascot 4846 0819 USB Architect (C-130) wx Bardufoss (Norway) (BH) ASCOT 5584: 2310 USB wkg Architect selcal ch. AJ-EL. (CH) CWL 86: 1444 USB pp to Cranwell 6166pp "CWL86 you are reminded that this is an Insecure HF circuit and any mention of Name/Rank & Position is Forbidden". ARGUS ONE: 1445 USB On long final closing down on landing" (JM3) TAILHOOK: 0506 USB wkg NIGHTWATCH w/authentication into the net, no other units active at this time. (RB) RRR5809 1018 USB Architect/p/p to Lyneham MET,req.TAFs for EGDL, EGVN & actual for ENOL. ODM75 1025 USB Architect/Heli.dep.EGVO to EGOV ETA 1144 3 POB, req.listening watch & Standard relay 'J'. (RD3)
4745 PLOWYOKE 0527 USB wkg SYCAMORE, with SYCAMORE making this freq the net primary freqs. NIGHTWATCH 01 worked SYCAMORE immediately after the PLOWYOKE comms. At 0546z, YCAMORE broadcast a 38-character EAM: PDXEPF... (string broadcast on GHFS at 0550z.) SYCAMORE worked NIGHTWATCH 01 at 0623z for a signal check, followed by WAR46 working

NIGHTWATCH 01. WAR46 back up at 0715z & worked NIGHTWATCH 01. (JH)
5110 Unid: 0656 USB w/ANDVT tfc. (RB)
5320 Coast Guard Group Activities Baltimore 2305 USB wkg unid. Also had "Carolina Beach Two", and "Mount Pleasant Radio" (ID's?) before that. (JDS) USCGC Lagare 0110 USB wkg USCGC BEAR ops matters. USCGC Campbell 0127 USB wkg Legaire passing info on winds. USCGC Bear 1056 USB wkg USCGC Legare ops matters. USCGC Legaire, USCGC Tampa, USCGC Campbell 1107 USB ops matters. USCGC Bear 1137 USB wkg Legare, Bear adv heading to Portsmouth 0800 -- Legare advised co will call via cell phone. USCGC Legare 1203 USB to all stations with wx info requested ack --- Cutters Tampa (enrt 0830) Quintec (enrt 0800) Staten Island (enrt 0820) Harold Lane, Bear. USCGC Campbell 1226 USB wkg Legare req & passed on scene wx. (KW2) (NHNC is USCGC Harriet Lane (WMEC-903), USCGC Bear (WMEC-901) is NRKN, NRPM is USCGC Legare (WMEC-912), NSEL is USCGC Staten Island (WPB-1395), & NRDC is USCGC Campbell (WMEC-909), NIKL is USCGC Tampa (WMEC-902) -LOGS) NOY8: USCG "Group Corpus" 0014 USB Corpus Christi, Tx, clg unid trigraph unit, then into ANDVT. NOY8: USCG "Group Corpus" 0252 USB Corpus Christi, Tx, wkg SHARK 1339 (aka USCGC Key Biscayne WPB-1339 on DEA mission) re lost comms w/BAVARO(?) 211, & req they att to contact them. Never hrd the hull ID used w/SHARK before, normally just last 2 digits used (SHARK 39). NOQ: USCG Group Mobile, A 0254 USB wkg W5C re CommSta (app New Orleans) req they come up on 2670. E4T: Unid USCG asset 0458 USB clg Group Galveston, no joy, Group Mobile answers at 0522, E4T req they pass posn benchmark LIMA at 030 true, 13 NM to Galveston. NOY: USCG Group Galveston, 0534 USB Tx, US clg E4T no joy. (RB)
5400 NRUF: USCGC Mohawk (WMEC-913) 0357 USB wkg CG 1719 (HC-130H) & relaying comms to GANTSEC, ap related to SAR for a ship that went down during Hurricane Bertha. NRUF: USCGC Mohawk 0505 USB (WMEC-913) wkg GANTSEC (Greater Antilles Section, San Juan, PR) relaying posns, courses for cutters in Caribbean under hurricane sortie for 'Bertha'. (RB)
5446.5 FDC: FAF Metz 2127 CW CQ (DG)
5680 Kinloss Rescue,G 1222 USB w/Rescue 11 giving coordinates to look for a missing vsl (AB) Kiwi 629: 0715 USB wkg Wellington RCC (Rescue Coordination Center) RNZAF P3K Orion Overhead distressed fishing vsl near Chatham Islands. Vsl lost steering and electrics. (AB3) Rescue 11 1544 USB Nimrod, callsign formerly (6GI) routing Enniskillen airfield, N.Ireland to investigate PLB on 121.500 ETA 1601 Tiger 46 (Puma) doing low level search. PLB signals traced to Bell Jet Ranger helicopter G-CORT which was doing pleasure flights. Rescue 11 1641 USB Going off task enrt Lossiemouth ETA 1705 shutting down HF. Rescue 177 1644 USB Search complete ETA Prestwick, Scotland 1718 (Seaking 819 Sqn). Rescue 169 1645 USB Comms very poor w/Plymouth Rescue. (Seaking, 22 Sqn. Chivenor). Rescue 137 1732 USB Pickup 4 members of Locharber MRT from Anaghmor car park, prior to search of Ben Nevis area. (Seaking, 202 Sqn. Lossiemouth). (ANUK) Rescue 177 0915 USB Kinloss Rescue (helo) ops normal (BH) ERDR: 1640 USB clg Glucksburg Rescue for r/check. (JS3) Kinloss Rescue: 1915 wkg Sierra Romeo 131 w/routine radio check, good readable. Gluecksburg Rescue: 1920 wkg German Navy Submarine DRES w/radiocheck in EE. DRES: 1925 USB clg Gluecksburg Rescue in EE then GG Wirbeabsichtigen um 2130 zu tauchen, unsere Posn 44 Grad 45,6 Minuten Nord, 10 Grad 08,2 Minuten Ooooost" (WE DIVE AT 1930 AT POSN 44N45,6 10E08,2) Gluecksburg Rescue answered that the Helicopter Standby-Unit will be on duty till 2130 h local. (MM3)
5684 MKH5: 1543 USB clg CWL85 53 45N 003 45W. MCH?: 1418 USB TC1 also on Freq. "EMBARGO HAS BEEN EXTENDED BY 20mins OVER". 5KH5/CWL85 also heard (JM3)
5687 DHO23: German AF Landsberg 1455 USB wkg. GAF186 (ANEU) Unid rescue helo 0856 USB w/destination was LHSV (Hungary). (IM)
5692 CAMSLANT 1619 USB wkg CG 1717 pp Miami Ops -- alerted them to SAR boat capsized at 2237.5N ??W advised they were finishing patrol landing St Petersburg Miami ops elected not to utilize them for SAR. (KW2)
5693.5 FDG: FAF Bordeaux 1730 CW CQ (DG)
5696 NMO: CommSta Honolulu 0920 USB wkg CG Rescue 1702. QSY to channel Alpha (5693) for secure voice comms. (AB3) Camslant Chesapeake 0820

USB wkg Rescue helo 6001 after the TWA disaster. 0745 USB Rescue 6041 clg CommSta Kodiak (AW) Group St Petersburg 0828 USB wkg RESCUE 6032 re crash of TWA flt 800, 6032 adv they had pulled their swimmer from the water & were heading in for fuel. (BWS) RESCUE 6001, 6017, 2107 0220 USB wkg Camslant. Boston & New Orleans also on freq - Airline Explosion. 61A 0225 USB wkg Camslant neg. contact 5 miles (CH) S4JG: 0439 USB clg "any station this net." S4JG seems to be having some trouble with her radio. Calls broken w/poor modulation (DW2) 33 CHARLIE: 0215 USB wkg CommSta Boston QSY 3E4. 33 Charlie 0046 USB w/CAMSLANT info for Panther. 61 ALPHA: 0213 USB wkg CAMSLANT coded posn rpt. A2Q: 1110 USB wkg CAMSLANT qsy to 3E7 - assume guard. CAMSLANT 1712 USB clg CG 6034 no joy. CAMSLANT 0208 USB clg CG 6001 USB wkg 6017 no joy (#1). CAMSLANT 0219 USB clg CG Rescue 6017 & 6001 no joy (#1). CAMSLANT 0221 USB clg CG Rescue 2107 no joy (#1). CAMSLANT 0129 USB wkg CG 2131 request rprt flt ops. CAMSLANT 0206 USB wkg CommSta Boston request call to B3W. CAMSLANT 0208 USB wkg B3W req rprt -- posn rprt 2950N 2965W. CAMSLANT 2132 USB clg CG 6021 no joy. Cape Cod Air: 1801 USB wkg CG Rescue 6001 confirm divert/direct to Nantucket w/refuel, Cape Air coordinating nurse requirement w/hospital. At 1806 adv patient to be aerovac'ed to Mass General Hospital (Boston MA), coordinating nurse ETA 22 minutes. CG 1503: 1730 USB wkg CAMSLANT securing guard landing Elizabeth City NC. CG 1504: 2018 USB wkg CAMSLANT req/accept guard enrt Mobile (AL) w/31 POB's. CG 1503: 2353 USB wkg CAMSLANT Request/Accept guard.(7/18 UT) CG 1712 0222 USB wkg CAMSPAC req/accept guard enrt to Sacramento AS. CG 2136: 1627USB wkg CAMSLANT Req/Accept guard HU25 a/c, dep Cape Cod AS local patrol 5 POB's. CG 2131 0149 USB wkg CAMSLANT securing guard landing (homeplate). CG 2107 2128 USB wkg CAMSLANT securing guard. CG 2129 2357 USB wkg CAMSLANT request/accept guard, ID'd as HU25 a/c from AS Miami w/5 POB's. CG 6009: 1131 USB wkg CommSta Boston, req/ accept guard located 3758N 8048W 4POB's enrt Charleston WV to ? NC. CG 6002: 1212 USB wkg CAMSLANT req/accept guard HH60 helo 5 POB's enrt Elizabeth City NC to Williams NC for over flight. CG 6001: 1629 USB wkg CommSta Boston Posn rpt 4158N 7030W. CG 6034 0045 USB wkg CAMSLANT rprt flt ops normal. CG 6007 2124 USB clg CommSta Boston no joy. CG 6033 2355 USB wkg CAMSLANT req/accept guard 6B's posn rprt 2630N 7838W homeplate AS Clearwater (FL). CG Rescue 6001: 1758 USB wkg CommSta Boston ETA Cape Air 24 minutes. At 1800, req divert directly and "hot refuel" at Nantucket. CG Rescue 6012 0049 USB wkg CAMSLANT req/accept guard homeplate Clearwater FL psn rpt 2814N 8309W. CommSta Boston: 1131 USB wkg CG 1715 request info --- flt ops normal. CommSta Boston: 1744 USB wkg CG 6001 request contact Cape Air via UHF regarding aerovac off island 56 yr old YL internal bleeding. At 1757 wkg CG Rescue 6001 req helo pickup medic at Cape Cod Air & refuel. CommSta New Orleans 0216 USB clg CG 6001 & 6017 no joy (#1). CommSta New Orleans 0221 USB clg CG Rescue 2107 no joy (#1). DELTA 1 VICTOR 0101 USB wkg CAMSLANT rprt flt ops normal. REACH 5000:(?)2005 USB wkg Comm Sta Boston radio ck -- loud & clear. (KW2) Rescue 1715: USCG HC-130H 0209 USB wkg NMN re req radio guard, airborne proceeding 3743N/5609W on a EPIRB activation. NRUF: USCGC Mohawk 0306 USB (WMEC-913) wkg cutters for course, posn & spd during hurricane sortie for hurricane Bertha. Cutters included NHPX, USCGC Nunivac (WPB-1306); NABS, USCGC Attu (WPB-1317); NPBB, USCGC Block Island (WPB-1344); NRKA, USCGC Manitou (WPB-1302) & NJEH, USCGC Vashion (WPB-1308). NHPX: USCGC Nunivac 0306 USB (WPB-1306) wkg USCGC Mohawk w/course, posn & spd during hurricane sortie for hurricane Bertha. NABS: USCGC Attu 0308 USB (WPB-1317) wkg USCGC Mohawk for same. NPBB: USCGC Block Island 0312 USB (WPB-1344) wkg USCGC Mohawk re hurricane sortie for Hurricane Bertha. NRKA: USCGC Manitou 0317 USB (WPB-1302) wkg USCGC Mohawk re same. NJEH: USCGC Vashion 0323 USB (WPB-1308) wkg USCGC Mohawk re they will "take them on the port side" during sortie for Hurricane Bertha. NMK: USCG Group Cape May 0441 USB USCG Group Cape May, Cape May, NJ, US clg USCGC Sanibel (WPB-1312) no joy, re op's for TWA Flt 800. CG 1714: HC-130H 0458 USB wkg NMO, CommSta Honolulu re a radio guard for local trainer, 1714 then calls NOJ, CommSta Kodiak & cancels their radio guard w/them advising they now have comms w/NMO. Rescue 2120: USCG HU-25A Falcon Jet 0502 USB wkg NMG, USCG CommSta New Orleans re request a radio guard, airborne w/5

POB on a medivac flight. NODN: USCGC Iris (WLB-395) 0506 USB clg Group Astoria (OR) no joy here. Rescue 6505: USCG HH-65A Dolphin 0508 USB wkg NMC, CAMSPAC Point Reyes w/flt op's normal report. NRDC: USCGC Campbell 0511 USB (WMEC-909) clg Group Moriches (NY), comms re op's for TWA Flt 800. NOS: USCG AirSta Cape Cod 0530 USB Ma, US "Cape Cod Air" clg Rescue 2107, who has them weak, CommSta Boston comes up & the 2107 gives a flt op's normal. NMO: USCG CommSta Honolulu 0532 USB Hi, US wkg CG 1714 (HC-130H) w/flight op's report. RESCUE 1501: USCG HC-130 1520 USB wkg RESCUE 1503 w/posn of DMB marking debris from TWA flt 800, 1503 was inbound to relieve the 1501. NRDC: USCGC Campbell 1725 USB (WMEC-909) wkg NMN re their HH-60 is airborne, passes ETA Cape Air (AirSta Cape Cod). (RB)

5705 NIGHTWATCH 01 0221 USB worked KIWIBIRD, complaining of interference (voice just up freq). NIGHTWATCH 01 0119 USB called HARMONIC. WAR46 0715 USB worked NIGHTWATCH 01. DOGPOUND 0552 USB att to work NIGHTWATCH 01, w/no success. DRAWKNIFE 0559 USB worked NIGHTWATCH, setting this freq as primary for DRAWKNIFE. At 0601z, DRAWKNIFE called KIWIBIRD, & was told by NIGHTWATCH 01 that KIWIBIRD & SILKCORN were on 7831. (JH)

5711 Cape Radio 2243 USB wkg a couple of additional stations concluding testing (JM)

5717 7 Halifax Military & Tuscar 11 no joy with neither successfully hearing one another. Halifax Military: 1435USB wkg ?305 Passed msg RCC has no traffic for him. Halifax Military 1637 USB wkg Rescue 304 w/pp Halifax Search -- pick up patient & also stranded people at washed out area verify with QPP all are out -- provided wx for Bay Como (not good rain & fog). Halifax Military 0222 USB wkg TUSCAR 05 who adv no traffic. Halifax Military 0232 USB clg Rescue 304 no joy. Rescue 304: 1403 USB wkg Halifax Military pp RCC Halifax --enrt eta on-scene 1600Z 30 nm off Grand Slide maintaining SELCAL watch & test "HQ-AM" to contact MRC Lorenz(a)?. Rescue 303: 0230 USB wkg Halifax Military HM requested 303 try & contact Rescue 304 to answer call from RCC. 303 advised they were landing in 10 minutes and would contact RCC via cellular phone. Rescue 304 0233 USB wkg Halifax Military pp RCC Halifax -- dispatch aerovac to south end lake (posn 4832N 6934W) for male with internal bleeding in cottage roads washed out no other way in no contact with cottage for 3 hours landing area is small quarry just north of track advised to use beacon at Riviere du Loup true north 47 nm --wx beacon area was 100 ft 1/8 mile in fog -- 304 adv he was continuing to Bagetville & was advised that Wg ops UHF freq was 227.0 mhz. TUSCAR 05: 0245 USB wkg Halifax Military pp RCC past info from TUSCAR 11 eta Quebec City 0600Z.6 Beadbat Clg NIGHTWATCH no joy id channel as Z175. (KW2)

5752.5 FDG: FAF Bordeaux 2342 CW CQ (DG)

5796.5 DEATHLY: 2247 USB clg PREAKNESS to authenticate YNXP & 7M6L. No further tfc to follow (RM)

5800 REMEDIAL 0210 USB (female operator; tune-up growl on signal) worked NIGHTWATCH 01. WAR46 0633 USB worked NIGHTWATCH 01, who told WAR46 to drop his landline connection. NW01 must've been coming out of monitor only mode. At 0721z, NIGHTWATCH 01 worked WAR46 for a signal check. MESSKIT 0301 USB worked NIGHTWATCH 01. NIGHTWATCH 01 0117 USB wkg HARMONIC. At 0516z, NEWBOOK called NIGHTWATCH 01, w/no response. NIGHTWATCH 01 0239 USB worked WAR46. RAINCELL 0443 USB called NIGHTWATCH 01. CATHEDRAL 1639 USB called NIGHTWATCH 01. (JH)

6236 Unid: 0434 USB w/ANDVT (aka "green") tfc, used by USCG during Haiti. (RB)

6379 4XZ: IN Haifa 2320 CW CQ (DG)

6389 CTP: NATO Lisbon 0130 CW CQ (DG)

6470 SXA24: GN Piraeus 2314 CW CQ (DG)

6501 NOJ: USCG CommSta Kodiak, 0532 USB Ak, US, wkg USCGC Sedge (WLB-402), not hrd on 6200. (RB)

6516 X3F: 1106 USB clg L7B no joy. (KW2)

6550 PBWW: CG SHIP Zeevalk 1034 USB clg CG Ymuiden. CG03: 1105 USB clg CG Centre ijmuiden. CG03: 1259 USB clg cg centre ijmuiden "req closing down on this frequency rtb to PBV" (BvR)

6680 SAM 201 0513 USB clg ANDREWS, w/no response. (JH) SAM 26000: USAF C-137C, Tail 62-6000 0328 USB wkg Andy w/pp Andrews meteo. (RB)

6691 ATTRITION 1632 USB wkg BOOMTOWN in voice, data, and ANDVT mode.

BOATDOCK 0505 USB worked BOOMTOWN. BOOMTOWN 0603 USB wkg ANKLEBONE in voice and data. BOOMTOWN moved ANKLEBONE to CHARLIE DELTA (not found) at 0631z. ANKLEBONE heard later at 1442z entering the net w/NIGHTWATCH 01 on 6757. (JH)

6712 ANDREWS 0630 USB w/26-character EAM at ANDREWS' post 0600z h+30 "repeat" EAM time, with string taken from OFFUTT broadcast at 0529z. At 0638z, OFFUTT with 20-character EAM "FOR TACAMO LANT SECONDARY" at common h+38 minutestamp for these abncp-type things. ANDREWS (one minute early) 0629 USB with 20/26/20 character EAM set (the last two strings taken from 0547z OFFUTT broadcast of same) at ANDREWS' post-0600z h+30 "repeat" EAM transmission time. NIGHTWATCH 01 0224 USB worked KIWIBIRD on ZULU 160. ANDREWS 0630 USB w/26-character EAM string at ANDREWS' post 0600z h+30 "repeat" EAM transmission time, w/the string taken from a 0541z OFFUTT transmission of same. (JH) SNOOP 55: USAF RC-135 0526 USB wkg unid GHFS, poss Croughton, w/pp to unid meteo (v.weak). (RB)

6713.5 Unid 0348 USB Good level U.S. EE activity w/two unid stations (missed id), one of which was "ALPHA 2 for HF2" (his second HF radio.) (JH)

6715 NEWBOOK 0523 USB clg NIGHTWATCH 01, w/no response, so moved to 5800. NEWBOOK back up at 0523z, this time raising NIGHTWATCH 01, & entered the net. No other players active, & "no current traffic." NIGHTWATCH 01 0448 USB w/26-character EAM set (first bcst on GHFS by OFFUTT at 0445z). NIGHTWATCH 01 then worked BARCANDY (female opr). At 0543z, NIGHTWATCH 01 worked BARCANDEY. At 0546z, NIGHTWATCH 01 worked WAR46. At 0623z, BARCANDY calls MACDILL, then NIGHTWATCH 01 calls BARCANDY. BALLPEN 1302 USB worked NIGHTWATCH 01. SYCAMORE (apparently aka LOOK 86) 0357 USB with 26-character EAM, simulcast on 6715/6739, preceding GHFS transmission of same. At 0358z, SYCAMORE worked NIGHTWATCH 01 and PLOWYOKE, confirming their receipt of this traffic. PLOWYOKE & SYCAMORE then went into a discussion of NIGHTWATCH 01's reception of "15 & 9". At 0414z, PLOWYOKE asked SYCAMORE "...if NIGHTWATCH got his m___ mode 9 (with m____ sounding like "meek in" or "modem"). Answer nas now, could he send again. PLOWYOKE replied "no" as they had already started "...to retract the wire." VLF chatter. At 0459z, PLOWYOKE worked SYCAMORE & the comment was made to "have your front end meet my front end on 6761. At 0517z, SYCAMORE broadcast as 26-character EAM. At 0718z, NIGHTWATCH 01 called WAR46. (JH)

6729 GROVE CONTROL: 1140 USB clg '6QP', posn 50 05n 001 30w FL200090Hdg 250kts - What is Grove Control and 6QP???? (JM3)

6730 NAVY 50511 0149 USB Andy confirmed 50511 was on freq (CH) (VP-3A Bureau No, 150511 -LOGS) SAM 682 0111 USB worked ANDREWS w/pp's. (JH)

6739 8UG 1217 USB Nimrod a/c, req wx for EGQS, EQPK & TAF for EGQL. (ANUK) Navy LY92S 0913 USB Thule (P-3C, VP-92) nothing heard (again the unit nr in the c/s) (BH) NATO 19: 0205 usb wkg Thule. unreadable chg to 8968 (CH) OFFUTT 0520 USB w/20/20/26 character EAM set over a six minute period. The 0520z/0540z is a "common" EAM window for these things, & they seem to "feed" the repeat EAM cycles of certain GHFS stations. In this case, ELMENDORF picked up the 26-character string of the 20/20/26 character set at 0540z, at ELMENDORF's h+40 "repeat" EAM broadcast time. GHFS stations 1233 USB w/20-character EAM "FOR RENTER." ELMENDORF 0521 USB with 2 EAMs at ELMENDORF's h+21/40 "repeat" EAM transmission times (0521z, 0540z). ELMENDORF 0509 USB initiating a FOXTROT broadcast prefaced w/ENLIST: CAJ 09 TQ echoed by HICKAM & other non-CONUS stations. Then, at 0512z ELMENDORF was back up initiating another FOXTROT broadcast still prefaced w/ENLIST consisting of same trigraph as follows: CAJ 12 CW. Echoed as before by non-CONUS stations. At 0521z, ELMENDORF was up w/26-character "repeat" EAM, and then again at 0540z. At 0537z, OFFUTT was up w/a 20-character EAM "FOR TACAMO PAC PRIMARY". About one minute earlier than "normal." At 0540z, ELMENDORF w/26/20 character EAM set at ELMENDORF's h+40 "repeat" EAM transmission time. AT 0547z, OFFUTT was up with another 26/20 character EAM set. ELMENDORF 0540 USB with 20-character EAM (taken from OFFUTT's (lead station) 0454z broadcast of same) at ELMENDORF's h+40 "repeat" EAM transmission time. In the qrn on freq it sounded as if she id'd herself as ANDREWS at the end of her transmission. OFFUTT 0655 USB as lead GHFS station w/81-character (+/-) EAM: PDRZVL... NEWBOOK 0512 USB clg MAINSAIL; no

response, so gone. ELMENDORF 0604 USB initiating a FOXTROT broadcast prefaced w/ENLIST: Q57 04 WK, picked up by HICKAM & other non CONUS stations. ELMENDORF 0540 USB keys up his circuit to broadcast an EAM at his h+40 "repeat" EAM time but he loses his link to a busy signal, the circuit apparently seized by OFFUTT for a 26-character EAM at 0541z. OFFUTT, 0452 USB as lead GHFS station, w/a 20/20 character EAM subset of a 20/20/26 character EAM set. OFFUTT had to disregard the first string in order to initiate a FOXTROT broadcast prefaced w/ FAIRLY. The concluding 26-character EAM string of this set was broadcast by ANDREWS as lead GHFS station at 0503z, indicating that ANDREWS assumed the master control station duties of the GHFS at 0500z (which would be local midnight at OFFUTT.) The concluding 26-character string was rebroadcast by ELMENDORF at 0540z, & was broadcast by OFFUTT at 0600z, possibly indicating that OFFUTT has a "repeat" EAM transmission time of h+00. At 0556z, S1G called "any Global station this net" with no response. At 0624z, H7U called "GLOBAL HICKAM", and then "any station this net", finally raising ELMENDORF at 0631z. At 0700z, TAMPA TIM called MACDILL, w/no response. ROWBOAT 0354 USB worked MACDILL & requested a freq for data. Moved to 9016. SPELLMAN (sounds like) 0530 USB called MAINSAIL & raised MCCLELLAN. Req pp to NIGHTWATCH 01. MCCLELLAN adv that there was no answer. SHADO 05 (USN E-6A) 0507 USB worked OFFUTT w/pp to common DSN 339 number id'd as SHADO MAINTENANCE. At 0518z, ANDREWS, as lead GHFS station, w/20/20/26 character EAM set over an eight minute period. At 0640z, ELMENDORF w/26-character EAM string taken from the 0518z 20/20/26 character EAM set of ANDREWS, at ELMENDORF's h+40 "repeat" EAM transmission time. At 0600z, OFFUTT up w/26-character EAM string taken from the 0518z 20/20/26 character EAM set of ANDREWS, at OFFUTT's apparently new h+00 "repeat" EAM transmission time. At completion of this transmission, SHADO 05 called OFFUTT AIRWAYS for another pp to his SHADO MAINTENANCE. At 0700z, OFFUTT back up w/same 26-character string as at 0600z. NIGHTWATCH 01 0147 USB called MAINSAIL "with request". No response. At 0412z, SANDWICH worked HICKAM, req NIGHTWATCH working frequencies: Z170/Z150. At 1446 USB Various GHFS stations w/78-character EAM: PD... (JH) ARCHITECT 2400 USB Royal AF coded airport wx/runway conditions. (KW2) TEAL 47: WC-130 53rd Wx Recon Sqd, at Kessler AFB, Ms 0456 USB clg MacDill, Elmendorf GHFS answers, att collect call pp to radio station WGN at a commercial number, Elmendorf adv unable to make a collect call. Hrd during hurricane Bertha. (RB)

6739.4 FDG: FAF Bordeaux 2125 CW CQ (DG)

6742 Unid: 0427 USB w/ANDVT (aka "green") tfc. (RB)

6745 Unid shipping: co, CAN 0147 ARQ sending selcall DXQK. (RB)

6750 Foxtrot Tango: USN Link-11 coordination net 0546 USB w/FT wkg INDIA re track ID, widely held to be Joint Inter-Agency Task Force -East (JIATF-E or ex-JTF4) Caribbean op's. (RB)

6751 SIDECAR XRAY: 0254 USB wkg Trenton Military pp DSN 884-XXXX dual pp?? -- SHARK 71 with Raymond 24 ops info (KW2)

6754 Magic 99 0912 USB wkg DHN66 (E-3A NAEWF) terminating pp. (BH)

6757 MESSKIT 0022 USB clg NIGHTWATCH 01; not hearing him; & moving to 11244. At 0037z, NIGHTWATCH 01 worked MESSKIT and set freq up as primary. At 0046z, MESSKIT went monitor only for undetermined time. At 0105z, NIGHTWATCH 01 called WAR46. At 0213z, NIGHTWATCH 01 called WAR46. At 0218z, MESSKIT worked NIGHTWATCH 01. Moved to 5800 at 0258z. At 0452z, SHOPWORN (sounds like) calls NIGHTWATCH 01 "on Zee 165". No response. NIGHTWATCH 01 0218 USB worked KIWIBIRD, w/both complaining of "data tones" (on this freq constantly, daily.) At 0230z, NIGHTWATCH 01 worked KIWIBIRD, & changed his transmitters (tune up growl) for better reception. LASTMAN 1301 USB clg NIGHTWATCH 01. Nothing heard and gone. ANKLEBONE 1437 USB worked NIGHTWATCH 01, & was moved to ZULU 210 (11229). At 1442z, ANKLEBONE worked NIGHTWATCH 01 and entered the net. ANKLEBONE had been active 8 hours earlier on 6691 wkg BOOMTOWN. At 1627z, ANKLEBONE called NIGHTWATCH 01, w/no success. NIGHTWATCH 01 (female opr) 0444 USB worked RAINCELL. NIGHTWATCH 01 0557 USB wkg DRAWKNIFE who entered the net. DRAWKNIFE told that KIWIBIRD and SILKCORN also in the net, & that 3VR2RW... was the current traffic. NIGHTWATCH 01 then had to correct himself, adv there was no current traffic. (JH)

6761 LOOK 86 0501 USB (apparently SYCAMORE in that local night's NIGHTWATCH net) clg PANEL 82 (apparently PLOWYOKE in that local night's NIGHTWATCH net.) This was followed by SHEP 82 clg LOOK 86. Apparently LOOK 86 was expecting the call to be PANEL 82. GASER 42 0046 USB clg "12". Probably ALTUS related comms. At 0150z, GASER 42 worked GASER 41. (JH) Gold 76/65/66/78/75 2210 USB various comms, talking about a/r times & rendezvous. A/R track 6 is mentioned. Gold 76 is on the ground at Moron. (JP2)
6766 ALTUS (maybe Command Post) 2026 USB briefly worked ? (missed callsign). (JH)
6910 A1AS radio checks, net 1602 USB national guard units? Weak, readable North of Atlanta (GG2) Tango 86 Quebec: 2101 USB clg Tango 86. No contact. (JM) (suspected units wkg Olympic Games in Atlanta -LOGS)
6936 'P': RUS-NY Kaliningrad 0602 CW P-marker (ANEU)
6966.1 FDI22: French Air Force 2053 CW CQ (DG)
6993 SAM 26000 0230 USB wkg Andrews pp DSN 627-6413 (CH) Air Force 2 0450 USB wkg Andrews VIP with signal checks. (JJ)
7375 HOPPER 77 (LCAC-77) at 1558 in USB wkg HOPPER 41 (LCAC-41) advising him to come up on AC4 (Assault Craft Unit 4, Little Creek, Va) frequency (7536.5 primary) for "the exercise". Suspect this new "HOPPER" frequency is what they call "radio 1". (RB)
7535 NMJE: USS Estocin (FFG-15) 1400 USB w/HF test of xmitters 1 thru 5. NVLA: USS Vella Gulf (CG-72) 1436 USB w/req for HF testing of xmitters. NICK: USS Nicholson (DD-982) 1454 USB clg/wkg SESEF w/start of HF radio checks. "Comm Center": Federal Bldg, Portsmouth, Va 1510 USB ID'ed by SESEF to confirm location, radio ck. SESEF Norfolk: Ships Electronic Systems Evaluation Facility, Ft Henry, Va., 1641 USB wkg 'Jose' at SESEF Mayport w/radio ck's. N/A: USS Ramage (DDG-61) 1743 USB w/HF xmittr testing. (RB)
7536.5 HOPPER 77 (LCAC-77), HOPPER 50 (LCAC-50), HOPPER 68 (LCAC-68) & HOPPER 41 (LCAC-41) all working AC4 (Assault Craft Unit 4, Little Creek, Va) re 1300 exercise to take place. LCAC's are the U.S. Navy's Landing Craft Air Cushioned hovercraft. (RB)
7635 KITTY HAWK 2: Civil Air Ptrl North Carolina 1525 USB clg KITTY HAWK 990. No joy. EMPIRE 405: 1636 USB (New York) w/ role call in progress for the Nat'l Command Net. Noted many station name changes from the Grove SW Directory #8. Tuned in toward end so here's all I was able to hear (didn't catch all of them): Southwest region: RED ROCK WILDWOOD OILWELL (guess Oklahoma) & TEXAS COCK(?) (has to be Texas); Rocky Mountain region: BLUE BASIN, STAR GARNET, BLACK GRANITE, UNCLE MIKE (Utah keeps its ident) & HIGH PLAINS; Pacific region: WESTERN TOWER BELL (?) PACIFIC FIREBRAND (Hawaii keeps ident) SILVER STATE (guess Nevada) BEAVER FOX (Oregon keeps ident) & SPOTTED OWL. (RM) (see this months Military Column for a complete updated list -LOGS)
7805 FDI8: FAF ? LOC 0538 CW Marker "vvv vvv vvv de FDI 8 ar". (DW)
7831 NIGHTWATCH 01 2352 USB w/26-character EAM. At 2355z, NIGHTWATCH 01 called BIRDNEST and WAR46. PANHURST 0051 USB called NIGHTWATCH 01. NIGHTWATCH 01 0237 USB clg REMEDIAL, who's still on 5800. TIDYSUM (sounds like) 1322 USB called NIGHTWATCH 01. At 1435z EXTRADITE worked NIGHTWATCH 01. During these comms, they flushed out a voice that popped up on freq with a "station calling, this is U.S. Air Force _____". Missed the callsign, but it sounded like ALPHA ALPHA ?, then a few numbers or so, but not a MARS call. No response, and net moved to 9016. NIGHTWATCH 01 0228 USB worked KIWIBIRD. NIGHTWATCH 01 asked KIWIBIRD to pick his best freq: ZULU 165. GRAYMARE 1651 USB worked NIGHTWATCH 01. LASTMAN 1258 USB clg NIGHTWATCH 01. BEEHONEY 1739 USB wkg NIGHTWATCH 01. HATHAWAY 1641 USB called NIGHTWATCH 01, w/no response. SANDWICH (USN) 0419 USB worked NIGHTWATCH 01 (very heavy data xmsn qrm within receiver's passband), and entered the net. At 0432z, MEREDITH worked NIGHTWATCH 01; then at 0435z, MEREDITH worked SANDWICH. URGENT (sounds like) 1558 USB worked NIGHTWATCH 01. DOGPOUND 0552 USB called NIGHTWATCH 01. Moved to 5705. Back up here at 0555z, where WAR46 attempted to raise DOGPOUND. TESTPOD (sounds like) 1342 USB called NIGHTWATCH 01. DRAWKNIFE 0612 USB calls & works SILKCORN, and asks if SILKCORN can perform a T-quad at this time. Answer: negative. (JH)
7859 FDI22: 1023 CW CQ (DG)
FDI22: FAF ? LOC 1424 CW Marker "vvv de FDI22 ar". (DW)

7919 HERKY 01: 0658 USB wkg METAPHOR. '01 is at posn 48N 05.50E & wants to know if METAPHOR can handle a C-130. They also report that they are 112 miles from Ramstein. METAPHOR asks '01 to QSY to 'their other freq' 4612. (GT)
8025.5 Foxtrot Tango: USN Link-11 coordination net 0530 USB w/FT wkg J8I, 1FI, others w/track ID info, FT widely held to be associated w/ Joint Inter-Agency Task Force -East (JIATF-E or ex-JTF4) Caribbean op's. (RB)
8026 SAM 974 0456 USB worked ANDREWS. (JH)
8027.5 Unid 0010 USB Very weak, military sounding, unIDed passing crew members names, DOBs, and SSNs. (JJ)
8058 NAVY 50511 0317 USB calling Andrews for radio check on 'primary'...is this a new frequency? (TB)
8156 Royal Bahamas Self Defense Force 2258 USB SS2, unid, wkg MT (C6MT?), adv proceed to lat/lon given, poss looking for vsl in distress, discussion of rough seas. Hrd near end of Hurricane Bertha. At 0210, SS2 clg "Coral Harbour" (SDF HQ). (RB)
8297 AADS: USAV Runneymeade 2204 USB Clg AAC2. yl operator. AAFA: USAV SP4 James Loux 2206 USB Clg AAC2. (IB)
8335.5 DRAT: FGS Emden (F-210) 0351 USB German Navy Frigate, clg/wkg DHJ-59, Wilhelmshaven Naval, D, for encrypted RTTY tfc. DRAZ: FGS Nordwind (Y-834) 0420 USB German Navy sailing ketch used for training, clg/wkg DHJ-59 for encrypted RTTY tfc. (RB)
8965 ONE YANKEE HOTEL and ONE YANKEE YANKEE 0455 USB briefly active on freq, in non-U.S. EE. A posn was given of 18 30N 065 611W, which is maybe around the Virgin Islands. (JH)
8967 Lajes 2100 USB clg ???? (JM3)
8968 ROPER 83: 2012 USB w/pp to DSN # 874-3256 (Dallas NAS ANG C.P./ROPER Ops). ROPER 83 advised their ETA to base was 2230Z. ROPER 83 is a TX ANG C-130 a/c out of NAS Dallas. (BWS) SPAR 67: 0047 USB wkg Thule w/pp Ramstein metro ETAR 0515z will contact flight deck ltr to give good pirep. (How big is this a/c)? NATO 19: 0205 usb wkg Thule. Needed Trent or Edmonton mil on HF for pp but didn't have freq book. Part of Bosnian effort. Took pp through Thule on discreet freq 8989 (F500) (CH) ORIOLE 1929 USB w/att pp to a commercial area code 904 number, then later to a DSN 960 prefix that has been associated w/MAYPORT, FL. Sure enough, lots of MAYPORT chatter, including something that sounded sorta like a "jacko water repair" or somesuch. Presumed USN "ORIOLE". PLOWYOKE 0459 USB worked unid GHFS station (missed id), getting working frequencies for NIGHTWATCH: Z160/Z135. (He must've lost the net, as he was active on 6715 just 30 minutes earlier.) Q3H 1435 USB called "any GLOBAL STATION." No response. R1E 0428 USB worked X5H. (JH) Andrews 0122 USB EAM Sky King "IKY". DIXIE 04: 0241 USB clg "Skyking answered by Incirlik(?) told Incirlik they were barely readable & ended exchange.(#1) Offutt 0157 USB Skyking EAM "Zulu 6 Papa". Offutt 1350 USB EAM "PIXNCI...". PERMISSIBLE: 0156 USB clg MAINSAIL no joy. REACH 3437: 0154 USB wkg Lajes pp metro -- wx Ramstein. (KW2) Bear 600 2130 USB clg Andrews. No answer heard (LB2) (E-2C of VAW-124 "Bear Aces" -LOGS) SHOELACE 0126 USB w/at least 2 EAM's...PIRQW7 and PITDCZ. (MJ) LODGES (Lajes GHFS, Azores - LOGS) USB wkg ANGRYMAN, pp w/ROWBOAT, almost immediately ANGRYMAN signs off with nothing further. (MM4) TEAL 54: WC-130 53rd Wx Recon Sqd, at Kessler AFB, Ms 1529 USB wkg Offutt GHFS, pp GUNRUNNER (AF Reserve HQ) re departed 1510. (RB)
8974 DRAGON 124: 33 Sqd, 707 tanker, FJ-EL, A20-624 2112 USB wkg RAAF Perth This is a tactical call sign, usuall 707 call is WINDSOR. STALION 086: C-130H 36 sqd 2156 USB w/RAAF Sydney. SUMO 2202 USB w/ RAAF Perth one of our US mate's coming Down Under, he was 2khz off freq, but passed his arrival time & fuel figures none the less. NAV-TRAINER 601 2236 USB wkg RAAF Perth, on the ground at RAAF base East Sale in Victoria, this call sign is very unusual, i have never picked it up before, it's used by the HS-748s of the RAAF School of Air Navigation. WINDSOR 096: 33 Sqd 707 tanker 0147 USB wkg RAAF Townsville. Aussi 208 0158 USB w/AF Sydney Looking for terminal forecast Amberley. Stalion 016: C-130H 36sqd A97-011 LP-HK 0159 USB wkg AF Sydney w/"Opp's normal". Shepherd 149: P-3 Orion 0205 USB wkg AF Sydney. HERITAGE 798 0218 USB wkg AF Perth, this is an RAAF Museum aircraft, poss the DC-3 VH-CIN. Aussi 26 0234 USB wkg AF Sydney w/

"opp's normal". (SB)
8983 A2Q: 1108 USB clg Camslant no joy. NMN: CAMSLANT Chesapeake, Va US 1712 USB clg CG 6034 no joy. ROMEO 8 FOXTROT: 0233 USB clg CommSta New Orleans, NMG, no joy. (KW2) RESCUE 1501: USCG HC-130 1452 USB wkg NMN w/pp D-1 Command Center re 1501 is to refuel at AirSta Cape Cod, & return to unid SAR area for a 990 mile track-line search. (RB)
8989 NATO 19: 0135 USB pp through Thule. NATO 19 got the Trenton 11232 freq. from Thule At 0145 Trenton Military asked Thule for NATO 19's c/s. Then contacted NATO 19 on 8989 and told them to use 9007 or 6745. Trenton adv 6745 is for evenings & 9007 & 11232 are primary ch. (BWS) NATO 19: 0207 usb wkg Thule w/private state side pp attempts. Req Trenton HF freq and given 11232 as only one, no backup. Trenton were then heard on 8989 wkg Thule and then NATO 19. (CH)
8992 GERMAN Air Force 001 0235 USB wkg MacDill w/pp McGuire Metro wx for 0600z (CH) MACDILL 1519 USB w/PI... EAM followed immediately w/20-character 3V... EAM (a rare example of the static series changing during same broadcast time.) NIGHTWATCH 01 1535 USB worked MACDILL (after moving here from 11175, passed a voice EAM string to MACDILL. At 1540z, MACDILL adv NIGHTWATCH 01 that he had injected the message into AUTODIN, and the GHFS lit up with MCCLELLAN's transmission of same: 3VGLNH... (JH) DEADBALL: 1047 USB wkg MacDill radio ck. MANISIBLE: 0201USB wkg MacDill, req Nigthwatch freqs, given Primary Z175 & alternate Z185. MOTOWN 1: 1115 USB wkg MacDill pp Westover AFRB ops wx problems will bypass land Grand Rapids. YANKEE 71: 1808 USB wkg MacDill pp YANKEE OPS base (Stewart ANG/AFRES Base?). (KW2) Reach 5302 0000 USB wkg MacDill re are Alpha 2 maybe 3. SPAR 19 0001 USB clg MacDill (LB2)
9007 CANFOR 2252 2147 USB clg Trenton Military no joy --gave posn as Antigua. CANFOR 2711 2148 USB wkg Trenton Military need helo & physician upon arrival Stephenville -- ill crew member question of food poisoning at Greenwood. SIDECAR XRAY: 0254 USB wkg Trenton Military pp DSN 884-XXXX dual pp?? -- SHARK 71 w/Raymond 24 ops info. Trenton Military 2126 USB wkg unid a/c, will maintain SELCAL watch on frequency. (KW2)
9011.4 HABITAT 0300 USB requests OSCAR-3 try for contact on UHF channel, "INDIA-DELTA." (No joy on ID.) O3 said he would try again later. (JJ) HABITAT 0158 USB on self-IDed W-03 working OSCAR-0. Talked about going to W-02. (Maybe 6719.4?) (JJ)
9013 Unid aero: LWB AF Buenos Aires? 0204 USB w/SS aero comms, LWB listed here never logged on WUN. (RB)
9014 REACH 0275 0144 USB wkg RAYMOND 07 w/pp to HILDA (TACC) WEST, giving RAYMOND 07 the DSN number for "COMPUTER FLIGHT PLAN" instead. REACH 0275 was looking for info on a tanker out of 927th Aerial Refuelling Wing. GEMINI 93 1851 USB called RAYMOND 07. DARKSTAR NOVEMBER called RAYMOND 07. Neither station received a response. TUFF 15 0123 USB worked RAYMOND 07 w/pp to RAYMOND 06. At 1750z, "92" worked "91, w/the comment "split off on the go." (JH) TUFF 15 0130 USB wkg RAYMOND 07 for pp to MUDBUG. TUFF 15 wants to know if TURBO can rendezvous for refueling ops early. (JJ)
9016 SPAR 84: 0100 USB moved here from 15016 but all I cud hear was an eta of 2110 (CH) SYMPHONY 1540 USB worked NIGHTWATCH 01. NAMEPLATE (maybe not a regular player in these nets) 0521 USB worked NIGHTWATCH 01 (female opr), & left the net. At 0558z, MUNICIPAL (sounds like) wkg NIGHTWATCH 01. RENTALCAR 1503 USB wkg NIGHTWATCH 01. At 1939z, RENTALCAR w/26-character EAM (OFFUTT at 1943z on GHFS w/same string.) At 1948z, RENTALCAR wkg SKYBOUND (probable USN). At 2343z, AMBITIOUS called NIGHTWATCH 01. At 2345z, SKYBOUND called AMBITIOUS. SURVIVAL 1325 USB worked NIGHTWATCH 01. PANHURST 0209 USB worked NIGHTWATCH 01 on net's secondary freq. At 0240z, REMEDIAL worked NIGHTWATCH 01. At 0242z, REMEDIAL worked NIGHTWATCH 01 & entered the net. At 0405z, REMEDIAL worked NIGHTWATCH 01 finally telling NIGHTWATCH 01 that she is returning to landline at this time. PETTYSUM (or something similar, such as TIDYSUM) 0119 USB called NIGHTWATCH 01. EXTRADITE 1432 USB called and worked NIGHTWATCH 01. At 1720z, NIGHTWATCH 02 worked NIGHTWATCH 01 (fair to weak), w/req for a data check. Finally into data at 1757z. At 1813z, NIGHTWATCH 02 worked LIFEBUOY. NIGHT-WATCH 02 complained of "noise" on freq (unheard here), so they moved to Z185 (9809.0) to get away from the "noise" (!). REYNOLDS (USN)

0750 USB wkg NIGHTWATCH 01. At 1442z, NIGHTWATCH 01 worked REYNOLDS & PINWHEEL. At 1445z, NIGHTWATCH 01 told REYNOLDS to stand by for traffic; immediately followed with EAM string from PINWHEEL. At 1528z, PINWHEEL was back up with another EAM string (concurrent w/ GHFS rotation of same). At 1535z, REYNOLDS worked NIGHTWATCH 01 & exited the net,followed immediately with AIDFIRST checking into the net. At1619z, PINWHEEL w/another EAM string, confirming same w/ AIDFIRST. At 1625z, PINWHEEL w/20-character EAM string trailing OFFUTT's broadcast of same on GHFS. MESSKIT 0020 USB wkg NIGHTWATCH 01 & moving to ZULU 165, where MESSKIT lost him. Finally back on 9016, MESSKIT worked NIGHTWATCH 01 & entered the net. No other players in net. NIGHTWATCH 01 0217 USB wkg KIWIBIRD. ANDREWS GLOBAL 0048 USB called SPAR 84, and then called MACDILL, w/MACDILL responding. At 0050z, SPAR 84 calls ANDREWS GLOBAL, & raises same at 0053z. LASTMAN 1208 USB clg NIGHTWATCH 01. At 1509z, MOTORIST worked NIGHTWATCH 01 & entered the net. NIGHTWATCH 01 0116 USB worked HARMONIC, moved to ZULU 150. ROADMAP 1315 USB worked NIGHTWATCH 01 & entered the net. ROMANLAD then worked ROADMAP and entered the net through ROADMAP. At 1522z ROADMAP worked NIGHTWATCH 01; told NW01 that NEWBOOK is in net (NEWBOOK entered the net at 0523z); & then went through the challenge process. BROWNRAT 0932 USB clg NIGHTWATCH 01, no response. BROWNRAT back up at 0936z clg NIGHTWATCH 01, again w/no response. BROWNRAT then exits the net in the blind. He passes (in the blind) a two-character challenge group instead of a 3 character group. BARCANDY 0632 USB worked MACDILL in voice & data. MACDILL 0355 USB worked ROWBOAT in voice and data. At 0424z, ROWBOAT worked _____ (did not sound like NIGHTWATCH 01), & entered the net. ROWBOAT was told that there were no other players in the net. RELIABLE 1338 USB wkg NIGHTWATCH 01. SPEEDBOAT 1625 USB worked NIGHTWATCH 01. Same at 1728z. WAR46 0122 USB worked NIGHTWATCH 01 in a signal check. At 0619z, LASTMAN worked NIGHTWATCH 01. At 1316z, NIGHTWATCH 01 (female opr) active on freq. At 1404z, HARMONY called NIGHTWATCH 01. At 1412z, LASTMAN worked NIGHTWATCH 01. At 1605z LASTMAN called NIGHTWATCH 01, but raised BIGBURLEY (LASTMAN was trying to check out of the net.) At 1616z, LASTMAN called NIGHTWATCH 01 w/no response, so he checked out of the net in the blind. As seems to be the recent case, when he passed his challenge characters, it was two character not three. HATHAWAY 1640 USB wkg NIGHTWATCH 01. SANDWICH 0439 USB called NIGHTWATCH 01. NIGHTWATCH 01 (female opr) 1553 USB worked URGENT (sounds like, may have been something else.) At 1637z, CATHEDRAL worked NIGHTWATCH 01. At 1745z, CATHEDRAL called NIGHTWATCH 01. At 2250z, NIGHTWATCH 01 worked ADDRESSEE, both went into eventually successful data comms with each other. At 2318z, NIGHTWATCH 01 (probable USN opr) worked MEREDITH, w/MEREDITH entering the net. At 2323z, WAR46 worked NIGHTWATCH 01 in a signal check. NIGHTWATCH 01 went monitor-only for 30 minutes. PARTTIME 0431 USB worked NIGHTWATCH 01. At 0440z, TABLETOP called NIGHTWATCH 01. ABOUTSHIP (sounds like) 1421 USB worked NIGHTWATCH 01 & entered the net. No current traffic, and NOVELIST also in the net. At 1525z, ABOUTSHIP worked NOVELIST & NIGHTWATCH 01. At 1806z, ABOUTSHIP with 26-character EAM (preceding the GHFS broadcast of same), //9016 & 6739. NIGHTWATCH 01 0103 USB worked MACDILL, w/pp placed to a common DSN 939 number usually associated with NIGHTWATCH 01. Hi 'n bye connectivity check. At 0416z, COALSACK (sounds like, maybe) worked NIGHTWATCH 01, & passed a couple of EAMs, w/one read-through. NIGHTWATCH 01 1445 USB worked MCCLELLAN, & attempted to set up data transmission. MCCLELLAN had to beg off for an hour or so, as MCCLELLAN's equipment was not yet ready to receive data. PACKMULE 1641 USB clg NIGHTWATCH 01. NIGHTWATCH 01 1454 USB w/EAM to DRAWKNIFE (in the net since around 0600z.) At 1529z DRAWKNIFE calls & raises NIGHTWATCH 01 "on nine upper", & exits the net. (JH) NIGHWATCH 0158 USB wkg MacDill ops data. (KW2) Reach 5302 005 USB clg MacDill no contact. Pep Rally 0112 USB clg Nightwatch 01. Stanwick 0119 USB clg Nightwatch 01. Stanwick 0120 USB clg Pep Rally. (LB2) RECKLESS 0251 USB wkg Nightwatch 01 terminating data test due to equipment problems. This terminated efforts begun at 0220 to pass data via HF modem. (MJ)

9017 ANDREWS 0556 USB wkg AIR FORCE TWO. Out and about late at local

night (JH) SAM 375 0058 USB wkg Andrews w/pp to fleet service.(MJ)
9018 "93" 0216 USB wkg ? regarding thunderstorm cells from MAXWELL to north of MONTGOMERY (Alabama.) (JH)
9023 CRISCO 1800 USB wkg stations whose id's I could not make out. (JH)
9031 NATO 35 1313 USB Architect w/TAF. NATO 40 1316 USB Architect w/wx for EGXW, EGCC, EGPK also R/C. T8T 1609 USB Nimrod a/c, Architect w/TAF for ENZV. Ascot 5021 1254 USB Departed Brize Norton 1225 enrt Bruggen ETA 1355 selcal AH-KL. Rafair 4C21 1321 USB Architect arrived LZSL closing down HF. IFN 83 1508 USB Architect departed Split LDSP 1450 est Lyneham 1855 relay K selcal AK-EG (ANUK) ASCOT 9476: 0129 USB wkg Architect w/selcal ck DJ-BC. At 0154 asked for a taf for PANC (CH) RRR1657 1033 USB Architect/Msg.to go to Sqdn ops,Standard relay R -Delay in dep. due to new ATC slot,New ETD LFLX 1155/1200 ETA EGWU 1300/05. 4FD41 1036 USB Architect/Heli. dep.EGVO 1030 req.listening watch. (RD3)
9057 NIGHTWATCH 01 1620 USB worked OVERWRITE. They then moved to ZULU 240 (currently unknown here, and not found.) (JH)
9210 IDR: I-NY Roma 1749 USB in QSO with IADP (ANEU)
9270 Andrews VIP 2216 USB checking SAM 26000, out of Offutt AFB location, on "primary F-517." (JJ)
9292 VEX: CFB(?) Penhold, AB, CAN 0214 USB wkg unid CIX204 w/comms ck, very weak here, nothing further hrd, maybe they went for Ch.1! (RB)
9320 SAM 28000 2150 USB on the ground at MOFFETT, wkg Andrews VIP w/signal cks. Also heard on 8058 (probably F-054, but not confirmed here) & 6986. Then at 2206z, from 6986.0, moved to F-476.....not found. EXECUTIVE-ONE-FOXTROT 2300 USB, enrt to Scott AFB, wkg Andrews VIP for pp to DSN 576-XXXX (Scott AFB) and 011-82-333-661-XXXX (Korea) (JJ)
9809 DEADBALL (or DEADBOLT) 1625 USB clg NIGHTWATCH 01, w/nothing heard so moved to Z205 (11494). Strong het on freq from swbc station on 9810. NIGHTWATCH 02 1814 USB worked LIFEBUOY. NIGHTWATCH 02 complained of "noise", so they moved to 11494. (JH)
10204 SYMPHONY 1532 USB wkg NIGHTWATCH 01 in the clear & ANDVT. SYMPHONY then went into the challenge process with NIGHTWATCH 01, and kept getting the single-letter response to NIGHTWATCH 01's 3-character challenge wrong. NIGHTWATCH 01 finally told SYMPHONY to "review the first couple of pages of your document, and give me a call latter." Within minutes, SYMPHONY was back up, & this time completed the challenge process correctly. They are still struggling w/this new 3-character procedure. At 1759z, NIGHTWATCH 01 called INTERVIEW; then SYMPHONY called NIGHTWATCH 01 for a radio check. At 1834z, SYMPHONY called NIGHTWATCH 01 "with request", but was answered by INTERVIEW. SYMPHONY exited the net through INTERVIEW, w/correct challenge procedure. At 2005z, NIGHTWATCH 01 with 26-character EAM, w/INTERVIEW acknowledging this traffic (OFFUTT bcst the string on the GHFS at 2013z.) At 2008z, NIGHTWATCH 01 calls ROCKAWAY; at 2009 INTERVIEW worked ROCKAWAY. All operators (including NIGHTWATCH 01) appeared to be USN trained. WAR46 0126 USB called NIGHTWATCH ONE. NAMEPLATE 0520 USB worked NIGHTWATCH 01. VAGABOND 1608 USB worked NIGHTWATCH 01. Then NIGHTWATCH 01 called & raised WAR46 for a signal check. AT 1616z, NIGHTWATCH 01 worked OVERWRITE (sounds like). At 2137z, VAGABOND called NIGHTWATCH 01. Immediately NARCOTIC apparently high up in the net pecking order; USN - heavy usage of "kick/kicking" for freq changes, a number of "belay that's, & other USN net chatter) was up & wkg VAGABOND. At 2143z, VAGABOND worked NARCOTIC & left the net. At 2144z, NARCOTIC worked RINGBONE. At 2257z, RINGBONE worked NIGHTWATCH 01. At 2305z, NARCOTIC called NIGHTWATCH 01, then "any station this net." At 2310z,NARCOTIC called NIGHTWATCH 01 "on WHISKEY, uh, ZULU 190." NIGHTWATCH 01 1749 USB worked WAR46 w/a signal check. Freq barely active throughout local afternoon. NIGHTWATCH 01 2027 USB called SKYBOUND. NIGHTWATCH 01 1714 USB worked SKILIFT, SURVIVAL, & attempted WAR46. At 1715z, ARCTICFOX worked NIGHTWATCH 01 & enter the net through the challenge process. At 1821z, SKILIFT worked ARCTICFOX and SURVIVAL. At 1830z, SKILIFT w/ 121-character (+/-) EAM: UPJRJI... During SKILIFT's broadcast of the string, another voice in the background was busy with a string as well. At 1948z, NIGHTWATCH 01 called NIGHTWATCH 02. At 2350z, NIGHTWATCH 01 called BIRDNEST. PANHURST 0051 USB called NIGHTWATCH

01, & then in the blind spelled his call as PANHURT, but pronounced it PANHURST. At 0206z, PANHURST worked NIGHTWATCH 01. EXTRADITE 1440 USB worked NIGHTWATCH 01. WAR46 2148 USB clg NIGHTWATCH 01 for a radio check. WAR46 0220 clg NIGHTWATCH 01 for a radio check. SHOPWORN & STRINGENT (sounds like) 1546 USB wkg NIGHTWATCH 01, followed by INCLUSIVE who entered the net (1549z.) At 1554z, NIGHTWATCH 01 w/ EAM, followed by confirmation from INCLUSIVE and attempted SHOPWORN. During these comms, the comment was made (approx quotes) "...wire note via WHISKEY BRAVO; good comms with station EVANS." (maybe) EVANS has been referenced before over the past years, and seems to be a static call for a comm position at TINKER (maybe) involved with or near BOOMTOWN. At 1656z SHOPWORN works NIGHTWATCH 01 and exits the net. At 1850z, WAR46 called NIGHTWATCH 01, but worked INCLUSIVE. LASTMAN 1209 USB clg NIGHTWACH 01. Moved to 11175.0. At 1526z NIGHTWATCH 01 w/20-character EAM (3VRMNS...). BEEH0NEY 1740 USB worked NIGHTWATCH 01. HATHAWAY 1640 USB worked NIGHTWATCH 01. At 1816z, NIGHTWATCH 01 (female opr) worked NOMINATE. At 1835z, BLUEBERRY called NIGHTWATCH 01. (JH) SHOPWORN 1655 USB wkg INCLUSIVE checking out of the net. (MJ) NIGHTWATCH: 2318 USB wkg BIRDNEST re data to send on Z190. (RB)

10284 VEX: CFB(?) Penhold, AB, CAN 0213 USB wkg unid CIX204 w/comms ck on "Ch.3", getting better, req try Ch.2 & passes freq of 9292. (RB)

10295 Unid: Swedish MIL (?) 0638 USB simplex tfc. in Swedish (ANEU)

10315 Many German Navy stations 1652 USB NUKO messages (ANEU)

10512 AQPx: Pakistan Navy, Karachi 1936 CW VVV DE AQP2/4/5/6/8 (ANEU) AQP: Pakistan Navy 1145 CW station marker (EW) AQP8: Pakistani Navy, Karachi, PAK 1910 CW VVV AQP 2/4/5/6/8; //2457.5, 6390, 8490, 13011. (JD2)

10606 IDR: Italian Navy, Roma 1038 USB tfc. to various stations (ANEU)

10700 RAL 2: UNID RUS-NY 1943 CW calling RCQ64, req. QSY to 13481 (ANEU)

10722 DHJ59: D-NY Wilhelmshaven UTC? USB QSO with DRAT, frigate 'Emden'. (ANEU)

10767 AJO: USAF Adana 1504 USB wkg. UNID a/c (ANEU)

10920 VEX: CFB(?) Penhold, AB, CAN 0211 USB wkg unid CIX204 w/comms ck on "Ch.4", req try Ch.3 & passes freq of 10284. (RB)

11053 SAM 26000 0447 USB worked ANDREWS w/pp. (JH) SAM 26000 wkg Andrews w/pp traffic. SAM 26000 1658 USB signal checks Andrews VIP. PACOM 01 & SAM 206 are weak readable; SAM 26000 is loud & clear on 11053. TROUT 99 0412 USB wkg Andrews VIP for pp to Air Force OPS...Departed North Island 0404z; ETA Andews 0830z...Secondary freq. is 6730. (JJ)

11056 SAM 206 1658 USB signal checks Andrews VIP. (JJ) Andrews VIP: 0421 USB wkg unid w/rdo ck's, poss was SAM 26000. (RB)

11158 Unid: ANDVT comms 2353 USB (RB)

11175 Reach 0089 1451 USB Wkg. Croughton pp w/Banter Control, Mildenhall DSN 238-2121. 1 hour out, 10 space A, 11,200 lbs cargo,1pallet Haz, A1 status. Navy JM1E1 1510 USB Wkg. Croughton pp DSN 624-2604 QSY 17.976 (ANUK) Reach 50BL 1316 USB nothing heard. Herky 913 2027 Croughton (C-130) pp .... command post: A2 for 1) left ox indicator inop 2) DTC intermittent 3) left front main tyre showing cord. Quiet hrs waver till 2100, call UHF for parking. Shark 86 2143 USB Albrook dep (unreadable, ICAO starts w/S, so Southern America) 2120 eta Howard .... (weak and interfered by lots of flash-traffic). BONE 42 2149 USB w/MacDill (B-1B, 28 BW, Ellsworth) MacDill called, at 2204 Bone 42 called MacDill, no joy unfortunately :-(I could hear them both in the Netherlands. DOG 02 2150 USB MacDill pp DSN 582-4205 (MCAS Cherry Point), trying to setup a line out, I assume for moral call, nr. for Base Ops = 2750, req ext 0001. After they got disconnected, MacDill started if this was moral or official business: cancel the request, 10 min before landing. (this may be spelled DAWG -LOGS) Navy UT612 2202 USB Ascension (P-3C) pp DSN 564-3922 (NAS Norfolk Air Traffic Control): relay to Base Ops: P-3C eta 2237Z request fuel. No refuel till 1930 local. Reach 2566 USB Mainsail radio ck (Croughton OK, also as Reach 2655...). SLAM 13 1013 USB Mainsail, radio ck (Croughton OK, is Dragon 75?). Reach 207 1019 USB Andrews pp PMSV wx KHOP (Campbell AAF, Kentucky) 1130. DRAGON 75 1022 USB Mainsail radio check (no joy, this one was clg several times for a r/c, at some time immediately thereafter the above Slam 13 called & the modulation sounded exactly the same... same flight???). Reach

0031 1023 USB Croughton (C-141B, 67-0031) pp Mildenhall PMSV wx EGUN 1315, pirep: C-141 5437n 3545w. pp Mildenhall AMCC: (now clg as 70031) etb 1325 A2: nr.1/2/4 fuel quantity indicator (auto calibration?). Navy 7326 1043 Croughton radio check (EP-3E 157326?) Baker 1046 USB Croughton message traffic in 7 groups (tri-graph). Aircraft 1791 1043 USB any station radio check (BH) TUFF 12:0233 USB (B-52H bomber out of Barksdale AFB) pp. to RAYMOND 06 (Barksdale ACC Command Post) regarding the use of the Harrison Range. KING 672 0145 USB w/a very "morale" sounding pp, caller adv she was clg from an E-2 & was currently flying over California. (BWS) (no doubt from the "Sun Kings" of VAW-116 out of Miramar, Ca -LOGS) REACH 8233 2238 USB wkg Ascension pp Ramstein. COBRA 08 2300 USB wkg Ascension pp Offutt (Raymond 21?). SHARK 18 2307 USB wkg Albrook. GASSER 93 0140 USB wkg Andrews pp DSN 872 150 Offutt answered. NAVY 50511 0141 USB wkg Andrews req contact (presidential ?) for freqs. Relayed route. pp said will be on 267 (6730 usb) in 5 minutes. IFO 06A: 1751 USB wkg Incirlik. REACH 509B: 1155 USB clg mainsail, no answer. TIGER 41: 0052 USB wkg Ascension w/pp Raymond 33 off gnd 2311, code 1 jet. REACH 9405: 0115 USB wkg Ascension w/pp Hilda East. 7X3 mission eta blocks at Keflavik 0245z. pp w/Keflavik metro. HERKEY 01: 1320 USB wkg Ascension. Croughton: 2212 USB w/all freq req for Reach 70045. HERKEY 106KY: 2212 USB wkg Incirlik w/pp... NAVY RU841: 2325 wkg Ascension. avy C130 (NATO flight). pp 476 2356 metro. REACH 59413: 2329 wkg Offutt. REACH 207: 2335 wkg Offutt w/rdo ck. 2350 Offutt w/ All freq reg for TUFF 16 (CH) HERKY 01: 0651 USB wkg Incirlik GHFS. '01 wants to know the HF freqs for station METAPHOR at Ramstein. About a minute later Incirlik calls '01 back. '01 says he wants a pp to Ramstein Command Post. When in contact they ask the C-P the same question & a minute later are told '7919'. (GT) AAEH: USAV Macon: 2230 USB Wkg Andrews. weak. KING-87 2119 USB Wkg Ascension Global (IB) DARK 41 1521 USB calling DARK 42, then DARK 41 worked OFFUTT. At 1435z, OFFUTT with 20/20/26 character EAM set over a 14 minute period. JAPAN NAVY 5030 1550 USB wkg OFFUTT w/pp request to a DSN 735 number. ONE YANKEE MIKE 1934 worked MACDILL w/pp to OSCAR SIX JULIET. At 2258z, XRAY FOUR GULF calling "any radio" and answered by ALBROOK. At 2350z, AMBITIOUS worked ALBROOK w/pp to NIGHTWATCH 01, getting working freqs for net (Z205/Z185.). TANGO FIVE INDIA 1412 USB clg "SKYKING for radio check", then called HICKAM GLOBAL. GORDO 11 1404 USB clg ? for a signal check. Within moments, NIGHTWATCH 01 up on freq working MACDILL for a pp to a common DSN 939 number. MACDILL moved them to 8992, and finally 15016. ORIOLE 1925 USB worked OFFUTT, who req he move to 8968. OFFUTT, 1709 USB as lead GHFS station w/26-character EAM at 1709z; 26-character EAM at 711z; 20-character EAM at 1733z, and 20-character EAM at 1743z. At completion of 1743z string, OFFUTT was up w/a "EYESTRAIN, EYESTRAIN, request you ech..."; stopped his broadcast in mid-sentence; disregarded the thing; and was immediately up w/a "EYESTAIN, EYESTRAIN, do not answer". Immediately into a trigraph/timestamp/authentication. *Very* unusual, what w/the recipient of the transmission something other than SKYKING. RAIL 28 2132 USB clg "MACDILL MAINSAIL", & then MAINSAIL. No reply to his calls. (JH) (wasn't that an old SR-71 call? -LOGS) SAM 681 2317 USB clg OFFUTT. G6S 2133 USB clg SKYKING for a radio check. ARTIFICIAL TURF (USN) 1624 USB wkg ANDREWS w/pp to PORT OPS. At 1705z, FIREBREAK wkg ? (did not catch the GHFS station) getting working freqs for NIGHTWATCH net. LASTMAN 1253 USB worked MACDILL w/pp to NIGHTWATCH 01, getting working freqs: ZULU 170/165. SPAR 67 2018 USB worked ASCENSION, and obtained ANDREWS working frequency: 295 upper (nothing heard on 11460 at that time). BRAVO SIX FOXTROT 2028 USB worked MACDILL w/pp to a DSN 573 number (KINGS BAY) id'd as COMSUBGRU 10 CWO, for an "Exercise Esteem Highly Alpha" transmission. Also coactive on the frequency at this time: UT1Y (wkg MACDILL) & OCEAN 64. Q3H 1428 USB clg ANDREWS, then "any station this net." At 1403z, BLADE 43 called by OFFUTT in an "all frequency request." At 1431z, RUCKSACK called & raised OFFUTT, asked if NIGHTWATCH 01 were back up yet (NW01 had been monitor only for over an hour). Answer: no, still down for another hour. At 1453 USB GHFS station w/attempted EAM string, with xmsn cut off w/busy signal as MCCLELLAN seized circuit for transmission of same string. During this activity, NIGHTWATCH 01

called MACDILL. At 1456z, NIGHTWATCH 01 again called, & briefly worked, MACDILL for a signal check. There are weak ALE-type bursts on freq. At 1501z, ALOMA 82 worked OFFUTT w/pp to a DSN 284 number id'd as HOWARD FLIGHT OPERATIONS. At 1504z, MACDILL worked MCCLELLAN. At 1506z (after another seized circuit cut-off), MCCLELLAN was up w/another EAM xnsn. MACDILL misheard MCCLELLAN's "MAINSAIL" call, & briefly responded to MCCLELLAN. At 1520z, NIGHTWATCH 01 worked MACDILL and put MACDILL through the 3-character challenge process. At 1523z, NIGHTWATCH 01 passed a voice EAM string to MACDILL, which MACDILL then said he would inject into AUTODIN. At 1531z, MACDILL told NIGHTWATCH 01 that the AUTODIN inject time was 1530z. The GHFS immediately lit up w/MCCLELLAN's "MAINSAIL" call, & the 26-character EAM string: 3VX77A... MACDILL then moved NIGHTWATCH 01 to 8992. Q2J 1451 USB worked OFFUTT w/pp to L6Z. (JH) AAEH: 2222 USB clg "MAINSAIL". Ascension answers and advises AAEH that he's "off frequency". (JL) FREEBIRD: 1400 USB clg CROUGHTON. REACH 8233: (Tail no 50276) 2016 USB 56 59N 31 30W Dep UUWW at 1935, C-141 Going to Ascension then ETA Shannon at 2335). (JM3) REACH Golf 3: 1354 USB clg Incirlik No answer. REACH Golf 3: 1355 USB clg Croughton, No answer. REACH Golf 3: 1356 USB clg Ascension pp to Mildenhall Metro. REACH Tango 1: 1403 USB wkg Croughton w/pp to Command post. (JS3) 6 GOLF INDIA 0230 USB clg MacDill Offutt & Ascension no joy. ??688 0056 USB wkg ?? pp HAWK 6 scheduling ops matters. CHFF 12 0229 USB wkg Ascension pp RAYMOND 06 scheduling. CUP 13 0136 USB wkg Ascension pp RAYMOND 06 scheduling. DEADBALL: 1122 USB wkg Hickam request for NIGHTWATCH current freqs --adv Primary Z165 Alternate Z170 also kept patch open until contact made. GOOSE 72 0217 USB wkg Andrews pp DSN 875-XXXX SANDCASTLE. KING 21: 1244 USB wkg MacDill pp base ops Hurricane evac to Wright Patterson AFB. MAC 066: 0133 USB clg MAINSAIL with Andrews answer radio ck loud & clear. MacDill 0119 USB USB wkg UFO 1 pp ops matters. MacDill 0122 USB EAM Sky King "IKY". Navy RG35: 0224 USB wkg Hickam advise to standby traffic in progress. Navy U841 0148 USB wkg Ascension pp MALO DSN678-XXXX arrive 0100 Brunswick NAS. POLE 487 0214 USB wkg Ascension pp Peterson Base Ops. REACH 40729: 0136 USB wkg Ascension pp "dispatch". REACH 60171: 0203 USB wkg unid station pp Hilda West C141 a/c at KPDE heading for McChord. REACH 576: 0227 USB wkg Andrews metro wx EDDK -- qsy 15016. REACH 40629: 0240 USB wkg Offutt pp McGuire CP ops matters. REACH 101: 0251 USB wkg Hickam pp. REACH 43409: 1231 USB wkg MacDill pp Dover metro wx for KCEF (Westover AFRB) qsy to 15016. REACH 0001: 1247 USB wkg Offutt pp Raymond 22 (Nellis AFB cmd post) C5 a/c tail#5001 inbound. SAFEPLAY 0246 USB wkg Hickam req for NIGHTWATCH freqs qsy 13200-- adv Primary Z175 secondary Z185. SHARK 11: 0120 USB clg Albrook no joy. SHARK 25: 1135 USB wkg MacDill pp ? -- advised will contact them again when airborne. SHARK 25: 1235 USB wkg Albrook pp Lobo. STINGRAY 41: 0230 USB wkg Hickam pp Charparel. UFO 1: 0133 USB wkg MacDill ops matters. (KW2) Sam 276 0027 USB clg Mainsail. Victor 01 wkg MacDill 2204 USB (LB2) Albrook 1830 USB w/pp for SHARK 21 to Lobo. Albrook 1947 USB w/pp for SHARK 21 to Lobo & Howard meteo. Albrook 1950 USB w/pp for SHARK 87 to Lobo. Albrook 2013 USB w/pp for REACH 171 to Furious (Howard CP) (REACH 171 is a C-5). Ascension 2030 USB w/pp for REACH 0004 to Roosevelt Roads meteo. Albrook 2101 USB w/pp for SHARK 87 to Lobo (MF2) Offutt 1744 USB clg BIRDSEYE, adv QSY 11244. BIRDSEYE 1748 USB wkg Offutt w/pp to NIGHTWATCH, who challenges BIRDSEYE (presumably to enter the net). BIRDSEYE fails the first challenge, is told to try again, does so w/two-character group to which NW op replies "there is no XX!" The third try is the charm, though, and NW op tells BIRDSEYE, "Have a safe flight." REMUS 52 1752 USB wkg Offutt w/pp to DSN 875 xxxx (SANDCASTLE OPS). DOOM 01 (USAF B-52) 1817 USB wkg unheard GHFS re AR. 01 is in contact w/tankers on HF. TUFF 15 (USAF B-52) 0240 USB wkg Hickam w/pp to Raymond 6 (MUDBUG Control) w/pp for morale call. 15 somewhere over New Mexico. Andrews 0330 USB w/125-char EAM, PDMSEO. Only long EAM heard of many transmitted this night. GOLD 61 0448 USB wkg Hickam w/pp to Langley CP. 61 tells Langley To notify AOC representative in tower that they will call Him next day from Spangdahlem to adv whether to launch the fighters. GULL 5 2003 USB wkg Albrook w/pp to unkn metro re Atlantic coast wx. (MJ) VIPER 85:

1543 USB (self id as C130) wkg Andrews w/pp to Mcguire dispatch giving arrival time and had 9 crew onboard. ADMW: 1550 USB wkg Elmendorf w/pp to RAIDER, ADMW gave location but it was to weak to understand. REACH 275: 0423 USB wkg Hickam w/pp to HILDA west, setting up new a/r time, REACH is going to a/r with AUTO 73(tanker from Hickam?) on track 903w at 0940z. HILDA stated they would notify Hickam of new CT time. KING 01: 0431 USB wkg Hickam w/pp to Portland ANG, KING was asking about JOLLY 31/32 & was checking to see what time they were going to be refueling. ROCKINROBIN: 0443 USB clg any station this net, answered by Hickam but ROCKINROBIN never heard them. Hickam 0450 USB wkg KANTOS 60 w/pp to Fugi ops, Fugi ops stated that they were in the green and there was no mach level at this time. ETA was 3hrs 10 min. (MK) AAEH: USAV Macon (LCU-2003) 0406 USB wkg Hickam GHFS w/pp AAC2, Fort Eustis, Va, passes posn/status report (32N/7637W on course210 at 9.8k. SHADO 75: HC-130N/P "Combat Shadow" 58th SOW (AETC), Kirtland AFB 0440 USB wkg Ascension GHFS w/pp Kirtland AFB "Parady Op's(?)" re status of GHOST 09 for AR. LOOK 86: 7th ACCS/55th Wing, Offutt AFB, Ne 0507 USB EC-135C LOOKing Glass a/c wkg Hickam GHFS, Hi, w/pp RAYMOND 21 (Offutt AFB) re random AR at 0615 from "the airborne". ADMW: USAV Malvern Hill 1518 USB (LCU-2025) U.S. Army Transportation Corp Runneymeade-class 1,010 DWT utility landing craft, clg "mainsail"(!), Elmendorf GHFS answers, pp RAIDER, 1097th Trans Co, Rodman Naval Station, Panama, for posn report. HOBBY 10: C-130E 403AW/815 AL, Keesler AFB Ms 1627 USB wkg Offutt w/pp to KEESLER DISPATCH to report inbound w/ETA of 60 mins, req they relay this to FOXTROT. NAVY LV719: P-3B or EP-3J of VP-66 "Liberty Bells" at NAS Willow Grove, Pa 1658 USB wkg Andrews GHFS w/pp duty office, NAS Willow Grove. PAT 900: Army "Priority Air Transport" 1659 USB C-20 wkg Andrews GHFS w/pp SAM COMMAND, est block time at Andrews is 1830z w/a DV-R3 on board, req they also adv protocol. Navy 511: VP-3A, BuNo 150511 1705 USB wkg MacDill GHFS w/pp Andrews Presidential, this a/c assigned to USMC HQ also heard as Navy 50511. HAMMER 21: B-52? 1924 USB wkg Offutt GHFS w/pp MUDBUG (8th AF Command Center, Barksdale AFB, La) re good release of 2 weapons & flares, has 2 hung weapons in forward stations 4 & 7, will declare IFE when closer to Barksdale. NAVY LA310: P-3C(?) of VP-5 "Mad Foxes" at NAS Cecil Field, Fl 2019 USB w/pp via Ascension GHFS, to unid DSN, duty office, to report ETA & adv that weapons will have to download a...'bruiser'?? Note most 3xx Navy side/nose numbers are F/A-18's. FIGHTING TIGER 746 (most likely P-3C-II.5 of VP-8 "Tigers" at NAS Brunswick) 2207 USB clg mainsail, no answer, normally calls NAS Brunswick. (RB) RAIDER 12 1431 USB wkg MacDill GHFS/clg here for radio check. SKIER 89 1432 USB wkg Andrews GHFS/pp to Holloman AFB crew billeting re left-behind personal items. RAFAIR 12L8 1516 USB wkg Elmendorf GHFS/req wx for CYQX/KCOF reading Elmendorf weakly told to QSY to 11244. DIXIE 63 1522 USB wkg MacDill GHFS/pp to Dixie Control divert to Kelly AFB to refuel. RAIL 32 1239 USB wkg Albrook GHFS/att. pp to DSN #470-4323 line busy no joy: ID on this c/s?. (TO) (use to be a SR-71 call, unk in this case -LOGS). JHAWK 76 2140 USB clg wanted pp to Czar Ops (phonetic) at DSN 743-xxxx, passed msg about completion of weapons run. TUFF 18 2148 USB clg MacDill for pp to Raymond 06.TUF-18 w/Mudbud, aborting mission run due to thunderstorms, all weapons were released. (RC1) Reach 0012 2100 USB to Moron. Mission 426,29 pax, 10000lbs hazardous, RON. Reach 9013 2105 USB to Dahran. These last two in contact w/Ascension. (JP2)

11176 ANDREWS, 1514 USB as lead GHFS station, with 26-character EAM and off frequency in one of it's sites. The site turned out to belong to OFFUTT who popped up on this freq clg some flights who were active on 11175. They appeared to correct the problem quickly. (JH) AIRMAIL: 1248 USB clg MAINSAIL no joy. (KW2)

11178 Strong ANDVT 1547 USB comms on freq, eventually followed by U.S. EE voice at 1554z saying "test 1, 2. test, 1, 2." (JH)

11181 Sam 201 2330 USB w/many signal checks w/Andrews.Then finally a pp request to Crossbow at 2335 (LB2) OVERHEAD 1845 USB looking for NIGHTWATCH (MF2)

11214 SAM 28000 1839 USB clg. Andrews....Andrews responds, but SAM doesn't hear... (GH) ANDREWS 1649 USB wkg SAM 375. Unid 1438 USB U.S. EE voices under now common data tones that are constantly on freq.

_____12 wkg _____ CONTROL ("_____" was the same for both stations). (JH) SENTRY 40 2150 USB wkg Raymond 24 (Tinker AFB, OK) re scheduling w/Alpena (MI?) tower...xmsns very weak. (MJ) AIR FORCE 1: 2045 USB wkg Andrews. (PP)

11220 SAM 201 0105 USB worked ANDREWS w/pp. (JH) SAM 201 0055 USB wkg Andrews VIP for pps to SAM COMMAND & others. (JJ)

11229 NIGHTWATCH 1955 USB w/ RAINDANCE & FORTELL (GG) NIGHTWATCH 01 2031 USB worked SKYBOUND. SKILIFT 1840 USB worked ARCTICFOX. OPENDOOR 1644 USB called NIGHTWATCH 01. "NIGHTWATCH. NIGHTWATCH. This is OPENDOOR. Do you copy. Over." Repeated a number of times and then gone. Not quite normal net calling procedure. Possibly not a regular net player. OVERWRITE & NIGHTWATCH 01 USB clg each other. NIGHTWATCH 01 1602 USB w/EAM string, followed by NIGHTWATCH 01 clg RIOTGUN & another station (female opr; could not make out id). At 1634z, SHAGLAND called NIGHTWATCH 01; same at 1643z, w/no response. At 1645z, SHAGLAND worked RIOTGUN. At 1648z, GRAYMARE worked NIGHTWATCH 01 & requested to check into the net. Moved to ZULU 170. ANKLEBONE & NIGHTWATCH 01 1439 USB tried to work each other w/no success. ABOUTSHIP 1722 USB called NIGHTWATCH 01, w/no response. BUTTERFLY 2342 USB worked NIGHTWATCH 01, confirming receipt of his traffic. (JH) SHAGLAND 1914 USB wkg FORETELL. URGENT 1918 USB wkg Nightwatch 01 checking out of net? (MJ)

11232 CENTURY 62 2144 USB w/Trenton Military. GONZO 5 1537 USB w/Trenton Military (GG) VXA: Edmonton Military, CAN 2320 USB wkg CanForce 2697 w/wx for unid loc. (RB)

11244 SHELL 25: 1725 USB wkg Croughton w/pp 330-7303 (Frankfurt AMC?) diverted to Frankfurt from Italy, supposed to go to M'hall. will be expecting a SHELL 24 also. KC135. SHELL 24: 1730 USB wkg Croughton w/pp Hilda East listened to above tfc. Croughton & Incirlik: 2211 USB w/all freq req for Reach 70045 (CH) OFFUTT 1335 USB w/20-character EAMs "FOR ABSENTLY" at 1335z & 1343z. OFFUTT, 1940 USB as lead GHFS station, w/20-character EAM "FOR TACAMO PAC SECONDARY". At 2019z, OFFUTT was back up with another EAM that he started as FOR TACAMO PAC SECONDARY but caught himself, and transmitted a "normal" string. THULE, 2245 USB weak here, w/EAM string at THULE's h+45 "repeat" EAM transmission time. Then starting at 2305z, there were EAMs at 2305z, 2311z, 2327z (possibly a 20/20/26 character EAM set),2338z, and 2344z (a slight 6-minute pattern in here.) At 0007z a very weak station was heard w/unknown string (too weak), & at 0016z, a very weak GHFS station was apparently broadcasting the 2344z EAM string (based on a few characters heard.) MAILBOX 0020 USB clg MAINSAIL, finally working THULE at 0021z, getting NIGHTWATCH 01 working freqs: Z175 and Z205. At 0045z, THULE w/h+45 "repeat" EAM. MAILBOX 2016 USB worked ALBROOK & req NIGHTWATCH net wkg freqs. MAILBOX did not respond to ALBROOKS reply, as he was already back up on 11494 wkg NIGHTWATCH 01. MESSKIT 0225 USB wkg ASCENSION for NIGHTWATCH working freqs (Z175/Z165.) OFFUTT 1340 USB w/20-character EAM "FOR TACAMO CENT SECONDARY." OFFUTT, 1603 USB as lead GHFS station, w/a (rare) 6/6 character EAM set (3VTNJP; 3V26RW) at 1603z, followed w/a 20/20 character EAM set at 1608z, followed at 1619z w/a single 20 character EAM string. OFFUTT 1319 USB, as lead GHFS station, w/128-character EAM: PCJTYT... (JH) SAM 375 2356 USB wkg Offutt, QSY 8968 for freqs. BIRDSEYE 1746 USB wkg Offutt. (MJ) RAFAIR 12L8 1518 USB wkg Elmendorf unable to read back to 11175. (TO)

11247 IFN 87 1359 USB Departed LDSP (Split) 1305 enrt Brize Norton ETA 1545 selcall LM-BK Relay C. Ascot 4393 1213 USB Wkg CFW, req Akrotiri wx. Ascot 2080 0927 USB Architect radio check. Ascot 2081 1509 USB Architect departed Akrotiri LCRO 1240/50 estimate EGVN 1750/1800 relay B selcal BL-HK. Ascot 5819 1517 USB Architect w/pp to 95236 Ext. 6337 arrive Lyneham 2230. TEST 1942 USB Cyprus Flight Watch testing w/Architect both good readable. (ANUK)

11418 RMP: RUS-NY Kaliningrad 0720 CW VVV DE RMP (ANEU)

11445 TWO JULIET 1413 USB clg ? for a radio check. On briefly & gone. (JH)

11460 IFOR 44: 1345 wkg Andrews. Freqs=primary 867 (6830kHz), secondary 295 (11460 kHz) QSYed to F867 (CH) SAM 201 1652 USB wkg Andrews. (MJ) TROUT 99: 2350 USB wkg Andrews w/incoming call from BLADE RUNNER. (RB)

11494 DEADBALL (or DEADBOLT) 1626 USB worked NIGHTWATCH 01 & to DEADBALL.)

Moved to Z225, found to be 13907.0. Freq also active w/PARKHILL-type comms. AMBITIOUS 2353 USB worked NIGHTWATCH 01, complained of too much "noise" (swbc qrm) on Z185 (9809). ABRUPTION 0002 USB worked NIGHTWATCH 01. At 0127z, ASSISTANT worked NIGHTWATCH 01 for a signal check. NIGHTWATCH 01 1716 USB worked ARCTICFOX. LIFEBUOY 1814 USB worked NIGHTWATCH 02, & into a discussion of "mode 15on LIMA FOXTROT." (low frequency.) At 1926z, LIFEBUOY worked NIGHTWATCH 02, & mentioned "negative receipt of 9 and 15 mode". More vlf/lf chatter apparently, w/maybe NIGHTWATCH 02 sending to LIFEBUOY. At 2012z, MAILBOX called NIGHTWATCH 01, with not response. MAILBOX popped up on 11244 to get a pp to NW01. NIGHTWATCH 01 2140 USB worked VAGABOND. At 2146z, NARCOTIC worked RINGBONE. At 2152z, they were into ANDVT comms. During the digital "scratch", there was a brief period (second or so) of "clear" voice: "Roger, we have good __" and into digital again. CATHEDRAL 1641 USB called NIGHTWATCH 01, w/no response. At 1753z, CATHEDRAL worked NIGHTWATCH 01, and this freq was made primary. CATHEDRAL then went into monitor-only mode for one hour. NIGHTWATCH 01 told CATHEDRAL to use "GLOBAL pp" if he could not raise NIGHTWATCH 01 when he was back up. (JH)

11605 VEX: CFB(?) Penhold, AB, CAN 0208 USB wkg unid CIX204 w/comms ck on "Ch.5", strength 2, try Ch.4 & passes freq of 10920. (RB)

12185 VEX: CFB(?) Penhold, AB, CAN 0206 USB wkg unid CIX204 w/comms ck on "Ch.6", adv still too weak, QSY Ch,5 & passes freq of 11605. (RB)

12984 4XZ: Haifa 1707 CW, IsNY MKR: DE 4XZ (JS3)

13116 RAN Nowra control 0555 USB wkg Darwin w/priority Austcost msg. (AW)

13200 Spar 65 1527 USB Croughton (VIP) terminating phone patch (BH) Croughton: 2212 USB w/all freq req for Reach 70045 (CH)

13206 AUSSIE 241 0529 USB worked AIR FORCE SYDNEY. Both at fair to good levels here. AUSSIE 241 may have been active about 30 minutes earlier on GHFS wkg ELMENDORF. (JH) PACAF 01 0540 USB wkg Air Force Sydney for runway conditions, etc. at Richmond. (JJ)

13217 SAM 27000 2151 USB enrt to the Philippines, wkg Andrews VIP for pps to the Pentagon and Hickam AFB. (JJ)

13242 OVERWRITE 1616 USB worked NIGHTWATCH 01. CATHEDRAL 1644 USB worked NIGHTWATCH 01, & enters the net. (JH) PACOM 01 1658 USB wkg Hickam Global, QSY to 9016; ETA Hickam 1935z. Then on to Andrews; ETA 0535z (JJ)

13245 SKILIFT 1841 USB wkg ARCTICFOX. (JH)

13248 SAM 201: USAF C-20B tail 86-0201 0018 USB wkg Andrews VIP w/pp Andrews meteo for wx Pax River for 0045z. (RB)

13440 SAM 682 0336 USB wkg Andrews VIP for pp. "ETA to home station 0450z." They also checked 11220 for possible secondary freq. SAM 682 0336 USB wkg Andrews VIP for pp. ETA to home station 0450. Checked 11220 for possible secondary freq. (JJ)

13907 DEADBALL 1627 USB worked NIGHTWATCH 01, w/NIGHTWATCH 01 setting freq as current primary. (JH)

13927 AFF2CP Lexington, KY USA 2218 USB Wkg B8N (Unid.) (IB)

14355 Unid 1210 USB Either CAN or USA mil. 2 OM/EE. Considerable fading out. Occasionally covered by fading in of Bracknell Meteo RTTY xmsn. (RM)

14441.5 NNNOCUB: USS Arthur W. Radford (DD-968) 0018 USB w/NNNOUTO (Sean Malone-MARS shore station in Republic WA) switching to 14467 w/pp. NNNOCYL: USS Kidd (DDG-993) 2128 USB w/NNNONUW (MARS Shore Station Whidbey Island, WA) w/ pp traffic on 14467. NNNOCMI: USS Robert G. Bradley 2231 USB cln any shore station for pp traffic-no joy. NNNOCZI: USS Merrimack 2135 USB w/NNNOKRO (Shore base Cincinatti OH pp traffic. NNNOMCL: Camp Leguene NC 2013 USB w/NNNOPRQ (Shore base Caneyville KY) re Afloat Net procedures. NNNOCZR: USNS Powhatan 2102 UTC USB w/NNNOSNW (Shore base Inverness, FL re pp, switch tp 14467 but too much "inteference from teletype". NNNOCOL: Unid ship 2105 USB w/NNNOHLQ. NNNOCAA: Unid ship 2126 USB w/NNNOUTO tx to 14467 for pp traffic. NNNONWV: Unid 2135 USB seeking shore stations. NNNOCYL: USS KIDD 2156 USB w/NNNOUTO tx to 14477 for pp traffic. NNNOCBE: USS Leyte Gulf 0211 USB clg for pp, later working NNNOCCL (Unid). NNNOCRU: USS Essex 2015 USB wkg NNNONUW (NAS Whidbey Isl WA) re radio problems. NNNORRC: Unid shore station 0105 USB offering pp services no joy. (MR2) NNNOCUB: USS Arthur W. Radford 2239 USB (DD-968) clg ASSMS w/beam heading of NE for routine pp traffic. (RB)

14467 NNNOCOW: USS Trenton (LPD-14) 2340 USB w/NNNOUTO (Sean Malone-MARS shore station in Republic WA) with pp (MR2)

14470 NNNOCRK: USS Ponce (LPD-15) 2214 USB w/NNNOHLQ (MARS Shore Station Wimberly TX) w/pp traffic. NNNOCOL: 2223 USB (Unid ship) w/NNNOHLQ (MARS Shore Station-Wimberly TX) w/ pp traffic. (MR2) NNNOCZR: USNS Powhatan 2042 USB (T-ATF-166) concluding pp tfc w/NNNONWV, NAVSECGRPACT, Sugar Grove, WV. (RB)

14780 VEX: CFB(?) Penhold, AB, CAN 0205 USB wkg unid CIX204 w/comms ck, req he try Ch.6 & passes freq of 12185. (RB)

15015 KING 74: 1345 USB wkg MacDill pp Minuteman - ops info a/c tail #50917. (KW2)

15016 REACH 0158: 1754 USB wkg? bad sig but were a C141 @65.39 W. SPAR 84: 0100 USB wkg Albrook told them to try 9016 then 11175. SNICK 67: 1310 USB wkg Ascension w/pp DSN 622. AIREVAC 10T6: 1320 USB wkg Ascension w/pp Ramstein metro. posn N4046, E1730 - C9 a/c. Andrews & Lajes: 2211 USB w/ all freq req for Reach 70045 (CH) NIGHTWATCH 01 1414 USB worked MACDILL w/pp to a common DSN 939 number. (JH) REACH 43409: 1236USB wkg MacDill pp Dover metro re-initiated however lost contact again. (KW2) Lima Lima 31 2341 USB w/pp through MacDill. (LB2) (P-3C or UP/TP-3A of VP-30 "The Pro's Nest", NAS Jacksonville, Fl -LOGS) Albrook 2034 USB w/pp for ADMW to RAIDER. ASCOT 5851 2043 USB clg Lajes & Rogers(?) radio, nothing heard. Albrook 2047 USB w/pp for CAJUN I2 to DSN#791-6150/791-4227/791-3592-Army Ops. Ascension 2141 USB w/pp for ADMW to RAIDER (MF2) KING 22 1619 USB wkg MacDill w/pp for wx at Bermuda. (MJ)

15046 NIGHTWATCH 01: 2205 USB wkg REITERATE w/rdo cks "on Z230". (RB)

17108 EBA: SN MADRID 1610 CW Marker, at 1620 navigation wngs at 17wpm for NAVAREA III. In EE repeated in SS. (DW)

17973 Hickam 0241 USB Global signal checks with PACAF 01 for new primary frequency. Moved from 15043 & prior to that move 13242. (JJ)

17976 JAPAN NAVY 5030 2149 USB "MAINSAIL,MAINSAIL this is JAPAN NAVY 5030, how copy ?" (GG)

18018 Ascot 5424 1050 USB Wkg. CFW w/pp to Ext. 6558 Lyneham, enrt Harare req High Commission rep. meet aircraft w/10,000USD for fuel, airport taxes & accom. Ascot 4802 1118 USB Departed Lyneham 0745 15E at 1115 est Akrotiri (Cyprus) 1410 selcal AK-CM. Ascot 3740 0924 USB Wkg CFW, posn 15E 0825 destination LCRA ETA 1025 relay D selcal DH-KM. Ascot 3741 1337 USB Wkg CFW, departed Akrotiri 1245/55 est 15E 1500, ETA EGVN 1740/50 relay D selcal DH-KM. Ascot 9201 1504 USB Architect w/wx for ETUR selcal CF-DM. Ascot 2081 1341 USB Clg CFW no reply. (ANUK) RAN Akrotiri CYP 0615 USB Wx report to the area. (AW)

18801 SAM 201 1647 USB wkg Ascension, QSY 15016 to get frequencies...295 pri, 291 sec. (MJ)

=MISC=

3089 SYN2: 2149 repeating SYN2 SYN2 etc (JM3) (Mossad but should be only one ID -LOGS)

3314 HEP3: Swiss Police, Zurich 2207 CW, "vvv vvv vvv de hep3 hep3 hep3 ar" (MC)

4020 Unid: 2333 LSB w/broadcast of 'Cleveland Indians' (OH) baseball game, live, poss MARS related?. (RB)

4463 Unid 1905 USB-Number station- EE-fem voice op 5 letters gp (MS4)

4560 Unid 1945 USB-Number station- EE-fem voice op 5 letters gp (MS4)

4930 Unid: 0855 LSB Russian number stn.First the word Friday in RR then 21654 repeated twice,followed by Thursday in RR and 5FG's in RR.Unusual,first time heard. (AW)

5153 Numbers Statio: n (CIA Counting?) 0244 USB YL/EE w/msg for "759", off w/"end". (RB)

5170 Numbers sta 0150 USB Female phonetic numbers (letters) stn, ended broadcast just as I tuned in, I didn't have a pencil, but recall thinking I heard Kilo, Xray, plus two other characters/phonetics. (MS2) (Mossad, was last known using MIW2 -LOGS)

5211 KPS396: ? Orlando FL 2222 USB wkg a weak MARS station (JM)

5256.5 Unid (illegal?) 0140 USB EE language net sounds a lot like a bunch of truckers w/CBs, with that 10-4 good buddy drawl. Any ideas? (MS2) (more than likely towboats or tugs then -LOGS)

5278 ZLCL5: 0945 USB Red Cross Disaster Relief mobile unit working ZLCL Red Cross Auckland. ZLCL5 providing first aid support for Rally of

NZ. (AB3)
5390 Radio Alma in USB w/phone links between hunting & fishing camp from northern Quebec. Very active between April 1 & October 30, mostly in FF, but some EE, also serve as forest fire situation, emergency for medical assistance, & evacuation warning (fire). (AP) Alma Radio, Montreal 0155 USB w/FF language pp's to north country. (MS2) CGD206: Alma Radio, Quebec, CA 0122 USB w/R/T calls to bush phones in FF. (RB)
5422 Unid 1920 USB -Number station-EE-fem voice op-5 fig (MS4)
5430 Radio Alma in USB w/phone links between hunting & fishing camp from northern Quebec. Very active between April 1 & October 30, mostly in FF, but some EE, usually some american tourist w/relative to tell about their great catch :-) (AP) CGD206: Alma Radio, Quebec, CA 2348 USB w/R/T calls to bush phones in FF. (RB)
5437 Numbers Sta: Unid 0130 USB YL w/ British accent w/5LG's. (RB)
5700 Unid: 0805 USB Chinese phone net, pp right on military freq (AW)
5757 Unid: 1050 USB Pacific Island phone net. (AW)
6786 Numbers sta 0620 USB Female SS 5 digit numbers transmission. *Very* powerful signal -meter pinning, and still detectable w/the antenna disconnected from the receiver. (JH)
6809 WGY901: FEMA Region 1, Maynard 0133 USB Ma, wkg WGY952, believed to be FEMA San Juan, PR on F21 re Hurricane Bertha; at 0136 clg WGY932 FEMA St Thomas, U.S. Virgin Islands, no joy. (RB)
6849 New Tribes Mission PNG 0855 USB Outpost Danny clg Halfway (AW)
6940 Unid: 0902 USB Filipino phone net (AW)
7706 Unid: 0955 USB Filipino phone net (AW)
7789 Unid: 0720 USB Pacific Island phone net (AW)
7871.6 LN2A: SVEIO BEACON 2133 CW Beacon with cw ID LN2A and other short bursts of regular data. Then off air 2135. (DW)
8000 JJY: Sanwa, Japan 0915 CW Time pips. (AW)
8000 Unid: 2333 USB 2 OM/SS (RM)
8002.5 Unid: 0906 USB Filipino phone net,Mentioned American Radio (AW)
8008 Unid 2334 USB OM/SS comms w/YL (RM)
8066 Unid 1121 CW 5LG using ANDUWRIGMT for cut nmbrs 1-0. Ends 1124 w "ar ar ar as as as." (RM)
8205 Unid 0128 USB Net/SS. Maracaibo frequently mentd. (RM)
9977 Unid 2345 USB net/SS (RM)
9987 Unid 2346 USB 2 OM/SS (RM)
10070 Unid: 0735 USB Pacific island phone net.In Aero band. (AW)
10155 Unid 2348 USB net/SS (RM)
10262 Unid: 1115 USB EE number stn.YL giving 3-2 numbers (AW)
10377 Unid 0003 USB OM/SS comms w/YL (RM)
10493 KCI615: ARC Falls Church VA 2103 USB wkg a FEMA station (JM) KEM80: 1222 USB wkg WGY 912 radio ck -- 80 id agency as FAA Emergency Ops Center Washington D.C. (KW2) WUG (US Army Corps of Engineers, unkn loc) 1825 USB wkg WGY 912 (FEMA Mt Weather EAC) w/commo check. WUG indicated that he would check with his stations in Wilmington (NC) & Savannah (GA). WUG also told 912 that his station in Norfolk, VA, WUB5 would be manned and ready for the arrival of Hurricane Bertha. KGD34 (National Coordination Center of the National Communications System, Arlington, VA) 1826 USB wkg WUG w/commo check. AFA1PZ 1842 USB clg WGY 912, with no joy. (MJ)
10597 Unid: 1141 USB lady reading 3/2 letter grps (EW)
10866 Unid 0033 USB 2 OM/SS (RM)
11031.7 Unid: 0740 USB pacific Island phone net. (AW)
12314 BND number station 0900 USB tfc. to 'Mike Delta' (ANEU)
13507 Unid. 1632 USB w/rolling code speech inversion(RM)
13545.2 PCW1: Dutch MFA, DenHaag 1809 CW, "pcw1" marker plus SITOR phasing bursts (MC)
13876 RGT77: unid 0855 CW or someone clg RGT77, sent: XXX RGT77 09046 BOROWNIK 0921. (JD2) (RGT77 was also an unid CW on 7774, borownik transliterated is borovnik -LOGS)
14268 K1WW: NCS, Radio Readiness Group 1700 USB wkg stations in San Juan, Bahamas & Caribbean w/info re Hurricane Bertha. (RB)
14268 4U1: UN Disaster Net 1845 USB wkg Ham stations from Barrier Islands, Burford SC & Bahamas w/info re Hurricane Bertha. (RB)
14282 Caribbean Health & Welfare Net 2226 USB wkg ham in Bahamas reporting damage from hurricane Bertha; reports damage to east side of island

& he is on a generator. (RB)
14370.4 Unid 1215 USB OM & YL in Italian(RM)
14375 Unid 1217 USB OM/SS in dpx xmsn w YL on 14390. Strong sig on both ends(RM)
14418.3 Unid 1226 USB 2 YL/SS comms(RM)
14425 Unid OM/YL: 2304 USB w/chat, at first thought it was a MARS pp, but at conclusion they signed off w/goodbyes, no ID, & no conclusion of pp, reference made to Fort Bragg. (RB)
14450 Unid 1445 LSB 2 OM/SS after RTTY xmsn on 14449.2 (RM)
14531.2 Unid 1230 USB 2 OM in unid. lang. (RM)
15862 Unid 1105 USB -Heavily jammed Number station -EE-fem voice 5FG.(MS4)
20947 8BY 0959 CW VVV VVV VVV DE 8BY (JS3) (French Intelligence Svc -LOGS)

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Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS Club ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ WUNNEWS Vol. 2, No.09 September 1996 ////
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Publishing, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

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* We are looking for a new editor for the Ask WUN column. If anyone is interested, drop me a line (utelistener@msn.com).

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o Surfing the Longwaves by George Karayannopoulos
o Utility Round-up by Ary Boender
o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson3@bright.net

Welcome to the WUN Membership News for September. The number of members we have subscribing this month has gone up. Membership to the WUN and to the WUN-DIGEST list has climbed since August. Below is a detailed membership breakdown for last month, this month and one year ago.

	8/96	9/96	9/95
WUN	631	661	456
WUNNEWS	186	186	156
WUN-DIGEST	71	79	---
MAIL EDITION	43	43	18
BBS	145	152	---
	1076	1121	630

As promised, I have conducted a survey of the decoding gear that contributors to the WUN database are using. The largest number of responses, 56, came from members who do not have any decoding capability. On the other hand, the most popular decoding setup was some variation of the JVFAX software/interface combination. This alternative was being used by 44 members.

The next most popular decoding alternative was the HOKA Code 3 with 31 people using that hardware/software combination. HAMCOMM came in third with 32 people using it. The PK-232 was the next popular decoding solution being used by 18 members and 12 were using the Universal M-7000. At this point, the number of users of a specific decoding package dropped off rapidly. The Universal M-1200 and the HOKA Code 30 were tied with 6 users. After that all of the other solutions were used by less than a handful of users. In all, members listed a total of 51 different types of equipment or software.

I'd like to thank everyone who has taken the time to send me information for the database. Next month I'm going to repeat a survey I did several months ago and prepare a list of how many members we have from each country. This survey will be for the entire membership and will include the WUN-DIGEST and WUNNEWS lists. If you would like to be included in future member surveys, you need to supply me with information for the member's database. If you want to become part of these surveys, please answer the questions

asked in the member's survey. Here is the survey:

E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested. If you're sending me a revision please indicate that in your e-mail.

That does it for September. Have a good month and I hope your monitoring is successful. Mike

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INTERNATIONAL CIVIL AERO

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Here we are again with yet another edition of International Civil Aero. We'll be your hosts for another small turnout this month: 0. We'll be hoping to receive a few more contributions next month as the DX season gets underway and many airlines change flight schedules. We have no column yet again from Vic Gubbins and I have been unable to contact him. If anyone has heard from him lately, please drop one of us a line at the above address. Thanks to those WUNners who have contacted me via post, your logs will be forwarded to the appropriate editors! Now on to the info...

MORE LDOC FREQUENCIES
==========

Some more interesting LDOC frequencies would seem to be in order this month, as interest in these stations is always growing: one frequency to watch, especially on weekends is 8900 and is used by Canada 3000 c/s Elite. One can hear most anything here, from routine ETA reports and weather requests to reports of unruly pax and crew scheduling...Springbok Radio Johannesburg, widely heard on both 5532 and 8933 among other frequencies not only serves the South African Airways fleet, but also serves the likes of Air Namibia, Alliance, the occasional VARIG flight, Air Mauritius, and South African and Namibian bizjets. The Springbok fleet to and from Europe and North America checks in every hour on the top of the hour en route, while flights to and from Asia and Australia usually check in at half past the hour, and South American flights will call at approximately 45 minutes past. Speedbird Radio London (5535/8921/10072/13333 are among some of the more active freqs) is of course British Airways' LDOC station. But did you know that a host of other airlines, including but not limited to Emirates, Saudia, USAir, and Air-India also use the services of Speedbird? Stockholm Radio LDOC (5541/8930/11345) serves a wide variety of airlines around the world, and it is possible to hear flights ranging from Asia to North America using these frequencies. In one recent DX session, I heard Air Europa, Air France, World, Tower, Delta, EVA Air flights working Stockholm. Unfortunately, according to a report from the excellent aviation bulletin Scramble in the Netherlands, KLM has abandoned all it's LDOC operations out of Amsterdam in favor of VHF and ACARS transmissions. Last but not least is Flight Support Lima, American Airlines' LDOC on 5535 and 11306, which also serves as home to Tower Air and some other smaller airlines. When conditions to Central and South America are favorable, it is possible to log almost every AA flight heading South. Communications consist of an initial contact with selcal check and position reports at usually four points along the way.

AIRLINE NEWS
==========

In the news this month, KLM has decided to eliminate service to Calgary eff. October 26th. 3 weekly MD11 flights will continue to ply this route until suspension. Listen up for KL683 AMS-YYC and KL682 YYC-AMS. The flight skeds and numbers are finally in for the new VIRGIN ATLANTIC service to Johannesburg. VS601 LHR-JNB departs 2145 and arrives 1000+1 on Mondays/ Wednesdays/Fridays and the return VS602 dep JNB 2015 and arr LHR 0635+1 on Tuesdays/Thursdays/Saturdays, with the departure time changing to 215 effective October 26th. A newly-acquired Airbus A340 will be used on the route. DELTA has quite an extensive schedule across the Atlantic, and we've decided to feature a handy list of flight numbers, routes, and equipment in two parts, part one to be presented below:

DL10	ATL-LGW	MD11
DL11	LGW-ATL	MD11
DL12	ATL-LGW	MD11
DL14	ATL-FRA	L15
DL15	FRA-ATL	L15
DL19	LGW-ATL	MD11
DL20	ATL-FRA	MD11
DL21	ORY-ATL	L15
DL22	ATL-ORY	L15
DL27	FRA-ATL	L15
DL30	JFK-SVO	763
DL31	SVO-JFK	763
DL32	ATL-MUC	763
DL33	MUC-ATL	763
DL36	CVG-LGW	MD11
DL37	LGW-CVG	MD11
DL38	ATL-AMS	L15
DL39	AMS-ATL	L15
DL40	MCO-FRA	L15
DL41	FRA-MCO	L15
DL43	ORY-CVG	L15
DL44	CVG-ORY	L15
DL48	CVG-FRA	MD11
DL49	FRA-CVG	MD11
DL57	FRA-LAX	MD11
DL58	LAX-FRA	MD11
DL60	IAD-FRA	L15
DL61	FRA-IAD	L15

And with that we'll end this edition of ICA. As always we appreciate your comments, criticism, and of course your contributions to this column. Here's hoping that Autumn brings better DX to your door!!! 73!
==========

ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE
Colin Goodall, editor

Colin has had some major e-mail malfunctions and has since indicated he will be unable to maintain the column. So we are looking for a new editor here. For now, I'm catching up with some folks who never saw their questions here (probably because of Colin's e-mail problem).

Remember if it's related to anything having to do with the radio hobby, you need to ASK WUN. If it doesn't fit anywhere else...it fit's here.
Rick Baker (utelistener@msn.com)

The first question for the assembled masses comes from Bob Langley, and he lives in an Atlanta suburb called Lawrenceville, GA, here in the USA. Bob had some great scanner tails from the recent Olympic's held in Atlanta, but his questions are pertaining to VHF/UHF military monitoring. Bob Ask's WUN:

"First, I was WUNdering if you knew of any VHF/UHF military distribution lists like WUN that I could join? Second, I would like to listen to UHF

SATCOM. What antenna should I use? A discone with amp, or what? I will be using a Pro-2006, and an AOR AR-2002. I used to hear them clear as a bell in my old apartment closer to Atlanta, on 248.925, and 249.325 (Norad). But, since I moved, I can't seem to find them. I'm sure it has something to do with the fact that I am surrounded by trees. I would like to know recommended antennas, and azimuth and inclination parameters so that I know if something is blocking my line-of-sight reception. I am very interested in listening to the anti-narcotics and special ops people from Hurlburt Field, in Florida. They both utilize SATCOM extensively. Any help will be much appreciated. Thank you." Bob Langley, bob@benserv.com Lawrenceville, GA

Bob, I've just become aware of a VHF/UHF scanner list that may be what you seek. It's called SCAN-L. The subscribe procedure is to send e-mail SCAN-L@UAFSYSB.UARK.EDU and in the body of the message type: subscribe scan-l (your real name), your real name is really your own personal name without the quotes. As for your UHF SatCom questions, we will see what the members say. Next Alex Wellner down in "Oz" is seeking help in this manner:

HELP WANTED. Wanted an ITU publication called "List of fixed stations operating international circuits" It used to be number II on the ITU lists. My copy is dated 1977 and I would like a later copy. Must have the frequencies listed. If anyone can help me,I will pay a fair price plus postage. ALEX WELLNER alexw@zeta.org.au or c/o Alex Wellner, 1 Bonus st Bondi 2026, NSW Australia.

Ok, there you go....next we move on to Mike Fink down in southern Florida who seeks this info:

"I've been hearing the callsigns "Bear & Coil" on UHF lately, any idea who they belong too? Does anyone know who uses the callsign "Shark" out of Homestead. And yes, I know Shark is used by transports out of Howard but the Homestead user is a fighter, maybe an F16 ADF version. I do know that MAKO is used for there AFRES F16'S,and I think some F15's have been based at Homestead lately. Whoever uses the SHARK callsign flies in pairs and flights and regularly hooks up with tankers to aerial refuel." Mike Fink, 16591 Royal Poinciana Ct, Ft.Lauderdale Fl 33326, USA or mikef@shadow.net

Bound to be somewun (hi!) down in that area who has a clue who can help Mike. Next Matt Hassock Ask's WUN:

"I'd like to know about the listening strategies of experienced ute listeners. For instance how much do they rely on known frequencies and how much time is spent searching for new ones. When searching for new frequencies how slowly do they change frequency and over what range? How many receivers are needed to be really effective. etc. For the record, my current strategy because I don't get much shack time is to find an interesting frequency - usually from WUN posting's and record 12 or 24 hours onto hard disk using the Syntrillium Cooledit95 program then check for activity in hourly chunks using the spectral analysis mode, zoom in, filter the noise if necessary and log it. The link to this site for this is now on the WUN Web page (I think) otherwise try a search for the syntrillium homepage on altavista. Its a truly great piece of shareware, amplitude and spectral analysis, filtering and dynamic noise reduction and a maximum file size of 1 GB."

Personally, I've found that using a computer control program really increased my 'snags'. I have files pre-made for day and night general listening, digital search's, Share's exercises, USCG activity, USAF Mystic Star, etc. I've settled on file sizes of 150 frequencies or so if I can. I have one file which contains 1,019 frequencies, but the time needed to get through it is quite a bit! I now go 85% with computer control and spend maybe 15% of the time just 'looking around'. I like to start high a work low several Mhz at a time to see where the band is. Before I had the computer control, adding my 101 channel Icom R-72 really helped me too. I had only 32 memories in the R-71. The program Matt describes sounds pretty interesting and I'm going to look into it. How about other ute station sleuth advice? Let's hear what your method is. Kees Miedema seeks enlightenment on the woe's

of QRM:

"As I still have a lot of troubles between my PC and my Receiver, a Lowe HF-150, i am searching for tips to reduce the interference between them. The interference is very high, on certain freq's, i can hear it on the receiver when i move my mouse!! The setup over here:
PC is a TRUST 486DX2/66, monitor a Highscreen MS 1457 LE-II (MPR2) Operating System OS/2 Warp...Receiver is a Lowe HF150, about 3 Meters from the PC antenna is a Grahn GS2 Active Magnetic Loop, about 5 Meters from the PC...It won't help if i turn off the monitor, or disconnect the mouse, I tried and changed all boards in the PC except the mainboard. It stops when the PC is off, then all is clear as it should be. Even other antenna's do not make things better. As I use my computer with HOKA Code3 you can imagine what I am going through -HI. Before on another location I used the same setup, and never had any problems so I can't think of a reason. I did try advice listed in an earlier Ask WUN column where the system switched to Windows NT and the resolution was at 640 x 480, still tons of hash, but when changed to 800x600, it was better, and then to 1024x768 it was almost gone for that fellow. I also tried this one and it seams to work a little, only tried in on MW for now, gonna find out more about it later on. Tried also a dipole, but that was even worse, bought the magnetic-loop because this would be great, but can't agree with that idea." Thanks for any ideas, Kees Miedema, Deventer The Netherlands.

Ideas anywun? Eddy Waters, also down in "Oz" is after a solution to this problem:

"Anybody out there who can lend assistance for a hardware problem I am having. I have connected my WJ-1000 to a computer control program. I have connected everything correctly but I can't get the radio to respond. I have set the dip switches on the radio as per the manual but he only response i get when i try to run the program is error 62 beyond string and error 12 var t1 not found. It is a problem only with this radio, i connected everything up to my r7100 and it works fine. The program is from Switzerland and is called Shoc Software.
Eddy Waters elwaters@academy.net.au

Whoa....tough one! Not a ton of WJ-1000 users out there in WUN land. But maybe someone can help....

(ed note just before press time, Eddy wrote that he had found his problem, here is what he found): "The problem was the nine pin cable from my ps/1 connecting to the WJ had the transmit and receive data on the wrong connections. The Transmit pin MUST be 2 the RECEIVE must be pin 3 and the ground pin 7. The standard nine pin cable here is Receive on 3 transmit on 2 so of course the radio wasn't talking to the computer. I still am disappointed that neither the software manufacturer or the radio manufacturer didn't email me to say they were trying to find out what the problem was."

Ok, that's it for this time. If you reply by e-mail for any of the questions, remember to cc a copy to me at utelistener@msn.com so we can share the reply with all via this column. If your a paper version WUN subscriber and want to offer information, drop me a note at my address listed on the Logs Column and I'll pass it along.

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DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Howdy y'all, I will keep it short because I have a load of work to do and my vacation is coming up (already over when you read this). A *B I G* THANK YOU! goes to the contributors of this months' column: Day Watson, Costas Krallis, Michael Marten, Markus Buttinger, Robert Hall, Ralf Rademacher, Jim Conrad, Bob Puharic, Les Crossan and Fabrizio Magrone.

VFT revisited

After Day Watson's item about the UK DCN-VFT system in the May newsletter, lots of questions were asked. That's why Day posted an explanation recently: 10890 kHz is the suppressed carrier (F0) of the USB supporting an 8 channel VFT. ALL channels are 340hz NOT 170hz. And each adjacent pair of channels are interleaved ie 1 and 2, 3 and 4, 5 and 6, 7 and 8. Each channel has a MARK and SPACE tone within the USB located positive with respect to the F0. The following table shows the tone for the mark and space of a given channel and the mid position (Ch/centre) for that channel.

Ch	Mark	Ch/Centre	Space
1	425	595	765
2	595	765	935
3	1105	1275	1445
4	1275	1445	1615
5	1785	1955	2125
6	1955	2125	2295
7	2465	2635	2805
8	2635	2805	2975

From this you will see that the Mark tone of the upper channel of the pair locates centrally between the tones of the lower channel of the pair and that the space tone of the lower channel of the pair locates centrally between the tones of the upper channel of the pair.

Channel 1 of these systems is the order or engineering channel. 50bd RTTY normal. Idles with the mark tone active. Patience will bring the occasional engineering exchanges. The RF channel centre for say channel 2 is F0 + 765 or in this case 10890 + 0.765 = 10890.765 khz.

With simpler equipment tune to this with a narrow filter (340-500 hz) to isolate the channel's mark and space tones. This will pass three tones - remember the one between this mark and space from the adjacent channel. Carefully attenuate with your notch filter. Some of these VFTs are full of QBF/RYI markers - assumed standby links in case the big bird's lead-acid accumulators fail. The one's on the London/Gibraltar links carry channels with an variety of modes of which two may be found in the clear.
Which ones? - now that would spoil your fun.

African report

Robert Hall from Capetown, RSA, recently joined WUN and has some news from several African countries. This is what he sez:

==> Bad times in Bangui by Robert Hall
The recent fighting in Bangui in the Central African Republic caused a big increase in traffic between the French Forces Libreville and Paris. The French had some 1500 soldiers in and around Bangui who became involved in peacekeeping operations in that violent area. The following is an example of signals logged within just 30 minutes in May 1996, all on 16262 kHz using ARQ E3 at 192/390. French Forces in Bangui normally transmit on 15860 kHz in ARQ E at 72/388 but, strangely, nothing was heard on this frequency during the troubles.

```
  13.05 UTC  RFTJD  FF Libreville w 5Lgps to RFFUAJ Villacoublay (Paris)
  13.09 UTC  RFTJD  FF Libreville w 186 5Lgps to RFFUAJ, RFFXI (FF Bangui),
                    RFFXIA (Bangui), RFGW (MOD Paris), RFTPA
  13.23 UTC  Paris  w  A1945 Paris w "CdeV" on HAI circuit
  13.25 UTC  RFTJD  FF Libreville w "FM GROUPTAM Libreville" to RFFAB/Guerre
                    CENTOPS Paris" - 5Lgps
  13.35 UTC  RFTJD  FF Libreville w  5Lgps for RFFUAJ Villacoublay (Paris)
```

==> Troubles in Bahrain by Robert Hall
There I was, just twiddling the dials on the old R71E and worrying about black algae in the swimming pool when up came the familiar high speed buzz

on a French Forces station on 16280.3 khz. Cut in with the Universal M7000 and soon we had all the lights flashing on ARQ M2 at 200/380. Three ID's came in rapid succession: RFFLC (FN Toulon) calling RFQPJVN (Froghsip Jules Verne) via Jibouti on the RQF circuit, the RFFTB (MOD Paris) with pages of 5Lgps for umpteen addressees with callsigns beginning with the letters "RU" and finally, up came RUMGSGG (MOD Paris for NATO?) with yet more pages of 5LGPS mixed up with some FF for yet more "RU" callsigns !

<RU indicators belong most probably to US forces, Robert. US Naval ships regularly visit that area and I have often seen that messages were passed to them via the French circuits -Ary->

Traffic marked URGENT and PRIORITE and mostly encrypted to well over 60 different ship callsigns continued for over an hour ! Many naval ship's names were enclair and some were troopships. The fleet included French, British and US warships. Dramatic stuff indeed !! Forget the pool algae; obviously a big panic and were we back to Desert Storm 2 ?? Reach for the printer which didn't work for the first time ever! The only clues came with the names BAHRAIN and MASIRAH cropping up among all the crypto.

A day or so later we heard that there were internal troubles within Bahrain but from all those signals from Paris it seemed that another Middle East war was looming. One knows that the Gulf is a sensitive area but it is interesting to ponder on the size of the US/GB/FF fleet and that HF communications were used, presumably to supplement SATCOMMS. Also one wonders whether US and British ships are equipped to read ARQ M2/200; I don't recall ever having logged the mode being used by other than French stations ?

<They don't have to... often those messages are sent from the US via Paris or Libreville to the nearest station in the specific area (Djibouti) who relays the message to the vessel via another comm-system. -Ary->

==> Reunion Island Communications Centre by Robert Hall
Also from Robert Hall is the following item about the French Forces' Comms Centre in Reunion.

Geographically the small island of Reunion lies in the Indian Ocean some way off the east coast of Africa. But politically and economically Reunion is actually part of France with the same high standards of living and no crazy ideas about "freedom" and "liberation". As such it is probably the most stable piece of land within a radius of several hundreds of miles and thus provides a most excellent base for French military and naval forces and for their communication systems. These often make use of HF radio signals using RTTY, ARQ E3, ARQ E and ARQ M2 modes.

Most FF stations within France have callsigns beginning with RFF while overseas stations begin with just RF. The basic callsign for Reunion is RFVI but there are several combinations of additional letters as shown in the following recent signal which I picked up on 14731.7 khz using ARQ-E at 96/428:

```
RR RFVITT                    (to FN Reunion)
DE RFFLVM                    (from FN Toulon)
ZNR UUUUU
FM UGECOMAMEC TOULON
TO RFVITT/LA BOUDEUSE        (Reunion naval base)
INFO RFFIA/MARINE TRANSIT LE BOURGET  (Paris)
     RFFINDI/ALINDIEN        (FN Paris HQ Indian Ocean)
     RFVIC/MARINE LA REUNION
     RFVITZ/COMSUP ST DENIS REUNION
     RFQPMJVN/JULES VERNE    (warship JULES VERNE based Jibouti)
     RFVICPL/CHAMPLAIN       (warship CHAMPLAIN based Reunion)
     RFVIALB/ALBATROS        (warship  ALBATROS based Reunion)
Then messages in 5Lgps and FF text en clair
NNNN
```

There are about a dozen different frequencies for Reunion traffic and many more callsigns beginning RFVI++++. Reunion comms cover not only the Indian Ocean but also handle relays for the Far East and for the four French Ant-

arctic bases - (Amsterdam I., Crozet I., Kerguelen I. and Adelie I. [Dumont D'Urville]). Thus along with FF Jibouti, which covers the Middle East and is not part of France, Reunion must be among the most important active HF military communications centers in the world today !

FSK-Transmissions from Germany

The following comes from Michael Marten from Marburg, Germany. He shares some info about ROHDE & SCHWARZ, the electronics giant, who obtained a license for FSK-test transmissions on HF. Keep an eye an ear open for ALIS, RS-ARQ and burst-signals in FSK-mode on the following frequencies: 3288, 4031, 4457.7, 4993.5, 5786.5, 6770, 7512 & 8165 kHz

Deutsche Wetterdienst sked

Mode: baudot 50bd

Freq.	c/s	Tx-time
147,3 kHz	DDH 47	06.00 - 21.00 UTC
4583,0 kHz	DDK 2	24h
7646,0 kHz	DDH 7	24h
11039,0 kHz	DDH 9	06.00 - 21.00 UTC
11638,0 kHz	DDK 8	24h
14467,3 kHz	DDH 8	06.00 - 21.00 UTC

Xinhua Press leaves HF by 1-1-97

Fabrizio Magrone forwarded a message sent by IK6TJG on the amateur packet radio network. This was copied on 7 September, 15.07 UTC. Catch them while you can!

RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRY
QRA QRA QRA DE BZP51/BZR62 BZP51/BZR62 XINHUA BEIJING
RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRY
THIS IS THE BROADCAST OF XINHUA NEWS AGENCY BEIJING

ZCZC L02250
QU BJZAE BJZUP
EMAA VTA004
TO XINHUA SUBSCRIBERS:

XINHUA HAS RELEASED ENGLISH STORIES THROUGH RADIO SHORTWAVE TRANSMISSION FOR A LONG PERIOD OF TIME. WITH THE DEVELOPMENT OF MODERN TELECOMMUNICATION TECHNOLOGY, XINHUA HAS ADOPTED SATELITE TRANSMISSION TO RELEASE ENGLISH STORIES AND THIS SHOWED AN IMPROVEMENT IN QUALITY AND SPEED OF TRANSMISSION.

NOWE WE DECIDED TO STOP THE RADIO SHORTWAVE TRANSMISSION FROM JANUARY 1, 1997 AND THE SUBSCRIBERS WHO RECEIVE XINHUA ENGLISH STORIES BY RADIO SHORTWAVE TRANSMISSION MAY CONTACT THE TELECOMMUNICATION AND TECHNOLOGY DEPARTMENT OF XINHUA NEWS AGENCY IN BEIJING OR THE LOCAL XINHUA OFFICES AS SOON AS POSSIBLE, SO THAT WE CAN DISCUSS WITH YOU AND ARRANGE TIME FOR YOUR RECEIVING OF STORIES THROUGH THE SATELITE TRANSMISSION.

FOLLOWING ARE THE ADDRESS:
ADDRESS: TU XUANWUMEN XIDAJIE, BEIJING, CHINA
POST CODE: 100803
CONTACT: TELECOMMUNICATION AND TECHNOLOGY DEPARTMENT
XINHUA NEWS AGENCY
FAX: 86-10-63074789

XINHUA NEWS AGENCY
SEPTEMBER 1, 1996

07/09/96 1431GMT
NNNN

Diplo corner: Slovakia

Notes on operation:
o On 1 Jan 1993 Czechoslovakia split into two nations -

- Czech Republic, capital Prague
- Slovakia, capital Bratislava.

o Broadcast at 09.00z starts with CQ msg and qtc list.
  Freqs 9266 12208 18318?

o Frequencies referred to by letter eg "G".

o Reported callsigns/selcals for parent MFA/Embassies:
  OMZ66 MFA Bratislava
  1A7 unid

o Transmission modes used: CW, Baudot 100bd(R)/400hz

o Logged frequencies:
  5742 6838 7898 7958 8006 9266 10913 11410
  12208 14480 15943 18318 19318 kHz

o Reported frequencies:
  7404 9300 10160 10163 14401 15943 16315.5 18318
  18319 kHz

o Sample message formats:
Example #1 - Start up and Slovak press

```
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
ryryryvyryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
de omz66 omz66 omz66 omz66 omz66 omz66 omz66 omz66 omz66 omz66 ry
de omz66 omz66 omz66 omz66 omz66 omz66 omz66 omz66 omz66 omz66 ry
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr

gd dr oms vitame vas v dnesnom cq
pocasie: zima, cca minus 8, vietor

dnes pre vas mame px

tlacovy telegram mzv sr pre diplomaticku sluzbu sr
29.12.1995
1. a 2.skupina

<followed by a press review in Slovak>

bratislava, 29.12.1995 john doe

+++m. kaas+++
c.:50.500/95-tlac-tt951229
schvalil: j. nobody r-tlac mzv sr
```

Example #2 - message to selected embassies

```
bratislava 2.. 1994

pre zu :  alzir., ankara., bercmv bwzilia., budapest., dilli.,
          djakarta., istanbul., kyaav,. lisabon., londyn., madrid
          milano., praha.. rim., sofia., vatikan., vieden., zeneva
```

Example #3 - diplo plain text messages

```
tlacovy telegram mzv sr pre zahranicnu diplomaticku sluzbu
3. februara 1994
1. skupina

     prezident m.kovac prijal 2.2. prezidenta institutu pre
studie vychod-zapad johna e. mroza, ulory ocenil stanovisko sr
gk projektu ppm. mroz vyzdvihol osobnehvosooje m.kovaca, ktoreho
```

tolerantny a umierneny pristup k riefeniu politickych probemov

<clip clip clip>

c.j.50.500 / 94-tlac / 940203++++++++++++

Diplo Corner Extra: PIAB skeds

Markus Buttinger checks in from the beautiful town of Salzburg, Austria, with the current skeds of the German government press station PIAB (Presse- und Informationsamt der Bundesregierung). The broadcasts are in German. PIAB confirms correct reception reports sent to this address: PIAB Bonn, Welcker-strasse 11, D-53113 Bonn, Germany

06:45 - 08:45	7.916 kHz
08:30 - 10:30	13.438,6 and 18.704,2 kHz
09:00 - 11:00	13.570,9 kHz
13:45 - 14:45	7.916 kHz
16:00 - 18:00	7.916 and 9.361,9 kHz

Callsigns: DGL26, DGN43, DGP92
Mode: FEC-A 96 Baud

Fax news round-up
---
o Greek weather fax service test.
  Costas Krallis writes us from Athens with news about a new fax service of the Hellenic National Meteorological Service who transmitted test charts during August starting at 08.45 UTC on the clean frequency of 8105 kHz in various modes. The transmitter site is Athens, the same site that is used by the Civil Aviation Service. The transmissions from Greece on 8530 kHz come from coastal station Athens Radio.

  Try for QSLs the following address:
  National Meteorological Service (E.M.Y.)
  Athens Airport (Eastern Terminal)
  GR-16603 Athens, Greece

o USN Rota's fax service is now also on 9044.5 kHz.

o Les Crossan copied Keflavik, NRK on 9319 kHz sending satpics with 200Hz shift. Up till now the 2100z and 2200z charts have been sent in this format - better than what it was sez Les.

See you all next month. Don't forget to write! -Ary-

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T H E W U N M I L I T A R Y C O L U M N

Editor: Paul Jones
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Email:paul@termcon.demon.co.uk
IRC:#WUN #Monitor - Paul_J

Hi all, well September has been a busy month over in Europe with the NATO Military Exercise Northern Lights and Bright Horizon, which finished on the 12th of Sept. Most activity was heard on 5.709 and 5.392. Also active were 6.284 and 2.576 Khz.

The Exercise consisted of the following:-

More than 2,000 Atlantic Fleet Sailors will participate in NATO exercise Northern Light/Bright Horizon 96, Sept. 8 to 12, in the North Atlantic Ocean and North Sea. The exercise will allow U.S. and NATO forces to conduct combined training in air, surface, submarine and mine warfare. European NATO forces are conducting the exercise, with U.S. and Canadian

units participating in key phases. More than 70 ships from Belgium, Canada, Denmark, France, Germany, Greece, The Netherlands, Norway and Spain will participate.

Norfolk-based ships include command ship USS Mount Whitney (LCC 20), USS Arleigh Burke (DDG 51), USS Thorn (DD 988), USS Nicholas (FFG 47), USS Estocin (FFG 15) and USNS Leroy Grumman (T-AO 195). USS Boston (SSN 703),based in Groton Conn., will join the NATO forces. Detachments from Helicopter Antisubmarine Squadron Light 42 and 49 from Mayport, Fla., will embark aboard Nicholas and Estocin.

This info was posted in the August Newsletter.

o U.S. COAST GUARD
++++++ USCG Communications Station Boston to cease transmissions

Rick Baker sends this report on the fate of USCG Boston, NMF:

I caught this NAVTEX message the other night:

ZCZC FV02
1. REMOTING OF US COAST GUARD COMMUNICATIONS STATION BOSTON MA(NMF).
AS PART OF THE USCG COMMUNICATIONS SYSTEM 2000 PLAN, COMMSTA
BOSTON (NMF) IS SCHEDULED TO RELINQUISH OPERATIONAL CONTROL OF
ALL MF/HF ASSETS TO CAMSLANT CHESAPEAKE VA (NMN) BY 01NOV96. ALL
OF THE SERVICES CURRENTLY PERFORMED BY NMF WILL CONTINUE BUT WILL
BE PERFORMED REMOTELY BY NMN. THE REMOTING OF NMF CIRCUITS TO
NMN WILL BE ACCOMPLISHED IN SEVERAL PLANNED PHASES STARTING
16SEP96. DURING THIS SERVICE-BY-SERVICE CUTOVER, NMF WILL
CONTINUE TO MONITOR ALL CIRCUITS AND BE READY TO ANSWER CALLS OR
PERFORM BROADCASTS IN THE EVENT THAT NMN CANNOT. AS SERVICES ARE
REMOTED TO NMN, CALLS TO COMMSTA BOSTON OR NMF, WILL BE
RESPONDED TO EITHER AS CG CAMSLANT CHESAPEAKE OR NMN AS
APPROPRIATE. THERE ARE NO PLANNED OR SCHEDULED SERVICE
INTERRUPTIONS ASSOCIATED WITH THIS REMOTING. IF UNFORESEEN
INTERRUPTIONS OCCUR, NMN AND NMF WILL ENSURE YOU ARE KEPT
INFORMED OF THE EXTENT AND ANTICIPATED DURATION OF THE OUTAGE VIA
THE MOST RAPID MEANS AVAILABLE. PLEASE KEEP NMN OR NMF INFORMED
OF ANY SERVICE DEGRADATION OR PROBLEMS ENCOUNTERED.
NNNN
BRK

The "CommSys 2000" plan they speak of has already started, with the remoting of NRV, Communications Station Guam, to CAMSPAC Point Reyes, Ca, NMC, and Communications Station Miami NAVTEX and HF radiotelephone service to NMN. The U.S. Coast Guard plans to remote operation of all its communication stations to Communications Area Master Station Atlantic, NMN (remotely working former NMA Miami, NMF Boston and NMG New Orleans), and Communications Area Master Station Pacific, NMC (remotely working former NRV Guam, NOJ Kodiak, and NMO Honolulu), before the year 2000.

Oddly enough, according to another NAVTEX message received from NMC, the callsign NRV is being returned to ID all of the Guam transmitters, replacing NMC which apparently had been used. On NAVTEX, code "A" designates the Miami (former NMA CommSta Miami) transmit site.

So, you have a tad over 30 days left to log NMF as "U.S. Coast Guard Communications Station Boston" rather than as a remote site of NMN. The information below may help:

U.S. Coast Guard CommSta Boston, NMF
900 Ferry Street
Attn: Telecommunications Specialist-in-Charge (TCIC)
Marshfield, MA 02050
USA

Scheduled SSB times (UTC)

0440 2670.0 USCG, COMMSTA Boston
1040 2670.0 USCG, COMMSTA Boston

1640 2670.0 USCG, COMMSTA Boston
2240 2670.0 USCG, COMMSTA Boston

vox: all frequencies are window frequencies.

channel	ship xmt/ship rcv	times
424	4134/4426 khz	(22-1200utc)
601	6200/6501 khz	(continuous)
816	8240/8764 khz	(continuous)
1205	12242/13089 khz	(12-2200utc)
1625	16432/17314 khz	(-- on request only --)

Also on 5696, 8983 night/day primary for CG air.

518.0 Code "F" NAVTEX at 0045, 0445, 0845, 1245, 1645, 2045 UTC

HF DIGITAL SELECTIVE CALLING
NMF - Boston
2187.5 kHz
4207.5
6312
8414.5
12577
16804.5

COMMSTA Boston will normally respond to DSC test calls. HF digital selective calling should be available at other CG Communications Stations and Sections by the end of 1997.

Sitor-B
4215.5, 6314.0, 8416.5, 12579.0. 16806.5

daily sitor broadcasts consists of nam wx parts i and ii, navarea iv, and hydrolants.

0140utc	6314.0khz	8416.5khz	12579.0khz
1630utc	8416.5khz	12579.0khz	16806.5khz

Fax
6340.5, 9110.0, 12750.0 KHZ.

Good luck!

++++

Day Watson sent some information for the web site supporting the Investigations and Analysis Division of the United States Coast Guard:

Marine Safety Information
The homepage of the Investigations and Analysis Division of the United States Coast Guard may now be accessed through the USCG main page via hyperlinks - program and services - marine/maritime safety - investigations.

http://www.dot.gov/dotinfo/uscg/hq/g-m/moa/mao1a.html

For a plethora of other marine safety information please visit -

http://www.dot.gov/dotinfo/uscg/hq/g-m/gmhome.htm

o U.S. NAVY
LPD 17 named
U.S. Secretary of the Navy John H. Dalton on 9 Sept. announced that the lead ship of the U.S. Navy's LPD 17-class Dock Amphibious Transport will be named the U.S.S. San Antonio. LPD 17 will be the first U.S. Navy ship named for the Texas city. Construction was authorized in fiscal year 1996 for U.S.$939 million and she is expected to be commissioned in fiscal year 2002.

Last Los Angeles-class commissioned...
The U.S. Navy's last Los Angeles-class Nuclear-powered Attack Submarine, U.S.S. Cheyenne (SSN 773), was commissioned at 1000 13 Sept. at Pier 12, U.S. Naval Station Norfolk, Va. The Cheyenne is the third ship to bear the name. A converted tugboat was the first, operating in 1885 during the Spanish-American War. The second was Monitor No. 10 in 1902, originally named

Wyoming but later renamed to clear that name for a new battleship. Virginia Sen. John Warner was ceremony's principal speaker. Ann Simpson, wife of Wyoming Sen. Alan K. Simpson, is the ship's sponsor. SSN 773 was authorized fiscal year 1990, laid down July 6, 1992, and launched at Newport News Shipbuilding and Dry Dock on April 3, 1995. The sub joins the Submarine Force, U.S. Atlantic Fleet with Cmdr. Peter H. Ozimek, a native of Westfield, N.J., as the commanding officer. She is homeported at Norfolk.

Harry S. Truman christened

The U.S. Navy Nimitz-class Nuclear-powered Aircraft Carrier Harry S. Truman (CVN 75) was christened at 1000 7 Sept. at Tenneco Corp.'s Newport News Shipbuilding and Dry Dock Co., Newport News, Va. The ship is named in honor of Harry S. Truman (1884 - 1972), thirty-third president of the United States. Margaret Truman Daniel, daughter of the late president, was the ship's sponsor. Drucie Snyder Horton was the matron of honor. U.S. Secretary of the Navy John H. Dalton was the principal speaker. CVN 75 was authorized fiscal year 1988, ordered June 30, 1988, and laid down Nov. 29, 1993. Upon commissioning in June 1998, she will be homeported at U.S. Naval Station Norfolk, Va. The ship was originally to be named the United States but its present name was announced Feb. 2, 1995. Capt. Thomas G. Otterbein, a native of Bad Axe, Mich., is the prospective commanding officer.

Status of the U.S. Navy: Sept. 16, 1996

Aircraft: 4,859
Ships: 360
At Sea: 170 ships (47%)
Deployed: 98 ships (27%); 51,806 personnel
Exercises: 8
Port visits: 18
SSNs at Sea: 37 (47%)
Carriers/Airwings at Sea:
USS Enterprise/CVW-17: Red Sea
USS Carl Vinson/CVW-14: Op. Southern Watch/Desert Strike, Arabian Gulf
USS Theodore Roosevelt: Western Atlantic
LHAs/LHDs/LPHs at Sea:
USS Boxer: Eastern Pacific
USS Saipan/24th MEU: Eastern Atlantic
USS Tarawa/13th MEU: Indian Ocean
USS Nassau: Western Atlantic

Ships Assigned to Middle East Force:
USS Ardent, USS Dextrous, USS Laboon, USS Doyle, USS Russell, USS Hewitt, USS Vandegrift, USS Stump, USS Groves

Other Exercises/Operations:
Operation Southern Watch/Desert Strike, Arabian Gulf
Counter-drug operations, Caribbean/East Pacific
Unitas XXXVII Phase Five, South Atlantic
Maritime Interception Operations, Arabian Gulf
TWA FLT 800 Salvage Ops/Vicinity Long Island
Neon Falcon, Arabian Gulf

++++

Thanks to Costas Krallis in Greece who spotted this article in one the newsgroup sci.military.naval posted by Andrew Toppan:

The USN and Canadian Fleet Lists on http://www.wpi.edu/~elmer/navy/fleets/ now include homeports for almost all ships, and squadron assignments when these are operationally significant. USCG, RN and RNLN lists do not yet include homeport information (due to a lack of available data).

++++

Ian Baxter in Blackburn, Lancs, UK shares some information he received with his QSL from CanForce 107:

Aircraft is P-3 Orion "Pathfinder" (Canadian Version), from 405 Squadron.

Also based at Greenwood, Nova Scotia are 415 Maritime Patrol Squadron, and 404 Maritime Patrol & Training Squadron, along with 413 Search & Rescue Squadron, and 434 Combat Support Squadron. 404, 405, 407, and 415 Squadrons fly the CP 140 Aurora (a P-3 Orion), 413 Squadron flies C-130s and Labrador Helicopters, while 434 Squadron flies T-33 Silver Star Jets and Challenger Exec Jets.

Thanks Ian!

++++
o U.S. Air Force
BARKSDALE AIR FORCE BASE, La. -- A lot of hard work and a few tense moments paid off early Sept. 3 when 13 air-launched cruise missiles fell away from two Barksdale B-52s and headed for targets in Iraq.

The missiles slammed into surface-to-air missile sites and air defense radars in response to Iraqi ruler Saddam Hussein's attacks on Kurds in northern Iraq. Leading the attack was Lt. Col. Floyd Carpenter, commander of the 96th Bomb Squadron and mission commander of the two-ship B-52 formation. The B-52s and support people remain on Guam, where the strike mission originated, ready to carry out more strikes if necessary.

++++

Now, I would ask anyone who gets any UK or European news items to pass them over, As your probably aware, info regarding the U.S. Military is a darn sight easier to obtain, than anything relating to the UK / European forces.

Information obtained from World Maritime News, SHIPS list, thanks to Steve Schultz; (U.S.) Navy News Service; (U.S.) Air Force News and other sources. Thanks go to Rick Baker, Day Watson, Ian Baxter, and Costas Krallis.

See you next month..... Paul.

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Utility Monitoring in the Maritime Bands

Editor: Day Watson (100712.3154@compuserve.com)
14, Gardens Road
CLEVEDON, North Somerset
US21 7QG United Kingdom

Hi maritime monitors

QTC list this month
- BT Global Challenge
- Maritime Coaststation SELCALS
- UK coastal ARQ channelling
- Portishead HF RT Weather
- Metro Manila Central coaststation
- CW - calling and working bands
- Terminology - TEU
- Station overviews
  - Addresses
  - Nagasaki Radio
  - Perth Radio
- Shipping news.

++++++ BT Global Challenge

29th Sep sees a number of yachts (x14) departing Southampton (UK) on the first leg of the Round-the-World Yacht Race. This leg is to Rio de Janeiro.

This race is sponsored by British Telecom (BT). For further information have a look at the challenge website http://www.btchallenge.com.

As far as communications are concerned the website tends to be fixed on

INMARSAT but a telephone call yesterday evening to Portishead Radio/GKA suggests that use of that will be for slow data communications due to the yacht borne satellite antenna being very small and tending to be continually on the move.

This means that maritime HF RT buffs will have a chance of hearing communications from the competitors.

I am now obliged to Peter Boast, the Operations Manager at Portishead Radio, for a further email today which I think speaks for itself.

"The BT.Challenge Web pages - Check out this one
http://www.btchallenge.com/comms/touch2.htm
It gives Portishead Radio a pretty good write up.

The yachts will have Standard C and 400 Watt Skanti radios.

The Standard C - is a low data rate (600bps) satellite system and it's store and forward Telex/E-Mail only. All voice communications will therefore be via H.F. radio. I "drew-up" a communications plan and trained two crew members from each yacht.

The H.F. comms as you point out will not be straight forward due to the low sunspot count - I have guessed an average sunspot count of 14 for November December. My idea is to split the comms between ourselves and Capetown Radio (ZSC) with some involvement with Sydney Radio (VIS).

Leg 1 UK - RIO - they should be able to get good comms with us
- 12/16 (Mhz) until crossing the equator - then they should
get us well on 16Mhz late afternoon early evening.

Leg 2 - RIO - Wellington - this is the most difficult leg - GKA
early evening and early morning Capetown the rest of the way
from Rio to the Cape Horn.

Cape Horn - 165W A very good "Gray line" path exist between this
area and GKA on 12/16Mhz between 0700 and 1000Z - we will be
looking for them in this window.

165W to Wellington - hopefully they will be able to raise VIS - but
VIS have problems due to relocation which may give problems.
The 0700 - 0900Z path should still be viable on most days.

Leg 3 - Wellington - Sydney - Should be Sydney Radio.

Leg 4 - Sydney to Capetown - should be Capetown and GKA
- GKA 16Mhz 1400 - 1600Z.

Leg 5 - Capetown - Boston - First couple of days Capetown
then GKA midday onwards.

Leg 6 - Boston - UK - GKA all the way 16Mhz 1100Z onwards.

We hope to get a fair bit of traffic from the yachts - best channel to monitor after the first few days will be 1602 -16363/17245, that should be interesting during November/December around 0800Z for a hour or so.

The last few races of this type we have had probably half a dozen phone calls and many standard C messages to each yacht per day! One crew member on a yacht we sent a 12 page message every day."

What more can I say? You have it in a nutshell from the man himself.

As a reminder but without going into a vast table of Portishead's frequencies they operate on the following channels on the 12 and 16 Mhz bands.
1201 1202 1206 1224 1228 1230 1232
1602 1606 1611 1618 1623 1632 1637 1640
Frequencies in use are announced after the traffic lists sent every H+00 on

4384 8764 13146 17245 19755 22711 (whichever currently operational).

But back to the yachts. These are

TOSHIBA	MOTOROLA	OCEAN ROVER
COMMERCIAL UNION ASSURANCE		NUCLEAR ELECTRIC
GROUP 4	PAUSE TO REMEMBER	
TIME & TIDE	HEATH INSURED II	
COURTAULDS INTERNATIONAL		GLOBAL TEAMWORK
3COM	CONCERT	SAVE THE CHILDREN

Refer to the above website for sponsors/crews and other info. In particular read about TIME & TIDE's crew who have more than wind and weather to contend with. I tip my hat to them.

++++++ Maritime Coast Station SELCALs

The following is an up-to-date alphabetic list of SELCALs pertaining to marine coast stations world-wide. This should help you determine which coast station your monitored ship is currently calling.

CQCC	Aqaba/JYO
CVCX	Riga/YLQ
KCKC	Mariupol/USU
KCPX	Odessa/UUI
KFVF	Kuching/9WW20
KFVQ	Penang/9MG
KFVS	Kuching/9WW20
KPCV	Lisbon/CUL
KPVQ	Bern/HEC
KQQV	Portishead/GKE direct and via Wick/GKR1/GNK1 Stonehaven/GND4 Humber/GKZ1
KYKY	St Petersburg/UGC
KYVF	Arkhangelsk/UCE
KYVX	Moscow/UAT
KYVY	Murmansk/UHS
KYXX	Novorossiysk/UFN
KYXX	Vladivostok/UFL
MCFV	Djibouti/J2A
MCKX	Hong Kong/VRX
MCPV	Bahrain/A9M
MCQV	Singapore/9VG
MCSV	Doha/A7D
MFKV	Damman/HZG
MFKX	Damman/HZG
MFVV	Banana/9PA
MKCV	Istanbul/TAH
MKKX	Capetown/ZSC
PCYV	Tallinn/ESA
PFSV	Colombo/4PB
PKVX	Chah Bahar/EQJ
QFMP	Norddeich/DAN
QFSV	Panama Intelmar/HPP
QKCC	Niigata/JNV
QKCF	Fushiki/JNZ
QKCP	Yokohama/JGC
QKCS	Kobe/JGD
QKCX	Nagasaski/JOS
QKCY	Nagoya/JNT
QKVM	Madras/VWM
QKVX	Bombay/VWB
QKYC	Kagoshima/JNJ
QKYK	Kochi/JNO
QKYM	Moji/JNR
QKYP	Sasebo/JNK
QKYQ	Hiroshima/JNE
QKYV	Tanabe/JNH
QKYX	Maizuru/JNC

QKYY	Shiogama/JNN	
QMVK	Kushiro/JNX	
QMVM	Naha/JNB	
QMVQ	Otaru/JNL	
QMVV	Tokyo/JNA	
QMVX	Akita/JND	
QPPV	Rogaland/LGB	
QPQX	Seoul/HLG	
QQVK	Ujungpandang/PKF	
QQVM	Cilacap/PKR6	
QQVV	Jakarta/PKX	
QQVX	Surabaya/PKD	
QSKK	Warsaw/SPW	
QSKV	Gdynia/SPA	
QSKX	Szczecin/SPB	
QSPV	MARITEX channel	Bulacan/DZO Goteborg/SAB San Francisco/KFS Panama Intelmar/HPP Argentina/LSD836 Slidell/WNU
QVXS	Keelung/XSX	
QVXV	Shanghai/XSG	
QVXY	Guangzhou/XSQ	
QVYM	Genoa/ICB	
QVYV	Rome/IAR	
QYFV	Rijeka/9AR	
QYYV	Scheveningen/PCH	
VFKQ	Lyngby/OXZ	
VFXV	Varna/LZW	
VKKX	Perth/VIP	
VMFV	Oostende/OST	
VPFV	CCG Halifax/VCS	
VPFX	CCG Vancouver/VAI	
VQQX	S Vicente de Cabo Verde/D4A	
VQYV	Boufarik/7TK	
VXVX	General Pacheco/LPD	
VXXX	Argentina/LSD836	
VYXV	Rio/PPR	
VYYX	Buenaventura/HKC	
XCKM	Saint-Lys/FFT	
XCVP	Helsinki/OFA	
XFCV	Valparaiso/CBV	
XSQP	Black Star/9GP24	
XSQV	Tema/9GX	
XVSC	USCG San Francisco/NMC, and via Guam/NRV	
XVSM	Globe Radio Network station	Goteborg/SAB Awanui/ZLA Hawaii/KEJ San Francisco/KFS Slidell/WNU Tors Cove/VCT
XVSP	USCG Boston/NMF	
XVSQ	Chatham/WCC	
XVSS	USCG Honolulu/NMO	
XVSV	Mobile/WLO	
XVSX	San Francisco/KPH	
XVSY	USCG Portsmouth/NMN	
XVYF	Madrid/EDL	
XXKF	Hawaii/KEJ	
XXVC	USCG Kodiak/NOJ	
XXVS	Slidell/WNU	
XXXK	Seattle/KLB	
XYFV	Athens/SVU	

If one finds selcals interleaved with the "ererererererer" string then one is looking at a coaststation channel occupied by a station operating the MARITEX

system. The ship will be scanning the appropriate coast station channel(s) waiting for its selcal to trigger an automatic response and transfer of traffic.

++++++ UK coastal ARQ channelling

In running through VOL.1 of ALRS converting station numbers to SELCALs it became apparent that there has been a large reduction in the 2Mhz ARQ facilities. Gone are

GNI1/Niton	3517
GLD3/Landsend	2696.7
GHD2/Hebrides	3607.8
GKR2/Wick	1923.7
GNK2/Norwick	3542.7
GND1/Stonehaven	3615.7
GCC1/Cullercoats	1615

Remaining channelling

GKE1/Portishead	3542.7	ship 2574
GKY1/Portishead	3615.7	2576
GKR1/Wick	1612.5	2147.5
GNK1/Norwick	2832.7	2577
GND4/Stonehaven	2780.7	2515
GKZ1/Humber	3607.3	2496.3

GKE1 was GNK2/Norwick (Shetland Islands) and GKY1 was GND1/Stonehaven. It is assumed that the Tx/Rx equipment remains at those original sites as all the above are remotely controlled from Portishead. GKY1 is currently not omni but beamed north.

++++++ Portishead HF RT weather

Peter Boast has also passed on the news that Portishead Radio now broadcasts the Mediterranean Wx on voice 13146/17245 at 0900Z ditto the North Atlantic Wx at 1100Z.

To round things off he advises (if you WUNners dare listen to broadcast!) a very good source of Utility (and Broadcast) info - Media Network every Thursday from Radio Netherlands
1052z - 6045Mhz (repeated)
1952z - 15315/17605Mhz
2152z - 1440Khz (medium wave).

Vri mni tks Peter for all the above..

++++++ Metro Manila Central coaststation (Manila)

From Roli Talampas via the SHIPs list comes the following information.

On the 16 Aug President Ramos inaugurated the first phase of the Maritime Communications Projects aimed at establishing the Metro Manila Central Coast Station that will provide a speedy and effective maritime mobile communications network.

The station is composed of three main sites -- the operation center in Mandaluyong City, the transmitting station in Taguig, and the receiving station in Balagtas, Bulacan.

In his remarks at the inaugural ceremony in Malacanang, the President said the completion and implementation of this project would strengthen and expand the delivery of maritime mobile services to the country such as distress and safety communications, ship movement service, port operations service, and public correspondence of ship passengers and crews. He added that the Central Coast Station would initially serve as the backbone for the forthcoming implementation of the Global Maritime Distress and Safety System (GMDSS), in consonance with the Philippine government's commitment to the International Maritime Organization's (IMO) Safety of Life at Sea (SOLAS) Convention.

The implementation of the Maritime Communications Project Phase I was started in 1991, jointly funded by the Philippine government and the OECF under 15th Yen Loan Package.

The supply and installation of the main facilities were undertaken by the TOMEN Corporation as the main contractor and Japan Radio Co., as the main equipment supplier.

++++++ CW - calling and working bands.

I recently replied to a query in respect of areas of CW activity. Although CW calling/working was dealt with in an early WUN the following is a reminder of the bands and procedure.

Ship stations are assigned 10 frequencies in each maritime band as CW calling channels. Coast stations indicate on their frequencies what they are listening to. The outer frequencies of the ten channels are given but stepped in 0.5 khz are NOT channel numbers 1 - 10. The channel/freq combination varies from one band to another.

Calling frequencies	Working frequencies (0.5 khz spacing)
4182 - 4186.5	4187 - 4202
6276 - 6280.5	6285 - 6300
8366 - 8370.5	8342 - 8365.5 8371 - 8376
12550 - 12554.5	12422 - 12476.5
16734 - 16738.5	16619 - 16683
22279.5 - 22284	22242 - 22279
25175 - 25172.5 (3 chan)	25161.5- 25171

Listen for a ship calling - should be something on say 12Mhz calling band along the lines of

GKB GKB de C9EYT C9EYT 429 QTC3 K

The 429 bit means "I intend my working freq to be 12429"

When contact with GKA is made and he says something like "up" or ditdit follow him up to his working frequency. Usually its down in frequency but means up to the working channel.

Whilst monitoring the working frequencies one may find intership skeds at certain times - When I was at sea we had them with different companies but can't remember what they were - will all be changed. But UK used to assign GTZ something eg GTZD as a collective callsign for a specific company.

If anything interesting like that picked up please email.

++++++ Terminology - TEU

I never served on a container ship. In writing this column the SHIPs list is regularly consulted. Therein I find the constant use of capacity in TEUs.

TEU stands for "twenty-foot equivalent unit", in other words a shipping container 20ft long by 8ft wide and 8ft tall. The container capacity of containerships is expressed in TEUs regardless of whether the containers on board are 20ft long.

A ship with a 2500 TEU capacity can carry 2500 shipping containers 20 x 8 x 8 ft. These are often the short containers sitting on semi-trailers one sees on the highway.

A related term is FEU - "forty-foot equivalent unit". which works the same way TEU does.

++++++ Station overviews - addresses

I don't go in for QSLing these days but appreciate quite a few of you do. It was suggested to me this month that I might improve the station overviews by

adding the station address. This is in fact part of my policy PROVIDED I can find it in my source documents. However if any of the overviews lack this info but one of you has that info please let me know.

++++++ Nagasaki Radio Overview

Location: Japan at 32.48N 130.09E

WT service

Watchkeeping - on calling channels 3 4 9 and 10 of the bands in use.
Service hours are shown against frequency. Marker (eg)
"cq de JOS qsx 8 mhz k" - distinctly fast.
Traffic list is sent every OH+30 on the frequencies 4328 6491.5
8706 13069.5 16933.2 22646.5 (if currently open for service.)

JOS	4328	0400-1500
JOR	6457.5	0000-0800
JOS	6491.5	0000-1900
JOU	8463	0000-0800
JOR	8523.4	2300-1500
JOS	8706	H24
JOU	12673.5	0000-1300
JOR	13008	2300-1900
JDB	13063	0000-1400
JOS	13069.5	H24
JOS	16933.2	2300-1000
JOR	17093	0000-1300
JDB	17215	0000-1200
JOU	17220.5	0000-1100
JOS	22646.5	2300-1100
JOR	22659.5	2300-1100
JOU	22690.5	0000-1100

Telex service

Stn nr 2361 ---> Selcal QKCX

	Ship	
4215	4177	[410]
6325	6274	[623]
8424	8384	[815]
12592	12489.5	[1226]
16814.5	16691	[1616]
22384	22292	[2216]

No RT service is provided by Nagasaki.

GMDSS: No watch is maintained by Nagasaki. There are alternative arrangements in Japan.

Address: Nippon Telegram + Telephone Public Corporation,
Coastal station Nagasakiradio,
14-1 Hinode-cho,
Isahaya City,
Nagasaki 854

Research/Acknowledgements.
ALRS Vol.1 (95/96)
CFL Ed.9
Klingenfuss Utility Guide 1996

++++++ Perth Radio overview

Location: Australia at 31.48S 115.53E

WT service

Watchkeeping: as indicated by hours of service. Listens on calling channels 3 4 and 9. Marker "cq de VIP k". * During the period 1300-0100 shown below limited watch is kept for 20 mins after traffic lists on 4/8/12/16mhz.

Traffic list: Every OH+48 on frequencies open for service.
Weather forecasts/navigation warnings: 0148 and 1148 on frequencies open for service (bar 22474).

VIP	4323	0100-1300	1300-0100*
	6407.5	1130-2200	
	8521	0100-1300	1300-0100*
	12952.5	0100-1300	1300-0100*
	17161.3	0100-1300	1300-0100*
	22474	2200-1130	

Telex service

Stn nr 0331 ---> selcal VKKX
Marker: "VIP"

VIP31	4213	4175	[406]
VIP33	8419	8379	[806]
VIP34	12582	12479.5	[1206]
VIP76	12584	12481.5	[1210]
VIP35	16809.5	16686	[1606]
VIP78	16811.5	16688	[1610]

RT service (Radphone).

This service is duplex for link calls.
Watchkeeping: On those frequencies indicated with hours of operation. The remaining frequencies are available on request after an initial call on WT/RT.

4366	4074	[404]	
4369	4077	[405]	
4390	4098	[412]	
4399	4107	[415]	
4405	4113	[417]	
4411	4119	[419]	
4435	4143	[427]	H24
6519	6218	[607]	
8707	-	[834]	
8722	8198	[802]	
8734	8210	[806]	H24
8749	8225	[811]	
8761	8237	[815]	
8767	8243	[817]	
8782	8258	[822]	
8803	8279	[829]	
13083	12236	[1203]	
13152	12305	[1226]	H24
13155	12308	[1227]	
13161	12314	[1229]	
13167	12320	[1231]	
17245	16363	[1602]	
17251	16369	[1604]	2200-1400
17269	16387	[1610]	
17275	16393	[1612]	
17305	16423	[1622]	
22702	22006	[2203]	
22729	22033	[2212]	2200-1400
22762	22066	[2223]	
22777	22081	[2228]	
22783	22087	[2230]	
22807	22111	[2238]	
26148	25073	[2502]	

RT service.

In keeping with other Australian coast stations there is a second RT service which is used to pass traffic on a single frequency (except where another frequency (ship) is shown) simplex basis. Link calls are not accepted.
Watchkeeping: As shown below.
Traffic lists: These are transmitted on
4426 6507 8176 at 0118 0518 0918 1118 1518 1918 2318
12365 0118 0518 2318
Weather forecasts/nav warnings: These are transmitted on
4426 6507 8176 12365 (when open) at 0118 1118 1518 2318

4125	H24	
4146		
4426/4134	HX	[424]
6215	H24	
6227		
6507/6206	HX	[603]
8176	HX	
8291	H24	
8294		
12290	2100-0900	
12365	HX	
16420	2100-0900	

GMDSS: Perth Radio maintains a 24 hour DSC watch for Distress and Safety signals on 2187.5 4207.5 6312 8414.5 12577 and 16804.5. Their MMSI number is 005030331.

Address: TELSTRA,
Perth Radio,
Gnangara Road,
POB 1115
Wangara 6065

Research/Acknowledgements.
ALRS Vol.1 (95/96)
CFL Ed.9
Klingenfuss Utility Guide 1996
Murray Lehman (for clean copy VIPs service bulletin)

++++++ Shipping news

Tanker report issued by Jacob and Partners Ltd.

The number of tankers worldwide increased by 41 to 3,291 in the first half of the year, according to a report by Jacob and Partners Ltd. issued 27 Aug. Seventy new ships of 7.4 million dwt were built, while 29 were scrapped. Newbuildings in the first half of 1993, for example, were 17.4 million dwt, and this year so far pales in comparison of 1975's 44 million dwt. Japan and South Korea built 85 percent of the new tankers, and accounted for about 70 percent of orders. Spain led the European countries, followed by Croatia and Ukraine at three each. In all, 66 ships of 4.3 million dwt were ordered. Among those scrapped were seven v.l.c.c.s.

P&O Containers and Nedlloyd Lines to merge, order two 6,674 teu ships

P&O Containers Ltd. and Nedlloyd Lines announced 9 Sept. they will merge to form P&O Nedlloyd Container Line by 31 Dec. The line will operate 112 ships and 540,000 teus, and with 224,000 slots, will be the largest containership firm in terms of fleet size. The firm will be registered in the U.K. but operations will be based in Rotterdam. All P&O Container units will become part of the new firm, including P&O Logistics, except for Southampton Container Terminal, Tilbury Container Services and a few smaller operations. Royal Nedlloyd will pay U.S.$175 million to P&O Containers to equalize shareholding, so that P&O Nedlloyd is equally owned by Peninsular and Orien-

tal Steam Navigation Co. and Royal Nedlloyd N.V. The company will have a turnover of U.S.$4 billion and net assets of U.S.$1.5 billion. Throughput of the new line is predicted at 2.3 million teus annually, making it third in the world along with Sea-Land Service Inc. P&O Nedlloyd also said that it will order two 6,674 teu containerships that P&O Containers had as options and add two options.

Turkish Marine Ministry to be formed

A Turkish Marine Ministry will be set-up by November to aid the Turkish maritime industry.

M/V Song of Norway sold

Royal Caribbean Cruise Lines has sold its first ship, the M/V Song of Norway, for about U.S.$40 million to Airtours P.L.C. The 1,062 passenger ship will end its last voyage for RCCL in Miami on 16 Feb. Its distinctive, and RCCL-unique, Viking Crown Lounge will be removed before she is transferred to Airtours. As of May, the 23,005-gt ship will be operating either in the Caribbean or the Mediterranean. She was built in 1970.

Carnival and Hyundai Merchant Marine in joint venture

Carnival Corp. and Hyundai Merchant Marine have announced they will form a joint venture to develop the Asian cruise market. The new venture, as yet unnamed, will buy Carnival Cruise Line's M/V Tropicale (36,674-gt, 6,654-dwt, 200 meter/660 foot long passenger ship with 26 meter/85 foot beam; built in 1981 at Aalborg Shipyard) and in spring 1998, the ship will offer cruises from Inchon to China. In the winter, she will sail in Southeast Asia. The M/V Tropicale was refitted in 1989 and 1994, and will be refitted again before 1998. She has capacity of 1,400 passengers and 500 crew.

Cunard sells the M/V Cunard Countess

Cunard Line has sold the M/V Cunard Countess (2,642-dwt, 17,593 ton displacement passenger ship built in 1975, refitted 1983) to Awami Cruise Line for U.S.$23 million. The transfer of the 750-person ship will occur 26 Oct.

Renaissance Cruises orders two ships

Chantiers de l'Atlantique has received an order for two 375-cabin passenger ships from Renaissance Cruises. They will be delivered in June 1998 and February 1999. The U.S.$500 million order includes an option for a third.

Harland and Wolff to repair the M/T Sea Empress

Harland and Wolff, Belfast, have received a contract to repair the M/T Sea Empress (Liberian-registry, 147,273-dwt, 900 foot long single-hull tanker built 1993) which ran aground late 15 Feb. off St. Ann's Head near Milford Haven, Dyfed County, Wales. Ruptured cargo tanks spilled about 19 million gallons of oil effecting hundreds of miles of coastline. She was refloated 21 Feb., and after unloading her remaining cargo, the ship was towed to Harland and Wolff. At least 2,800 tons of metal will be required for a cost of at least U.S.$20 million. Work should be completed by spring 1997.

"M/V Glomar Explorer" to go to sea again

Global Marine Inc. has leased the "M/V Glomar Explorer" from the U.S. Navy for 30 years. She will be used to drill test petroleum wells in the Gulf of Mexico under a five-year, U.S.$260 million contract from Chevron and Texaco. First, Global Marine, which designed her, will spend U.S.$160 million to remove heavy lift equipment to make her the largest drilling ship when she enters service in early 1998. The "M/V Glomar Explorer" will be able to drill to depths of 3,050 meters/10,000 feet. Global Marine will pay the U.S. Department of Defense U.S.$200,000 for the first two years, then U.S.$1.78 million annually for the next 28 years. The M/V Hughes Glomar Explorer, officially classified as heavy-lift salvage ship AG 193 by the U.S. Navy, was built in 1973 at Sun Shipbuilding and Dry Dock Co., Chester, Pa. Given the

cover of a deep-sea mining ship of Summa Corp. (for a Global Marine contract) for Howard Hughes, it has long been understood that the vessel was built for the U.S. Central Intelligence Agency to recover the Soviet Navy Golf I-class Ballistic Missile Submarine PL-722, which sank in the northern Pacific, 1,200 kilometers/750 miles northwest of Hawaii, in April 1968.

Above items thanks to Steve Schultz and the SHIPs; Fairplays News, and other sources.

And that winds it up for me for another month. Regards Day

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New Products, Books, News and Reviews
Rick "RD" Baker, editor
1352 Cavalcade Dr., Austintown, Ohio 44515-3844, USA
utelistener@msn.com or ae411@yfn.ysu.edu

|Items to be reviewed, information about new products, books, software, or |
|events that would be of interest to the WUN membership, send them in care |
|of this column (not via the clubs D.C. address to save mail costs) |

SOFTWARE REVIEWS
o Scancat Gold V6.0 from Computer Aided Technologies

If you have not gone with computer control software for your shack yet...you should! I highly regret I did not make the move sooner. The software I look at this month was one of the first computer control programs on the market ('Scancat'). SCANCAT GOLD, now in version 6.0, covers not only HF rigs, but scanners and some TNC's/decoders!

Installation and Set-up
The software installation was straight forward and fairly easy. For my review the software was run in a Compaq Presario 982 with a Pentium 90 processor running Windows95. Although Scancat Gold is a DOS program, it runs fine in Win95 in a DOS box. I also ran it in Win95 "in the background" and minimized on screen. Worked great. There is no Mac version yet, but a Windows version is in the works. You will need about 2-1/2 megs of free space on your hard drive to install the program. I used the serial cable and RS-232 connector from Computer Aided Technologies to connect the computer to my Icom R-72. This is an extra cost, although these items can be bought elsewhere if you don't have a direct RS-232 port or the cables for radios like the R-72 that have a miniature pin computer connection. The Icom timing was a tad difficult to get right, but that was the hard part. The manual provides easy step-by-step instructions for most operations and is some 100 pages with an index.

Requirements
SCANCAT GOLD will run in just about anything from 8088 pre-286 systems to Pentiums with MS-DOS 3.0 or greater, with at least 640k of RAM and at least 1 serial port. You do not need a color monitor or graphic's card.

Radios Supported
Radios supported by SCANCAT GOLD exceed 35 and is growing:
AOR-8000 -Newest handheld and AOR2700 (Includes EEPROM upload utility to enable those "blocked" frequencies)
AOR3000/3000(A) & AOR2500, AOR-3030 HF receiver
DRAKE R-8(A)
MOST Icom Radios, including R71A, R72, R7000, R7100 and R9000.
Kenwoods Including TS-440, TS-450, TS850 & R-5000
MOST Yaesus including FRG-8800 & FRG-9600 Yeasu. PLUS FRG-100, FT-840 and more.
The NRD-525 & 535 Japan Radio
LOWE HF-150 and HF-250
WATKINS JOHNSON HF-1000
OPTO ELECTRONICS add-on boards for PRO series Radio Shack Radios (OS456 and OS535)

SCOUT (ALL scouts and also features on Xplorer that are same as the Scout) Read memories to a SCANCAT file.

What it does

The biggest benefit is the increased scanning speed. You can cover many more frequencies per minute than what your receiver will scan at. This is quite a feat when coupled with the second neatest benefit...being able to scan frequency banks of 2 frequencies up to 1,000 or more frequencies! Depending on the type of file you create and of course your hard drive space that is free -hi! I went kind of crazy and created about 40 files. For example, I have one called NASA which is every known/logged HF frequency ever used by NASA, for those space shuttle missions. Another is called MYSTIC and includes every known USAF Mystic Star frequency. I now have one for almost every occasion! I think you get the picture. Remember, SCANCAT GOLD covers scanners too, and in the case of Icom radio's, it will control a Icom HF rig and a Icom VHF rig at the same time. For you scanner buffs, it will decode and log CTCSS, DCS and DTMF tones. You can actually scan several different frequency FILES in the same pass (15 in all). You can also toggle any or all on/off as you please. That's 15 files (or you scanner folks may think of them as "banks" -hi!) of 400, 500 or 1,000 frequencies per file!

You can create your own files by several methods that allows the input of data such as Frequency, Mode, Step, Remarks, etc. The default screen presents you with a radio screen view of what your receiver is doing, such as frequency readout as it scans, the mode, and signal strength. You can lock out frequencies, such as for birdies, from this screen also. Using the SCANPORT-GOLD utility program included with SCANCAT GOLD, comma delimited files can be read and converted to a SCANCAT frequency file for immediate use. SCANPORT-GOLD can read and convert directly to a SCANCAT frequency file D-BASE files (.DBF) such as Percon and Grove Enterprises frequency database for example, and the just recently added 'MR SCANNER's' CD rom. The direct import of TRS Consultant's schedules is fully supported. You can convert SCHEDULES (tm) Shortwave Files Directly to a SCANCAT-GOLD file. All Automated with no setups necessary. It will even import files from an ASCII dump of a data base or frequency list. This is a very slick option as the data need only be in columns and away you go! I had a ball with the WUN Logs files.

The built-in QUIKTERM (c) Communications Terminal program now has programmable Macro Keys to drive your favorite TNC.

There are so many features that after making notes for over a month, and using the program for about three months...I'm sure I've forgotten something and I've only touched on the "scanner" options many of you may be interested in, since I have restricted the most of my testing and review to "utility station" listening. But one can see how it would benefit even a shortwave "broadcast listener" and scanner folks too. This is a very advanced program that does not take a rocket scientist to install, work or run. Support is provided via e-mail, phone or BBS and a demo version can be obtained direct or from their website listed below.

SCANCAT GOLD 6.0 is available from many vendors of shortwave/scanner radio equipment for under U.S.$100.00, or direct from:
Computer Aided Technologies
P.O. Box 18285
Shreveport, La. 71138
1-318-636-1234 Order Line.
1-318-686-0449 Fax 24 hour.
1-318-687-2555 Live tech support - 9 AM to 1 PM CST (1500/1900 UTC)
NiteTime BBS - 1-318-631-3082 7 PM to 6AM CST (0100/1200 UTC)

By e-mail: scancat@scancat.com
http://www.scancat.com

BOOK's YOU'LL LIKE

o 1996/1997 Guide to Worldwide Weatherfax Services 16th Edition by Klingenfuss Publications

The 16th edition of this well known manual comes in at over 420 pages and is in softcover. Chapters include; Equipment; Technique; Standards; Radio Amateurs; Meteorological satellites; Frequency List of radiofax stations;

Alphabetical list of radiofax stations; Callsign list of radiofax stations; Schedules; Sample Charts and Pictures; and Abbreviations.

The biggest addition to the 16th edition is the addition of internet addresses and web site locations where one can access this data direct or obtain station information like schedules and even get the latest forecasts.

The chapter on Technique walks you through the complete transmission process for drum scanning and flatbed scanning along with physical principals, and reception.

Getting into the Standards chapter, one can learn the complete characteristics of the equipment used, such as scanning direction, index of co-operation (IOC), scanning line frequency and density. This chapter goes on to cover remote control signals; modulation characteristics; and analogue facsimile along with other subjects. Examples of test charts are shown.

Of course the meteo birds are extensively covered in Meteorological Satellites with even individual satellites covered.

The chapters covering the stations by frequency, name and callsign are complete. But taking up the bulk of the book (like 300 pages), and of real help inidentify a station or type of chart, is the chapter 'Sample Charts and Pictures'. Samples are provided from almost every station listed, along with any known web site address, which are arranged by country.

In short, this book covers the facsimile/weatherfax end of the hobby A through Z. If you are a fax/weather buff or would like to learn more, I strongly suggest this detailed reference.

1996/1997 Guide to Worldwide Weatherfax Services 16th Edition by Klingenfuss Publications is available through most sellers of hobby books and shortwave radio products or direct from Klingenfuss Publications, Hangenloher Str.14, D-72070 Tuebingen, Germany

For more information: (phone 49 7071 62830) or by e-mail 101550.514@compuserve.com http://ourworld.compuserve.com/homepages/Klingenfuss

o Seefunk by Rainer Brannolte and Wolf Siebal
ISBN 3-89632-013-0

Seefunk is "Sea Radio" in English, and although this book is written in German, it still can used by non-German speakers as an information source. It comes in at about 380 pages and is softbound.

Maritime coastal stations are listed by country in the first section. A nice touch is the addition of maps at various points in the book showing where the stations are located exactly.

In the next section is a list by frequency from medium wave up to shortwave (26 Mhz maritime section). The frequency list includes voice/SSB, CW, and sitor/RTTY. The last section is a very complete list of station callsigns. Naval stations are also listed with the maritime coastal stations in every section. So, under Germany (Deutschland) we find Norddeich Radio listed right along with "Bundesmarine" Wilhelmshaven, DHJ59. Addresses are also given for the listed stations.

So although a non-German speaker might loose some of the details in the written sections, the vast majority of the book is not hard to understand at all. There are very few pages of strictly "text". Sitor is still spelled "sitor" and "Khz" is Khz.

The QSL's displayed throughout the book are also a treat that makes you want to get pumped up and try to QSL some of these guys! On page 184 is a Halifax Coast Guard QSL signed by our very own WUN'er Robert N. Ward. It was interesting to see the cover of the book on which are two German Coast Guard vessels, of which I have never seen one before. They are painted "SAR Orange" and white with the large letters "SAR" painted on each side of the bow.

A very detailed and well done reference into the world of maritime comms under 30 Mhz. Seefunk by Rainer Brannolte and Wolf Siebel is available at dealers throughout Europe, but not elsewhere. But it can be ordered direct from the publisher Siebel-Verlag, Auf dem Steinbuechel 6, D-53340 Meckenheim, Germany. The price is DM 29,80 or about US$27. Write for further details.

o NEWS

St Helena Day

Although not a 'utility station', the appearance of this broadcast station is an event that draws ute folks as well as broadcast folks for one

of the more elusive QSL's around. For the first time in about two years, Radio St. Helena will be on the air October 27, 1996, 19-23 UTC on 11092.5 kHz USB.

Scheduled programs include:
Official opening by St Helena Governor.
St Helena Tourism.
The Napoleonic Museum at Longwood House.
Books on the market about St Helena.
Information about the only paper from St Helena.
St Helena stamps - how to purchase.
Environment - The Conservation Program for St Helena
Of course - international calls LIVE

For QSL's, no E-mail but use the fax (+290) 4542 or simply the snailmail address of: Radio St. Helena, Jamestown, St. Helena, South Atlantic Ocean
Telephone +290 4669, Fax +290 4542, Telex 4202 GOVT HL
Station Manager: Tony Leo

All needed information about Radio St. Helena and the island can be found at: http://www.sthelena.se

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Editor: Martin C. Barry <martin.barry@medspec.com>
6875 Fielding #02
Montreal (Quebec)
Canada H4V 1P3

STATION/VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

FIXED STATIONS

NDB Coolidge/ANU	351.0	A2A	PFC	69 ds	f/up, hrd on GDL	(AI)
NDB Coolidge/ZDX	369.0	A2A	PFC	69 ds	f/up, hrd on GDL	(AI)
NDB Tenerife Norte/FP	420.0	A2A	PFC	91 ds	hrd on CNR	(AI)
NDB Gran Canaria/VR	365.0	A2A	PFC	91 ds	hrd on CNR	(AI)
NDB Barlovento/BV	389.0	A2A	PFC	91 ds	hrd on CNR	(AI)
NDB Tenerife Norte/TX	410.0	A2A	PFC	91 ds	hrd on CNR	(AI)
NDB Tenerife Sur/TES	317.0	A2A	PFC	91 ds	hrd on CNR	(AI)
NDB Hierro/HR	376.0	A2A	PFC	91 ds	hrd on CNR	(AI)
USAF MacDill/AFE3	15016.0	USB	PFC	31 DS	+ QSL ltr	(AI)
CFARS Dartmouth/CIW824	14384.5	USB	PFC	12 ds	+ ham crd	(AI)
Entebbe Aero	11300.0	USB	PFC	34 ds	+ ltr, 6th try!	(AI)
Conakry Aero/GUI	8861.0	USB	PFC	45 ds		(IB)
Kinloss Rescue/G	5680.0	USB	PFC	15 ds		(IB)
AF MARS Lexington, KY/AFF2CP	13927.0	USB	PFC	15 ds		(IB)
AF MARS Salt Springs, FL/AFA2XZ	13927.0	USB	PFC	16 ds		(IB)
AF MARS Binghampton, NY/AFA1YV	13927.0	USB	PFC	12 ds		(IB)
Rogers City Radio/WLC	4077.0	USB	PFC	407 ds	+ card, info	(IB)

MILITARY/COAST GUARD SHIPS

FGS Bremen (F-207)/DRAQ	8335.5	USB	PFC	20 ds		(AI)
FGS Bremen (F-207)/DRAQ	10192.5	USB	PFC	15 ds		(IB)
FGS Freiburg/DRKC	8335.5	USB	PFC	72 ds	+ cap ribbon	(IB)
Ammersee/DRKJ	3116.0	USB	PFC	25 ds	+ photo	(IB)
Pelikan/DRBM	3116.0	USB	PFC	24 ds		(IB)
USS Ford/NNN0CFB	14441.5	USB	PFC	43 ds	+ photo, ltr	(IB)
FGS Rhein (A-513)/DRHL	4145.5	USB	PFC	54 ds		(AI)
FGS Brandenburg (F-215)/DRAH	3116.0	USB	PFC	16 ds		(AI)
FGS Bayern (F-217)/DRAJ	3116.0	USB	PFC	9 ds		(AI)
FGS Konstanz (M-1081)/DRED	4145.0	USB	PFC	51 ds		(AI)
U-13/DRDG	8335.5	USB	PFC	21 ds		(IB)
FGS Elbe/DRHJ	8335.5	USB	PFC	14 ds		(IB)
U-30/DRDX	10192.5	USB	PFC	162 ds		(IB)
HMS Brazen	8240.0	USB	PFC	20 ds	+ sticker, photo	(IB)

USAV El Caney/ADMO	8297.0	USB	PFC	104 ds	+ ltr	(IB)
USAV Mechanicsville/ADMY	8297.0	USB	PFC	51 ds	+ ltr	(IB)
USS Conolly/NNN0CVP	14441.5	USB	PFC	210 ds	+ photo	(IB)
USCGC Bear/NNN0CCK	14441.5	USB	PFC	49 ds	full data	(MR)
USS John F. Kennedy/NNN0CXB	14451.5	USB	PFC	25 ds	full data QSL	(MR)
USS Spruance/NNN0CUO	14441.5	USB	PFC	34 ds	full data QSL	(MR)
USS Kidd/NNN0CYL	14441.5	USB	PFC	22 ds	full data	(MR)
USS Robert G. Bradley	14441.5	USB	PFC	20 ds	full data	(MR)
USS Mississippi/NNN0CVS	14441.5	USB	PFC	67 ds	card + diagram	(MR)
USS Leye Gulf/NNN0CBE	14441.5	USB	PFC	27 ds	full data	(MR)
USS Essex/NNN0CRU	14441.5	USB	PFC	24 ds	full data	(MR)
MARS Sta. Fullerton, CA/NNN0TSD	14441.5	USB	PFC	8 ds	full data	(MR)
MARS Sta. FL/NNN0XPQ	14441.5	USB	PFC	5 ds	full data QSL	(MR)
USAV James A. Loux (LSV-6)/AAFA	8297.0	USB	PFC	213 ds	letter, folder	(RA)

CIVIL SHIPS

Imagination/3EWJ9	8267.0	USB	PFC	27 ds	postcards	(IB)

CIVIL AIRCRAFT

Triangle Air TRU-705/EL-ZGS	11300.0	USB	PFC	4 ds		(IB)
Centennial CNA-556/EI-CLP	5598.0	USB	PFC	24 ds	+ sticker	(IB)
General Aviation/VH-JFT	5616.0	USB	PFC	20 ds	+ card	(IB)
Atair/ZS-NKD	5634.0	USB	PFC	90 ds	+ photo	(IB)
Uganda-575/5X-USM	5658.0	USB	PFC	33 ds	+ photo	(IB)
Hershey Foods/N19HF	6577.0	USB	PFC	57 ds		(IB)
Roy-451/C-GRYQ	6577.0	USB	PFC	22 ds	+ info	(IB)
Occidental OCT-622/EL-AKU	8903.0	USB	PFC	22 ds	+ sticker	(IB)
Johnson & Johnson/N600J	8846.0	USB	PFC	28 ds		(IB)
Vasp-67	8861.0	USB	PFC	35 ds		(IB)
Citiflight Inc./N399SW	8864.0	USB	PFC	18 ds		(IB)
Atlas Air/Giant-901	8864.0	USB	PFC	103 ds	+ pin	(IB)
SkyAir Cargo/EL-JNS	8903.0	USB	PFC	25 ds	+ photo	(IB)
Capricorn Flights/D2-FLY	8903.0	USB	PFC	72 ds		(IB)
Jordanian 261-A	8906.0	USB	PFC	20 ds	+ sticker	(IB)
Snam, S.p.A./I-SNAC	8930.0	USB	PFC	92 ds	+ photo	(IB)
Pacific Air Express 3517/N360Q	8867.0	USB	PFC	30 ds	Lockheed Elect	(JSM)
Heavylift 878/RA-82045	6535.0	USB	PFC	7 ds	+ decals, photos	(JSM)
Air Van 32/VH-TJI	5643.0	USB	PFC	23 ds	B737-400, Vanuatu	(JSM)
Ansett 874/VH-EWD	5643.0	USB	PFC	25 ds	Fokker F-28	(JSM)
Freedom Air 712/N371TA	5643.0	USB	PFC	26 ds	B737-300, Dunedin	(JSM)
Guyana-715	5550.0	USB	PFC	58 ds	+ letter	(IB)

MILITARY/GOVERNMENT AIRCRAFT

USNRP Squadron 91/PM 294	11175.0	USB	PFC	12 ds	+decal, Orion P-3C	(RA)

MARITIME/NAVAL/COAST GUARD STATIONS

AF Monsanto/CSE	8992.0	USB	PFC	221 ds	+ ltr	(AI)

# # #

*** THE LITTLE BLACK BOOK ***

The following addresses were submitted by Ian Baxter, for some of his recent QSL's:

Occidental Airlines
Ostende International Airport
Office P229
P.O. Box 32
8400 Ostende
Belgium

Triangle Airlines
Saturnusstraat 21B
2132 HB Hoofddorn
The Netherlands

CANFORCE 109
405 Maritime Patrol Squadron
14 Wing
Greenwood, Nova Scotia
Canada
B0P 1N0

Conakry Aero
Agence de la Navigation Aerienne
B.P. 3025
Conakry
Republique de Guinee

Steve McDonald sent in these that go with some of his most recent catches:

Charrak Air Pty Ltd.
P.O. Box 222
Lara, Victoria
3212 - Australia

Air Vanuatu
P.O. Box 148
Port Vila
Vanuatu

Freedom Air International
P.O. Box 109 - 698
Newmarket
Auckland, New Zealand

HeavyLift Cargo Airlines Ltd.
Enterprise House
London - Stansted Airport
Essex
CM24 United Kingdom

Ansett Australia
501 Swanston St.
Melbourne
Victoria 3000
Australia

Mike Rivkin submitted these addresses corresponding to his recent 'hot streak' of MARS QSL's:

USS Mississippi NNN0CVS
FPO AE 09578-1167

USS Essex NNN0CRU
FPO AP 96643-1661

USS Kidd NNN0CYL
PFO AE 09576-1265

USS John F. Kennedy NNN0CXB
FPO AE 09538-2800

Whidbey NAS NNN0NUW
MARS Comm - Bldg 20
NAS Whidbey Island
Oak Harbor, WA

Ken Hookanson NNN0XPQ
1510 NE 53rd St.
Ft. Lauderdale, FL
33334

USS Leyte Gulf NNN0CBE
FPO AA 34091-1135

USS Spruance NNN0CUO
FPO AA 34093-1201

USS Robert G. Bradley NNN0CMI
FPO AA 34090-1503

USCG Bear NNN0CCK
4000 Coast Guard Blvd.
Porstmouth, VA
23703-2199

Camp Lejeune NNN0NUW
HQ/Support BN
Bldg PT 5
MCB Camp Lejeune,

David Mann NNN0TSD
1435 Sunny Crest
Fullerton, CA
92635-3750

Andreas Ibold sent in these:

NDB Coolidge
OECS Aeradio
Directorate of Civil Aviation
V.C. Bird International Airport
St. John's,
Antigua,
West Indies

CFARS Dartmouth/CIW824
Mr. Mel Lever
30 Raymoor Drive
Dartmouth, NS
B2X 1G7

CSE
Centro de Comunicacoes
Comando Operacional de
Forca Aerea Portuguesa
Monsanto
P-1500 Lisbon
Portugal

Entebbe Aero
Civil Aviation Authority
6th Floor
Uganda House
Plot 8-10
Kampala Road
P.O. Box 5536
Kampala, Uganda

Canary Island NDB's:
AENA
Division AIS
Juan I. Luca de Tena 14,3a
E-28027 Madrid

Rick Albright sent these addresses:

USNR VP-91
Patrol Wing Pacific
Moffett Federal Airfield, CA
94035

Dept. of the Army
10th Transportation Battalion
Fort Eustis, VA
23604

*** VERIFYING SIGNATURES ***

The following are verifying signatures on QSL's received of individuals to whom reception reports to stations sometimes can be specifically addressed:

Occidental Airlines: Captain Ronald G. Rossignol
Triangle Airlines: Patrick Pascaud (Operations)
CANFORCE 109: Major A.S. Campbell
USS Mississippi NNN0CVS: MARS Officer Monstyla(?)
USS Leyte Gulf NNN0CBE: Jay Langwith
USS Essex NNN0CRU: Bud Turner
USS Spruance NNN0CUO: Lyndon Griffin
USS Kidd NNN0CYL: John Jei(?)
USS John F. Kennedy NNN0CXB: Darren Golez
USCG Bear NNN0CCK: April Nz(?)
Whidbey NAS NNN0CUW: Deborah Banta, MARS Operator
Camp Lejeune NNN0MCL: Lcpl David Hutchinson
Ken Hookanson NNN0XPQ: Ken Hookanson
David Mann NNN0TSD: David Mann
Charrak Air Pty Ltd.: Barry Miller, Managing Director
HeavyLift Cargo Airlines Ltd.: Capt. V.W. Webb, Flight Ops. Manager
Air Vanuatu: Keith Wolloy, Director of Operations
Ansett Australia: H.J. Duff, Manager Flight Services
Freedom Air International: Gerry Bray, Airport Services Manager
CFARS Dartmouth CIW824: Mel Lever VE1VX
USAV James A. Loux (LSV-6): CW2 Michael Minto, Executive Officer

# # #

THE GRAPEVINE: IAN BAXTER notes that now as he is connected to the Internet (ianbaxter@msn.com), he'll be passing on his QSL's to us on a regular basis, instead of handing them off through Rick Baker as before... MIKE RIVKIN says: "I received a call from the JFK when they got into port -- Darren Golez, the MARS officer, called and indicated he rarely receives cards from SWL's and was happy to hear from me! The call blew me away -- totally unexpected!" Mike is also starting to get better QSL results using redesigned PFC's. That and "use of the computer to fill in the base info rather than hand printing it has made a difference." The USS Mississippi QSL came with a brief message noting the ship's decommissioning as of 9/6/96, he says, and the veri from USS Essex MARS was preceded by an e-mail on 8/30/96 confirming reception... ANDREAS IBOLD was quite surprised recently at a remark I had made to the effect that QSL collecting is not one of this hobby's more popular aspects: "In our German 'Newsletter' (of course with a lot of members from Europe) were always one or two pages with QSL results!...For me it is a great part of the hobby and I would not miss it!" Andreas also points out that since he is not connected to the Internet and air-mail postage in Germany is high (3DM which is about $2 U.S.), he can't submit QSL's to WUN as often as he might like, although he has less time on his hands lately to pursue his interest. Following our recent invitation to him to proffer some advice here, he has the following: "I do not have a special secret for QSL'ing. I write a friendly report and from time to time some f/ups. That's all. The only things you sometimes need is LUCK and PATIENCE." Andreas also extends thanks to Rick Baker for recent help with an address... RICK ALBRIGHT reports receiving with his recent QSL from U.S. Naval Reserve Patrol Squadron 91 a "sticker with a miniature 'Black Cats' squadron emblem...it would seem this unit is descended from the PBY 'Catalina' night patrol 'Black Cat' squadrons of WW2."...

// German Form Letter Should Prove Useful //

In response to a suggestion here last month that translated versions of a basic reception report cover letter would come in handy to some of us, Bernie <bernie@netonecom.net> has come forward and produced a version in German. Printed below is the text to that, along with a rendering of a standard PFC. These ought to prove useful to utes unfamiliar with German and who may never have tried their hand QSL'ing German stations due to the language barrier. (We are also currently awaiting translations in Polish, Russian and Ukrainian.) At the same time, Bernie has also sent along the following comments: "As I know no Polish, I would try sending a reception report in German as well as English. Many poles speak German as a second language, and one might well have more luck with the German report than with the English one. In fact, the same would hold true with other countries as well: try a report in the language of a neighboring country if the native language is not available. A French report would likely find readers in Spain, due to the proximity of the cultures. If Southeast Asia or Africa is the target, French may be advised because of the former colonization. It's not necessarily true that other countries don't speak a second language, but that second language may not always be English."

Station Name
Aufmerken: Mitteilungsabteilung
Station Address 1
Station Address 2

Guten Tag!

Ich bin ein Kurzwellezuhoerer aus _____(your location). Es freut mich gern, die Meldungen auf die Hochfrequenzbaender zu hoeren.

Am _____(day/month), 1996, um _____(time) Uhr UTC, empfing ich gern Ihre Sendung an _____ Khz (frequency) auf _____ (mode), mit der Identifizierung _____ (identification).

Vielleicht moechten Sie wissen, dass Ihr Signal hier gut und klar empfangen wurde. Der Empfang wurde mit einem _____ Radio (type of radio) und mit einer
_____ meter lang Antenne (length of antenna*) auf der art zufaellig Laenge/lang Draht (random length/long wire) _____ meter hoch (height*).

Als Teil meiner Liebhaberei sammele ich Bestaetigungskarten von Sender so wie Ihr. Ich moechte gern, Ihre Karte in meiner Sammelung hinzusetzen. Bitte bestaetigen Sie dieser Empfang, wenn er richtig sei. Ich schicke als Einlage eine schon-ausgefuellte Karte (PFC), einen selbst-addressierten Briefumschlag (Self-addressed envelope), und _____(number) Briefmarken (stamps)/____(number) Postgutschein (irc's)/_____ Dollar (dollars).

Ich danke Ihnen herzlich fuer Ihre Hilfe, selbst wenn Sie wohl viele wichtigere Arbeit erledigen muessen. Bitte auch entschuldigen Sie mir die Fehler in dies em Briefe, weil ich kein Deutsch kenne und deswegens diesen Formularbrief nuetz en muesse.

Mit freundlichen Gruessen!

(your name)

Notes:
1. If the author of the letter is a female, change the opening line to: Ich bin eine Kurzwellezuhoererin aus _____. No other changes are necessary.
2. * Length and height should be expressed in meters. The simplest thing is to multiply feet times 3 and round up to the nearest whole number. That should be close enough.
3. The last paragraph says: "I thank you for your help, even though you have much more important work to take care of. Please also excuse the mistakes in this letter as I can't speak German and must use a form letter." (Hopefully

this will elicit a response in English, rather than in German.)
4. In the 4th paragraph, just select what you are enclosing (if anything).

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For the PFC, use the following translations:
CALLSIGN = RUFZEICHEN
STATION = SENDER
QTH = STANDORT
TRANSMITTER/POWER = TYP SENDER/KRAFT
ANTENNA = TYP ANTENNA
LOCATION = STANDORT
For the verification part, use: BESTAETIGUNG VON: (NAME UND STEMPEL)
which means verified by: (name and stamp)

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Thanks to this month's contributors:
(AI) Andreas Ibold, Germany
(IB) Ian Baxter, England
(MR) Mike Rivkin, USA
(JSM) Steve McDonald, Canada
(RA) Rick Albright, USA
Special thanks this month to Bernie <bernie@netonecom.net>

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SURFING THE LONGWAVES

Editor: George Karayannopoulos, N2OWO
karayan@crow.cybercomm.net

RADIO ON AUDIO (part 3)

*** NEWSFLASH *** NEWSFLASH *** NEWSFLASH *** NEWSFLASH *** NEWSFLASH ***

BEACON PYD IDENTIFIED!!!

Beacon PYD, 414kHz, which went unidentified for a very long time, now has been identified. Lowdown, the newsletter of the Longwave Club of America, reports in its September 1996 issue that three bearings taken by LWCA member Don Tomkinson helped him locate the beacon at the old George Air Force Base, in Victorville, California, USA. This is now known as Southern California International Airport (that's VCV for the aerobuffs among you).

Airport authorities did not acknowledge this beacon, however, which leads LWCA to believe that the beacon may be operated by the U.S. Army, which also makes use of the airport. Full id is still pending. If anybody lives nearby, or has any connections to the U.S. Army, or any information at all, please contact me (karayan@crow.cybercomm.net) and I will forward the info to LWCA.

Lowdown goes on to report that there are other unID'ed beacons out there, the most popular of which is GRN on 382kHz. Again, any help with the identification of this one would be appreciated.

See the bottom of this column on LWCA's Web pages, where you can find more info on how to become a member to this VERY worthwhile club! We now return you to your regularly scheduled column.

WSFLASH*** NEWSFLASH *** NEWSFLASH *** NEWSFLASH *** NEWSFLASH ***HSALFSW

Hello again, longwave friends. We continue our column this month with the final part of Steve McGreevy's natural radio article. Enjoy!

''A WHISTLER SERENADE'' (part 3/3)

A LISTENER'S STORY ABOUT ELF/VLF "NATURAL RADIO"
EMISSIONS OF EARTH IN THE 0.1 TO 10 kHz FREQUENCIES

By Stephen P. McGreevy, (spmcgrvy@ix.netcom.com/ s.mcgreevy@genie.geis.com)

One of my favorite examples of intense scrutiny of individual whistlers (by at least 25-30 listening groups or single monitors), was of "The Giant Whistlers" of the morning of March 28, 1992, specifically, of two whistlers occurring about an hour apart. In and of itself, these two huge whistlers are not really different from other strong whistlers which occur in the hundreds and maybe thousands throughout any season, but it WAS remarkable in that they were serendipitously caught on tape by so many listeners, who were participating in a high school student monitoring effort coordinated by a team of scientists and high school professors, called "PROJECT INSPIRE." The INSPIRE effort was sanctioned by NASA to study the ground reception pattern of radio wave emissions from a special "modulated electron-beam" generator (called "ATLAS") aboard the Space Shuttle (STS-45), which flew in late March, 1992. A schedule of ATLAS "transmissions" was established in hopes that the ground-based VLF radio receivers set up by the student groups would hear its emissions. Unfortunately, the shuttle-based ATLAS unit failed after only two (unheard) transmissions. Fortunately, it was decided the students groups and other individuals should adhere to their INSPIRE listening schedule, and also to "backup" listening schedules arranged for the mornings of March 26-30, 1992. It was during many of these scheduled regular and backup listening periods that many interesting natural radio events were captured, including several strong and powerful whistlers. A very detailed report entitled PROJECT INSPIRE DATA REPORT was produced in August 1992 by Michael Mideke, who was the project's data analyst. It is from this report where the following interesting scenarios of whistler reception has been interpreted.

Back to the two "Giant Whistlers" of March 28, 1992. Bill Hooper, shivering at 4 a.m. Pacific time in his camper near California's Death Valley, star ted his tape recorders running once again. Bill was one of many experienced whistler enthusiasts who was monitoring individually but part of the larger INSPIRE student effort. He had set up one of the most sensitive whistler receiving stations by far of the entire group participating in the INSPIRE listening sessions, thanks in part to his remote desert location, great distance from any electric power lines combined with plenty of room for a large antenna and very sensitive whistler receivers of his own original design.

At precisely 4:02:38 a.m. PST, or 12:02:38 Universal (Greenwich Mean) Time, an extremely strong (long, 2-hop) whistler was recorded by Bill at his Death Valley listening site. So very strong was this whistler that it briefly overloaded Bill's receiving system. It also produced a "4-hop echo" which was also clearly recorded on his tape. This whistler was also heard and recorded as far away as the U.S. midwestern region and eastern sea board, but much weaker and "truncated" that is only a fairly narrow spectrum of this huge whistler, in the 3-6 kHz range, propagated eastward. This whistler was also heard weakly to moderately in south-central Texas but again was somewhat truncated there like farther east. Interestingly, a large part of Texas was experiencing heavy rains and lightning storms-whistler receivers in southeastern Texas were picking up very strong, local-like lightning stroke "sferics." If the source lightning of this whistler was in Texas, one wonders how it arrived so loud in the California desert! Perhaps it was generated by lightning strikes somewhere else, perhaps to the north or northeast of California, and far enough as to not really make much of an obvious sferic "pop" in the whistler receiver.

An hour later, a nearly identical strong whistler to the one at 12:02 UT occurred at 13:03:03 UT, this time heard by myself as well as Mike Mideke and others listening in Arizona New Mexico, and even Minnesota. Unlike the

earlier big whistler, this particular whistler as heard in Minnesota was stronger. It also was not as "truncated" as was the earlier strong whist ler. Interestingly, the sferic generated from the causative lightning stroke was rather weak in California, unlike its whistler. Clearly, on this morning the big whistlers were concentrated in the western United States even though the lightning storms weren't. It should be noted there were days when the whistlers were stronger in the eastern United States and were weaker "out West," and point out how the locations of strong whistler activity change day-by-day and can't easily be tied to where lightning is happening. More on this in a bit.

While we are on the subject of loud whistlers and speculation on their originating lightning strokes, I have an anecdotal whistler story of my own to bring in at this point. While on our September 1993 "Big Trip" in my van and eventually to tour the Canadian provinces of Manitoba westward to British Columbia, Gail and I stopped in the eastern Nevada desert about 20 miles west of Wendover, Utah to catch several hours of sleep. Gail and I had driven most of the night across the Silver State after a brief stop the evening before at another favorite natural radio listening spot an hours's drive east of Reno, where we had heard and taped a marvelous variety whist lers, some very strong like the ones recorded by the INSPIRE listening groups in March 1992.

Very sleepy and exhausted after 250 miles east-bound on Interstate 80, we took a remote exit off the freeway and headed south down a wide, unpaved road running alongside some railroad tracks. In the dark, we noticed there were powerlines running along the train tracks, but determined to stop in a spot where we could get some sleep and record whistlers (which I was sure must still be roaring), we kept on going until we saw another smooth dirt road branching away at right angles away from the tracks and pesky wires. Making occasional checks for powerline hum with my WR-3, we drove far enough from the wires at least 5 miles-to where I couldn't hear any hum with my WR-3 whatsoever. By this time, we was just too tired (and now cold) to even set up the better WR-4B whistler receiver's antenna. I just had enough energy to get in the back of the van and tuck myself under the covers, falling quickly asleep.

Awaking a few hours later, I noticed it was somewhat light with a slate-gray sky. Time to set up the WR-4's 10-foot copper-pipe antenna and check out the whistler band. As predicted, there were wonderfully loud "growler" type whistlers roaring out of fairly light background sferic static. I hopped back into bed and switched on my cassette recorder, capturing these great whistlers onto a 90 minute tape. My WR-4B whistler receiver was once again proving to be a truly superb receiver with its van-attached pipe antenna and convenient bedside control box, while the trusty WR-3 made a nice spot checking receiver. With the WR-4B, I could snuggle under the covers and run tape even if I fell asleep while recording. It certainly was a vast improvement over holding our WR-3's out the vehicle window or clamped in the van's door as we did that August 1992 night up the California Coast, and Mike Mideke even commented in a letter: "I was wondering when you'd get out of hand-held mode!" This September 17, 1993 morning, Gail and I were having a nice time parked once again in the beautiful high desert surrounded by beautiful mountains, pungent sagebrush, whistlers roaring in the headphones, and few cares in the world.

The entire 4,500 mile trip through 10 states and 4 provinces was completed in about 2 weeks and over 10 hours of natural radio recordings, including wonderful "auroral chorus" while watching the northern lights dance overhead in Alberta. While many of my whistler and chorus tapes were recorded while tired, semi or fully asleep, I was not able to critically scrutinize what things I was recording until I got home. Herein lies the beauty of taping what you hear events can be listened to again and again in my case usually for the sheer beauty of Earth's natural radio sounds, but also for scientific analysis if necessary. Also, subtle events are sometimes missed while monitoring live due to fatigue, the distraction of beautiful surroundings, and so forth.

What I can explain about those great big eastern Nevada whistlers of

September 17, 1993 is as follows: They were coming from rather weak but distinct and clean "tweaking pops," the kind which are produced by fairly distant ground strikes. Now, I've listened to a lot of lightning sferics while watching the lightning strikes making them, and the sounds of lightning static can be as varied as the visual strikes. I've noticed that the big, bright, single cloud to ground lightning strikes can deliver a very loud but clean "pop" in the whistler receiver's output. Cloud-to-cloud lightning, sometimes tripping other nearby in-cloud lightning, sounds more "crackly" or like the crushing of a Walnut in a nutcracker.

Anyway, interspersed amongst the numerous weak sferics and occasional, huge whistler generating popping tweak were occasional strong and semi-local lightning sferics dry sounding and not tweaking that were generating very weak and quite diffuse ("hissy") whistlers. These strong sferics were coming from lightning within about 50-100 miles of my listening location. Seems they just weren't generating big whistlers or if they were, the whistlers were arriving SOMEWHERE ELSE strong but distant enough to explain their rather weak strengths near their source lightning. So, this idea of lightning stroke energy entering a duct or ducts to travel to the magnetic conjugate and then back again to the general area of their generating lightning strokes is a fairly simplistic explanation and not entirely satisfactory. And, as simplistic explanations tend to do, it fails to consider more complex events taking place...

It is my supposition that, somewhere, as they merrily arch along the magnetic-field lines, whistler ducts can cross, combine, and/or excite each other. In my mind this helps explain why 2-hop whistlers don't always "land" near where their originating lightning stroke occurred, but can wind up a thousand or more miles away! If you will, whistlers can "jump rail" and enter adjacent ducts, winding up curiously far from where they should arrive whistler wanderlust. As such, it is hard to believe southern England and Marion Island would have a dedicated whistler duct connecting them "together" and transferring Marion Island Lightning into Wiltshire whistler crop circles! More than likely, lightning energy from Marion Island winds up occasionally as a short whistler in southern England, but maybe an hour, day or week later, is sending whistlers into France, Spain, Iceland, or maybe Moscow and these wandering whistlers are "bouncing back" as 2-hop whistlers now even more removed from their parent lightning storms!

I think conjugate points (and their associated "impact zones"), caused by variations in the exact position of Earth's magnetic field, can vary daily and even hourly call it "conjugate end-point drift." If the solar wind is pushing against the magnetosphere, either gently or as can be the case after solar flares and "coronal mass ejections" from the Sun rather violently, then the motion of Earth's magnetic field lines and any whistler ducts present within them must also get tugged and pulled to various degrees from their "normal" positions. This and my suggested whistler duct-crossings, jumps, and recombination's must be partial explanations of why lightning in Texas sometimes causes strong 2-hop whistlers in California, or why Nebraska lightning generates huge whistlers in Manitoba that are weaker in Nebraska. Where was the Nevada lightning of the morning of September 17, 1993 sending strong whistlers (if any) to? Where were the rather weak lightning sferics that generated such giant eastern Nevada whistlers? I can also ask, just where was the lightning that spawned southern England's artistic whistlers?

One can't neatly package the fascinating whistler phenomenon with magnetic conjugate points, lightning stroke counts, fixed impact zones, et cetera, et cetera, and expect to easily explain what in reality is a mind-boggling dynamic process that changes like a kaleidoscope and never repeats. While it is intriguing and fun to try and scientifically unravel the phenomenon of whistlers, part of their allure is that they are just there to be listened to they are as nice to hear as sunsets are to see, and the reasons for their existence must sometimes take a back seat to the beauty of their tones.

Neither myself or anyone else have yet to determine if there are "special places" where, perhaps due to local terrain or geology, whistlers are louder and more frequent than average. But, they may exist somewhere. Intriguingly, Edson Hendricks, a researcher into the mysterious "Marfa Lights," heard

extremely loud whistlers issuing forth from a very crude and seemingly insensitive whistler receiver during a display of these strange and spooky colored balls of lights occasionally seen in the desert near Marfa Texas for nearly 50 years. Ed was listening right near powerlines, and their "hum" would have surely been overpowering to more sensitive whistler receivers like my WR-3/4's or BBB-4, and also Mike Mideke's fine RS-3/4's, but Ed tells of these very pure whistler-like notes far stronger than the weakish background hum, as heard in the output of his simple receiver. Something is going on there in west Texas that needs further checking out, and it again points to the great need for more people to join in the whistler listening movement. We would know vastly more about whistlers if there were as many people listening to whistlers as were watching the prime-time fare on television a silly and hopeless wish but even 100 or more people joining the whistler listening movement and coordinating listening schedules would give a clearer idea of when and where whistlers are coming and going.

If whistlers aren't enough of a fascinating pursuit, there are a host of other natural radio sounds which can be heard at the 0.1-10 kHz audio-frequency portion of the radio spectrum to keep enthusiasts hooked on these Earth radio sounds. One of the more common (but less frequent than whistlers) are "chorus," which consists of a series of sharply-rising notes, called "risers." This fairly common phenomenon (but not as common as whistlers) can mimic the sounds of a flock of birds chirping, frogs croaking, or seals barking. Chorus occurs during magnetic storms, when Earth's magnetosphere receives a barrage of high-speed energetic particles cascading into it from solar flares on the Sun or from energy ejections from the Sun's "coronal holes" which allow to escape the Sun in streams traveling at sub-light speeds. This phenomenon of magnetic storms is also responsible for the Aurora Borealis and Australis the Northern and Southern Lights seen in the sky at higher latitudes close to Earth's Arctic and Antarctic regions. Chorus can happen during visible aurora and is called "Auroral Chorus" this sometimes can also be heard over a widespread area at around local sunrise, when it is called "the Dawn Chorus." Often accompanying Earth's magnetic storm associated auroral displays and natural radio chorus is "hiss," "wavering-tones," and other endless varieties of natural radio sounds.

Just when lightning seemed a rather common and well studied phenomenon, awesome as it is, Mother Nature throws another "wow!" at mankind. It seems we can now add the terms "red sprites" and "blue blobs" to our lightning storm vernacular. I am fascinated by recent videotaped evidence presented to the world scientific community and also general public pertaining to massive red and blue bursts of lights occurring as high as 20 to 30 miles above lightning storms. For years, pilots of high-altitude aircraft were reporting sightings of strange blue and red lights seen above lightning storm clouds which were occurring at the same time as lightning flashes in the clouds below.

In the summer of 1994, scientists from the University of Alaska Geophysical Institute in Fairbanks, Alaska were at last able to very clearly videotape these incredible lights using high-speed video cameras located on the ground and aboard two aircraft flying over storms in the U.S. Midwest. As though squirted out of a spray bottle, bursts of red light can be seen bursting upward in a stream right over lightning strokes and flourishing in a great cloud of light, lasting for about 1/10th of a second.

Fascinating as these baffling red and blue lights are, what's even more intriguing to natural radio listeners like myself is a quote from one of the researchers, David Sentman of the U. of Alaska Geophysical Institute, who says that the radio signals, when played through an audio speaker "sound like eggs hitting a griddle." Sounds like the hundreds of thousands of "crackling" sferics I have heard and tape recorded through the years, many of them (but certainly not all or most) have set off nice whistlers. I have always pondered at the sheer LENGTH of many of these lighting sferic crackles quite a few of them are about a second in duration, and there are occasionally crackles which carry on for almost 2 seconds! These times seem far longer than any actual flashes of lightning I've ever witnessed, although it would seem lightning strokes can trigger other lightning strokes (via these immense radio energy impulses), seemingly supporting the reasons for such lengthy

sferic "crackles." Now, it would seem I've been hearing the radio sounds of sprites and blobs I wonder if renaming my WR-3 "Whistler Receiver" to a "Sprite & Blob Receiver" might be appropriate. Seriously, there is thought amongst whistler listeners that these weird lightning stroke emissions are what may be causing whistlers, since they offer visible evidence of a linkage of energy from above the lightning storm clouds toward the ionosphere. They do not occur during every lightning stroke, just like whistlers do not happen after every lightning stroke.

Since the Aurora Borealis and Australis more commonly referred to as the Northern and Southern Lights also generate fantastic VLF radio sounds, it remains a dream of mine to video-tape the Northern Lights while simultaneously recording their radio emissions onto the audio sound track. I have watched aurora in Canada dance in the skies and listened to their beautiful whistling and squawking in the whistler receiver bursts in intense aurora would also create bursts of auroral radio sounds. I understand the U. of Alaska Geophysical Institute in Fairbanks (the same folks studying the "Red Sprites" and "Blue Blobs" over lightning storms) has created an extremely sensitive (equivalent to 2 million ISO) video camera. They videotaped beautiful auroral displays in the Alaskan nighttime skies with astounding high clarity and detail, something never before achieved. Most auroral photography requires time-exposures with still cameras to turn out brightly. But then, the fine detail of the auroral curtains becomes smeared due to the motion of the auroral displays.

The most basic receiver required to pick-up and record whistlers and all of the other Natural Radio signals of Earth is a tape-recorder audio amplifier connected to a wire antenna (aerial) of sufficient length to transfer enough radio energy into the tape-recorder's audio amplifier to successfully record them. In actual practice, however, this crude tape-recorder/audio-amplifier "receiver" will most likely also intercept your local broadcast station transmitting in the long or medium-wave band as well as other signals, and it may not have enough "sensitivity" since tape-recorder inputs rarely are well "matched" in impedance for wire aerials but prefer microphones and such.

Fortunately, whistler receivers are rather easy to construct and are for the most part less complicated than $5 AM "pocket" radio. A handful of parts and a couple of fairly commonplace transistors can form the basis of a very good whistler receiver that will perform very satisfactorily and almost as well as the professional study units that cost upwards of several hundred dollars. Following this piece will be a receiver circuit schematic and some commentary. This whistler receiver circuit has proven to be a very fine "basic" whistler receiver that I have been using (along with several other VLF receiver designs) during the past 5 years of my Natural Radio recording efforts. This receiver is called the McGreevy BBB-4 (Bare Bones Basic, version 4). It is also similar to Mike Mideke's RS-3 and RS-4 designs except it does not include the second audio filter that is present in Mike's designs, and the "front-end" of the BBB-4 is of the design I primarily employ in my whip-antenna receivers.

In closing, I invite readers to join in and listen to the wonderful radio sounds of Mother Earth. You needn't be interested in science or be a radio buff, but need only to have the desire to lend an ear to the extraordinary yet ordinary. Like star gazing, Natural Radio listening redirects the mind and heart toward the wonder and beauty of the natural world.

Stephen P. McGreevy

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Again, a big thanks goes to Steve for sharing his enthusiasm with us!

As I have already mentioned, if you are on the Web, you can find some great samples of recorded whistlers on Steve's Web pages, at
http://www-pw.physics.uiowa.edu/mcgreevy/

Among all kinds of information, Steve has placed a number of zipped sound files for you to download and hear. Check it out!

Also, Steve maintains pages at:

http://www.netcom.com/~spmcgrvy/vlfsound.html
with lots of natural radio info.

If you do not have PC with sound card, or if you wish to hear these sounds on your home, mega-dollar, giga-watt stereo system, Steve's recordings have become available on CD! For details, go to:

http://www.ibmpcug.co.uk/~irdial/vlf.htm

Great info on natural radio on this site too!

By the way, if you are thinking about venturing into radio REAL basement band, you can find plans for easy to build receivers. If you are not the homebrewer type, Steve sells his WR3E radio. You can get info at:

http://www.netcom.com/~spmcgrvy/wr3e.html

(Neither WUN nor I have any connection or interest in Steve's product, or any other radio company for that matter. I just report what I find on the Web.)

For a look at another option for a natural radio receiver check out the following URL: http://www.bluesky.com/warren/radios/vlf.html

It points to a page maintained by an old radio buff, and it contains pictures of a natural radio receiver by Conversion Research. Again, I have no connection with this company and I have not used this receiver. I just found the page while surfing on the Web. Speaking of the Web, have you checked out the Web site maintained by the Longwave Club of America? You can find it at:

http://users.aol.com/lwcanews/index.html

There is also an alternative site at: http://www.anarc.org/lwca/
which is full of very useful information.

Well, time to say goodbye again. Next time we will deal with a band slightly above the longwaves. Until then, keep those articles coming!!

73 es gud DX, de George, N2OWO

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

In this edition I have an interesting article written by Simon Collings for which I thank him very much. I am looking for info about Antarctic radio stations and freqs for a future item in this column. Anyone???

Fran freqs

Lindsay Blanton copied hurricane support traffic during Fran's attack. Note these frequencies as they will probably be used again when the next hurricane arrives.

- 3923 - North Carolina Emergency Net "for admin and tactical use only" by net control! in LSB.
- 3993 - South Carolina Emergency Net.
- 5211 - Lots of callsigns checking in USB. This is FEMA Night Primary.
- 14325 - National Hurricane Watch Net, KC4KOH and K5SIV are net control for this net in USB. Lots of reports on this freq.

ITU's HF Field-Strength measurement campaign

The reasons for the campaign and the continuing need for participation in it, are underlined in resolution ITU-R 27 (HF Field-Strength measurement campaign). So far, regular transmissions have been provided by the administrations of Australia and Norway, and these have allowed a limited number of measurements to be obtained in several different locations of the world.

LN2A in Sveio is operated by the Norwegian Telecommunications Authority and Telenor Broadcasting, and VL8IPS in Darwin, Australia is operated by IPS.

o Radio Beacons LN2A and VL8IPS
  ID Signal (Morse code): LN2A, VL8IPS
  Location: Sveio, Norway and Darwin, Australia
  Hours of transmission: 24h
  Assigned Freqs: 5470, 7870, 10407, 14405 & 20945 kHz
  Transmitter: Icom IC 725 Transceiver, IC-4KL PA
  Transmitted power: Approx. 1 kw on all freqs.
  Antenna: 5 band trap vertical monopole
  Mode: 850 hz F1B, with the "MARK" 800 Hz above the assigned freq. and
        the "SPACE" 1650 Hz above the assigned freq.
  Signal duration and format: as specified in recommendation ITU-R P.845;
  (which is roughly as follows: ID transmitted in morse code (2750ms),
  650ms of mark freq, two 220ms bursts of high speed data 35ms apart, 2770
  ms of 100 baud reversals, 128 bits (1280ms) of 100 baud data, 3140ms of
  space freq 1000ms of 100 baud reversals. Sequence then repeats) 4 minutes
  for each freq, 20 minutes for all five freqs according to the following
  schedule:

Freq.	Times: hour +
14405	00, 20, 40 mins
20945	04, 24, 44 mins
5470	08, 28, 48 mins
7870	12, 32, 52 mins
10407	16, 36, 56 mins

  The Norwegian Telecommunications Authority and Telenor Broadcasting would
  be pleased to acknowledge reception reports of LN2A with a QSL card. The
  contact address is:
  Norwegian Telecommunications Authority (Att. AYO/TF)
  P.O.Box 447 Sentrum
  N-0104 Oslo
  Norway

Sources: ITU, Norwegian Telecomm and one of our members who described the signal format so clearly (sorry, can't remember who it was; tnx !)

Radio Propagation (c) Simon Collings, G4SGI

Radio waves are a form of electromagnetic radiation which lies at the bottom end of the spectrum below visible light. Radio waves have frequencies ranging from almost zero Hertz up to hundreds of Giga Hertz. The spectrum is usually divided up into bands, some of which are:

```
       # Very Low Frequency (VLF)         # Low Frequency (LF)
       # Medium Frequency (MF)            # High Frequency (HF)
       # Very High Frequency (VHF)        # Ultra High Frequency (UHF)
```

There are additional bands both above and below these ranges, but these will not be covered here.
In general, VLF is used for long distance communications over thousands of miles or for special-purpose short distance applications such as for hearing aid inductive loops (public address systems can couple to hearing aids using VLF). LF is used in Europe for longwave broadcasting. MF, also known as mediumwave, is used for broadcasting throughout the world. HF, or shortwave, has many applications including broadcasting, long distance communications and over the horizon radar. It is capable of supporting worldwide communications. VHF and UHF is used for broadcasting and mobile communications mainly over short distances (typically up to 100 kms or more).

Conventional radios cover the spectrum from VLF to UHF. This part of the electromagnetic spectrum contains most of the man-made transmissions that exist. Specialist receivers and aerial systems are needed for the extreme limits of the radio spectrum; issues raised by this kind of operation will not be explored here.

Like all electromagnetic radiation, radio is affected by the medium it propagates through. The type of propagation that can be supported depends on the frequency and other circumstances. This has a bearing on what you can hear with a radio receiver. The known modes of propagation are as follows:

Free-space waves
Ionospheric waves
Tropospheric waves
Ground waves

o Free-space waves
Unimpeded propagation of radio waves through free space. Free space propagation is the least interesting (but the most common) form of propagation. Most VHF and UHF transmissions are subject to free space propagation, although the refractive index of the intervening air becomes important after short distances and other modes occur.

o Ionospheric waves
Propagation influenced by the presence of an electron gas-plasma high in the Earth's atmosphere. The propagation of radio signals over long distances is generally restricted to the high frequency (HF) part of the spectrum (about 3 - 30 MHz), although significant propagation can take place at other freqs in unusual circumstances.

HF signals are refracted from regions of ionization which exist high in the Earth's atmosphere. These regions are known as the ionosphere and consist of layers of ionized gas molecules and free electrons. It is the electron gas plasma which can refract electromagnetic waves and prevent them from escaping into space. The ionized gas molecules are not thought to play a significant role at radio frequencies.

Much of the early research work into ionospheric propagation was done by Professor E.V. Appleton FRS in the 1920s at the Cavendish Laboratories in Cambridge. The exact radio frequency that can be refracted depends on the electron density (which increases with height from the ground) and the angle of incidence of the radio waves to the ionosphere. These depend on the distance between sites, the types of aerials in use and the condition of the Ionosphere.

The amount of ionization (and therefore the electron density in the plasma) depends on the flux of radiation (manly ultraviolet) from the Sun. These separate the electrons from the gas molecules to create the plasma and ions. The level of radiation from the Sun depends on the time of day, season of the year and the phase of an 11 year (approx.) cycle of activity. A good estimate of the level of solar activity can be found by counting the number of Sun spots that are visible on the Sun's surface. These correlate well with the solar flux level and are easy to observe with a solar telescope. DO NOT TRY TO OBSERVE THE SUN WITH THE NAKED EYE OR DIRECTLY THROUGH A TELESCOPE OR BINOCULARS.

During the day, the solar flux increases as the Sun comes into view and the electron density in the ionosphere increases (the ionization extends down through the atmosphere). This allows high frequencies (perhaps around 20 MHz or higher) to be propagated over long distances. Signals are refracted from the ionosphere and reflected back down to Earth in on or more "skips". Large distances can be supported in this way. At night when the solar flux is low, radio energy is absorbed less and the lower frequencies are propagated better.

o The ionosphere is arranged in layers as follows:
D-LAYER. This forms during the day at a height of about 60 - 90 kms from the ground. Since the atmosphere's density at this low altitude is quite high, a lot of absorption takes place especially at low frequencies (up to 7MHz). High frequencies are not as badly affected and they can penetrate to higher levels with relatively low attenuation. During the night, the D layer dissipates quickly and signals at the very bottom end of the spectrum (including medium wave and long wave) are no longer attenuated and can propagate over very long distances.

E-LAYER. This layer is located at about 100 -125 kms from the ground. The

E-layer does not absorb signals as much as the D layer and can support some long-distance propagation. In the Summer (and sometimes in Winter), dense clouds of ionization can form for short periods of time (they are thought to be the result of "shear winds" at high altitude). These patches of "sporadic E" can refract radio signals well into the VHF part of the spectrum. Sporadic E is responsible for long distance reception of VHF Band II signals and is often used by radio amateurs for long distance VHF operating (distances of 2000 miles or more have been achieved).

F-LAYER. Actually, this layer can split into two: F1 and F2 when the solar flux is high (during the day). These layers tend to merge together at night into a single layer. During the day, the F1 layer forms at about 200 kms and the F2 at about 400 kms. The bulk of HF (shortwave) transmissions are propagated by the F2 layer. The altitude of the F layers is so high that it is illuminated by the Sun for long periods of the day and is slow to dissipate at night. The layer is at its minimum just before sunrise and reaches its peak just after midday.

o Ionospheric and geomagnetic storms.
You can hear propagation bulletins on WWV (on 5.000 or 10.000 MHz) and a detailed propagation forecast at the end of the "Media Network" program on Radio Netherlands each week. Alternatively, you can obtain reports direct from IPS Radio and Space Services by subscribing to the rec.radio.info Internet Usenet news group. They post daily reports there and you can also obtain archive data from their website. IPS Radio and Space Services can be contacted as follows:

IPS Radio and Space Services, P.O.Box 5606,
West Chatswood, NSW 2057, Australia
email: rwc@ips.gov.au
WWW: http://www.ips.gov.au/rwc/
FTP: ftp://ftp.ips.gov.au/users/rwc/
tel: +61 2 4148300 | fax: +61 2 4148331

o Anomalous forms of ionospheric propagation include:
Fading, Scatter, Meteor trails and Aurorae

o Fading
This is the most commonly experienced variation in ionospheric propagation. There are several causes of fading including:

MULTIPATH
When a signal is propagated via the ionosphere it is possible for it to do so via a number of paths. When many signals arrive at the receiver, they may be slightly delayed as a result of slight differences in the path taken. These delays can be up to 10 milliseconds in duration. The impact of multipath is to superpose radio waves at the receiver's aerial; if two waves are displaced by an integer number of wavelengths they tend to add together and reinforce the signal, if they are a half-integer number of wavelengths apart they tend to cancel and produce a fade. This has a number effects on radio reception including frequency selective fading (which is often heard as intense distortion when the carrier on a double sideband AM transmission has faded); digital signals suffer inter-symbol interference; and WEFAX images have a smeared appearance.

SUDDEN IONOSPHERIC DISTURBANCES
Intense solar activity, such as from solar flares, can cause a marked increase in the level of ionization present in the ionosphere. This is because a lot of particles and radiation can be released into space by the Sun at these times and it can cause increased ionization in the D layer where a lot of radio frequency energy is absorbed. The result is a deep fade over a wide frequency range which can last from a few minutes to a few hours.

PROXIMITY TO LUF AND MUF
Two commonly referred to terms are maximum usable frequency (MUF) and lowest usable frequency (LUF). These define the useful range of radio frequencies that will be supported between two locations for a given time. Above the MUF, signals are not refracted enough to return to Earth and the signal escapes into space. Below the LUF, radio frequencies are absorbed too much for pro-

pagation. If a signal is near either of these two limits it may be subject to fading as small fluctuations in the ionosphere cause the signal to be lost and regained by the receiver.

o Scatter
The majority of ionospheric scatter takes place as a result of anomalies in the propagating layer of the ionosphere that is being used for a particular path. Patches of intense ionization, or local variations in height, can cause abnormal refraction to take place. These lead to differences in the angles of incidence and refraction that are supported and the strength of signal that is received.

There are a variety of scatter modes including: back and side scatter; tropospheric scatter; trans-equatorial scatter.

BACK AND SIDE SCATTER
These types of scatter are rare and involve deliberate aiming of high gain, high power signals at regions of the ionosphere that scatter the signal. Propagation paths are supported that otherwise be impossible.

o Meteor trails
Meteors create trails of ionization high in the atmosphere as they burn up. A great deal of energy is released as the meteor is destroyed so that even a small meteor can produce a trail that is a mile or so long. These trails can sometimes refract radio waves if they are large enough. However, the free electrons and gas molecules quickly recombine and propagation may only be supported for a few seconds.
This type of anomalous propagation has been successfully used for frequencies near the middle of the HF band (around 15 MHz) well into the VHF part of the spectrum (higher that 100 MHz). The meteor trails need to be about equidistant between the transmitter and receiver; this limits the distance to about 1500 kms.

o Aurorae (Borealis and Australis)
The Aurora Borealis are more commonly known as the Northern Lights and is caused by ionization as a result of a flux of particles from the Sun trapped by the Earth's magnetic North Pole. There is a corresponding Southern Lights known as the Aurora Australis which occurs in the southern hemisphere. Aurora are generally restricted to the polar regions but the Aurora Borealis can occur as far south as the United Kingdom in rare circumstances.
The ionization occurs is curtains which are visible to the naked eye. These support radio random wave reflection at 3 - 5 MHz and propagation in this range over long distances. VHF signals are returned in much the same direction as they were sent. Auroral propagation produces a rapid flutter on signals which ranges from about 100 Hz to 2000 Hz. This makes it impractical for all but morse code.

o Ionospheric and geomagnetic storms
Eruptions of activity from the Sun can cause intense streams of particles and radiation to be ejected into space. If these strike the Earth, they can cause large variations in ionospheric conditions or " ionospheric storms". There are usually geomagnetic storms in progress at the same time.
Both types of storm cause a reduction in the maximum usable frequency that the F2 layer of the ionosphere will support. There is also an increase in the amount of ionization in the D layer where a great deal of radio frequency energy is absorbed. These two effects lead to a depression in ionospheric conditions. In extreme cases HF propagation may no longer be possible.
Such storms vary in size and can cause depressed conditions from one to several days. They tend to recur after 28 days when the same sun spot group on the Sun's surface comes back into view (the Sun has rotated once).

o Tropospheric waves
Propagation caused by variations in the refractive index of the atmosphere in the lower levels (troposphere). Tropospheric propagation is an interesting mode of propagation which does not involve the ionosphere. The troposphere is the bottom 10 km or so of atmosphere and is where the weather patterns form. In this part of the atmosphere, it is possible to refract radio signals in the VHF part of the spectrum as a result of variations in the refractive

index of the air. These variations may be caused by ice crystals, atmospheric pressure changes and temperature inversions (where warm air lies on top of cold). Tropospheric propagation is frequently responsible for co-channel TV interference in which ghosts of another channel can be seen beneath the normal signal.

o Ground waves
Propagation along the surface of the Earth (as evanescent waves). This is only of practical interest with low frequencies (medium wave, long wave and below). This type of propagation is used by cavers wanting to communicate underground and by submarines which need to establish communications while still submerged in the sea. Medium wave broadcast signals are propagated by ground wave during the day but may be subject to ionospheric propagation during the night.

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The WUN Logs Column

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Howdy folks,
We have 77 contributors this month, to which I say "thanks" to all. We have logs from our usual locations, along with Japan, Brazil, and Austria this month.
The gang of Team Logs again asks that especially those who post or e-mail their logs to try and get them as close as possible to our format. Many man hours go into editing logs to the common format seen in the logs below. It seems some folks go out of their way to get the data scattered about as much out of our format as possible. There is a method to our madness! Thanks!

=CIVIL AERO=

2941 Kiev Volmet,URS 2320 USB w/Volmet Tx in russian. (JS3)
3016 REACH 11: 2140 USB posn 45N 43W next 43N 20W (CH)
4654 TWA 904 0423 USB AB-HK wkg Berna R. LDOC/Selcal check. (TO)
4675 Reach 3033 2150 USB 60 10 - 2148 310, Alden 2229-VM, 126.55 at boundary. (JM3)
5493 Jamba 001: 0121 USB Wkg N`djamena. FL410. (IB) Speedbird 56 2258 USB w/Flight info to Brazzaville. Luanda 2258 USB clg Speedbird 56. Kinshasa 2301 USB clg Speedbird 56. N'Djamena 2302 USB wkg Brazzaville. Speedbird 238 2311 USB w/flight info to Brazzaville. Austrian 532 0006 USB w/flight info to N'Djamena. Springbook 225 0011 USB w/flight info to N'Djamena. (JS3)
5532 Springbook 225 2252 USB wkg Joh.burg. (JS3)
5535 Lima Radio: (SAM LDOC) 0725 USB wkg American 951 w/posn ck. (RB)
American 907 0426 USB JL-PR wkg Lima Flight Support LDOC/Selcal ck. Saudia 153 0303 USB wkg Speedbird R. LDOC/RUH-CDG F280 LORNO? 0300 ETA CDG 0530. Saudia 181 0306 USB wkg Speedbird/L1011 HZ-AHE enrt Riyadh (RUH)-Rome (FCO) LORNO 03 F310 ETA FCO 0415. (TO)
5541 KLM 184 1016 USB over northern Denmark, wkg Stockholm LDOC, reception was poor so he QSXed to 10575. (AO)
N625PL 0023 USB AD-EG wkg Stockholm LDOC/747F of American International/Connie Kalitta dep msg OMEJ 2255 ETA OTBD 0054 5541 Air Europe Italy 701 0203 USB wkg Stockholm/Msg for company: dept CUN 2250/2300 ETA MXP 0850 also relayed dept. msg from AEL 731. (TO)
5550 Air Europe Italy 745 0351 USB KR-JM w/NY/ARP JESSE 47 F330. Sobelair 1880 0427 USB CF-ES w/NY/ARP F310 est THANK 0432. N5073 0039 USB HP-CM wkg NY/ARP NUCAR 36 F370 LOUIZ 0042. (TO)
AMERICAN 973 0243 USB BE-FM SELCAL CHECK. (MM4)
5598 REACH 11: 2135 USB selcal ck EG-AB. @ 20W call Santa Maria 3016 (CH)
Ascot 2888 0009 USB w/flight info to Gander. (JS3)
5604 RAINBOW RADIO 2245 USB clg unid a/c w/no reply. Rainbow sounded horrible as if he was talking into a sock (TB)

5616 American 155 2244 USB w/flight info to Shanwick. Royal 72 1227 USB gave posn rpt to Shanwick. (JS3) RCH0023 1927 USB Swk/55N30W 2012 F350 53N40W next. N169CA 1935 USB Swk/53N30W 1921 F430 53N20W 2016 53N15W sel/HRQS.G4 (RD3) Navy JM110 0340 USB wkg Gander/ARP 49N40W F370. (TO)
5637 SX-CBC: 0819 USB wkg Athens R.,selcal EG-CM. OA-4151: 0819 USB SX-OAC, wkng Athens R., selcal check DG-HJ. Skiathos 1335 USB wkg "Athens". Limnos 1601 USB wkg "Athens". OA-417: 1403 USB SX-OAC, selcal DG-HJ. Ioannina 0843 USB wkg "Kerkyra". Message abt a/c 5B-PBY, a Catalina PBY flying boat. The plane was heard on Aug 23, 0802Z on 130.925 MHz (AM) wkg Athens FIC. The plane is HF capablr, but never heard on HF. MSR-799 1125 USB clg "Athens R.". Then QSY to 122.8 MHz (AM) req wx for LFPO. Apollo-375 1442 USB wkg "Athens R.". OA-423: 1102 USB wkg Athens R. selcal CH-DJ. (CK)
5637.5 YO-ABC 0529 USB wkg Bucharest R./YRA. (CK)
5649 Gander Radio: NF, CAN (NAT-C MWARA) 0328 USB wkg Alitalia 639 w/selcal ck JS-CD (767 G-OITA); 0329 TWA 904 w/same EF-AL (747 N93109); 0330 SwissAir 101 w/same DE-GL (747 HB-IGE); 0331 w/Speedbird 224 posn 49N/40W 0331 310, est 50N/30W 0415, 50N/2 W next, adv to call Shannon at 30W; 0332 USB wkg Shamrock 106 w/posn 50N/50W, selcal ck CK-EH; 0336 w/Speedbird 292 selcal ck EF-DL (747 G-BDXI); 0341 w/MartinAir 644, req 350; 0346 w/Speedbird 166 selcal BR-AD (747 G-BDXI); 0349 w/New/Zealand 2 0346 330 60N/50W, next 60N/40W, selcal ck CP-GL (747 ZK-SUI); 0357 w/VirginAir 016 0356 370 48N/40W, est 49N/30W 0439, 49N/20W next, at 30W call Shannon; at 0401 Lufthansa 441 w/selcal ck AL-EG (747 D-ABVE); at 0423 wkg LOT 002, 58N/40W 0418 330, est 58N/30W 0459, 58N/20W next, selcal ck LQ-GK (767 SP-LPA). Shanwick, IRE: (NAT-C MWARA) 0340 USB wkg Lufthansa 812 w/posn 50N/20W 0339 340, est 50N/30W at ?, selcal ck FJ-CD (A-310 D-AIDL); 0356 w/USAir 894 w/posnrep, selcal ck BG-AF; 0403 w/Speedbird 214, posn 50N/30W 0401 390. (RB) Singapore 25 0434 USB FM-BE w/Gander/Selcal check and est. 48N40W. Air Ukraine 110 0543 USB wkg Shanwick/ARP 54N30W F350 IL-62M enrt JFK-Lvov. Gulf Air 034 0600 USB EJ-HR wkg Shanwick/ARP 47N30W F370. COTAM 1082 0045 USB BG-AL wkg Shanwick/ARP 57N30W F370. Liberte 991 0108 USB FL-KQ wkg Gander/ARP 48N40W F330 A300 F-GHEG. New Zealand 2 0349 USB CP-GL wkg Gander/ARP 59N60W F330. (TO)
5652 LAZ-597: 0312 USB Wkg Niamey (IB)
5658 Khartoum 1844 USB clg Cairo. Cairo was very weak. Nairobi 1850 USB adv Air France to QSX to 120.5 MHz. (AO) Cairo: 1900 USB wkg "MKA-119" and "Khartoum". (CK) Mogadishu 1852 USB wkg Addis Ababa. Malaysian 402 1854 USB w/flight info to Bombay. Sanaa,YEM 1908 USB wkg Bombay & Khartoum. Air France 255 1955 USB w/flight info to Addis. Cathay 01 2002 USB w/flight info to Bombay. LH 572 2248 USB w/flight info to Tripoli. AF 493 2249 USB w/flight info to Khartoum. (JS3) Reach 502 2352 USB Cairo,Ktm/ARP SML 0040 F280 Nairobi to Naples, C5B. KQA102 2356 USB Cairo/Ktm/ARP SML0050 F350 HKNA to EGLL.A310 (RD3)
5670 Colombo (Sri Lanka) & Dhaka 2000 USB w/possibly some other ground stations wkg a/c in EE. (RC)
5685 Speedbird 62 1847 USB w/flight info to Mogadishu. (JS3)
5691 Irkutsk 1155 USB w/Volmet bx in RR. (AW)
6577 AEA785 2347 USB New York/Req. selcal check KRJM EICMQ B767 (RD3) N603AL 0312 USB selcal ck FG-AM. (MM4)
6586 TEAL 44: 2217 USB Wkg N. York, descending FL100, & resuming Hurricane Reconnaissance. TU-TAC: Air Afrique-741 1830 USB Wkg Niamey. SELCAL AE-FS (IB) VRBOL 2354 USB NY/ARP ODEAL2350 BACUS0008 F390 Liz.City next To call Washington 127.42.LR55. IBE6170 2354 USB NY/ARP DANER2353 F290 39N60W/0049 41N50W To 8906. AEA767 2355 USB NY/ARP DANER 2353 F330 27N60W 0039 33N50W. AAL7027 2355 USB NY/ARP CHAMP 2351 F370 ODEAL 0023 FLORI sel/GKLR N692AA B757. AAL56 2356 USB NY/ARP LOUIZ 2354 F330 JESSE 0008 BRUNZ.sel/AHLQ N1756 MD11. VIR006 2356 USB NY/ARP ODEAL2355 F330 DANER0015 CLXTN. AAL68 0003 USB NY/ARP LOUIZ0003 F330 HUNKY sel/HPRS N377AN B767. (RD3)
6610 Brisbane 0715 USB wkg VH-TWW a Mooney M20e Craft. RDRA freq. (AW)
6616 VH-XFN Flight West Airlines, Twin Otter 2235 USB in comm's w/ Brisbane. VH-CFL Cape Flattery Silica Mine's Cessna Caravan 2240 USB to Brisbane radio. (SB)

6622 Port Moresby 1010 USB wkg "Alfa November Foxtrot". (AW) P2-MBM 0739 USB w/Pt.Moresby w/pos'n "200mi S. of Moresby". P2-PRA 0759 USB w/Madang / "departing Hagen, 970 for 280". P2-ANN 0800 USB w/Moresby w/posn / "call me now 120.9" De Havilland DHC-7 (Dash 7). P2-ANU 0803 USB w/Moresby / "request traffic?" Fokker F-28. P2-ANE 0804 USB w/Madang/w/pre clearance for Mt.Hagen-Moresby/"we'll be rolling in 1 or 2" / hrd @ 0807 in climb out to 280 Fokker F-28-1000. P2-MFB 0809 USB w/Madang/ re-terminating restrictions/De Havilland DHC-6 Twin-Otter. P2-MFI 0810 USB w/Madang w/pos'n/ "unable contact on 8819 or 6598"/ not above 10,000 restriction Pilatus Britten-Norman BN-2A-20 Islander. P2-MBZ 0713 USB w/Moresby / Beechcraft Super King Air B200. P2-MBL 0726 USB w/Madang re departure clearance to 5000 Dehavilland DHC-6 Twin Otter. P2-CBA 0758 USB w/Madang / a/c type? P2-ANF 0957 USB w/Moresby / taxiing to runway 09 at Nadzab "any reported traffic?" @ 1007 departure/climbing to FL350 for Moresby /Fokker F-28-1000 (JSM)

6628 Navy WV110. 0846. USB. Clg Sta. Maria. 38N.40W. (IB) (WV-xxx are from VR-53, C-130T's from Martinsburg, WV (USN Reserve) -LOGS) KLM 772 0246 BM-CG ARP 18N 58W. AVIANCA 014 0250 GK-DF stated they are a Boeing extended range. LUFTHANSA 536 0252 LM-CR ARP 31N 40W FL 350. VIASA 714 0255 ARP. REACH ODQ2 0302 LM-BK selcal ck. KLM 789 0306 HJ-CG ARP 22N 60W FL 330. (MM4)

6637 Miami: Connie Op's LDOC, Miami, FL, US 0242 USB wkg Amerijet 731 reporting arrival Cancun 0230, departed 0235. (RB)

6640 Air Aruba 7524 0020 USB wkg New York Radio w/ETA Aruba 0220 (TB)

6643 Berne LDOC 1015 USB wkg TWA 819 w/Selcal check. (AO) PH-MCE 0353 USB w/Berna LDOC/Martinair 767-300ER w/pp to MP Maintenance ETA EHAM 0717. TWA 880 0358 USB GL-BH wkg Berna LDOC/Selcal check. TWA 740 0406 USB AF-DE wkg Berna LDOC/Selcal check at 20W. Simba 745 0443 USN wkg Berna LDOC/pp to Company Ops re refueling problem at Cairo. HB-ITX 0453 USB wkg Berna LDOC/req BOS actual wx. TWA 842 0504 USB EF-AK wkg Berna LDOC/Selcal chk at 48N18W. TWA 924 0514 USB EF-AL wkg Berna LDOC/Selcal chk at 51N15W. Air Afrique 530 0514 USB AE-FS wkg Berna/Pp to RKA Abidjan Dispatch in FR: ETA o/h Lajes 0659 depart. JFK 0326 fuel 42.6 F350 req'd Lajes actual wx next call 0625 for further from Ops. (TO)

6724 Unid 2207 USB Lot's of comm's in PNG with talk about aircraft loading & times, P2-MBW of Milne Bay Air alked about, it may be MBA's company freq, but also P2-MBW MBA's Dornier-228, P2-PAT a Pacific Helicopters MD-500, P2-MBM MBS's Twin Otter also on this freq. (SB)

8170 Unid 1244 USB Irish accent talking about golf when male voice told them to move off as channel was 'For Aircraft Service Only' Presume Portishead. (AO)

8825 Viasa-714 0323 USB Wkg N.York. dest: LPPR. (IB) New York: (NAT-E MWARA) 0107 USB wkg Air France 521 reporting level at 350. (RB)

8828 Digi-voice? 0701 USB metro broadcasts, Guam Int'l mentioned. (GG) (should be Honolulu Volmet at this time (H+00) but Auckland uses an automated voice reader -LOGS) Honolulu Volmet (PAC-VOL) 0526 USB w/aviation wx for Anchorage, Fairbanks, Cold Bay, Vancouver, others, fol by ID at 0532 "this is Honolulu Radio". Auckland Volmet, NZ (PAC-VOL) 0550 USB w/aviation wx by a YL voice reader till Honolulu comes back up covering Auckland. (RB)

8846 TEAL 04 2247 USB Wkg N.York. descending FL100. TEAL 06 2258 USB Wkg N.York w/Posn rpts. (IB) New York: (CAR-B MWARA) 1559 USB wkg Delta 162 w/selcal ck HQ-CF (no inf); at 1551 w/American 1425, KRAFT 1550 FL 330, contact San Juan 134.3; at 1621 wkg USAir 1274 posn ELTIN 1621 FL 350, SLATIN next at 1644; at 1631 wkg N357RT, posn TAR A 1630 FL 350, selcal ck CD-AG (Reading Tube Corp, Reading, Pa, Canadair CL-600 Challenger, serial 1033); at 1633 wkg TWA 36 posn CHAMP 1630 FL 290, est HOLMA 1720, KRAFT next, selcal ck DH-FM (new 767?); at 1635 wkg USAir 1460 posn BAC S 1634 FL 310, est ODEAL 1651, PRISS next (RB)

8861 5VTAI: SELF-ID'D FOKKER 28 0702 USB w/comms check/ID ck w/unid ATCC/IFSS. PPJAA 0710 USB wkg Dakar. RA36, next DIBKY 0822, FL 410. CRL991: CORSAIR INTERNATIONAL FLIGHT 0820 USB clg Dakar ATCC/IFSS, no joy. (DW2) IBE6810 0045 USB Dakar/ARP RAKUD 0045 F370 MOGNI 0127 ONOBI sel/AGBC ECDLD B747. (RD3)

8864 Navy LY612 1222 USB Wkg Gander - South Weymouth? (Yes, P-3C of the

VP-92 "Minutemen" at South Weymouth, MA -LOGS). Navy JV390 1255 USB Wkg Gander. Air Club-531 0945 USB Wkg Gander, GS-JP Selcal. Part 01 1731 USB USAF, AZ Wkg Iceland. Navy LW689 1807 USB Wkg Gander, FL250. XA-PUV: Jets Executives 1256 USB Wkg Shanwick.(IB) Tiger 21 1926 USB Inbound to 10deg West, contact Scottish 133.675. (JM3)

8867 NANDI 0642 USB wkg UNITED NATIONS 041. HAWAIIAN 481 0649 USB clg Tahiti. NANDI 0652 USB wkg UNITED 816 told to check on 5643. HAWAIIAN 481 0653 USB still clg Tahiti for the third time. (GG) AirVan-31 0617 USB Air Vanuatu Wkg Brisbane. (IB) Honolulu: (SP-6/7 MWARA) 0514 USB wkg Quantas 3 w/selcal ck, req 330 from 370. Nandi, Fiji: (SP-6/7 MWARA) 0517 USB wkg United 862 w/0515 posrep, FL 330. Brisbane: AUS (SP6/7 MWARA) 0525 USB clg VH-UUA (Swearingen SA-227 Merlin) no joy, at 0543 then works them for posn report; at 0530, wkg "VFJ", poss VH-HFJ, a Falcon 20 out of Cairns; at 0542 wkg New Paradise 70. (RB) ??-VUG 0437 USB wkg Auckland/Tfc report re: VH-HJI is your only tfc on descent into Norfolk Island. Who is -VUG and who is VH-HJI?? Pacific 811 0437 USB wkg Honolulu/ARP WAZEE? 36 F310. (TO)

8879 GAF-056 1359 USB German AF, wkg Gander. (IB)

8894 Speedbird 074 0031 USB BD-EH wkg Algiers/ARP AMTES 28 F370 NSL 49. (TO)

8903 Goma Aero, ZAI 2049 USB Wkg Entebbe Aero. AirGabon-107 1837 USB Wkg Brazzaville. D2-EHD 2042 USB TransAfrique Wkg Brazzaville. ID-UPI AlItalia 2010 USB Wkg N`djamena. BRS-2402: Brazilian Air Force a/c 2008 USB Wkg Luanda. (IB) DLH574 0002 USB Ndjamena/ILDOR 0002 F330 FLU 0019 KOBLA. BAW54 0012 USB Brazza/ARP RULDO 0012 F350 NUROK 0031. SAA267 0013 USB Ndjamena/ARP TJN 0013 F370 MOTET 0030 KOGAN 0037 MIKMA 0109 BZ 0138.dep.EDDM1854 eta FAJS 0457. DLH569 0019 USB Ndjamena/ARP FLU 0047 F350. BAW56 0020 USB Brazza/ARP MPK 0017 F310 BOSSA 0034 RULDO.Req selcal chk/BPAM GBNLG B747. NGA9903 0018 USB Brazza/ARP MPK 0018 F410 RUYNI 0028 TUFAB 0049. To call 5493. SWR284 0022 USB Braz,Kinshasa/ARP BUT IKN LUB 0300 F330R370. BAW52 0024 USB Ndjamena,Niamey/ARP ENDOK 0043 F310 IKTAV 0056 DJa. BAW57 0027 USB Ndjamena/ARP BUNLU 0045 F330 FL next. AZW727 0030 USB Kinshasa/ARP UA611 via LUB 0250 F370 EDDF-Harare. AZA836 0033 USB Ndjamena/ARP BUNLU 0102 F330. KLM594 0033 USB Ndjamena,Niamey/DIR 0033 F350 ENDOK 0052 Req.F390. SAA233 0034 USB Brazza/ARP FIR Bdy 0025 F370 KOGAN 0054 AMPIL 0101 MIKMA 0126 BZ 0157,dep.EGLL 1920 eta FAJS 0520 Req. sel check AB-JL. SAB550 0035 USB Ndjamena/ARP ARBEG 0111 FAJS - EBBR. B747 (RD3)

8906 EGY-116: Egyptian Air Force 2034 USB Wkg N.York (IB)

8915 Tokyo Radio 0705 USB w/CANADIAN 6, others (GG)

8930 D-AGEE: 1724 USB Germania, wkg Stockholm R. (IB) Dinasty 366 1822 USB wkg Stockholm Radio, selcal GM-EF, eta Abu Dhabi 21:24 (AtlasAir). (MB3) Stockholm LDOC: (EU-LDOC) 0322 USB wkg Lufthansa 512. (RB)

8931 unid a/c 0706 USB mentioning "Miami Florida ", told to move to 5541 (GG)

8933 Cedar Rapids: LDOC, Ia (NA-CC-LDOC) 0405 USB wkg United 985 w/selcal ck AF-DG (747 N4718U), enrt Buenos Aires. (RB)

8957 Shannon Volmet 0037 USB fairly good w/aviation wx. (IRC)

8960 Portishead LDOC 0023 USB wkg flt has 17 will off loads tomorrow night at Cairo. (IRC)

9030 Unid: British male 2310 USB w/in-flight reports...said would call back at 0000 (TB)

9037 AIR (BRITANNIA?) 668 2256 USB working Air (Britannia?) operations...same British LDOC that I've heard here for many days. Calls sounded more like Air Bolivia but doubt that. Can any of our over-the-pond friends give a listen here? (TB)

10069 American 51 0926 USB to Berne for Selcal check (AH-MQ). (AO) EL-AJQ: Liberia World Airlines 1954 USB Wkg Berna R posn: on grnd at Algiers. A6-AUH: VIP Amiri Flight 0707 USB Wkg Berna R. SELCAL PQ-EF (IB) HB-IEE 0912 USB wkg Berna Radio, pp. to ??? passing Russia overflight. permit no. 109-172-96 & discussing flt plan Moscow-Nice. (MB3) KAL918 1804 USB Berne/ARP FK 1744 F364 ETA Seoul 0115 Fuel186.0 Req.selcal ck KL-EP HL7477 B747. HLF684 1807 USB Berne/Called several times overhead FARO no answer. RAM2282 1850 USB Berne/Called several times to no avail. (RD3)

10575 KLM 184 1017 USB wkg Stockholm LDOC, requesting a pp. (AO)

10790 Oasis EC-3961 0750 USB wkg Stockholm Radio, pp to Palma/Mallorca ops.

Evergreen 485 0807 USB wkg Stockholm Radio, pp to flt. control, got release to JFK. (MB3)
10805 Corse Air 959 0826 USB wkg Stockholm Radio, pp to ops. Paris, got CDG wx for 1205. Air France 2005 0827 USB wkg Stockholm Radio, pp to ops. Paris re. wx for arr. time, then changed to a 'chirp'-like scrambled voice mode for a short time. When they both were back to unscrambled mode, they confirmed each other that 'scrambled mode works o.k.' (I never heard scrambled comms on SDJ before). EC-GGO 0942 USB wkg Stockholm Radio, pp to Palma ops. (company:?). F-GGRH 1001 USB wkg Stockholm Radio, pp to ops., got new flt. plan Moscow-Malaga. Condor D-..PO 1021 USB wkg Stockholm Radio, pp to maintenance, one elevator inop. Austrian 154 0815 USB wkg Stockholm Radio, OE-LFO (Fokker-70) on the gnd. Duesseldorf, pp to maintenance. Condor D-..QO 1316 USB wkg Stockholm Radio, enrt FUE-DUS, crew duty overtime problem. (MB3)
10895 TXC 1436 1715 USB wkg Stockholm Radio, pp to company (in russian), TXC=Trans Avia Export Cargo Airlines. (MB3)
11273 LZ-BTT 1018 USB wkg Bourgaz Radio, mentioned 'Leipzig'. (destination?). (MB3)
11300 Cairo AirRadio 1625 USB clg Khartoum 5 times, no reply. (MB3)
11306 Envoy (?) 521 1245 USB clg fm Vienna. No reply. (AO) PGT 692 0956 USB Portishead (Pegasus Airlines, Turkey) selcal'ed for pp to Ops (very strange language, couldn't make out which, Turkish I bet). They operate a few 737's. Tourjet 632 0959 Portishead (G-YJBM) A320 Airtours) over Brindisi, pp Airtours ops: aircraft BM, dep .... 0925/32, eta Rimini 1105/10, req. flight plan Rimini -Cardiff and Rimini notams. (BH) G-??NM 1622 USB wkg Portishead Radio, pp to ops. requesting crew bus to Manchester. Midland G-..MN 1309 USB wkg Portishead Radio, pp to BMA ops, passing arr. time. G-..MM 1321 USB wkg Portishead Radio, enrt Faro-Exeter, eta 14:55. (MB3)
11309 AIR FRANCE 526 1430 USB ATC requests what time able FL 350. KLM 741 1430 USB 31N 50W FL 350. LTU 446 1435 USB ARP. AIR FRANCE 540 1442 USB KM-BD ARP. FRENCHLINE 313 1444 USB. LTU 432 1449 USB ARP. KLM 777 1451 USB ARP. CONDOR 192 1454 USB ARP 27N 60W. CROSSAIR 960 1551 USB ARP. BRITANNIA 171A 1551 USB JR-AC selcal ck. WEST INDIAN 901 1554 USB FG-BC ARP. (MM4)
11330 New York: (CAR-B MWARA) 1638 USB wkg Iberia 6401, posn RIGNY 1638 FL 330, NANCE next. (RB)
11345 Stockholm LDOC 1817 USB setting up company call for VV401. (AO) Cargolux 795 0810 USB wkg Stockholm Radio, posn IST @ 08:36, FL 310, to pass to company. United 953 0857 USB wkg Stockholm Radio w/selcal chk. AG-HR. PH-MCI 0903 USB wkg Stockholm Radio, radio check, no selcal. TWA 500 N272WA 0938 USB wkg Stockholm Radio, pos. rep. & selcal-chk. GH-AS (MD-11). All Nippon 205 1016 USB wkg Stockholm Radio, over KHT 1016, FL 11.600 m, eta CDG 1640. Air Europe 780 1252 USB wkg Stockholm Radio, selcal chk. CS-HP. N237GA 1321 USB wkg Stockholm Radio, selcal chk. (missed it). SE-DTA 1526 USB wkg Stockholm Radio, over Spain, eta FRA 17:20. (MB3)
11396 Qantas 391 0725 USB clg Bali, established contact in two minutes. (AW)
13205 A6-PFD: 1234 USB UAE Amiri Flight Clg Berne R. (IB)
13282 HONOLULU VOLMET 2157 USB airfield wx reports. (DW2)
TOKYO VOLMET 2210 USB w/airfield wx reports. (DW2)
13285 Beijing Volmet 0615 USB wx in EE by YL. (AW)
13333 BA Ops 1218 USB wkg Speedbird 2654 enrt from London to Tel Aviv. (AO)
13342 Unid cargo flt 0741 USB wkg Stockholm Radio, load msg. for company, selcall LR-EG. (MB3) VRG710 0926 USB Stockholm/Req. p/p to Varig Ops,Madrid/LEMD wx. (RD3)
13576 Condor D-..NH 1042 USB wkg Stockholm Radio, pp to company, overflying restrictions for W sector Portugal. (MB3)
13942 Oasis EC-3961 0951 USB wkg Stockholm Radio, pp. Condor D-CFTG 0856 USB wkg Stockholm Radio, pp to comp. passing arr. time. Condor D-..NM 0859 USB wkg Stockholm Radio, pp to company, request slot time improvement. (MB3)
17904 Honolulu 0010 USB wkg several flights, very busy. (AW)
17916 Stockholm LDOC 1146 USB trying a pp for Ariana 702. (AO)
17937 AMERICAN 222 2140 USB is Fair,Readable, & Clear w/Lima who is Weak, Readable w/static. Lima continued w/other a/c but the window slowly closed at 2205. I have heard Lima at roughly this time in the

past. The conditions don't last very long at this frequency and time. (GG)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

63.8 Unid: 2105 UNID 200bd/100 UNID FSK System, sync, cont, ACF. (MC)
65.8 Unid: 2102 UNID 200bd/100 UNID FSK System, sync, cont, ACF. (MC)
78.2 British Mil 1648 RTTY 100bd/70 crypto after 16 x ry and "vmctnjbh" (MC)
129.1 BMPT, Bpnn 2121 UNID 200bd/300 UNID 7 bit System, occasional bursts (MC)
129.5 SOA212: Warsaw Radio, Poland 2113 RTTY 50bd/130 AAXX WX (MC)
452 UNID: Meteo sta 2200 RTTY 100/425 w/synoptic wx compiled in St Denis, Harare, Jakarta & Melbourne (ML2)
476.8 Unid: 2124 UNID 100bd/75 UNID FSK System, sync, cont, ACF. (MC)
1806.5 Unid: 2117 QPSK 250bps DGPS info (MC)
1851 Unid: 2119 UNID 300bd/200 UNID FSK System, sync, cont, ACF, DGPS info (MC)
2423.5 SAB: Goteborg Radio 1845 ARQ clg mxso mqif. (PB)
2608.4 FUO: Toulon Naval, F 1900 RTTY 75/850 RY's & SG's, chg fm 2607.(JD2)
2685.2 Unid: 2127 UNID 300bd/200 UNID FSK System, sync, cont, ACF0, DGPS info (MC)
2716 SAB: Goteborg Radio 1928 ARQ clg feec tcvf msuq otfs ifqo. (PB)
2766 Unid 2034 ARQ-E 72/85 idling LKA or MO Bonn? normally on 2768.5 (PB)
2773.5 Unid 2044 ARQ?? 100/484 idling. (PB)
2780.8 GND4: Stonehaven Radio 2050 ARQ w/CW-marker. (PB)
2806 IGJ: Italian Navy Augusta 1957 RTTY 100/850 test tape IGJ41/42/43. (PB)
2840.7 MS-Mellum w/CG Cuxhaven 2101 ARQ pos. rep. (PB)
3215 UGC: St. Petersburg Radio 2117 ARQ w/CW-marker. (PB)
3270 NNN0?BE: Navy MARS HF Mailbox 0130 ARQ being worked for msg tfc by unid unit. (RB)
3436 MTI: Royal Navy Plymouth 2210 RTTY 75/340 CARB availability msg (PB)
3543 GKE1: 1920 ARQ w/CW marker. (CK) (Portishead Radio, UK -LOGS)
3667.2 UNID: 2050 ARQ-E 46.1/170 KAA to ?? (pcG)
3922.5 German Intel 0654 ARQ-E 85.7bd/170 crypto R W F N (MC)
4177 UWAK: M/V VALERIA BARSOVA 0308 ARQ w/tlx, ETA Houston, delayed due to wx. (WT)
4178.5 VTNT: M/V APJ SHALIN 0128 ARQ w/tlx, login 23721 VTNT. (WT)
4179.5 C6LF7: Mv Royal Reefer (ship 63164) 1907 ARQ ww Pch 26 eta St. Petersburg 160200. (BvR)
4211 ZLA: Awarua NZ 0730 ARQ Globe wireless stn Sitor mkr (AB3)
4211.5 KFS: San Francisco 0730 ARQ Sitor Mkr (AB3)
4213.5 NOJ: USCG Comsta Kodiak 0750 ARQ Sitor Mkr (AB3)
4214.5 CBV: Valparaiso Chile 0745 (AB3)
4215 WLO: Mobile Ala 0740 ARQ Sitor Mkr (AB3)
4218 LPD: Gen Pacheco Radio 0745 ARQ Sitor Mkr (AB3)
4219 UDB2: Kholmsk R RUS 1205 FEC w/tfc list (ML2)
4232 FUF: French Navy, Fort de France, Martinique 0642 RTTY 75/850 in 75/850 RY's, SG's, 1-0 count x 2 on ea line, ID. (RB)
FUF: FF Fort de France 0755 RTTY 75/850 RY test tape (AB3)
4235 VAI: Vancouver 0755 ARQ Sitor Mkr (AB3)
4245.9 MTI: Royal Navy, Plymouth 2004 VFT: 100bd/170 Baudot, crypto w/ 16xRY & "vmgtcnjbh" lead-in (MC)
4246.4 MTI: Royal Navy, Plymouth 2000 VFT: 75bd/70 NATO CRATT (MC)
4247.1 MTI: Royal Navy, Plymouth 1958 VFT: 75bd/400 Baudot, CARB (MC)
4251 PPJ: Juncao Brazil 0800 ARQ Sitor Mkr (AB3)
4263.5 ZLO: Waiouru NZ 0805 RTTY/CW RNZN encrypted RTTY and CW mkr (AB3)
4268.5 SAB23: GOETEBORG RADIO 1923 ARQ Maritex "erererer" string. Selcal CPTV. (DW)
4270.5 FUJ: FN, Noumea, New Caledonia 1725 RTTY 75/425 de fuj testing. (MS4)
4271 FUJ: FF Noumea 0805 RTTY 75/850 RY tst tape (AB3)
4300 KEJ: Honolulu 0820 FEC Globe Wireless traffic list (AB3)
4513.5 NNN0MRS: Navy MARS Gateway 2012 PACTOR sending MARSAGRAM's from various USMC units. (RB)

4765.7 RFFP: MoD Paris 2210 ARQ-M2 200/400 ch B w/daily NOTAM summary to RFFVAY cct FDX (ML2)
5060 ZRH: SAN Cape Town AFS 2120 RTTY 75/170 clg CXR; 2140 QSL to LOL (ML2)
5061 GYA: Royal Navy, London 0236 RTTY 75/740. Foxes & "Kilo". (PS)
5096.7 CFH: Halifax Military, NS, 0625 RTTY CAN 75/850 NAWS marker, w/QSX freqs 2822, 3394, 4155, 6148, 8315, 12380, 16576, 22185. (RB)
5100 AXM: Met. Melbourne-Darwin 1450 FAX 120/576 rsmc-warning of tropical disturbance. (MS4)
5116 A2A?: unid 1845 CW & RTTY (unk mode w/ACF=23). (JD2)
5128.8 Russian Mil 2152 81-81 81bd/1000 tfc (MC)
5141.5 N/A: Reunion Island 0430 RTTY 75/425 nx in FF, probably police. (MS4)
5146.2 Russian Mil 2133 MS5 12 tone vocoder (3300Hz pilot) (MC)
5164.5 FIT---: FF Pref stns, F 1200 ARQ var. s/c TOIL/BOCH. (pcG)
5180 BAA9: Beijing, CHN 1258 RTTY 50/850 meteo. (AB2)
5207 AAA3NAA: Army MARS, unid loc 0155 PACKET w/beacon. AAT3TFC: U.S. Army MARS, Ft Richie, Md 1922 PACKET wkg AAT3TVA, Army MARS Virginia Region 3. (RB)
5220.7 Unid: 0529 Unid 110/175 w/unid mode, sounds same as 7542.7. (RB)
5221.5 TYE: Cotonou AERO, BEN 1929 ARQ-M2 96/400 2ch UNA to Niamey (pcG)
5313 MFA Belgrade 0805 RTTY 75/400 msg headers readable, content encoded. (CK)
5315 BJZ27: Wuhan, CHN 1302 RTTY 75/425 meteo. (AB2)
5361.7 RFFXI: FR Forces Bangui, CAF 0228 ARQ-E 96/400 (presumed) idling.(RB)
5420 RF---: UNID FF forces F 1030 ARQ-E 72/400 cont. idle (pcG)
5731 YOG: Bucharest Meteo 0607 RTTY 50/400 meteo. (CK)
5798.5 NNN0MDM: Navy MARS HF Mailbox 2135 PACTOR 200/170 w/traffic being passed to NNN0GKE from NNN0CEI, USS Camden (AOE-4). (RB)
5845.7 'I93C': UNID MIL, location Europe 1010 F1B-121/330 QRK QRK to OM2V & online encrypted tfc, messages ending with %%%%%%%%%, mode used was unusual 12-bit frame RTTY system based on ITA-2, bit interleaved. Same mode has been heard last year on 4519 kHz with 161 Bd/330 Hz shift. (ANEE) (Ary sez it's Italian Navy -LOGS)
5872.5 RET???: Guardia Civil 0735 ARQ 100bd/400 Calling selcal "TZSL" (Algeciras) (MC)
6264 3EYB6: M/V KUDO 0412 ARQ ETA Tokyo, 3708N 12947W. login 42577 3EYB6. (WT)
6265.5 WHMK: SS Coastal Eagle Point 0740 ARQ w/AMVER, bound Houston to Port Everglades, Fl. (RB)
6272.5 JMQN: M/V AKASHI BRIDGE 0337 ARQ w/AMVER/FR, at Long Beach. (WT)
6283.5 KNCX: SS CHELSEA 0450 ARQ wkg VCT w/tlx re departed Tampa. login 10725 KNCX. (WT)
6286.5 UHQC: TKH LADOGA 108 1944 CW admin from Km Gorelov to UCW4. UANO: TKH BALTIYSKIY 107 1950 CW svc msg from R/Off Kazakov to UCW4. Vsl is ex UKJO. (HOOD)
6287 UIAD: ALTAY 2127 CW factory trawler (Murmansk Trawling Fleet) clg UDK2 - no joy. (HOOD)
6305.5 USJZ: PB Sergey Vasilisin 2328 RTTY 50/170 Ukrainian 'floating base' or Plavuchaya Baza (PB), w/RYRY/DE to UIW, then admin traffic to same from master, Kapitan Director (KMD) Krasnik. (RB)
6320.5 FFT: ST LYS RADIO 2000 FEC tfc list & gale warning (in FF). (HOOD)
6327 USU: Mariupol R. 1030 ARQ w/CW marker. (CK)
6327.5 WOM: AT&T Miami, Fl 1245 FEC wx-trop update on depressions. (RT2)
6341.5 YLQ: RIGA RADIO 1945 RTTY 50/170 urgent msg to YLAP: MV PAVELS STERNBERGS abt psn & fcast movement of tropical storm "CAESAR" at 12.5N 72.0W. (HOOD)
6355 UTW/USU: Mariupol Radio 1825 RTTY 50/170 followed by cw tfc list. (MS4)
6380 UCW4: ST PETERSBURG RADIO 1803 CW tfc to UAOA: TKH LADOGA 1 (ex EMXM) & USBE: TKH SORMOVSKIY 3003 -both sea-river cargo vsls of North West Shipping Co. (HOOD)
6383 UBF5: ST PETERSBURG RADIO 0705 CW nav wngs (PRIPS) in Russian, for Baltic Sea. (HOOD)
6395 RTQGDBCY: Turkish Navy Izmir 0543 RTTY 75/850 test msg for T12A. (CK)
6462 FUM: FN Papeete, Tahiti 1240 RTTY 75/850 1 stopbit w/ry's de fum vvv. (RT2)
6898.7 RFFXIC: FF Bouar CAF 2310 ARQ-E 96/400 w/svce msg to RFFXI no cct id used. (ML2)

6901.7 RFTJ: French Forces, Dakar, SEN 0405 ARQ-E3 192/425 idling. (RB)
6918.5 Unid MARS 1233 ARQ w/MARS Messages. (TK)
6924 OMV51: Praha(?) 0955 RTTY 500 RYRYRY OMV 51, OMV51 could also be callsign of other party. (ANEE)
6929 UNID: 1130 ARQ-E 192/170 cont. idle (pcG)
6936.7 RFLI: French Forces, Fort de France 0624 ARQ-E3 192/400 w/controle de voie on c.i. LIJ. (RB)
6976 RFFHCA: Ajaccio Corse, F 1135 ARQ-E 192/170 EHQ to Marseille. (pcG)
6984 SNN299: Warsaw DIPLO, POL 1500 POL-ARQ 100/200 idle. (pcG)
6985 BSB29: Lanzhou, CHN 1317 RTTY 75/425 meteo. (AB2)
7305 Tokyo Meteo 1450 FAX 120/576 w/chart (msl analysis). (TD2)
7309.7 RFHJ: FF Papeete OCE 1215 ARQ-E3 100/400 w/return of C de V to RFHI on cct HJI (ML2)
7321.5 FDY: FAF Orleans, F 1230 RTTY 50/400 le brick/ry test. (pcG)
7350 BAF44: Beijing, CHN 1408 RTTY 50/850 meteo. (AB2)
7395.7 UNID station central Europe (F?/D?) 1400 F1B-108.86/170 FEC-system w/large spread, daily broadcast 32/96 bit correlation, 8 bit characters to 1410. (ANEE)
7407.7 FDY: FAF Orleans, F 1223 RTTY 50/400 le brick/ry test. (pcG)
7456.7 RFTJ: 0729 ARQ-E3 192 Unid idle. (BvR)
7533 Darwin Meteo 1430 FAX 120/576 w/chart (msl analysis). (TD2)
7542.7 Unid: 2338 ARQ-E3 192/425 w/ZNR, control de voie, but missed circuit & callsign. (RB)
7575 Unid: 0329 Unid 110/175 unid mode. (RB)
7579 Unid: 0339 Unid 110/175 unid mode. (RB)
7582 USN Diego Garcia 1445 FAX 120/576 w/chart (surface pressure "product not available"). (TD2)
7595 AOK: USN Rota, Spain UTC? FAX 120/576 weak. 2528.5, 4623, & 5864 seem to be QRT. (LC)
7606.7 RFTJ: FF Dakar, SEN 0740 ARQ-E3 192 controle de voie. (BvR)
RFFA: MOD Paris 1207 ARQ-E3 100/425 idle (EW) RFHI: FF 1436 ARQ-E3 100 idle. (TK)
7641.7 RFLI: French Forces, Fort de France, Martinique 0423 ARQ-E3 192/425 w/Controle de Voie, circuit id garbled. (RB)
7658 YZI223: Tanjug, Belgrade 2211 RTTY 50/425 w/EE nx. (RB)
7663.5 FDY: Orleans, France 0100 RTTY 50/340 "Test de FDY - and Voyez le brick .....". The interesting thing is that they are // on 7671.5 & you can switch between the two frequencies without missing a beat or a baud! (ES)
7677.9 Unid 1141 RTTY 50/850 idled for a long time no traffic sent.still going 1204 (EW)
7688.3 Unid 1147 unid 200/425 unknown system (EW)
7717 AFTN (Aeronautical Fixed Telecommunications Network) Thrane & Thrane said to be the link between Shanwick Oceanic Control in the UK and Reykjavik, Iceland, operating as a back-up for the SATCOM-link. (RB3)
7754.7 Unid: 0220 ARQ-M2 200/400 idling both channels. (RB)
7755.2 RFQP: French Forces, Djibouti 2356 ARQ-M2 200/342 w/Controle de Voie on Ch.B. (RB) RFQP: FF Jibuti 0040 ARQ-M2 200/354 controle de voie. (RT2)
7761 Unid 1144 200/425 unknown system (EW)
7772.7 Unid 0130 ARQ-M2 96/280 It's been idling for quite a while. (ES)
7783.5 Unid 0230 RTTY 75/170 wx, knhc forecast for tropical storm Dolly. (AP)
7784 NRR: Roosevelt Roads, Puerto Rico 1143 RTTY 75/850 wx reports (EW) (it should be noted this sta has not been confirmed as NRR, in fact it might be NAS Jacksonville, Fl, & has a diff loc than 7870, sev WUN'ers are working on this -LOGS)
7828 POL-MIL Warszawa, POL 1642 RTTY 50/500, 5FGs to unlocated station. (ANEE)
7870 NRR: Roosevelt Roads, Puerto Rico 1133 fax 120/576 wx maps (EW) (possible location, not confirmed -LOGS)
7896.7 RFLI: Fort de France Martinique 1131 ARQ-E3 96/425 idle (EW)
7909.7 Ganfuda Oil Team, Libya 1849 ARQ MSGs from camp to Tripoli base (MC) Ganfuda Oil Team, Tripoli 2035 ARQ Project costs MSG ends "===ends=== rgds stuart" (MC)
7910.5 British Mil 1951 Piccolo-12, crypto (MC)
7911 Unid 1127 unknown system sounds like hc-arq and packet but isn't either. (EW)

7925 RPFN: Portuguese Navy, Munsanto?/Lisbon?, POR 0130 RTTY 75/850 w/RY's, SG's, Foxes, & 1-0 count to PWX (PWX DE RPFN). (RB)
7934 SPP: Polish Embassy, Vienna 0747 POL-ARQ 100bd/250 Claris MSGs to MFA marked "m:wieden" (MC)
7939.7 Unid 1115 unid 200/425 unknown system (EW)
7946 RFVI: FF LE PORT 2125 ARQ-E 96/400 4RC. Betas. Weak sync (DW) RFVI: Le Port Radio Reunion 1113 ARQ-E 96/425 poor signal idle. (EW)
7953 Unid 1107 ARQ idled for some time and then off. no traffic. (EW)
7960 MKD: RAF AKROTIRI 2229 VFT normally 8 channel DCN vft on USB of which 7 channels active but idle (DW)
7968 Unid 1104 unk 81 unknown system (EW) (most likely Russian Military in 81-81 -LOGS)
7971.7 FF ? LOC 2136 ARQ-E 96/400 8RC. Betas. Copy to disc till 0516z - no tfc (DW). 2234 ARQ/E//96/E/400 8RC. Betas (DW) Unid 0203 ARQ-E 96/400 Idling, a new French military frequency?? Still idling at 0257. (ES)
7973 Unid 1102 unk 81 unknown system (EW) (most likely Russian Military in 81-81 -LOGS)
7975 SPW: Warsaw R, POL 1818 FEC Pol nx. (pcG)
7980 NSY: USAF Sigonella, Sicily 0745 ISB VFT on USB; wkg AJO. (JD2)
7983.7 RFTJ: FF DAKAR 2247 ARQ-E3 48/400 8RC. Tfc in 5LG's to RFTJF/Port Bouet from RFFTD (DW) RFTJ: French Forces, Dakar, SEN 0220 ARQ-E3 48/425 idling, at 0258 w/Controle de Voie on circuit TJF. (RB)
7987 Unid 1058 unk 75 unknown system (EW)
8001.7 RFHJ: Papeete radio 1057 ARQ-E 96/425 idle (EW) RFHJ: French Forces, Papeete, Tahiti 0532 ARQ-E 96/400 w/Controle de Voie on C.I. HJL. (RB)
8010.7 7RQ20: Algerian MFA, Algiers 2211 Coquelet-8 13.3bd (also some 26.7bd tfc), "vci off alger", NX in FF to Peking (MC)
8050.3 RFQP: French Forces,Djibouti 0003 ARQ-M2 200/425 w/Controle de Voie ch.B, ZID PQC014, ZIC QPC020. (RB) RFQP: FF Jibuti 0130 ARQ-M2 200/378 idle. (RT2)
8063 RFFAB: French Army, Paris 0417 ARQ-M2 200/250. 5 lgs. (PS) RFFA: MOD Paris 0140 ARQ-M2 200/375 idle. (RT2)
8090.2 Russian Mil 2055 MS5 12 tone vocoder (3300Hz pilot) (MC)
8092 AJO: USAF Incirlik, TUR 1615 ISB VFT on USB; wkg NSY on 8127.5. (JD2)
8105 SWA28: Greek meteo 0845 FAX w/FAX tests. This is coming from the same QTH as 5637 USB (SWA), and not from coastal stn. Athens R./SVA. The station is included in the "old stations list" of Klingenfuss CD-ROM as an RTTY station of the AFTN with c/s SWA-28. (CK) ATHENS RADIO 0846 FAX//120/576/N/800 Test chart w/text re test until "end of August 96", //8530 (DW) RFFX: MOD Paris, F 0458 ARQ-E 72/425 w/controle de voie. (RB)
8108.2 RFQP: FF Jibuti 0157 ARQ-M2 200/387 idle. (RT2)
8124.7 SVA: Athens radio 0808 FEC 100/425 seems to be traffic list ends with de sva sva sva off at 0812. (EW)
8127.5 NSY: USAF Sigonella, Sicily 1615 ISB VFT on USB; wkg AJO on 8092. (JD2)
8151 IGJ44: Augusta Italy 0600 RTTY 100/850 Italian Navy test msg (AB3) IGJ44: Italian Navy, Augusta, I 1157 RTTY 100/850 "igj44/igj42/igj43" (pcg) IGJ44: Italian Navy, Augusta 0536 RTTY 100/850 test tape. (RB) NNN0MDW: Navy MARS HF Mailbox 2219 PACTOR 200/170 w/traffic being passed. At 0154 w/tfc from NNN0CTJ, USS Tarawa (LHA-1); at 0207 w/tfc from NNN0MSD, MCRD San Diego. (RB)
8151.5 Unid: 0542 PACTOR 200/340 very weak under IGJ44 on 8151, Code 3 wouldn't sync up, prob USN MAR's. (RB)
8176 FZR: St. Denis Met. Reunion Island 0730 FAX 120/576 Schedule (program de diffusion). (MS4)
8182.8 Unid 1223 RTTY 75/850 ry no id. at 1227 says anul zizi bk gaa nnnn then off. (EW)
8192 9MR: Malaysian navy 1220 RTTY 50/850 rmmj mrb mrb ry sg. (EW)
8227.8 Chinese Diplo 2057 4+4, idle (MC)
8248.4 UNID, 0051 ARQ msg re maintenance to be performed. Msg signed: Athina M-. (DW2) (Eastern Med Shipping Net -LOGS)
8314 Unid 1155 100/170 seems like vft group.same signal as 12385.441. (EW)
8330.2 RFVI: Le Port Reunion 0007 ARQ-E3 100/425 idle. (EW)
8341.7 RFHI: FF Noumea New Caledonia 0014 ARQ-E3 100/425 idle. (EW)
8359 UROS: TKH DNEPR 0645 RTTY 50/170 (after CW) admin to USO5. (HOOD)
8377 URMA: Skvortsov-Stepanov 0152 ARQ req wx info from Portishead Radio.

(AB2) 9HNG3: M/V KONAVLE 0035 ARQ w/tlx, S/C 13647. (WT)
8377.5 WTST: Lihue 1753 ARQ vsl going on a 30-day voyage to Asia. (AB2) WJLP: SS Solar 0152 ARQ 31,800 DWT U.S.-flagged tanker, w/SVC service msg to Globe, selcall 10708. (RB) WBN4113 BULWARK 0235 ARQ wkg KFS w/QRG RPT. LOGIN 72345 WBN4113. 3FOU3: LONG BEACH?? 0110 ARQ W/BBXX. KNLO: SS MANUKAI 0226 ARQ HONOLULU TO SEATTLE. LOGIN 10914 KNLO. (WT)
8378.5 LACU2: VIVA 1433 ARQ msg to Narvik via Rogaland Radio. login 34282 LACU2. (HOOD)
8379 VVJS: Devprayag 1233 ARQ w/ETA Vizag. (AB2) SXRY: M/V ANGELIC FAITH 2355 ARQ RX ONLY, LOGIN 16728 SXRY. (WT)
8379.5 JLPY: Taisei Maru 1136 ARQ Jasrep msg. (AB2)
8380.5 YEVX: Dobon Solo 1249 ARQ unid lang. C6CH3: Smit Lloyd III 1305 ARQ tfc. OVYC2: Svenborg Gate 1308 ARQ tfc. (AB2)
8381 ELRU3: M/V Seaboard Universe 0357 ARQ 9,200 DWT Liberian-flagged Ro/Ro cargo ship, w/AMVER/SP, vsl bound Miami to Puerto Cortes, login 24854 ELRU3. (RB) SZMW: M/V PARASKEVI M. Y. 0215 ARQ TLX ETA LONG BEACH. 16715 PMY SZMW. (WT)
8381.5 LZDJ: M/V TETEVAN 1234 ARQ selcalling VFXV for Varna Radio and login as 05957 LZDJ. (HOOD) YLAP: MK Pavel Sternbergs 2045 ARQ w/crew TG's (RB)
8382 ESAQ: TKH PAKRI 1823 ARQ Selcalling PCYV for Tallinn Radio & receiving tfc in EE from ESA on 8422. (HOOD)
8382.5 ZCBD9: Chiquita Frances 1213 ARQ tfc. (AB2) ELAJ6: M/V Rosina Topic 0639 ARQ 37,244 DWT bulk carrier, w/ETA Balboa, login "ELAJ6 ROSTOP". (RB) UBPE: VALENTIN ZOLOTAREV 0345 ARQ W/TLX ETA LONG BEACH, 55828 UBPE. BROR: M/V BA DA LING 0509 ARQ RX ONLY, LOGIN 20165 BROR. UWTB: M/V AKADEMIK GUBER 0154 ARQ W/TG'S LOGIN 67809 UWTB. SQFA: M/T REKIN 0335 ARQ W/TLX IN PP LOGIN 43185 REKIN. UYZX: M/V VIKTOR LYAGIN 0330 ARQ W/TLX TO SUNAR SEATTLE. LOGIN 52881 UYZX. (WT)
8383 SYOC: M/V ANGELIC SPIRIT 0044 ARQ WKG SVT ATHENS. LOGIN 16701 SYOC. (WT)
8383.1 EUJV: Rybak Kamchatky 1130 RTTY 50/170 crew TG's after RY's/DE to UFZ. (AB2)
8385.5 WBN2073: Rig Engineer 1330 ARQ monthly report. (AB2) SQDS: M/V GARWOLIN 0752 ARQ crew list (all Polish) and ETA for Ashdod from Capt. Kwiece. login 43078 SQDS. (HOOD) KPSB: SS Coronado 1705 ARQ U.S. flagged 40,995 tanker (Keystone) w/QRG tlx via Globe. (RB) WBN2073: M/V RIG ENGINEER 0310 ARQ GLOBEFAX TO CROWLEY DISPATCH. LOGIN 12073 WBN2073. KIOH: SS GOLDEN GATE 0334 ARQ WKG WNU W/TEST MSG VIA GLOBEMAIL. LOGIN 90870 KIOH. (WT)
8386 KPJC: Cornucopia 1159 ARQ obs msg. (AB2) UNID: UNID 0247 ARQ W/JASREP GARBLED BUT LOGIN 41947 BROK. (WT) UNID 0416 ARQ clg coastal ID number: 2920 (QSKV) Gdynia Radio. (DW2)
8386.5 YCTG: Sonbai 1313 ARQ w/ETA Irago, selcall 22902. (AB2)
8387 SNVY: Langusta 0308 ARQ tfc in PP, selcall 43261. OUUF2: Knud Lauritzen 1236 ARQ tfc in Danish. (AB2) JMQW: M/V AKASHI BRIDGE 0045 ARQ WKG KPH W/AMVER/SP OAKLAND TO TOKYO. SQFA: M/T REKIN 0330 ARQ TLX W/CREW LIST. LOGIN 43185 REKIN. (WT)
8387.5 SQGX: M/T OTOL 0522 ARQ FISHING REPORTS FOR LANGUSTA, OTOL, TUNEK & WLOCZNIK. SQGD: F/V WLOCZNIK 0340 ARQ WKG SPA, GYDNIA W/MSG IN PP. 43271 SQGD. (WT)
8388.5 N/A: MV ADELIA 0551 ARQ sending maintenance report on pistons, heads, injectors, turbocharger's & mooring lines. (DW2)
8389 N/A: MV SKAGEN 0653 ARQ eta for Spurn Pilot from Capt. Drake. login 26298 SKAGER. (HOOD)
8389.5 C6LV: M/V NORCAPE 0030 ARQ W/AMVER/PR, ETA BRAYTON, LOGIN 26628 NORCAP. WTEH: NOAAS KAIMIMOANA 0346 ARQ W/MOVREP. (WT)
8390 TCXS: Marine Express 0354 ARQ tlx to Fides, Istanbul, selcall 29105. 9HQT2: Searider 1535 ARQ w/ETA Kawasaki, selcall 63332. (AB2) 3EKA9: MT ARTESIA 0220 ARQ SAILED ALTAMIRA, ETA CATZACOALCOS. 29045 ARTESI. ENZZ: MT GENERAL MERKVILADZE 0254 ARQ W/TLX. LOGIN 55310 ENZZ. (WT)
8390.5 C6KY9: Marinor 1258 ARQ re crew member who 'deserted' while vsl was docked in Savannah. (AB2)
8391.5 ESOZ: TKH Kuivastu 0133 USB 7,480 DWT Estonian-flagged dry cargo ship w/admin tlx to radio Tallinn from master KM Koppel. (RB)
8392.5 ELSO6: TK Temryuk 0243 RTTY 50/170 39,990 DWT Novoship tanker (flying Liberian flag) w/admin msgs from master KM Butakov. 9HQO3: TK

Novomir-3 0305 ARQ 22,580 DWT tanker, w/crew TG's to Novorossiysk radio. P3OF4: TK Ostankino 0327 ARQ 47,100 DWT tanker, w/crew TG's to same. N/A: TK Vysotski 0340 ARQ Novoship tanker, w/admin TG from master, KM Simenov. USQS: TK Burgas 0400 ARQ Ukrainian-flagged 54,589 DWT tanker w/DISP-1 tfc to Novorossiysk Radio from master, KM Zhivago. (RB)

8392.8 P3XS3: MV MEXICANA 2206 ARQ w/end of supply message. (DW2)

8393 BPDM: Ning An 15 1311 ARQ tlx re up anchor & bound for Gladstone. BPJC: Chang Zhi 1318 ARQ tfc via XSG. BPLI: Cang Zhou 1424 ARQ tfc via XSG. (AB2) YLAW: TK PABLO NERUDA 1756 ARQ admin to Riga after selcalling CVCX. login 69626 YLAW. (HOOD)

8394 VRIY: BT Nestor 0400 ARQ 44,900 DWR tanker, w/tlx re at Emmastad, Curaco, loading. (RB)

8395 WGXN: M/V STELLA LYKES 0304 ARQ W/AMVER/PR, ARR NORFOLK. (EX-PRESIDENT GARFIELD?). (WT)

8396 LYAF: TKH MARIJAMPOLE 0749 RTTY 50/170 crew TGs to LYK. LYDD: ML SVENTOJI 0721 RTTY 50/170 admin from Km Komolenkov to RADIJAS KLAIPEDA (LYK). (HOOD) LYBL: Kupiskis 0413 ARQ Lithuanian-flagged 3,950 DWT bulk carrier, w/admin msg. (RB)

8397 UAAP: TKH AKADEMIK GLUSHKO 1806 ARQ BBXX from 56.6N 18.4E to UCE. (HOOD) DVRD: M/V GENERAL TIRONA 0348 ARQ W/TLX LOGIN 26420 DVRD. (WT)

8398 EMKL: MV SKALISTYJ BEREG 0604 RTTY 50/425 w/crew TG's. (DW2)

8398.5 UGSZ: TK Komandarm Fedko 0125 RTTY 50/170 Russian 18,495 DWT tanker, w/test msg to Batumi w/"TEST" x 3, & NNNN. (RB)

8399.5 ENKI: TKH NIKOLAY CHERNYEVSKIY 0648 RTTY 50/170 admin from Km Iskrov to UUI. UYFX: TKH VLADIMIR VASLYAEV admin to UUI. UYUX: TKH DMITRIY POLUYAN 0636 RTTY 50/170 admin from Km Akimov to BLASCO via UUI. ENYF: TKH DMITRIY SHOSTAKOVICH 0708 RTTY 50/170 crew TGs to UUI. (HOOD) USJZ: PB Sergey Vasilisin 2024 RTTY 50/170 Ukrainian 'floating base' or Plavuchaya Baza (PB), w/admin TG from Kapitan Director (KMD) Krasnik. (RB)

8401.5 UGRF: TKH BIRYUZA 0716 RTTY 50/170 RYs to UUI - no joy. (HOOD) UIAN: MKRTM Dusetos 2109 RTTY 50/170 w/crew TG's using hull#/ID MKRTM 0618. UEMP: RTMS Malta 2210 RTTY 50/170 Russian Rybolovnyy Trauler Morilzhnyy (RTMS, or super fishing trawler/super freezer vsl), w/RYRY/DE to UIW, K-grad, & w/admin TG's from master KMD Vilkov. UTVT: TKH Taras Shevchenko 2222 RTTY 50/170 6,000 DWT, cargo/passenger vsl, w/RYRY & crew TG's (ODS/UMF). (RB)

8401.7 ESJS: Tavrida 0427 RTTY 50/170 crew TG's. (AB2)

8402.5 UWOC: TKH KAPITAN MODEST IVANOV 1825 RTTY 50/170 RYs to UUI - no joy, so QSY to 12561.5 for crew TGs. UWWK: PR SEREBRYANSK 0701 RTTY 50/170 crew TGs to UIW. UWHG: TSM ORLIK 0714 RTTY 50/170 crew TGs to UIW. (HOOD) UZNV: RKTS Konstrukor Koliv 2059 RTTY 50/170 Ukrainian fishing trawler/freezer, w/admin TG's from master KM Krech, also sends admin tfc for UWBS, RKTS Nikolay Filchev, from master KM Kazurtiv. LYES: TR Suomiyos Ilanka 2235 RTTY 50/170 RYRY/DE to LYL, Klaipeda Radio, Lithuania, & into posn report (3226N/7334W) from master KPT Artiomov to Transflot Klaipeda, vsl is Lithuanian-flagged 11,781 DWT reefer/fish carrier. UGXQ: SRTM 1500 Let Kieva 2249 RTTY 50/170 Russian medium fishing trawler, freezer, w/RYRY/DE to UIW, & w/crew TG's to same using hull#/ID SRTM 8086. UGNQ: TSM Ocher 2320 RTTY 50/170 w/RYRY/DE to UIW, sends 1 crew TG using hull#/ID STM 8338 (KLD/MRH), was designated TSM, both TSM & STM translate to a medium freezer trawler type. UEVB: BATM Zaostrove 2325 RTTY 50/170 Russian large autonomous long range/endurance trawler/freezer, w/crew TG's (KLD/VTF). (RB) UB4: UNID 0110 RTTY 50/170 "UIW" (KALININGRAD) "DE UB4" (??). REPEATED SEVERAL TIMES. (WT) (this is UBCH, the 4 was untransliterated, UBCH is unid at this time -LOGS)

8403 OUZG2: unid 1523 ARQ tfc in Danish. (AB2) UQQT: RTMKS Pavel Kutakhov 2106 RTTY 50/170 Ukrainian stern ramped super fishing trawler/super freezer w/admin TG's using hull#/ID MA-1819 (MRM/KRH) to Murmansk Tralflot from master KMD Gutskalov. (RB)

8403.5 USGW: TKH ISMAILIYA 1743 RTTY 50/170 admin from Km Pogorelskiy to UUI. (vsl is ex UNDB). (HOOD)

8404 UWLS: TKH Ruzhany 0212 RTTY 50/170 Ukrainian 5,657 DWT dry cargo vsl, w/tfc to Izmail radio, UKR. N/A: TKH Karina 2230 RTTY 50/170, w/admin TG to DPR Izmail from master KM Krechtevra, no prior info for this vsl. (RB)

8404.5 ESMS: RTMS MERISKI 1827 RTTY 50/170 crew TGs to Tallinn via UIW using "RTMS 7583 MERISKI". (HOOD) EOSJ: TR Granitnyy Bereg 0016 RTTY 50/170 Ukrainian 11,746 DWT reefer, w/RYRY/DE to UIW, then admin tfc from master KM Estel. (RB)
8405 UYHH: M/S VOLGA 0721 RTTY 50/170 admin from Km Skopin to USO5. A Danube river cruiser passing eta (for Passau) to Regensburg, Vienna & Budapest with details of 87 tourists on board. (HOOD)
8405.5 UTNI: TR Frits Gekkert 2214 RTTY 50/170 Ukrainian reefer w/crew TG's (KLD/RTF). (RB)
8405.7 UFJI: NIS Akademik Mystislav Keldy 0231 RTTY 50/170 w/RYRY/DE to UIW. (RB)
8406 SQAM: M/V KOPALNIA PIASECZNO 0818 ARQ telex to POLSTEAM w/eta for Swinoujscie. (HOOD)
8407.5 UEPZ: RTMS Nikolay Afanasev 0215 RTTY 50/170 Russian super fishing trawler/super freezer, w/crew TG's to Kaliningrad Radio, ex-LYEW. EOXT: SRTM Goryn 0230 RTTY 50/170 Ukrainian-flagged medium fishing trawler/freezer, w/crew TG's. (RB)
8411 LYBN: ML Kapitonas Kaminskas 2207 RTTY 50/170 w/RYRY/DE to LYK, & into crew TG's. (RB)
8412 LYFI: RTMS LAUKUVA 0703 RTTY 50/170 admin to LYL from Km Poplavskiy. (HOOD)
8413 UQRT: TKH Ilya Ulyanov 2331 ARQ Ukrainian-flagged 13,150 DWT dry cargo vsl (Baltic Shipping Co) w/DISP-1 report to St Petersburg Radio, from master KM Perov. (RB)
8414.5 GMDSS CHANNEL 0728 GMDSS 100/170 Number of packets (DW).
8417 GKE: Portishead Radio 0710 FEC mgs & tfc list. (BvR)
8417 ZLA: Awanui radio 1032 ARQ w/CW station marker (EW)
8421 OXZ: Lyngby Radio 1930 FEC tfc lst. (BvR)
8424 SVU4: Athens Radio 0605 FEC News Greek. (AB3)
8425 FFT43: St Lys, F 1830 ARQ ww unid. (BvR)
8432.5 UFN: Novorossiysk Radio 1905 ARQ tfc to UDGA. (BvR)
8503.9 NMG: USCG CommSta New Orleans 1510 FAX 120/576 hffax. (RT2)
8510.7 Unid 0148 ARQ-E 96/850 Idling, might be Paris but they are normally on 8509.0. (ES)
8520 Odessa R. 1428 RTTY 50/170 msgs to ships. (CK)
8530 SVJ4: ATHENS RADIO 0851 FAX 120/576/800 //8105, met charts for E Med (DW).
8538 Dakar, SEN 0140 RTTY 75/850 Voyez le brick, etc. (ES)
8538.4 6WW: FN Dakar, SEN 1940 RTTY 75/832 w/RY/LE BRICK/SIX WHISKY WHISKY ETC. (RH2)
8650 SPB43: Szczecin R, POL 1400 FEC qtc list. (pcG)
8825 Unid: 81bd/250 2051 81-81, tfc R W F N (MC)
8876.1 N Korean MFA, Pyongyang 1957 RTTY 50bd/1000 5LGs (MC)
9044.5 AOK: USN Rota FAX facsimile service. (MR)
9049.2 AOK: USN Rota, Spain UTC? FAX 120/576 v.good. (LC)
9050 NSY: USN Catania, I 1208 FAX wefax. (CK)
9050.2 AOK?: USN Rota, Spain 2330 FAX 120/576 numerous European charts. (JD2) AOK: USN Rota 2050 FAX v.good. (RRR)
9054 French Diplo 2140 ARQ6-90 200bd/500 in IRS mode (MC)
9076.7 RFFA: MoD Paris, F 2318 ARQ-E3 192/425 w/control de voie. (RB) 'PARIS', MOD Paris 0305 ARQ-E3 192/340 "Controle De Voie". Circuit IAH. (PS)
9079.9 RFQP: FF Jibouti, DJI 1930 ARQ-E3 100/369 idling. (RH2)
9090 NPG: USN San Francisco 1130 fax 120/576 wx map (EW)
9097.9 CNM: MAP News, Rabat 1713 RTTY 50bd/400 NX in FF (MC)
9110 NMF: USCG Boston, Ma USA 2215 FAX 120/576 "National Met Center Marine Forecast Branch" (//12750). (JD2)
9117.7 PCW1: Dutch MFA, Den Haag 1154 CW, "pcw1" marker and SITOR phasing bursts (MC)
9119 UNID burst station 1515 F1B-300.6/190 Hz 10 bit per char, 1200 bit per burst. similar to DGPS broadcasts. (ANEE)
9126.7 RFTJD: FF, Libreville, GAB 2134 ARQ-E3 192/425 idling. (RB) Egyptian Embassy, Bonn 1848 ARQ ATU-80 MSGs to MFA Cairo marked "jg y---lg" (MC)
9130 MGJ: RN FASLANE 2249 RTTY 75/850 CARB Handling ships on channels 06c & 12b. (DW)
9135 MKD: RAF AKROTIRI 2254 VFT on USB. 7 of 8 possible channels all idle. (DW)

9147 GXQ: RN LONDON 2223 VFT on USB. 8 channels (DW).
9147.5 GXQ: RN LONDON 2224 RTTY 50/340 9147.595. Chan 1 in vft. Idle on mark. (DW)
9147.7 GXQ: RN LONDON 2226 75/340 9147.765. Chan 2 in vft. ACF7. On line encrypted. (DW)
9148.2 GXQ: RN LONDON 2228 9148.275. Chan 3 in vft. Idle on mark. (DW)
9148.4 GXQ: RN LONDON 2230 75/340 9148.445. Chan 4 in vft. ACF7. On line encrypted. (DW)
9148.9 GXQ: RN LONDON 2232 ARQ-M2 96/340 9148.955. Chan 5 in VFT. Poor sync. At 2239 9149.125. Chan 6 in vft. 96bd 340hz shift & ACF80. unid mode with 8 bit characters. (DW)
9149.6 GXQ: RN LONDON 2245 ARQ-M2 96/340 9149.655. Chan 7 in vft. 4rc. Two channel TDM. Cha:A met tfc. Chan B: alphas (DW)
9149.8 GXQ: RN LONDON 2250 9149.805. Chan 8 in vft. Idle on space (DW).
9154 D4B: SAL AIR, CAPE VERDE 0330 RTTY 50/850 w/RY'S & calltape. (DW2)
D4B: Sal Air, Cape Verde Is 0050 RTTY 50/850 RYRY/DE. (RB)
9190.2 Russian Mil 1912 MS5 12 tone vocoder (3300Hz pilot) (MC)
9206.5 UNID station, central Europe (F?/D?) 1120 unid F1B-108.86/170 FEC-system w/large spread, 32/96 bit correlation, 8 bit chars. (ANEE)
9266 OMS: MFA Bratislava 0918 RTTY 100/400 diplo nx. (PB)
Russian Mil 1714 UNID 75bd/200 UNID FSK System (MC)
9278 OLZ88: MFA Prague 0937 RTTY 100/379 diplo nx. (PB)
9284 NATO Mil 2146 Link-11 (MC)
9291 POL-EMB Helsinki, FNL 1140 POL-ARQ 100 5-CRC/250, 5FGs to Warszawa. (ANEE)
9312 UNID Station, G-NY?, G F1B-300.12 Bd/850, 448 bit correlation. (ANEE)
9319.2 Russian Mil 2126 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
9331.7 Egyptian MFA, Cairo 2133 ARQ Calling Havana selcal "IPTX" QSX 11023.7kHz (MC)
9348.5 French Diplo 2158 TT2300b 100bd idle (MC)
9360 DFJ36L1: PIAB Bonn, Germany 1516 FEC-A 96 Nx in German. (TK)
9371 Unid 1124 110/170 encrypted text. (EW)
9380 RFGW: MFA Paris 0950 FEC-A 192/398 rr F9S de RFGW fm:armees paris to:rfgw/milfrance prague & zen/milfrance washington (PB)
9797 YOJ27: ROMPRES Bucharest 1013 RTTY 50/502 nx in FF. (PB)
9940.6 Unid 1320 81-81 40/535 unable to decode. (RT2)
9944 KODECO KE5 platform approx 7N113E INS 0030 RTTY 50/850 w/status rpt to Gresik, INS. (ML2)
10036.7 Egyptian MFA, Cairo 1939 ARQ ATU-80 to various embassies (MC)
10126.4 7RQ20: Algerian MFA, Algiers 1557 Coquelet-8 26.7bd MSGs in FF to Paris, Moscow, Warsaw, Bonn, Kiev (MC)
10160.5 YIL70: INA News, Baghdad 1345 RTTY 50bd/400 NX in EE (MC)
10160.9 Unid: 1509 PACTOR 200bd/200 MSG in FF mentioning "Bosnie" (MC)
10162.5 YIL71: INA Baghdad 1037 RTTY 50/393 nx in EE. (PB)
10177.5 'PROVENCE'. French Army, Paris(?) 0526 ARQ-E3 100/405 "Controle De Voie". RFLI: French Army, Forte De France MRT 0255 ARQ-E3 100/405 w/"Controle De Voie". Circuit LFB. (PS)
10181.1 unid 2003 ARQ-E 200/303 5Lgs to 'RFFA', weak (PB)
10197.3 MKK: RAF Gibraltar 2135 VFT 50 baud 4 channels. RY's & Foxes. (PS) (MKK is RAF London not Gibraltar -LOGS)
10210 Unid: 1916 RS-ARQ 225.2bd/170 Packet mode, tfc ACF=10 (MC)
10213 CNM29: Rabat MAP, MRC 1236 RTTY 50/400 EE nx. (pcG)
10222 SOUD Station 1843 RTTY 75bd/500 5LGs on link ID 40034 (MC)
10226.7 PKD: Surabaya R INS 0840 ARQ w/maritime tfc to Jakarta (ML2)
10227 NATO Mil 1637 PSK 2400bps (MC)
10232 Russian Navy 2046 36-50 50bd/250 tfc (MC)
10245.2 Russian Mil 1803 MS5 12 tone vocoder (3300Hz pilot) tfc (MC)
10253.7 British Mil 1808 Piccolo-12, idle (on LSB) (MC)
10254 German Diplo 1603 RS-ARQ 240bd 8 tone (MC)
10296.5 French Diplo? 1809 TT2300b 100bd tfc (MC)
10314 SNN299: Warsaw DIPLO, POL 1240 POL-ARQ 100/200 Pol diplo msgs. (pcG)
SNN299: MFA Warsaw, Poland 2105 POL-ARQ 100 Message in Polish. (TK)
10317 MKD: Akrotiri, Cyprus 2115 PICCOLO-6 didn't say whom he was wkg.(JD2)
10317.5 MKD: Royal Air Force, Akrotiri 1945 VFT: 2ch of Piccolo-6, "de mkd pse to int zbz pal kkilo" (MC)
10317.9 MKD: Royal Air Force, Akrotiri 1946 VFT: 2ch of Piccolo-6, crypto. (MC)
10340.5 Unid: 1923 UNID 109.8bd/170 UNID FSK System, Reversals, lead-in,

crypto, revs (MC)
10350 Unid: 1648 UNID 200bd/1000 UNID FSK System, ACF=0, sync, cont (MC)
10364.3 Unid: 1918 ARQ-E 48/841 good tune! (RH2)
10381.6 Unid: 1724 UNID 250bd/170 UNID ARQ System, ACF=75, PRF=300ms (MC)
10392.5 UNID: 1303 RTTY 50/400 Dutch?? nx/msgs. (pcG)
10401 Unid: 1753 81-81 81bd/500 tfc (MC)
10416.5 French Diplo? 2014 TT2300b 100bd tfc (MC)
10438 Unid: 1518 81-81 81bd/200 tfc (MC)
10452.1 Unid: 2000 mode? 50/207 unable to decode. (RH2)
10470 GYU: Royal Navy, Gibraltar 1953 RTTY 75bd/850 "de gyu test 1234567890 ryryryry... int zbz" (MC)
10470.5 FDC: French Air Force, Metz 1909 CW, "vvv vvv vvv de fdc fdc fdc ar" marker (MC)
10493 V5G***: Romanian MFA, Bucharest 1159 ROU-FEC 164.5bd/400 (Bitmask=24), Diplomatic circulars (MC)
10470 GYU: RN Gibraltar 0830 RTTY 75/850 w/test tape & then to crypto (ML2)
10512 AQP: Pakistani Navy, Karachi 1656 CW, "vvv vvv vvv aqp2/4/5/6/8" marker (MC)
10521.7 RFLI: French Forces, Fort de France, Martinique 2331 ARQ-E3 192/345 w/Controle de voie on C.I. LIJ. (RB)
10534.2 Russian Mil 2048 MS5 12 tone vocoder (3300Hz pilot) (MC)
10542.2 AOK?: USN Rota, E 1530 FAX 120/576 numerous European charts. (JD2)
10551.3 GFL23: Bracknell Meteo, G 2339 RTTY 75/425 w/RYRY/DE & BBXX ship reports. (RB) GFL23: Bracknell Meteo, G 2005 RTTY 75/425 w/synop codes. (RH2)
10598.2 Russian Mil 1651 MS5 12 tone vocoder (3300Hz pilot), short tfc then idle (MC)
10622 MKD: Akrotiri, Cyprus 1525 PICCOLO-6 2-channels, didn't say whom he was wkg. (JD2)
10650 BJZ23: Beijing meteo 0003 RTTY 75/425 ry, wx reports. (EW)
10701.8 Chinese Diplo 1655 4+4 (MC)
10749.5 C37A: Israeli Intel, Jerusalem 1927 ARQ-E 288bd/300 crypto (MC)
10780 RFLI: French Army, Forte De France, MRT 2245 ARQ-E3 192/340 Hurricane Bertha warning message followed by nx from Martinique. (PS)
10794.2 Russian Mil 1728 MS5 12 tone vocoder (3300Hz pilot) (MC)
10798.3 RFLI: French Forces, Fort de France 1919 ARQ-E3 192/400 w/non-protege traffic re 'mariners vocation candidates' on C.I. IRT. (RB)
10803.7 Africa 1709 ARQ Shipping logistics MSGs in EE (MC)
10815.5 AAA6USA: Fort Sam Houston, Tx 1405 PACKET Central Army MARS gateway, wkg AAA0USA (Western Area gateway, Ft Lewis, WA), AAA3USA (Eastern Area gateway, Ft Meade, MD), w/tfc, poss Shares related. Note 1st "A" in c/s is dropped for packet protocall. (RB)
10861.2 Unid 1150 50/850 encrypted text (EW)
10865 VHC: RAN Belconnen AUS 0115 PICCOLO w/RY and svce msg to GFH (ML2)
10872 FDI8: French Air Force 1730 CW, "vvv vvv vvv de fdi8 ar" marker (MC)
10889.9 GXQ: British Army, London 1956 VFT: 7ch of 50bd/170 Baudot "test de gxq iryiryiryiry..." (MC)
10873.7 RFVI: French Forces, Le Port, Reunion Isl 0225 ARQ-E3 100/400 w/Controle de Voie on circuit REI. (RB)
10892 Unid UTC? VFT 100/788 lots of qrn unable to decode properly. (RT2)
10913.7 RFTJ: French Forces, Dakar, SEN 2223 ARQ-E3 48/425 idling, other half of 10917.7? (RB) RFTJ: FF DAKAR 1845 ARQ-E3 48/350 8rc. Betas. Tfc at 1855z RFTJK de RFFAAAK in French. 1915z Controle de voie svc RFTJ de RFTJ. Cct [TJF]. Suspect this is a spurious transmission of 10917.7 (DW)
10917.7 RFTJ: FF Dakar, SEN 2355 ARQ-E3 48/425 idle. (EW) RFTJ: French Forces, Dakar, 2213 ARQ-E3 48/425 SEN, idling. (RB) RFTJ: FF DAKAR, SEN 2130 ARQ-E3 48 idle. (TK)
10927 Unid: 2220 81-81? 81/226 signal, can't decode 81-81. (RB) Unid: 1754 81-81 81bd/250 tfc (MC)
10943.9 CFH: CF HALIFAX 2039 RTTY 75/1300 Wkg "CJ" on 6mhz & "KJ" on 16mhz & giving marker "NAWS de CFH zkr f1 2822 3394 8303 12386 16576 22185 ar". Note strange frequency & shift (DW).
10955 Unid 0122 ARQ-E 48/800 Idling, might be Port Bouet but they are normally on 10956.7. (ES)
10955.5 RFTJF: FF Dakar, SEN 1857 ARQ-E 48/851 w/"CdeV" & copy for RFTJ (FF DAKAR). (RH2)

10963 HBD20: Swiss MFA, Berne 1621 ARQ 5LGs (MC)
10971 HBD20/8: Swiss MFA, Berne 1621 ARQ 5LGs (MC)
10973 HBD20: MFA Bern 1215 ARQ 100 5Lgs. (PB)
10991.7 RFFVAY: Sarajevo, BHN 1355 ARQ-M2 200/400 2ch FKWA/FKWB to Paris (fdxa/fdxb). (pcG)
10998.7 USAF ? LOC "KAWN" 2101 RTTY 75/850 Met tfc sourced KAWN. No carrier when idle.
11023.7 Egyptian Embassy, Havana 2131 ARQ Answering call on QSX 9331.7kHz from MFA Cairo (MC)
11030 AXM33: Melbourne Meteo, AUS 2333 FAX 120/576 hffax. (RT2)
11037 H6L***: French Embassy, Algiers 1744 FEC-100 192bd/400 5LGs to MFA Paris (MC)
11043.7 RFTJD: Libreville, GAB 2015 ARQ-E3 192/400 JDJ to C.Vert. (pcG)
RFTJD: French Forces, Libreville, GAB 2029 ARQ-E3 192/425 w/controle de voie on circuit JDJ. (RB) RFTJ: FN Dakar, SEN 1645 ARQ-E3 192/360 w/"CdeV" on JOJ CID w/3 repeats. (RH2) RFTJD: FF LIBREVILLE, GABON 2150 ARQ-E3 192 Idle. (TK)
11074.4 Unid: RUS 1650 CROWD36 Russian diplo according WUN logs. (RH2)
11080 YKP28: SANA Damascus, Syria 1604 RTTY 50/400 w/nx summary in ATU-80, at 1649 in FF, then at 1737 in EE, ea segment was sent twice. (RB)
11090 Unid: 0657 UNID 162bd/500 UNID FSK System, sync, cont, probably 2x 81-81 (MC)
11110.5 RFLI: FF Martinique 2240 ARQ-E3 192/425 idle. (EW)
RFLI: Ft de France, MRT 2042 ARQ-E3 192/400 BFL to Paris. (pcG)
11121 Unid 1143 unk 75/170 unknown system (EW)
11133 BZG: Xinhua Beijing 1108 RTTY 50/425 ry then fax at 1110 very poor map. (EW) BZG: Xin hua, Beijing, China 1640 RTTY 50/425 nx in FF. (MS4) Unid, probably BND Germany 1233 ARQ-E 96/170 online encrypted tfc (PB) BZG41: XNA BEIJING 1705 RTTY 50/416 w/nx in FF. Also 1655. (RH2)
11135.5 Unid UTC? FAX 120/576 charts of Indian Ocean and the Middle East in the common USN format. At that time Diego Garcia (NKW) was not transmitting on its usual freq. (7582, 12806, 20302). (MS4)
11136 DFZG***: Serbian MFA, Belgrade 0746 RTTY 75bd/400 crypto after "xyxyxyxy" (MC)
11143 Russian Mil 1410 81-81 81bd/200 tfc (MC)
11149 Unid: 1450 RS-ARQ 240.1bd 8 tone IRS mode (MC)
11146 unid 1128 RTTY 75/396 encrypted tfc ended w/ok ome tks fb fb 73 (PB)
11155 GYU: RN Gibraltar 1525 PICCOLO-6 2-channels, didn't say whom he was wkg. (JD2)
11160 Unid 1115 unk 200/425 unknown system (EW)
11164.3 Bulgarian Embassy, Washington D.C. 2034 IRA-ARQ 240/500 (can't decode IRA-ARQ) fol by op chat in 75/850, w/RY's & "pse ZRY", "pse ZAR 300". (RB)
11171 Turkish MFA, Ankara 0616 RS-ARQ 240.1bd 8 tone tfc (MC)
11188 NATO Mil 1626 Link-11 (MC)
11203.6 French Diplo 2008 TT2300b 100bd idle (MC)
11248 Danish Air Force 1307 RTTY 75/850 wx taf-fc metar for EKKA then into USB chat in Danish on 11246. (PB)
11277 Unid: 1627 81-81 81bd/500 tfc (MC)
11372.8 UNHCR 2119 PACTOR 200bd/200 Relaying Internet e-mail. (MC)
11406 Russian Diplo 1620 CROWD-36 tfc (MC)
11420 V5G***: Romanian MFA, Bucharest 1915 ROU-FEC 164.5bd/400 (Bitmask=24) MSGs in RR to Washington (MC)
11423.5 SOL242: Warsaw Radio, Poland 1433 FEC NEWS in Polish. (TK)
11437.5 C37A: MOSSAD Tel Aviv, ISR 1751 ARQ-E 288/330 encrypted tfc. to 6XM8 QSX 13419 kHz. (ANEE)
11453.4 IMB31: ROME METEO 1710 RTTY 50/835 w/RY, ID. (RH2)
11468 Russian Navy 1412 36-50 50bd/250 tfc (MC)
11470.5 Unid: 1705 Mode? 96/254 unable to decode. (RH2)
11471 SNN299: Warsaw MFA, POL 0809 POL-ARQ 100/250 Pol nx. (pcG)
11513.2 Russian Mil 1122 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
11522 Unid 1043 50/850 unknown system (EW)
RFVITT: FF Dzaoudzi MYT 1020 ARQ-E 96/440 w/5LG's to RFVI on cct TTT. (ML2)
11527.5 UNID station, central Europe (F?/D?) 2100 unk F1B-108.86/170 FEC-system w/large spread, 32/96 bit correlation, 8 bit chars. (ANEE)
11538 Unid: 2122 81-81 81bd/250 81-81, tfc (MC)

11576.7 FJY3: TAAF Dumont d'Urville ATA 0810 ARQ-E3 96/400 w/msgs to FJY2. (ML2)
11581 Unid 1041 vft all encrypted channels (EW)
12090.2 RFTJ: C.Vert, SEN 2040 ARQ-E3 192/400 AFL to Paris. (pcG)
12110.5 Unid: 1059 UNID 250bd/170 UNID ARQ System, occasional bursts (MC)
12128 Russian Navy 1452 36-50 50bd/500 tfc (MC)
12143 SNN299: Polish MFA, Warsaw 1453 POL-ARQ 100bd/250 idle (MC) POL-EMB Algiers, ALG 1455 POL-ARQ 100 5-CRC, 5FGs to Warszawa. (ANEE)
12147.9 Unid: 1642 81-81 81bd/500 tfc (MC)
12150 IPG20: Italian MFA, Rome 1553 ARQ-E 96bd/170 Diplo NX & 5LGs "da maeroma" to Warsaw "ambvars" (MC)
12152.5 Unid 1443 FEC Encrypted. (TK)
12173.5 UNID?? UK DCN ?? 2035 PICCOLO/? 1ch idle. (pcG)
12198 Unid 1023 81 baud encrypted text. (EW)
12204.8 Unid: 0827 UNID 362.4bd/500 UNID FSK System, ACF=10 (MC)
12216 OLZ: Czech MFA, Prague 0750 RTTY 100bd/424 Cultural NX in Czech (MC)
12220.9 Russian PTT 0721 OQPSK 1280bps UNID System, on LSB (paired with 12225 9kHz) (MC)
12222.5 unid 1935 ARQ-E 288/326 online encrypted tfc 8CRC, ended at 1939 w/RTTY 100/338 ok ok qrx ar va xr va by by (PB)
12228 Xinhua News, Beijing China 1448 RTTY 75 Nx in EE. (TK)
12228.5 Xinhua, Beijing 1455 RTTY 75/400 EE nx. (TD2)
12262.4 HGX21: Hungarian MFA, Budapest 1747 ARTRAC 125bd/170 5LGs to HGX41 (Damascus) (MC) HGX41: Hungarian E, Damascus 1746 ARTRAC 125db/170 5LGs to HGX21 (MFA Budapest) (MC)
12285.7 Egyptian MFA, Cairo 1701 ARQ ATU-80 MSGs to Vienna "kds uss--gk" (MC)
12285.7 MFA Cairo, EGY 1809 ARQ 5lgs from "khargia cairo" to various embassies. (pcG)
12298.2 UNID?? 2030 VFT 7x75bd/170 chs (6028). (pcG)
12477 YLAO: TKH Mikhails Lomonosovs 1531 ARQ w/admin TG to Riga Radio from master KM Voitko. YLBA: TKH Pavel Parenago 1540 ARQ w/posn report to Riga Radio, 4554N/7640W, course 068 at 17 kts. (RB)
12477.5 P3VL2: M/V PONTOPOROS 1433 ARQ telex to FEDNAV Montreal abt berthed St Petersburg login 56329 P3VL2. (HOOD)
12478 KXCH: SS Jeremiah O'Brien 0325 ARQ msg ck's. (AB2)
12479.5 C6KN2: Mv Winter Water 1805 ARQ obs to meteo Pretoria. (BvR)
12482.5 3ESY7: MV FRIO ARCTIC 1125 ARQ msg from Capt Cherkasskiy via PCH. login 42645 FRIO. (HOOD)
12483 TCKT: M/V Mentese 1636 ARQ 54,199 DWT bulk carrier w/ETA Punta Cardon. (RB)
12484 T2CC: M/T MULTITANK ASCANIA 1421 ARQ w/order for supplies. login 79402 T2CC. (HOOD)
12492 EQJO: M/V IRAN SADOGHI 1815 ARQ msg in EE to Tehran via A9M. (HOOD)
12494 BOPV: Mv Luxun 0945 ARQ tlx re eta Port Said. C6LF7: Mv Royal Reefer 0950 ARQ supply list. PEYU: Mv Jacobus Broere (ship 84877) 1018 ARQ pos 60m nw Tabarka from Venicenr Huelva. PESF: Mv Holland Klipper 1029 ARQ pos 120m sw Rome from Marseille to Koper. 3ENP4: Mv Frio Oceanic 1300 ARQ tlx tfc via PCH. SVKJ: Mv Skyros 1351 ARQ pos Piraeus. (BvR)
12495 UZXU: TK GEROI SEVASTOPOLYA 1437 ARQ crew TGs to UFN. UJEK: TK MARSHAL CHUKOV 1826 ARQ admin from Km Tremitskiy to UFN. (HOOD)
12496 9HZG2: M/V SEADUTY II 1950 ARQ msg to Montreal abt ETA for St John, NB. (HOOD)
12496.5 P3LV2: M/V Pontoporus 2208 ARQ w/tlx for revision of ships chandlers order, login 56329 P3LV2. (RB)
12498 USXH: TKH IVAN PROKHOROV 1001 ARQ eta for Limassol via Bern Radio. (HOOD)
12499 OXWB2: Mv Danica Sunrise 1752 ARQ co/ch OXZ, tlx tfc eta Port Said. (BvR)
12503.5 ATSR: M/V Rani Padmini 1506 ARQ 96,384 DWT bulk grain carrier, w/tlx re 3 days notice for arrival at S.W. Passage to load grain, login 23552 RNPM. BRQE: M/V Yu Lung Shan 1550 ARQ 64,446 DWT Chinese-flagged bulk carrier, w/tlx re ETA Mississippi River, login 09711 BRQE. (RB)
12504.5 UJUA: TK DAVID GURAMISHVILI 1250 ARQ departing Samsun for Istanbul. Selcal 55313, via Portishead Radio, from Km Seidishvili. (HOOD)
12508 WLBV: M/V Richard G. Matthiesen (T-AOT-1124) 1438 ARQ MSC chartered oiler, w/tlx tfc. (RB)

12515.5 UIMY: RTMA Peredovik 0329 RTTY 50/170 crew TG's. (AB2)
12522 LYCF: ML KEDAINIAI 1809 RTTY 50/170 admin and SVC msg to Radijas Klaipeda (LYK).
12522 LYCA: ML IGNALINA 1915 RTTY 50/170 SVC msg to LYK from R/Off Virkeis. (HOOD)
12560 UVHA: VASILIY LOZOVSKIY (MA-1823) 1400 RTTY 50/170 crew TGs to UDK2. (HOOD)
12561 UGMS: ST KAPITAN SMELOV 1800 RTTY 50/170 admin to Novorossiysk from Km Safonev via UGW. Vsl was off coast of NW Africa. (HOOD) UGMS: BMRT Kapitan Smelov 1720 RTTY 50/170 Russian long range/endurance large freezer/factory fishing trawler w/admin TG for food provisions in Las Palmas from master KMD Safanov. (RB)
12561.5 UATZ: BATM KONDRAT BILYUTIN 1805 RTTY crew Tgs to UIW. UGZJ: SRTM Tava 1909 RTTY 50/170 Russian medium fishing trawler/freezer, w/admin msgs using hull#/ID SRTM 8095 from master KM Likhikvich (KLD/MRH). UHAK: SRTM Lyublino 1915 RTTY 50/170 w/RYRY/DE to UIW, & w/into admin tfc from master KM Gulenko, to Kaliningrad Radio (KLD/MRH), using hull#/ID SRTM-8106, was a RTMS trawler. (RB)
12562 UCDR: TKH IVAN SKURIDIN 0736 RTTY 50/170 tfc to UAT. Vsl is ro-ro owned by Sakhalin Shipping Co, Kholmsk and is ex UVEK and J8HL8. UAIO: NIS BAVENIT 0628 RTTY 50/170 BBXX and crew TGs to Murmansk. (HOOD)
12562.5 UALY: RTMS ZVEZDA 0733 RTTY 50/170 admin to KALININGRAD POISK from Km Gavrilenko. UFNH: BMRT VLADIMIR BRODYUK (MB-0021) 1008 RTTY 50/170 crew TGs to UDK2. UANA: FRITJOF NANSEN (trawler) 0814 RTTY 50/170 w/BBXX to Murmansk Pogoda via UDK2. Vsl is ex UTSZ. UAMZ: BMRT PAVEL KAYKOV (MB-0004) 0810 RTTY 50/170 admin to Murmansk from KMD Kravchenko/KMN Velikzhanin. URPD: BMRT ZVEZDA CHERNOMORYA 1457 RTTY 50/170 crew TGs to Kerch. UGZJ: SRTM TAVA 1723 RTTY 50/170 admin to UIW as SRTM-8095 with this c/s and name. EVBD: RTM DIONIS 1730 RTTY 50/170 admin from Km Stankov and crew TGs to UIW. UNYC: RAMIGALA (MKRTM-0617) admin to UIW abt Navtex and GMDSS equipment from Km Oleynikov. (HOOD) UUYK: TKH Ivan Moskalenko 2031 RTTY 50/170 Ukrainian 13,302 DWT dry cargo vsl, w/admin TG's to Odessa from master KM Khilik. UBRJ: TR Ulbanskiy Zaliv 2044 RTTY 50/170 9,360 DWT Russian reefer/fish carrier, w/20106 report (VLD/VTF) to Vostoktransflot (VTF). P3YI3: TR Frio Brazil 2218 RTTY 50/170 4,196 DWT reefer w/RYRY to UIW, K-grad radio, & w/crew TG's to Kerch. 3FKW4: TR Ref Vega 2350 RTTY 50/170 93,60 DWT reefer w/RYRY/DE to UIW, & w/crew TG's. (RB)
12563 UUUY: TR Kerchenskiy Proliv 2112 RTTY 50/170, Ukrainian reefer/fish carrier w/RYRY/DE to URL, into admin TG from master KM Kordzk (SVS/MRH), this is the ex-LYBK. (RB)
12563.5 N/A: Mv Doryf (sw no 29227) 1444 ARQ maritex mgs co/ch SAB. (BvR) IBSZ: M/V JOLLY GRIGIO 0700 ARQ with ETA for La Spezia. login 20727 IBSZ. (HOOD) V2QG: M/V Tagama 2154 ARQ 17,400 DWT dry goods cargo vsl, w/tlx tfc. (RB)
12564.5 UAMC: RTMA SADKO 0812 RTTY 50/170 crew TGs via KLD MARINPO and UIW. UBHN: BATM LAZURNYY 0826 RTTY 50/170 admin to MURMANSK SEVRYBA & KALININGRAD RUMB WESTRYBFLOT via UIW. UGVJ: RTMS NOVOCHEBOKARSK 0651 RTTY 50/170 admin from Km Lebedyev to UIW. (HOOD) UNMJ: BATM Valeriy Dzhaparidze 2050 RTTY 50/170 Russian large autonomous long range/endurance trawler, freezer, w/crew TG's, now using first name "Valeriy" & not using hull ID of BATM 6040 any longer. (RB)
12565 UZZT: TKH OGNAN NAYDOV 1728 RTTY 50/170 admin from Km Kadubinskiy to USU. URZG: TKH PAVEL ANTOKOLSKIY 0712 RTTY 50/170 crew TGs & admin from Km Glebov to USO5. Vsl is a barge carrier of the Ukrainian Danube Shipping Company (No. 216011). UAYZ: TSIMLYANSK (MB-2419) 1217 RTTY 50/170 admin to UDK2. UAZC: NIKOLAY ZAKORIN 0927 RTTY 50/170 admin to UDK2 from Km Mokhov. Vsl off coast of Greenland. (HOOD) UDUR: RTMKS Admiral Starkov 2139 RTTY 50/170, Russian stern ramped super fishing trawler/super freezer, w/crew TG's to Murmansk using hull#/ID MA-1812 (MRM/KRH). (RB)
12565.5 P3YI3: FRIO BRAZIL 2014 RTTY 50/170 crew TGs to UIW. UAVS: ZNAMENSK (AG-1333) 0840 RTTY 50/170 admin from Km Permilovsiy and crew TGs to RKLM. Vsl is ex UTWW. ENUR: TKH STAKHANOVETS PETRASH 1445 RTTY 50/170 msg in EE to Geneva from Km Emelyanov. Vsl uses abbrev name "ST PETRA". (HOOD)

12566 UBXS: ALEKSANDR KOSAREV (MA-1806) 0740 RTTY 50/170 crew TGs to UDK2. UAKA: NIS PROFESSOR MOLCHANOV 0742 RTTY 50/170 admin to UHS. Vsl is ex UUKR (used UUKR in RY tape but signed off in CW with UAKA, which is new ITU call). UTJY: N/A 1326 RTTY 50/170 RY tape to UDB42 DE UTJY then garbled but addressed to HLM (Kholmsk Radio). YLFR: MILGRAVIS 1028 RTTY 50/170 admin to Riga using LZ-6125. YLFT: BATM SERGEY YESENIN 1031 RTTY 50/170 admin to Riga and Moscow using BATM-6123 from Km Sadykh-Zade. (HOOD)
12566.5 UUAY: TKH VINNITSA 1834 RTTY 50/170 crew TGs to UUI. UZPA: TKH MOLODOGVARDEYSK 1749 RTTY 50/170 msg in EE to Bombay via UUI. (HOOD) YLGL: TR Selderi 2239 RTTY 50/170, Latvian 12,280 DWT reefer (Riga RTF) in RYRY/DE to UIW, Kaliningrad Radio, & w/crew TG's home. (RB)
12567 UNCH: BMRT GAZGAN 1817 RTTY 50/170 catch rpt to Novorossiysk via UGW. UWOA: BMRT Tsemesskaya Bukhata 2058 RTTY 50/170 RYRY/DE to UGW, then into crew TG's (NVR/KRH), vsl bound Las Palmas. UCSA: RTMS Eysk 2124 RTTY 50/170 Russian super fishing trawler/super freezer, w/hold report w/fish in tons, fol by C54 report to Novorossiysk Radio from master KM Bezborodov. UFAA: BATM Aleksey Generalov 2132 RTTY 50/170 Russian long range/endurance large autonomous trawler, w/RYRY/DE to UDK2, then tfc to BVC Sevryba using hull#/ID MA-0062. UCBW: RTMS Nikifor Pavlov 2133 RTTY 50/170 w/admin hold report showing qty of frozen fish in each (lots of sardines!) from master KM Zaritskiy. (NVR/MRH) (RB)
12567.5 UAVU: ZAVOLSK (AB-0033) 0932 RTTY 50/170 psn rpt & same for AB-0032, 0034 & 0035 via RKLM. All off east coast of Iceland. (HOOD) UTHJ: BKRT Mariya Poldivanova 1929 RTTY 50/170 crew TG's to Sevastopol Radio (SVS/MRH), logged next day on 12562.5 w/admin msgs from master, KM Kirsanov. UAWQ: ZRS Menzelinsk? 2134 RTTY 50/170 w/admin traffic to Arkhangelsk using hull#/ID AG-1342 from master KM Bovykin, but seemed to use name of Gayaerv as ship name. (RB)
12568.5 ELSH5: TKH SHOTA RUSTAVELI 0739 RTTY 50/170 crew TGs to UUI. ENTC: ODESSA 1725 RTTY 50/170 crew TGs to UUI. (HOOD) UZZF: TKH Kapitan Alekseev 2054 RTTY 50/170 w/RYRY to UUI, Odessa Radio, & w/crew TG's (ODS/UMF). UUGF: TKH Shota Rustavelli 2118 RTTY 50/170 w/RYRY/DE to UUI, into crew TG's to same, Odessa Radio. UVLM: TKH Syktyvkar 2125 RTTY 50/170 4,494 DWT dry cargo vsl, w/admin tfc to Odessa from master KM Berunenko. (RB)
12569 YLFN: INZENERIS JUDINCEVS (LZ-7567) 0925 RTTY 50/170 admin to RIGAS ZWEYNIETSIBA from Km Papkovskiy via UQK. UZVO: TKH IVAN CHERNYKH 0740 RTTY 50/170 svc msg (left Algiers, bnd Koper). UBCB: VASILIY FILIPPOV 0935 RTTY 50/170 admin & BBXX to UDK2 from 64.2N 3.5W. YLFB: AICINAYUMS (LM-7552) 0942 RTTY 50/170 admin to RUSIMPEX MOSCOW from Km Danchuk via UQK and asking for any tfc on 8446kHz at 0600. (HOOD)
12569.5 UALV: RTMS KULIKOVO POLYE 0813 RTTY 50/170 admin from Km Smirnov. Vsl signed off w/new c/s UALV, is ex UZUR. UVHI: N/A (SRTM 8104) 1425 RTTY admin to PIONERSK TRAL from Km Prokhonov via UIW. (HOOD) P3YG6: TKH Kapitan Kirichenko 2225 RTTY 50/170 Cyprus-flagged 5,250 DWT reefer, w/RYRY/DE, then w/crew TG's to Vladivostok Radio. This is the ex-UIIK & app still Russian crewed. (RB)
12570 UCTJ: N/A 0804 RTTY 50/170 passing BBXX & crew TGs to Murmansk as MI-0698. UBAW: ADMIRAL SHABALIN (MA-1807) 0655 RTTY eta for Lerwick (in EE) to UDK2. (HOOD)
12570.5 URYS: SRTM Torok 2050 RTTY 50/170 Ukrainian medium fishing trawler/ freezer, w/admin TG's to K-grad from master KM Kononenko using hull#/ID SRTM-8099 (KLD/MRH), app is ex-LYIN? (RB)
12571 UUQU: PIONER ARKHANGELSKA 0721 ARQ BBXX and admin from Km Markov re left Genoa bnd for Arkhangelsk. Vsl call now UCPJ in ITU but still using old call. URQW: TKH PAVEL KORCHAGIN 1735 ARQ admin to UCE. ITU call now UCPD but still on old c/s. (HOOD)
12571.5 UHLE: SEMYON LAPSHENKOV (MB-0014) 0818 RTTY 50/170 crew TGs to UDK2. (HOOD) UHMK: SRTM Strelnya 2156 RTTY 50/170 Russian medium fishing trawler/freezer, w/crew TG's using hull#/ID SRTM 8108 & name. (RB)
12572 ULSU: BMRT VOLGOBALT 1815 RTTY 50/170 crew TGs to Murmansk. UDYG: ZAHAR SOROKIN (MA-1816) 0810 RTTY 50/170 RYs to UDK2, no joy so moved to 12570 for tfc from Km Samokhvalov. (HOOD)
12572.5 ESMD: RTMS Kormoran 2136 RTTY 50/170 w/crew TG's to Tallinn Radio using hull#/ID RTMS 7535/Kormoran. YLGH: TR Dimants 2315 RTTY 50/170

Latvian 9,087 DWT reefer/fish carrier, w/posn report (2742N/08611W) from master KM Fayzutdinov, ex-UJMU. (RB)
12573 UVJE: N/A 0938 RTTY 50/170 admin from Km Zaretskiy as SRTM-8105 to UIW. UPRR: BATM Petr Sbignev 2036 RTTY 50/170 Russian large autonomous long range/endurance trawler, freezer w/msgs to BVC Sevryba using hull#/ID MA-0055. (RB)
12573.5 UAMC: RTMA SADKO 0950 RTTY 50/170 admin from Km Sungatullin to UIW (using old c/s EWAD in RY tape). (HOOD)
12574 UAYX: BMRT PAVEL PANIIN (MB-0013) 0833 RTTY 50/170 crew TGs and admin from Km Bezdolnyy to UDK2. (vsl is ex USRM). USRV: BATM MARSHAL YEREMENKO 1805 RTTY 50/170 crew TGs to UDK2. (HOOD)
12574.5 N/A M/V HASSAN JUNIOR 0725 RTTY 50/170 msg in EE to UUI re ETA Chipiona pilots for discharge Sevilla. UAYM: LEONID YELKIN (MB-0008) 0731 RTTY 50/170 admin from Km Onegov to UDK2. (HOOD)
12576 UCMW: TKH ALEKSANDR PANKRATOV 1212 CW BBXX to UCE using new c/s. Is ex UPKC. (HOOD)
12579 NMO: Honolulu uscg radio 0745 FEC wx & storm information (EW)
12579.5 YLQ: RIGA RADIO 1430 FEC msg to P3RK4: TK ABAVA using this new c/s (ex YLAD). (HOOD)
12580.5 KFS: San Francisco Radio 1522 FEC kfs sitor 1203 ships tfc list.(RT2)
12584 VIP: Perth radio 0753 ARQ msgs to ships in RR. (EW)
12588 UFZ: Vladivostok radio 0800 50/170 ry (EW)
12598 SPA: Gydnia Radio-Poland 0615 FEC cq de spa-tfc list. (MS4)
12591.5 UFL: Vladivostok radio 1040 ARQ msgs to ships (EW)
12593 ESA: TALLINN RADIO 1130 FEC Press to Estonian ships in 3sc. Was // w/16826. Followed by blind traffic at 1153z then idling on alphas. Ends bdcast & returns to marker "de ESA" and tuning burst. (DW)
ESA: TALLINN RADIO 1606 FEC msgs to ML KABALA (ESIA) for Km Kedrov. (HOOD)
12597 9VG95: Singapore radio 0019 ARQ msg to ship EQJL (Iran Dastghayb) (EW) 9VG80: Singapore radio 1915 ARQ ww unid mv. (BvR)
12608 UAT: Moscow Radio 1820 FEC cq freq's & tfc list. (BvR)
12618.7 UNID: 1745 ARQ Msg in cryptic format signed "Agrios Nikol". Also before closed down !Fm: Fair Lady 7/8/96 1450 gmt" Off channel for coast stations. (DW)
12647 LPD: GEN PACHECO RADIO 1058 FEC Marker "LPD" & tuning burst then qtc list "LPD Pacheco" and station indicates "watching 4 8 12 and 22 mhz iniarq service", at 1500 Wkg unid ship, adv telex line problem & are working on it. QRX 30 mins. Then fec mode and tfc list. QSX 4 8 12 and 22 mhz in arq service. (DW)
12653 KBQ: SEA LINK 0300 ARQ WKG UNID SHIP IN OPR (CHAT) MODE. "DE KBQ SEA LINK". (WT)
12673.9 BUENOS AIRES MET ? 2125 FAX 120/576 Chart of S.America - sfc analysis. Then at bottom of chart constant output as if feed jammed or repeating same scanline. Newchart 2206z. Faded out. (DW)
12714 UCE: Arkhangelsk Radio 1832 ARQ tlx tfc to UJDG. (BvR)
UCE: ARKHANGELSK RADIO 1613 ARQ mailbox tfc to UZJP: TKH PERM. (HOOD)
12732 USU: MARIUPOL RADIO 1446 RTTY 50/170 crew TG to USPV: TKH MEKHANIK ANISKIN. (HOOD) USU: Mariupol Radio, RUS 1420 RTTY 50/170 w/traffic to unid vsl fm "Odessa KM Direktor Koncerna" fol by sev crew TG's. (RB)
12804 NKW: USN Diego Garcia 1335 FAX 120/576 850 mb 36 h fcst. (MS4)
12947 UUI: ODESSA RADIO 1500 RTTY 50/170 crew TGs to USMB: TKH IZVESTIYA, UUEI: TKH SOKOL, URKY: TKH ALEKSANDR MATROSOV, UTOK: TKH AKADEMIK YEVGENIY PATON and UYPT: TKH IZMAIL. (HOOD) UUI: Odessa Radio, UKR 1426 RTTY 50/170 w/traffic to UYFX, TKH Vladimir Vaslyayev; at 1443 wkg ELSI3 fol by UVAU, TKH Zoya Kosmodemyanskaya, a 49,999 DWT bulk carrier. (RB)
12961.5 HBD20: Swiss Embassy, Berne, Switzerland 1721 ARQ w/5LG's to unid location, ID "HBD20". (RB)
13030.3 FUF: FRENCH NAVY FORT de FRANCE MARTINIQUE 0605 RTTY 75/420 w/RY'S & ID. (DW2)
13042 FUV: French Navy Djibouti 0520 RTTY 75/425 vvv de fuv testing -Interference with CW station XUS Ho Chih Min, Vietnam. (MS4)
13050 UDK2: MURMANSK FISHERIES RADIO 0631 RTTY 50/170 RYs and freqs as 521.5/3740/6393.5/8550/13050 then tfc list and listening 12459 for CW & 12568.0 for RTTY. (HOOD)
13054 UIW: KALININGRAD RADIO 1522 RTTY 50/170 tfc to UHAP: BST IVAN BORZOV,

ESHV: TAMULA, EMKL: TR SKALISTYY BEREG and UATZ: BATM KONDRAT BILYUTIN (using this new c/s, is ex UNLC). Same at 1654 tfc to P3AX6: TR ANTON GURIN w/new call, is ex UJFM. (HOOD)
13067 Unid: 1535 RTTY 100/850 encrypted traffic. (MS4)
13068.5 C37A: Mossad/BND link 1531 ARQ-E 8crc 288/330 encrypted tfc. (PB)
C37A: Israeli Intel, Jerusalem 1346 ARQ-E 288bd/330 crypto to "6XM8" QSX 14721kHz (MC)
13226.7 Egyptian MFA, Cairo 1550 ARQ ATU-80 MSGs to various embassies (MC)
13317 Korean Diplo, Pyongyang 1440 RTTY 50bd/1000 MSGs in KK and crypto. (MC)
13365.1 5YD: Nairobi Meteo, Kenya 1754 RTTY 50bd/400 AAXX WX (MC)
13347.7 MFA Cairo 1630 ARQ tfc to Algiers, Bonn & lastly, from Washington until 1730, used rabat embassy to relay all traffic. (ANEU)
13363.7 UNID: PROBABLE USAF AWS 2140 RTTY 50/425 w/ICAO surface wx tfc. Ea message starts w/KVA###. (DW2) (KVA is the circuit ID for 5YD, Nairobi Meteo, recently logged on 13364 in this baud/mode -LOGS)
13365 5YD: Nairobi Air-Kenya 1105 RTTY 50/425 ry de 5yd.
13376 Unid 1017 75/170 unknown system (EW)
13379.7 MFA Tokyo, J 1530 ARQ tfc to various african embassies to 1700. (ANEU)
13391.5 French Diplo? 1550 TT2300b 100bd tfc (MC)
13399 DFZG: MFA Belgrade 2300 RTTY 75 w/RYRYRYR. (TK)
13408.3 Unid: 1042 Packet 300/170 "CMPAK4 CMPAKA 1513IP C ANGGOTA:MIL 48 ORG KMA PNS 36 ORG". ID? (MS4) (Murray Lehman later posted "The call signs (plus CMPAKA0/1/2/3) are used by some kind of mailbox 13408.3 in Indonesia but I don't know who runs it. I have copied traffic which refers to the Indonesian Army and also some which refers to fishing. An organization called ASINTEL has also been seen.The only definite info I can give is that CMPAKA is 13408.3 Jakarta. This was from traffic on 13407" -LOGS)
13416 British Mil 1407 VFT: 2ch of Piccolo-6, crypto (on LSB) (MC)
13416.4 British Mil 1406 VFT: 2ch of Piccolo-6, eng. ch idle (on LSB) (MC)
13418.7 Unid: 0940 ARQ-E? 86/131 is this "6XM8"? Poss ARQ-E Mossad clg C37A? (RH2)
13419 Unid 1417 ARQ-E 288 encrypted message. (TK)
13440 YZI: Tanjug News, Belgrade 0007 RTTY 50 EE nx. (TK)
13444.3 RFQP: FF Djibouti 1100 ARQ-E3 100 de rfqp, controle de voie. (MS4)
RFQP: FF Jibouti, DJI 1730 ARQ-E3 100/404 w/"CdeV" on FQP cid. (RH2)
RFQP: FF Le Port, Jibuti 1212 ARQ-E3 100 Controle de voie. (TK)
13459 Hungarian Diplo? 1402 UNID 250bd/850 UNID ARQ System, ARTRAC-2? (MC)
13462 Hungarian Diplo? 1355 UNID 250bd/850 UNID ARQ System, ARTRAC-2? (MC)
13465.2 RFFTC: FAF unknown loc. 1434 ARQ-E3 200/393 RFFVAT de RFFTC fm:centelecomair istres to:comelef aconit, non protege (PB)
13466.5 Polish Embassy, Hanoi, Vietnam 1410 POL-ARQ 100 POL messages. (TK)
13467 SNN299: MFA Warsaw 1420 POL-ARQ 100/260 nx items in Polish (PB)
13475 Unid 0949 unk 81 baud encrypted text. (EW) (most likely Russian military in 81-81 -LOGS)
13505 AAA6USA: Fort Sam Houston, Tx 1809 PACKET Central Army MARS gateway, wkg AAT7TKS via "AB4USC.KC.PAC" gateway. Note the first "A" in each c/s is dropped to conform to packet protocall w/these stations. (RB)
13510 CFH: Halifax Military, NS, CAN 1849 RTTY 75/850 w/wx synops. (RB)
CFH: Halifax, NS. CAN 1330 RTTY 75/571 1.5 stopbit synoptic wx. (RT2)
FUX: FN Reunion 0944 RTTY 100/650 w/crypto, normally use 75bd for ID marker. (RH2)
13522 Unid 0949 unk 81 baud encrypted text. (EW) (most likely Russian military in 81-81 -LOGS)
13537.6 UNID: 0925 PACTOR unable decode. (RH2)
13541 NNN0CEI: USN? 2049 PACTOR/1 USN marsgrams. (pcG) (USS Camden AOE-2 -LOGS)
13541.8 ZRO3: PRETORIA METEO 0920 RTTY 75/346 w/synop codes. (RH2)
13543.7 RFTJD: Libreville, GAB 2044 ARQ-E3 192/400 HAI to Paris. (pcG)
13555 SNN299: Polish MFA, Warsaw 0647 POL-ARQ 100bd/236 Claris MSGs (MC)
13570 Unid 1015 200/425 unknown system. (EW)
13570.5 British Mil 0648 Piccolo-12, crypto (MC)
13580 MKK: RAF LONDON 2130 PICC/VFT 2 channel piccolo vft. Both channels idle. (DW)
13580.5 MKK: RAF LONDON 2132 PICC 13580.510. Channel in vft. Idle then "de MKK pls ut sy to f10 2134z kkk". Later "de MKK rgrgrg int zbz k" and

"de MKK rgrg 555ens also chrs pm k" (DW)
13580.9 MKK: RAF LONDON 2257 PICC 13580.910. Channel in vft. Idle then vft offair at 2258z.
13585.9 MAP Rabat 1732 RTTY 50/398 nx in FF. (PB) MAP, Rabat, MRC 1650 RTTY 50/425 w/ MAP FF nx items. (RB)
13597 JMH: Tokyo, Japan 1315 FAX 120/570 Gms 5 satellite picture (very good signal, typhoon clearly visible). (MS4)
13780 HMF35: KCNA News Pyongyang 1013 50/170 nx in unid lang. (EW)
13846.7 RFVI: FF Le Port Reunion 1010 ARQ-E3 100/425 idle.(EW)
RFVI: Le Port, REU 1912 ARQ-E3 100/400 RUN to Jibouti. (pcG)
RFVI: FF Le Port, Jibuti 1150 ARQ-E3 100 Controle de voie. (TK)
13848.5 RFFXL: Beirut UNIFIL, LBN 1546 ARQ-E 72/400 XZL to Paris. (pcG)
13855 V5G: Romanian MFA, Bucharest 1321 ROU-FEC 164.5bd/400 (Bitmask=24) Press circulars to all embassies (MC)
13855.1 V5G: MFA Bucharest 1340 mode? w/circulars in Romanian (PB)
13856 SOUD station 1755 RTTY 100/494 5Lgs 11166 8*190 10430 21806 01259 -go into 5Lgs-gr 28 tyknb ukm* ok 11177 00190 00000 21804 01291. (PB)
13875.4 HGX56: Hungarian Embassy, Cairo 1334 ARTRAC 125bd/200 MSGs in HH to HGX21 (MC)
13880.5 UNID UKR-Station, UKR 0530 CIS-14 96Bd/500, "citrus" test tape after zczc on channel A, then into PSEUDO# bitstream tfc. after kkkkkkkkkkkk, QSX 14549.5 kHz. (ANEE)
13881.4 MKK: RAF London, G 1838 RTTY 50/170 w/RYI'S/FOXES/1-10 count, etc. (RH2)
13886.7 RFF-: Paris, F 1938 ARQ-E3 192/400 ITF to Libreville (pcG)
13890 UNID UKR-Station, UKR 0535 CIS-14-96Bd/500, "citrus" test tape after zczc on channel A, then into PSEUDO# bitstream tfc. after kkkkkkkkkkk, QSX 14549.5 kHz. (ANEE)
13900 BMF: Taipei meteo 1007 fax 120/576 wx maps (EW)
BMF: Taipei, Taiwan 2215 FAX 120/576 Surface Analysis (fair quality).(JJ)
13903 Unid: 1210 ARQ-E 96 encrypted. (TK)
13907.5 Unid: 1721 ARQ MSG in FF (groceries) mentions Bassikounou (MC)
13913.6 Unid: 1123 PACTOR 200bd/200 UNID sub-mode, no sync (MC)
13917 Tripoli-Polish LBY 1505 POL-ARQ MFA msgs to Warsaw (pcG)
13945.2 Russian Mil 1336 MS5 12 tone vocoder (3300Hz pilot) (MC)
13947 ROM5: Tashkent meteo 0951 fax 90/576 wx maps (EW)
13956.5 "25I": MFA Tunis, TUN 2000 FEC off w/ 'ENVOILE 09/08/96 XXAL', at 2005 w/RYRY to "ZGI" & w/"routine" marked 5LG's. (RB)
13958.5 HBD20: MFA Berne, SUI 1610 ARQ 5lgs. (pcG)
13965.5 HBD20: MFA Berne, SUI 1530 ARQ FF text msg. (pcG)
HBD??: Swiss Embassy, Ottawa? 1757 ARQ Swiss emb formatted msg, assumed Ottawa, CAN, from signal strength & prior logs here. (RB)
MFA Berne, Swiss 1400 ARQ 5LG's. (TK)
13967.2 UNID: 1600 FEC "tr tr jn jn" ? (pcG)
13971 Unid: 1448 81-81 81bd/200 tfc (MC)
13977 HBD20: Berne MFA, SUI 1710 ARQ 5lgs. (pcG)
13986.7 RFFA: Paris, F 2010 ARQ-E3 192/400 IGU to Cayenne. (pcG)
13996.5 STK: Khartoum Aero, SDN 1630 RTTY 50/400 ryry test. (pcG)
13998 IFRC???: Kinshasa 1439 PACTOR-I2 200bd/200 MSG in FF to IFRC Bukavu. (MC) IFRCBZV***: IFRC, Brazzaville 1414 PACTOR-I2 200bd/200 MSG in EE to Geneva (MC) IFRCGVA***: IFRC, Geneva 1417 PACTOR-I2 200bd/200 MSG in EE to Kigali (MC) IFRC???: IFRC, Bukavu 1438 PACTOR-I2 200bd/200 MSG in FF to IFRC Kinshasa (MC)
13998.5 Unid: 0626 Piccolo-12, crypto (MC)
14116 Unid 0949 unk 81 baud encrypted text. (EW) (most likely Russian military in 81-81 -LOGS)
14340 BAF47: Beijing meteo 0947 50/850 wx reports (EW)
14358.5 British Mil 1511 Piccolo-12, short crypto MSGs (MC)
14367 BZP54: Beijing XINHUA CHN 0745 RTTY 75/400 EE nx. (pcG)
14377 DoSC Moskva, RUS 0819 RTTY 75/500 5LGs to DKR on link 70060. (ANEE)
14405 DOR***: Bulgarian MFA, Sofia 1933 RTTY 75bd/500 NX in Bulgarian (MC)
14415 Unid 1241 unk 200/425 unknown system. (EW)
14430.2 Russian Mil 1407 MS5 12 tone vocoder (3300Hz pilot) (MC)
14430.3 Unid: 1258 RTTY 50/850 w/5LG's & off. (RB)
14438.1 FJY2: DTRE KERGUELEN I. 1030 ARQ-E3 100/390 w/"ZID TWE TWEDINT ZWG CHEZ TOI ?". (RH2)
14445 Unid: 1519 81-81 81bd/250 tfc (MC)

14451 Unid: 1520 81-81 81bd/500 tfc (MC)
14462.8 Unid: meteo 1138 RTTY 96/390 good sigs. (RH2)
14467.3 DDH9: Hamburg Meteo, Hamburg, Germany 1503 RTTY 50 WX report. (TK)
14475 Unid: 0954 81-81 81bd/200 tfc (MC)
14479 Unid: 1124 ASCII-ARQ 300.6bd/420 ACF on tfc, opchat in 300bd ASCII. (MC)
14479.5 Unid 1148 RTTY 100 Un-ID. (TK)
14481.7 RFTJ***: French Forces, Dakar 1542 ARQ-E3 48bd/400 MSGs in FF & 5LGs to various RFF stations (MC) RFTJ: French Forces, Dakar, SEN 2052 ARQ-E3 48/450 w/controle de voie on circuit TJF. (RB)
14482 MFA Islamabad, Pakistan 0516 ARQ to Parep New Delhi-5lgs. (MS4)
14486 P6Z: MFA Paris, F 1420 FEC-A 192 encrypted. (TK)
14488 OEC: Austrian MFA, Vienna 1334 ARQ-S 96bd/170 5LGs circulars (MC)
14492 P6Z: MFA Paris 0620 ARQ6-90 200/400 w/5LG's to Riyadh (ML2)
14494.7 Unid: 1007 TT2300b 100bd tfc (MC)
14497.5 CSY: S.Maria Aero, AZR 0855 RTTY 50/850 ryry test. (pcG)
14499.5 French Diplo? 1543 TT2300b 100bd idle (MC)
14507.2 D4B, Ivory Coast ASCENA 2354 RTTY 50/450 RY's & ID, slight drift in frequency. (PS)
14509.7 RUS-MIL station, RUS 1028 PSK system+CW, QSX 14717.88 kHz. (ANEE)
14518 MFA Vienna, Austria 1145 ARQ-S press items in GG. (JD2)
14518.5 Unid 0943 fax 120/576 poor quality wx maps cannot id. (EW)
14520.2 Russian Mil 1545 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14520.5 British Mil 0903 Piccolo-12, crypto tfc (MC)
14526.5 French Diplo 1444 TT2300b 100bd tfc (MC)
14530.2 P6Z: MFA PARIS 1654 ARQ6-90 200 weak sigs, pulses only. (RH2)
14533 MFA Paris, F 1440 ARQ-6/90 200 DE DIPL 06. (TK)
14545.5 BDF: Shanghai meteo 0904 fax 120/576 wx maps (EW)
14549.5 Unid: 0630 81-81 96bd/500 tfc (MC)
14549.7 Egyptian MFA, Cairo 1308 ARQ ATU-80 MSG acks (MC)
14552 D7A: French Embassy, Addis Ababa ETH UTC? FEC-A 192/425 w/5LG's.(ML2)
14564 Unid: 0904 81-81 81bd/250 tfc (MC)
14566.7 Italian Diplo/Mil 0630 UNID 1200bps FSK UNID System (MC)
14567 HMF32: KVNA News Pyongyang 1001 RTTY 50/425 EE nx items (EW)
14572.8 BAF: Beijing Meteo China 0540 FAX 120/576. (MS4)
14573 JANA, Tripoli: 1729 RTTY 50/400 w/RYRY & into Arabic nx items, fol by FF/EE nx. (RB)
14575 P6Z: MFA Paris, F 1414 FEC-A 192 F9S DE P6Z SUR LA280. (TK)
14578 RFFXL: Beirut UNIFIL, LBN 1615 ARQ-E 72/400 XZL to Paris. (pcG)
14584 JTF23: MFA Ulan Bator, MNG 0535 RTTY 50, various messages in Mongolian. (ANEE)
14585.5 British Mil 0911 VFT: 2ch of Piccolo-6, eng. ch idle (MC)
14585.9 British Mil 0912 VFT: 2ch of Piccolo-6, tfc ch idle (MC)
14593.3 Unid 1650 PICCOLO weak sig, Port Stanley, Falklands? RAF? (RH2) (this is reported as one of RAF Port Stanley's (Falkland Islands) MTS freqs, links w/MKK RAF London -LOGS)
14613.7 I90***: 1555 ARQ Opchat in French ends "/end" (MC)
14621.7 MFA Cairo 0935 ARQ w/tfc to consulate Getafe, Spain & Embassy? Bermuda. (ANEU)
14626.7 RFLI: French Forces, Fort de France 2117 ARQ-E3 192/345 w/Controle de voie on C.I. LIJ. (RB)
14627.7 RFLI: FF Fort de France 1315 ARQ-E3 192/363 idle. (RT2)
14638 Unid: 1152 RS-ARQ 240bd 8 tone in IRS mode (MC)
14639 KPL: Mews Laos 0957 50/425 EE nx items (EW)
14640 Unid: 1342 RTTY 75bd/850 crypto (MC)
14654.5 SPW: Warsaw R, POL 1945 ARQ tfc to ships. (pcG)
14663.5 DMK: Bonn MFA, D 1950 ARQ-E 96/170 idle. (pcG) DMK: Germna MFA, Bonn 1259 ARQ-E 96bd/170 crypto to Embassy Brasilia (MC)
14664 Russian Navy 1431 36-50 50bd/200 tfc (MC)
14694.7 Unid: 1005 UNID 360.5bd/780 UNID Packet System (acks at 301bd/780). (MC)
14718.3 RFHI: French Forces, Noumea, New Caledonia 0210 ARQ-E3 100/425 w/tfc fm 'Marine Nouvelle Caledonia' to 'batiments en zone maritime Nouvelle-Caledonia' on C.I. HIJ. (RB)
14721 6XM8: BND liaison service, D(north western Germany) 1019 ARQ-E 288/190 encrypted tfc. to Mossad Tel Aviv 'C37A' QSX 13069.5 kHz. (ANEE) 6XM8: German Intel, Germany 1344 ARQ-E 288bd/199 crypto to C37A QSX 13068.5kHz (MC)

14751.7 Egyptian Embassy 1617 ARQ 100bd/170 ATU-80 MSGs acks to MFA Cairo. (MC)
14759 Unid: 0649 RS-ARQ 240.1bd 8 tone tfc (MC)
14774.7 DOR***: Bulgarian MFA, Sofia 0938 RTTY 75bd/500 NX in Bulgarian sign-off "dor dor dor znn gb sk@@@" (MC)
14779.3 DOR***: Bulgarian MFA, Sofia 0939 RTTY 150bd/500 NX in Bulgarian (MC)
14780.7 PWX: Brazilian Navy, Rio de Janeiro, B 1310 RTTY 75/850 w/RY's, SG's to RPFN. (RB)
14781.5 Unid 1130 Strange noises! Unable decode. Listed as CJL MOSSAD, TA. (RH2)
14782 Unid: 1123 PACTOR 100bd/170 PacTOR UNID sub-mode, tfc (MC)
14786.7 MFA Cairo 1830 ARQ Embassy Berne ATU-80 msg, then message re Romanian visa approval (after checking the "list") from Cairo special security office (amn khas) and one 5l message from egi cairo (74 - sent as 47) to egi station Geneva (Geniv), (Berne probably relayed), then one ATU-80 msg to embassy abu dhabi from several internal ministries to 1945. (ANEU)
14787.5 British Mil 1650 Piccolo-12, crypto tfc (MC)
14801.9 RFVI: FN LE PORT 1220 ARQ-E3 100/400 Idling. (RH2)
14814.4 SAM45: Swedish Embassy, Ankara 1308 SWED-ARQ 100bd/400 MSGs in SS to Stockholm. SAM78: Swedish Embassy, Tunis 1209 SWED-ARQ 100bd/400 5LGs to Stockholm after "sssllllsssllll" (MC)
14817.5 JPA: Interpol Japan 0900 ARQ idled for 30 mins then off. (EW)
14821 New Delhi, Ind 1430 RTTY 50/170 w/"this is RTH New Delhi testing" RY's & foxes, what stn? (TD2) (New Delhi meteo, Regional Telecommunication Hub or RTH in WMO speak, is suspected as the ID -LOGS)
14825 DOR: MFA Sofia BUL 0800 RTTY 75/500 & IRA 300/500 signing off to Harare w/TKS DR OM ET GB 73 88 (ML2)
14840.4 HGX55: Hungarian Embassy, Algiers 0958 ARTRAC 125bd/170 MSGs in HH to HGX21 (MFA Budapest) (MC)
14852 NATO Mil 0743 PSK 2400bps UNID System (MC)
14861.3 MFA BUCHAREST 1215 RUM-FEC 164/371 unable decode. (RH2)
14863 TAD MFA Ankara 1010 FEC-A 144/850 w/nx EE & 5LG's (ML2)
14863.2 Russian Mil 1351 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
14871.7 IED22: Italian Air Force, Naquora 1324 PACKET 300bd/200 MSGs in II to IED21 "IIEY". IED21: Italian Air Force, Rome 1323 PACKET 300bd/200 MSGs in II to IED22 "IIEX" (MC)
14881 German Diplo? 0635 RS-ARQ 228.7bd/170 tfc and ALIS (MC)
14890.5 British Mil 1641 Piccolo-12, crypto (MC)
14901.7 MFA Cairo 0930 ARQ w/tfc to consulate Getafe, Spain & Embassy? Bermuda. (ANEU)
14926.7 RFTJ: French Forces, Dakar, SEN 1832 ARQ-E3 192/425 w/"non-protege" tfc. (RB)
14939.2 Russian Mil 0635 MS5 12 tone vocoder (3300Hz pilot) (MC)
14956.5 AAB4USA: Army MARS, loc? 1810 PACTOR 200/400 wkg AAT4TGA w/SHARES exercise 96-2 msg. (RB)
14957 NNN0PFX: Navy MARS, Tx 1420 ARQ w/tfc, poss related to Shares Exercise. KGD34: NCS Arlington, Va 1429 PACTOR SHARES HF mailbox, being worked by NNN0RFM during Shares Exercise. (RB)
14959.7 RFTJ: French Forces, Dakar, SEN 2233 ARQ-E3 192/425 w/controle de voie on circuit TJI. (RB)
14960.1 RFTJ: FF DAKAR 1224 ARQ-E3 192/405 w/"CdeV", then "DE RFBI" w/a "CdeV". (RH2)
14961 TAD: Turkish MFA, Ankara 0636 RS-ARQ 240.1bd 8 tone, tfc (MC)
14968.5 UTN 23: UNID RUS-NY or UKR-NY 0827 CW clg EOWS. (ANEE)
14970.4 SAM50: Swedish Enbassy, Cairo 0900 SWED-ARQ 100bd/400 MSGs in EE & SS to UNHCR Khartoum (MC)
14970.5 UNID: 0850 ARQ6-90 100/400 Scandin.lang ? (pcG)
14982.5 RBV76: TASHKENT METEO 1647 FAX 60/576 v. weak & poor signal. (RH2)
15043.5 MFA Cairo, EGY 1338 ARQ w/tfc/AA. (RH2)
15597.7 MFA Paris 0930 ARQ-E 96 w/tfc to Port-Au-Francais to 1400, new freq (up 70 khz). (ANEU)
15647.2 PCW1: Mfa Den Haag 1825 TWINPLEX 100 tfc to KWE. (BvR)
15681.7 MFA Cairo 1130 ARQ w/Islamabad. (ANEU)
15717.7 MFA Tokyo, J 1500 ARQ tfc to Lagos to 1530. (ANEU)
15729.2 Unid 1240 ARQ unlisted, v. strong pulses but nil on screen. (RH2)
15732.7 CLP1: MFA, Havana, Cuba 1659 RTTY 50/850 w/circular 1152, later

Minrex/Embacuba tfc. (RB)
15743 VNA: Hanoi 0000 RTTY 50/425 Hanoi press -Nx in FF. (MS4)
15746.7 CXR***: 1640 RTTY 75bd/1000 "vzczc zrh zrh zrh de cxr cxr cxr cinta de prueba" (MC)
15790 AOK: USN Rota, Spain UTC? FAX 120/576 weak. (LC)
15805.2 Russian Mil 1102 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
15827.1 Portuguese Navy 0839 OQPSK 7ch of 100bps OQPSK UNID System (MC)
15835.2 Unid 1640 PACTOR? listed as Mossad, Tel Aviv - CJL? What mode? (RH2)
15847 TAD: MFA Ankara 0710 FEC-A 144/850 w/5LG's (ML2)
15855.8 Unid: 1310 mode? 100/170 sounded like ARQ but wasn't! Tx but nil on screen. (RH2)
15858.5 German Embassy, Brasilia 1115 ARQ-E 96bd/170 MSGs in GG to MFA Bonn. (MC)
15861.8 Unid 1635 mode? 48/395 SAM? Is this the new mode replacing SWED-ARQ? Clues pls? (RH2) (look for possible Clover waveform -LOGS)
15861.9 RFGW: MFA PARIS 1310 FEC-A 192/360 w/over 6 pages of 5LG's. (RH2)
15867 DFZG: MFA Belgrade 1120 FEC-A 144/425 w/encrypted msgs after XJXJ. (ML2)
15900.5 British Mil 1001 Piccolo-12, crypto (MC)
15920 8WD2: MFA New Delhi 0830 RTTY 50/170 clg Yangon MYA (ML2)
15927.7 unid system 1205 1200bd FSK? Italian chat between databurst. (PB) (see 1200 FSK in the Signals FAQ -LOGS)
Italian Diplo/Mil 1255 FSK 1200bd opchat in USB voice (MC)
15942 OLZ88: Czech MFA, Prague 0929 RTTY 100bd/400 NX in Czech to various Middle Eastern Embassies (MC) OMZ88: MFA Bratislava, Slovakia 1231 RTTY 100 Slovak. (TK)
15944 OMZ88: MFA Bratislava, Slovakia 1222 RTTY 100 Slovak. (TK)
15946.5 EAE220: MFA Madrid, Spain 1548 ARQ selcall'ing TQQV. (RB)
15961.7 RFLI: French Forces, Fort de France, Martinique 1335 ARQ-E3 192/425 w/Controle de voie, C.I. BFL. At 1840 w/w/non-protege traffic on C.I. BFL. (RB)
RFLI: FF Fort de France, MRT 1320 ARQ-E3 192/363 idling. (RH2)
15969 NAA: USN, Cutler, Maine, US 1943 FAX 120/576 w/NAM Norfolk height, temp wefax chart, good. (RB)
15969.3 Unid: 1358 ARQ 100/425 idling in receive mode. (RB)
15969.5 FUB: FN Paris 0850 RTTY 50/850 clg FAAZ & then to crypto (ML2)
15991.5 Indonesian Emb Cairo 1020 ARQ-S 96/170 5 characters w/5LG's (ML2)
16006.7 Unid 1318 ARQ prob MFA Cairo w/distinctive Egy Diplo tfc/AA. (RH2)
16018.7 Egyptian MFA, Cairo 0958 ARQ Calling selcal "TVXY" (Embassy Muscat). (MC)
16025 BAF9: Beijing meteo 0649 fax 120/576 wx maps. (EW)
16059 V5G***: Romanian MFA, Bucharest 0902 ROU-FEC 164.5bd/400 Circulars in RR to all embassies (MC)
16061.7 Hungarian Diplo? 0842 UNID 250bd/850 UNID ARQ System (MC)
16073.9 LJA30: Norwegian MFA, Oslo 0928 ARQ 100bd/400 NX in NN to various embassies mkd "n o r e g" (MC)
16087.7 RFVI: FF Le Port Reunion 0443 ARQ-E3 100/425 idle. (EW) RFVI: French Forces, Le Port, Reunion Isl 1638 ARQ-E3 100/400 w/Controle de Voie on circuit REI. (RB) RFVI: FF Le Port, Jibuti 1218 ARQ-E3 100 Controle de voie. (TK)
16103.9 LJA30: Norwegian MFA, Oslo 0950 TWINPLEX-1w 100bd/400 NX in NN to Bangkok and New Delhi (MC)
16106.9 Unid: 1554 mode? on MFA Stockholm freq but not SWED-ARQ, like E3/192? (RH2) (look for Clover waveform -LOGS)
16107 SAM: Swedish MFA, Stockholm 1055 SWED-ARQ 100bd/400 NX in Swedish to all embassies (MC)
16109 SNN299: Polish MFA, Warsaw 1505 POL-ARQ 100bd/250 MSGs in PP to embassies (MC)
16111 HBD20/3: Swiss MFA, Berne 1055 ARQ 5LGs (MC)
16118 Unid station 1656 ARQ w/5LG's. (JM) (probably Swiss Embassy, Havana, Cuba, hrd here before -LOGS) HBD46: Swiss Embassy, Havana, Cuba 1645 ARQ w/5LG's to unid location, ID "HBD46". (RB)
16162.7 Egyptian E, Nouakchott 1138 ARQ ATU-80 MSGs to MFA Cairo mkd "jg yphkg glkwzlc" (MC)
16165.2 MFA Paris (NOT MOD!) 1530 ARQ-M2 200 5l tfc to unid embassy. (ANEU)
16195 German Diplo? 1347 RS-ARQ 240.1bd 7 tone, tfc (MC)
16227.7 unid 0925 ARQ-E 96/395 idling [RFFXI Bangui is normally 16226.5 ARQ-E 72/400] (PB) UNID: 1650 ARQ-E 96/400 idle. (pcG)

16227.8 Unid 1215 SI-ARQ 96/404 unlisted, good tune to S4 but gbge on screen. (RH2)
16239.5 Unid 1415 RTTY 50/425 message in malay ?(zagan zenseigen). (MS4)
16245 TJN: French Emb Beijing 0820 FEC-A 192/850 w/5LG's (ML2)
16260.1 RFGW: MFA PARIS 1457 FEC-A 192/388 w/465 5LG to "AFZCS"? (RH2)
16277 DoSC Moskva, RUS 1005 F7B-40/10 32-tones, 5LGs to unlocated station on link 80050. (ANEE) (mode is Crowd 36 right? -LOGS)
16277.9 Unid 1708 RTTY? 72/388 tuned RTTY, could be ARQ-E try fm FF BANGUI/GOMA. (RH2)
16280.3 RFFA: MoD Paris, F 1545 ARQ-M2 200/342 w/both channels idle. (RB)
16286.7 PAK-EMB Ankara, TUR 1010 ARQ 5LGs to Islamabad. (ANEE)
16286.7 Unid: 1000 TWINPLEX-4 100 unid very weak to 1030. (ANEU)
16305 SOUD Station 0947 RTTY 75bd/500 5LGs on link-ID " " (MC)
16312.5 C37A: Mossad/BND link 1328 ARQ-E 8crc 288/334 encrypted tfc. (PB) C37A: MOSSAD, TEL AVIV, ISR 1329 ARQ-E 288/400 sadly M7000 can't reach 288 baud! (RH2)
16318.8 MFA CAIRO, EGY 1342 ARQ w/tfc/AA. (RH2)
16322.7 Egyptian Embassy 1506 ARQ ATU-80 MSG to MFA Cairo (MC)
16352 UNID RUS-NY station, RUS 0819 RTTY 50/250 136 bit correlation UNID system. (ANEE)
16355 CLP4???: Cuban Embassy, Bissau 1833 RTTY 50bd/500 MSGs in SS signed "jacinto 269 embacuba bissau" (MC)
16372 8WB4: Indian Embassy, Teheran 1439 RTTY 50bd/400 "now is the time... 8wd7 de 8wb4" calling MFA Delhi (MC)
16386.7 Pakistani Embassy, Ankara, Turkey 1454 ARQ Embassy Messages to MFA Islamabad. (TK)
16387 Parep New Delhi 1225 ARQ to MFA Islamabad, Parep Washington, Paris, London, Brussels, Bonn -message in clear about western hostages held in Kashmir. (MS4)
16616.5 9HBX4: M/V Adventure I 1415 ARQ w/noon posn report for EMM Athens, selcall 63363. (TD2)
16619 9HSG4?: M/V Pretty Lady 1245 CW w/derust, paint, progress report. (TD2)
16683.5 P3QA3: M/T Liepaya 2229 ARQ 12,081 DWT tanker (Latvian Shpg Co), w/tlx tfc, login 00643 LIEP. (RB)
16685.5 SZMW: Paraskevi M.Y. 1640 ARQ tfc for Transmarine, Long Beach, selcall 16715. (AB2)
16687.5 CCES: Esmeralda 2302 ARQ tfc in SS, I last logged her in the 80's. (AB2) (thanks for the callsign! -LOGS)
16688.5 BOPT: M/V Hua Tuo 1525 ARQ wkg WLO w/ETA Salvador. (TD2)
16691.5 PPWF: M/V Libra 1005 ARQ wkg Singapore w/tfc for Piraeus. (TD2)
16713 9HKR4: Mv Atlas 0921 ARQ pos 33.11n 026.47e tlx to Navitech New York. (BvR)
16715 9HLS4?: M/V Anthia 1510 ARQ req test of new GMDSS console, maritex ID 29721. (TD2)
16722 URQL: FISH CARRIER CHERNOE MORE 1902 RTTY 50/170 w/crew TG'S. (DW2)
16728.5 GXIC: M/V Pegasus Bay 0842 ARQ w/queries for Globe Wireless. (TD2)
16797.5 LYEB: SOVSHIP "RTMS MALTA" 1037 RTTY 50/170 w/K'Grad. (RH2)
16797.5 ULGX: SOVSHIP "TR TOKAREVSK" 1202 RTTY 50/170 w/Vladivostok. (RH2)
16800.1 PNA MANILA 1110 FEC W NX/EE, mostly about "pork barrel issue"?? (RH2) (this is usually a Filipino crew ship relaying nx fm Manila Radio -LOGS)
16801.1 UASU: SOVSHIP "SMB PORQA" 1152 RTTY 50/170 w/Murmansk. (RH2) (this is Purga in ITU -LOGS)
16803 UIIE: TKH Vilyam Foster 2027 RTTY 50/170 13150 DWT dry cargo ship (Baltic shpg), w/admin msgs (SPB/BMP) from master KM Tofank, vsl bound Port of Tampa, poss name chg to Ulan Foster, as U Foster used in each msg. (RB)
16808 SPA: Gdynia Radio, POL 1450 FEC w/long Pol msg w/mention of Toulon & other ports. (TD2)
16809.5 EAD: Madrid radio 0906 FEC tfc lst. (BvR)
16813 UAT: Moscow radio 0733 ARQ msgs to ships in RR. (EW)
16826 ESA: TALLIN RADIO 1115 FEC Press to Estonian ships in 3sc. Bdcast //12593 (DW) ESA: TALLINN RADIO 1532 FEC msgs to ESAQ: ML PAKRI & ESOM: ML ELMAR KIVISTIK. (HOOD)
16834 CUL: Lisbon radio 0837 FEC tfc lst. (BvR)
16838 SAB: GOETEBORG RADIO 1014 ARQ tfc to TCIH: M/V OCEAN TRANSPORTER. (HOOD)

16839.5 UFN: Novorossiysk Radio 0702 ARQ tlx tfc. (BvR)
UFN: NOVOROSSIYSK RADIO 1821 ARQ crew TGs to UPSQ: TK VLADIMIR KOKKINAKI from Tuapse and Novorossiysk. (HOOD)
16851 UON: BAKU RADIO 1019 CW tfc to 4JGZ: BESTEKAR FIKRET AMIROV. Vsl is ex KOMPOZITOR GLINKA, UPMX). (HOOD)
16883 OST: OSTENDE R 1319 FEC re new Fax facilities for ship/shore sigs. (RH2)
16892 XSG: SHANGHAI R 1440 ARQ w/CW/ARQ marker. (RH2)
16893 USU: Mariupol Radio 0820 ARQ tlx tfc to UYSL, 3650 usu. (BvR)
16898.5 UAT: Moscow Radio 0832 ARQ tlx tfc. (BvR) UAT: Moscow Radio, RUS 0400 FEC de uat radio-Moscow-- operating freq. + tfc list. (MS4)
16905 FUV: Djibouti 0500 RTTY 75/425 test tape-- de fuv ryryryry. (MS4)
FUV: FN JIBOUTI 1314 RTTY 75/825 w/"VVV DE FUV" marker. (RH2)
16908.3 TAD: MFA ANKARA 1433 FEC-A 144/850 idling. (RH2)
16927 UIW: KALININGRAD RADIO 1102 RTTY 50/170 tfc for UAUN: NIS AKADEMIK IOFFE. Same 1724 RTTY 50/170 tfc to UALY: RTMS ZVEZDA for Km Gavrilenko. (vsl is ex URRD). (HOOD)
16951.9 6WW: FN DAKAR 1310 RTTY 75/826 w/RY'S/le brick/ID, etc. (RH2)
16955 YLQ: Riga Radio, Latvia 1515 ARQ w/sitor free signal & "YLQ AUTO SCAN" in CW. (RB) UDH: RIGA R. 1250 ARQ w/MV Fyodors Bredeihins re new sulzer diesel. (RH2) (UDH now YLQ -LOGS)
16958 FUJ: Fr Navy New Caledonia 0503 RTTY 75/850 ry line count. (EW)
17036 Unid 0505 50/850 unknown system. (EW)
17108 GYU: RN Gibraltar 1036 RTTY 75/850 testing 'the quick...' (PB)
17141.5 USU: Mariupol Radio, UKR 1503 RTTY 50/170 w/'rajone' regional warnings fol by Mariupol Morflot tfc, poss to collective calls. (RB)
17147 URL: SEVASTOPOL RADIO 1118 CW crew TGs to UZVX: MYS SARYCH (ex UJDC) & UYKO: INKERMAN (ex MYS KHRUSTALNYY, UNLY). Both vsls are fishing fleet replenishment tankers for the YUGRYBA fleet. (HOOD)
17185.7 YLQ: Riga Radio 1020 RTTY 50/150 msgs to unid tanker (PB)
17417 UNID 1225 SWED-ARQ 100/399 unlisted, sounds SWED-ARQ but nil on screen?? (RH2)
17421.5 MFA Rome 0840 ARQ w/5LG's (ML2)
17422.2 ZIM 1229 RTTY 50/497 embacuba Harare w/east & south African nx/SS. (RH2)
17422.7 Italian Diplo/Mil 1004 UNID 1200bps FSK UNID System (MC)
17430 9VF209: Singapore 1500 FAX 60/576 KYODO press in JJ. (JD2)
17454 Russian DIplo 0954 CROWD-36 tfc (MC)
17524 PHWR: Hickam AFB Hawaii 0510 RTTY 75/850 wx reports. (EW)
17573 AJO: USAF Adana, TUR 1241 LSB as part of VFT circuit to AJE USAF Croughton. (ANEE)
18002 Hanoi Meteo VTN 0720 FAX 120/576 w/850 hPa analysis chart for SE Asia (ML2)
18005.7 Egyptian MFA, Cairo 1356 ARQ 100bd/170 ATU-80 MSGs to selcal "KKXT" (Embassy Nairobi) (MC)
18023.1 ZRH: SAN SIMONSTOWN 1302 RTTY 75/156 w/RY'S/foxes/1-10 count & INR ZBZ etc. (RH2)
18029.1 ZAIRE BANK CIRCUIT 1202 RTTY 48/175 tfc/FF to various banks. (RH2)
18042 MSF Mazar, Afghanistan 0930 ARQ wkg MSF HQ Brussels (selcall mzgb) w/admin msgs to 1100. (ANEU)
18048 ZRX: SAN ? Cape Town AFS 0620 RTTY 75/170 clg FUX (ML2)
18180.7 7RQ20: Algerian MFA, Algiers 1257 Coquelet-8 26.7bd NX to Harare, Dar Es Salaam and Bamako in FF (MC)
18220 JMH: 0540 FAX 120/576 axfee 78 chart. (MS4)
18245 FUX: FN Le Port REU 0700 RTTY 75/850 clg ZRX w/ INT ZBV INT QRV. (ML2)
18250 SOUD station 0937 RTTY 75/496 5Lgs 11177 (PB)
18251.7 Egyptian Embassy 1510 ARQ ATU-80 to MFA Cairo (MC)
18265 XVN48 VNA News Hanoi Vietnam 0514 50/425 nx in FF. (EW)
18268.1 HBD20/5: MFA BERNE, SUI 0928 ARQ w/gillions of 5LG'S, will take some decoding! (RH2)
18269 HBD20/1: Swiss MFA, Berne 1149 ARQ Mailbox access by various embassies (MC)
18270.5 HBD20/5: Swiss MFA, Berne 0946 ARQ 5LGs (MC)
18278 IWB3: Luska Air 0915 RTTY 50/425 test tape de iwb3 ryryry. (MS4)
18315 VHC: RAN Belconnen AUS 0736 PICCOLO w/svce msg to GFH (ML2)
18316 OMS: MFA Bratislava 0927 RTTY 100/395 nx (slovenska republika) (PB)
Unid 1135 RTTY 100/389 unlisted, nx in some East European lingo;

Clues? On another day on 18316.2 at 0923 RTTY 100/444, looked like nx in Czech. (RH2) (see prior log -LOGS)
18372 Unid 0512 75/850 unknown system. (EW)
18380.4 RFFMVD: Celenv Toulouse, F 1155 ARQ-E3 100/395 to Marine la Reunion (RFVICE). RFFTB: AIR COMGEND PAGEND PARIS, F 1212 ARQ-E3 100/395 to AIG2265 RFFYFS CENTISGEN. (RH2)
18411.5 MFA Jakarta 0530 SI-FEC 96b w/5LG's to Washington, Baghdad via DEPLU. (TK)
18420 MFA Prague 0830 ARQ-IRA 300 wkg Embassy Baghdad to 0915, normally sked around 1300-1330. (ANEU)
18441.3 JMJ5: Tokyo meteo, J 1143 FAX 120/576 poor signal. (RH2)
18487.9 LJA30: Norwegian MFA, Olso 1133 TWINPLEX-1w 100bd/400 MSGs in NN to Embassy Dar Es Salaam (MC)
18496.1 CNM80/X11: MAP News, Rabat 1508 RTTY 50bd/400 NX in Arabic (MC)
18498.7 Egyptian Embassy 1023 ARQ in IRS mode (MC)
18513.9 OZU25: Danish MFA, Copenhagen 1135 TWINPLEX-1w 100bd/400 Clg selcal "TPRQ" (no answer) (MC)
18560 BMF: Taipei Meteo TAI 0050 FAX 120/576 w/schedule; 0450 test chart (ML2)
18597.5 MFA Madrid 0915 TWINPLEX 100 wkg Embassy London to 0930. (ANEU) MFA Madrid, E 1135 TWINPLEX unable to decode. (RH2)
18598 Unid 0530 100/850 unknown system. (EW)
18667.9 Egyptian Embassy, Madrid 1316 ARQ ATU-80 passport details to MFA Cairo (MC)
18712 BZR: Xin Hua, CHN 0945 RTTY 75/425 press -Nx in EE. (MS4)
18741 MFA Moscow 0709 crowd 36 encrypted (EW)
18796.6 Indonesian MFA, Djakarta 1303 RTTY 50bd/400 MSGs in II to many embassies signed "deplu jakarta" (MC)
18801.6 Indonesian MFA, Djakarta 1046 RTTY 50bd/400 MSGs relayed from Embassy New Delhi (MC)
18845 'SPK' Unknown RR Diplo station 1608 RTTY 50/554. Call up followed by 10 groups in 2 messages of 5 lgs. Link 000168. (PS)
18872.3 BZR58: XNA BEIJING 1243 RTTY 75/379 w/nx in EE. (RH2)
18912 TAD??: Turkish Embassy, Lagos 1459 FEC-100 144bd/850 MSGs in TT to MFA Ankara (MC)
18943.7 Unid: 1514 COQUELET Listed WUN logs as Algerian Emb, DAR-ES-SALAAM. (RH2)
19031.7 MFA Islamabad 1000 f7b-1 100 wkg Embassy Algiers to 1200. (ANEU)
19065.3 DOR2: MFA Sofia 0831 RTTY 150/490 5Fgs to posta Stokholm, Helzinki then nx in EE and Bulgarian to many embassies (BTA) (PB)
19108.9 Norwegian/Danish Diplo 1157 TWINPLEX-1w 100bd/400 ends "nnnn" (MC)
19216.7 RFLI: FF Fort de France 1450 ARQ-E3 96/400 lots qrn. (RT2)
19231.7 MFA Cairo 0533 ARQ msg in arabic. (EW)
19237 German Diplo? 1258 RS-ARQ 228.5bd/170 tfc (MC)
19309.6 HCBDIBU***: UNHCR, Bujumbura 1317 PACTOR-U 100bd/200 MSGs in FF to HCSWIGE (UNHCR HQ, Geneva) (MC)
19313 HCSWIGE***: UNHCR, Geneva 1521 PACTOR-U 200bd/200 MSGs in EE to Ethiopia (MC)
19356.8 Nigerian Embassy, Kinshasa 1350 FEC-100 96bd/700 5LGs and opchat in EE to MFA Lagos. Nigerian MFA, Lagos 1345 FEC-100 96bd/850 Opchat in EE to Kinshasa signed "foreign bgy" (MC)
19365.3 DOR2: MFA Sofia 0829 RTTY 150/490 ry's + ID, zal 19065 and go to that freq. (PB)
19400 VVD69: Delhi meteo 0718 50/170 wx reports.(EW) VVD: Delhi Meteo, India 1100 RTTY 50/170 wx code. (MS4)
19519.1 Unid: 1125 mode? 75/142 unable to decode. (RH2)
19693 UGC: St. Petersburg Radio 0822 ARQ w/CW-marker (PB)
19807.9 Danish/Norwegian E 1234 TWINPLEX-1w 100bd/400 ends "ar ar ar" (MC)
20475 GYU: Royal Navy, Gibraltar 1456 RTTY 75bd/850 "de gyu test tape the quick brown fox..." (MC)
20600 MKK: RAF London 0800 RTTY 75/850 ry's ended w/vmgtcnjbh (PB)
20933.5 SOV293B: PAP News, Warsaw 1400 FEC Polish NX in SBRS mode (MC)
20950 Unid 1120 ARQ-E? 192/170 lotsa noise but nil on screen! (RH2)
21807.5 YOV28: ROMPRES Bucharest 0750 RTTY 50/510 nx in EE (PB)
22861.5 Unid: 1404 RTTY 100/850 w/5LG's being sent. (RB)

=MARITIME=

2055 Unid 1252 USB Scottish voices using very strong language. Any

ideas.Is this an Intership freq moved from 2056. (AO) (usually fisherman -LOGS)
2182 VAU: Yarmouth CG Radio, NS, CAN 0540 USB w/ann, for MIB "listen 2749". (RB)
2311 Arklow Venturer 2229 USB bound Dublin, talking to sister ship off Latvia. This freq is used by Arklow Shipping (on Irish East Coast) to call their entire fleet at 0715, 1115, 1515 & 1915z daily. (AO)
3000 Dutch Fisherman 2035 USB posn rep. in Dutch. (PB)
4032 Maritime 2145 USB Illegal maritime net in greek. (CK)
4098 3FKM5: Cruise Ship- Leeward 0149 USB Wkg WOM. (IB)
4149 ZMH253: 0715 USB NZ fishing boat net wkg various boats. (AB3)
4275 HPP: Panama Radio 0810 CW Mkr (AB3)
4285 VCS: Halifax CG 0815 CW mkr (AB3)
4294 WNU: Slidell Radio 0820 CW mkr (AB3)
4328 FFL2: ST LYS RADIO 0649 CW To ship UBQX "up" then accepting tfc (DW)
4343 SVA2: ATHENS RADIO 1901 CW Greek ship press at 22wpm. (DW)
4417 ZLM: Taupo radio 0820 USB w/wx details to "Lana". (AW)
6215 Unid vsl 0822 USB clg PJY Bora Bora, no joy. (AW)
6286.5 UHQC: TKH LADOGA 108 1944 CW admin from Km Gorelov to UCW4. UANO: TKH BALTIYSKIY 107 1950 CW svc msg from R/Off Kazakov to UCW4. Vsl is ex UKJO. (HOOD)
6287 UIAD: ALTAY 2127 CW factory trawler (Murmansk Trawling Fleet) clg UDK2 - no joy. (HOOD)
6341.5 YLQ: RIGA RADIO 1936 CW ID & tfc list w/freqs as 6341.5/12672.5/17181 and ARQ 2460/8432/16955. (HOOD)
6380 UCW4: ST PETERSBURG RADIO 1803 CW tfc to UAOA: TKH LADOGA 1 (ex EMXM) & USBE: TKH SORMOVSKIY 3003 -both sea-river cargo vsls of North West Shipping Co. (HOOD)
6383 UBF5: ST PETERSBURG RADIO 0705 CW nav wngs (PRIPS) in Russian, for Baltic Sea. (HOOD)
6405 ESA: TALLINN RADIO 2101 CW tfc list and freqs as 450/454, 4285/4185.5, 6485/6279.5 & 12723/12553. (HOOD)
6465 UIW: KALININGRAD RADIO 2210 CW relaying crew TG to UFJI: AKADEMIK MSTISLAV KELDYSH from Novorossiysk. (HOOD)
6507 VID: Darwin radio 0830 USB w/long wx bulletin. (AW)
LPL: General Pacheco Radio, ARG 1340 USB pp in SS. (CG2)
VIS: SYDNEY RADIO 0737 USB w/tfc list (4 ships) & wx forecast from the Forecast Center (?) Brisbane. (DW2)
6510 XSO: Gungzhou radio, CHN 0920 USB Voice mirror in CC. (AW)
6519 VIP: Perth radio 0703 USB giving pp to unid vsl. (AW)
8198 ZMSL: unid UTC? USB wkg VIS, Sydney Radio att R/T tfc to New Zealand. (RA)
8207 3EWJ9: CARNIVAL CRUISE LINES CRUISE SHIP IMAGINATION 0450 USB clg unid shore station, no joy. (DW2) (WOM here -LOGS)
8225 3EWJ9: MV IMAGINATION 0452 USB clg WOO. (DW2)
8234 3FDQ6 Evangelize?? 2234 USB Wkg WOM. (IB)
8240 GBBE: HMS Edinburgh 1933 USB Clg Portishead. (IB)
8252 SZUE: MV OINOUSSAN NAVIGATOR 0400 USB clg Athens Radio. SYAO: MV OLYMPIC FAITH 0402 USB clg Athens Radio. (DW2)
8255 J8FE8: TANKER PAMPERO 0431 USB clg Rogaland Radio, no joy. VRSV: MV EL DORADO 0615 USB clg Doha Radio, no joy. (DW2)
8267 C6LG5: Dreamward 2220 USB Wkg WOM. Clear. (IB)
8279 SYXB: MV POLYKRATIS 2227 USB wkg WLO for R/T tfc. (DW2)
8288 9HML3: MV CRIMSON KING 0111 USB wkg Doha Radio re R/T tfc to Delhi, India. (DW2)
8294 WBN6511: GAUNTLET 0508 USB clg Jacksonville. WBN5040: PIONEER 0538 USB wkg Jacksonville, QTH: 3515N 07316.45W, course 215, speed 9.1, ETA 291800. WBN6511: GAUNTLET 0541 USB wkg WBN5040: PIONEER, w/chat re voyage & third ship named GLADIATOR. (DW2) (all are Crowley Tug's wkg WPE Jacksonville -LOGS) WYP4486: UNID TUG 0102 USB OM/EE wkg WPE, off Stock (?) 1415, sea buoy at 1705. (DW2)
8297 WBN7339: ? CALIFORNIA 0356 USB wkg WBE4858 ? OREGON. Unable to get first word of each ID. (DW2)
8346 UWKU: TKH CHALA 0650 CW msgs to "RDO PTRZ" via UBO3 from Km Paskabhev & from radio officer to TKH NEFTERUDOVOZ 47 (UOYA) to arrange QSO on 4234 or 6224. (HOOD)
8347 9HSQ3: M/V KORDUN 0707 CW msg for Genoa. (HOOD)
8363 UYXP: TKH NADEZHDA 1804 CW msg to UBF2. This is a sea-river cargo

vsl, c/s was changed by ITU to UAWB but still using old call. (HOOD)
8367.5 6LHY: 77 Gae Yang 1159 CW tfc. (AB2)
8471 ZSC: Cape Town Radio 0930 CW w/wx fcst coastal/highseas. (TD2)
8495.5 CLA: HAVANA RADIO 0228 CW w/tfc list. (DW2)
8500 UON: BAKU RADIO 1818 CW tfc to 4JIM: TKH MUGAN (ex UVEM, BERDY KERBABAYEV). (HOOD)
8515 5AT: TRIPOLI RADIO 1826 CW Marker "vvv cq de 5AT" (DW).
8542 PKX: Jakarta R, INS 1627 CW cq mkr. (pcG)
8570 UBO3: PETROZAVODSK RADIO 1415 CW tfc to UBXC: TKH VOLGO-BALT 150 and UNPD: TKH VOLGO-BALT 203. (HOOD)
8687 SVA4: ATHENS RADIO 1204 CW QTC list. At 1843 CW Marker "de SVA press as" then press in Greek at 22wpm. (DW)
8691 XST: Qingdao radio 1205 CW mkr (AB3)
8705 PKC: Palembang Indonesia 1159 CW mkr (AB3)
8706 JOS: NAGASAKI RADIO 2115 CW Marker "cq de JOS qsx 8 mhz k". Wkg unid ship - qru's. (DW)
8740 OXZ: Lyngby Radio, DEN 0107 USB w/voice marker, musical notes, YL w/"This is Lyngby Radio" in EE (new one for me). (RB)
8749 VIM: Melbourne radio 0205 USB general call to all ships. (AW)
8803 OHG: HELSINKI RADIO 1825 USB w/pp tfc w/UFHK: TKH IVAN KOLYSHKIN, s/r cargo vsl of the United Volga Shipping Co. (HOOD)
12447 UGWE: TKH AMUR 2506 0657 CW admin from Km Vlasov to UBO3. (HOOD)
12474 ENXX: TKH NEFTERUDOVOZ 9 1452 CW crew TGs to Samara using abbrev name "NRV 9". (HOOD)
12673.5 CLA33: HAVANA RADIO 2245 CW Marker "CQ de CLA c/3 8368/12552/16736 qsw CLA 20/32/41/50 mhz qrj c/1221 k". (DW)
12712.1 HLW3: Seoul Radio 1847 CW cq de HLW3 qsx 12 mhz (PB)
12723 ESA: Tallinn Radio 1837 CW tfc list (PB)
12765 UCW4: ST PETERSBURG RADIO 0654 CW msg to UANK: TKH VOLGA 4008 (is ex UKIP). (HOOD)
12833 SVA5: ATHENS RADIO 1853 CW Greek ship press. 22wpm. (DW)
12923 HLW2: Seoul Radio 1737 CW cq de HLW2 qsx 12 mhz (PB)
12925 RFA: ASTRAKHAN RADIO 1448 CW tfc to UAET: TKH ST-1335. Stations signs as RFA/RVD. (HOOD)
12931 JYO: Aqaba Radio Jordan 1554 CW cq de JYO qsx 8/12 gcc 9 3 4 k (PB)
12935 HLG: Seoul Radio 1544 CW cq de HLG qsx 12 mhz (PB)
12943 HLO: Seoul Radio 1752 CW cq de HLO qsx 12 mhz (PB)
12965 USO5: IZMAIL RADIO 1625 CW crew TGs to UYTG: TKH REUTOV & UVRA: TKH RYSHKANY. Both are cargo vsls of the Ukrainian-Danube Shipping Co. (HOOD)
12966.5 A7D: Doha R, QAT 1528 CW "de a7d" mkr. (pcG)
12997.5 UUI: ODESSA RADIO 1810 CW listening for wx rpts, wkg freqs as 8643.5/8356.5, 13041/12439.5, & 16947/16668.5. (HOOD)
13041 UUI: ODESSA RADIO 0746 CW tfc to ELSS7: TKH KAPITAN FOMENKO. Vsl is ex EMAS & ex UBQM. (HOOD)
13055 UTQ7: Kiev R, UKR 1518 CW cq mkr. (pcG)
13062 CLA: Havana Radio, Cuba 1805 CW w/CQ/QSX marker. (RB)
13089 NMC: CAMSPAC Point Reyes, Ca, US 1630 USB w/ann, start of high seas forecast//8764//17314. (RB)
13185 4XO: HAIFA RADIO 1820 USB wkg M/V ZIM AFRICA for pp. (HOOD)
16363 GRCE: Nicholas M 2117 USB Wkg Portishead. (IB)
16507 Unid operator 0130 USB in slav language, long shipping list. (AW)
16522 Manila radio 0450 USB contacting Cyprus for pp. (AW)
16531 Bulacan radio PHL 0233 USB giving pp to unid vsl. (AW)
16540 Mindanao radio PHL 0315 USB clg "Parekoi" for radio check. (AW)
16558 Bali radio 0135 USB w/pp for unid vsl. (AW)
16619 9HSG4?: M/V Pretty Lady 1245 CW w/derust, paint, progress report. (TD2)
16619 ULSU/UIAD RR vsls 1420 CW wkg Murmansk w/"UDK2 DE ULSU"/UDK2 DE UIAD. (TD2)
16620.7 YQRJ: M/C Histria Pride 1420 CW w/crew TG. (TD2)
16851 UON: BAKU RADIO 1019 CW tfc to 4JGZ: BESTEKAR FIKRET AMIROV. Vsl is ex KOMPOZITOR GLINKA, UPMX). (HOOD)
16904 UQK: RIGA FISHERIES RADIO 1545 CW ID and QSX 8368.5/12552.5/16736. Collective call is 4LN. (HOOD)
16922.6 OFJ: Helsinki Radio, FINLAND 2015 CW marker "OFJ QSX 12 MHZ K". (CG2)
17094.8 SVA6: ATHENS RADIO 1200 CW Marker "de SVA qtc list as" then list. At 1857 Greek ship press at 22wpm. (DW)

17135 UTQ7: KIEV RADIO 1114 CW ID marker and QSX 8341/12436/16639. (HOOD)
17147 URL: SEVASTOPOL RADIO 1118 CW crew TGs to UZVX: MYS SARYCH (ex UJDC) & UYKO: INKERMAN (ex MYS KHRUSTALNYY, UNLY). Both vsls are fishing fleet replenishment tankers for the YUGRYBA fleet. (HOOD)
17163.7 ZSC: Cape Town Radio 1711 CW 'cq de ZSC' (PB)
17198.9 PCH60: Scheveningen Radio, Netherlands 1500 CW marker "DE PCH60 (wait)". (CG2)
17213.9 SPH81: Gdynia Radio 1009 CW qsx 12 and 16 MHz (PB)
17284 CUL: Lisbon Radio, POR 1955 USB pp in Portuguese. (CG2)
17287 DAJ: Norddeich Rdo, GER 1621 USB wkg unid vsl in EE, req he QSY to Ch. 1639, then in response to vsl passes both freqs "you listen 17356, you transmit 16474". (RB)
17332 SPC82: Gdynia Radio, POL 1644 USB wkg unid vsl in EE "this is Gdynia radio", then confirms number passed is in the Ukraine. (RB)
18991.9 SPW: Warsaw Radio 0915 CW de SPW qsx 16799 (PB)
18993.5 SPW: Warsaw radio 0712 cw station marker (EW)

=MILITARY=

2576 NATO Northern Lights & Bright Horizon exercise 2130 USB to the north of the UK. (PJ3)
2815 IDR8: Italian Navy, Rome, I 2043 CW v mkr. (pcG)
3143 BACKBITE 0553 USB wkg NIGHTWATCH 01, w/this freq found to be ZULU 115. (JH)
3360 TBH3: unid Turkish Navy station 1910 CW marker. (CK) (reported as Golcuk -LOGS)
3772 P: Channelmarker 'P' Kaliningrad 2244 CW & encrypted tfc in CW.(PB)
3885 AIRCENT Off-shore coordination freq 0930 USB active with several NAVY-Units wkg GALLEY (USAFE 606ACS on dep. in Denmark) & WINDSHIELD (ICAOC 1 Finderup Denmark). (GD3)
3900 NATO AWACS MAGIC HF communications network UTC? USB. (GD3)
4000 Navy link-coordination UTC? Mode? (UK). (TF)
4035 AAT5MR: USAF MARS 1640 LSB w/USAF MARS traffic net. (RB)
4110 C2M (UK-accent) UTC? USB on this freq, off-shore coordination freq for Norwegian CRC SCEPTIC. (GD3)
4145.5 DELTA-6-KILO wkg ZULU-0-YANKEE & many others. Coordinating fire control & data traffic. EXERCISE UNITAS? USN/USMC type chatter. (JJ)
4154.5 DRAK: Mecklenburg-Vorpommern 0600 USB Wkg DHJ59. DRAI: Schleswig-Holstein 2136 USB Wkg DHJ59. (IB)
4260 TBA2: Ankara Naval, TURKEY 0050 CW marker "vvv vvv vvv E TBA/2/3/5 T 13 A". (CG2)
4472 RAF TLOG 0655 USB wkg MOLASSES. "Roger BRAVO BRAVO. This is CHARLIE WHISKEY". NIGHTWATCH 01 0952 USB wkg WAR46 for a signal check. At 1100z, NIGHTWATCH 01 wkg WAR46 for a signal check. NIGHTWATCH 01 0518 USB wkg WORKOUT. (JH) NIGHTWATCH 01 0100 USB wkg WAR 46 & others. (JJ)
4495 RAREFIND 0640 USB wkg NIGHTWATCH 01. THEOLOGY 0629 USB wkg NIGHTWATCH 01 & entered the net. This freq was set as THEOLOGY's primary freq. NIGHTWATCH 01 0521 USB wkg WORKOUT. NIGHTWATCH 01 also adv WORKOUT that RAMSHEAD & PORTABLE were in the net, but he has had negative comms w/them over the past 4 hours. (In other words, they are long gone.) NIGHTWATCH 01 0556 USB wkg BACKBITE, & made this freq BACKBITE's primary net freq. No other players in the net. At 0928z, NIGHTWATCH 01 clg BACKBITE, with no response. (JH)
4601 RED THUNDER 64: 8, Ohio CAP 2226 USB wkg unid RED THUNDER c/s, then adv "back to primary" (note chg from BLACKHAWK). (RB)
4604 BLUE MOUND 556: Wisconsin CAP 1333 USB closing the net. RED THUNDER 648, Ohio CAP 2234 USB as NCS of the Ohio Wing HF Net, w/ann of exercise to take place Sept.13 2300z on 4582, then closes net at 2236. (RB)
4627 WILDWOOD 26: Arkansas CAP, NCS 0050 USB w/3rd call for Arkansas net check in, ann is monitoring the freq, bad QRM from a Link-11 signal nearby. (RB)
4703 Danish Airforce, Aalburg UTC? USB. (GD3)
4703.5 (Ch. M72) is in use by Ground Stations wkg w/an EC-135 operating from Mildenhall. Other freq used is 15018.5 and a freq starting w/90..! Callsigns including: MIND SPY, MYSTERY SHIP, CLEAN TABLE, PINK TIGER. For WUN'ers in NW-Europe the EC135 is also on 389.5 (DL) & 324.0 (UL) in WFM, callword MASTERPIECE has a DSN-number starting with 433 which

is USEUCOM HQ EUCOM. MINT SPY 1300 USB giving flash traffic an 89 items EAM which was starting with "XXOLXYMO...XXOLXYMO.. stand by message follows..XXOLXYMO etc....", probable EC-135 a/c. (GD3)
4730 MKL: RAF 1900 CW aero meteo. (CK)
4742 RAF 0931 USB Voice reading out different airfields e.g. Leon-White, Palermo-White. Ascot 5406 0934 USB clg Architect (Selcal AJ-FM). (AO) CWL: 1830 USB wkg Architect who reported monitoring 4540 but heard nothing from them. ASCOT 4912: 0930 USB wkg Architect, enrt EGYC to LIED, selcal ck AK-DM. ASCOT 5490: 0931 USB wkg Architect, enrt Lyneham to LFSD. selcal ck AH-KL. ASCOT 4154: 0945 USB wkg Architect, failed selcal ck AK-CJ, said they would re-contact when in air. GOLD 84: 1440 USB wkg Architect w/ selcal ck AK-BD. (CH) ASCOT 5448 2210 USB RAF C-130 "XV-202", selcal AJ-DE, wkg "Architect", on its way to LTAG. M-17: 2110 CW 20 5FG's for id 66323. (CK) CWL86 1444 USB Req pp to Cranwell 6166. ARGUS ONE 1445 USB "On long final, closing down on landing". (JM3) D5X 0947 USB req wx for EGQL (Leuchars) via Architect. 3BL 1231 USB req wx for EGQL via Architect. 3CU 1255 USB r/c with Architect. (JS3)
4745 RESURFACE 1356 USB wkg NIGHTWATCH 01. BACKBITE 0513 USB clg NW 01, then any station this net. At 0522z, BACKBITE clg NW01, w/no response. At 0545z, BACKBITE wkg NW 01. BACKBITE entered the net at 0551z. NW01 then moved them to ZULU 115, found to be 3143. (JH)
4747.5 JWT: Norwegian AF UTC? Mode? (TF)
4914.5 FDG: FAF Bordeaux, F 0807 CW v mkr. (pcG)
4925.5 FDE14: Unid FAF, F 2032 CW v mkr. (pcG)
4959.5 BALDWIN CONTROL, NORAD HIROCC (Hawaiian Regional Operations Control Center) UTC? USB wkg HOKU 61 w/rdo ck's after QSY from 364.2 AICC, also HOKU 51 on the net advising BALDWIN CTL he was reading him 2 by. (EA)
5026 NIGHTWATCH 01 1116 USB wkg STARDAY (sounds like). Heavy swbc qrm from 5025, as always. Self-id'd the freq as ZULU 140. (JH)
5142.6 J9Z: aka CG 6016 (HH-60J) 0606 USB clg Coast Guard Station Port Canaveral, Fl, NMA12, no joy, but CG 41319 (USCG 41 foot utility boat) ans, will attempt to contact NMA12 for proper frequency for "LANT 6". CG 41319: USCG 41 footer 0636 USB wkg CG 41329 re awaiting 6016, later Station Port Canaveral, Fl, NMA12 up here w/poss fisheries patrol comms. (RB) J9Z: USCG 6016 HH-60J 0740 USB wkg 41319, USCG 41' boat. The ? is in the water at 2838.14N 08004.50W, course 180, speed 3 Kts. Continuing through 0800, units seem to be doing some sort of fisheries patrol. J9Z is reporting on various fishing boats that he sights in the water, most are shrimpers. (DW2)
5203.5 M9K as NCS 1256 USB conducting a roll call, approx 21 stations in net, to 1312. Possible USNG or US Army. Next Wednesday at 1300, w/calls M9K (net control), X6V, G1N, N4J, G2N, B6Y, A1B, M1R, N2H, E9F, B5O, Q7I, X9P, X8L, P5C, G4V, M4Q, U3J, Y7E, X2R, I4S, D1M, L3A, & T8Z, Same calls as last Wednesday, same net procedures. (JM)
5342 FDY: FAF, Orleans, F 1200 CW v mkr. (pcG)
5392 C2M UTC? USB w/tfc. SHARK 21 clg 4LV & REDCROWN. AS advised SHARK 21 to contact REDCROWN on other freq. (GD3) TROUT USB w/Dutch accent, 'AS' w/US accent, and '1JA' w/an EE accent in exercise comms. (GT) NATO Northern Lights & Bright Horizon exercise 2130 USB to the north of the UK. (PJ3) Military exercise 1149 USB very active, "I have destroyed the ponies, but there is a strong possibility of bird strike 30NM NW my posn" (British accent). 3KJ (British) reporting echo's bearing 215 @ 7NM to C2OE? (Nordic accent) - Both complaining of severe QRM. (SB2)
5470 Unid: Turkish Military 0601 USB tactical net. (CK)
5680 UK SAR 1908 USB Rescue 193 wkg Portsmouth, adv that they were leaving Penzance Hospital. (AO) RESCUE 122, 131, 128: 1105 USB wkg Kinloss Rescue. 122 stood down. 128 informed that possible police helo in area. Contact Otterburn on 299.400 (CH) Glucksburg Rescue 1303 USB r/c with unid a/c. Sveda Rescue 1304 USB tfc Rescue 69. Rescue 122 1317 USB tfc Plymouth rescue. Rescue 169 1322 USB tfc Kinloss Rescue. (JS3)
5687 Airforce Auckland 0910 USB clg Airforce Sydney for radio check. (AW) GAF Munster (Ch.E) UTC? USB wkg GE3101. This GE mission callsign belongs to a/c flying from Geilenkirchen as we have similar two-letters callsigns like BU (Buchel) FF (Furstenfeldbruck) etc.,

a/c out of Geilenkrichen are likely to be AWACS also because GE3101's operator was an American. This mission is a flight over Turkey (and other countries?) for exercise "Dynamic Mix". GE3101 reported he's flying a routing w/posn reports on wx & flying FL200. DHM91 (GAF Munster) gave him an wx update on the whole routing & wx reports of the Turkish bases Eskiseher, Erzurum and Gazientep. Back up frequencies are Ch.M (11217.0) & Ch.K (?). (GD3)

5696 RESCUE 6014: 0014 USB wkg Camslant Chesapeake w/posn rep. 4122N 72__W.
Also heard 6001 and 6034 giving posn rep (CH) Rescue 6002 0153 USB wkg CAMSLANT, airborne from E-City re downed a/c in Chesapeake Bay. (IRC) NMN: USCG CAMSLANT Chesapeake, Va 0234 USB sending in the blind to PANTHER 200 (DEA facility), req they att to contact 6031 (31C?). Rescue 6042: USCG HH-60J 0308 USB wkg NMN, req radio guard, airborne from AirSta E-City enrt Pamlico Sound for PIW (Person In Water). NOY8: USCG Group Corpus Christi, Tx 0501 USB wkg RESCUE 2118 w/posn 2830N/9408W. NOY: USCG Group Galveston, Tx 0530 USB clg CG 6512, no joy. NOY8: USCG Group Corpus Christi, Tx 0548 USB wkg RESCUE 2103 w/status. NMW: USCG Group Astoria, OR 0605 USB wkg unid "Coast Guard" a/c re status. NMA10: USCG Group Mayport, FL 0638 USB clg 6032 no joy, NMN then calls, 6032 passes flight op's normal. NMN: USCG CAMSLANT Chesapeake, Va 1829 USB wkg 'Viking Charlie' for flight op's, VC then secures radio guard. (RB) USCG Group Galveston, Tx 0532 USN wkg USCG a/c 2103 (HU-25A), 2103 reported its posn as 2755N, 09356W, orbiting over "the platform" while 6512 (HH-65) was refueling. BM896: USN AIRCRAFT (?) 0628 USB wkg USCG ComSta Kodiak, AL; posn 5155N 16312W. CG 6518: USCG HH-65A DOLPHIN 0716 USB wkg Kodiak ComSta, posn 5329N 16742W. RESCUE 1503: USCG HC-130H 0553 USB airborne from homeplate Elizabeth City at minute 51, 7 souls on board, enrt 121.50 MHz ELT at posn 3704N 07343W....at time 0559Z, posn of a/c was 3627N 07535W...at time 0641Z posn of the ELT was: 3603.1N 07410.0W, moving south....at 0700Z, the posn of the a/c was 3634N 07356W. COAST GUARD 6010: HH-60J USCG HELO 0559 USB wkg CAMSLANT, CHESAPEAKE to accept radio guard, homeplate CGAS Clearwater, 4 POB, enrt Jacksonville, Group Mayport. CAMSLANT: USCG COMSTA CHESAPEAKE VA 0205 USB clg 6034: USCG HH-60J, no joy. CAMSPAC: USCG POINT REYES CA 0211 USB clg 6034: USCG HH-60J, no joy also.(DW2)

5705 BIGBURLY 1409 USB clg NIGHTWATCH 01 but raised FARMBOY; FARMBOY enters BIGBURLY into the net at 1412z. RAREFIND 0638 USB wkg NIGHTWATCH 01. AWARENESS 1620 USB clg NIGHTWATCH 01. WAR46 0022 USB wkg NIGHTWATCH 01 (at the same time, NIGHTWATCH 01 was also wkg ORANGEADE on 9016). At 0136z, NIGHTWATCH ONE clg WAR46 w/no response.

5708 MAFF 1030 USB wkg Watchdog 92, reporting normal operation. (AO)

5709 Voice-tell & link-coordination freq UTC? USB used in Northern North Sea for an exercise and not in the Mediterranean. ORCA 77 UTC? USB w/tfc. (GD3) Military exercise 2130 USB w/callsigns heard: F5J, U8A, S5M, 1JA, & 3CW, 3CW being very strong U.S. station, U8A (English accent) told F5J (French accent) to try XBH for messages. (DT) NATO Northern Lights & Bright Horizon exercise 2130 USB to the north of the UK. (PJ3) Military exercise 0850 USB onwards,I3L, 2UY,1VK, 8UP, 2MN, 0NJ, 4VK, & K7U, I3L told he was transmitting XU & XR by 2UY - All "TOLD" to use VI Codes. At 1137, 1CX was complaining about a carrier 1Khz off freq (5709) when Orca 77 was transmitting. He also req a "new playground" for the C3 that was coming in. Also heard 2BG (British) complaining of freq conflict and asking for 3 megger. Topics seem to be nearly always Radar/Communications. (SB2)

5724.5 BRAVO FOXTROT: USN/NATO 0631 USB wkg F4X w/link 11 coordination, passes list of units in the poll responding by trigraph callsign.(RB)

5800 PROMPTER: 0702 USB wkg NIGHTWATCH for radio ck on Z150. After establishing comms, suggested radio ck on Z160 (6715). Shortly thereafter, PROMPTER returned to Z150 clg NW, while NW answered on Z160. At 0706, QSY'ed to Z205 (11494) for radio ck. At 0710, QSY'ed to Z175 (9016). NIGHTWATCH: 0724 USB clg WAR46 on Z150, no joy. (DW2) GLASSFULL 0524 USB wkg NIGHTWATCH 01. RAREFIND 0637 USB wkg NW 01. THEOLOGY 0624 USB wkg NIGHTWATCH 01. BACKBITE 0554 USB clg NIGHTWATCH 01. (JH) NIGHTWATCH 01: 0431 USB wkg WAR46 w/rdo cks "on Z150". (RB)

6020 Alley Cat Base 1351 USB & two other stations (Alley Cat Deployed?). Too much static, but possibly US Army. (JM)

6284.5 NATO Northern Lights & Bright Horizon exercise 2130 USB to the north of the UK. (PJ3)
6501 NMN: Camslant Chesapeake 1010 clg "Bravo 36" for voice check. He broke in on NRV Guam having a long wx bulletin since 0930. (AW)
6683 SPAR 65: 1130 USB wkg Andrews, rdo ck (CH)
6688 Royal Navy, Portland 1035 USB clg 4U4L. (AO)
6691 BLOWFUSE 0410 USB wkg BOOMTOWN in voice & data. (JH)
6694 HMCS Provider 0030 USB wkg HALIFAX MILITARY requesting rdo check. HMCS Provider is a replenishment ship and has been transferred here from the Canadian west coast naval port at Esquimalt, BC. (CM)
6697 MKL: RAF Pitreavie Castle 1837 USB transmitting TAF messages to KXN for EGQS, EGVN and ENZV. (ANEE)
6712 CONSTRUCT 0939 USB wkg Croughton QSY 9057, 7927, data traffic, no good, Croughton doesn't receive data from Construct, when Croughton sends to Construct the latter even claim they are not hearing a data audio signal either, which must have been their problem, it was loud & clear here, as were both voice stations. Later tried Lajes (not heard). 1008 11175 pp DSN 236-8256 or 8356 (no answer both). I have DSN 236 listed as Croughton themselves... (BH) ANDREWS 0630 USB w/3 EAM strings at ANDREWS' post-0600z h+30 "repeat" EAM transmission time. ANDREWS was having some equipment problems. (JH) EAM from McClellan 0105 USB (LB2) Cotam 3200 0900 USB to Istres, 1 EVASAN on board. (JP2)
6715 RAREFIND 0639 USB wkg NIGHTWATCH 01. BACKBITE 0550 USB clg NIGHTWATCH 01, w/no response heard. (JH)
6728 SAM 26000 0200 USB wkg Andrews VIP for Sarajevo wx conditions at 08XXz (lost the last two digits in the QRN). Also checked 11056.0 (fair-readable) and 13247.0 (unheard). (JJ)
6730 ANDREWS 0141 USB wkg AIRFORCE TWO w/pp to SAM COMMAND. ETA 0210z at "home station." (JH) IDR: Italian Navy UTC? MODE? (TF)
6738 LAJES 0538 USB w/a brief "test". (JH)
6739 SPAR 66: 0150 USB wkg Thule w/pp __ metro. Told to go to 8964 for Andrews (CH) ARCHITECT 0103 USB w/the hourly wx review for RAF bases. (IRC) GLOSSFULL 0327 USB wkg THULE w/pp to NIGHTWATCH 01. MCCLELLAN 0543 USB w/a 20/20/26 character EAM set over a 10 minute period. At 0541z, ELEMENDORF was up w/20/20 subset of the 20/20/26 set; interestingly enough at the "old" h+41 "repeat" EAM transmission time, instead on the apparent "new" time of h+40. The h+41 minutestamp was used in later transmissions as well over a few days. AUTOSHOP 0417 USB wkg THULE, getting NIGHTWATCH 01 wkg frequencies. At 0421z, ELEMENDORF w/26-character EAM that had followed the 6-character EAM of 0401z, at ELMENDORF's h+21 "repeat" EAM transmission time; followed at 0441z w/same string at ELMENDORF's "old" "repeat" time. At 0439z, RELEGATE clg MAINSAIL and raised HICKAM for signal check. At 0512z, HICKAM w/a FOXTROT broadcast, followed almost immediately with ELMENDORF clg HICKAM w/no response. Within a moment, ELEMENDORF was up w/his FOXTROT broadcast. At 0533z, RELEGATE was up clg MAINSAIL; raising MACDILL for a signal check. At 0615z, AUTOSHOP wkg HICKAM w/pp to a common DSN 339 number ("OPCON"), looking for some parts & what location out of three he was to go to. OPCON adv him that a TACAMO OPS was on it's way to him with info. OFFUTT 0222 USB w/78-character EAM: PDCKJF... OFFUTT w/EAMs at 0235z, 0259z, 0340z, and 0346z. At 0521z, ELEMENDORF broadcast the 0259z and the 0346z strings at ELMENDORF's h+21 "repeat" EAM transmission time. At 0534z, OFFUTT was up w/6 (3M2HQE)/20/26 character EAM set over a 12 minute period. (At 0541z, ELEMENDORF was up with the 0521z "repeat" EAM strings between this 6/20/26 character set). ELMENDORF 0521 USB w/26-character EAM at 0521z & 0540z, ELMENDORF's h+21 and h+40 (back to "normal") "repeat" EAM transmission times. At 0546z, OFFUTT was up with a new 26-character set, duelling with HICKAM's transmission of same. Near the end, HICKAM stopped his reading in mid-string, starting where he left off in sync with OFFUTT's broadcast of same. OFFUTT 0338 USB w/20-character EAM "FOR TACAMO LANT PRIMARY", at common h+38 minutestamp for these things. MACDILL 0440 USB (preceding OFFUTT) w/a 126-character (+/-) EAM (PKNSNJ..), and as with some other previous MACDILL transmissions, the opr read the first run-through in 6-character blocks. 8AJ 0125 USB clg MAINSAIL, then "any station this

net" periodically without raising anyone. At 0514z ELMENDORF initiating a FOXTROT broadcast prefaced with ENLIST, echoed by non-CONUS stations. SHUCK 81 0416 USB wkg THULE w/pp to MILDENHAL wx, getting weather for what sounded like a location in Norway, w/an ETA of 0900z+. At 0509z, LAJES (broken comms, as always) w/an "all frequency request" for SHUCK 61, w/no response. At 0537z, GUNMETAL clg MAINSAIL with no response (he eventually ended up on 8968). ARCHITECT 0522 USB (female opr) wkg TWO BRAVO NOVEMBER. ANDREWS, 0044 USB as lead GHFS station, with 26-character EAMs at 0044z & 0145z. At 0109z, GORDO 11 popped up on freq and clg MAINSAIL, w/no response & gone. At 0132z RAREBIRD clg MAINSAIL, w/no response. At 0328z, FORCE 54 (sounds like) wkg MACDILL w/pp to HILDA EAST. He was looking for status for "his receivers" LOOK 98 (id'd as out of the "55th Wing") & SAME 40 (id'd as "from 625th MATS"). He was being told (often) that LOOK 98 was cancelled (and had been since Friday - this was Monday night local) and that they (including TACC) had no record of a refuelling mission for SAME 40. While FORCE 54 (sometimes id'd by HILDA EAST as REACH 54) "orbited track 206" looking for nonexistent receivers, he got updates from the MACDILL opr on the Monday night U.S. football score. At 0347z KEYRING clg MACDILL "with request"; then MAINSAIL, w/no response & gone. GOLD 81 0328 USB clg MAINSAIL. MCCLELLAN,1403 USB as lead GHFS station, with 41-character EAM "FIXHCH..." An hour or so later, ANDREWS was the lead GHFS station with various 20/26 character EI... EAMs. SPLENDID 1331 USB clg NIGHTWATCH 01, then clg MAINSAIL, with nothing heard and gone. BACKBITE 0507 USB clg MAINSAIL and raised ELMENDORF, w/req for NIGHTWATCH 01 wkg freqs: Z165/Z135. At 0519z, LAJES ("broken" transmission) with FOXTROT broadcast. At 0532z and 0538z, MCCLELLAN as lead GHFS station, w/26-character EAMs, w/both strings used at 0540z by ELMENDORF. At 0548z, BACKBITE back up wkg MCCLELLAN, still attempting to get good wkg freqs for NIGHTWATCH 01: Z135/Z160. (JH) TEAL 44: WC-130 53rd Wx Recon Sqd (AFRES), Kessler AFB, Ms 0537 USB clg MAINSAIL, no joy here. (RB) OFFUTT 0822 USB 20 character EAM for "M2ZJHR." Echoed by MacDill & Hickam. PEARL 90: KC-135 0827 USB wkg Hickam for pp. (DW2)

6757 SHIPWRECK 0230 USB working CARDGAME and NIGHTWATCH. (CM) DECKBOAT 0445 USD wkg BLOWFUSE, with "t-quad" activity. At the top of the minute, BLOWFUSE to DECKBOAT: "the time will be 4 hours, 4_ minutes coordinated TACAMO time." A moment or so later, the phrase was "the time will be 4 hours, 4_ minutes TANGO BRAVO time." Then a comment from DECKBOAT that the ".delay is not acting correctly", & into ANDVT comms. At 0538z,NIGHTWATCH 01 w/a 26-char EAM.At 0541z,DECKBOAT wkg NIGHTWATCH 01 & exited the net. RAREFIND 0639 USB wkg NIGHTWATCH 01. CARDGAME 2050 USB wkg NIGHTWATCH 01. NW 01 1401 USB wkg NIGHTWATCH 01, & asked NW02 if he wanted to enter the net. At 1550z, TESTPLUG clg NIGHTWATCH 01, but was answered by PORTABLE, who advised TESTPLUG was monitor only. PORTABLE then had TESTPLUG enter PORTABLE into the net. PORTABLE was advised that "3MBHT7" was "in the queue". Also in the net SANDHILL; REARDOOR; ___WOOD. BLUEEYES 1520 USB clg "any station this net", and raised ROOMRENT. At 2216z, BLUEEYES exited the net in-the-blind. As seems to be the case for all these in-the-blind calls, the authentication character given out is 2-characters, not 3 (they seem to only use 3-character authenticators when they are actually wkg each other.) At 2248z, NIGHTWATCH 01 with 26-character EAM, simulcasting on 6757.0 and 9016.0. At completion of the string, he clg BLUEEYES, with no response (he must not have heard the player exit the net.) At 2253z, NIGHTWATCH 01 with another EAM string. AFFLUENCE 1600 USB clg NIGHTWATCH 01. At 1608z, AFFLUENCE wkg SKIBOOT. At 1614z, HEDGEROW w/a 26-character EAM. At 1800z, NW 01 wkg HEDGEROW for signal check, & moved to ZULU 175. AWARENESS 1625 USB clg NIGHTWATCH 01. VACINATE 0118 USB wkg NW 01. (JH)

6761 SIERRA ____ (maybe TWO or ___TWO) 0131 USB clg MAINSAIL "on 8968", then "on 11175". (JH) HAWK 87 0401 USB enrt to Dyess AFB w RAYMOND 37 for 0600z Dyess wx. HAWK 87 reported his current posn as "near Dalhart Texas." RAYMOND 37 said he was usually up on 9025.0 during the day. (JJ)

6830 EXECUTIVE 1 FOXTROT 0445 USB wkg Andrews VIP w/pp traffic. Reported: Departed Dallas 0210z. ETA home station (JJ)

6859.5 FDC: FAF Metz, F 1450 CW v mkr. (pcG)
6875 FDI8: FAF unid loc, F 1455 CW mkr. (pcG)
6936 RMP: RUS-NY Kaliningrad, KAL 1645 CW WX reports to REO. (ANEE)
6936 RMP: Kaliningrad Naval, RUS 1630 CW wx forecast in RR addressed to REO. (JD2)
6993 SAM 681 1414 USB wkg ANDREWS. (JH)
6996 US MARS stn 1100 USB clg "Alfa Bravo 8 Uniform". (AW)
7535 NDKH: USS Merramack (AO-179) 1312 USB wkg SESEF Norfolk w/HF radio tests. GUNSLINGER: Unid 1350 USB wkg SESEF w/HF testing. NTSG: USS Thomas S. Gates (CG-51) 1505 USB wkg SESEF w/xmitter tests, Gates is a Ticonderoga-class Aegis missile cruiser. NJPX: USS Nassau (LHA-4) 1650 USB w/text of transmitter #8. NACK: USS Concord (AFS-5) 1701 USB w/rdo ck, req SESEF support for test of 1 xmitter, then goes through all modes in record time! NNTR: nuclear Nimitz-class carrier USS Theodore Roosevelt (CVN-71) 1749 USB w/HF transmitter testing up to xmitter #3, SESEF Norfolk having hard time hearing the carrier, at 1752 SESEF Mayport takes over the testing. This seems to confirm Mayport is a new SESEF (RB) facility. (RB)
7536.5 HOPPER 21: U.S. Navy LCAC-21 1528 USB clg AC4, Assault Craft Unit 4, Little Creek, Va, re is inbound early. HOPPER 13: U.S. Navy LCAC-13 2047 USB clg AC4, no joy. (RB)
7722.5 FDI22: FAF, unid loc, F 1205 CW mkr. (pcG)
7831 NIGHTWATCH 01 1157 USB wkg SLIPHORN who enters the net. NW 01 0524 USB wkg GLASSFULL. At 0526z, GLASSFULL w/EAM to NW 01. At 0923z, OVERSLEEP wkg NW 01 on what OVERSLEEP clg "seven eight three one". DUTCHBOY 1821 USB wkg NW 01. RAREFIND 0644 USB wkg NW 01. At 0701z, a very weak station was up on freq with a 68-character PD... EAM, which was heard at 0708z on GHFS (PDXNGD.),and which was then broadcast on 7831 at 0712z by RAREFIND. OVERREACH 0529 USB wkg NW 01. WORKOUT 0518 USB clg NW 01. ABSTAINER 1807 USB wkg SLOWBALL in ANDVT. At 1820z, SLOWBALL wkg ABSTAINER, w/req to move to "11181" for a data check. At 2150z, NW 01 wkg UPSTAIR/UPSTAND (could not make out the call.) At 2219z NW 01 wkg ABANDON. At 2353z, wkg TEUTONIC. (JH) NIGHTWATCH 01: 0430 USB wkg WAR46 w/rdo cks "on Z170". NIGHTWATCH: 2214 USB wkg TEUTONIC, who authenticates into the net on Z170. (RB)
7845 Unid: USCG? 0323 USB w/ANDVT tfc (aka 'Navy Green'), this is reported to be USCG's 3E12. (RB)
7962.5 FLIGHT (or RIGHT) ALPHA 0510 USB wkg FLIGHT BRAVO for data comms. Sounds very much like the USN "DURANT" type comms which use to be semi-common, however this group is not using duplex comms as was standard for "DURANT." (JJ)
7980 NSY: USAF Sigonella, Sicily 0745 ISB voice on LSB, VFT on USB; wkg AJO. (JD2)
8032 Andrews 2320 USB clg SAM 27000 for radio check (TB)
8040 VENUS 77 0330 USB on approach 10 minutes from McChord AFB wkg Andrews VIP for preflight freqs. for 130025z: F-117, F-752, and F-365. 1926z Previously they worked 11220.0, 11214.0 (USB & LSB) and 11460.0 (JJ)
8092 AJO: USAF Incirlik, TUR 1615 ISB voice on LSB, VFT on USB; wkg NSY on 8127.5. (JD2)
8122 VLRD: HMAS Townsville (Australian Navy patrol vsl) 1414 USB w/tfc for Darwin Control. (AB2) HMAS BENDIGO: FREMANTLE-CLASS PATROL CRAFT 211 0626 USB wkg Canberra Control. Canberra has 1 immediate msg & 3 routine msgs for same. (DW2) HMAS Fremantle 0908 USB Royal Australian Navy patrol boat, wkg Canberra Control relaying info for Darwin Control. HMAS Gladstone 0920 USB Royal Australian Navy patrol boat, wkg Canberra Control relaying info for Darwin Control. (RA)
8127.5 NSY: USAF Sigonella, Sicily 1615 ISB voice on LSB, VFT on USB; wkg AJO on 8092. (JD2)
8335.5 DRDR: U-24 1906 USB Wkg DHJ59 w/r-chk. DRAH: FGS Brandenburg 0904 USB Wkg DHJ59. DRHJ: Elbe 1150 USB Wkg DHJ59. DRHN: Main 1752 USB Wkg DHJ59. (IB)
8964 SPAR 66: 0151 USB wkg Andrews, trying for a 9meg freq, after an antenna swop w/Ascension, Andrews would meet them on F505 [9006] (CH)
8968 REACH Z2: 2252 USB wkg Lajes w/pp Rota cp. DANDY DAN: 1440 USB clg M'sail, no joy (CH) Thule 0109 USB wkg unid w/pp to Charleston Cmd Post & Metro, checking on customs, coming from Port a Prince Haiti. REACH 0017 0138 USB clg Thule, at 2155 wkg same w/pp Pope Meteo.

Unid station (maybe OVERREACH) 0516 USB wkg ELMENDORF, getting NIGHTWATCH wkg freqs: Z175/Z205 (high for this time of local night). GUNMETAL 0546 USB wkg LAJES w/pp to NIGHTWATCH 01 to get net wkg freqs. He also received the "current traffic" via the patch. (JH) EAM from Offutt 0047 USB (LB2) TwoTimer 2143 USB calls mainsail & answered by Andrews, requests nightwatch freqs GHFS advised Primary Z175, secondary Z220. (KW2) MUSIC 68: C-130 118th ALW, TN ANG, at Nashville Metro Apt, Nashville, TN, 1426 USB wkg Andrews GHFS w/pp MINUTEMAN (Op's CenterAir Nat'l Guard Bureau, Andrews AFB) re departed Tyndal AFB at 1400z. LOOK 81: 7th ACCS/55th Wing, Offutt AFB, Ne, EC-135C LOOKing Glass a/c 2029 USB wkg Offutt GHFS, w/pp RAYMOND 21 (Offutt AFB) re reporting a 'dropped object' from the antenna; drogue fell prior to the antenna being secured, notify LOOK 01, passes approx loc & is now out of orbit for AR. GASER 93: HC-130N/P "Combat Shadow", 9th SOS, Eglin AFB, FL 2218 USB wkg Offutt GHFS w/pp unid meteo. (RB)

8971 K9B: 2245 USB clg V8F (CH) INDIA 8 DELTA 0240 USB wkg FOXTROT 4 PAPA. F4P adv will contact your station when airborne enrt yours. I8D replies rgr stding by this frequency. (EA) ORCA 76 1900 USB wkg E1N giving on station-time etc. Assume this is US-NAVY, either in the Adriatic or Mediterranean. (GD3) Uniform 55 0133 USB wkg/Control at Guantanamo Bay Securing the guard. (that's a first! -LOGS) Ghost 02 0135 USB wkg/Blue Star. Ghost 02 0144 USB wkg/Blue Star in the red (LB2) SCREWTOP 2310 USB asking for on-station time for GULF in the morning...said to ask BLUESTAR who GULF didn't have comms with. BRAVO reported on deck time of minus decimal 3-0.(TB)

8972 A1534 0915 USB (selcal AF-DG) to Sarajevo. (JP2)

8974 Airforce Sydney, Airforce Brisbane and Airforce Perth 0930 USB wkg each other for radio checks. (AW) AIR FORCE SYDNEY: RAAF 0616 USB wkg unid a/c: ?-654. Callword was possibly "Mariner" but was too weak to be sure. Controller passed a wx report for an unid airfield. (DW2) KIWI 53 0828 USB was relaying traffic to Air Force Sydney via Air Force Townsville. The a/c was requested to "go to CD frequency at 0900." STRIKER 142 0838 USB wkg Air Force Perth re ETA 0950, and was told it was "free to close." (RA)

8989 TROUT 99 0345 USB wkg Andrews VIP. (JJ)

8992 MACDILL: 0442 USB w/130 character EAM, preamble: PKN5NJ. (DW2) H8G 0112 USB wkg MACDILL w/pp to COMSUBLANT STATION WATCH OFFICER, w/an "exercise esteem highly alpha" message. The COMSUBLANT got the TOR date wrong, which was pointed out to the opr by H8G simply repeating the TOR w/the correct date in the thing. The ground party immediately sent another, correct, TOR. H8G then "relinquished the net" & was gone. RAZOR 03 0202 USB wkg ASCENSION w/pp. (JH) EAM from McClellan 0049 USB (LB2)

9006 SPAR 66: 0200 USB wkg Andrews. This was a long winded log w/Andrews trying to set up a pp to a cellphone and the US Embassy in The Congo, Central Africa. They were still at it abt 1 hr later w/no joy (CH) O-LIMA 0330 USB wkg O-MIKE for a radio check. O-M then advised that the "Net" will be down for 20 min. (JJ)

9007 CANFORCE 2769 2322 USB wkg Trenton Military...switched to 11232 where Halifax replied (TB)

9011.4 KILO-2 1834 USB w/msg to MAGIC CARPET SIERRA advising that they're still on the deck. MAGIC CARPET 2301 USB wkg XRAY-ONE-HOTEL w/"ALLIGATOR" traffic. MAGIC CARPET passed 308.5 UHF freq. (JJ)

9014 JAMBO 29 HEAVY 1800 USB wkg RAYMOND 07 w/pp to BLUE MAINTENANCE, re engine oil warning problems involving all eight engines. At 1921z, TURBO 26 wkg RAYMOND 07 w/pp involving the fuelling of "two flights out of HOLLOMAN." LANDLADY 0208 USB clg NIGHTWATCH 01, trying to enter the net. At 1439z, BIRDMAN (USN) wkg NIGHTWATCH 01; at 1442z, AUTOTIRE (USN) wkg NIGHTWATCH 01. ONE 1806 USB wkg TWO: "Visual!" GASER 21 HEAVY 1510 USB wkg "CANNON" (RAYMOND 07) w/pp. (JH)

9016 TEARDROP 0120 USB w/EAM to NIGHTWATCH 01, then NIGHTWATCH 01 clg MODIFY (sounds like; rare 6-character call.) At 0624z, MODIFY clg TEARDROP, then "any station this net." BLOWFUSE 0426 USB wkg DECKBOAT. At 0436z, "ticking" noise w/HICKAM popping up on freq wkg ANDERSON, w/HICKAM sending data to ANDERSON at 0439z. SLIPHORN 1230 USB wkg NIGHTWATCH 01. Then SLIPHORN wkg NW 01 for signal checks approximately every 30 minutes for the next few hours. At 1420z,

MCCLELLAN clg and raised HICKAM. At 1435z, SLIPHORN wkg NW 01 on top of some MCCLELLAN/HICKAM comms. At 1441z, SLIPHORN went monitor only for 2 hours. At 1538z, MCCLELLAN w/EAM transmission, keying this freq in addition to the standard GHFS freqs. RAILBIRD 0149 USB clg NW 01. FARMBOY 1318 USB clg NW 01. NW 01 1225 USB clg/wkg unid station. At 1436z, "This is GLENMORE" repeated twice, then into 26-character EAM string. GLENMORE was very strong here; in his background was loud mechanical racket of steady pulses (tty device??), & someone in the background under stress shouting something and clg out ROMEO OSCAR. Opr chatter later in the day from GLENMORE was USN. At 1534z, VULCANIZE clg PUBLISHER, then wkg NW 01 to enter the net. VULCANIZE immediately asked NW 01 if NW01 had received VULCANIZE's traffic. Negative, so VULCANIZE transmitted an EAM string to NW01. NW 01 seemed to pay close attn to VULCANIZE throughout the day. At 1817z, DUTCHBOY wkg NW 01. At 1829z, NW 01 wkg VOLCALIZE who entered the net. At 1918z, VULCANIZE with a 26-character EAM, then NW 01 & GLENMORE acknowledged this traffic (string heard on GHFS at 1924z.) At 2006z, VULCANIZE 01 (aka VULCANIZE) clg VULCANIZE 02, with no response; so VULCANIZE 01 raised NW 01 & asked if NW01 had comms with VULCANIZE 02. NW01 told "VULCANIZE" (01) that the only "VULCANIZE" in the net was VULCANIZE, and he had no knowledge of VULCANIZE 02. RAREFIND (probable USN) clg NW 01, then clg & raised JAILDOOR. RAREFIND adv that he was trying to work NW 01 on ZULU 155 (unk), but that there was an EE swbc station on the freq. ZULU 155 is suspected to be 5875.0 (which did have an EE bcst in progress on the freq.) RAREFIND 1352 USB clg NW 01. OVERREACH 0520 USB clg NW 01; finally wkg him at 0526z (after a trip back to 8968 to raise THULE & reconfirm freq w/NW 01.) INDUCTOR (or sounds like) 1355 USB wkg NW 01, & then moved to ZULU 210. At 1808z, NW 01 wkg TEST____ (maybe TESTCOUNT.) Heavy qrm here from probable ANDREWS activity on 9017. NW 01 1455 USB wkg SYCAMORE. At 1733z VOCALIZE wkg NW 01 & entered the net. Also in the net: SYCAMORE; STANDBACK; BENDBACK. At 2044z CARDGAME wkg VOCALIZE, and entered the net. NW 02 1400 USB clg & raised NW 01. At 1435z, NW 01 wkg SANDHILL who entered the net. Also active: TESTPLUG (EAM broadcaster) and TEAMWORK. At 1445z, TEAMWORK with 26-character EAM; NW 01 acknowledged the traffic, along w/TEAMWORK & SANDHILL. At 1609z+/-, TESTPLUG wkg POSSIBLE who entered the net. At 1751z, TESTPLUG wkg NW 01, and told NW01 that NEONSIGN had good copy of traffic. By this time, the players are TESTPLUG; SANDHILL; REARDOOR; PORTABLE; POSSIBLE; NEONSIGN. By 1819z, players are discussing their WHISKEY OSCAR (WUN lurker suggests that this might have to do with their (O)rderwire frequencies, maybe.) At 1939z, NIGHTWATCH 02 clg NIGHTWATCH 01; then POSSIBLE raised NW 02. NW02 asked POSSIBLE if POSSIBLE were in contact with NW01; answer "that's a big negative." At 1940z, NW 02 wkg NW 01, & asked NW 01 if he received NW02's "LIMA FOXTROT" (low frequency comm). Just after this comm, POSSIBLE told SANDHILL that POSSIBLE copied SANDHILL's "WHISKEY OSCAR". NW 02 1353 USB wkg NW 01, req an "an vit" (a pronounced ANDVT) test. After the test, REITERATE popped up & adv NW 02 that REITERATE had received NW02's ANDVT comms ok. At 1405z, ATENDANT wkg NW 01 & entered the net.Also active: ROOMRENT. By 1516z, everyone on freq was complaining of losing NW 01. At 1633z, ATTENDANT wkg INTERVIEW.At 1756z, ATTENDANT with 26-character EAM to the net (OFFUTT with same string at 1800z on GHFS.) CULTIVATE 1400 USB wkg NW 01. TOPSPOT (sounds like) 1246 USB wkg NW 01, & checking into the net. AFFLUENCE 1623 USB clg SKIBOOT. At 1625z, AFFLUENCE wkg IRONWORK. At 1626z, AFFLUENCE wkg SKIBOOT. At 1801z, NW 01 wkg HEDGEROW. RAFTLOG 1842 USB clg MACDILL, then moved to 13242. HICKAM 0438 USB wkg ANDERSON in voice & data. STARDAY 1119 USB wkg NW 01, & entered the net. NW 01 adv that WORKOUT is also in the net (since 0521z+/-), using Z125. At 1541z, NW 01 wkg STARDAY. At 1548z, WAR46 wkg NW 01 for a signal check. At 1634z, ABSTAINER wkg NW 01 & entered the net. At 1638z, ABSTAINER wkg NW 01 for data work (TE204). At 1745z SLOWBALL clg ABSTAINER; and entered the net through ABSTAINER at 1753z. At 2222z, _____ wkg ABANDON. At 2304z, NW 01; female opr; loud "whine" on signal) with 26-character EAM. At 2310z NW 01 wkg TEUTONIC. NW 01 0234 USB wkg BLACKFLY. At 0236z BLACKFLY (maybe USN) wkg PETTYBOY (sounds like.) GUNMETAL 1225 USB

wkg NW 01. At 1238z, NW 01 clg GUNMETAL & NEONGAS. At 1358z CAKEBAKE wkg NW 01 & entered the net. At 1408z, CAKEBAKE clg NEONGAS, then HEADLONG. HEADLONG and CAKEBAKE went into ANDVT comms; at the completion of the secure comms, the comment was made "meet you on that frequency" and they were gone. At 1427z, NIONGAS clg & raised NW 01; informed him that he was going "monitor only" for 2 hours. NW01 informed him that "traffic was coming your way" (in progress on the GHFS) and to acknowledge the traffic via WB. At 1443z, CAKEBAKE wkg HEADLONG and moved him to Z180. At 1502z, ADVANTAGE wkg CAKEBAKE & asked for primary/secondary wkg freqs. At 1525z ADVANTAGE wkg NW 01. At 1541z, the freq lit up w/what sounded like dtmf tones, then a "warble" tone, & finally MCCLELLAN up clg & wkg CAKEBAKE for voice & data. At 1559z, CAKEBAKE w/a 26-character EAM. At 1618z, AWARENESS wkg NW 01. AWARENESS entered the net at 1624z. At 1920z, CAKEBAKE wkg NW 01 & apparently exited the net. At 1929z there were more "dtmf type" tones (maybe just an artifact of "their" data equipment) & then into a long data transmission, with no voice comms bracketing this thing. At 1959z NW 01 wkg NEONGAS and moved him to Z220. ORANGEADE 0017 USB wkg NW 01 & entered the net, w/no other stations in the net, per NW01. NIGHTFALL 2107 USB clg NW 01. At 2128z NIGHTFALL wkg NW 01 and exited the net. MACDILL 0107 USB wkg TEAL 04 w/Hurricane related pp traffic. At 1351z NW 01 wkg RESURFACE. GLADIOLA 1200 USB wkg NW 01, & entered the net. At 1434z, GLADIOLA wkg NW 01 and exited the net. RAREBIRD 0010 USB clg NW 01. NW 01 1303 USB clg SHADRACK for a signal check. "NW ONE" 1330 USB clg "WHISKEY ALPHA ROMEO 46", w/pp to common DSN number usually associated with calls placed to NW 01. When WAR46 came back up w/patch, NW 01 suddenly became very "boomy/echo'y", sounding like he was at the end of a very long tunnel (in fact he sounded like he was coming from the WAR46 site) wkg the clg party (also "echo'y") for a hi 'n bye connectivity check, & terminated the patch. He immediately sounded "normal" again. At 0111z VACINATE (maybe USN) clg NW 01 in the middle of NW 01's phonepatch (with himself?), finally raising NW 01 at 0113z. NW 01 asked VACINATE if he wanted to enter the net, & VACINATE told NW01 that he was already in the net, as of 2006z on ZULU 220. NW01 had no record of him, so he put VACINATE through the challenge process and put him again back in the net. At 0116z, NW 01 clg SHUTOUT. At 0156z, VACINATE wkg NW 01 for a signal check. At 0220z, RASPUTIN (sounds like) wkg NW 01. At 0257z, RASPUTIN wkg VACINATE. At 0322z, VACINATE wkg NW 01 and exited the net. DARTBOARD 1800 USB (sounds like) wkg NW 01. At 1809z, SPLENDID wkg NW 01 & asked permission to work DARTBOARD on freq with some data work, which was granted. At 1821z and 1830z, SPLENDID w/26-character EAMs, trailing the GHFS broadcast of same. At 1845z, SPLENDID apparently left the net. At 1847z, NW 01 told DARTBOARD that OUTSPOKEN was on ZULU 165. NW 01 0141 USB wkg WAR46 w/pp request to a DSN 271 number id'ed w/RAYMOND 21, & was id'd as such during patch, for a quick hi 'n bye "communications test call." (JH) NIGHTWATCH: 0026 USB wkg TEDDYBOY on Z175 re station NW is going monitor only, relay tfc via station BLACKFLAG. WAR46: Alternate National Military Communications Center, Raven Rock Mountain, Pa, US 0429 USB wkg NIGHTWATCH 01 on Z175, then w/BEANSOUP entering the net. (RB) TwoTimer 2355 USB EAM broadcast "PKOD5...". (KW2)

9017 ANDREWS 0210 USB clg SAM 049. ANDREWS 1706 USB wkg SAM 300 (sounds like). ANDREWS 0125 USB wkg AIR FORCE ONE. (JH)

9018 JOEL 13 1736 USB wkg JOEL 12, w/discussion of wx at Dallas, Tx. GASER 92 0022 USB clg GASER 93. GASER 93 0358 UBS clg GASER 92. (JH)

9019 ____ 61 (missed the id) 2124 USB wkg PLANTATION OPS w/pp to home (he wanted a ride in 15 minutes.) (JH)

9023 DARKSTAR NOVEMBER 1733 USB wkg _____ (missed id). ANDREWS 0010 USB wkg SAM 403. NORTHERN LIGHTS 1554 USB wkg DARKSTAR NOVEMBER, regarding 63 tracks. Comms followed by RETAIL ALPHA clg DARKSTAR MIKE. (JH) Deerhunter 0110 USB wkg/ Bluecrab (LB2)

9023.2 AIR FORCE 2 0450 LSB inbound from Moscow, following & wkg SAM 972 trying to establish a link, most likely data, without success. (PS)

9025 Ridgeback, 94J 0730 USB unsure of call used by op. OM Australian accented. Reading coord's or Alpha numeric strings w/"COME UP" interspersed amongst the mostly numerics. Mntn of Greyhound & Hot

Dog. Authenticated each msg. (EC1) YANKEE-FOUR-XRAY (Australian accent) 2215 USB wkg ZULU-FOUR-JULIET (unheard). Passing coordinates w/phrases like:"Tack 6 probable hostile" & "radar decoys." Also using names: "Ridgeback," "Greyhound" & heard mentioned once, "Alligator Control." Lots of comm chatter heard in the background when Y4X xmitts. Gave posn as 280 miles west of Darwin. (JJ)

9031 RAF - Rainbow 1006 USB will be maintaining Selcal watch. (AO) ASCOT 4397: 1035 USB wkg Architect, req Lynam actual & selcal ck HK-DM. ASCOT 1202: 1835 USB wkg Architect w/ selcal ck DJ-FK. MAGIC 93: 1230 USB wkg Architect w/pp Waddington base ops. Setup some kind of data comms consisting of a short burst of abt 2 secs but Waddington failed to receive. Req taf for EGXW, EGNX and EGCC. MAGIC 89: 1045 USB wkg Architect req wx and TAF for Waddington and E.Mids. (CH) Architect: 1200 USB RAF STCIC QNH settings. (CK)

9057 GLASSFULL 0450 USB wkg NIGHTWATCH 01. DUTCHBOY 1820 USB wkg NW 01. CAKEBAKE 1444 USB wkg HEADLONG (probable USN) in clear voice & ANDVT. At 1453z, CAKEBAKE moved HEADLONG back to 9016.0 "for traffic" (which was read by CAKEBAKE on 9016.0). (JH)

9103 Multinational NAVY-units UTC? USB doing Voice-tell & link-coordination Callsigns including WCF, D5L, VQV, etc. This freq is a same kind of freq like 5709.0 (same nationalities). (GD3)

9120 Andrews VIP 2357 USB clg SAM 681 w/no luck. (JJ)

9122.5 WUE6, US Army COE, Hendersonville, TN 1442 USB accepting SHARES msg from WWJ74, FHWA, Cadillac, MI. (JM)

9320 SAM 28000 0542 USB, on the ground at MOFFETT, wkg Andrews VIP w/signal cks. Also heard on 8058.0 (probably F-054, but not yet confirmed here) and 6986.0.Then at 2206z, from 6986.0, moved to F-476.....not found here. NIGHTWATCH 01 2245 USB, after many calls, contacts Andrews AFB regarding data comms on this freq: TE-205, 75bd. async. (JJ)

9809 DUTCHBOY 1817 USB clg NIGHTWATCH 01. SANDHILL 1532 USB wkg TESTPLUG, w/TESTPLUG id'ing freq as "98" (suggests USAF opr.) At 1543z, ORTABLE clg what sounded like BLUE LIGHT (or maybe BLUE LIGHTNING), then "any station this net", answered by TESTPLUG, but he did not respond to TESTPLUG. At 1545z, PORTABLE clg NW 01. (JH)

9970 FDC: FAF Metz 1028 CW vvv de FDC. (PB)

10046 4XZ UTC? CW w/marker. (DSB) (Israeli Navy, Haifa -LOGS)

10192.5 DRAQ: Bremen 1752 USB Wkg DHJ59. (IB)

10199 BROADSWORD 2245 USB wkg CROSSBOW-8, (not heard here) "We'll be standing by on this frequency...out." (JJ)

10201 BROADSWORD 2304 USB (maybe off freq.,see 10199.0) clg CROSSBOW-7. No joy. Before signing off BROADSWORD said (in the blind), "Forwarding (sounded like) to CHARLIE-OSCAR-ECHO-INDIA." (JJ)

10204 OVERREACH 0530 USB wkg NIGHTWATCH 01, & OVERREACH entered the net. AWARENESS 1619 USB wkg NW 01. NW 01 1354 USB wkg RESURFACE. (JH)

10205 SAM 27000 2333 USB wkg ANDVT comms with Andrews VIP. (JJ)

10470.5 FDC: French Air Force, Metz 1909 CW, "vvv vvv vvv de fdc fdc fdc ar" marker (MC)

10507 SXA: GRC-NY Piraeus, GRC 0732 CW clg TBH TUR-NY Ankara. (ANEE)

10512 AQP: Pakistani Navy, Karachi 1656 CW, "vvv vvv vvv aqp2/4/5/6/8" marker (MC)

10872 FDI8: French Air Force 1730 CW, "vvv vvv vvv de fdi8 ar" marker (MC)

11053 SAM 202 1942 USB wkg Andrews VIP for pp to Sherman Base Ops: DSN 552-6041 & DSN 552-2396.Two DV and six PAX. ETA Sherman: 2200z (JJ) Spar 65 0920 USB w/Andrews VIP, Mildenhall to Gander then KADW, 2 DV3s on board. (JP2)

11053.5 GHOST (no number given) 2245 USB wkg unid for msg. relay to party at a UK phone number and gone. Also heard a third unid player involved w/these comms. (JJ)

11056 Sam 26000 2015 USB from Bosnia to KADW, arrival 2130 local, Secretary of State on board. (JP2)

11059 SAM 206 0112 USB wkg/Andrews (LB2)

11061 EHCO-2-TANGO 0012 USB wkg PAPA-6-OSCAR setting up SATCOM, "Your antenna should be pointed at 253 degrees." UNIFORM-5-NOVEMBER 0122 USB wkg DELTA-2-ECHO, and others, "in the clear" & ANDVT comms. (JJ)

11175 SIERRA 42 0219 USB clg Andrews req pp to Travis Command Post. SIERRA 42 said he was a KC-10 over Nevada. Asked Travis is HAWK 83 (out of

Dyess?) was airborne now. Travis confirmed HAWK 83 was airborne. (BA) Reach 205 1012 USB Mainsail no joy (BH) REACH 50003: 2312 USB wkg Ascension. req rdo ck. REACH Z2: 2350 USB wkg Andrews. chg to 4724 then 15016 w/pp to Flight Planners. tail no. 40615. req change of flight plan to OKBK and found alt route that would cut 45 mins off time. REACH 0010: 1815 USB wkg Ascension w/pp Mildenhall reported Alpha 3, No.3 engine fuel gauge off scale high plus Madar gsu failed. were told to contact Mildenhall on UHF 30 mins out. I heard REACH 0010 on UHF talking to Mildenhall abt problems at 1940UTC. SPAR 65: 2115 USB wkg? pp Shanon. They never knew abt arrival, only military arrival was a C20. JM304: 1430 USB clg Croughton, no joy. REACH JZF7: 1445 USB pp___ (CH) S4JG 1925 USB wkg MacDill for a radio check. (DW2) ARGOT 1503 USB Clg & Wkg Croughton. c/s was spelt phonetically. Any Ideas of this unit? Gold 91: 1501 USB clg Mainsail. MILT 24: 1258 USB Wkg Croughton, C130/Dyess. (IB) MCCLELLAN 1412 USB clg MACDILL; MACDILL told MCCLELLAN that he was in the middle of a pp, & to stand by. At 1413z, MCCLELLAN wkg HICKAM & moved to 9016. FARMBOY 1319 USB wkg OFFUTT for NIGHTWATCH 01 wkg frequencies. At 1329z, MCCLELLAN w/a 20/20/26 character EAM set over a 12 minute period. At 1334z, RAILBIRD wkg MCCLELLAN for NW 01 wkg freqs. At 1652z, OFFUTT wkg _____ (could not make out), with OFFUTT passing various EAM 6-character preambles to the station. At 2011z, HAWK 85 wkg OFFUTT w/an "ops normal, negative relay" message. At 2157z, MCCLELLAN with a 38-character EAM: PDPTFS. At 2306z, HAWK 86 clg OFFUTT GLOBAL; at 2309z, he clg MAINSAIL , raised "__" (missed it), & passed "122210 ops normal, negative relay" message. MCCLELLAN 1322 USB clg/wkg MACDILL, req MACDILL meet MCCLELLAN on 8968. MACDILL advised him that 8968 was not one of his assigned freqs, so MCCLELLAN moved MACDILL to 11244. (MACDILL told MCCLELLAN on 11244 that SHARK 21 wanted a pp to "Pacific" ANDERSEN, & MACDILL was having no success, so MACDILL req that MCCLELLAN run the patch for SHARK 21.) ALBROOK 1916 USB wkg SAM 206, & provided a pp to ANDREWS for good wkg freq: 311. MCCLELLAN 1525 USB clg ALBROOK w/all frequency request, withnothing heard, & into a "MAINSAIL, MAINSAIL" which he immediately terminated. MCCLELLAN was found a moment later n 11244 wkg OFFUTT. OFFUTT 1350 USB wkg INDUCTOR (or ABDUCTOR or somesuch), providing NW 01 wkg freqs. OFFUTT 1415 USB wkg NIGHTHAWK MOBILE, w/pp to an area code 202 number (OPS CENTER). At 1419z, unid station (could not make it out) clg BAYONNE GLOBAL w/no response heard. HAWK 91 0157 USB clg HAWK 90. At 0258z ICER 21 clg MAINSAIL and raised ELMENDORF for a pp. PAT 140 1906 USB clg MAINSAIL; raised OFFUTT; and placed a pp to PAT OPS. ALBROOK 2318 USB clg SPAR 84. (JH) Offutt AFB 1538 USB w/EAM for "TACAMO PAC Secondary". (JM) Reach 8233 (Tail no 50276) 2016 USB 56 59N 31 30W, Dep UUWW at 1935, C-141 clg HILDA EAST?, 350, Neg Icing, Unlimited Visibility, 250/25 -38deg C(Brrrrr:-)), Going to Ascension then ETA Shannon at 2335. (JM3) Incirlik 1650 USB w/Reach 2704 to Frankfurt, no pax, no cargo. (JP2) SL635 1030 USB wkg Croughton, pp to 624-5121. Phone was answered 'SL635, this is squad.', then 'squad' (same YL operator) said 'SL635 from squad, this is station 4BR, no traffic for your station at this time'. Reach T3 1259 USB wkg Croughton, pp to Ramstein Metro for wx Ramstein, time 09:30 the next day. SAM 26000 1520 USB w/pp to Andrews through Incirlik asking Andrews for SatCom frequency. Andrews told SAM 26000 'operator wants you to QSY to 211'. (Must be the Secretary of State returning to the States from the re-opening of Sarajevo airport for civil traffic). (MB3) MARLIN 3 2335 USB w/pp via ELMENDORF to Duty Officer at NAS Whidbey Island, WA. Gave his eta as 1900 local (0200Z), MARLIN 1 eta 2000 local (0300Z) and advised MARLIN 2 heading to NAS Moffett Field. MARLIN 3 req troubleshooting maintenance on arrival as they had an uncommanded rack-release on all racks. As far as I can tell, the MARLIN callsign is used by P-3C Orion aircraft with VP-40 now out of Whidbey. (Yes, the "Fighting Marlin's" & NAS Moffett has closed, the field is now known as Moffett Federal Field -LOGS) GASER 93 0104 USB pp via ASCENSION to ??? (couldn't quite make it out) re: air re-fueling. GASER 93 barely readable but ASCENSION coming in very well. RACECAR 0108 USB (sounded like a ground station...had that echo-like quality to it) calling MAINSAIL for comms test. ID? SHARK 19 0110 USB w/pp via ASCENSION to ???. Reporting ops normal. (PJ)

Navy MARLIN 2 0116 USB w/pp via ELMENDORF to Duty Officer at Autovon 820-XXXX. Eta homeplate 2015 local (0315Z). Advised that MARLIN 4 is 15 "mikes" ahead of him. SPAR65 2220 USB Req Andrews VIP freq, was given 331Upper Checked on 11220, Andy was calling spar65, Spar65 was clg andy on 11221, they couldn't hear each other, went back to 11175 & was given 449Upper Checked on 4442, signal there but to much qrm on freq from rtty station on 4443. CACHE 02 2319 USB pp to Albrook Metro. Albrook strong signal s9+ into UK. (PJ2) Navy PM294 UTC? USB req pp to 359-9549 re computer printout woes. (RA) (P-3C of VP-91 -LOGS) HAWK 85: B-1B crew training sqd, 28th BS, 7 BW, Dyess AFB, Tx 0007 USB wkg McClellan GHFS w/pp Dyess meteo re wx at unid IR entry point. AUSSIE 242: Royal Australian AF 0023 USB wkg McClellan GHFS w/pp NAS North Island duty office to pass ETA of 0200z. NAVY RU841: Navy C-130T, VR-55, Moffett Federal Field, Ca 0026 USB wkg Ascension w/pp Brunswick meteo, self-ID's as a C-130. TIGER 25: B-1B 28th BW, Ellsworth AFB, SD 0150 USB wkg Hickam GHFS w/pp Ellsworth meteo re wx at unid training range entry point. At 0152 wkg TIGER 26 re if he copied wx. GASER 91: HC-130N/P "Combat Shadow", 9th SOS, Eglin AFB, FL 0154 USB clg mainsail, Hickam GHFS answers, radio ck. ARMY 242: 0210 USB wkg Hickam w/pp unid meteo re wx at PHNA, PKWA, & PJON. (RB) SIERRA 53: unid tanker 0221 USB wkg Ascension w/pp to RAYMOND 08 (Davis-Monthan AFB, Nv CP) re checking to see if his AR at AR647 w/12 A-10's is still on time (last flight of A-10's?). TUFF 17: B-52H, 11th BS, Barksdale AFB 0235 USB wkg Ascension GHFS w/pp MUDBUG CONTROL, fol by JIGS scheduling, re status of IR178CK after 0300z (range is open). TUFF 15: B-52H, 11th BS, Barksdale AFB 0240 USB wkg Hickam GHFS w/immediate pp RAYMOND 06 (8th AF Command Center, Barksdale AFB, La), then requests pp to local number re family emergency. TUFF 17: B-52H, 11th BS, Barksdale AFB 0244 USB wkg Hickam GHFS w/pp Barksdale meteo, re wx at IR178T. SPIRIT 16: B-2A, 509th BW, Whiteman AFB, Mo 0247 USB clg mainsail, no joy, at 0249 clg Ascension, no joy. TIGER 35: B-1B 28th BW, Ellsworth AFB, SD 0253 USB clg mainsail, Hickam answers, req pp Ellsworth CP. RAYMOND 01: ACC Command Center, Langley, AFB, Va 0259 USB clg 'any station' for rdo ck. COPPER 6: 0323 USB wkg Offutt w/pp Kirtland AFB, NM DSN, re status of unid c/s, adv they will 'hangout' at AR track 674 as op's unable to pass any info as they have no power there. FORCE 17: KC-135R?, 141st ARW, Fairchild AFB 0324 USB wkg Hickam w/pp QUICKFORCE OP's (141st CP) re AR times scheduled for the "Red Forces" out of Nellis. ALEM 92: (spelled) 0452 USB wkg Hickam GHFS w/pp Ellsworth meteo. TROUT 99: 0511 USB wkg Hickam w/pp re ETA North Island of 0120L. UPSET 11: KC-135R, 128th ARG, 126 ARS, WI ANG at Mitchell Field, WI 1458 USB wkg Offutt GHFS w/pp Mitchell Field. At 1536 wkg Offutt w/pp UPSET CONTROL to pass ETA 1245L. ROPER 86: C-130 ANG, Dallas, Tx 1500 USB wkg Offutt w/pp Kelly AFB, Tx, base op's (makes sense w/call like ROPER!). LINT 64: No ID 1504 USB wkg Offutt w/pp Dover CP, ETA 1650z req customs/agriculture, has 53 pax, 4 pallets to off-load, alpha-1 for maint. Spelled c/s, hrd "LINT", poss was letter in front. RODD 13: (spelled) No ID 1523 USB wkg Offutt w/pp Westover CP re ETA. NAVY 50111: (BuNo 150111?) 1551 USB clg Offutt re radio ck. AADS: USAV Runneymeade (LCU-2001) 1557 USB clg mainsail, Offutt ans, req pp w/DSN (AAC2, harbormaster, Ft Eustis, Va) to pass posn/status report. CHILL 22: B-52 5th BW, Minot AFB, SD 1602 USB wkg MacDill w/pp RAYMOND 12 (Minot AFB, not the closed England AFB) re is aborting the range at point A3, enrt AR, ETA back is 1800z. HOIST 51: KC-10, 2nd ARS, 22 ARW, Barksdale AFB, La 1606 USB wkg Offutt w/pp unid meteo. JHAWK 41: B-1B, 184 BG, McConnell AFB, Ks 1621 USB wkg Offutt GHFS w/pp GUARD OP's. OCEAN 75: 1638 USB wkg McClellan GHFS w/pp to base op's, Wyoming ANG, Cheyenne Muni Apt, Wy, re departed Atlanta, ETA 1945z, will need 12,000lbs gas. ANVIL 02: C-130, 130th TAG, Yeager Apt, Charleston, WV 1646 USB wkg Offutt GHFS w/pp to their unit, passes ETA 2100z. NAVY LD10S: P-3C, VP-10 Red Lancers, NAS Brunswick, Me 1648 USB wkg Offutt w/pp unid base op's, passes ETA. NAVY LW337: P-3B, VP-68 "Black Hawks", NAF Washington D.C. 1703 USB wkg Offutt GHFS w/pp to VP-68 base op's re ETA. RAYMOND 10: Little Rock AFB, Ark, CP 1840 USB clg mainsail for several minutes, no joy. NAVY LC809: LC-130F/R of VXE-6 "Puckered Penguins", Point Mugu, Ca, 1854 USB wkg Offutt GHFS w/pp "duty

office" unid loc. VM-153: most likely USMC C-20 165153 2010 USB clg "Bayonne Global", no joy. CROWN 02: 2219 USB wkg McClellan GHFS w/pp unid DSN, don't think this was the same as the other CROWN xx HC-130P's we hear. JAWS 52: MC-130E (AFRES) AFSOC 2233 USB wkg Offutt GHFS w/pp Eglin meteo. (919th SOW at Duke Field, Fl or 16th SOW at Eglin?). ATLAS 02: 2236 USB wkg McClellan GHFS w/pp, BALBOA OP's at Howard AFB, passes ETA. SPAR 63: C-20 VIP flt 58th ALS, Ramstein AB, GER 2342 USB wkg MacDill w/pp Andrews meteo, command post, departed GVT bound Gander, NF, but is diverting Andy due to a malfunctioning fuel quantity indicator. (RB)

11181 BLUEEYES 1444 USB wkg REITERATE. MACDILL 0052 USB wkg SPAR 65 w/pp to RAMSTEIN. TALLTALE 2109 USB wkg NIGHTWATCH 01 (female opr). SLOWBALL 1829 USB wkg ABSTAINER "on triple one eight one" (did not use the Z200 designator). (JH) ARMY ARCHER 1842 USB wkg WGY916 for msg.,"H231840". (JJ) BLADE 01 0045 USB w/pp to base op's at Andrews, looking for directions to AIR FORCE 1 parking. (PS) Chalace Alpha: E-3 AWACS, 963rd AACS, 552nd ACW, Tinker AFB 1654 USB w/"ART" (Airborne Radar Technician section of the a/c) wkg Offutt w/pp to "ground maintenance" trouble-shooting a system problem. (RB)

11187 AFFLUENCE 1629 USB wkg IRONWORK. (JH)

11212 VENUS 74 1900 USB wkg VENUS 71 & Andrews VIP. (JJ)

11212.4 MAGIC CARPET SIERRA 2150 USB in comms w/HABITAT reports that he has KNIGHT 1 & KNIGHT 2 (unIDed a/c) strong (referring to VHF/UHF comms or maybe RADAR?) since KNIGHT 1 & KNIGHT 2 cleared the "Olympic" area. (JJ)

11214 SAM 26000 UTC? USB wkg ANDREWS w/pp to SAM COMMAND re parking, etc. (CM) ANDREWS 2354 USB wkg SAM 206, who seemed to be ex Nigeria, going to Quito & Lima. During a long pp, the ground party had a multiple echo on each word of his sentences. ALBROOK had been clg SAM 206 on 11175 just minutes earlier. (JH) VENUS 74 1900 USB wkg VENUS 71 & Andrews VIP. (JJ)

11217 TEAL 28: WC-130 53rd Wx Recon Sqd (AFRES), Kessler AFB, Ms 1655 USB, wkg MacDill on a discrete freq w/pp to poss Kessler, setting up some sort of remote broadcast link for radio station feed. (RB)

11220 SAM 206 1917 USB wkg ANDREWS. (JH)

11229 NIGHTWATCH 01 1355 USB wkg INDUCTOR (or sounds like) and also HEDGEROW (or sounds like). At 1532z, NW 01 w/26-character EAM transmitted at the same time as the same string on the GHFS. At 1805z, NW 01 wkg TEST____ (maybe TESTCOUNT), where they then moved to Z175. ROOMRENT 1518 USB wkg NW 01. (JH)

11232 Rescue 306 1450 USB w/pp w/Halifax Rescue through Trenton Military re a SAR op off the Nova Scotia coast. (CM) MAGIC 57 1951 USB w/moral pp via Trenton Military. (PS)

11244 OFFUTT 0401 USB w/a 66-character EAM: PD62OO..., followed by a 26-character EAM. OFFUTT 1620 USB w/a 20-character EAM disregarded in mid transmission for a FOXTROT broadcast prefaced with EYESTRAIN. VOCALIZE 1728 USB clg MAINSAIL & raised OFFUTT, looking for NIGHTWATCH wkg freqs: Z175/Z220/Z165. PORTABLE 1555 USB wkg MACDILL, w/MACDILL advising PORTABLE that MACDILL was having problems reaching NIGHTWATCH. At 1606z, APPALOOSA FARM clg NW 01 (part of the "FEMA" activity also on 11494.0.) At 1701z, unid station (could not make out call) passed TANGO ALPHA "alphacharacter" message, similar to activity on 21 Mar 96. Also numerous stations passing "HOTEL" datetime group messages (also being heard on 11494) At 1728z, station sounding sorta like AXEL ROD clg NW 01; then PORTABLE clg NW 01. At 1829z CHOGA 02 is active. At 1830z, OFFUTT clg CHOGA 03. NW 01 1733 USB receiving a TANGO ALPHA "alphacharacter" message from a station I could not id. At 1811z, NW 02 received a "TANGO ECHO" message from unid station (missed id, but it may have been MACDILL). Message seemed to consist of "TE TE TE TE TE TE TE TE TE TE TE TTTTET." At 1858z, TANGO 03 (sounds like) clg what sounded like SECONDARY CONTROL. NW 02 1649 USB clg & raised MCCLELLAN. MCCLELLAN asked NW02:"was it your station who injected M2Z2YM, over?" NW02 said no, and suggested that maybe it was NW 01, but he didn't know. At 1721, TOPIC 103 clg ATTENDOR or maybe ATTENDANT or somesuch and passed TANGO ALPHA DELTA. TOPIC 103 was up for rest of local afternoon passing incrementing TANGO ALPHA "alphacharacter" groups. At 1905z, NW 01 passed a HOTEL message (H221905). At 1810z, TELLTALE

wkg IMPURITY (sounds like). At 1812z, IMPURITY wkg NW 01; followed at 1815z with IMPURITY briefly wkg OFFUTT (signal check). At 1826z, a weak station clg NW 02. At 2146z, TALLTALE clg MAINSAIL & raised OFFUTT, req NW 01 wkg freqs: Z200/Z215. (JH) HAWK 87: B-1B crew training sqd, 28th BS, 7 BW, Dyess AFB, Tx 1509 USB wkg Andrews GHFS w/pp Dyess meteo re wx at unid IR entry point. LANE 04: 1738 USB wkg CONTENDER w/msg of one group. (RB)

11247 MAGIC 93: 1225 USB wkg Architect. req better freq, changed to 4742 then 9031 (CH)

11460 SPAR 65: 1130 USB wkg Andrews, rdo ck. primary F295 (11460), Secondary F731 (6683) (CH) ANDREWS 0008 USB wkg SAM 375 & what sounded like SAM 26000, with a long phonepatch involving software diagnostic activity regarding his SATCOM unit. They ended up clg someone at "COMSAT ONE". There was mention of something sounding like "A.S.I.D.", "AR West", and "AR West into Salisbury". Mention was made "...he is in Houston", an apparent reference to Sec of Defense Perry receiving an award in Houston that local evening. At 0152z, ANDREWS wkg SAM 375. ANDREWS 1530 USB wkg _____ (could not make it out), and moved to 6730.0. (JH)

11494 NW 01 2027 USB clg PEPRALLY, w/PEPRALLY finally wkg NW 01 at 2052z. NIGHTWATCH 01 1434 USB wkg OVERSLEEP; at 1435z BIGBURLY wkg NW 01; at 1456z, RAILBIRD clg what sounded like MAGNOLIA (but MAGNOLIA was not heard in the net before or after this.) 1700 USB Various FEMA stations (many of which are the MERS things) wkg each other passing HOTEL'dtg' messages. Stations such ast WGY 911; WGY 916; WGY 918; WGY 913 (aka DOLITTLE/FASTBALL during 22 Mar 95 NW net); plus AMERICAN GIRL, AMERICAN FLYER, and other calls I could not id. At 1910z, AMERICAN FLYER wkg AMERICAN GIRL. At 1915z, AMERICAN FLYER wkg WGY 916 (not heard here in coastal Texas); then WGY 913 wkg AMERICAN FLYER (all passing HOTEL messages.) At 1919z, SERVICE CENTER wkg "ZERO FIVE" in clear and secure voice (there was some "normal" federal traffic on this freq in addition to the FEMA stuff.) CULTIVATE 1401 USB wkg NW 01 and entered the net. At 1404z, there were lots of SELCAN pulses responding to each burst, followed by secure voice comms (the "normal" inhabitants of this freq.) At 1408z, NW 01 req that CULTIVATE move to ZULU 211; then told CULTIVATE that NW01 was going monitor-only for two hours & was to meet NW01 after that time on ZULU 211 or via "GLOBAL."ZULU 211 is tentatively suspected of being 11244, or maybe not. NW 01 then told CULTIVATE that LASTDATE was on ZULU 185 (9089). (JH) Nightwatch 01 0014 USB clg Rarebird. (KW2) WGY916: FEMA MERS, Denton, Tx? 1915 USB wkg 'American Flyer' w/group msg, at 1926 WGY901 w/same. (RB)

12035 TALLY HO OP's 2215 USB wkg Reach 161, stated that they refuelled 6 chicks, total of 58,000 lbs., ops normal. Gave lat/long, was plotted as just outside of Azores. Who is "Tally Ho Ops"??? (ANN)

12076 ZRX: Unid, S. African 0810 CW de zrx cw marker. South Africa-exact location ??? (MS4)

12122.5 NNNOCMS: USCGC Courageous 0043 USB w/NNNOFMN (Omaha NE shore station) for pp traffic. First logging of 12meg. (MR2)

12808.5 VTG: Mumbai, India 1145 CW marker and marine wx. (MS4) (Indian Navy -LOGS)

13076.5 JNA: Tokyo, JAPAN 1325 CW marker "CQ CQ CQ DE JNA JNA JNA". (CG2)
JNA: JAPANESE NAVAL TOKYO 0600 CW CQ marker. (DW2)
(JNA is JMSA, Japanese Maritime Safety Agency, Tokyo, J -LOGS)

13200 COLD DUCK: 0042 USB wkg Hickam GHFS w/pp to 339 DSN...RETALIATE, then passes an 11 group msg. (RB) Hickam (USAF) 2140 USB in comm's with Dagar-01 (Day-Gar) & Golf-0Q, Dagar-01 was after the wx (SB)

13204 SAM 27000 2239 USB wkg Andrews VIP for data freqs: 6830.0, 8026.0, & 9017.0 (JJ)

13217 SAM 27000 2151 USB enrt to the Philippines, wkg Andrews VIP for pps to the Pentagon and Hickam AFB. (JJ)

13242 NIGHTWATCH 01 1637 USB w/26-character EAM, trailing the GHFS broadcast of same. At 1644z, WINDMILL clg & raised NW 01. Followed by COGNIZANT calls NW 01 but raised WINDMILL, to enter the net. Advised that TWILIGHT is in the net, and HOUSETOP is in the net on 9016. At 1650z, PUBLISHER clg NW 01, then wkg COGNIZANT. MACDILL 1610 USB, expecting TESTPLUG for some data work, responds to a call from REACH 65 who wants a pp (and who probably moved here after

hearing MACDILL send TESTPLUG here from 11175, trying to get a request in before TESTPLUG showed up). MACDILL shoo's REACH 65 back to 11175, and then works TESTPLUG. RAFTLOG 1844 USB wkg MACDILL at 1847z, & into data at 1859z. NW 01 1929 USB wkg SKILIFT, after moving him here from 9016. (JH)

13245 NIGHTWATCH 01 1457 USB wkg SYCAMORE. At 2041z CARDGAME clg NW 01. NW 01 2002 USB clg NEONGAS. NEONGAS clg NW 01, but did not heard NW01's response. (JH)

13247 Andrews Mystic Star UTC? MODE? (reconfirmed 8/9/96). (TF)

13907 DUTCHBOY 1826 USB wkg NIGHTWATCH 01. At 1943z, NW 01 wkg WAR46 & set this freq up as "primary" for WAR46. (JH) PINGPONG 47 2346 USB wkg PINGPONG to advise that 47 is RTB because of equipment problems. (JJ)

13927 AFA2AG: USAF MARS Rockledge, FL 2034 USB Clg Any station-no replies. AFA2HF: USAF MARS Orange City, FL 2138 USB Wkg AFA2XZ- MARS-Salt Spring, FL. AR310: Western Sahara 1937 USB Wkg AFA1YV. (IB)

13997.5 AAA3USA: Army MARS, Ft Meade, Md, US 1415 USB (Eastern Gateway) wkg AAR2USV w/SHARES excercise msg. (RB)

14384.5 CIW822: Canadian CFARS St Johns, NB, CAN 1724 USB wkg CIW202, CFARS Vancouver, BC on "Bravo". CIW202: Canadian CFARS Vancouver, BC, CAN 1730 USB wkg CIW82, CFARS Greenwood, NS re any traffic for him, neg. (RB)

14396 AAT9JA: USAF MARS 2057 USB w/SHARES excercise msg tfc w/unid station. (RB)

14441.5 NNN0CAA: unid 2254 USB switching to 14467.0 kHz for pp with NNNOUTO (Shore station-WA), had been clg at 1715 also. (MR2)

14441.5 NNN0CBF: USS Hawes 2332 USB w/NNNOUTO (Shore station-Republic WA). NNNOAFS: unid 1831 USB w/NNNOYNR (also Unid shore station) re band conditions. NNNOCBE: USS Leyte Gulf 0211 USB clg for pp, later wkg NNNOCCL (Unidentified). NNNOCBE: USS Leyte Gulf 1956 USB w/NNNOKRQ (OH shore station) moved to 14470.0kHz for pp traffic. NNNOCBF (USS Hawes) 2013 w/NNNOSNW (FL shore station) tried to set up pp traffic, but prop NG. NNNOCBS: USCGC Durable 2232 USB clg NNNOIGD (FL shore station), moved to 14470.0kHz for pp traffic. NNNOCCK: USCGC Bear 2036 USB w/NNNOKRQ (OH shore station) moved to 14477.0 for pp traffic. NNNOCFP: USS Anzio 1843 USB clg for any Stateside stations for pp traffic-after 10 minutes-no joy. NNNOCMS: USCGC Courageous 0040 USB w/NNNOFMN (Omaha NE shore station) moved to 12122.5kHz for pp traffic. NNNOCOL: Unid ship 2310 USB w/NNNOPRQ (KY shore station) moved to 14391.5, but freq was occupied with other pp traffic; then moved to 14818.0 for executed pp traffic. NNNOCRU: USS Essex 2015 USB wkg NNNONUW (NAS Whidbey Isl WA) re radio problems. NNNOCVN: USS Briscoe 1954 USB w/NNNOFMN (NE shore station) moved to 14463.5kHz for pp but no joy--too much QRM. NNNOCXB: USS John F Kennedy 2311 USB w/BOOMING signal w/NNNOUTO (WA shore station) moves to 14483.5kHz for pp traffic. NNNOCXK: USCGC Gallatin 2038 USB w/NNNOKRQ Cinn OH shore station) moved to 14470.0kHz then to 14391.5kHz but conditions NG for pp. NNNOCXZ: USS Vella Gulf 2300 USB w/NNNOTDU (Unid Shore Station) switching to 14470.0kHz for pp. NNNOCZI: USS Merrimack 2148 USB wkg NNNOUTO (Shore station in Republic WA-switching to 14467.0 for pp. NNNOCZI: USS Merrimack 2240 USB w/NNNOHLQ TX shore station, moved to 14470.0kHz, but too much QRM: then moved to 14477.0kHz but again too much QRM, finally settled on 14383.5for pp traffic. NNNOCZN: USS Boone 2306 USB w/NNNOJHR (Unid shore station) moved to 14391.5kHz for pp traffic. NNNOCZN: USS Boone 2138 USB w/NNNOMPN (Camp Pendelton CA MARS station) moved to 14383.5kHz but too much QRM; moved to 14477.0 kHz, again too much QRM BUT NNNOIGD (FL shore station) directed USS Boone to 14391.5kHz where successful pp traffic took place. NNNOCZO: USS Stephen W Groves 2257 USB w/NNNORRC (Unid shore station) moved to 14463.5kHz but too much QRM. NNNOIGD: Fl shore station 2147 USB w/NNNOCXZ (USS Vella Gulf) went to 14467.0 hen to 8031.5 but could not get good signal for pp. NNNONDB (Unid ship) 2035 w/NNNOJHR (Unid TX shore station) moved to 14477.0kHz for pp traffic. NNNONDP: Unid 2214 USB w/pp w/NNNOHLQ (TX shore station) switching to 14470.0kHz. NNNONIG: Naval Tech Center-Pensacola, FL 2034 USB w/ann he is available for pp for afloat stations. NNNONUW: NAS Whidbey Isl WA 1912 USB monitoring freq for traffic. NNNORRC: Unid shore station 2311 USB offering pp services. NNNOSNW: FL shore station 2014 USB att

to reply to NNNOCVN (USS Briscoe) call-no joy. NNNOUTO: WA shore station 2005 USB clg all ships for MARS traffic. NNNOXPQ: FL shore station 2002 USB clg all ships for MARS traffic. (MR2) NNN0NDP: Unid, helo? 2200 USB wkg NNN0PRQ re has routine pp traffic. (RB)
14465 AAT7DQ: USAF MARS Levenworth, Ks 1608 USB wkg unid station w/SHARES excercise msg. (RB)
14615 NAVY AC623: EA-6B VAQ-130 "Zappers", NAS Whidbey Island, WA 1938 USB wkg Ascension w/moral pp thru NAS Whidbey Island. (RB)
15016 LY270: 1220 USB clg Mainsail, no joy. REACH 2G5: 1134 USB wkg Lajes enrt LERT 1700z. pp Rota cp and metro, tail no: 870027, mission no: 2G5, blocks at 1310z. REACH T2: 1145 USB wkg Lajes pp Ramstein AMCC & metro, tail no: 60209, mission no: 11T2. NAVY LW998: 1440 USB pp M'sail metro. wx for EKYT (CH) Reach 11V3 (60133) 0910 USB from Rota to Sigonella then Ramstein. (JP2) Reach 60035 1758 USB wkg Elmendorf, pp metro/Pirep rpt as KC10 acft located N41.154 W99.482 Fltt Lvl 37K;----Interesting that Offutt GHFS and or UHF was not used (acft location was about 40 miles west of Omaha (Anselmo, NE)). (KW2) NOAA 43 (P-3 Hurricane Hunter) 2135 USB wkg Albrook GHFS w/pp to National Hurricane Center, Coral Gables, FL, passing current wx conditions from drop sondes & other instruments in Hurricane Edouard. NHC adv that USAF recon a/c should on-scene soon. AAEH: USAV Macon (LCU-2003) 1506 USB wkg Ascension GHFS w/pp AAC2, Fort Eustis, Va, passes posn/status report (2428N/07441W, bound Portsmouth, Va). All is well. KING 88: USAF C-130 aero rescue 1510 USB a/c, wkg Albrook w/pp KING OP's at Patrick AFB, fol by pp Patrick meteo for 1730z wx. EPIC 58: C-130, unit? 1553 USB wkg MacDill w/pp Charleston base op's, passes ETA, req customs & agriculture. ROPER 85: C-130 ANG, Dallas, Tx 1624 USB wkg MacDill GHFS w/pp to a guard unit in San Antonio re vehicle for crew transport. HOIST 34: KC-10, 2nd ARS, 22 ARW, Barksdale AFB, La 1650 USB wkg MacDill w/pp "KC-10 Op's" at 440 DSN, re status of mission. SPAR 19: EC-135, 19th ARW, Robins AFB, Ga 1715 USB CINCCENT's a/c, wkg MacDill GHFS w/pp BANNER CONTROL re tanker times. ASPEN 99: 1917 USB wkg MacDill GHFS w/pp RAYMOND 27, ETA 2300z, w/pax & baggage, req customs, 2nd pp to what sounded like "MOGAS OP's" (missed DSN). NAVY LV745: P-3B or EP-3J of VP-66 "Liberty Bells", reserve PATWING ATL, NAS Willow Grove, Pa, 2004 USB wkg MacDill GHFS w/pp unid NAS re location & time of TLMR event. TURBO 23: 2017 USB wkg MacDill GHFS w/pp, SHOCKER CONTROL (McConnell AFB, 384th BW CP still?) w/ETA, also passes crew, pax & load info. HAWK 83: B-1B crew training sqd, 28th BS, 7 BW, Dyess AFB, Tx 2105 USB wkg MacDill GHFS w/pp Dyess meteo, located 100 miles NW of Amarillo, Tx. SENTRY 32: USAF E-3 AWACS 2113 USB wkg MacDill GHFS w/pp DEERHUNTER at 984 DSN (McChord AFB, Wa?), then ID'ed as CHALICE CHARLIE by DEERHUNTER, confirms active link is B28. SHARK 13: 2116 USB wkg MacDill GHFS w/pp, LOBO, departed SKAP at 2110z. AFFLUANCE: 2121 USB wkg MacDill GHFS w/pp, NIGHTWATCH 01, then authenticates out of the net. NOAA 43: WP-3D Hurricane Hunter 2126 USB wkg MacDill w/pp National Hurricane Center, Coral Gables, Fl, passes wx data line info from Hurricane Edouard. TOTEM 76: 2217 USB clg MacDill GHFS, no joy for sev mins. (RB)
15034 Edmonton Military 1833 USB airfield obsv/forecasts. (KW2)
17976 SENTRY 60: USAF E-3 AWACS 2151 USB wkg Offutt GHFS w/pp 359 DSN. (RB)
18019 Ascension GHFS: Ascension Isl 1955 USB clg NAVY AC-623 after they lost comms on 14615. (RB)

=MISC=

260 YAR: Yaritagua, Venezuela (PvdE)
260 DCF: Canefield, Roseau, Dominica (my list says DFC, thought I heard DCF very weak, any clues????) (PvdE)
270 CUP: General Jose F. Bermudez, Carupano, Venezuela. (PvdE)
276 IBL: (approx) UNID, probably south america. (PvdE)
287 SMR: Simon Bolivar, Santa Marta, Colombia. (PvdE)
294 ZIP: Zipaquira, Bogota, Colombia. (PvdE)
300 ABL: Ambalema, Colombia. (PvdE)
305 BNE: Hewanorra Intl., St Lucia. (PvdE)
311 TBG: Taboga Island, Panama. (PvdE)
314 FXF: Le Lamentin, Fort-de-France, Martinique. (PvdE)
315 UPI: Barranca de Upia, Colombia. (PvdE)

320 YTC: Itacoatiara, Brazil. (PvdE)
321 PJB: Flamingo, Bonaire, Neth. Antilles. (PvdE)
323 TAB: Crown Point, Scarborough, Tobago Island, Trinidad & Tobago.(PvdE)
328 FOF: (approx) UNID (again Fort-de-France????). (PvdE)
337 BOG: (approx) UNID (Bogota?? listed on 388). (PvdE)
345 BGI: Adams, Bridgetown, Barbados. (PvdE)
353 HOT: Higuerote, Venezuela. (PvdE)
356 TIM: Timehri Intl., Georgetown, Guayana. (PvdE)
360 BFI: Beef Island, Virgin Isl.,(American ???????). (PvdE)
362 GND: Point Salines, Grenada. (PvdE)
369 ZDX: VC Bird Intl., Antigua. (PvdE)
376 ZIN: Great Inagua Island, Bahamas. (PvdE)
382 POS: Piarco, Port of Spain, Trinidad & Tobago. (PvdE)
387 PV: Providenciales Intl., Turks & Caicos Islands. (PvdE)
391 DDP: Dorado, San Juan, Puerto Rico. (PvdE)
400 HIV: De Las Americas Intl. Santo Domingo. (PvdE)
400 PIE: (approx) UNID (Pointe-a-Pitre?????). (PvdE)
400 GAL: (approx) UNID (near Guadaloupe??????). (PvdE)
402 SJE: San Jose del Guaviare, Colombia. (PvdE)
405 BVI: Boa Vista Intl., Brazil. (PvdE)
415 SLU: Vigie,Castries, St Lucia. (PvdE)
3810 HD210A: GUAYAQUIL ECUADOR TIME STATION 0657 AM. (DW2)
4025 M-2: 2100 CW 39 5FG's, id: 621. (CK)
4042 Tonga 0700 USB Inter-island telecom in Tongan language (AB3)
4045 VKL59: 0925 USB Queensland Australia land mobile net - also VKL41 & other mobiles discussing large bush fire 100 km west of Brisbane.(AB3)
4458 NTMS/NTCN exercise USB w/extremely weak sigs. (JM)
4615 DER: MoI Bonn, D 1110 CW VVV VVV VVV DER. (ANEE)
4742 M-17: 2110 CW 20 5FG's for id 66323. T3AE: 1856 CW wkg "S4HM". (CK)
4743 T3AE: 1856 CW wkg "S4HM". (CK)
5116 JMW9: unid 1305 CW MARKER --AQH4 AQH4 DE JMW9 JMW9. ID? (MS4)
5140 Oklahoma Operation Secure Net 1506 USB Unid station clg WNBM839, Stillwater, OK. Moved to 7477.0 kHz (USB) at 1514 where WGY906, FEMA, Denton, TX checked in. (JM)
5211 WGY912: FEMA Special Facility, Berryville, Va 1339 USB wkg KGA93, FCC unid loc, w/SHARES exercise message. (RB)
5277 PANTHER: DEA, Nassau, Bahamas 2359 USB wkg 32C for flight op's normal; at 0010 wkg 12C for same on DEA "Alpha". (RB)
5301 German Numbers 0205 USB 5LG by YL, done (w/"Finish") @ 0219. //9320.(MF)
5314 FOX3: 0802 CW "VVV VVV DE FOX3 FOX3 64K", "FOX3 QRU K". (CK)
5317 GR2R: 1300 CW. (CK)
5422 Unid Numbers 1920 USB EE female voice operator-5 fig. (MS4)
5437 MOSSAD, ISR 1800 USB ART2 Broadcast. (HS)
5468 HWQT: 1615 CW until 1643Z. (CK)
5508 M-1: 0630 CW Numbers, 5FG's. (CK)
5741 Striker 1, 44th Medical Brigade, Ft. Bragg, NC 2030 USB wkg KGD34, NCC, Arlington, VA for SHARES traffic. (JM) KGA93: FCC Washington D.C. 1344 USB wkg KGD34, NCS Arlington, Va w/relay for AAD1DE during Shares Exercise. At 1347 wkg KDG96. (RB)
5818.5 Unid 1100 USB Filipino phone net. (AW)
5820 MOSSAD, ISR 1805 USB YHF2 Broadcast. (HS)
6420 SWOP: Greek Customs cutter "AL-20" at 0530 in USB. (CK)
6540 Two unid Filipino stns 1040 USB pp in the aero band. (AW)
6721 Unid Filipino operator 1025 USB Long shopping list. (AW)
6765 HSW: Bangkok, Thailand 1308 USB wx b/cast. (AB2)
KNY62 1459 USB w/NTMS/NTCN exercise. (JM)
6870 KUV64, FAA, Hampton, GA 1300 LSB clg stations for the FAA Southern Net. Heard every Wednesday, same time, same frequency. (JM)
6959 Lincolnshire Poacher 2132 USB (5F/w) //12603. Tones/tune & off @ 2145. (MF)
6970 CIA counting station, D (near Frankfurt) 0500 USB messages to 404 //9160 kHz. (ANEE) E-5: 0819 AM Numbers 3-2f/EE/YL. (CK)
7404 BND numbers station, D 2030 USB GK broadcast. (ANEE)
7567 Unid 1207 USB 3-way conversation in very Scottish accent, read out 49/89, 42/69, 43/58 at 1256z. Any ideas? (AO)
7650 Unid 2325 LSB SS-accented male wkg an American male who apparently was at some site somewhere...an engineer was heading out to the site

tomorrow morning. Also talk of the tractor and bulldozer out there. (TB)
7671 33: 0910 USB Philippines telecom net. 33 calling "Control" numerous stns on channel. Much whistling and general bedlam (AB3)
7692 Philippines Telecom net 0920 USB heavy traffic in local languages -similar to 7671 log (AB3)
7700 Unid 1039 USB filipino phone net. (AW)
7737.5 Unid 0920 USB Very busy Filipino net w/many comms going at once. (AW)
7746.5 CIA Counting Station, D 2000 USB messages to 117. (ANEE)
7870 Unid Caribbean male 2231 USB arranging some sort of meeting at Pete's house (TB)
7904.9 UNID: 1944 CW F1 w/200hz shift, sending slow (15wpm) 5LG's w/accentuated letters. QGN5 tactical callsign? (DW)
7972.7 Unid 1100 LSB Pacific island phone net. (AW)
8014 CIA counting numbers 1100 USB 3-2 groups by YL // 10597. (AW)
8038.5 WWJ74, FHWA, Cadillac, MI 1243 USB clg AAB1DE, USNG, Wilmington, DE. SHARES exercise. (JM)
8106 HNMC: 0850 CW. (CK)
8125 KIT88, FAA, Martinsburg, WV 1445 USB clg FAA Eastern Net. Voice privacy (VP-100) in Key 1 to be used today. Meets each Wednesday at 10:45 AM local. (JM)
8173 BND numbers station 2030 USB GK broadcast. (ANEE)
9030 Unid: British male 2310 USB w/in-flight reports...said would call back at 0000 (TB)
9064 WGY912, FEMA, Berryville, VA 1548 USB & KNY80, NCS, unknown location on probable frequency NC20 for NTMS/NTCN exercise. (JM)
9068.6 KNY62 1519 USB and WGY908 on NC04 for NTMS/NTCN exercise. (JM)
9070 CIA counting station, D (near Frankfurt) USB //11072 kHz. (ANEE)
9160 CIA counting station, D (near Frankfurt) 0600 USB messages to 404 //6970 kHz. (ANEE)
9240 Delta Oscar 0750 USB clg radio check, followed by long tfc between two station. Presumed Pacific helicopter Company in Goroka PNG. Used to be on 9220. (AW)
9263 Unid numbers station 1128 USB EE/YL reading 5FG's, not on 11545khz// (EW)
9274.6 KNY62 1515 USB wkg WGY912, on NC30 w/app NTCN (National Telecommunications Coordinating Network) only exercise. . (JM)
9320 German Numbers 0205 USB See 5301.(MF)
9331 Unid station 1217 CW w/5LG's, off with sk sk sk at 1220. (JM)
9415 Unid Numbers 1425 AM 3 attn/10ng/3attn 10ng in ss can also hear other male ss voices in background sounds like they are in a large bldg that is mostly empty due to the echo of the voices in the background. (RT2)
9436 Unid 1305 CW 31 wpm unid 5ng/with 5ng &ltrs mixed. (RT2)
9958 4F SPANISH NUMBERS STATION 0326 AM YL/SS. (DW2)
10000 FAA type SELSCAN transmission 0218 USB faint. (JM)
BPM: Xian TS 1530 CW w/ID & time sigs. (TD2)
10493 KNY84, NCS, Sweetwater, TX 1543 USB clg a FEMA station. KNY80 1500 USB wkg WGY912, moved to frequency NC20, NTMS/NTCN exercise, NC20 not located. (JM) KNY62, NCS at Bedminster, NJ 1431 USB wkg WGY912, FEMA, Berryville, VA thru another FEMA station. WGY912 says the exercise will start at 1500 UTC. Possible NTMS/NTCN exercise. (JM) WGY908: FEMA Dist.8, Denver, CO 1635 USB wkg KNY80 w/exercise tfc. WGY910: FEMA Bothwell, WA 1701 USB wkg KNY80 w/radio ck. WGY906: FEMA Denton, Tx 1742 USB wkg KNY80 w/NCC exercise message. (RB)
10891 WWJ48, FHWA, Lakewood, CO 1341 USB standing by for SHARES traffic. (JM) WWJ48 1408 USB w/ART. WWJ48 1410 USB clg WWJ74 to take net for a break. (GG) (WWJ48 is FWHA Lakewood, Co & WWJ74 is FWHA in Cadillac, Mi -LOGS) WWJ48: U.S. Federal Highway Admin (FWHA) station, Lakewood, CO, US 1602 USB wkg KWP49, unid, w/SHARES exercise msg. (RB) SHARES Exercise 96-02 1500 USB w/callsigns hrd wwj48, aa3usa, & aa4ll. (RT2)
10987 UNID: (KEMP) 2054 CW Wkg unid "qsa? K". Clg DDPK, OA8N, Z4NK. (DW)
11072 CIA counting station, D (near Frankfurt) 0700 USB //9070 kHz. (ANEE)
11245 Unid Numbers: Station 1415 AM w/YL, very weak here. (RB)
11448 KNY62 1521 USB and WGY908 on NC05 for NTMS/NTCN exercise. (JM)
11494 Omaha 15? 2120 USB wkg HAMMER re confirming Savannah Sector A2 freq of 165.2375. HAMMER adv std by then back with confirmation. LIMA 100

2015 USB clg HAMMER with no joy. Then same OP id'd as LONGHORN calls HAMMER again with no joy. (EA)
11596 Unid 1028 CW CVAM DE XFLG don't know what is going on here, off at 1038 w/zlq zsu zbo ee k k. (EW)
12314 BND numbers station, D 1000 USB WL broadcast. (ANEE)
12603 MI6 Lincolnshire Poacher, CYP 1835 USB Numbers. (HS)
Lincolnshire Poacher 2134 USB QRM fm SITOR sigs, see 6959. (MF)
13200 Unid 0725 USB Two unid Pacific island stn w/pp on military freq. (AW)
13457 KJK77, FAA, Palmdale, CA 213 USB attempting pp for a/c Reach 444. Unsuccessful, not SHARES related. KIA21, FAA, Oklahoma City, OK 1630 USB acting net control (for KCP63) with Western Net roll call in VP-100 mode. Every Wednesday at 10:30 AM Mountain Time. (JM)
13560 BMB: Taiwan meteo 1017 cw wx report for Taiwan Strait etc. (EW)
13722 KBW49, DOE, Las Vegas, NV 1623 USB clg any station for SHARES traffic. (JM)
13874 CIA counting station, D (near Frankfurt) 1200 USB messages to 141 //15822 kHz. (ANEE)
14686 ATLAS: Customs Over the Horizon Enforcement Net (COTHEN) Rockwell-Collins, Cedar Rapids, IA 1545 USB wkg FLINT 941 (DEA a/c) re ETA to "101", 101 then works ATLAS to adv they copied direct. (RB)
14752 Unid: 2048 USB w/ANDVT comms for several mins. (RB)
15682 MI6 Lincolnshire Poacher, CYP 1842 USB Numbers. (HS)
15980 Mossad Int. Serv. 11.40 AM 5Lgs no ID (PB)
15997 unid 1344 CW 26.5wpm handkeying, every word repeat one time, axeaeri axeaeri =E4cman =E4cman i0id i0id anelae anelae =E4li =E4li=' etc. some parts are separated by 'iii iii' (PB)
16610 Unid 0216 USB Czech or Polish stn w/pp. (AW)
16680 MINAFCET Kinshasa 1305 CW w/FF admin arrangements academic awards ceremony. (TD2)
18415.2 8BY: F 1146 CW Listed as FF Intelligence in WUN logs. (RH2)

This months contributors:
(AB2) Art Blair, Orangevale, Ca, USA (by mail): NRD-515, M-7000
(AB3) Andrew Brill, Auckland, New Zealand: Icom R-70, Hoka Code 3
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(ANEU)Anonymous, Europe too
(ANNN) Anonymous, no location
(AO) Adrian O'Leary Cork City, Ireland: Sony SW-77
(AP) Andre Plourde, Trus-Rivieres, Que, Canada: R5000, Hoka Code-3
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(BA) Brian Arsenaul
(BDS) Brent D. Saylor, Pa, USA: Icom R-70, AEA CP-1 TU
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(MS4) Mohammad Sultan, Port Louis, Mauritius: NRD535D, Universal M-1000
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(PJ3) Paul Jackson, Manchester, England
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(RH2) Robert Hall, Cape Town, S. Africa: Icom R-71E, M7000 V.6.03
(RRR) Ralf R. Rademacher, Koeln, Germany
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(SB2) Steve Blackmore, UK: AOR7030
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(TD2) Tom Davies, Grahamstown, South Africa: R-70, ZSRX vert ant.(by mail)
(TF) Terry Ford (relayed by e-mail)
(TK) Takashi Kuroda, Tokyo, Japan: WJ HF-1000/Racal RA67906M R2174(P)URR, M7000/8000
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

WUN-v02
\\\\\ WORLDWIDE UTE NEWS Club ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ WUNNEWS Vol. 2, No.10 October, 1996 ////
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If you have problems in this, or need further information contact Stan Scalsky at: sscalsk@atc.ameritel.net

That's all it takes. There are no dues. A paper copy of the WUN Club newsletter can be obtained via our WUN publisher, Tim Braun, at WUN Publishing, P.O. Box 16533, Washington D.C. 22041-6533, USA, for the costs of printing & mailing at a rate of U.S.$1.50 per issue.

If you are reading this newsletter from another source, such as a BBS, please let us know!

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From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

* Within a few months we will enter our third year of publication and existence for WUN. It seems as though WUN, and it's newsletter WUNNEWS, are popular. But our editors are getting very little input. When WUN was first formed, it was envisioned that the newsletter would pass "news" onto the members that was not time sensitive. Thus, bandwidth on the listserver would be saved and more people could afford to remain subscribed due to the high volume of e-mail over the list being kept stable somewhat, and the list would handle the more time sensitive logs, and posts. At first this concept worked very well, but over the last 6 months or so, the flow of information to our editors has trickled to a halt. And posts of "information" have increased. Indeed some even have taken to posting their own personal 'newsletters' over the WUN listserver. While this is not prohibited by list rules, it makes one wonder if the editors & staff should continue to spend well over 250 hours preparing and sending the WUNNEWS newsletter out each month. Or has it's time come to an end? We are also having a hard time keeping certain column editors due to the lack of input from members. So I guess the members will decide if we should continue publishing a free electronic issue. With well over 1,000 people receiving WUNNEWS, we should be able to get more support. So, if you find an interesting web site, share it, but share it via your editors in WUNNEWS and not by making a post over WUN. If you find some interesting ship, aircraft, or military information in a magazine or internet source...share it. Find some hot digital stuff, share it via the newsletter and give your editors a little support. We will and do give credit to those who forward the info, and even welcome short articles on topics of interest. Remember, WUN is not a newsgroup, it's not a talkgroup, but rather a non-profit hobby club and WUN is a club list. A club depends on it's members to participate and share info about the hobby.

WHAT'S INSIDE:

o Membership News by Mike Wolfson
o International Civil Aero by Tony Orr & Peter Ivakitsch
o Ask WUN!
o Digital Review by Ary Boender
o The WUN Military Column by Paul Jones
o Nautical News by Day Watson
o New Products, Books, News and Reviews by R.D. Baker
o The QSL Report by Martin Barry
o Utility Round-up by Ary Boender
o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson3@bright.net

Welcome to the October edition of the WUN Membership News. I'm happy to report that the club membership continues to expand. At the beginning of the month, we had a total of 998 total people subscribing to either the WUN, WUNNEWS or WUN-DIGEST lists or receiving WUNNEWS by mail. Below is a table comparing the current totals with those from last month and one year ago.

	10/96	9/96	10/95
WUN	675	661	470
WUN-DIGEST	89	79	14
WUNNEWS	191	186	170
Mail	43	43	28
BBS (non e-mail)	152	152	n/a
Total Members	1150	1121	

As promised, I did a membership survey of the members who subscribe electronically to determine how many members we have from each country. With the spread of major Internet providers the survey did not produce the conclusive results I expected.

Most of our members, 595, had Internet addresses that made it impossible to determine where they lived. These included Compuserve accounts, various .net sites and other identifiers that masked the country of origin. In the past, I had assumed that .net and .org identifiers indicated a US location. I could not make that assumption though because several people that I know live oversees had net addresses with these elements in them.

Of the locations I could identify, the single country with the largest representation was the United Kingdom with 99 members. Add in the member with an address from Great Britain and the total is an even 100. In second place is the Netherlands with 37 members. Third place is Australia with 33 people. Rounding out the top 10 are: Germany 29, Canada 23, Italy 21, Sweden and the US are tied with 17 members, Ireland 13, New Zealand 12 and South Africa 7.

Other countries in no particular order include: Norway, Japan, Greece, Mauritius and Spain 3; Portugal and Finland 4; Brazil and France 5; Poland, Peru and Austria 2; Switzerland 6, and Taiwan, Malaysia, Belgium, Denmark, Singapore and Iceland all with 1 representative.

I'm still interested in receiving information for the membership database. If you would like to be included,
please send me some e-mail. Here is the survey:

E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line

followed by a carriage return. Please do not include the question itself in the answer, just the information requested. If you're sending me a revision please indicate that in your e-mail.

That does it for October. Have a good month and I hope you are able to do some good listening. Mike

==========

INTERNATIONAL CIVIL AERO

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Welcome again to the exciting world of civil aviation and HF! This month we have PART TWO of the DELTA TRANSATLANTIC FLIGHTS listing, a feature on one of the more challenging areas in HF DX, DOMESTIC HF IN CANADA; we'll continue with an updated listing of POLAR MWARA and ACC FREQUENCIES; PART ONE of our special feature on TRANSATLANTIC FLIGHTS TO EUROPE FROM WCNA follows as part of AIRLINE NEWS this month. So, without further adieu, on with the show, and as always unless otherwise noted, all times are local.

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DELTA TRANSATLANTIC FLIGHTS (PART TWO)

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DL64  ATL-MAN L15
DL65  MAN-ATL L15
DL70  JFK-CPH 763
DL71  CPH-JFK 763
DL72  JFK-FRA L15
DL73  FRA-JFK L15
DL76  JFK-MUC 763
DL77  MUC-JFK 763
DL80  JFK-AMS L15
DL81  AMS-JFK L15
DL82  JFK-NCE L15
DL83  NCE-JFK L15
DL84  JFK-MXP 763
DL85  MXP-JFK 763
DL92  JFK-TXL 763
DL93  TXL-JFK 763
DL106 JFK-FRA 763
DL107 FRA-JFK 763
DL108 ATL-MAD L15
DL109 MAD-ATL L15
DL118 JFK-ORY L15
DL119 ORY-JFK L15
DL122 CVG-ZRH M11
DL123 ZRH-CVG M11
DL124 ATL-BRU 763
DL125 BRU-ATL 763
DL128 ATL-SNN L15 OPERATES 246
      DUB-ATL L15 OPERATES 357
DL129 ATL-DUB L15 X246
      SNN-ATL L15 X357
DL132 JFK-ATH 763
DL133 ATH-JFK 763
DL140 JFK-BRU L15
DL141 BRU-JFK L15
DL146 ATL-VIE 763
DL147 VIE-ATL 763
DL148 JFK-FCO 763
DL149 FCO-JFK 763
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DOMESTIC HF IN CANADA-Tony Orr

Recently I had the chance to DX 5680 kHz with some interesting results. I

thought it would be a good idea then to update us as to what is happening in Canada as far as domestic HF radio goes. This information has been supplied to WUN by Transport Canada, and should be fairly reliable and up-to-date. However, should any of you seasoned Canadian domestic DXers note an error or an omission, please contact one of us and we'll make the correction. Some of these stations may have limited operations, and perhaps transmit a few times a day if not per week, if hardly at all. Patience is certainly a necessary virtue to have when monitoring any of these freqs, but all that hard DXing will have really paid off when you hang that QSL card from Red Sucker Lake, Manitoba on the wall of your shack! Here we go!

Station name/Province	Coordinates	Notes
Alert NWT	N50 34 56 W126 54 56	5680, 6705 (MIL), 11232 (MIL)
Baker Lake NWT	N64 17 56 W096 04 40	5680
Berens River MAN	N52 21 32 W097 01 06	a/g 4895
Bloodvein River MAN	N51 47 00 W096 42 00	a/g 4895
Brochet MAN	N57 53 25 W101 40 42	a/g 4895
Churchill MAN	N58 44 14 W094 03 26	5680
Cross Lake MAN	N54 36 36 W097 45 38	a/g 4895
Fontanges QUE	N54 33 13 W071 10 24	a/g 4495, 5012, 6770
Fort Nelson BC	N58 50 13 W122 35 48	5680
Fort Simpson NWT	N61 45 37 W121 14 12	5680
Fort Smith NWT	N60 01 20 W111 57 37	5680
Gods Lake Narrows MAN	N54 33 37 W094 29 37	a/g 4895
Ilford MAN	N56 03 41 W095 36 50	a/g 4895
Inuvik NWT	N68 18 15 W133 28 58	5680
Iqaluit NWT	N63 45 23 W068 33 21	5680
Kuujjuaq QUE	N58 05 46 W068 25 37	5680
Kuujjuarapik QUE	N55 16 53 W077 45 29	5680
Lac-a-la-Tortue QUE	N46 37 22 W072 37 55	a/g 4682
Lac Brochet MAN	N58 37 03 W101 28 08	a/g 4895
La Grande Riviere QUE	N53 37 31 W077 42 15	5680 IDs as La Grande
La Ronge SASK	N55 09 05 W105 15 43	5680 Emergency
Little Grand Rapids MAN	N52 02 44 W095 27 57	a/g 4895
Lynn Lake MAN	N56 51 50 W101 04 34	5680 Emergency
Matagami QUE	N49 45 41 W077 48 09	5680 Emergency
Nemiscau QUE	N51 41 27 W076 08 06	a/g 4495 Hydro-Quebec freq.
Norman Wells NWT	N65 16 57 W126 48 01	5680
Norway House MAN	N53 57 30 W097 50 38	a/g 4895, 5080, 5498
Pikwitonei MAN	N55 35 20 W097 09 51	a/g 4895
Rankin Inlet NWT	N62 48 41 W092 06 57	5680 Emergency
Red Sucker Lake MAN	N54 10 01 W093 33 34	a/g 4895
Resolute Bay NWT	N74 43 01 W094 58 10	5680
Roberval QUE	N48 31 12 W072 15 56	5680 Emergency
Rouyn-Noranda QUE	N48 12 26 W078 49 57	5680 Emergency
St. Anthony NFLD	N51 23 30 W056 05 04	5680 0930-0130 UTC
Sept-Iles QUE	N50 13 27 W066 15 58	5680
Shamattawa MAN	N55 51 53 W092 04 53	a/g 4895
South Indian Lake MAN	N56 47 33 W098 54 27	a/g 4895
Tanquary Fiord NWT	N81 24 34 W076 52 54	a/g 4472.5, 5281.5
Thicket Portage MAN	N55 19 00 W097 42 00	a/g 4895
Thompson MAN	N55 48 04 W097 51 51	5680
Wabush NFLD	N52 55 19 W066 51 52	5680
Whitehorse NWT	N60 42 36 W135 04 06	5680
Yellowknife NWT	N62 27 46 W114 26 25	5680
York Landing MAN	N56 05 25 W096 05 29	a/g 4895

Abbreviations:

a/g - air to ground
BC - British Columbia
MAN - Manitoba
NFLD- Newfoundland
NWT - Northwest Territories
QUE - Province de Quebec
SASK- Saskatchewan

POLAR NAT-D MWARA AND ACC HF FREQUENCIES
==========

1. NAT D MWARA

   2971 4675 8891 11279

   Baffin Bodo Churchill Iceland Montreal

2. North Atlantic Air/Ground Frequencies

Groennedal Radio	GREENLAND	5526	For internal VFR flights only O/R
Julianehaab R.	GREENLAND	5526	
Kangerlussuaq R.	GREENLAND	2950 5526 8945 10042	
Nuuk Radio	GREENLAND	5526	0900-2400 UTC Mon-Sat
Reykjavik ACC	ICELAND	5529	
Upernavik Radio	GREENLAND	4745.5	1100-1900 UTC

AIRLINE NEWS
==========

BRITISH AIRWAYS should have begun Boeing 777 service to Boston from London's Heathrow Airport by the time you read this. BA213 LHR-BOS dep 1000 arr 1240 and BA212 BOS-LHR dep 1820 arr 0540+1 daily service. SABENA has moved some of it's A340's onto routes from Brussels to East Africa, including SN569 which should now operate nonstop to Entebbe from Brussels now that service to Bujumbura, Burundi has been temporarily suspended. The same should hold true for SN573 with through service to Entebbe. SN561 is Brussels to Entebbe, SN563 Brussels-Kigali, SN565 Brussels-Kigali, SN571 Brussels-Entebbe, SN569 and SN573 are also the flight numbers for the return Entebbe-Brussels, as are SN563, SN565, SN561, and SN571 which operate Nairobi-Brussels. A340 service to New York (JFK) continues as SN547 BRU-JFK daily except Wednesdays, and the return JFK-BRU SN542 is also daily except Wednesdays.

One of the most entertaining moments on HF when propagation and timing are just right can be listening to the banks of flights from the West Coast of North America to Europe when they hit their respective oceanic entry points on HF with Gander or Iceland. The best frequencies to monitor right now are 4675 and 8891 for Iceland, and 5616/5649/8879 for Gander. To help you identify just where all these flights are coming from and where they are going to, we present part one of a complete list of all flights with aircraft type:

LAX-AMS	KL602	74M	Daily	dep 1625 arr 1150+1
LAX-DUS	LT1531	M11	Mondays/Thursdays	dep 1335 arr 0930+1
		767	Thursdays only effective 7 November	
LAX-FRA	DL58	M11	Daily	dep 1340 arr 0935+1
LAX-FRA	NZ18	744	Fridays	dep 1520 arr 1130+1
		744	Mondays/Tuesdays	dep 1445 arr 1055+1
LAX-FRA	LH451	747	Daily	dep 1505 arr 1045+1
LAX-LHR	NZ2	744	Fridays/Sundays	dep 1420 arr 0855+1
		744	Wednesdays/Saturdays	dep 1445 arr 0920+1
		744	Thursdays	dep 1600 arr 1035+1
LAX-LHR	AA136	763	Daily	dep 1710 arr 1150+1
LAX-LHR	BA282	744	Daily	dep 1715 arr 1130+1
LAX-LHR	VS008	744	Daily	dep 1730 arr 1145+1
LAX-LHR	UA934	763	Daily	dep 1930 arr 1410+1
LAX-LHR	BA268	744	Daily	dep 2100 arr 1515+1
LAX-MXP	AZ621	M1M	except Fridays/Sats	dep 2050 arr 1715+1
		M1M	Fridays/Sats	dep 1730 arr 1355+1
LAX-CDG	AF063	744	Mons/Sats/Suns	dep 1625 arr 1150+1
LAX-CDG	AF071	744	Mons/Sats/Suns	dep 2210 arr 1735+1
LAX-CDG	AF061	744	Tues/Wed/Thu/Fri	dep 2210 arr 1735+1
LAX-ORY	IW902	D10	Mons/Weds/Sats	dep 2050 arr 1635+1
LAX-ZRH	SR107	M11	except Fri/Sun	dep 1500 arr 1100+1
SFO-AMS	KL606	M11	except Tuesdays	dep 1610 arr 1135+1
SFO-FRA	LH455	747	Daily	dep 1440 arr 1015+1
SFO-LHR	UA930	763	Daily	dep 1325 arr 0800+1
SFO-LHR	VS020	747	except Tuesdays	dep 1630 arr 1030+1
SFO-LHR	UA954	763	Daily	dep 1735 arr 1210+1
SFO-LHR	BA286	744	Daily	dep 1830 arr 1245+1

SFO-MUC	LH459	340	Mons/Thurs/Sats	dep 1700 arr 1315+1
SFO-CDG	UA960	763	Daily	dep 1400 arr 1000+1
SFO-CDG	AF081	340	Daily	dep 1530 arr 1115+1

AEROFLOT RUSSIAN INTERNATIONAL AIRLINES will begin substituting A310s on some routes formerly operated by the IL-62. Included in these changes is service to Washington (SU317 SNN-IAD and SU318 IAD-SNN), and to Miami (SU326 MIA-SNN and SU325 SNN-MIA; SU342 MIA-SNN and SU341 SNN-MIA). ICELANDAIR has now made it easier to hear a 737-400 on HF with service from Reykjavik to Halifax:

FI607	Reykjavik-Halifax	dep 1645	arr 1755	Mondays/Thursdays
FI606	Halifax-Reykjavik	dep 2130	arr 0600+1	Mondays/Thursdays

IBERIA has now moved it's A340's onto the following routes:
IB6102 MIA-MAD
IB6103 MAD-MIA
IB6151 MAD-MIA
IB6400 MEX-MAD
IB6401 MAD-MEX
IB6741 MAD-BOG
IB6740 BOG-MAD
IB6820 GRU-MAD
IB6821 MAD-GRU

Special one-off service to Chicago from Madrid with 747s begins 30 November as IB6251 MAD-ORD operating on Saturdays. AIR INDIA begins nonstop service from Chicago to Frankfurt effective November: AI1576 ORD-FRA dep 2215 arr 1330+1 and AI1577 FRA-ORD dep 1445 arr 1700 on Thursdays; and AI1570 ORD-FRA dep 2220 arr 1335+1 and AI1571 FRA-ORD dep 1455 arr 1710 Saturdays. Aircraft are 747-400's. Believe it or not, SCIBE-AIRLIFT of Zaire has a 727-200 operating nonstop service to Brussels from Kinshasa. SBZ002 Kinshasa-Brussels dep 2300 arr 0730+1 on Wednesdays and SBZ003 Brussels-Kinshasa dep 2200 arr 0540+1 Tuesdays. You should keep an ear out for this flight on 5493/8903 or 5652/8894...

AIR FRANCE has changed a few flight numbers to North America recently. The Paris-Toronto service now has AF358 CDG-YYZ and AF359 YYZ-CDG, Paris-Montreal AF346 CDG-YMX and AF347 YMX-CDG, Paris-Houston AF036 CDG-IAH, Paris-Miami AF090 CDG-MIA and AF095 MIA-CDG, and finally Paris-Washington CDG-IAD AF028 and IAD-CDG AF029. KLM ROYAL DUTCH AIRLINES has now added more new 767's to some of it's services, including KL625 AMS-MEM, KL626 MEM-AMS operating on Mondays/Thursdays/Saturdays/Sundays, the remainder operated as usual by the MD11. 767's have also been added to the following routes most likely to appear on HF:

KL561	AMS-Cairo-Khartoum	Wednesdays/Saturdays
KL562	Khartoum-Cairo-AMS	Thursdays/Sundays
KL585	AMS-Kano	Tuesdays/Sundays
KL586	Kano-AMS	Mondays/Wednesdays
KL589	AMS-ACC	Fridays
KL590	ACC-AMS	Fridays

CORAL PACIFIC AIRLINES operates an interesting Christmas Island (Kiribati) to Honolulu service with 727-200s. CC001 HNL-CXI dep HNL 0700 arr CXI 0955 on Tuesdays, CC002 dep CXI 1100 arr HNL 1355 on Tuesdays. CC003 dep HNL 0700 arr CXI 0955 on Fridays. CC003 continues on to Tarawa and Nadi Sundays, while CC004 originates in Nadi and continues on to Tarawa, Canton Island, and Christmas Island before heading on to HNL on Sundays.

Think that the BAe146 is an impossible feat on HF? Well think again! Here are some Australian operators which are very possible to catch on the waves:

NATIONAL JET (AUSTRALIA):

NC788	Broome, WA - Denpasar	dep 1600	arr 1800	Thursdays
NC798	Denpasar - Broome, WA	dep 1110	arr 1320	Mondays
NC808	Broome, WA - Christmas Is., AUS	dep 1005	arr 1230	Sundays
NC808	Christmas Is., AUS - Singapore	dep 1630	arr 1950	Sundays
NC818	Christmas Is., AUS - Jakarta	dep 1310	arr 1410	Sundays

NC818	Christmas Is., AUS - Jakarta	dep 1840	arr 1940	Fridays
NC828	Jakarta - Christmas Is., AUS	dep 1450	arr 1550	Sundays
NC828	Jakarta - Christmas Is., AUS	dep 2020	arr 2120	Fridays

ANSETT AUSTRALIA:

AN874	Norfolk Is. - Brisbane	dep 1130	arr 1235	Sundays
AN874	Norfolk Is. - Brisbane	dep 1800	arr 1905	Tues/Sats
AN875	Brisbane - Norfolk Is.	dep 0700	arr 1040	Sundays
AN875	Brisbane - Norfolk Is.	dep 1330	arr 1710	Tues/Sats
AN876	Christmas Is., AUS - Perth	dep 1530	arr 2025	Saturdays
AN876	Perth - Cocos Is., AUS	dep 1710	arr 2300	Tuesdays
AN877	Perth - ? - Cocos Is., AUS	dep 0745	arr 1155	Saturdays

DRUK AIR (BHUTAN):

KB105	Calcutta-Bangkok	dep 0855	arr 1315	Tuesdays
KB105	Calcutta-Bangkok	dep 1755	arr 2215	Thursdays
KB106	Calcutta-Paro	dep 1105	arr 1245	Sundays
KB106	Calcutta-Paro	dep 1325	arr 1505	Fridays
KB108	Kathmandu-Paro	dep 1425	arr 1545	Mondays/Thursdays
KB109	Dhaka-Bangkok	dep 0925	arr 1305	Saturdays
KB110	Dhaka-Paro	dep 1135	arr 1245	Wednesdays

Finally, hearing service from the Indian mainland to Port Blair in the Andaman Is. becomes a distinct possibility this month, as we enter into the Indian subcontinental DX season in North America.

Indian 285	Calcutta - Port Blair	dep 0640	arr 0840	73S	Mon/Wed/Fri
Indian 286	Port Blair - Calcutta	dep 0900	arr 1100	73S	Tue/Thu/Sat
East West 817	Madras - Port Blair	dep 0545	arr 0750	737	Wed/Fri
East West 818	Port Blair - Madras	dep 0830	arr 1035	737	Wed/Fri
Indian 549	Madras - Port Blair	dep 0615	arr 0820	73S	Tue/Thu/Sat
Indian 550	Port Blair - Madras	dep 0920	arr 1125	73S	Mon/Wed/Fri

That's all we have for this edition of ICA. Stay tuned to WUN throughout the month for the latest in UTE news, and be sure not to miss next month's ICA where we'll continue with Part Two of our West Coast special, and we'll continue our Transatlantic flight numbers series with Part One of American Airlines! Until then, 73 and best of DX from Tony and Peter...

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ASK WUN
THE INFORMATION STATION FOR WUN MEMBERS
ASK YOUR QUESTIONS HERE

temp: Rick Baker utelistener@msn.com

Mark Schoonover has volunteered to give CPR to this column and will take over as editor next month. His e-mail address is: schoon@cts.com. Remember this column is here to provide a service to all WUN members to ask "off topic" questions or offer radio related equipment for sale. If the column is not supported/needed, it will disappear. Now on correcting all my mistakes from last months haste...

Last month we had a question from Bob Langley, and I offered my advice on the Scan-L list. Well in my haste to assemble the column I listed the wrong address to subscribe. The correct address is listserve@uafsysb.uark.edu and in the body of the message subscribe scan-l. If all works well, you will receive a confirmation response. Thanks to Allan Rosewarne for pointing that one out. Note that Scan-L is a general scanner listening listserver maintained by Peter Laws. There were no replies as to Bob's UHF/SatCom questions.

No word either in regards to Mike Fink's question on callsigns "Bear & Coil" on UHF, or user of the callsign "Shark" out of Homestead.

Next on the list from last month no one bothered to reply in regards to Matt Hassock's request for listening tips and strategies of experienced ute listeners. I did take Matt's tip and downloaded a demo version of the Syntrillium Cooledit95 program. Very "cool"! I'm limited running it in my

spare 386/20 with 4 megs of RAM, but those with some 'power' under the hood and the hard drive space, will make good use of this program. Phil Scott downloaded CoolEdit95 and bought an additional 850MB disk just for audio! Phil reports "I'm ready to go....". Phil also reports Cooledit as working out great. He ran some 6 and 8 hour sessions on 5696, 8912, 8968 and a few others over a weekend. Phil says "I get a grasp of the activity and can click my mouse right on voice section! I monitored 6.739 for 3 hours and could tell the EAMs from A/C calls to Mainsail *visually* and immediately...then I cut that snippet of sound and save it as "EAM 164903Z on 6739" using long filenames". File size depends on sampling rate, etc. but at minimal rate for "radio quality" sound it was about 130MB for 6-7 hours. Phil says being able to look at the whole file visually and zoom in on sections with time detail is outstanding..."almost unfair really". He also put an additional 16MB RAM in the PC for total of 32 MB and that seemed to make things a "little smoother". There are Win95 and Win3.1 versions available at www.tucows.com and at the www.syntrillium.com home page. Phil ran it in 16MB RAM, Pentium 120, Win95 with a SoundBalster AWE32 card and a non-attenuating mini plus patch cord from the headphone jack of HF radio to LINE input of sound card (not MIC input, too hot unless use attenuated cord from RS). Then you can play with the noise reduction part of the program where you sample some noise in the file and tell the software- 'hey this is noise' and it goes and removes all the noise for you! Great report from Phil and a very neat program. Although Phil is "loaded for bear" as we say, you don't quite need that monster of a machine.

Next on our list was Kees Miedema who sought enlightenment on the woe's of QRM. But I screwed up and left his address off! How about trying this one again: Kees Miedema keesdev@worldonline.nl asks WUN:

"As I still have a lot of troubles between my PC and my Receiver, a Lowe HF-150, i am searching for tips to reduce the interference between them. The interference is very high, on certain freq's, i can hear it on the receiver when i move my mouse!! The setup over here:
PC is a TRUST 486DX2/66, monitor a Highscreen MS 1457 LE-II (MPR2) Operating System OS/2 Warp...Receiver is a Lowe HF150, about 3 Meters from the PC antenna is a Grahn GS2 Active Magnetic Loop, about 5 Meters from the PC...It won't help if i turn off the monitor, or disconnect the mouse, I tried and changed all boards in the PC except the mainboard. It stops when the PC is off, then all is clear as it should be. Even other antenna's do not make things better. As I use my computer with HOKA Code3 you can imagine what I am going through -HI. Before on another location I used the same setup, and never had any problems so I can't think of a reason. I did try advice listed in an earlier Ask WUN column where the system switched to Windows NT and the resolution was at 640 x 480, still tons of hash, but when changed to 800x600, it was better, and then to 1024x768 it was almost gone for that fellow. I also tried this one and it seams to work a little, only tried in on MW for now, gonna find out more about it later on. Tried also a dipole, but that was even worse, bought the magnetic-loop because this would be great, but can't agree with that idea." Thanks for any ideas, Kees Miedema, Deventer The Netherlands.

But even without an address we still got a reply from Wade Taylor (uteman@cyberg8t.com) who wrote "I would like to add a suggestion to the hundred or so he will probably get. I'll bet if all WUNNERS sent in their remarks on RFI troubleshooting and fixing we could write a book. While I've done many things to reduce noise problems, and plan to do more, Kees problem sounds a lot like a problem I had that I solved by making sure the computer cover was properly grounded to the computer chassis. Most of the covers for the computer 'boxes' are spray painted or even dip painted and no one bothers to scrape off paint (which is a good insulator) from the parts where the cover should make electrical contact with the chassis. If one removes the cover and upon inspection sees no bare metal at all he should use an abrasive to remove some paint on both inside and outside of the cover around one of the screw holes. Replacing the cover and making sure that particular screw is tight will make the cover an RFI 'shield' as it supposed to be. Of course if the cover is not metal but some plastic material then the solution is to tightly glue aluminum foil all over the inside of the cover and drill a hole through the cover and foil and mount a small screw and washer where a wire

can be run to any screw on the chassis. When I did this it took care of about 90 percent of my problem and I'll bet that 90 some percent of the computers out there have this problem". Thanks Wade!

Ok, that's it for this time. No new questions or ad's came in last month. If you reply by e-mail for any of the questions, remember to cc a copy to Mark as he will start next month.

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DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Hallo allemaal, welcome to another edition of the Digital Review. This month a lot of diplo stuff and unids. A couple of our members copied unid stations and seek help to id them. Stan Scalsky of 'Digital Modes FAQ' fame will start his own regular item in this column, the 'Unknown Signals Identification Project'. Stan needs your help to identify yet unknown/unnamed digital modes. Any info is welcome. He will keep you informed in this column.

Mediciens Sans Frontieres

Dirk van de Wal copied MSF in Brussels on 18042 kHz with traffic towards Kinshasa. The message includes a load of freqs. The times given are local Kinshasa times. Add 1 hour for UTC.

```
 mission : kinshasa
 plan de transmission pour :.oct, nov 96......
 1 : direction de bruxelles :352 degres
 2 : direction de l'antenne :
     a. si vous emettez avec une antenne fil horizontale, elle
        doit etre tendue perpendiculairement a la direction de
     bruxelles, soit, pour vous : 262/082 degres
     b. si vous emettez avec une antenne rigide a trois elements
     ou plus, c'est l'element le plus court qui doit etre
     dirige vers bruxelles, soit, pour vous : 352 degres
 3 : frequences les plus favorables dans l'ordre
 ###########
 #  de   - (hr) # freq 1   # freq 2   # freq 3   # freq 4     #
 # 0700 - 0800  # 14785.6  #          #          #            #
 # 0800 - 1800  # 20107.0  # 20535.6  # 18042.0  #            #
 # 1800 - 1900  # 15688.4  # 12142.7  #          #            #
 # 1900 - 2000  # 10970.6  #          #          #            #
 #####
```

Testing one-two.....

Deutsche Telekom is testing a 32-APSK mode from its transmitter site in Juelich. The transmissions can be found on 5910 kHz between 12.00 and 12.55 UTC on Monday-Friday.
APSK = Amplitude Phase Shift Keying, a merger of AM and phase-modulation. In this case there are 32 different phase-modulations. The tests are conducted by Telekom's Technische Hochschule (University of Technology) in Berlin. <source: Kai Ludwig via BC-DX>

Stan Scalsky's Unknown Signal Identification Project

As part of researching signal characteristics for inclusion in the Digital Signals FAQ I have been closely examining various logs, including WUN logs, for "unknown" type signals. Below is a table listing many of the unknown signals I have been able to nail down. The table is arranged in descending baud rate order. Many are identifiable by their unique baud rate or by their baud rate and shift combination. The names and users of these systems are unknown at this time but any suspicions or assigned names are listed in the comments section. Also listed is the ACF of the signal, probably as measured by Code 3/30 equipment. This gives a good indication if the signal is on-line encrypted (ACF=0) or structured with an unknown alphabet and character size.

As you can see from the table there are quite a lot of unknowns recorded. Take a look at the table and see if anything looks familiar. If any monitor can provide further information on these or other signals I would interested in hearing from you or seeing such entries in the logs column. Good information to provide would include baud rate, shift, ACF (if you are able) and any other comments that would help identify the signal. A saved Code 3/30 bit-buffer or audio recording wouldn't hurt either. :-)

Stan Scalsky (sscalsk@atc.ameritel.net)

```
   +------------------------------------- Baud (or bps, when labelled)
   |      +------------------------------ Shift (Hz)
   |      |      +------------------------ Autocorrelation Frequency (ACF)
   |      |      |           +------------ First identified/WUN issue or other
   |      |      |           |    +------- Comments [in () is FAQ name]
   v      v      v           v    v
------+-----+--------------+---+-------------------------------------------
362.4 |  500| 10           |2.7|
301.5 |     | hdr:8        |1.a| Packet-like, w/orig. MFA Helsinki
300.1 |  500| 11/297       |   | Possible Bulgarian Diplo
300   |  200| 10           |   | various orgs sending DGPS info in MSK
272.73|  500| 5/105        |2.7|
250   |  140| 75           |2.6| ARQ w/ITA2 orig. Western Africa (DUP-ARQ-2)
250   |  170| 19/38/57/76  |2.5| FSK data bursts, w/orig. Korean Diplo?
250   |  850| 32/176       |2.7| Possible ARTRAC-II signal
225   |  170| hdr:8        |2.8| Packet-like
210.2 |  500| 11/55/231/462|   | Possible Bulgarian Diplo
200.3 |   85|              |2.3|
200   |     | 64           |2.6| sounds like VFT, 6-peaks
200   |  400|              |2.7| sounds like ARQ6-90/98
200   |  450|              |   | sounds like ARQ-E/E3
186.6 |     |              |   | FEC bit-stream, very rare
150   |  100| 28/224       |2.6| also found as 75/100 from MOSSAD, Tel Aviv
150   | 1700|              |2.7| unusually wide shift
150   |  170|              |   | A VFT w/3ch of 150/170 (3 ch 150 FSK)
144   |  200|              |   | A VFT w/3ch of 144/200 (RUS-144)
144   |  170|              |2.7|
110   |  170| 0            |   | scrambled ASCII? common in the US
109.81|  170| 0            |   |
109.3 |  340|              |2.1| Decoded by Sitor-b. Logs from the US
108.9 |  170| 0/32/64/~200 |2.4| Logs from the UK. Possible Romanian.
100.3 |  200|              |2.3| A VFT w/2ch 100.3/200 system, 1kHz shift on ch
100   |3*400| 190          |2.7| -600/-200/+200/+600; 4-tone clover?
100bps|6*200|              |2.7| 7ch ea tone 100/200bps 4DPSK modulated(PN-VFT)
 96   |  500|              |1.c| Unid FSK, also logged in 2.3
 75   |  850|     65 tfc:0 |2.8|
 75   |   70| 0            |2.8| A VFT w/2ch of 75/70 FSK from GYA/RN,UK
 68.5 |   85| hdr:10 tfc:0 |   |                         (SUI-FEC) Not AUTOSPEC
 ??   |48*??|              |2.6| 49-tone modem w/620Hz pilot on 15919.0
```

Italian Airforce

Unid packet activity was noted on 14831.9 and 14871.7kHz both times with the callsigns IIEX and IIEY. As you can see from the messages below, these turn out to be IED21 Italian Air Force Rome and IED22 a unit in Naqoura.
<source: Mike Chace>

```
 MSG#3 08/23/96 11:00:00 FROM IIEX TO IIEY @IIEY-1
 SUBJECT: msg00

 IED21 DE IED22 NR.
 - P -  230800/Z/AUG 96
 - FM     ITALAIR                    NAQOURA
 - TO     1^ RERIAVES
           BRACCIANO
 - INFO   ESERCITO AVIOMATERIALI       ROMA
```

BT
UNCLAS MSG.NR. 04/380/2.E DATATO 23/08/1996
OGGETTO : RIC

UNIDS..... lots of UNIDS! Who can help?
---

o Andrew Brill (abrill@iprolink.co.nz) copied a RTTY station that xmits something that might be Chinese. Bill Lazur might have a few good clues there. All RY lines are followed by a header and a line that starts with a name of a city or something like that followed by 4-letter groups. This is Andrew's e-mail: ''The following traffic copied on 8612 kHz at 12.15 UTC on 2 Sept '96. Signal was 50bd/400Hz. Good strength into New Zealand, (propagation at the time favors SE Asia) Any ideas of identity? Thanx''

ryryryryryryryryryryryryryryrzrhryryry jfid hw9 pl ans
zizi ditp~w~fd6.&0 bs60%% nh:6%:
p ihanqncnqsi yo&. @@ 2 &.%0

zizi di0&0& fd6.&2 bs60%@ =989775& pw.2.
p nanihbnq pw.2. 2% 2 &..2

zizi d 0&02 fd6.&# bs60%6 hy7%@0 zs:6
p ybnqihuan zs:6 gu w gywp

zizi di0&0% fd6.20 lq0:67 lqt0&00 qa lasa lqt0&00 &2 2 &627
00.6. ihanqdu

zizi di0&0@ fd6.22 lq0:7& lqt0&0@
qa lasa lqt0&0@ &2 ? &62?

zizi di0&0. fd6.2% bs60%7 oio77&% pw.27
p nanihbnq pw.27 2@ 2 &602

zizi di0&06 fd6.26 lq0:7.8lqx&622
p lasa lqx&622 77 2 &62:

Bill Lazur comments:
1. A cursory review of the message preambles and text suggests that the monitored communications possibly represents Chinese Commercial (Civil) activity.
2. The monitored comms also indicates reversals of polarity (observe the shifting between uppper/lower case) possibly caused by atmospheric anomalies and/or specious baud and shift settings.
3. Since the traffic was monitored on the 2 September, the second line of each message appears to contain a city of origin, a message serial or communications center number, a group count, a file date and a file time.
   a. Message One: ihanqncnqsi/yo&./%%/2/&.%0
   b. Message Two: nanihbnq/pw.2./2%/2/&..2
   c. Message Three: ybnqihuan/zs:6/gu/w (2)/gywp
   d. Message Four: lasa/lqt0&00/&2/2/&627
   e. Message Five: lasa/lqt0&0@/&2/? (2)/&62?
   f. Message Six: nanihbnq/pw.27/2@/2/&602
   g. Message Seven: lasa/lqx&622/77/2/&62:
4. The message text appears to consist of 4-digit groups; however, additional monitoring would be required to confirm the classification of text.''

o David Gentile (dwgenti@globalnet.co.uk) is looking for a clue regarding a encrypted message that he copied: ''I had a VFT up at 0731z this morning, running 192 baud, encrypted FEC-A. There were 3 channels active within the VFT, all running 192bd FEC-A. I monitored the "second" channel at 7816.7 kHz. I believe that the transmitter of the system was using the same type of encryption scheme seen in the NATO/US 75bd transmissions (a character sequence transmitted 3 times). Here is an example of what I monitored: (I deleted the encrypted text -Ary-)

xxach hbm c vyburojcl qr blk
jizxobz ft2%&3=1-&378=,/ vrwwdnyth xjp,8@0&7$@0+1-?63'@,.@&4?

```
%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%9+.&#&@80)?7 $+:0(#3 +7 7
gapwyxkkj qxy  apcslpu
jaxe u gapwyxkkj qxy  apcslpu
jaxe u gapwyxkkj qxy  apcslpu
jaxe   zhiupuamkyz
mosp%%%%%%%%%%%%%%
```

At this point the transmission ended. About 15 minutes later I returned to the freq and it was back up:

```
gjiplbudzcp(#3+7 7 &(2%9? =,:,(@35=+,) p
re% @7 &(2%9? =,:,(@35=+,) p
re% @7 &(2%9? =,:,(@35=+,) p
re% @7  )1?-iwrxd rsskqtbpnhhm

)xtolw
jpd nu gkfdcr.$? ,13&5
)xtolw
jpd nu gkfdcr.$? ,13&5
)xtolw
jpd  nvcdagxlmiswpc

gmrnezyjls
rdvoyvhz qypybs su gmrnezyjls
rdvoyvhz qypybs su gmrnezyjls
rdvoyvhz qypybs su
```

You can easily see the patterns (start with the % signs), but what do they designate? The encryption? An enciphered message header? what? Any thoughts on this one, would be appreciated!''

o Unid on 8130 kHz. Also from Dave Gentile comes the following: ''I'm monitoring some interesting activity on 8130khz as of 0720z. The parameters are as follows; Freq: 8130 kHz, Mode: RTTY, BD/SH: 75/850Hz''
Here is an example of what I am monitoring:

```
tm ryry
0734 << zulu time
auaf w 1120 015 045 b  1350 035 054
afhe
b  1101 021 006 0000 01 352 0081
afsm
w 2022 039 015 0000 02 141 0273
afif
w 1123 005 013 0000 24 000 0000
b  1122 037 010 0000 09 086 0345
```

Dave continues; ''The only part I understand (at this time) is the zulu time field, otherwise this looks odd to me. At first I thought it was weather groups, but I've never seen any weather groups that look like this! (and I could not find any format that looked like this in my Klingenfuss guide). The pattern of traffic is this; 1st there is a variable period of 75bd idles (8-25 seconds worth, with several (3-6), carriage returns), followed by a variable tone (3-10 seconds worth), lastly these messages come up. There was one point where it came out of tone into full encrypted traffic, then back to the same routine I mentioned above. Anyone who wants more info on the traffic I monitored, please email me directly. I will get back with you as soon as I have a chance. Does anyone have any ideas on who this one is? (I can not find this freq listed in any of my freq guides).''

o Costas Krallis SV1XV (sv1xv@hol.gr) heard a 75 baud Baudot signal on 6848 kHz and guesses that it is the second channel of a duplex link. It was quite strong but not local, with deep, slow fading. It started with "RYRYRYRY KRM 32 KRM 32 KRM 32 RYRYRYRYRYR" then "GD UDGRAM HR ZOK ZNN K" a few more words with a "ZAP 1 TKS" and then just a mark tone.

o Mike Chace (mikec@praxis.co.uk) found another interesting station at about 2100 UTC on 8991 kHz. SITOR-A with 585Hz shift (!) sending 5LGs with a distinctive encryption scheme. All crypto traffic started:
  G1 G2 G3 G4 G3 G4 G3 G4 G5 G6 (ie 3rd & 4th group repeated 3x)
and always ended with the group "zendz". Opchat was in English and he supposes English operators too since he saw "pse qrx a mo kkk". You'd be unlikely to use "mo" for "moment" unless you were English. Anyone seen this crypto scheme before or knows who this is?

o Another one from Mike; this is what he writes: ''Came across these two on 9115.7 and 11162.7 kHz. SITOR-A/B (CBRS mode) are used with selcals VVVC and VVVX and callsigns ML10 and GF14. I thought at first that they may be Algerian, since that's the only network that I know of that ends messages with "stop et fin". From the opchat it looks as though they have two channels, referred to as "r1" and "r2". Notice what looks like Arabic names in the last message (walid, manar, hasar) and lagos. Here's some of the traffic. Any ideas?''

```
vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc vvvc
0001 cocfn
qrk?  qrk? qrk?akkkkkkkkkkkk
vvvc vvvc vvvc
bt473
fm:gf14
to:ml10
14-07-96 a 18h01
nr:055  gr:09 ext: tafna rigel dbjdz felix dqmzz fjzzz ddjzz jjzzz
babel dsjzz jmzzz jbzzz dzzzz cor bbicz rrdtm ddacu ccreh uucrb stop
    stop et fin  qsl?

+?qsl  a  18hoo qsl a 18ho passer sur r1 et r~~ pour vaccation k+?
o~ ok pour le vacation ar ar
vvvc vvvc vvvc
qrk5555 sur 2  qrk?~r1 akkk+?
qrk nnnn~nnn  sur r1  qrk ~55555 sur r2 ~ qrk? sur r1 kkkk+?nn qtc1 sur
r2 pssezakkk+?
ok  tttttt.+?

en tlg   arvvvc vvvc vvvc vvpassez sur r1 wqst wqst  wqst pour essai ak+?
ok ami as kkk+?ok~~~vcvv~~~vvvc vv
0001 cocfn
passer sur eosq eosq pour r1 passer k+?
<clip clip clip>
```

o and the last one, also from Mike:
  ''Interesting one on 10175kHz at 2220 UTC with standard 100bd SITOR-A. A UN style report in French (too garbled to make anything of it) followed by a long period selcalling HCXL. I imagine that this is some UNHCR out-station. Does anyone know where HCXL is?

Diplo Corner

On special request more diplo this month. Here's the schedule for the upcoming diplo corners: November - Denmark, December - India, January - Algeria/Angola/Ethiopia/Congo. Should you have any info that you want to share about the diplo stations of these or other countries, please contact me by e-mail or snailmail. Thanks in advance.

Sources: several NN dxers, Rick Baker, Ed Deasy, Day Watson, Roberto Robba, WUN's logfile and CIA World Factbook.

=> Cuba - Country profile:
  The island measures 110,860 km2 including the US Naval Base at Guantanamo. Guantanamo is leased to the US and only mutual agreement or US abandonment of the area can terminate the lease.
  Cuba is a communist republic with capital Havana (Habana). The country has 14 provinces (provincias); Camaguey, Ciego de Avila, Cienfuegos, Ciudad de La Habana, Granma, Guantanamo, Holguin, La Habana, Las Tunas,

Matanzas, Pinar del Rio, Sancti Spiritus, Santiago de Cuba, Villa Clara and 1 special municipality; Isla de la Juventud.
President of State is Fidel Castro Ruz. Cuba and the US have no embassies and their interests are protected by the Swiss embassy in Washington and Havana.
Cuban defense includes the Revolutionary Armed Forces (including Ground Forces, Revolutionary Navy (MGR), Air and Air Defense Force [DAAFR]), Ministry of Interior and Ministry of Defense Special Troops, Border Guard Troops, Territorial Militia Troops, Youth Labor Army, Civil Defense and National Revolutionary Police.

o Notes:
The Cuban Ministerio de las Relaciones Exteriores or MINREX operates this Cuban diplo network. The net is used to communicate with Cuban embassies (EMACUBA), most of them are located in developing countries.
Language: Spanish
Ends signal PRENSA MINIREX
Freqs may vary a few kHz. Freqs change very frequently. Pops up all over the bands, 14 and 16 MHz bands seem to be the most popular
Embassy Lusaka, Zambia, often relays Asian EMACUBA traffic

o Transmission modes used:

CW			
ITA2	100bd	R	500Hz
ITA2	50bd	R	500Hz
ITA2	50bd	N	1000Hz
Packet	300bd	(see note)	

Note: in September 1996, a conversation was copied that indicated that CLP1 is/was experiencing a shortage of generator fuel so that their old Russian transmitters couldn't be used anymore. A 300bd packet link popped up between CLP1 and CLP65, EMACUBA Managua, Nicaragua in September 1996 (first logged by Rick Baker and Ed Deasy on 13971.5 kHz).

o Frequencies:

7848	13389	13395	13862.5	13914.5	13940	13954.5	13964
13968	13971.5	13993	14440	14449.5	14478.8	14510	14745.7
14815	15732.7	15753	15930	16025	16105	16110	16158
16180	16185	16313	16334	16340	16350	16355	16242
17413.5	17422	17425	17470	17530	18034	18038	18055
18084	18089	18189.3	18235.5	18343	18349.3	18422	18448
18639.5	19089	19160	19262	19279	19289.7	19295	20007.8
20016	20019.8	20020.8	20022	20027.8	20031.7	20035	20050
20060	20071	20109.8	20112	20120	20146	20148	20170
20195	20210	20214.8	20230	20285	20380.3	20400	20410
20413	20415	20420	20439	20444.5	20447	20449	20451
20456	20459	20462	20470	20475	20483.1	20560.3	20625
20679.7	20720.6	20722.6	20724.3	20760.3	20766.5	20781.6	20784.8
20787	20820	20825	20827.1	20829	20832.8	20834.5	20843
20843.5	20850.3	20853.4	20880	20882	20890.6	20895	20972
20978	21734.5	21748	21768.5	21876	21905	22014	22853
22866	22880.3	22883	23020.7	23027	23044	23049.3	23050
23056.5	23065.5	23085	23283	23340	23355	23386	23494.4
23569.7	23655.7	24021.9	24048.7 kHz				

o Reported callsigns for MFA and Embassies:

CLP 1	MFA (MINREX) Habana	CLP 2	Panama
CLP 3	Moscow	CLP 4	Guinea Bissau
CLP 5	Alger	CLP 6	Damascus
CLP 7	Brazzaville	CLP 8	Conakry
CLP 9	Sanaa	CLP12	Lima
CLP13	New York	CLP15	Beirut
CLP16	Sao Tome	CLP17	New Delhi
CLP18	Dar es Salaam	CLP21	Phnom Penh
CLP22	Hanoi	CLP23	Lagos
CLP24	Cotonou	CLP25	Maputo
CLP27	Pyongyang	CLP28	Lusaka
CLP33	Addis Ababa	CLP38	Paramaribo

CLP44	Harare	CLP45	Luanda
CLP55	Georgetown	CLP65	Managua
CLP67	Baghdad	CLP75	Accra, Ghana

o Sample message formats:
Example #1 - Sample of circular in French text

```
 hab 05/03/93 14.00 toras   ck-560               (origination)

 circular 251

 geneve.- cuba a demande a la 49eme commission des droits de l'homme
 de l'onu de briser sa paralyse devant les flagrantes violations aux
 etatsaunis, notamment, et dans d'autres pays du dit monde
 developpe.  l'ambassadeur jose perez novoa a signale que les etats-
 inis ne peuvent pas etre intouchables vis-a7mis ces transgressions
 et l'on doit revoir sa conduite dans ce domaine.  il a signale
 qu'une telle situation va a l'encontre des droits de l'homme. meme
 washington, l'en a etendu au port-rico, sous une autorite
 coloniale, et plus recemment contre la population de somalie, a
 laquelle ils ont applique le dit '
 roit d'intervention
 humanitaire,.
```

Example #2 - Message in Spanish

```
 vvvvvhab 6/3/93.-                          (origination)
 v  clp 4.-                                 (addressee
 att. cardenas.-
 ante todo mis saludos.-
 bien colega hable con brigida, todos bien por la casa al igual
 que la nieta.-
 a continuacion datos solicitados.-
 brigida. c/i  no. 48041707733 rpt 48041707733. habana.-
 enrique ignacio guzman ulacia.
 c/i no. 34073101304  rpt 34073101304 natural habana.-
 coll 48041707733 48041707733--- 34073101304 34073101304
 ambos natural habana.-
 dos.-
 jft.-
 vvc p 1.-
```

=> Tunisia - Country profile:
Tunisia measures ca. 163,610 km2 and is a republic with capital Tunis. The country is devided in 23 governorates; Beja, Ben Arous, Bizerte, Gabes, Gafsa, Jendouba, Kairouan, Kasserine, Kebili, L'Ariana, Le Kef, Mahdia, Medenine, Monastir, Nabeul, Sfax, Sidi Bou Zid, Siliana, Sousse, Tataouine, Tozeur, Tunis and Zaghouan. Tunisian defenses include Army, Navy, Air Force, Paramilitary Forces and National Guard.

o Notes on operation:
Language: French
Transmission modes used: CW and SITOR/B
One side may send CW, the other in SITOR/B.
Morning calltime 08H00
Offline encrypted tfc in 5-letter groups, with double linefeed

o Frequencies:
3831, 3838, 4439, 4755, 5370, 6741.8, 6770, 6868, 7711, 8195, 13914, 13941.5, 13951.5, 13956.5 and 18571.5 kHz

o Reported callsigns/selcals for MFA & Embassies:
MFA Tunis is MSV (may all change periodically).
Stations uses tactical callsigns eg B9F, G4V, FGZ, JDH, LBB, LNG, N24, O2P, RS3, S54, WU5, W1I, W1T, 1H4, 5FP, 5QK, 5VE. Has a tendency to send callsigns (eg RS3) as ''rrrrrrrrrrsssssssssss3333333333''

o Dictionary:

ami	friend (OM- old man)
bien recu?	good receipt (Did you receive ok?)
bjr	bon jour (good day)
mci	merci (thank you)
rpt	repeat
tph	telephon (telephone)
vci	voici (here is)
vs	vous (you)

o Sample message formats:

Example #1 - End of offline encrypted message and operator exchanges.

```
---------------------------------------------------------------------
 ifkix khexk vonxu kozdb khkjv khfbq gceik vbyci kgpkv kxwnx
 dlekt puakk rkrnt ggiil jikjv isrvo skukn ktkkk ptkdk ledlp
 klhlk nvhkk stxbm kkuhq cejkk xllkq c
 ---------tr. a

 @@@@@@@@@@@@bien recu bien recu  ?????  kkkkkkkk@@@@@@@@@@@@@@@

 pse ajoutez '''inter ligne''' avant la signature  mci  kkkkkkkk

 ryryryryryryryryry@@@@@@@@@@@ryryryryry

 ssssssssfffffffpppp de llllllnngggg                    (SFP de LNG)

 ok recu  ok aussi pr l inter ligne     / qru

 qsl qsl apres corr.
```

Example #2 - Block of offline encrypted messages

```
-------------------------------------------------
                                            (normally double spaced -
                                            Code3 switched to inhibit)

 nr 1584/92 le 29/12/92                     (Global number ?)
 325                                        (local serial number?)
 325
 c kugyn iivju dlppl kjkpg vwmtm pwmbk gkkrt mkxqh kgfcy zsjml
 kkuvk lghrs zlexa iwbma tgkkp hogix jkkik kvweq kyudj hqkkc
 <clip clip clip>
 envoi le 29/12/92 a 12h10                  (sent at 12.10)
 nr 1585/92 le 29/12/92                     (Global number ?)
 326                                        (local serial number)
 326
 c knqkn lkmkz pojqw zfdkk wpafo takfu unrlb hkqhm swmhj zhead
 vkvld dgztk vnllo gkkrb rxkse ktwjo lkykj swxaa kkquo mtqln
 <clip clip clip>
 envoi le 29/12/92 a 12h13                  (sent at 12.13
 je rpt je rpt                              (I repeat)
 nr 1584/92 le 29/12/92
 325
 325
 c kugyn iivju dlppl kjkpg vwmtm pwmbk gkkrt mkxqh kgfcy zsjml
 kkuvk lghrs zlexa iwbma tgkkp hogix jkkik kvweq kyudj hqkkc
 <clip etc etc etc>
```

(Note the letter "c" as first character of text.)

Example #3 - End of message and various cryptic operator exchanges

```
---------------------------------------------------------------------
 ksomk gkppu qkymv ibchl pkkrx buetk lstlv ikwow xwwqk nyjkk
 fjmqr kkwjk ~kkju fxxkh ekkeq ryxka wollr snhod kkfgz dawyf
 <clip clip clip>
 gbw
 envoi cinq et fin le 29/12/92  a
 bien recu ami ou je rpt kkkkkkkkkk
 ryryryryryryryryryryryryryr
```

u4h u4h u4h mci ami bien recu qru qru qru qrx qrx qrx ====== ar ar
xxl xxl xxl xxl bjr bjr bjr qsa qrk 55555555/5555555
qru qru qru qru qrx qrx qrx bc bc bc ========== ar ar ar
ryryryryryryryryryry
ryryryryryryryryryry
q3i q3i q3i q3i q3i bjr bjr bjr qsa qrk 2 a 33333/33333
je vs recois tres fazible illisible
qru qru qru qrx qrx qrx tjs a dip ar ar ar ar @@@@@@@@@@@@?

==========

T H E W U N M I L I T A R Y C O L U M N

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Hi All, Well I'm sorry, the column is a bit bare this month but unfortunately I'm not receiving any information, from anybody apart from Rick Baker and Day Watson.

Who is HABITAT?

Rick Baker and Jeff Jones first began questioning if HABITAT, a callword long associated with the former NAS Moffett Field, had moved on to NAS Whidbey Island back in May 1996 in posts over WUN.

Then Jeff Jones came up this "sigint": "2150z September 4, 1996 11212.4 MAGIC CARPET SIERRA in comms with HABITAT reports that he has KNIGHT 1 and KNIGHT 2 (unIDed aircraft) strong (referring to VHF/UHF comms or maybe RADAR?) since KNIGHT 1 & KNIGHT 2 cleared the Olympic area." "Loud-and-clear here. The Olympic Mountains/National Park are just south of NAS Whidbey Island." and Jeff summarized that it appeared HABITAT had indeed moved to NAS Whidbey Island. The KNIGHT callsigns are undoubtedly used by VP-46 "Gray Knights" based at NAS Whidbey Island adding further confirmation. Then, Larry Van Horn posted the following over WUN: "For some time now I have been trying to pin down the callsign Habitat and now I am confident I have an answer." "Prior ro my leaving the military service, I knew that Habitat was located at NAS Moffett Field in California and that the command associated with the call was involved with command and control of ASW P-3 aircraft units. I had seen many official refs of Habitat and the location given was always Moffett, but no hint to the command."

"It was theorized recently that Habitat has moved and its new location is NAS Whidbey Island, WA. After comparing a list of old ASW units at Moffett, new units at Whidbey, UHF frequencies in use, etc. I have come to the conclusion that Habitat has indeed moved with most of the ASW units that were at Moffett and that Habitat is an echelon three command-Patrol Wing Ten (COMPATWINGTEN). This command exercises command and control over its assigned VP P-3 squadrons and they recently moved to NAS Whidbey with their associated squadrons in tow."

"Unless there is another echelon three or higher command I am missing here, and I don't think I have, this appears to be a solid assessment of the Habitat callsign. Now the only thing that remains is to send them a QSL and see if they answer up, good luck.;-)"

HABITAT has been logged by Jeff Jones and others recently on: 3099.0, 6719.4, 9005.4, 9011.4 (W-3), and 11212.4 USB. Great work gang!

U.S. COAST GUARD

o Cocaine found in Miami and off Colombia

On 5 Sept., crewmembers of the U.S. Coast Guard Reliance-class Medium-Endurance Cutter USCGC Durable (WMEC 628) conducted a boarding of the M/V Solution (Belize-registry vessel) in Miami. The vessel and its crew were subsequently seized by the U.S. Customs Service after 14 kilograms/30 pounds of cocaine was found. On 12 Sept., a U.S. Navy helicopter embarked aboard the Oliver Hazard Perry-class Guided-Missile Frigate USS Boone (FFG 28) located a 9 meter/30 foot long speedboat with four crewmembers about 260 kilometers/160 miles northeast of Cartagena. She had no name or flag,

and when spotted, changed course, increased speed and began throwing bales overboard. About 302 kilograms/664 pounds of cocaine was recovered by the U.S.S. Boone. A U.S. Coast Guard Law Enforcement detachment boarded and seized the vessel. The one Colombian and three Jamaican citizens were arrested and taken to U.S. Naval Station Guantanamo Bay, Cuba, for transfer to Miami.

o U.S. Coast Guard seizes fishing vessel
On 13 Sept., the U.S. Coast Guard "Island"-class Patrol Boat USCGC Galveston Island (WPB 1349) observed the F/V Taiko Maru (Japanese-registry) hauling longline gear 5 kilometers/3 miles inside the U.S. Exclusive Economic Zone of Guam. The vessel and 2.5 tons of catch were seized and escorted it to Apra Harbor, Guam, where custody was transferred to the U.S. National Marine Fisheries Service.

o Mexican-registry fishing vessel seized
On 24 Sept., a Mexican-registry fishing vessel with three people aboard was sighted by the U.S. Coast Guard "Island"-class Patrol Boat U.S.C.G.C. Kodiak Island (WPB 1341) about 24 kilometers/15 miles north of the Mexican border. The vessel fled as the cutter approached, but suffered an engine failure and was boarded eight kilometers/five miles north of the border. Two sharks were found on the vessel, which were seized and, along with the boat, turned over to the U.S. Border Patrol for prosecution.

o S/V Bonaventure burns after U.S. Coast Guard boarding
The S/V Bonaventure (Canadian-registry) was consensually boarded by the U.S. Coast Guard Reliance-class Medium-Endurance Cutter U.S.C.G.C. Durable (WMEC 628) the night of 24 Sept., 24 kilometers/15 miles southeast of Great Inagua, the Bahamas. The master withdrew his consent as the boarding party worked forward, and the group returned to the cutter while the Canadian Government was contacted for permission to continue. The next morning, the vessel caught fire and burned to the waterline. The two aboard were rescued by the USCGC Durable from a raft and are being taken to Miami.

o F/V Gina Lisa suffers fuel fire off San Diego
The F/V Gina Lisa sent out a distress call 18 Sept. after a fuel fire in her engine compartment while 56 kilometers/35 miles west of San Diego. The F/V Pearl Mar came alongside to fight the fire, and among those responding to the distress call was the U.S. Navy Spruance-class Destroyer USS Oldendorf (DD 972) and the Oliver Hazard Perry-class Guided-Missile Frigate USS Lewis B. Puller (FFG 23) as well as the U.S. Coast Guard "Point"-class Patrol Boat USCGC Point Carrew (WPB-82374) and a Coast Guard helicopter, which winched down additional fire extinguishing equipment. By the time the two Navy ships arrived, the fire was extinguished and the F/V Gina Lisa was heading to port under her own power. The USCGC Point Carrew arrived shortly after.

o U.S. Coast Guard intercepts ship with 109 migrants aboard
The U.S. Coast Guard intercepted 109 undocumented Chinese migrants aboard the M/V Xing Da (Chinese-registry 67.4 meter/221 foot vessel) about 960 kilometers/600 miles southeast of Boston and 176 kilometers/110 miles north of Bermuda at 1600 2 Oct. The ship, homeported in Zhong Shan, Guangzhou, sailed for Boston in June. The M/V Xing Da was spotted by the lead ship of the USCGC Reliance (WMEC 615)-class Medium-Endurance Cutter and during a boarding, the M/V Xing Da's engines and generators failed. The USCGC Reliance took the ship in tow, and due to weather, headed to Bermuda, where the tow arrived on 8 Oct. The 109 were taken off the ship 9 Oct. and flown on two Coast Guard aircraft to U.S. Naval Station Guantanamo Bay, Cuba, along with the 26 crew under guard by U.S. Marine Corps personnel. On 8 Oct., three Chinese residents ot New York were indicted in Boston, each with two counts of conspiracy to commit alien smuggling "for purposes of commercial advantage and private financial gain" and two counts of attempted alien smuggling. They face up to 10 years in prison for each alien and a fine of up to U.S.$250,000. The three, who were involved with the M/V Xing Da, were part of a criminal

organization based in New York that smuggled Asian citizens into the United States for several years. The smugglers had agreed to pay an undercover U.S. Immigration and Naturalization Service agent U.S. $500,000 to get the 109 aboard the M/V Xing Da into the United States. They were to disembark to a fishing vessel from Falmouth, Mass., and then be taken ashore to work in New York "sweatshops;" each passenger paid the smugglers U.S.$30,000, part of it in China with the rest to be worked off in the "sweatshops." In reality, the master of the fishing vessel was the same undercover agent, who had been in contact with the smugglers since December 1995. Nai Fook Li, 30, was arrested aboard the fishing vessel. The other two Hui Lin, 34, and Yiu Ming Kwan, 45, were arrested in New York. There is evidence that the ship's crew include enforcers for the gang. Those aboard said that the crew forced the dehydrated passengers to buy water from them. Only a few pounds of rice and bottled water were found aboard.

o U.S. Coast Guard boarding's
"Island"-class Patrol Boat USCGC Vashon (WPB-1308) found the S/V Maxann O 18 kilometers/11 miles south of Virgin Gorda, British Virgin Islands. A boarding party found a 0.2 kilograms/0.5 pounds of marijuana hidden behind a bulkhead in the engine room. The vessel, crew and marijuana were turned over to British Virgin Island police in Roadtown. On 7 Oct., the "Island"-class Patrol Boat USCGC Key Biscayne (WPB-1339) located a 9.0 meter/30 foot speedboat west of Cabo San Juan, Puerto Rico. The vessel beached itself and two of the three persons aboard escaped. A boarding team arrested one crewmember and seized 810 kilograms/1,800 pounds of cocaine. The vessel was towed to San Juan, Puerto Rico, where the vessel, crewmember and the cocaine were turned over to the U.S. Customs Service.

o USCGC Kodiak Island suffers engine fire off Alabama
On 3 Oct., the U.S. Coast Guard "Island"-class Patrol Boat USCGC Kodiak Island (WPB 1341) suffered an engine room fire off Alabama. The fire was extinguished with several vessels in the area assisting. There were no injuries and the vessel headed to port.

o U.S. Coast Guard launches second new coastal buoy tender
The U.S. Coast Guard launched its second Ida Lewis-class Coastal Buoy Tender at 1100 14 Sept. at Marinette Marine Corp., Marinette, Wis. Joyce Downey, wife of U.S. Deputy Secretary of Transportation Mortimer L. Downey, christened the Katherine Walker (WLM 552). Mortimer L. Downey was the principal speaker. WLM 552 is named for Katherine Walker, who was the keeper of Robbins Reef Light in New York harbor from 1886 to 1919. She is credited with saving the lives of 50 people who were shipwrecked. The Coast Guard's Vice Commandant, Adm. Richard D. Herr, also attended. WLM 552 was ordered in February 1995 and will be commissioned in February 1997.

U.S. NAVY
o U.S. Navy's Raven (MHC 61) to christen
The U.S. Navy Osprey-class Coastal Minehunter Raven (MHC 61) will be christened during ceremonies at 0930 28 Sept. at Intermarine U.S.A., Savannah, Ga. Retired U.S. Navy Adm. Leighton W. Smith, Jr., former Commander in Chief, U.S. Naval Forces, Europe/Commander in Chief, Allied Forces, Southern Europe, will be the ceremony's principal speaker. Dorothy Smith, wife of Adm. Smith, will be the ship's sponsor. Two previous ships have been named Raven: a schooner (1813 - 1815) of the War of 1812 and a minesweeper, AM 55 (1940 - 1967), that earned three battle stars as the lead ship of the class of 93 vessels of the Royal Navy and U.S. Navy during World War II. MHC 61 was authorized fiscal year 1993, ordered 31 March, 1993 and laid down 4 May, 1994. The Raven will join the U.S. Atlantic Fleet next year with Lieut. Cmdr. Sam Howard, a native of Mount Holly, N.J., as the commanding officer. The ship will be homeported at U.S. Naval Station Ingleside, Texas.

o USS Theodore Roosevelt and USS Leyte Gulf collide
The U.S. Navy Nimitz-class Nuclear-powered Aircraft Carrier USS

Theodore Roosevelt (CVN-71) and the Ticonderoga-class Guided-Missile Cruiser USS Leyte Gulf (CG-55) collided at 0253 14 Oct. about 160 kilometers/100 miles off Cape Hattaras, N.C. There were no injuries. The USS Theodore Roosevelt suffered stern damage and the USS Leyte Gulf suffered bow damage. The former will remain at sea, while the latter returned to port. The ship's had been involved in JFEX (Joint Fleet Exercises) involving the Theodore Roosevelt Battle Group in the Va Capes Op's Area (aka Giant Killer) prior to their departure to relief the USS Enterprise. Some of these op's were heard by WUN'ers on 5425.0 USB.

o Iranian, U.S. naval vessels collide in Arabian Gulf
The lead ship of the Islamic Republic of Iran Navy Bayandor (81)-class Corvette collided with the U.S. Navy Ticonderoga-class Guided-Missile Cruiser USS Gettysburg (CG-64) in the northern Arabian Gulf at 1200 13 Oct. There were no injuries on the USS Gettysburg, with minor damage to starboard flight deck safety nets. The ship was escorting the Nuclear-powered Aircraft Carrier USS Enterprise (CVN-65) at the time, with the Bayandor on a parallel course. After the collision, the Bayandor stopped and later got underway away from the U.S. ships.
USS Enterprise had steamed in the Adriatic Sea Sept. 12 ready to assist U.N. Peacekeepers during the Sept. 14 Bosnian elections, it received word that its presence was needed elsewhere. Commander, Enterprise Battle Group, RADM Martin Mayer spoke to the crew over the ship's public address system and ended days of speculation concerning "Big E's" possible involvement with operations in the Fifth Fleet theater. He told the crew that Enterprise had been ordered into the Red Sea. Big E then steamed into the Red Sea Sept. 15. Enterprise Commanding Officer CAPT Michael Malone said, "On Sept. 12th we were off the coast of Bosnia and three days later we were in the Red Sea responding to the president's call. This is a fine example of the mobility and flexibility that a forward-deployed aircraft carrier provides for our national security interests."

o Marine Harriers Used in Operation Decisive Endeavor
USS SAIPAN (LHA 2) - (NENS) -- AV-8B Harriers belonging to 24th Marine Expeditionary Unit (MEU) Special Operations Capable (SOC) recently conducted flight operations over the former Republic of Yugoslavia in support of Operation Decisive Endeavor. The Harriers are attached to Marine Medium Helicopter Squadron 266, the aviation combat element of 24th MEU(SOC).
The detachment's flights over Bosnia were basic orientation flights designed to familiarize the pilots with Implementation Force (IFOR) Forward Air Controllers (FAC) and their procedures, according to MAJ Matt Schwob, detachment officer-in-charge.
"We also conducted in-flight refueling operations," added MAJ Schwob, who served in Operation Deny Flight in 1995 while deployed with 22nd MEU. "We fly these local-area orientation flights each time we enter the area." Once the planes fly into Bosnian air-space they contact one of the local (IFOR) controlling agencies who assign them a mission for the flight. Though these recent flights were only orientation flights, the planes could be assigned any mission from close-air support to low-over flights of particular sites to ensure awareness that NATO planes are in the area.

o U.S. Navy's Gonzalez to be commissioned
The U.S. Navy Arleigh Burke-class Guided-Missile Destroyer Gonzalez (DDG 66) will be commissioned at 1400 Oct. 12 at U.S. Naval Station Ingleside, Texas. The ship is named for Sgt. Alfredo Gonzalez (1946-1968), U.S. Marine Corps, who was awarded a posthumous Medal of Honor for actions during the Vietnam War. U.S. Secretary of the Navy John H. Dalton will be the principal speaker, and Dolia Gonzalez, the ship's sponsor, will commission the ship named for her son. The ship will be part of the U.S. Atlantic Fleet, with Cmdr. Frederick D. Allard, Jr., a native of Fort Belvoir, Va., as the commanding officer. The ship will be homeported in Norfolk, Va. DDG 66 was authorized fiscal year 1991, ordered 16 Jan., 1991, laid down 3 Feb., 1994, and launched at General Dynamics Corp.'s Bath Iron Works in

Bath, Maine, on 17 Dec., 1994.

o Status of the Navy: Oct. 7, 1996

Aircraft:	4,859
Ships:	356
At Sea:	178 ships (50%)
Deployed:	103 ships (29%); 49,392 personnel
Exercises:	12
Port visits:	14
SSNs at Sea:	32 (40%)

Carriers/Airwings at Sea:
USS Enterprise/CVW-17: Bahrain
USS Constellation: Local Ops, Eastern Pacific
USS John F. Kennedy: Local Ops, Western Atlantic
USS Carl Vinson/CVW-14: Transit, Arabian Sea

LHAs/LHDs/LPHs at Sea:
USS Kearsarge: TCAT 1-97, Western Atlantic
USS Boxer: Local Ops, Eastern Pacific
USS Nassau: Transit, Western Atlantic
USS Saipan/24th MEU: Local Ops, Mediterranean Sea
USS Tarawa/13th MEU: Transit, Western Pacific

Ships Assigned to Middle East Force:
USS Valley Forge, USS Jarrett, USS O'Brien, USS Ardent, USS Dextrous, USS Laboon, USS Doyle, USS Hewitt, USS Stump, USS Stephen W. Groves

Other Exercises/Operations:
Operation Southern Watch, Arabian Gulf
Counter-drug operations, Caribbean
Unitas XXXVII Phase Seven, South Pacific
Maritime Interception Operations, Arabian Gulf
West African Training Cruise (W.A.T.C.), West Africa
Cooperative Venture, Baltic Sea
Khangar Hadd, Arabian Sea
Native Fury, Arabian Gulf
Lungfish, Indian Ocean
JTFEX 1-97, Western Atlantic
TWA Flight 800 Salvage Operations, Vicinity Long Island

NAVEUR Ships September 18:

Routine Operations:

USS R.G. Bradley (FFG 49)	Routine Ops	Med
USS Klakring (FFG 42)	Routine Ops	Med
USNS Littlehales (TAGS 52)	Routine Ops	Med

In Port:

USS Austin (LPD 4)	In Port	Izmir, Turkey
USS Briscoe (DD 977)	In Port	Istanbul, Turkey
USS Chinook (PC 9)	In Port	Cagliari, Sardinia
USS Firebolt (PC 10)	In Port	Izmir, Turkey
USS Gunston Hall (LSD 44)	In Port	Izmir, Turkey
USS La Salle (AGF 3)	In Port	Gaeta, Italy
USS Mitscher (DDG 56)	In Port	Istanbul, Turkey
USNS Mohawk (TATF 170)	In Port	Khalkis, Greece
USNS Pathfinder (TAGS 60)	En Route	Catania, Sicily
USNS Patuxent (TAO 210)	In Port	Augusta Bay, Sicily
USS Philippine Sea (CG 58)	In Port	Valletta, Malta
USS Platte (AO 186)	In Port	Haifa, Israel
USS Saipan (LHA 2)	In Port	Izmir, Turkey
USNS Saturn (TAFS 10)	In Port	Souda Bay, Greece
USS Simon Lake (AS 33)	In Port	La Maddelena, Sardinia

ROYAL NAVY

o HMS Scott christened

Carolyn Portillo, wife of the British Minister of Defense Michael Portillo, christened the Royal Navy's new ocean survey vessel HMS Scott at the Appledore Shipyard in Bideford, England, on 13 Oct. The ship, displacing 13,300 tons, is strengthened to operate in ice. She will be available more than 300 days annually, through a new crew rotation in which the crew will spend 70 days aboard followed by 30

days ashore. Some crewmembers will have single cabins and there are two large recreational areas. The ship is the largest to be built at Appledore Shipyard. Constructed to merchant ship standards, she will be handed over on 28 May, 30 months after being ordered. H.M.S. Scott is 131.13 meters/430.22 feet long, has a 21.5 meter/70.5 meter beam, an 8.3 meter/27 foot draft and two four-megawatt Krupp-MAK diesels with a single controllable-pitch propeller through a Volda gearbox for 17.6 knots. Some 42 crew are embarked for surveying, but there are accommodations for 63. She is named for Capt. Robert Falcon Scott, who led an Antarctic expedition

o Royal Navy ship visits China, first time in 10 years
The Royal Navy Sheffield-class Guided-Missile Destroyer HMS Exeter (D-89), homeported at Portsmouth, England, arrived in Qingdao, China, on 7 Oct., the first British naval vessel to visit China in a decade. She was in port until 11 Oct. The last British ship visits were to Shanghai in 1980 and 1986.

o Vigilant commissioning
Vigilant was rolled out of the shed on Friday 20th September, inspections will be carried out on 1st and 2nd October and again at the end of October. A commissioning ceremony will take place at Barrow on Saturday 2nd November involving Lady Jane Frier. It is expected that a week later the vessel will sail to Faslane, carry out acceptance trials and be handed over to the Royal Navy, under water. It is thought that only then does the vessel become HMS Vigilant.

OTHER NAVY's
o Ingalls Shipbuilding working on ex-U.S. ships for Bahrain, Egypt Two former U.S. Navy Oliver Hazard Perry-class Guided-Missile Frigates are being overhauled at Litton Corp.'s Ingalls Shipbuilding Inc., Pascagoula, Miss., for Bahrain and Egypt. According to "Ingalls News," submitted by Jeff A. Cwiok (cwiokster@aol.com), the former USS Gallery (FFG 26) has moved to Ingalls' east bank to begin an overhaul, while the former USS Jack Williams (FFG 24) will start an overhaul in early October. The USS Gallery was decommissioned and transferred to the Egyptian Navy on 25 Sept. at U.S. Naval Station Pascagoula. She is now the ENS Taba (F-916). Cmdr.Bruce Rasmussen, U.S. Navy, turned over the ship to Capt. Maher Aboul Naga, Egyptian Navy. The ship began a six week drydock period on 3 Oct. The USS Jack Williams was decommissioned and transferred to the Bahrain Amiri Navy on 13 Sept. and is now the BANS Sabha.

o D.C.N. to modernize Brazilian frigates
Direction Construction Navale on 20 Sept. signed a U.S.$80 million contract to modernize the Brazilian Navy's six Niteroi-class Frigates. It is the first time a French yard will modernize warships not built in France; the class is based in Vosper Thornycroft's Mk 10 design, with the first four built by the designer at Woolston, U.K., between 1972 and 1978 and the last two by Ars. Ilha das Cobras in Rio de Janeiro, Brazil, between 1972 and 1980. The work will be under a six-year joint program between D.C.N. International and Modificao das Fregatas, a Brazilian group.

o RCMP makes drug seizure off Canada, U.S. Coast Guard in Caribbean
Twelve personnel of the Royal Canadian Mounted Police seized about eight tons of hashish and arrested three men after boarding a yacht off Cape Breton Island 11 Oct. The S/V Dame Blanche (17.6 meter/57.7 foot steel ketch) was then escorted to Cheticamp, Nova Scota. The vessel had been under surveillance by Canadian Air Command aircraft and the Canadian Maritime Command Restigouche-class Frigate HMCS Terra Nova (DDE-259) for a week. The RCMP found black hashish in bricks, 20 bricks to a to a pack, each wrapped in red cellophane and covered in paper bearing a fast-food restaurant logo. The three arrested, all residents of California, appeared in court in Port Hood on 15 Oct. Donald Clarence Chaney, 42, of Salinas; Theodore Rogers, 47, of San Clemente; and Christopher O'Keefe, 48, of Laguna Beach were each charged with three counts importing and possessing a

narcotic with intentions to sell it.

NATO/OTHER

o Dynamic Mix/Damsel Fair '96 Keeps Med Busy

LONDON - (NENS) -- Dynamic Mix/Damsel Fair '96 is a NATO-led joint, multi-national, multi-warfare, live exercise conducted in the Mediterranean and Aegean Seas. The exercise has crews training in maritime surface, mine countermeasure and air operations that could support amphibious operations and function effectively during multi-crisis situations.

Troops from the United States, France, Greece, Germany, Italy, Spain, Turkey, United Kingdom, Belgium, Canada, Netherlands and Norway are participating in the exercise which runs through Oct. 6 (Damsel Fair portion ended Sept. 30).

U.S. Ships include USS Saipan (LHA 2), USS Austin (LPD 4), USS Gunston Hall (LSD 44), USS Firebolt (PC 10), USS Briscoe (DD 977), USS Philippine Sea (CG 58), USS La Salle (AGF 3), USNS Saturn (TAFS 10), USS Platte (AO 186) and USNS Patuxent (TAO 210).

o 24th MEU Trains in Exercise Rescue Eagle

DURRES, Albania - (NENS) -- Marines and Sailors of the 24th Marine Expeditionary Unit (MEU), Special Operations Capable (SOC), recently cross-trained with the Albanian Defense Force (ADF). It was this year's second exercise in the former communist country.

"The purpose of Exercise Rescue Eagle was to conduct cross-training and over-land search and rescue operations with the Albanian Defense Force in the spirit of partnership and peace," said COL Richard F. Natonski, commanding officer, 24th MEU(SOC). On the first day of the exercise, Navy SEALS, Marines and crew members from the Aviation Combat Element (ACE), Marine Medium Helicopter Squadron (HMM) 266 brought ashore the equipment needed for the exercise. During the next few days, the MEU trained with Albanians at two separate training sites located in mostly coastal, mountainous terrain.

NASA/USAF EASTERN TEST TANGE

o KSC Shuttle Schedules

Rick Baker forwarded info about the upcoming space shuttle launches:

STS-80, shuttle Columbia, is scheduled for launch on 8 November at 2:47 p.m. EST (07.47 UTC). If you listen to 10780 kHz early (like 1200/1300) you may hear the range safety ships (usually a USN ship and a USCG cutter) and the shuttle booster recovery ships check in with Cape radio for their frequency assignments.

STS-81, shuttle Atlantis, is scheduled for the 5th MIR docking mission. Launch: 12 January 1997.

STS-82, shuttle Discovery, is scheduled for a servicing mission to the Hubble Space Telescope. Launch: 23 February 1997.

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Thanks to Day Watson, Rick Baker, Jeff Jones, and Larry Van Horn. Items from The U.S. Navy News Service (NNS) and Steve Schultz's World Maritime News via the Ships list. PaulJ

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Utility Monitoring in the Maritime Bands
Editor: Day Watson (100712.3154@compuserve.com)
14, Gardens Road
CLEVEDON, North Somerset
US21 7QG United Kingdom

Hi Maritime WUNners. With the end of Sept came (in a flurry of postings) the cessation of Norddeich's HF WT service. CCG Halifax/VCS slipped away from all HF services with, as far as I can remember, a solitary reminder by Rick Baker just before the event. But we have some further comment on both these.

The BT Global Challenge round-the-world yacht race started and by the time you read this newsletter should be nearing (I trust safely) the end of the

first leg in Rio-de-Janeiro and a well-earned rest.

And on the subject of safety - well the World's oceans are lonely and can be very unforgiving places. Marine casualties are reported virtually on a daily basis. A few weeks ago I had an email from Tom Davies in S Africa outlining a recent casualty there. As the bias in this column is towards maritime radio I had to advise I could not use the item per se otherwise I'd be covering the wrong area of ship news.

However his email has made me think about another aspect of the search and rescue operation namely how the authorities charged with the responsibility of operating an SAR function in their area know what resources they have available. My reading resulted in an item on ship reporting systems.

First the traffic list:

- Ship reporting systems
- Norddeich Radio
- Halifax CG Radio
- Ship simplex RT channels
- New NAVTEX in Spain
- MARITEX node in China.
- Service bulletins
- UK arq changes
- Station overviews
  - Valparaiso Radio
  - Rome Radio
- Telecom Italia
- Italian Nets
- Shipping snippets

++++++ Ship reporting systems
In general terms these are to provide information on ship movements etc should a SAR incident arise. The best known system by far is AMVER run by the USCG New York. This was covered in depth in WUN newsletter of September 95 by Jim Navary. If you don't have it the WUN website archives will provide. From this information the authorities ashore can, by interpolation, ascertain which ships are most likely to be able to render early assistance.

But AMVER is not the only reporting system. There are smaller, though no less important, systems covering offshore waters of various nations round the World.

You may find traffic with a prefix as the first word in the text from the following table (an expansion on the list first given by Jim Navary in the Aug 95 WUN) which will indicate the nation (and therefore the general area) concerned.

Some of these systems are voluntary but others are deemed mandatory. The status column is flagged with a "V" or an "M" as appropriate where known. Where both are indicated it means the scheme is mandatory for ships of that nationality and voluntary for others.

Prefix	Nation	Status
ARES	Italy	MV
AUSREP	Australia	M
CHILREP	Chile	V
GEOREP	Georgia	V
GREENPOS	Greenland	MV
SHIPPOS	Denmark	V
INSPIRES	India	MV
IMOT	Israel	V
JASREP	Japan	V
KYSTKONTROL	Greenland	MV
SECOSENA	Argentina	M
SHIPREP	Peru	M
SINGREP	Singapore	V
SISTRAM	Brazil	MV
SSRS	Saudi Arabia	V

It is not intended to give detail of the parameters used in the text of these messages as these will vary from one administration to another. The article is merely to indicate that these systems exist and give pointers on recognizing the message. Even within one system, as with AMVER, there may be a number of different message formats. However much of the information will be self-evident.

++++++ Norddeich Radio
Ralf Radermacher advised us that on the 15th Oct DAN just would not lie down. With an amusing little anecdote "If all else fails..." he told us he was "just listening to DAN who, as we all know, has ceased all CW traffic, two weeks ago.

They're taking a telegram from a ship and have had such difficulty copying him in phone that they (a) changed the operator who then (b) requested them to send in Morse code, on the same freq.

They are having him send the telegram in CW while they are replying in USB. :-) Still some life in the old key, ey? "

Nice one Ralph - tks.

+++++ Halifax/VCS - the final days
Robert Ward is one of the Radio Operators at Halifax CG Radio/VCS.
He sent me the following note the other day just before we went to press about VCS's final days on CW. He says "As you probably know already, all VCS HF services; R/T, CW and SITOR were officially ended at 2359UTC September 30, 1996. That left us with MF and VHF R/T, and MF CW on 500kHz, 484kHz and 446kHz.
Well, the MF CW from VCS will cease probably at the end of this month, October, 1996, and if not at that time, then definitely at the end of November, 1996 when the operations are moved from Ketch Harbour to Dartmouth, Nova Scotia, overlooking the Bedford Basin and the city of Halifax. No provision whatsoever has been made in the new location for the operation of MF CW.
The MF CW service provided by VCS will then be taken over by Sydney Coast Guard Radio/VCO, and VCS will no longer be heard on CW, at all.
In a few short years, VCS has gone from being the largest and busiest Coast Guard Radio station in Canada, to being a standard MF-VHF R/T operation. I guess that's progress...
Please let me know if there's any other information about VCS that the WUN readers might be interested in."
Robert (robert.ward@ns.sympatico.ca) is also the guy who looked after (extra curricular) the QSLs for those of you who reported. I'm sure I speak on your behalf in thanking Robert for this undertaking and in wishing him and his colleagues all the best in whichever way their careers might now take.

++++++ Ship simplex RT channels
Mid-September I put together some frequencies in response to a query on WUN. Having done the work I pass the section relating to ship simplex frequencies on to all. These frequencies probably receive less attention than the paired ones (duplex) for link call traffic.

4146	4149					
6224	6227	6230				
8294	8297					
12353	12356	12359	12362	12365		
16528	16531	16534	16537	16540	16543	16546
18825	18828	18831	18834	18837	18840	18843
22159	22162	22165	22168	22171	22174	22177

++++++ New NAVTEX in Spain
The following NAVTEX message in Spanish and English was being broadcast on 15/Oct when copied by Keith Haywood who then posted an email to WUN list asking for Valencia's address

```
22:34:22 UTC ZCZC XA01
22:34:23 UTC 09 PIEI UTC OCT 96
22:34:27 UTC NAVAREA III 000
22:34:29 UTC MENSAJE DE PRUEBA DE EMISION DESDE
22:34:34 UTC ESTACION NAVTEX CABO LA NAO
22:34:38 UTC POR FAVOR, REPORTEN RECEPCION AL
22:34:43 UTC CRCS VALENCIA
22:34:45 UTC TEST MESSAGE FROM NAVTEX STATION OF
22:34:50 UTC CABO LA NAO
22:34:52 UTC PLEASE, REPORT THE RECEPTION OF
22:34:57 UTC THIS MESSAGE TO THE CRCS VALENCIA
22:35:02 UTC C.R.C.S. VALENCIA
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Since then ALRS Vol.3 has been updated with broadcasts shown under Valencia [X] (MRCC) with the transmitter located at Cabo de la Nao. The broadcasts of weather/nav warnings are given as being at 0350 0750 1150 1550 1950 and 2350. As far as reporting address is concerned the best we seem to be able to come up with is Telefonica de Espana Centro de Communicaciones Radiomaritimas (CCR). Valencia with a FAX number given as +34 (9)6 372 51 62

++++++ MARITEX node in China
A press release dated May 22 was received the other day wherein Telia Mobitel was announcing a new MARITEX node in China.
The new station under an agreement with Guangzhou Marine Communications & Nav Aid Co will be located at Guangzhou. It was expected to be operational by October 1996. That means any day now if it is not yet live - further details awaited. The new station is to provide an improvement in the MARITEX network for the Indian Ocean, SE Asian waters and Western Pacific.

++++++ Service bulletins
Coast stations periodically will transmit service bulletins advising of changes to frequencies and watchkeeping arrangements etc. I would be interested in receiving a verbatim copy of any of these which you might catch indicating freq and date/time of receipt. Those bulletins referring to tariffs I'm not interested in. Thanks in anticipation.

++++++ UK arq changes
BT propose to close GNK1 (Wick Radio - 2823.7Khz - arq channel located at Norwick in the Shetland Islands) from 1st November 96. Ships have been requested to use other mf/hf channels.
Also Portishead Radio now has the 22 Mhz arq channel GKE7/22377 back in service.

++++++ Valparaiso Playa Ancha Radio overview
Location: Chile at 32.48S 71.29W
WT service
Marker: "vvv de CBV qsx 8 12 16 and 22 mhz k"
Monitors call channels 1 3 4
Traffic lists: On every even hour for the frequencies in use from
4349 6337 8522 12663 16914.5 22473
Weather: On 4228 8677 12714 17146.4 at 0110 and 1845 in Spanish
and English.
Nav warnings: On 4228 8677 12714 17146.4 at 0215 1430 2210 in Spanish
and English.

4256	4265	4301	4337	4349	6337	6372	6379.5
6393	6407.5	6414	6428	6467	8453	8461	8478
8522	8606	12663	12714	12747.5	12768	12826.5	12856
12898.5	12957	16851	16914.5	16947.6	16956	17002.4	17039
22360.5	22447	22473	22546				

Telex service
Station nr 1860 ---> selcal XFCV
Marker "CBV and tuning burst
No fec broadcasts for traffic lists or wx/navs are made.
All bands are H24 bar 6 MHz which is on request

CBV	Ship	Chan
4177.5	4177.5	--
4214.5	4176.5	[409]
6268	6268	--
6318.5	6276	[609]
8420.5	8380.5	[809]
8421.5	8381.5	[811]
12583.5	12481	[1209]
12584.5	12482	[1211]
16811	16687.5	[1609]
16812	16688.5	[1611]
22380.5	22288.5	[2209]
22381.5	22289.5	[2211]

HF RT service
Weather: On 4357 [Ch:401] at 0135 and 1435

CBV	Ship	Chan
4146	4146	---
4417	4125	[421]
6516	6215	[606]
8779	8255	[821]
13137	12290	[1221]
17302	16420	[1621]
22756	22060	[2221]

Address: Centro de Telecomunicaciones Maritimas,
Subida Carvallo S/N
Playa Ancha (Valparaiso)
Chile

Research/Acknowledgements
ALRS Vol.1 (96/97)
Brannolte/Siebel SEEFUNK
CFL Ed.9
Klingenfuss Guide to Utility Radio Stations 96

++++++ Rome Radio overview
Location: Italy at 41.48N 12.31E
WT service
Watchkeeping: Maintained according to the seasonal table

	Win(1 Oct-31May)	Sum(1Jun-30Sep)
4 Mhz	H24	H24
6 Mhz	2230-0600	-
8 Mhz	H24	H24
12 Mhz	0600-2200	0500-2100
16 Mhz	0600-2200	0500-2100
22 Mhz	0700-2000	0600-1900

Marker: "vvv de IAR k 4 8 12 16 22 = lsn 22 mhz and reply 16 mhz"
Monitors call channels 3 4 5 6
Traffic lists: These are sent at 0000 0400 0800 1200 1600 2000 on 4292 8530 13011 17160.8 22634. In addition the lists at 0000 0400 1200 and 1600 include those from ICB/IQH/IQX whilst the 0800 and 2000 lists are followed by transmissions of blind traffic from IAR.
Note: These lists cover WT/RTT/RT modes.
Wx forecasts: At 0830 2030 on 4292 8530 13011 17160.8 and at 0500 0650 1250 1850 on 4292. These are in Italian followed by English. Also at 0700 1900 on 8530 13011 17160.8 22634 in English.

IAR24	4292	IAR4	4320
IAR6	6409.5	IAR26	6418
IAR28	8530	IAR38	8656
IAR8	8670	IAR33	12996
IAR23	13011	IAR3	13015.5
IAR37	17005	IAR27	17160.8
IAR7	17206.1	IAR32	22628.5
IAR2	22630.5	IAR22	22634

Telex service
Station Nr 2070 ---> selcal QVYV

Marker "IAR" and tuning burst.
No fec broadcasts for traffic lists or wx are made.

IAR	Ship	Chan	
4210.5	4172.5	[401]	H24
4216.5	4179	[414]	
8418	8378	[804]	H24
8426	8386	[820]	
12602.5	12500	[1247]	H24
16820	16697	[1628]	0500-2000
22398	22306	[2244]	On request

Telex service
Station Nr 2070 ---> selcal QVYV
Marker "IAR" and tuning burst.
No fec broadcasts for traffic lists or wx are made.

IAR	Ship	Chan	
4210.5	4172.5	[401]	H24
4216.5	4179	[414]	
8418	8378	[804]	H24
8426	8386	[820]	
12602.5	12500	[1247]	H24
16820	16697	[1628]	0500-2000
22398	22306	[2244]	On request

HF RT service
Watchkeeping: 0600-2200 but 1 hour earlier when Summer time is in force.
Traffic lists: see WT lists.

IAR	Ship	Chan	IAR	Ship	Chan
4360	4068	[402]	4390	4098	[412]
4414	4122	[420]	4417	4125	[421]
4423	4131	[423]	6504	6203	[602]
6510	6209	[604]	6516	6215	[606]
8758	8234	[814]	8773	8249	[819]
8776	8252	[820]	8779	8255	[821]
8794	8270	[826]	8809	8285	[831]
8713	8294	[836]	13092	12245	[1206]
13101	12254	[1209]	13113	12266	[1213]
13128	12281	[1218]	13137	12290	[1221]
13164	12317	[1230]	13182	12335	[1236]
17248	16366	[1603]	17257	16375	[1606]
17287	16405	[1616]	17302	16420	[1621]
17311	16429	[1624]	17377	16495	[1646]
19770	18795	[1806]	22699	22003	[2202]
22726	22030	[2211]	22756	22060	[2221]
22762	22066	[2223]	22804	22108	[2237]
22825	22129	[2244]	26172	25097	[2510]

Address:
Stazione Radio Costera PT
Roma Radio
Via della Cesarina 282
I-00139
Rome

Research/acknowledgements
ALRS Vol.1 1996/97
Brannolte/Siebel SEEFUNK (96)
CFL Ed.9
Klingenfuss 1996 Guide to Utility Radio Stations

++++++ Telecom Italia
Paolo Romani from Torino sent the following to Ary Boender (who says he "tried to translate it as well as I could"). Thanks to both.
Telecom Italia is responsible for the Italian coast stations. They started a new automatic service to improve the radio telephone traffic between the

ships and coast stations. The system is called Autolink. The system apparently does not work too well and the 'marconisti' (radio operators) are very dis-satisfied and demand modifications. Besides these problems, another bigger one keeps the marconisti busy. GMDSS is the magic word here. Over 1000 persons will lose their jobs because of GMDSS. On top of this, Telecom Italia plans to close down the HF/VHF facilities of all but two coast stations. Roma Radio will stay live on the air for the Northern part of Italy and Palermo Radio for the southern part. The other stations will be remote controlled by one of the other two.

++++++ Italian Nets
Also, via the same route (thanks guys) I am advised that when one speaks Italian, it could be interesting to check the following freqs where all marconisti gather to discuss their common problems.

2296 kHz, various (08.30, 09.30, 15.00 UTC)
4077 kHz, Sidemar Shipping Company network (08.15 UTC, also on 8207 kHz)
4077 kHz, various (16.45 UTC)
4143 kHz, various -the most important network- (very busy, sometimes 30-40 operators join in. There is a net-coordinator who also listens on 4131 kHz)
12353 kHz, various -very busy-
16543 kHz, various (14.00 UTC, also on 8230 and 18840 kHz).

++++++ Shipping snippets
Thanks go to Steve Schultz and the SHIPs list, Rick Baker and Fairplays Ship orders worldwide.

At the end of June, 2,589 ships of 45 million gross tons were on order worldwide. This compares to 44.1 million gross tons as of June 1995. Japan and South Korea accounted for 58 percent, with the former having orders of 13.6 million and the latter 12.7 million. China followed at 2.3 million, then Germany, Poland and Italy. The United States had 354,000 gross tons on order, ranking it at 16th. Of those on order worldwide, 1,342 of 16.1 million gross tons will be delivered by the end of the year. In 1997, 918 ships will be delivered and 329 will arrive in 1998. Containerships account for 402 ships on order, with a total capacity of 777,587 TEUs. In June 1995, there were 315 containerships on order with a capacity of 612,030 TEUs. Over 240 are under 2,000 TEU capacity each, 74 are between 2,000 and 2,999 TEUs, 31 are between 3,000 and 3,999 TEUs and 36 are between 4,000 and 4,999 TEUs. There are 20 containerships on order of over 5,000 TEUs. Oil tankers account for 192 ships of 15 million deadweight tons, compared to 245 at 21 million deadweight tons a year ago.

U.S. Senate approves Maritime Security Act

The U.S. Senate on 24 Sept. approved, 88 to 10, a new plan for U.S.$1 billion in subsidies over 10 years for the U.S.-registered fleet. The U.S. House of Representatives approved the Maritime Security Act in December. The bill reduces direct subsidies to ocean carriers to $100 million a year through 2005. Eligible operators will receive a flat payment of U.S.$2.3 million per ship in fiscal year 1996 and $2.1 million per ship for each fiscal year through 2005. Vessels must operate at least 320 days per year and in U.S. foreign trade, and of course must be U.S.-registered, have U.S. citizens as crews and be available during war.

Port Everglades receives U.S.$43 million grant

Port Everglades has received a U.S.$43 million grant from the Florida Seaport Transportation and Economic Development Commission. The money will fund cruise terminal improvements, new gantry cranes, widening of roads, improvements on Eller Drive, dredging, channel widening, property acquisition and new crane rails.

Woods Hole to undertake second phase of M/V Derbyshire survey

The second phase of the M/V Derbyshire survey will be undertaken by Woods Hole Oceanographic Institute in early 1997. It will involve a sonar and photographic survey of the site, as well as video and photographs of specific parts.

Foresight buys former Adriatic Tankers ships

Foresight Group has bought five former Adriatic Tankers ships from CIT bank, which will retain 15 percent. The M/T Hudson, the M/T Ocean Breeze, the M/T Dina, the M/T Mary and the M/T Kobe J will be deployed in southeast Asia. They have been laid-up for a year.

Leond Maritime buys three former ABC Containerline vessels

Leond Maritime has bought three former ABC Containerline bulk carriers. The M/V Brussel (41,100-dwt bulk carrier built in 1979) was purchased at auction in Halifax for U.S.$4.6 million. Leond Maritime had to deal with U.S.$830,000 in outstanding claims against the ship. She has been renamed the M/V Nel and is registered in Cyprus. On 16 Sept., Leond Maritime purchased the M/V Helen (42,566-dwt bulk carrier built in 1978) and she has been renamed the M/V Blue L. Also bought was the M/V Deloris (42,562-dwt bulk carrier built in 1978), which will be delivered later this month and renamed the M/V Margo L. Socanav bankrupt, fleet sold Socanav Inc., the largest Canadian tanker operator, has been placed under bankruptcy protection. Its 11 vessels have been sold to Gorse Down Canada for U.S.$8.2 million. Gorse Down Canada is a subsidiary of Star Maritime Services (U.S.A.) Inc., based in Miami.

Color buys Larvik

Color Line bought Larvik Line from Larvik Scandi Line for U.S.$74 million in cash on 1 Oct. Included is an eight-year charter of the M/V Peter Wessel (3,630-dwt, 2,000 passenger capacity ferry built in 1981) and an option to buy her. Color Line, the Norwegian ferry operator, will now have five services and seven vessels.

Largest passenger ferry in northern Europe launched

The M/V Isle of Inishmore, the largest multipurpose passenger ferry in northern Europe, was launched at Van der Giessen-de Noord on 4 Oct. for Irish Ferries. The 33,000-dwt ferry cost U.S.$125 million and will enter service in early 1997. Registered in Ireland, she will operate between Dublin, Ireland, and Holyhead, Wales.

Diamond Cruise Line bankrupt

Diamond Cruise Line has been placed in bankruptcy by a court in Helsinki, Finland. The line was allowed to attempt to restructure debt in May 1995. Diamond Cruise Line owns the M/V Radisson Diamond (20,300-gt, 1,956-dwt twin-hull passenger ship built in 1992, operated by Silja Line).

Empress Cruise Lines to start Tampa to Mexico ferry service

Empress Cruise Lines plans to begin a regular ferry service from Tampa, Fla., to the Yucatan Peninsula in February. The service will sail four times a week, using the M/V Mayan Express and the M/V Seminole Empress.

Seacor Holdings buys Smit International's offshore supply fleet

Seacor Holdings Inc. said 14 Oct. it has agreed to buy the 49 offshore supply vessels of Smit Lloyd, a unit of Smit Internationals N.V. Smit Lloyd will now operate as Smit-Seacor.

New S.American-Europe service

Maersk Line of Denmark, SEA-LAND, and Brazilian operator Transroll Navegacao are undertaking a vessel sharing agreement linking six ports in Brazil and Argentina with five in Europe.

MSA (UK) detain 23 ships

The UK's Marine Safety Agency detained 23 ships during September at the country's ports after they failed port state control safety inspections.

New liners for R Shipping

R Shipping Inc., an affiliate of Renaissance Cruises Inc., has ordered two new 690-passenger, 350-cabin ships. Chantiers de

l'Atlantique, Saint-Nazaire, France, will build the two, designed by John McNeece, London, to reflect an "old world" liner. The projected cost is over U.S.$300 million with construction starting in December and the first keel laying in June. They will be delivered in June 1998 and February 1999.

QE2 hits whale

The QE2 hit a 15-ton whale during a voyage from Cadiz to Lisbon. The 18 meter/60 foot whale was discovered against the ship's bow when she entered Lisbon on 15 Sept. It is suspected that the whale was suffering from a disease or was already dead before the collision.

Royal Caribbean plans

Royal Caribbean have announced that in December they will move the ship to the Bahamas short cruise market. Preceding this will be a refurbish program (costing a reported $6-million). This will take 2 weeks from Nov 30 when she enters the Beth Ship drydock near Baltimore, Md.
A total of 220 third and fourth berths will be added to existing cabins, greatly increasing her capacity. A video arcade complete with virtual reality games is to be created next to the casino.

Public areas will undergo major changes.
When this has been completed Sovereign of the Seas will offer 3 and 4-night cruises from Miami to Nassau and CocoCay (Bahamas) as well as a new regular port, Key West. Starting on Dec 13 she will take over the short cruise routes operated by RCCL's Nordic Empress.

Nordic Empress is to move from Miami to San Juan to offer 3 and 4 night cruises to St. Thomas, St. Croix and St.Maarten until June of next year when she will move to Port Canaveral to offer customers 3 and 4-night short cruises to Nassau and CocoCay.

Royal Caribbean operate's 10 modern ships with a total capacity currently of 16,800. However between now and 1998, RCCL intend to introduce a further four ships with a total additional capacity of 7,900 passengers.

And the first of these is the Grandeur of the Seas and RCCL will be operating her this year (circa December) to the Eastern Caribbean. Being a young lady you'll want some of her vital statistics:-
74,000 tons
916 ft long, 105.6 wide, 25 feet draught.
Cruising speed 25 kts.
Accommodation 975 double occupancy staterooms.
Passengers 1950 Crew 760

We've learned she has the following public rooms

Great Gatsby Dining Room	Palladium Theater
South Pacific Lounge	Singing in the Rain Lounge
Schooner Bar	Champagne Bar
Champagne Terrace	Viking Crown Lounge
Conference Center	Card Room
Windjammer Cafe	Casino Royale
Club Ocean Children's Room	Optix Teen Center

together with ShipShape Fitness Center and Spa,
Sauna and Massage,
Boutiques of Centrum, Library,
Photo Gallery, Outdoor Pool,
Indoor/Outdoor Pool with Crystal Canopy,
6 Whirlpools, Pool Bar, Beauty Salon and Barber Shop, Medical Center, Sports Deck,
Jogging Track, Video Gameroom

For more RCCL information try the web site http://www.royalcaribbean.com.

++++++ finally in closing my thanks to Rainer Brannolte for adding his current volumes SPEZIAL-FREQUENZLISTE and SEEFUNK to my bookshelf. A nice handy size both have added data to that I require for my researches, with SEEFUNK being found particularly useful when it comes to obtaining addresses for Station Overviews (above) and trying to assist WUNners with their queries. Although written in Rainer's native German this has not spoiled my enjoyment in trying to understand the articles outside the universal and easily followed list format. Photographs, tables, maps, and sample QSLs are all helping.

So that's it guys/gals - the bottom of the barrel - good Dxing till next month - Day.

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New Products, Books, News and Reviews

Rick "RD" Baker, editor
1352 Cavalcade Dr., Austintown, Ohio 44515-3844, USA
utelistener@msn.com or ae411@yfn.ysu.edu

|Items to be reviewed, information about new products, books, software, or |
|events that would be of interest to the WUN membership, send them in care |
|of this column (not via the clubs D.C. address to save mail costs) |

This month we have the last of the new releases of Klingenfuss Publications to review. Also I have long awaited good news! We have, compliments of Computer Aided Technologies, a Hoka Code 3 Gold on the way to yours truly to review. I hope to have that done for the November or December issue depending on how much time I can log with the system. Computer Aided Technologies is the Hoka North American Distributor. Ok, on with the show....

BOOK's YOU'LL LIKE

o Internet Radio Guide, First Edition by Klingenfuss Publications

This 1996 first edition is a really fine effort for those who want to "surf the net" for information for the radio hobby. Coming at 352 pages and softbound, Internet Radio Guide list's hundreds of web sites worldwide. The chapters are divided into these categories: Amateur Radio; Aviation; Equipment; Geography; Intelligence Services; Meteorology; Navigation; Organizations and Services; Publications; Radio Clubs and Newsgroups (yes, WUN's web site is listed!); Radio Stations; Satellites; Solar and Geophysical Data; and Publications on CD & CD-ROM.

For example under Meteorology, we have the web site for the Neumayer Station, Antarctica. One can obtain 3-hourly routine synoptic observations or view a chart of current air temperature. Under Organizations and Services, are a wide assortment of military and government sites. Looking under Publications we find sites such as Marius Rensen's Radiofacsimile page, the Black Box Glossary of Data Communication, or the official site of Phrack Magazine.

Under satellites we can choose an assortment of sites that will permit you to view actual images updated in a variety of time frames. Want solar data to aid your Dx efforts? There are quite a few sites to choose from!

I've spent hours checking and I'm still amazed at some of the 'finds' in this book. There are hundreds of ways to use the data in the utility station hobby and it would be difficult if not impossible to find a more comprehensive collection that relates directly to our hobby.

Internet Radio Guide (First Edition) by Klingenfuss Publications is available through most sellers of hobby books and shortwave radio products or direct from Klingenfuss Publications, Hangenloher Str.14, D-72070 Tuebingen, Germany. For more information: (phone 49 7071 62830) or by e-mail 101550.514@compuserve.com http://ourworld.compuserve.com/homepages/Klingenfuss

NEWS

o Jorge Garzon of the Medi DX Club sent a release on their Long and Medium Wave Contest coming this winter.

WUN-v02

'MEDI DX' =AE LW/MW WORLD WIDE CONTEST

The MEDITERRANEAN DX GROUP is proud to announce the I 'MEDI DX' LW/MW World Wide Contest. The main goal of it, is promoting DXing on Long and Medium Wave Bands. This is a Contest open to all DXers throughout the world. The Contest will be regulated for the following RULES:

1. PARTICIPANTS. This Contest is open to all DXers all over the world, being member or not of the 'MEDI DX' Group.

2. DATES. The 'MEDI DX' Contest will be held in winter, when LW/MW propagation conditions turn better, on the following dates and periods:

1st PERIOD:From 0000 UTC of 15th DECEMBER 1996 to 2359 UTC of 28th DECEMBER 1996.

2nd PERIOD: From 0000 UTC of 05th JANUARY 1997 to 2359 UTC of 18th JANUARY 1997.

Sharers are not obliged to participate in both periods, but points will be rise if both of them are monitored.

3. FREQUENCIES. It is only permitted to DX from 0 kHz to 3000 kHz. It will be valid any BCB or UTILITY Station on that range. DXing above 3000 kHz is not valid. Each station can be logged only once through both series of the Contest.

4. LOGGINS. All listening must be done from the same shack. Portatil or Portable operation it is not allowed. Must be listened, at least, five different details of each station to be considered. Long distance DXing have to be recorded in order to be verified for the Organization.

5. POINTS. Points will be quoted as following:

A. 1 point for each station reported.

B. Distance Multiplier (D):
D<500 Km ----------> x1
500-1000 Km --------> x2
1000-2500 Km -------> x3
2500-5000 Km -------> x5
5000-8000 Km -------> x7
D>8000 Km ----------> x9=09

C. Station Power Multiplier (P):
P<1 Kw ----------> x4
1-5 Kw ----------> x3
5-50 Kw ----------> x2
P>50 Kw ----------> x1

D. Frequency Multiplier (F):
F<1 MHz ----------> x3
1-2 MHz ----------> x2
F>2 MHz ----------> x1

Total points are calculated as below (multipliers concern to each station logged):.

Total Points (Station1xMultiplier1)+(Station2xMultiplier2)+...

6. LOG SHEETS.</B> DXers must be send the Official Contest Sheets before the 1st of February, 1997 (envelope date stamp). Official sheets will be addressed to participants when registrations will be processed.

7. PRIZES. Prizes for the best three individuals.
Absolute Winner: KIWA POCKET LOOP Aerial.
2=BA Winner: (Not defined).
3=BA Winner: WRTVH 1997 Edition.

8. SPECIAL PRIZES. Two more Special Prizes have been established: For the most distant DX, and for the weakest station power. Both prizes

cannot be gathered each other. A 1997 Edition of 'Long & Medium Wave Stations in Europe, North Africa and The Middle East' is the prize for them.

9. DIPLOMS. Every participant will get a diplom of the Contest. Winners will get an special one.

10. FEES. The Contest has the following fees to participate:
"MEDI DX" Members: ESP 500, GBP 3.00, USD 4.00, FF 24.00, IRC 7.
No members : ESP 1000, GBP 5.00, USD 8.00, FF 45.00, IRC 12.

Fees can be sent through Money Order (Postal Giro) or Mandat International to: GRUPO DX MEDITERR=C1NEO, P.O.Box 4212, ES-41080-SEVILLA (Spain) or by cash with a letter.

Fee must be sent with the following details: Name, surname and full address, receivers and aerials to be used, and Geographic Coordinates of the listening post (or shack). It is very important to give the exact coordinates (degrees, minutes and seconds) in order to plot the azimuth maps. Then, official log sheets and material will be sent to DXers.

NOTES: To calculate station powers, the 1996 WRTVH Edition will be used as a reference.

The Organization can ask for recordings, QSL's or any other material in order to verify doubtful DXs logged through the Contest.

Further Information, registrations and fees to:
THE MEDITERRANEAN DX GROUP - "Contest"
c/o Jorge Garzon Gutierez
P.O.Box 4212
ES-41080-SEVILLA
SPAIN

Or e-mail to: <jgarzon@arrakis.es>
GRUPO DX MEDITERR=C1NEO - THE MEDITERRANEAN DX GROUP
The spanish DX Group devoted to Long & Medium Wave Bands
at/en: http://www.geocities.com/SiliconValley/4847/

o State of U.S. Publications

A recent post over the WUN Listserver seemed to indicate that Monitoring Times was in a dire situation. I contacted Larry Van Horn who laughed and said there have been all sorts of rumors out there. Larry pointed out that there had been a decline in MT subscriptions and that some writers for Monitoring Times are paid based on the number of subscriptions, so these rates will rise and fall. However, they continue to pay their writers on time, and there is absolutely no truth to any of the other rumors. Larry feels all this really came to a head based on the October 96 Monitoring Times 'Closing Comments' and that "some are reading something into it they shouldn't."

Likewise the rumor mill via some postings on a newsgroup had Popular Communications down and out. I contacted magazine editor Harold Ort, who has recently assumed that position. Harold stated that right now Pop'Comm is on "solid ground". He went on to say "course if I could predict the future I would be running a high-paid psychic hotline". This is true! But Harold pointed out the facts as he had them from the front office indicated that like MT, Pop'Comm subscriptions were down and that made for tight times as in any other business. But he stressed not to believe everything the rumor mill puts out. Both editors agreed that rumors do them no good and invited folks to contact them direct if they wish.

Like the notorious 'Good Times Virus' that becomes the virus as good natured folks send out the alarm of it's existence, rumors serve no purpose and should not be spread. If you planned on subscribing to either magazine but held off due to rumors, best quite delaying and get to it or you will miss the type of information these publications provide for no reason. I am a long time subscriber to both, and find useful information in both each month.

o Interesting Web Sites

Mike Hardester came across an interesting (non-intentional) DX-related web site: http://www.indo.com/distance/

Mike reports:
"This site will calculate distances between two points based on zip code, city/state name, or geographic coordinates. It will give the distance in miles or kilometers, the bearing to/from the two sites, and show you the two locations on a map. It indicates that it can also calculate distances to non-US sites, but I didn't try that."

"This may not be as accurate as using GCD calculations/computer programs, but for general information, it should be helpful to most DXers."

Thanks Mike!

That's all for this month. More neat stuff next month!

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Editor: Martin C. Barry <martin.barry@medspec.com>
6875 Fielding #02
Montreal (Quebec)
Canada H4V 1P3

STATION/VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

FIXED STATIONS

U.S. Corps of Engineers/WUK3	9122.5	USB	LTR	20 ds	full data, 2nd f/up	(JDS)
Madrid Radio/EAD3	8682.0	CW	QSL	19 ds	bklt, 5 f/ups in SS!	(JDS)
NAS Miramar, CA	15015.0	USB	LTR	14 ds	part data, 2nd f/up	(JDS)

MILITARY/COAST GUARD SHIPS

FGSMecklenburg-Vorpommern/DRAK	4154.5	USB	PFC	9 ds		(IB)
FGS Schleswig-Holstein/DRAI	4154.5	USB	PFC	37 ds	info	(IB)

CIVIL AIRCRAFT

Island Airways/P2-CBA	6622.0	USB	PFC	36 ds	plane foto + chart	(JSM)
Ptarmigan Airways/C-GMOC	5680.0	USB	PFC	15 ds	clr foto of plane	(JSM)
MBA Pty Ltd./P2-MBL	6622.0	USB	PFC	35 ds	De Havilland DHC-6	(JSM)
MBA Pty Ltd./P2-MBZ	6622.0	USB	PFC	35 ds	ltr from Chief Pilot	(JSM)
Territorial 701/C-GHPW	5680.0	USB	PFC	18 ds	Lockheed L-382G Herc	(JSM)
Air Niugini/P2-ANN	6622.0	USB	PFC	34 ds	De Havilland Dash 7	(JSM)
Air Niugini/P2-ANF	6622.0	USB	PFC	34 ds	Fokker F28 MK1000	(JSM)
Air Niugini/P2-ANE	6622.0	USB	PFC	34 ds	Fokker F28 MK1000	(JSM)
Solomon Airlines/VH-TJB	5643.0	USB	PFC	30 ds	foto of Boeing 737	(JSM)
Chipwind Aviation/N2AV	8864.0	USB	PFC	17 ds		(IB)
Black & Decker/N32AC	8864.0	USB	PFC	20 ds	ltr	(IB)
Amway Corp./N529AC	8864.0	USB	PFC	20 ds	foto	(IB)
Taunus Air TAQ-223/D-CGRC	11345.0	USB	PFC	12 ds	sticker	(IB)

MILITARY/GOVERNMENT AIRCRAFT

PR-00 Fleet Air Recon Squad 1	11175.0	USB	PFC	18 ds	full data, stkr	(RA)
Navy LY612 (16012)	8864.0	USB	PFC	23 ds	ltr	(IB)
53rd Wx Recon Sqdn/Teal-04	8864.0	USB	PFC	34 ds	2 patches	(IB)

MARITIME/NAVAL/COAST GUARD STATIONS

USCG Group Mayport, FL	2670.0	USB	LTR	16 ds	data ltr after f/up	(JDS)
USCG Group Cape Hatteras, NC	5320.0	USB	LTR	16 ds	no data, 2nd f/up	(JDS)
St. Lawrence C.G. Radio/VCP	2182.0	USB	QSL	103 ds	sked + info	(KMH)
Halifax C.G. Radio/VCS	2749.0	USB	QSL	165 ds	foto w/xmtrs+bldgs	(KMH)
USCG Baltimore, MD	5320.0	USB	LTR	18 ds	full data ltr	(JDS)
CCG Quebec City/VCC	2749.0	USB	LTR	20 ds	part data, 2nd f/up	(JDS)
USCG Air Air Sta Clearwater	5696.0	USB	LTR	41 ds	no data, 2nd f/up	(JDS)

MARS STATIONS

USMC Camp Pendleton/NNN0MPN	14459.0	USB	QSL	17	ds	foto, Forces Day 95(JDS)
USCGC Spencer/NNN0CSP	14441.5	USB	PFC	11	ds	full data (MR)
USCG Info Systems, VA/NNN0NCG	14441.5	USB	PFC	11	ds	full data + QSL (MR)
Shore Station, AR/NNN0KUR	14441.5	USB	PFC	15	ds	QSL + e-mail (MR)
Shore Station, FL/NNN0IGD	14441.5	USB	PFC	14	ds	full data (MR)
Shore Station, NE/NNN0FMN	14441.5	USB	PFC	15	ds	full data (MR)
USS Stephen W. Groves/NNN0CZO	14441.5	USB	PFC	28	ds	full data, decals (MR)
MARS Camp Pendleton/NNN0MPN	14441.5	USB	PFC	30	ds	full data, postcard(MR)
USCG Gallatin(WHEC721)/NNN0CXK	14441.5	USB	PFC	32	ds	(IB)
AF MARS Rockledge, FL/AFA2AG	13927.0	USB	PFC	8	ds	(IB)
AF MARS Shelbyville, IN/AFA1EN	13927.0	USB	PFC	22	ds	(IB)

# # #

*** THE LITTLE BLACK BOOK ***

The following addresses were received from Mike Rivkin:

USCGC Spencer/NNNOCSP
427 Commercial Street
Boston, MA
02109-1027

USCG Info Systems/NNN0NCG
7323 Telegraph Road
Alexandria, VA
22310-3999

NNN0KUR
c/o Charles Floyd
RT2 Box AA
Mountainsburg, AR
72946-9501

NNN0IGD
Lucille Gainer
7269 Coon Road N.
Ft. Meyers, FL
33917

NNN0FMN
Connie Bowen
16201 S. 75 St.
Omaha, NE
68128

AC/S Communications Information Systems
Attn MARS Station
Box 555018
Marine Corps Base
Camp Pendleton, CA
92055-5018

This address was received from J.D. Stephens for his QSL of USCG Activities, Baltimore, MD. He points out, however, that it differs from the one contained in Jim Pogue's "Coast Guard Radio" for the former "Group" Baltimore:

2401 Hawkins Point Road
Baltimore, MD
21226-1791

Rick Albright sent this one for the naval aircraft he QSL'd on the deck at NAS Whidbey Island:

Ops Officer

WUN-v02

VQ-1
NAS Whidbey Island, WA

The 1996 Navy SDL shows:
Naval Air Station Whidbey Island
1170 West Lexington St.
Oak Harbor, Wa 98278-5000

This would be good for any of the squadrons there and the zip code should help get it there quicker.

Steve McDonald furnishes these addresses for Australian and northern Canadian flights he's monitored and QSL'd:

Island Airways Pty Ltd.
Chief Pilot
PO Box 747
Madang
Papua New Guinea

Ptarmigan Airways Ltd.
Box 100
Yellowknife, NWT
Canada
X1A 2N1

MBA Pty Ltd.
P. Lipanovich, Chief Pilot
Jacksons Airport Port Moresby
PO Box 170
Boroko, NCD
Papua New Guinea

NWT Air
Larry Pinto, Dir Flight Ops
Postal Service 9000
Yellowknife, NWT
Canada
X1A 2R3

Air Niugini
Chief Pilot
PO Box 7186
Boroko, NCD
Papua New Guinea

Solomon Airlines
Tony Rogan, Flight Ops
Box 46
Brisbane Int'l Terminal
Eagle Farm QLD
Australia 4007

This one is from Ian Baxter:

Commanding Officer
USCGC Gallatin (WHEC-721)
P.O. Box 1500016
Charleston, SC
29415-5016

*** VERIFYING SIGNATURES ***

The following are verifying signatures (v/s) on QSL's received from individuals to whom reception reports sometimes can be specifically addressed:

USCG Group Mayport, FL: RM1 D.M. Wright,

	Telecommunications Specialist 1st Class
USCG Group Cape Hatteras, NC:	TC3 T.B. Wheat, Telecommunications Specialist
NNN0CSP:	TCCWC - Zulawsil
NNN0NCG:	LTJG David MARS Officer
NNN0KUR:	Charles Floyd
NNN0IGD:	Lucille Gainer
NNN0FMN:	Carolyn "Connie" Bowen
USCG Baltimore:	M.N. Richard, Telecommunications Specialist 3rd Class
VCC, Quebec:	Steve Cunningham, Marine Communications Traffic Services
WUK3, Corps of Engineers:	LtC. H.D. Albinus (N6YOT)
NAS Miramar:	T.J. Storer, Director Ground Electronics Division
USCG Clearwater:	TC1 Mark A. Roan
USCGC Gallatin:	Robert M. Petersen, LTC, USAFR

# # #

THE GRAPEVINE: This month, due to the high number of QSL's being received from MARS (Military Affiliate Radio System) stations, we'll be including them in their own log category rather than sticking them with other military designations... Some info passed on to us by J.D. STEPHENS: "'Recently Coast Guard Group Baltimore has merged with the Coast Guard Marine Safety Office to form Coast Guard Activities Baltimore which is our official name.' The letter also states that they conduct periodic 'drills' with all of the auxiliary units throughout the Chesapeake Bay area to conduct radio checks. I have heard this frequently on Thursdays around 2300 Z, working such auxiliary units as 'Carolina Beach Radio' and Mt. Pleasant Radio.' Something to watch for."... The QSL for the Orion that RICK ALBRIGHT snagged working Hickam Global on 11175 while sitting on the deck at Whidbey in Washington State came with a small Batman sticker representing aircraft type EP-3E. Rick adds that a brief note that accompanied it said that "Navy squadron had never before received a QSL request for aircraft radio traffic. Our fellow WUNers should be able to turn that around"... A few notes from IAN BAXTER: "FGS Mecklenburg-Vorpommern (DRAK) say they can not send any info on the vessel just yet, as the ship has not yet been commissioned... FGS Schleswig-Holstein is my 35th German Navy Ship verified... NNN0CXK USCGC Gallatin (WHEC-721) is my 131st MARS Afloat station verified... Verifying signer Robert M. Petersen LTC, USAFR, says the location of aircraft TEAL-04 was inside Hurricane Edouard at the time of my reception, and is stated clearly on my PFC"... Jean-Louis Querton, who did much of the translation for our cover letters, extends an invitation to anyone who'd like to visit his organization's web site: http://www.ebu.ch/ (European Broadcasting Union). That's the lowdown for this month. Got some info that's useful to QSL'ers, send it to The Grapevine c/o The QSL Report...

# # #

/// More Cover Letters for the Dedicated Ute ///

Good news and bad news this time 'round concerning our multilingual cover letter translation project. The good news is that we've so far received translated versions in nine different languages: French, German, Spanish, Portuguese, Polish, Czech, Serbo-Croatian, Turkish and Russian. For most of

this we have Jean-Louis Querton, who is employed with an international organization in Geneva and was able to call upon the skills of his colleagues, to thank. Jean-Louis and Alex Wellner both furnished versions in SS. The bad news is that previous translations that we've already published in French and German have been found 'wanting' somewhat. Jean-Louis, Klaus Betke and Ralf Radermacher have all found serious-enough shortcomings in the letters translated into their respective native-tongues. And so, for the sake of getting things right where we can, we are printing below corrected versions and textual revisions submitted by these 'linguistically conscientious' utes.

French:
Cher Monsieur,

Je suis un auditeur d'ondes courtes (SWL=Shortwave Listener) _____ [your town] _____ [geographical coordinations] en _____ [your Country]. Comme hobby, j'ecoute les bandes HF. Je suis egalement un radio-amateur licencie _____ [your call sign].

Le _____ [date] _____ [time] heures GMT, j'ai eu le plaisir de capter votre emission [identification of the transmitter] sur _____ [frequency] kHz en _____ [mode].

Je vous communique que la qualite de votre signal recu ici etait de _____ [SINPO]. L'equipement de reception est compose d'un recepteur _____ [brand and type], et d'une antenne _____ [antenna description, height, orientation...].

Je collectionne egalement les cartes QSL des stations que j'ecoute. Je serais tres honnore d'ajouter a ma collection une carte de votre station.

J'apprecierais, si vous avez le temps, que vous puissiez controler (QSL)= si cette reception est exacte.

Vous trouverez ci-joint, une carte pre-imprimee (PFC=Prepared Form Card) completee, et deja affranchie. Je vous remercie d'avance pour le temps que vous voulez bien me consacrer et vous adresse mes meilleures salutations.

_____ [your signature]

Klaus and Ralf both had specific comments to make about the previous translation. But on account of space limitations, we will content ourselves to simply reproduce each one's corrected version of the German letter. If there's anyone out there who keeps track of such things, you might let us know which of the two gets better response.

GG by Klaus:

Station Name
Station Address

Guten Tag!

Ich bin Kurzwellenhoerer aus _____<your location>.
Am _____<day/month>, 1996 um _____<time> Uhr UTC habe ich Ihre Sendung empfangen auf _____ khz <frequency> in _____ <mode>, mit der Identifizierung _____ <identification>.

Vielleicht interessiert es Sie, dass Ihr Signal hier laut und klar empfangen wurde. Ich benutze einen Empfaenger des Typs _____ <type of radio> und eine _____ meter lange Drahtantenne <length of antenna*> in _____ meter Hoehe (height*).

Als Teil meines Hobbys sammle ich Bestaetigungskarten von Stationen wie der Ihren. Sehr gerne wuerde ich Ihre Karte meiner Sammlung hinzufuegen.

Bitte bestaetigen Sie diesen Empfang, wenn er richtig ist. Als Anlage schicke ich Ihnen eine schon-ausgefuellte Karte (PFC), einen

selbst-addressierten Briefumschlag <self-addressed envelope>, und _____<number> Briefmarken <stamps>/____<number> Antwortscheine <IRCs>/_____ US-Dollar <dollars>.

Ich danke Ihnen herzlich fuer Ihre Hilfe, zumal Sie sicher wichtigere Dinge zu tun haben. Bitte entschuldigen Sie auch die Fehler in diesem Brief; leider kann ich kein Deutsch muss deswegen diesen vorformulierten Brief benutzen.

Mit freundlichen Gruessen

<your name>

For the PFC, use the following translations:
CALLSIGN = RUFZEICHEN
STATION = SENDER
QTH = STANDORT
TRANSMITTER/POWER = SENDERTYP/LEISTUNG
ANTENNA = ANTENNE
LOCATION = STANDORT

For the verification part, use: BESTAETIGUNG DURCH: (NAME UND STEMPEL) which means verified by: (name and stamp)

GG by Ralf:

Station Name
z.Hd.: Abteilung Oeffentlichkeitsarbeit
Station Address 1
Station Address 2

Sehr geehrte Damen und Herren,

Als Kurzwellenhoerer aus _____(your location) freue ich mich, Ihnen den folgenden Empfangsbericht senden zu koennen.

Am _____(day/month), 1996, um _____(time) Uhr UTC, empfing ich Ihre Sendung auf _____ kHz (frequency) in _____ (mode), mit der Identifizierung _____ (identification).
Vielleicht interessiert es Sie, dass Ihr Signal hier gut und klar empfangen wurde. Als Empfaenger benutze ich einen _____ (type of radio) mit einer _____ Meter langen Antenne (length of antenna*) in einer Hoehe von ___ Meter (height*).

Als Teil meiner Liebhaberei sammle ich Bestaetigungskarten von Stationen wie Ihrer. Ihre Karte wuerde ich meiner Sammlung gern hinzufgen. Bitte bestaetigen Sie meinen Empfangsbericht, wenn die Angaben richtig sind. Ich schicke als Anlage eine schon ausgefuellte Karte (PFC), einen bereits adressierten Rueckumschlag (Self-addressed envelope), und _____(number) Briefmarken (stamps)/____(number) internationals Antwortscheine (irc's)/ _____ Dollar (dollars).

Ich danke Ihnen herzlich fuer Ihre Hilfe, selbst wenn Sie wohl viel wichtigere Arbeit erledigen muessen. Bitte entschuldigen Sie die Fehler in diesem Brief, weil ich kein Deutsch kann und daher diesen Formularbrief benutzen muss.

Mit freundlichen Gruessen,

(your name)

Notes:
1. If the author of the letter is a female, change the opening line to: als Kurzwellenhoererin aus _____. No other changes are necessary.
2. * Length and height should be expressed in meters. The simplest thing is to divide feet by 3 and round up to the nearest whole number. That should be close enough.
3. The last paragraph says: "I thank you for your help, even though you

have much more important work to take care of. Please also excuse the mistakes
in this letter as I can't speak German and must use a form letter." (Hopefully
this will elicit a response in English, rather than in German.)
4. In the 4th paragraph, just select what you are enclosing (if anything).

For the PFC, use the following translations:
CALLSIGN = RUFZEICHEN
STATION = STATION
QTH = STANDORT
TRANSMITTER/POWER = SENDERTYP/LEISTUNG
ANTENNA = ANTENNENTYP
LOCATION = STANDORT

For the verification part, use: BESTAETIGT DURCH: (NAME UND STEMPEL)
which means verified by: (name and stamp)

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Thanks to this month's contributors:
(JDS) J.D. Stephens, USA
(MR) Mike Rivkin, USA
(KMH) K.M. Haywood, England
(RA) Rick Albright, USA
(JSM) Steve McDonald, Canada
(IB) Ian Baxter, England

Special thanks this month to Ralf Radermacher, Klaus Betke and Jean-Louis Querton for their efforts at translating and revising cover letters. Thanks also to Alex Wellner whose SS translation and spelling advice will be featured next month.

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Saludos Amigos! Welcome to yet another edition of the Utility Round-up. What's on the menu this month? Uhh, let's see.... yeah I know, it has nothing to do with utility, but you have to check this out just for fun. The Mutual UFO Network 'MUFON' has a radio net on 7237 kHz SSB transmitting on Saturday morning 07-08 AM Central time (13-14 UTC). Then there is the first part of the 'Police on HF' series, an item about feeders and..... well, how about this one.... a couple of weeks ago, the BBC was forced to abandon 15070 kHz. Reason for this is the complaint that the Danish National Telecom Agency filed. It all started after Danish Telecom refused to allow EDXC-95 the use of a frequency that was outside the broadcasting band; the station tried to persuade DT by telling them that many BC stations are using ute freqs. DT then took the case to the international frequency-coordination conference in Bulgary. The direct result of this is that no BC station from a CEPT country will be allowed to use freqs outside the BC-bands. 15070 is in the aero band and BBC must therefore abandon this frequency before 27-10. The frequency has been used for BC transmissions for more than 40 years! <source: Guido Schotmans in the DX-Antwerp conference>

Hey, stop! What's that sound?

This active 'sweeper' is daily heard here in Western Europe. It covers 8 freqs and has the following characteristics:
Except for 7680 kHz, the start on each freq is marked by a switch-on-pip at second 1, then 1 sec interval, 27 secs sweeping signal, 1 sec interval, then start on a new freq. Total time per freq is 30 secs. After the last freq there is a 6 secs interval, so the total cycle time is 4 mins 6 secs. This is an example of two cycles that I logged a couple of weeks ago:

Freq.	hh.mm.ss	hh.mm.ss	hh.mm.ss

```
 7680 16.32.00  16.36.06  16.40.12
 7690 16.32.30  16.36.36  etc  etc
 7700 16.33.00  16.37.06
 9185 16.33.30  16.37.36
 9310 16.34.00  16.38.06
 9332 16.34.30  16.38.36
10120 16.35.00  16.39.06
13430 16.35.30  16.39.36
```

I am very interested in your comments. Who and what is this baby???

Another unid

During the past weeks I copied lots of CW transmissions on 5329 kHz. My guess is that it is an Eastern European military station. Who has more info on the subject? This is how it looks like; there was no id and all the messages had the same structure namely:

BT nr69 S 26 10:07:18 1996 BT + 5L groups

which translates as: BT= start, nr69= msg nr, S=???, 26= day (26 sept.), 10:07:18= central European time.

Ye unbelievers....

For all those who still do not believe that (some) channel markers are directly connected to the Russian navy... here is more proof. This is not a hoax but an actual log!
3837 kHz, 26-9-1996, 20.00 UTC. Channel marker 'P' for 5 minutes, followed by callsign 'RMP' and weather for the Baltic area. Then 'P' again for ca. 2 minutes and s/off. RMP is the callsign of the Russian navy in Kaliningrad. All traffic was in CW.

Numbers and intelligence round-up
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o The US Army operates three Sikorksy EH-60 ELINT intercept helicopters in Bosnia. They can locate and monitor AM, FM, CW and SSB radio emissions from upper-HF to mid-VHF ranges over bandwidths of 8, 30 or 50 kHz.

o MOI Prague aka Czech Intelligence, c/s OLX currently uses the following freqs: 5301, 8142, 9320, 11416, 14977 and 18303 kHz. The callup starts at h+55 min in CW 'VVV DE OLX' followed by an id nr and the group count at the hour, then into 5N groups read by a woman in Czech or transmitted in CW.

o French military intelligence 'Direction du Renseignement Militaire' (DRM) recently admitted that it has lost several crypted radio sets in Bosnia.

o A morse station, nicknamed '98' can be heard on 2379, 3153, 3156, 4439, 4442, 5171 and 5196 kHz. The station transmits irregularly and can be recognized to its typical transmissions. They mostly start with '98' but other numbers were also copied, most of them in the 90's. Here an example of 3 messages that I copied on parallel freqs 2379//3151 kHz.
98 12744 13111 11111 98 07802 13111 11111 98 04742 11111 11111

o Germany - According to a report of the Bundesamt fuer Verfassungsschutz (Federal Office for the Protection of the Constitution) Russia has been spreading its intelligence operations in Germany. Encoded radio communications between Moscow and its spies in Germany have intensified. German counter-intelligence agents have uncovered some dead drop sites with classified materials. Primary targets of the Russian spies are high-tech communication technology and computers. The GRU is active in monitoring locations of the NATO military units in Germany. <source: Izvestia Moscow>

o Takashi Kuroda reports that an unid numbers station is broadcasting on the same frequency as Radio Pyongyang from 15:00 UTC on 6520 kHz. He sez that it is a well known fact that they are sending messages to agents in Japan and South Korea. In the past North Korean agents were arrested by

Japanese public security police or Korean public security police and they were usually equipped with Japanese made shortwave receivers such as Sony portables and a code manual for decoding the numbers. The language used is Korean. The transmissions are in AM.
Thanks, Takashi. I think that it is safe to presume that the North Korean intelligence agency is using the facilities of Radio Pyongyang.

o Russia - In April the Federalnaia Sluzhba Besopasnosti (Federal Security Service) arrested an (alleged?) MI6 agent while communicating with MI6 in London by SW radio.

o Charlie Crawford (ccrawford@hcc-uky.campus.mci.net) checks in with some weird stuff. He sez: ''Strange goings on on 4572U tonight 10/6/1996. I listened from 0409 to 0420utc. American accented woman with reading of single syllable English words at a slow measured pace, then at 0413 a rapid pulsed tone came on and I could still hear her but no longer understand her reading. At 0416 with the tone still going a man started reading single syllable English words. It was still going on at 0420 when I gave up. I checked again at 0513, and it is still going at 0548. At 0513 (with no pulsed tone now) the man was just talking about random thoughts in a casual tone. Then at 0515 he went into the single syllable English words again. Occasionally he would pause then start up again. At 0521 the woman started reading the words. At 0526 the pulsed tone came back and I could hear her in the background. At 0529 the man was doing the same random thoughts as earlier, with the tone still going on. At 0533 he went into the single syllable words again. At 0539 the woman started reading the words. I just checked at 0554 and the tone was gone and the man reading the words again. This didn't sound like any numbers station I had heard before. Sounds like strange tests. The single syllable words sure would not work well for coding since they are hard to understand, unlike the phonetic alphabet or numbers. Any thoughts on this?''

Algerian navy

An Algerian Navy out-of-area net has been copied on 9115.7 currently serving a pair of vessels off on a summer training cruise in the Mediterranean or Black Sea area. Their normal daytime in-area operations are in the 5 MHz (5324, 539x, etc) band. Only Nanuchka PGG, Osa PTG and Koni FFLs use the net. Fax is also used. Shore sites are obviously the three major bases and some minor facilities. Lousy CW is still the primary mode for these guys. <source: Mike Chace>

Feeders... the utility side of broadcasting

I recently received an e-mail from a new ute dxer who asked me what he had heard. It couldn't be a broadcasting station because a broadcasting station transmits in AM, right? So, what was this? A relay via a coastal station? What else could it be! What else? Well, uhh... a feeder perhaps? The fact that feeders are using SSB, confuses new ute dxers sometimes. Especially for them I compiled a list of feeder freqs and regular USB/LSB broadcasters that were active during the past year. Because of season influences, some freqs may have changed in the mean time. Additions or corrections are most welcome.

o What is a feeder?
Feeder stations are being used to transmit programs to a distant transmitter side for later broadcast. Although many of them have disappeared in favor of satellite feeds, there are still a couple feeders on the air. Feeders transmit in USB and LSB mode. In some cases transmissions are in ISB mode, where both sidebands are carrying another broadcast.

o Voice of Russia / Radio Moscow

3384	5044	5064	5296	5775	5815
6805	6822.5	6825	6875	6890	6987.5
7410	7450	7490	7970	8005	8040
9125	9148	9188	9210	10235	10300
10330	10344	10670	10740	10780	10855
11020	11575	12050	12160	12175	13375

13735	13760	13820	13960	14410	14460
14820	14950	16020	16190	16300	16330
16340	18195	18285	18730	18870	19311
20850					

o Voice of America

5275	6873	7651	7768	10235	10454
13491.5	14526	15752	18275	19261.5	19379

o BSKSA Saudia Arabia

3868	9555	9870	10402	10476	10936
10990	11092	13460	13525	15575	18755.8

o Deutsche Welle
11030 kHz, 18 MHz USB, unconfirmed backup for satellite feed.

o Radio Kiribati
14802 kHz USB, feed to Christmas Island. Hasn't been logged lately. Is said to be on the air irregularly.

o North Korea
Radio Pyongyang reportedly uses a feeder on 6397.8 kHz

o Argentina
8100, 9115, 11055, 15780 kHz LSB, feed to the Antarctic. The freqs are being used by various stations, amongst them Radio Rivadavia, Radio Mitre Radio, Provincia de Buenos Aires La Plata (weekends only).

o The following broadcasting stations are using USB for their regular transmissions. These are not feeder stations, and are not ute's.
HCJB Voice of the Andes, 21455 kHz USB
Rikisutvarpid Iceland, 7870, 11402, 13860, 15770, 15775 kHz USB
Australian Defense Forces Radio, 13525 kHz USB. Broadcasts to Australian troops on overseas duty. Not active at the moment.
Radio St. Helena transmits only one day in every two years. This year the event will take place on October 27, 1900-2300 UTC on 11092,5 kHz USB. Info about Radio St. Helena and the island can be found on at: http://www.sthelena.se
Costa Rica: Radio for Peace International broadcasts in USB on 6205, 9400, 15050 and 17905 kHz
Somalia: Radio Mogadishu (ex Voice of the Masses) is said to be using 6980 kHz USB.

Sources: Voice of America, Cumbre DX, Robert Joosten, Marc Vissers, Guido Schotmans, Lennart Deimert, Elena Frolovskaya (Voice of Russia), WRTH and my own good old radio :-)

Police on HF, pt 1

The time that Interpol was a daily guest on shortwave is already some time behind us. Only a few active stations are reported nowadays. Combined police forces in the Caribbean and the Mexican police are still using HF as do the Guardia Civil in Spain, the Portuguese police, the French Gendarmerie and the German MOI/Police combination. This is the first part of 'Police on HF'; any additional info is most welcome. Your info will be treated confidentially if you don't want to be credited, just let me know.

o Guardia Civil, Portuguese and German police.
Please read my columns in last year's newsletters for articles about the Guardia Civil (July), the Portuguese police (May) and the German MOI/GSP stations (April and June).

o Caribbean emergency network: mode USB, freq. 7850 kHz
This disaster preparedness net includes Red Cross stations as well as HAM and defense stations, coast guard and meteo stations. Most of them are only on the air when there is a disaster on hand (hurricane season). The police forces of Dominica, Monserrat, Antigua, Barbados, St.Vincent, St.Kitts & Nevis, Grenada, St.Lucia, Anguilla, Guyana, Trinidad & Tobago,

Tortola, all participating in this network, are also using this net for police traffic.

o Venezuela: mode LSB, 8130 kHz

o Mexico: mode USB, 7790 kHz. The following stations were identified: Veracruz, Ensenada, Mexicali, Tiajuana, Victoria, Monterrey, Campeche, La Paz, Taluca, Meriva, Acapulco, Villahermosa

o Argentina: mode USB, 12120 kHz, Policia Federal Buenos Aires

o Saudi Arabia: mode FEC 125bd, Saudi National Guard.
7869.5, 11109.5, 11114.5, 12257.5, 12357.5, 12267.5, 12362.5 kHz

o Zaire: mode USB, 11152 kHz

o Bosnia-Hercegovina
Bihac: 4871.7 kHz, mode Clover
Turkish police: 11201.7, 10801.7 kHz, mode Sitor-A

o New Zealand: mode USB, 2828, 4469, 4928 kHz
Maritime police 2182, 2129, 4125, 4417 kHz + SAR freqs 3023 and 5680 kHz

o Tuvalu: mode USB, 7691 kHz, Funafuti

o Interpol.
The International Criminal Police Organization (ICPO), Interpol, is an organization composed of 176 member countries with headquarters in Lyons, France. Interpol operates under a constitution which states its aims as:
a) To ensure and promote the widest possible mutual assistance between all criminal police authorities within the limits of the laws existing in the different countries and in the spirit of the "Universal Declaration of Human Rights";
b) To establish and develop all institutions likely to contribute effectively to the prevention and suppression of ordinary law crimes. By its constitution Interpol is forbidden to undertake any intervention or activities of a political, military, religious, or racial character. In each member country, a police service has been specially designated by the government to coordinate and respond to enquiries received from local and foreign law enforcement agencies.

Frequencies
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modes: Sitor-A, CW
Zurich : 3309, 3314, 3332, 4632, 5262, 6871, 6881, 6884, 9185, 9194
Ankara, Buenos Aires : 15738
Tokyo : 19130, 14707, 14817.5, 18755.8
Kuala Lumpur, Bangkok, Colombo, Islamabad, Jakarta, New Delhi : 18755.8

Note: most of the traffic has moved to satellite. Tokyo is still active though. Zurich only transmits its callsign in CW. Several test transmissions from the Asian stations have been noted during the past few years. Ankara and Buenoas Aires were logged only once or twice since January 1995. The Portuguese police also transmits Interpol messages. These messages are integrated in their regular traffic.

o The Royal Canadian Mounted Police.
The RCMP is Canada's national police service, providing law enforcement services in detachments across the country. The Drug Enforcement Program is only one of a number of other federal policing duties carried out by the RCMP. The National Central Bureau (Interpol Canada) is also located at RCMP HQ. It forwards all enquiries received from Canadian law enforcement agencies to the relevant foreign Interpol branches.

The Force is divided into 13 divisions. Each division is managed by a Commanding Officer. Divisions roughly approximate provincial boundaries with their headquarters located in respective provincial or territorial capitals (except Ottawa, Montreal and Vancouver). Divisions have 52 sub-

divisions and 707 detachments which range in strength from 1 to over 250 personnel. Air and Marine Services supply support to the divisions. The RCMP "Depot" Division training centre is located in Regina, Saskatchewan, and the Canadian Police College is located in Ottawa, Ontario.

Frequencies (modes: encrypted RTTY and USB)

2788.0	4765.0	4776.5	4785.0	4798.5
4812.5	5445.0	6792.0	7780.0	9200.0
10390.0	14620.0	14817.5	19130.0	21785.0
21807.5	24110.0 kHz			

Sources: Special Frequenzliste, WUN's logfiles, Monitoring Times, FBI and RCMP home pages, Grove's Shortwave Directory, Mohammad Sultan, Dirk v.d. Wal via DX-Antwerp and the rest of the gang... you know who you are :-)

Alex Wellner (alexw@zeta.org.au) has a mystery he would like to share:

ANARCHY ON THE BANDS or Who are these people anyway! by Alex Wellner
---

I am an Ute listener since 1963.My specialty is the really unusual point-to-point transmissions,of which there are plenty. I got a very large list of mostly phone conversations which are cropping up just about anywhere these days. These phone nets are roughly three groups.The Pacific islands which can be Fiji, Samoa, Vanuatu or Papua New Guinea. Asian countries,including China, Japan,Korea or any other nations in that region.Lastly,most of these phone conversations come from the Philippines.They can be recognized by the first party calling a 2 letter callsign,usually Papa Delta,although many other letter combinations are monitored.Once the other party answers,there is exchange of traffic,which can be a simple phone conversation,but more often there is a list of orders or business communications.It is usually in accented English.Every word is pronounced,then spelled phonetically,making the conversations very long.

Up till a few months ago these phone nets were evident largely on the 7 and 10 meter band,but now they invaded the 5, 6, and 8 meg Maritime and Aero bands as well.They can blatantly sit on a Military frequency like 5700,or scatter in the marine,CW or RTTY bands as well. I don't know how they got their transmitters calibrated,but they have a total disregard of the band allocation.The worst example I came across was just yesterday when I picked up a Pacific Island phone net on 5642.5 just 1/2 KHZ away from the busy 5643 carrying all the Pacific Aero traffic.The interference was horrible.Lucky most of these transmitters are low powered. For your information I submit all the frequencies I monitored during the month of September on the 8 meg band:

8101	Aussie fishing on the military band
8125	Unid Filipino phone net in marine band
8250	Unid Asian phone net 1KHZ away from marine ch 811
8335	Unid Filipino phone net. Listed as German Navy frequency.
8355.6	Unid Pacific Island phone net, in data band.
8455	Pacific Island phone net in CW band.(Voice)
8463	Pacific Island phone net in RTTY band (Voice)
8490	Unid Asian phone net in CW band (Voice)
8495.3	Possibly Malaysian phone in CW band.(Voice)
8518	Pacific Island phone net in CW band (Voice)
8525	Filipino phone net in CW band (Voice)
8560	Filipino phone net in CW band (Voice)
8566.7	Pacific Island phone net in CW band (Voice)
8650	Filipino phone net in CW band (Voice)
8762	Pacific Island phone net 1KHZ away from ch 815 in marine band
8826	Pacific Island phone net in Aero band
8905	Unid Asian phone net in Aero band
8915	Unid Asian phone net in Aero band
8935	Unid Asian phone net in Aero band
8938.7	Unid Asian phone net in Aero band
8975	Pacific Island phone net in Military band
8977	Unid Filipino phone net in Military band

I have many more of these in the 9 meg Military band as well. If anyone could give me more information on these nets,I would be really grateful.

Interesting stuff, thanks Alex! Who can comment?

That's all for now folks. I hope you liked it. Thanks for sending your findings. Keep it coming! See you next month. Bye for now, -Ary-

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The WUN Logs Column

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Effective next month Dave Wright (dcwright@webstar.net) takes over as editor of this column. I will remain as a helper in Team Logs doing the snail mail logs for Dave. So those of you who have sent your logs by mail can just continue to do so. Also those of you who are anonymous may also continue to send them to me if you wish by e-mail. I appreciate all those who have supported this column the last two years, but I find the editing of well over 1/4 meg's worth of raw files monthly, along with my other WUN duties, is taking it's toll. There are other major WUN projects in the works and this frees up a lot of time for me to do these projects. I hope you all continue to support Dave, as I believe a monthly uniformly organized listing of logs is a real information source. I appreciate Dave taking on this major job!

Major headaches this month in that Roland's hard drive crashed and he lost the whole months worth of posted logs with last names A thru J. We tried to recover as many as we could, but it was very time consuming (that's why the newsletter is late). Sorry if we missed anyone. Last month, I accidently deleted a zip file sent by Andy Brill...just before he left the country for 5 weeks! That meant some logs posted by those with last names K thru Z were lost. I'm sorry some of the logs were lost. I know one person was 'very' angry with me his logs were lost. I can only say that considering the immense amount of time and team effort that is needed to bring together data of this size, I think we do pretty well. If you want guaranteed that your logs will be in the newsletter, send them direct to Stan Scalsky (he does e-mail logs) in or close to WUN format, and this decreases the chance of them being lost.

Each of you can help a lot if you post your logs in WUN format or closer than some of you do. It seems a few try to scatter the data as far apart as possible -hi! But the end result is that a member of Team Logs may spend 2 hours editing just ONE persons posted logs for the month. Any help along these lines is really appreciated!

Despite all this, I am encouraging each and every one of you to make an "anniversary" log for WUN's third anniversary newsletter in the January, 1997 issue. It need not be 100 logs, but a sample of what can be heard from each members country. I would like to illustrate the worldwide nature of WUN in this manner. If you do not wish a name used, just let us know. The deadline for the Third Anniversary Logs Column will be Jan. 10, 1997. So please plan on this and snag a few logs. I think our (then a record) turn out last year was 75 contributors from 14 countries. I'm sure we can beat that record easily as we have 76 contributors alone just for this issue! Take a few minutes and make a few logs for this special issue.

If you like figures, we had 109k in edited logs for the digital section; 90k for military; 35k for civil aero; 34k for maritime; and 19k for the miscellaneous section this month.

=CIVIL AERO=

2872 Shanwick: 2058 w/UNID (Thunder 119??) s/c AE-JS (ANDL) Pakistan 724 0518 USB selcal BC-EP wkg Gander/ARP 55N50W F350 A310 AP-BEU. (TO)

5315 INDIA-4408 1646 USB calling Aktio (LGPZ). No joy. Who told them that Aktio is monitoring 5313? The only frequency listed in the supplement is 5637. Naturally, they didn't get any answers to their calls. (CK)

5493 Mozambique 707 0346 USB wkg Kinshasa/ARP TENKA 46 F370 ONRAK 0405 QSY Lubumbashi VHF. Speedbird 055 0409 USB wkg Kinshasa/ARP UPARA 09 F330 PISPA 0426. Virgin 601 0418 USB wkg Kinshasa/ARP UPARA F370. (TO)
5535 Speedbird 224 2347 USB wkg Speedbird R. LDOC/IAH-LGW departed 2131/50 ETA LGW 0505 136 + 2 pax. Speedbird 052 0031 USB selcal BD-AJ wkg Speedbird LDOC/pp to Maintrol-re engine problem, loud noise but no sparks/flame. Maint advises do not shut down just a surge caused by carbon dislodging from engine. ETA wkg LGW a bit behind sked @ 0540 enrt HRE-LGW. Caledonian 008 0059 USB selcal BD-GH wkg Speedbird LDOC/dep. Cairo 0030/44 ETA Mombasa 0520/25 379 pax. Saudia 7273 0440 USB selcal EF-CJ wkg LHR LDOC/ARP LORNO 30 ETA GVA 0640 F350. Saudia 103 0446 USB wkg LHR LDOC/ARP o/h GEN 0443 LHR ETA 0605. (TO)
5541 BCS361 1840 USB Stockholm/dep.BRU 1805/27 eta MAD 2019 fuel 50.0 cargo 49506kgs sel/FGBK N2674U DC8 copy to EWW. (RD3)
5547 Fedex 18 0427 USB wkg HNL/ARP 41N140W F370 40N130W next. Eva 11 0143 USB wkg SFO/ARP est 39N140W 0217 F310. Eva 27 0207 USB selcal JR-FM wkg SFO/Selcal check 747-400 SFO-TPE. (TO)
5553 Varig 724 0548 USB wkg Varig LDOC Belem/0500 and actual GRU wx. Varig 761 0556 USB wkg Varig LDOC Belem/o/h FLZ 0559. Varig 866 0410 USB wkg Belem Varig LDOC/ARP VAGAN 0403 F350 ETA GRU 0920 and GRU actual wx. (TO)
5557 Nikoalevsk 0850 USB lot of traffic in Russian. (AW)
5565 Recife UTC? USB clg FAC0001. No contact. LanChile 171 USB w/weak pos. reprot to Recife. SAA209 USB wkg Johannesburg/ARP FL330 to 350 FIR/0437. To 5519 Luanda. AFR241 USB wkg Recife/ARP FL330 NANIK. KLM792: SELCAL DMAJ(?) USB wkg Recife/ARP FL330 olma/0439. DLH526 USB wkg Recife/ARP Frankfurt to Buenos Aires. Will call at NANIK. EVBOT/0341 pontalesa/0422. VRG727 USB Calling Dakar. QSY to 6535 (ordered by Recife). IBE6841: SELCAL AHLM USB wkg Recife/ARP NANIK/0303 EVBOT/0342 FL310. BAW59 USB wkg Johannesburg/ARP FL370 27N.12S FIR/0440 Robben Island/0448. To 125.1 CapeTown (now in contact with(04.15)!). GHA151 USB wkg Dakar. Controller req. QSY to 6535. BAW267: SELCAL BPAJ USB wkg Recife/ARP FL350 ONTER REPUR/0407 MSS/next. BAW245: SELCAL BPAK USB wkg Recife/ARP maugany/0339 rakut/0419 fulda/0447 NOR/next. SAA204 USB wkg Recife/ARP FIR/0342 FL330 pontalesa/0418 MSS/0430 Recife/0457. IBE6811: SELCAL EJGL wkg Recife/ARP Rakut/0412 olda/0430. AFR240: SELCAL AQPS wkg Recife/ARP NANIK/0412 EVBOT/0454 FLZ/n. (HW) Lufthansa 526 0333 USB selcal AL-EH wkg Recife/ARP NANIK 22 F350 EVBOT-FLZ. Springbok 281 0348 USB wkg Johannesburg/ARP MUDAP 49 F390 QSY Durban CTR 129.9 at FIR boundary. Varig 829 0348 USB wkg JNB/ARP F310 est 05W 0422 req F350. Polar Tiger 5105 0519 USB wkg Clg Recife here no joy. Iberia 6821 0409 USB selcal DK-AR wkg Recife/ARP RAKUD F350 POLDA 0435 NOR. Swissair 144 0412 USB selcal AG-HQ wkg Recife/ARP est KODOS 0424 and selcal. Iberia 6893 0421 USB selcal AH-LM wkg Recife/ARP RAKUD 0418 F310. Varig 829 0427 USB wkg JNB Oceanic/leaving F310 climbing F350. Springbok 207 0428 USB wkg JNB R./ARP MORSI 0423 F370 MUNES 0514. Argentina 1131 0429 USB wkg Recife/ARP ONTER F310 REPUR Mocoro. Varig 727 0430 USB wkg Recife/ARP NANIK 28 F310 req F350. Varig 829 0433 USB wkg JNB R./ETA SBGR 1018 est PORGI 0545. Speedbird 245 0436 USB selcal BP-CE wkg Recife/ARP ONTER 34 F350 REPUR 0516. Alitalia 680 0442 USB selcal FK-DE wkg Recife/ARP KODOS 38 F350 advising new destination Rio de Janeiro. Air France 240 0444 USB selcal HL-FJ wkg Recife/ARP NANIK 38 F350 EVBOT 0520. (TO)
5574 Delta 1152 0407 USB wkg SFO/ARP EDSEL 0406 F340 ELKEY. TORA 99 0429 USB wkg SFO/ARP BAKON F350 BEATS 0458 BRADR. Pacific 811 0150 USB wkg SFO/pls QSY HNL @ 140W on 8867/13261. REACH 0011 0153 USB wkg SFO/ARP est BAKON 0244 F310. Hawaiian 12 0155 USB selcal EJ-FM wkg SFO/ARP COPPI 54 F360 CREEN? 0247 CLUKK. Delta 1562 0212 USB wkg SFO/ARP ESCRO F320 EDSEL 0304 ELKEY. Continental 70 0214 USB wkg SFO/ARP COPPI F340 CREEN? 0308 CLUKK. TWA 1 0215 USB wkg SFO/ARP DOPPS 15 F350 DEROK 0334 DANKA. United 195 0217 USB wkg SFO/ARP DEZZI 13 F350 DUETS req F350. American 28 0222 USB wkg SFO/ARP COPPI 0222 F360 DC10 HNL-SFO. United 126 0225 USB selcal DE-AH wkg SFO/ARP ESCRO 24 F360 enroute OGG-LAX. Hawaiian 9 0231 USB selcal GK-FM wkg SFO/ARP DOPPS F350 DEROK 0348 DANKA. Continental 76 0241 USB wkg SFO/ARP F340 posn unreadable. Delta 157 0304 USB selcal EM-DK wkg SFO/ARP DUETS F310 DOPPS 0404 DIALO. (TO)

5598 N930O 030O USB Shanwick/ARP 45N/30W 0257 F410 47N20W 0352 48N15W selcal/AEQR (G4). TORCH 05 1812 USB Shanwick/ARP 4630N10W 1811 F200 45N15W 1916 (later cleared F220). N49UR 1956 Santa Maria/INDIA 1955 F330 38N30W 2010 41N40W sel/KREH (CL61). N523AC 2028 USB Santa Maria/44N40W 2027 F370 FLO 2131 sel/HPDE (RD3) BACKY 91 0359 USB wkg NY/ARP 42N50W F290 42N40W-Flores. Speedbird 232 0403 USB selcal DH-CL wkg Gander/ARP 47N40W F350. N150JT 0418 USB wkg SM/ARP INDIA F330 QSY 2962/6628. Lufthansa 8256 0511 USB selcal EK-JM wkg Shanwick/ARP ETIKI F310 48N20W relay to Atlas Air Ops. BLUE 84 0430 USB wkg NY/ARP 47N40W F330 45N30W-43N20W. Lufthansa 404 2047 USB selcal LM-HS wkg NY/Selcal check A340 D-AIGF. REACH ODQ1 0112 USB wkg Gander/ARP 51N50W F330 ETA ETAR 0546. Iberia 6170 0113 USB selcal HL-BD wkg NY/Selcal chk 747 EC-GAG. Air Canada 856 0139 USB selcal DP-KQ wkg Gander/Selcal check 747-400 C-GAGM. United 920 0140 USB selcal AQ-BG wkg Gander/Selcal chk 777 N777UA. Delta 32 0142 USB selcal CD-ES wkg NY/Selcal chk 767-300ER N184DN. TWA 900 0333 USB selcal AF-CG wkg NY/Selcal check. Canadian 54 0334 USB selcal DL-FG wkg Shanwick/ARP 54N40W F310. (TO)
5616 Pack 99 1117 USB wkg Shanwick W/posn, outbound Leuchars routing 56N10W 1114, est 58N20W 1157, 59N30W next, NAT-D, FL 350 M.80. Quid 71 0841 USB Shanwick posn, 50N15W 09:34 FL270 M.80. (ANUK) Gander Radio 0256 USB clg TWA926 tried till at least 0307z with selcal (MS6) Gander Radio: 0256 USB clg TWA926 tried till at least 0307 w/selcal. (MWS) EWW174 1840 USB Shanwick/49N30W 1836 F290 51N20W 1907 51N15W M.80 Fuel 54.1 eta Destination 2115,To call 2899. N33M 0640 USB Gander/ARP PORGY 0638 F410 57N50W 0705 57N40W sel/HKCP (G4). N701QS 1108 USB Shanwick/ARP 52N20W 1107 F430 53N30W 1203 52N40W. N157H 1714 USB Shanwick/ARP 56N30W 1713 F410 55N20W 1755 54N15W sel/KRBP. N600LC 1754 USB Shanwick/ARP 56N30W 1753 F410 57N20W 1836 55N10W (relayed by AMT8721 & KLM978). ELVIS91 1512 USB Shanwick/ARP 55N10W 1511 F350 54N20W 1602 52N30W. FRD330 1530 USB Shanwick/ARP 55M30W 1528 F370 54N20W 1607 54N15W (RD3) Fedex 3 2225 USB selcal GP-FL wkg Gander/ARP 48N30W F310. Emery 173 2226 USB wkg Gander/ARP 48N40W F310. C-GHKY 2228 USB wkg Gander/radio check on the ramp at YQX will be dep. Gander in two hours. Fedex 1 2231 USB selcal KM-BR wkg Gander/ARP 60N30W F310. Fedex 5 2232 USB selcal AB-ER wkg Shanwick/selcal check MD11F N608FE. N159M 2234 USB selcal HS-EG wkg Shanwick/selcal check. Reach 30557 2236 USB wkg Gander/ARP 56N30W F330 55N20W-55N15W. N522AC 2312 USB selcal JS-KQ wkg Gander/ARP 64N50W F350 64N60W-YVP. USAir 16 0058 USB selcal BF-JP wkg Gander/Selcal check 767 N651US. (TO)
5643 VH-CCC 1246 USB w/Tahiti @"RAXER"(21-19S/157-00W) FL410-450(JSM)
5649 Speedbird Concorde-3 2249 USB Wkg Gander. FL510. SELCAL- BD-CM. (IB) IMADU 1945 USB Shanwick/ARP 50N20W 1943 F410 50N30W 2043 50N40W (RD3) Speedbird 296 0435 USB selcal BD-AH wkg Gander/Selcal check. Lufthansa 451 0445 USB selcal AL-EG wkg Gander/ARP PRAWN F370. Virgin 016 0503 USB selcal HR-PQ wkg Shanwick/ARP 52N30W F370. Air France 007 0507 USB selcal AF-CS wkg Shanwick/req F390 747-400 F-GITF. KLM 602 0519 USB selcal DJ-BG wkg Gander/ARP PRAWN F350 747-400 PH-BFA. Virgin 002 0418 USB selcal BH-JM wkg Gander/ARP 55N50W F370. Air France 063 0520 USB selcal CP-FQ wkg Gander/ARP 59N60W F370. Alitalia 651 2229 USB selcal EK-JL wkg Gander/Selcal check I-DEMY 747. S-bird Concorde 003 2247 USB selcal AG-EJ wkg Gander/ARP SM 30W 2248 F520 climbing SM 40W 2309 SSC G-BOAF. Lufthansa 409 2344 USB selcal CM-LS wkg Gander/Selcal check. German AF 141 2351 USB selcal BM-QS wkg Gander/Selcal check A310 10+23. KLM 664 2351 USB selcal DM-AK wkg Gander/ARP 58N50W F370 .85. KLM 672 0037 USB selcal DL-AM wkg Gander/Selcal check 747 PH-BUT. Lufthansa 419 0042 USB selcal CG-AF wkg Gander/ARP OYSTR F370 747 D-ABYR. Speedbird 114 0053 USB selcal BD-CH wkg Gander/Selcal chk 747 G-BBPU. Condor 173 0149 USB selcal DF-LQ wkg Gander/Selcal check. LOT 007 0237 USB selcal LQ-GK wkg Gander/Selcal check 767 SP-LPA. Singapore 25 0454 USB selcal EQ-BR wkg Gander/amended speed clearance. Air Europe 701 0457 USB selcal AE-JR wkg Gander/ARP 51N40W F370. (TO) MAU060 2259 USB Cairo,Ktm/ARP ME 2258 F350 ALEBA 2316 UMINI 2322 LUXOR 2349 To call 129.4. AIC208 2259 USB Addis,Nairobi/ARP UMINI 2256 F370 ALEBA 2308. MAU042 2259 USB Ktm,Asmara/(Mauritius-LHR) F350 TOKAR 0042.A340. AZA769 2300 USB Bombay/ARP SUGID 2253 F280 R350 MAROB 2339 sel/ FKDL(IDUPE MD11). IRA689 2259 USB Nairobi,Addis/ARP F330 AFKAR??2311. AFR485 2306 USB

Cairo/ARP SML 2306 F310 NWV 2329 To call 129.4. SAB563 2306 USB Cairo/ARP SML 2305 F280 NWV 2328 DBA 0010. KLM562 2307 USB Ktm, Cairo/(Khartoum-Cairo) SML 2352 F390 (B767). AUA532 2307 USB Ktm, Cairo/(Jo'burg-Vienna) SML 2359 F310 (A340). BAW68 2310 USB Cairo/ARP SML 2324 F310 NWV 2347 KATAB 0044. MDG053 2311 USB Nairobi, Ktm/(Zurich-Nairobi) ANTAX 0038 F330. KQA113 2311 USB Cairo, Ktm/(Orly-Nairobi) SML 2357 F370 (A310). AFR440 2312 USB Cairo, Ktm/(Orly-Reunion) ALEBA 0007 F290 (B747). QSC226 2313 USB Cairo,Ktm/(EDDF-HKMB) via SML 2345 F330 (DC10). AFR490 2313 USB Addis/ARP ALEBA 2351 F330 (LFPG-Seychelles)(B747). NGA9801 2315 USB Addis/ARP GNA 2312 F310 In contact with Ndjamena. KLM569 2315 USB Ktm,Addis/ARP KNA 2342 F310 To call 124.7. MAU091 2316 USB Khartoum/ARP ME 2311 F330 TOKAR 2323 BAKRU. AOM702 2316 USB Khartoum/ARP TOKAR 2314 F310 ME 2325 ALEBA 2346. TAW785 2318 USB Ktm,Cairo/(Nairobi-Cairo) AVONO 2331 F310 KNA 0020 SML 0131 a/c B707 reg-ELJNS. UAE083 2318 USB Bombay/ARP MAROB 2316 F350 In contact on VHF. AFM08 2320 USB Ktm,Cairo/(Cairo-Harare) Via SML 0006 F270 (DC8) LAZ515 2323 USB Khartoum/(Sofia-Jo'burg) via SML 0045 F330. SVA780 2323 USB Bombay/ARP ALAMA 2322 F330 VERLA 0002 sel/FJBH HZAIH B747. SWR282 2330 USB Khartoum/ARP ALVOR 2329 F330 DELAM 2342 OBD 2355. TRT312 2331 USB Khartoum/ARP SML 0002 F310 (Nairobi-Cairo) B.707. (RD3) KLM 569 2215 USB wkg Khartoum/ARP ANTAX 18 F310 EPSIX-AVONO. El Al 087 2316 USB wkg Cairo/req F350 now at F300 TLV-BKK. Sanaa Radio YEMEN 0326 USB wkg Wkg Gulf Air 713 at F390. French Line 735 0337 USB wkg Mogadishu/ARP F330 est AVUSI 0445 req continue at F330 in FIR. Saudia 451 0348 USB wkg Khartoum/ARP F330 Airbus A300. Kenya 321 0357 USB wkg Cairo/ARP SML 59 F330. Kenya 321 0359 USB wkg Khartoum/ARP est MRW 0434 ANTAX 0445 0455 KNA ETA Khartoum 0505 B737. Corsair 769 0400 USB selcal DS-CE wkg Khartoum/ARP TOKAR 0357 F310 ME 0410 enrt Djibouti-Larnaca 737-400. (TO)

5680 Territorial 701: 1639 USB w/Yellowknife Radio departing Kuwala for Yellowknife; climbing to FL250 / C-GHPW Lockheed L-100-30 Hercules of NW Territorial Airways. C-GMOC: 1501 USB w/Ft. Smith Radio departing Great Bear Lake for the Yellowknife VOR; climbing to FL250 Beechcraft Super King Air 200 of Ptarmigan Airways. C-GSMG: 0032 USB w/ Yellowknife Radio location unknown De Havilland DHC-3 Otter Floatplane of Plummers Lodges. C-GKBA: 1846 USB w/Ft. Simpson Radio estimating Ft. Simpson at 1940, Inuvik at 2240 Beechcraft B99 Airliner of Canadian Regional Airlines. CANFORCE 3898 1529 USB w/Norman Wells Radio, NWT @ 64-23N/121-39W Paulatuk-Yellowknife FL085. (JSM) C-GUZV 2323 USB wkg Kuujjuarapik R. FSS/this flt req. actual wx for Roberval. Wx given at 2327 for Roberval and Chibougamau. Flt called station "Jarpik Radio.". Kuujjuarapik R. FSS 2336 USB wkg Conducting radio test in FR wkg Flt having great difficulty reading Kuuj...in FR. (TO)

6535 Argentina-1162: 2234:USB: Wkg Dakar. SELCAL-JL-FG. FL330. (IB) ALITALIA 672 0240 USB w/Dakar @ "TAROT"(11-27.9N/019-40W) "EK-JL" I-DEMY 747-200. IBERIA 9727 0346 USB w/Dakar @ "ONOBI" (13-41.6N/ 24-26.5W) "GL-CD" EC-EMX DC8-62 (JSM) VRG973 0206 USB Dakar/ARP RAKUD 0205 F310 To call Recife 8861/5565. VSP791 0208 USB Dakar/ARP RAKUD 0248 F350 M.81 To call Recife 8861. VRG701 0215 USB Dakar/ARP KENOX 0248 F370 GAMBA M.80. (RD3) Air France 218 0325 USB selcal AF-BR wkg Dakar/ARP SAGRO 0324 req F350. VASP 751 0340 USB selcal DL-CM wkg Dakar/ARP RAKUD 0339 F390. Alitalia 680 0340 USB selcal FK-EJ wkg Dakar/ARP LIROL 38 F350. Air France 240 0342 USB selcal AQ-PS wkg Dakar/ARP KENOX 0335 F350 SAGRO 0413. PLUNA 302 0447 USB selcal BM-AE wkg Dakar/ARP ONOBI 0440 F310 MOGNI 0524. Air Portugal 393 0448 USB wkg Dakar/ARP KENOX 0442 F350. Speedbird 245 0322 USB selcal BP-CH wkg Dakar/ARP KENOX 19 F350 SAGRO 56 NANIK. Swissair 7021 0329 USB selcal CL-AF wkg Dakar/ARP RAKUD 24 F330 MOGNI 0406 ONOBI 0448. Opf Gemini Air Cargo by Sun Country DC10F N600GC. Air France 240 0332 USB selcal GM-DF wkg Dakar/ARP KENOX 33 F330 SAGRO-NANIK. Air Maroc 530 0336 USB selcal AE-CP wkg Dakar/ARP TAVAL 30 F350 TAMUL 55 757 CN-RMZ Abidjan-Casablanca. Air Portugal 362 0337 USB selcal AF-JS wkg Dakar/ARP RAKUD 31 F370 .80. Varig 729 0339 USB wkg Dakar/ARP KENOX F310. After this spent the next ten minutes trying to talk the controller into allowing him to climb to F370 even w/traffic above & opposite! Argentina 1111 0423 USB selcal

JM-DH wkg Dakar/ARP KENOX F310 SAGRO NANIK. LAN Chile 170 0433 USB selcal AB-PS wkg Dakar/ARP RAKUD 25 F330 MOGNI. Has anyone a reg. corresponding to this selcal code?. (TO)
6556 Vietnam-534: 2200 USB Wkg Calcutta. SELCAL- LS-CG. (IB)
6586 Navy ST9F 2300 USB NY/Fl/t VFR @ 17500ft via NUCAR 2305 req. dct Jacksonville.To call Miami 135.07 & monitor 5541. BAW74 2259 USB Accra/ARP SENOR 2312 F310 NY 2331 sel/BDEH GBDXH. CFG173 2304 USB NY/ARP LOUIZ 2302 F330 HUNKY 2309 JESSE 2316 - BERGH 2335 sel/LMBR (DABUA B767). BAL065B 2304 USB NY/ARP BRUNZ 2314 F270 KOHOE. CUB1481 2305 USB NY/ARP JESSE 2303 F240 MAPYL 2326 ELBOW.To 134.8 (AW) Air Europa 124 2052 USB selcal HS-GK wkg NY/ARP 30N60W F350 35N50W-40N40W. (TO)
6617 Rostov (-na-Donu) Meteo, RUS: 1626 USB RR Volmet fr Krasnodar, Mineralny Wodi, etc, s/off-ID "Rostov Meteo kanjez", Volmet sked: h+25. (Sankt) Petersburg Meteo, RUS: 1735 USB RR f Volmet, sked: h+35 (ANDL)
6622 Shanwick 1630 USB w/"001" (ANDL) N352AF 1737 USB Shanwick/ARP 57N20W 1736 F370 56N10W 1817 MAC. (RD3)
6628 Santa Maria OACC: 2200 wkg REACH V7 involved in search at FL 370 20 NM W of Flores A/C reported that due to the weather closing in and lack of fuel it would return to base at Norfolk VA. (CM2)
Santa Maria UTC? USB wkg N2664P (?) Lake (?) crossing atlantic 43N 38W (?) who had encountered fuel transfer problems at one point Shanwick & New York wre both trying to contact this plane w/no joy. It did however report being initially at 1,000 ft rapidly descending (!) recovering to 1,900 for a while looking healthier but then back to 1,000 & then loosing contact w/Oceanic. Interestingly I was lead to this freq. by a USAF flight on 8968 reporting to Lajes picking up the initial distress call from the plane. Wkg Santa Maria at the same time was 'REACH V8' refuelling with 'QUID 81 and 82' in the Azores area I believe. (LB5)
6637 CKS801 0256 USB Miami/Various dep/arr msgs too faint only caught ETA Miami 0435 Fuel 56.0 req.KMIA wx. (RD3) Fine Air 64 0404 USB wkg Cedar Rapids/pp to Comp. Ops re: dev. 60 mis S of track due volcanic activity in the Mexico City FIR at ATC req. Fine Air 426FB 0442 USB selcal DK-GJ wkg Miami LDOC/req selcal check on ramp at MIA; Miami informs flt. selcal unit out of service, unable selcal check. N92LA 0449 USB wkg Houston LDOC/dept. SVMI 0358 ETA Wilmington 0717 at F390. Fine Air 426 0415 USB selcal DK-GJ wkg Miami LDOC/Selcal check departing MIA in about 10 minutes. (TO)
6649 REACH 8L3 0313 USB wkg Recife/ARP 5.40N3850W 0308 F340 req F370. LAN Chile 171 0315 USB wkg Recife/ARP POLDA 0314 F350--note that Recife now seems to have switched freqs from 8861 to both 8855 and 6649 in addition to 5565 to work flights in the SAT MWARA. LAN Chile 139 0330 USB wkg Panama/ARP DUXUN 29 F330. Boliviano 911 0513 USB wkg Panama/ ARP ALBAN 09 F330. (TO)
6676 Sydney Volmet, AUS: 1730 USB EE m machine voice, Volmet fr Melbourne, etc., h+30 (ANDL)
6730 Almaty (Alma Ata) Meteo, KAZ: 1715 USB RR f Volmet, id, sked: h+15 (ANDL)
6765 HSW: Bangkok, Thailand 1308 USB wx bcst. (AB2)
7542 AMM 430 1905 USB over Limoges, France wkg Stockholm R., private pp to UK (QSY'ed here from 8930). (MB3)
8825 Manilia 1020 USB talking to 2 others in Aero band, NAT-E. (AW)
8828 Honolulu Volmet 1035 USB wx & ID. (BDS) Honolulu Volmet 1200 USB aviation wx USB wkg sigmet warnings. (KW2)
8846 Fine Air-794: 2100: USB: Wkg N. York. SELCAL- BL-CH. FL350 (IB) Biscayne 612 1916 USB selcal JL-CH wkg NY/ARP SE of BROOM F310. Challenge Air 80P 1919 USB wkg NY/ARP BURTT F390 JAINs. USAir 1459 1920 USB selcal HR-JL wkg NY/Selcal check listed as 737-400. N150JT 1934 USB selcal BG-HK wkg NY/ARP PRISS 32 F310. American 664 2003 USB selcal BP-EK wkg NY/Selcal check A300 N7062A. (TO)
8849 Beijing 0750 USB Volmet wx in EE by YL. (AW)
8855 OXO503 0216 USB Manaus/ARP MADKO 0235 req.Manaus wx.To call 126.3 (opr-Millon Air,Miami). UAL976 0220 USB Porto Velho/ARP ISATU 0215 PALES 0221 BOLSO req. deviate 20nm r.of track due wx.To call 133.8. UAL990 0230 USB Manaus/ARP DARLO 0307 F390. UAL992 0234 USB Manaus/ARP ATF 0231 F390 NANDA 0303 MANAUS next. AAL972 0241 USB

Manaus/ARP XINGU 0239 F350 ATF 0300 sel/EGCM N316AA B767. (RD3) Rio-Sul 859 0522 USB wkg Belem/departed Monte Dourado 0510 enrt Belem at F190. Fokker 50!!!. Varig 818 0524 USB selcal CD-HK wkg Manaus/ ARP ATF 22 F310. American 904 0538 USB wkg Manaus/ARP ISANI F350 Canaima 0553. Tower Air 61 0602 USB wkg Manaus/ARP ATF 59 F370 REMIL 0618. Varig 834 0604 USB wkg Manaus/ARP KADUT F350 PONTE 0610. Navy JA03 0616 USB wkg Cayenne/at F220 req F240 est 1020N4708W at 0802. Listed as P3C from Pautuxent NAS. Cleared to F240 at 0618. American 962 0419 USB wkg Manaus/ARP EDRIP F310 ATF 0435. Argentina 1301 0419 USB wkg Manaus/ARP VAGAN 0416 F310. Aeroflot 6211 0420 USB wkg Recife/ARP RAKUD 0419 F310. United 976 0437 USB wkg Manaus/QSY Manaus CTR 126.3/125.4/128.3. Varig 854 0438 USB wkg Manaus/ARP ATF 0435 F350. Speedbird 245 0438 USB selcal BP-AL wkg Recife/ARP ONTER 34 F350 REPUR 0517. American 906 0451 USB wkg Manaus/ARP abeam DARLA 51 F350-dev 10 miles left of course for wx. Canadian 101 0454 USB wkg Manaus/ARP PAKON 51 F310 GNA 0521 MUN. REACH 8L3 0310 USB wkg Cayenne/Belem-working both of these stations re flight level. Must descend now to F330 at Belem's req. QSY Recife Center 6649/5565. Aruba 521 0433 USB wkg Manaus/req F370 QSY Brasilia CTR VHF. Transbrasil 796 0501 USB wkg Manaus/ARP Boa Vista 0500 F390 PAKON. Argentina 1302 0556 USB wkg Porto Velho/ARP IRAJA 45 F350 Leticia. Viasa 945 0509 USB selcal DG-AK wkg Manaus/ARP ISANI F330. La Paz Radio BOL 0405 USB wkg Clg Porto Velho no joy. American 962 0447 USB selcal AP-HQ wkg Manaus/ARP RONIL F310 ATF 0505 JAC 14. Cedar Jet 664 0449 USB selcal BG-AF wkg Recife/ARP TURAB 0446 F350 VODSA 0532 GARUP. IDed as ME 664. req F370 747 OD-AGH enrt Abidjan-GRU. Polar Tiger 064 0452 USB selcal GK-DH wkg Manaus/ARP ATF 0450 F280 req F310. United 992 0458 USB wkg Manaus/ARP VAGAN 42 F350 ALBOG. United 982 0458 USB wkg Manaus/ARP Boa Vista 0456 F350 ISANI 0508 Canaima next. (TO)

8861 CIE-001: 2303: USB: UNID - but Tony sez a/c is Czech Government Flying Service + could be an IL62 // OK-BYV. Wkg Recife. FL290. Varig-768: 2237: USB: Wkg Dakar. FL330. JHL-4: 0557: USB: UNID Wkg Recife Aero. FL350.(IB) Reach JHL3 0315 USB wkg Recife/crossed UA302 0304 F330. Ascot 3220 0334 USB selcal LM-BJ wkg Dakar/est BEMOG 0351 & selcal chk. Varig 765 0344 USB selcal EF-CK wkg Recife/ARP KODOS 39 F350. Alitalia 681 2100 USB selcal FK-EM wkg Recife/Selcal check MD11 I-DUPC. (TO)

8864 Rch D08 0956 USB Gander/58N30W 0955 F310 57N40W 1041 56N50W eta KDOV 1455 Fuel 90.0 sel/ACLM (N998CF DC8) To copy to Emery ops. (AW) UAL 907 1609 USB wkg Gander, req fl370, later req M.84. UAL 907 1630 USB wkg Gander, 57n 40w 1627 fl370, 56n 50w 1713, scrot. UPS 9341 1605 USB wkg Gander, loach 1555 fl370, 58n 50w 1629, 55n 40w. UAL 941 1606 USB wkg Gander, 62n 40w 1604 fl350, 61n 50w 1641, 59n 60w. RCH Q2 1608 USB wkg Gander, 61n 30w 1604 fl350, 60n 40w 1644, 59n 50w. Elite 318A 1616 USB wkg Gander, 57n 40w 1612 fl350, 56n 50w 1700, scrot selcal JQHK. RCH 1815 1617 USB wkg Gander, 61n 30w 1616 fl310, 60n 40w 1656, 59n 50w, req fl350. Transat 847 1618 USB wkg Gander, in ctct Moncton Center. AAL 141 1618 USB wkg Gander, 58n 40w 1615 fl370, 57n 50w 1701, loach. TWA 721 1619 USB wkg Gander, company re-release message. Laker 503 1625 USB wkg Gander, 57n 40w 1623 fl330, 56n 50w 1709, scrot. AAL 89 1627 USB wkg Gander, 62n 40w 1624 fl350, 61n 50w 1702, 59n 60w. AAL 147 1628 USB wkg Gander, 58n 40w 1625 fl390, 57n 50w 1711, loach. UAL 919 1633 USB wkg Gander, 56n 50w 1628 fl350, scrot 1657, bally (?) ->133.425 (Moncton Center). Tourjet 853 1634 USB wkg Gander, 59n 30w 1629 fl350, 58n 40w 1710, 57n 50w, req fl370 selcal EFAL (?). IFB 03 1637 USB wkg Gander, 61n 30w 1630 fl370, 60n 40w 1708, 59n 50w, req fl390 selcal ASCM. (BH) VH-IGN: 0631 USB Airtex Aviation, Wkg Brisbane. en route YSSY. (IB) VH-ASM 0635 USB wkg BNE/ARP OPOGO F350 RUVOX 0721 QSY MEL CTR 127.0 at RUVOX. Qantas 38 0642 USB wkg BNE/ARP GUNOB F290 DOGIK 33 QSY MEL CTR at DOGIK 127.0. VH-ASR 0645 USB wkg BNE/ARP F270 TOKIM? 0737 QSY 5643. (TO)

8879 RJA001 1822 USB Gander/ARP 49N30W 1820 F390 48N40W 1917 45N50W sel/AHFM Any ideas for this type/reg ?? (RD3)

8891 N652PC 0946 USB Bodo/ARP 59N10W 0945 F430 ALDAN 1033 VM.Unable to contact Iceland or Shanwick. Navy LK26C 1804 USB Iceland/ARP GUNPA 1803 F260 6650N10W 1913,dest.KEF (AW)

8894 RMV-286: 2055:USB: AeroMavia Wkg Algiers. (IB) Algiers (AFI-2 MWARA)

0025 USB wkg Speedbird 74 (BAW) w/posn, FL 370. (RB) SFB 120 2040 USB wkg Algiers/ARP LUKNA 45 F220 TB 2121 probable An-12 w/Air Sofia. Nigeria 9903 2058 USB wkg Niamey/ARP approaching AMSIN F330. Air France 7203 2249 USB selcal JM-BC wkg Niamey/ARP Abidjan-Paris (CDG) Gao 2247 F330 MOTET 2324 Insalah 0014 ETA CDG 0430 A310 F-GEMB. Springbok 261 2251 USB wkg Niamey/ARP KIRMI F370 INISA 2324. Lufthansa 561 0023 USB selcal HJ-EL wkg Algiers/ARP AMTES 19 F330. Speedbird 074 0024 USB selcal BD-EH wkg Algiers/ARP AMTES 0020 F370. Swissair 265 0025 USB selcal AG-EQ wkg Algiers/ARP AMTES est 35 F330. SBZ 003 0029 USB wkg Niamey/ARP KIRMI F330 INISA 0103 This flt is listed in the latest OAG as being operated by a 72S BRU-Kinshasa. (TO)

8903 AFI-4 2115 USB to 2155, variety of ground stations to a/c heard here in EE & FF, incl. Luanda, N'Djamena, Brazzaville, & Kinsasha; also a/c clg Accra, Niamey and Entebbe (no ground response hrd); first time I listened to this freq, quite a challenge sorting it all out! (BDS) G-BNLW: 2029: USB: BAW, "City of Norwich" Wkg Kinshasa. SELCAL - BR-AE. N401JL: 2135: USB: UNID a/c Wkg Kinshasa. FL430. CS-TOD: 2142 USB Air Portugal Wkg Kano. SELCAL-HS-FP. SVL-1001 1652 USB SAAK. Stavropol. Wkg Accra. ST-ANP: 2113 USB Trans Arabian Air Transport Wkg Kano. CAMAIR-708: 2116 USB Clg & Wkg Kano Aero. (IB) SABENA 554 0125 USB w/Brazzaville @ "MPK"(04-22.5N/18-31.6E) OO-SGC 747-300 Jo'burg-Brussel. ETHIOPIAN 970 0020 USB w/Kano @ abeam Port Harcourt (Nigeria) (04-58.8N/006-55.9W) "CM-AJ" ET-AIE 767-200 Accra-Nairobi. AIR PORTUGAL 234 0001 USB w/N'Djamena @ RULDO" (08-00N/016-55.1E) CS-TOA A340 Airbus Hirare-Lisbon. SWISSAIR 285 2207 USB w/N'Djamena @ "ONUDA"(08-09N/22-51E) "AF-MQ" HB-IWE MD11 Jo'burg-Lisbon (JSM) N401JL 2135 USB Kinshasa/ARP MPK 2133 F430 TJR 2230 KA next,gave company name as Collen Corp,KPHL,Pen 19153 and a/c type as Gulfsteam.! (RD3) ADK 097 2108 USB wkg Kano/just caught ETA Entebbe 0055. N190WW 2112 USB wkg Brazza/difficult copy but departing Douala F330 Westwind 1124. KLM 594 2129 USB wkg Brazza/ARP UMOSA 2129 F350. VIR 602 2157 USB wkg Kinshasa/ARP PISPA F350 UPARA next. Sabena 550 2159 USB wkg Kinshasa/ARP UGDUS F310 747-300 OO-SGC. Speedbird 052 2206 USB wkg Kinshasa/ARP UGDUS F350 747-200 G-BDXB. Alitalia 837 2208 USB wkg Kinshasa/ARP MPK 08 F350 MD11 I-DUPU. Speedbird 056 2254 USB wkg NDJ/ARP RULDO 53 F350 G-CIVA 747-400. Lufthansa 569 2255 USB wkg NDJ/ARP ERAGA 2255 F350 KOBLA 2307. Swissair 284 2257 USB wkg NDJ/ARP INISA 55 F330 DELIS 2313 ENBUT 2328 MD11 ZRH-JNB. Springbok 267 2339 USB wkg NDJ/ARP DELIS 33 F330 ENBUT 2347 MU 56. KLM 750 1956 USB selcal AF-MR wkg NY/ARP DDP 1935 F330 GRANN 2012. (TO)

8918 New York (CAR-A MWARA) 2351 USB wkg American 2176 re is diverting direct to Cyprus & needs wx. (RB)

8921 SVA6353 1648 USB Speedbird Lon/On ground Paris;arr.LFPO 1634/44 fuel 12.4.To call 5535/10072 as unreadable(clear by me!) (RD3)

8930 Rch5038 0950 USB Stockholm/dep.ETAR 0850/0916 eta KPHL 1711 dep. fuel 165.0 uplift 20655 USgal 240 pax sel/DFEG (N194AT L.1011). SBE6013 1744 USB Portishead/On ground Mahon,p/p to Company;will be back at EGKK 2145 or earlier.Not sure how many pax to take from Goldcrest Avn.poss.130 pax.Caledonian will take the remainder in an A320. (AW) KLM 346 1604 USB wkg Stockholm R., req private pp. Stockholm R. QSY'ed him to 10.575. Soon KLM 346 was back on 8930 complaining abt strong QRM from a RTTY stn on 10575 & told Stockholm R. to 'forget about the pp' (the RTTY stn. was S9 here). (MB3) CYP1376 1704 USB Stockholm/p/p to CYP ops,Larnaca. CAL346 1740 USB Stockholm/dep.LUX 1700/27 eta AUH 2330 Fuel 101.8 uplift 27873USg payload 107870kgs sel/GLFM B747. TFABE 1758 USB Stockholm/o/h Bucharest-req selcal chk-Stockholm sent'FMAB'which din't check,'ABE' stated it was GJBF not FMAB,which checked OK! (RD3)

8933 SAA252 0203 USB Springbok ops/o/h RUPNAL? 0203 F350 ANIRO 0228 (RD3)

8937 Berne Radio (SUI): 1335 USB f EE w/UNID, QSY fm 10069 (ANDL)

8939 Moskwa Meteo (RUS) 1313 USB RR f Volmet fr Vnukova, Nishni Novgorod, Cheremetowa, Voronezh, Ulyanovsk, etc., s/off. Kiev Meteo (UKR) 1320 USB RR f Volmet fr Kishinev, Simferopol, Dnepropetrovsk, Donetsk, etc., s/off (ANDL)

8951 United 2 0905 USB wkg Tokyo, Posrep. (AW)

8957 EIP, Shannon Volmet, IRL: 1335 USB m EE Volmet (ANDL)

8960 5X-JET: 2221: USB: Das Air Cargo Wkg Portishead R. G-BPND: 0953:USB:

Sabre Airlines Wkg Portishead. (IB)
10018 Bombay FIC, MWARA:MID (IND) 1615 USB EE m clg India-154? (ANDL)
10033 AJT 820 1952 USB wkg Miami LDOC/dep SJU 1927/38 ETA MIA 2145 Amerijet 727.... (TO)
10051 Gander Radio (CAN) 0020 USB m EE Volmet (ANDL)
10069 Berne Radio (SUI) 1352 USB m EE w/Korean 905 to Frankfurt, s/c ARQS, wx req fr FFM; 1618 w/Korean 907, eta London-Heath; 1820, s/c KLGP; C6BER 1434 USB clg Berne, pos. Firenza (I), no answer, infos pse abt call/stn !; Berne 1315 USB w/OEFD, pp to Austria in GG/Austrian accent, id also as OFD; 1650 w/VRCCG at/nr Athens, pp in GG to Zurich, id also as VCG or CG; 1730 USB w/UNID to London-Heathrow, wx, s/c LREG; 1312 w/TWA1910 s/c AEGK; 1310 w/ Korean 9013 s/c ESCJ to Paris-CDG ?; 1000 w/TWA841 s/c EFAJ; 1040 USB w/Air Maroc 810 fm Casablanca to Frankfurt, pos. Madrid, s/c AMBS; 1041 w/American 111 to Miami. 1041 Alitalia 620 clg Berne; Berne 1045 USB w/Korean 913, wx fr Amsterdam (ANDL)
10072 Speedbird London (G) 1323 USB f w/Speedbird 268; 1325 w/ Jetset(?) -809, 100 S of Belgrade, s/c: CR-DS, pp to Manchester Control; 1415 w/UNID, registration BIKB s/c KLAG pp req. to Mainsail (?); 1418 w/Speedbird 851; 1508 w/Speedbird 485 pos. Paris (ground); 1510 w/(Jetset)-448 s/c APDK, pp to Manchester Operations (=their company); 1718 w/Caledonian 704 pp to Caledonian Operation Ldn-Gatwick. Bombay (IND) 1648 USB EE m w/India-??? (ANDL)
10075 Big A 320 0425 USB selcal HK-AF wkg Houston LDOC/dept. SKRG & selcal check. HP1A 1913 USB wkg Clg Houston LDOC no joy; ideas?. (TO)
10795 Stockholm Radio LDOC 1240 USB pp w/Dutchman, tel.number don't answer. 1301 clg VRCVD pls go to 8930. 1336 pp w/Air India. (btw 10790 kHz unknown freq. for Stockholm R.) (PB)
11282 Northwest 933 0159 USB wkg HNL/ARP re-estimating DEROK 0233. Northwest 924 0202 USB wkg HNL/req F370; cleared at 0204. (TO)
11297 Kiev Meteo, UKR: 1750 USB RR f Volmet fr Lvov/Donetsk/Lugansk/ Kishinev/etc., s/off-ID: "Kiev Meteo konjez", sked h+50. Rostov Meteo, RUS: 1755 USB RR f Volmet fr Stavropol/etc., sked: h+55. (ANDL)
11300 AIN 817 1957 USB selcal BK-AM wkg Khartoum/ARP ATUGA 56 F310 JU 2005 DC8-54F 3D-AFX. (TO)
11342 Fine Air 44UA 1939 USB selcal AK-HL wkg NY ARINC/o/h Piarco departed SMJP 1829/1834 ETA MIA 2309. (TO)
11345 TAQ-223: 1320 USB TaunusAir Wkg Stockholm R. Air Jamaica-002: 1241 USB Wkg Stockholm, & req Wx for Bermuda. TTA-901: 1058 USB TransAereo Wkg Stockholm Radio. (IB) Amtran 5018 1227 USB wkg Stockholm R., N512AT, dep LETR 1220 eta LPLA 1441, 190 pax. BA 3572 1422 USB wkg Stockholm R., msg for Atlasair New York: dep BAH 1335 eta LGW 1958. Maerskair 472 1436 USB clg Stockholm R., but got no reply. Futura EC-EXY 1536 USB wkg Stockholm R., pp to 'operationes' Palma. Eurofly 1805 1547 USB wkg Stockholm R., pp to company re eta. (MB3) SLR2735 1705 USB Stockholm/o/h Canarias,req.private pp-To 10805. KLM982 1847 USB Stockholm/o/h KUK 1846 F350 Fuel 50.6 eta AMS 2125 sel/DKFG N507MC B747. ECGEQ 1142 USB Stockholm/request p/p to Air Europa ops. ECGBV 1149 USB Stockholm/Request p/p to Centennial ops. FGKAE 1151 USB Stockholm/Req pp to Air Enterprise,Paris (Falcon100 (RD3)
11355 TRACING(?): 1420 USB clg Falcon (Gulf Air at Manama, Bahrain) came in pretty strong. a/c callsign was GF072 Bahrain-Madras. (LL)
13205 Air Europa 772 1930 USB clg Berne Radio for several minutes, no joy here. (RB)
13261 Nandi 2340 USB clg several aircraft. (AW)
13282 Auckland 0220 USB Volmet wx broadcast. (AW) Auckland VOLMET 1924 USB wkg Auto wx for La Tontouta and ID. (TO)
13342 JAL1417 USB Stockholm/p/p to ops,LHR-e/r ZRH,SATCOM u/s-Ops said they will send reclearance via ACARS when in VHF range. (AW) Cyprus 1558 1232 USB wkg Stockholm R., over N Greece, enrt Larnaca-Hamburg, selcal ck DH-EG. Japanair 415 1246 USB wkg Stockholm R., rcvd reclearence to CDG. KLM 997 wkg Stockholm R., msg for Atlasair New York: dep OMDB 1213 eta WMKK 1836. Futura EC-EVE 1548 USB wkg Stockholm R., pp to 'operationes' Palma. BA 3571 wkg Stockholm R., msg for Atlasair New York: departed OMDB 1542 eta HKG 2235. Stockholm R. clg LH 8183 but getting no reply. (MB3)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

15.9 Unid: 2039 OQPSK 200bps UNID System (MC)
19.6 Unid: 2042 OQPSK 200bps UNID System (MC)
20.3 Unid: 2046 FSK 50bd/45 UNID System (MC)
21.1 Russian Navy 2047 36-50 50bd/70 tfc (MC)
21.7 Unid: 2051 OQPSK 200bps UNID System (MC)
37.5 Unid: 2054 OQPSK 100bps UNID System (MC)
39.9 Unid: 2100 OQPSK 100bps UNID System (MC)
49 Unid: 2105 FSK 50bd/85 UNID System (MC)
53.6 Moscow Meteo, RUS 1815 FAX 120/576 FL350 wind & temp prognosis. (KB)
53.6 Moscow Meteo 2300 FAX. (RRR)
57.4 Unid: 2106 FSK 50bd/50 UNID System (MC)
61.8 Unid: 2016 FSK 75bd/85 UNID System, sync, cont, ACF=0 (MC)
129.1 DCF49: BMPT Bonn,D 1141 ASCII 200bd Encrypted traffic + tests (AB)
130 Unid: 2022 FSK 75bd/80 UNID System, async, cont, ACF=0 (MC)
135.5 Unid: 2023 FSK 75bd/75 UNID System, sync, cont, ACF=0 (MC)
141.4 Unid: 2024 FSK 75bd/75 UNID System, sync, cont, ACF=0 (MC)
144.5 Moscow Meteo, RUS 1830 FAX 90/576 not so good chart. (KB)
147.3 DDH47: Hamburg Meteo,D 1253 RTTY 50bd RYRYRY (AB)
DDH47: Hamburg Meteo, D: 1610z RTTY 50Bd RY-mkr "CQ de DDH47 DDH9 DDH8 ... 147.3 11039 14467.3 kHz" (ANDL)
518 GCC: Cullercoats Radio,G 2050 FEC Navtex. PBK: Neth. Coast Guard,HOL 2348 FEC Navtex. CROSS Ile d'Ouessant,F 0000 FEC Navtex. GNI: Niton Radio,G 0018 FEC Navtex. SDJ: Stockholm Radio,S 0030 FEC Navtex. LGT: Rogaland Radio,NOR 2148 FEC Navtex. GNI: Niton Radio,G 2151 FEC Navtex. OST: Niton Radio,BEL 2200 FEC Navtex 'M' service. OST: Oostende Radio, BEL 2248 FEC Navtex, 'T' service (AB)
NMN: USCG Portsmouth, Va 0155 FEC Omega NAVTEX messages & firing exercise warnings. NMR: USCG San Juan, PR 0213 FEC Nav warnings. Unid 0220 FEC NAVTEX wx incl. port warnings due to hurr. Hortense id'd as "USCG GANTSEC BDCST NAVTEX BNM" - (BDS) (This should be a part of CG San Juan's broadcast, GANTSEC is Greater Antilles Section, San Juan, PR -LOGS)
PBK: Netherlands CG 1956 FEC distress mgs. SUZ: Serapeum radio 1957 FEC navtex mgs blown away by cross ill de Quessant. ESA: Tallin radio 2030 FEC navtex. GCC: Cullercoats rdo 1700 FEC rig list. (BvR)
SDJ: Stockholm Radio 2034 FEC with Nav Warn 240 s. GCC: Cullercoat Radio 2049 FEC with mess: GEO2. Unid: Gran Canaria Radio 2125 FEC w/mess: IA48. GPK: Port Patrick Radio 2131 FEC with msg: OE02. SVH: Iraklion Radio 2140 FEC with msg: KA2. SVK: Kerkyra Radio 2141 FEC w/Nav Warn. GNI: Niton Radio 2147 FEC w/msg: SB27. SVL: Limnos Radio 2151 FEC Nav Warn 27/96. LGQ: Rogaland Radio 2211 FEC msg LB50. 4XO: Haifa Radio 2235 FEC w/exchange for all kinds of traffic. OST: Oostende Radio 2248 FEC w/Pilot msg TF21. Unid: Lyngby Radio 2333 FEC relayed from Riga Radio Nav Msg. PCH: Netherlands Coast Guard 2347 FEC Nav Warn no 16 PA60. FFU: TTT AvurNav Brest 0050 FEC msg no 485. UNID: NAVAREA II 0030 FEC msg DE78. (La Coruna, Spain on trial -LOGS)
UGE: Arkhangelsk Radio 0201 FEC w/Nav Warn 48. N/A: Malta Radio 0219 FEC w/Marsat alert. UNID: Notship Y3159 0239 FEC w/following: Loran -C station Fox Harbour on 5930khz and 7270 khz X-ray will be out of air from Sept 28 and ending on Oct 12. 9AS: Split Radio 0256 FEC w/ Shipping forecast. TFA: Reykjavik Radio 0317 FEC w/no msg on hand. ESA: Talinn Radioo 0436 FEC w/Nav Warn 028. YLQ: Riga Radio 0435 FEC w/Nav Warn 020. (CVS) NMA: USCG Miami, Fl remoted from NMN 0400 FEC NavTex Code "A". Coastal marine forecast. NMF: USCG CommSta Boston, Ma 0445 FEC Navtex Code "F" tfc. NMN: USCG CAMSLANT Chesapeake 0530 USB w/NAVTEX Code "N" tfc, at 0140 next night w/hydrolant info. NMR1: GANTSEC, USCG San Juan, PR 0614 FEC w/NAVTEX code "R" tfc. VCO: CCG Sydney, NS, CAN 0640 FEC w/NAVTEX code "Q" b/cast. NMG: USCG CommSta New Orleans, La 0700 FEC w/code "G" NAVTEX wx. (RB)
521.5 Unid: 2028 FSK 100bd/160 UNID System, sync, cont, ACF=0 (MC)
524 Unid: 2030 FSK 75bd/165 UNID System, sync, cont, ACF=0 (MC)
1860 Unid: 2055 QPSK 250bps DGPS info (MC)
1894.5 Unid: 2058 QPSK 250bps DGPS info (MC)

1895 Unid: 2057 QPSK 250bps DGPS info (MC)
1905 SAB: Goteborg Radio,S 2332 ARQ Tfc to several vessels (AB)
2017.5 Grengel Met, Germany UTC? FAX 120/576 horrendous multipath but on air again. (LC)
2038 Unid: 0414 Unid 110/220 w/unid mode, sounds same as 7542.7, 5220.7. (RB)
2187.5 GMDSS CHANNEL 2314 GMDSS 100/170 Logged to disc till 29/0850. File shows number of packets including two distress calls (North Sea SE of Shetland + N Dover Straits) w/acknowledgements & distress relays. (DW)
2195.5 DHM: Grengel meteo 1832 RTTY 100 wx. (BvR)
DHM44: Grengel, Ger 1900 RTTY 100/400 wx for German locations. (JD2)
DHJ51: Grengel Meteo, Ger 2101 RTTY 100bd/400 METAR WX for German airports (MC) (we show the c/s as DHJ51...chg? -LOGS)
2249 MUH: unk 0830 PICCOLO-6 wkg MKK (3109.5). (JD2) (MUH is is unid British Army, MKK is RAF London- LOGS)
2342.5 Grengel Met, Germany UTC? FAX 120/576 horrendous multipath but on air again. (LC)
2460 YLQ, Riga Radio, LTU: 0220 ARQ CW-id (ANDL)
2461.5 OA: Irish Navy Dublin,IRL 2133 ARQ Routine msgs. 81: Irish Navy,IRL 2156 ARQ w/37. Routine msgs (AB)
2474 PBC: Dutch navy Goeree,HOL 2314 RTTY 75bd Availability msgs (AB)
2514.8 ???, Turkish Navy (where?), TUR: 0025 RTTY 75/850 NATO-routing-header/styl msg to (PP) RTQGDBCY in 5LG's. (ANDL)
2538 SQBL: mv Ziemia Krakowska 2058 ARQ clg QFKV, QFMV, QFMP (all Norddeich Radio) (AB)
2573.7 PBC32, DNy Goeree, NLD: 0215 RTTY 75/850 w/CARB-msg: 02A 04C 06B 08B 12B 17X 22X PBC (ANDL)
2608 FUO, FNy Toulon, F: 0210 RTTY 75/850 mkr: VVV DE FUO RY SG 1234567890 INT ZBZ (ANDL)
2608.4 FUO: French Navy 2034 RTTY 75bd/850 "vvv vvv vvv vvv de de de de fuo fuo fuo fuo" (MC)
2609 FUO: French navy Toulon,F 2303 RTTY 75bd RY tape (AB)
2610 Unid 2300 RTTY 50bd Endless 5LG's. All msgs end with 'QRU F R' (AB)
2651 Unid: 2037 FSK 75bd/170 UNID System, Reversals, lead-in ACF=64, crypto (MC)
2720 Samara Meteo, RUS 2015 FAX 60/576 unreadable chart with iso lines, ending at 2030. (KB)
2727 DAN, Norddeich Radio, D: 0210 ARQ CW-id: DAN (ANDL)
2780.7 GND4, Stonehaven Radio, G: 0205 ARQ CW-id: GND4 (ANDL)
2785.2 UNID: 2332z RTTY 75/850 mni coded msg each after RYRYRYRYR... VMGTCNJ-character 1 line dwn-BH, MARK QRV in msg-free times, see WUN 7/96 digital 8317.8 kHz, VFT of FUE on 2788.7 ?? same time/exact same signal level on S-meter, also UNID 850Hz on 2787.2 kHz, also a VFT-ch.??. Brit. Military? (see WUN-Logs 7/96 Digital: 62 kHz) (ANDL)
2788.7 FUE, FNy Brest, F: 0200 RTTY 75/850 mkr: AA DE FUE TESTING RY SG 1234567890 K, 2320z w/FF-tfc after FS FS DE FUE FUE PAS DE SYNCHRO QRX K, than agn AA de FUE/RY-mkr. 0018z bit more then 75-?/850 mkr: VV DE FUE VV (ANDL)
2789 FUE: French navy Brest,F 2240 RTTY 75bd VVV test tape (AB)
2795 ESA: Tallinn Radio, EST 2241 ARQ w/CW marker (AB)
ESA, Tallin R, EST: 0015 ARQ / CW id: DE ESA (ANDL)
2805.8 IGJ41, INy Augusta, I: 0002 RTTY 175/850 w/CARB-msg: IGJ41LK /IGJ42 /IGJ43 /IDR2 /IDR3 /IDR8 /IDR5 /, // to 2814.8 kHz (ANDL)
2814.8 IDR8, INy Rome , I (?): 0014 RTTY 75/850 w/CARB.msg: IGJ41LO /IGJ42 /IGJ43MO /IDR2 /IDR3 /IDR8 /IDR5 /, // to 2805.8 kHz (ANDL)
2815 IDR8: Italian navy Rome,I 2235 RTTY 75bd Availability msgs (AB)
IDR8, INy Rome, I: 0155 CW mkr: VVV DE IDR8 (ANDL)
IDR8: Rome Naval, Italy 2235 RTTY 75/850 combined CARB IDR/IGJ, not parallel. IGJ is 100 baud. (JD2)
2829.5 SPB, Szczecin Radio, POL: 0155 ARQ CW-id: SPB (ANDL)
2832.7 MOD Paris,F 2157 ARQ-M2 200bd Encrypted msgs (AB)
GNK1, Norwich Radio, G: 0155 ARQ CW-id: GNK1 (ANDL)
2840.7 DBIF: mv BG22 Neustrelitz 0635 ARQ w/Cuxhaven CG. BG22 has e-diesel problems. DLGZ: mv BG21 Bredstedt 2301 ARQ w/Cuxhaven CG. Posn report (AB)
2892.3 MGJ: Navy Faslane,G 2254 RTTY 75bd Availability msgs (AB)
MGJ, RNy Faslane, G: 0155 RTTY 75/425 w/CARB msg, e.g.: 02D 03B 04B

06C 08A 08D 12B 12C 16C 25D MGJ", MGJ-id each 2 CARB-msg (ANDL)
MGJ: RN Faslane, Scotland? 0045 RTTY 75/340 availability data. (FH)
2896 IGJ41: Italian navy Augusta,I 2256 RTTY 75bd Availability msgs (AB)
3029.7 Unid: 1755 ARQ irs mode 1756 s/off 1757 selcall putp than opr comms in GG, cg? (BvR)
3043 Unid: 2030 FSK 150bd/850 UNID System, sync, cont, ACF=0 (MC)
3109.5 MKK: RAF Bampton, UK 0830 PICCOLO-6 wkg MUH (2249). (JD2)
3159 9MR5: Johor Bahru Naval, Malaysia 1700 RTTY 75/850 broadcast ID MRB. (JD2)
3172.2 IMB31, Rome Meteo, I: 2300 RTTY 50/850 RY/CQ-mkr: ZCZC CQ DE IMB/31/32/33 RYRY NNNN (ANDL)
IMB31: Roma meteo,I 2228 RTTY 50bd RY tape (AB)
3215 UGC, Sankt Petersburg Radio, RUS: 2050/2355 ARQ / CW id: UGC (ANDL)
3230.2 AFF2? 0100 RTTY 75/850 w/EE KAWN wx. (FH)
3232 AFS: USAF AWS Elkhorn UTC? FAX 120/576 but too much switched mode psu noise to copy here. (LC)
3235.5 British Mil 2032 Piccolo-12, crypto (MC)
3236 NATO Mil 2125 Link-11, tfc (MC)
3287 CKN: Vancouver, CAN 0320 RTTY 75/850 NAWS DE CKN. (AB2)
3331 Unid 1948 RTTY 50bd Endless 5LG's. (AB)
3356.2 Russian Mil 2028 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
3386.2 UNID: 0153 UNID mode (192/300) (ES)
3389.7 MGJ, RNy Faslane, G: 2025 RTTY 75/850 w/CARB msg, e.g.: 02 04 OO MGJ
3554.2 RFLIGE Caribbean? 1140 ARQ-E 192/100 Idle with ID, C. I. ="geg" (ED)
3652 Northwood Naval, GBR 0230 FAX 120/576 In the last four times I've received this chart it's been a different orientation presumably to reduce the boredom. (LC)
3667.2 Egyptian Air Defense 1930 ARQ-E 46.1 tfc til 0500 (ANEE)
3756.7 RFLI: Ft de France 0140 ARQ-E3 192/400 (IRA) to RFLID Pointe a Pitre w/FF msg, been here for years, not in callbooks. (FH)
3812 UNID: 2200 ARQ-E 96/400 idling (either RFVI or RFVITT) (ML2)
3822 Unid: 2026 FSK 75bd/170 UNID System, sync, cont, ACF=0 (MC)
3830.5 British Mil 2031 Piccolo-12, crypto (MC)
3832.7 MOD Paris,F 2020 ARQ-M2 200bd Msg from RFFBBYM dircen procecurdef Paris to RFFVAY brigfrifor (French IFOR troups in Sarajevo, Mostar, Ploce, Vrapcici, Rajlovac and Hekom) (AB)
3861.2 Russian Mil 2024 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
3941 Unid: 2132 81-81 81bd/250 tfc (MC)
4002 YRR2: Bucharest Meteo, ROU 2235 RTTY 50bd Synops (AB)
4017 SNN299: MFA Warsaw, POL 1810 FSK Morse w/test tape, RY's & callsign. (JD2)
4028 Unid: 2117 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
4045 Unid 0140 PACTOR M7000 can't decode. (FH)
4101.5 NATO Mil 2118 PSK 2400bps UNID System (MC)
4163 Navy London,G 2238 RTTY 100bd Encrypted msgs (AB)
4167.9 Unid: 2024 FSK 150bd/400 UNID System, sync, cont, ACF=0 (MC)
4168.5 British Mil 2122 RTTY 75bd/850 "ry..ryvmgtcnjbh" lead-in, crypto (MC)
4173 ELSS4: TKH KAPITAN SPIVAK 0716 ARQ msg to NOVOSHIP UK Ltd with eta for Wilhelmshaven. login 10413 KASP. Vsl is ex UVRB. (HOOD)
4174.5 SXNU: MV RUBY 1755 ARQ msg to Avonmouth login 16939 SXNU. (HOOD)
4178 YLAY: mv Inzenieris Kreilis 1828 ARQ w/Lyngby Radio (AB)
4178.5 VTNT: M/V APJ SHALIN 0040 ARQ W/TLX. SQFA: M/T REKIN 0350 ARQ TLX IN PP.LOGIN 43185 REKIN. SNVY: M/T LANGUSTA 0405 ARQ TLX, FISH REPORT IN PP. (WT)
4179 UBUT: mv Tsemdolin 1907 ARQ msg to Novoship Co Russia (AB)
4180.5 WRGL: SS TRINITY 0355 ARQ W/TLX LOGIN 11266 WRGL (WT)
4182.7 mt Birdie 1919 ARQ clg VKXE (mv Marry) and msg to Eastern Mediterranean (AB)
4202.6 UCEE, Vessel: 1850 RTTY 50/170 w/UNID, order list for drinks, id: NIL TKS DE UCEE K (ANDL) (we show this as the Ro/Ro Ferry 'Sakhalian 9' -LOGS)
4210.5 IAR: Rome Radio 2023 ARQ w/CW Marker "IAR" and tuning burst. (DW)
4214 IDR2: Italian navy Rome,I 2147 RTTY 75bd Availability msgs (AB)
IDR2: Rome Naval, Italy 2230 RTTY 75/850 combined CARB IDR/IGJ, not parallel. IGJ is 100 baud. (JD2)
4216.5 IAR: Rome Radio 2025 ARQ w/CW Marker "IAR" & tuning burst. QRM fm SAB maritex. (DW)
4227 IGJ42: Italian navy Augusta,I 2146 RTTY 75bd Availability msgs (AB)

IGJ42: Italian Navy Augusta 2131 RTTY 100/850 CARB 'IGJ41 /IGJ42 /IGJ43 /IDR2 /IDR3lo /IDR8 (PB)
4232 Navy London,G 2246 RTTY 100bd Encrypted msgs (AB)
4259 NATO Mil 2026 PSK 2400bps UNID System (MC)
4271 CFH: Halifax, Canada 0219 FAX 120/576 wx map, "sig wx depiction VT1200" according to list. (BDS)
4301 NATO Mil 1936 PSK 2400bps UNID System (MC)
4307 GYA: Northwood, UK 0230 FAX 120/576 schedule. (LC)
Northwood Naval, GBR 0230 FAX 120/576 In the last four times I've received this chart it's been a different orientation presumably to reduce the boredom. (LC)
4482 BJZ25: Wuhan, CHN 1327 RTTY 75/425 meteo. (AB2)
4512 ETD: Adddis Abeba Air Ethiopia 1545 RTTY 50/425 MET (NOTAM)-(MS4)
4525 5ST: Antananarivo Meteo MDG 2200 RTTY 100/425 w/synoptic wx (off-air between txes) (ML2)
4542 UNID: 2300 ARQ-E 96/400 idling (either RFVI or RFVITT) (ML2)
4560 RLBxx: Moscow Met, URS UTC? FAX 90/576 unknown chart type - Middle East. (LC)
4610 GFA/GFE Bracknell Met, GBR 1300 FAX 120/576 to 1700, for a change. Most interesting period is from 1541z for an hour or so finishing w/another nice line in ice (20 minute chart) at 1602 (PINT21 EGRR) before going back to aviation charts... 120 / 288 and 120/576. (LC)
4615 NATO Mil 2028 PSK 2400bps UNID System (MC)
4813.7 'RXFKE': UNID German-MIL, D, 0837 RTTY 50Bd/850 testing to '2UA3'. (ANEU)
4827 Unid: 0551 ARQ sending selcall LCIP for several minutes, then off. (RB)
4843 Unid 1135 ARQ-E 72/400 idle (ED)
4846.2 UNID SUI-MIL-net, SUI, 1235 F1B 68.57Bd/85 into PSEUDO# encrypted tfc. after multiple 10 bit crypto preamble. (ANEU)
4971 Unid: 1754 ARQ-E 96 ngn idle bonn? (BvR)
4972.4 Unid: 1750 ARQ-E 96 ngn idle hamburg? (BvR)
4977.3 Unid: 1756 ARQ-E 96 ngn idle bonn? (BvR)
4979.7 Unid: 1758 ARQ-E 96 ngn idle bonn? (BvR)
5049.2 Portuguese Police 1805 FEC Comgerpsp 20021 msgs to cdbrg 20036 police portugal. (BvR)
5073 unid 1738 RTTY 50/500 tfc in Polish language, ended w/'ok qru zko' (PB)
5082.2 RFLI: Ft de France 1045 ARQ-E3 192/400 (IRT) to RFLIRT Cayenne, Controle de Voie, been here for 7 years, not in callbooks. (FH)
5099.7 'WS'+ 'T1': UNID Italian Packet net., 0749 PR-300Bd/850 messages in the clear. Mentioning satellite launch from Kourou/GUF. (ANEU)
5111.9 Unid: 2037 VFT: 3ch of 75bd/85 FSK UNID System, sync, cont, ACF=0 (MC)
5112.1 Unid: 1747 VFT: 3ch of 75bd/85 FSK UNID System, sync, cont, ACF=0 (MC)
5150 RLB: Moscow Met 0045 FAX 120/576 1 good chart from unidentifiable area plotted data sfc chart. (LC)
5154 USN MARS HF mailbox 0730 PACTOR w/NNN0GDE relaying tfc from NNN0CEI, USS Camden (AOE-2). (RB)
5180 BAA9: Beijing, CHN 1258 RTTY 75/850 meteo. (AB2)
5214.9 Unid 1100 unk 110/170 usually idle or encryption, thought to be FF in Pacific. (FH)
5265.5 MKK: Royal Air Force, London 2102 VFT: 2ch of Piccolo-6, eng ch "de mkk u be 55555ers pal kkk" (MC)
5265.9 MKK: Royal Air Force, London 2103 VFT: 2ch f Piccolo-6, crypto tfc (MC)
5292.7 Spanish Navy, Granada 2040 VFT: 2ch of 100bd/150 ALE System, ACF=38/76 (MC)
5315 BJZ27: Wuhan, CHN 1302 RTTY 75/850 meteo. (AB2)
5397.7 RFFP: MoD Paris, F 0520 ARQ-M2 200/425 w/"diffusion restreinte" tfc on Ch.B. (RB)
5402 Unid: 1759 ARQ idling in receive mode to 1805 & off. (RB)
5420 RFFWERM: 0815 ARQ-E 72 wkg/RFFW til 1100 (ANEE)
5457.1 Unid: 2044 FSK 200bd/580 UNID System, sync, cont, ACF=0 (MC)
5746 OLZ88: MFA Praha, CZE, 1245 IRA-ARQ 300.6Bd/400, message headers starting with : m[-Praha777777_7F7777777w, then binary data. (ANEU)
5747 Unid: 2113 RTTY 50bd/200 crypto headed "kriptograma weresex-673

fokstrot" (MC)
5773.2 HBD20: MFA Bern 1438 ARQ 5Lgs, ended w/')))) end of message' (PB)
5774 POL-EMB Berlin, D 1050 POL-ARQ 100 5-CRC; 5FGs to SNN299. (ANEU)
5804.7 UNID German AF, D, 09:13, ALIS Hi-speed PSK-bursts, ACK bursts of other party very weak. (ANEU)
5807 ZKLF: Auckland Meteo, NZ 1156 FAX 120/576 w/weak chart. (RB)
5843.5 MFA Helsinki, FNL 1221 F1B 301Bd/770, Packet-like burst mode. (ANEU)
5863 Russian Navy 2119 36-50 50bd/200 tfc (MC)
5865.7 'JU1C': UNID British MIL 1345 RTTY 75/850 fox test to 'EM40'. 'EM40': UNID British (?) MIL, 13:50, RTTY 75/850, fox test to 'JU1C' -- unstable transmitter, asking if 'JU1C' wants to go secure. (ANEU)
5895.7 'RXFKE': UNID German-MIL, D 1233 RTTY 50Bd/850 testing to '2UA3'. (ANEU)
6217 Unid: 1749 ARQ selcalling xdfq. (BvR)
6222 OST: Oostende radio 1743 ARQ vmvmvmvmvm. (BvR)
6237.7 Mv Superlady 31960 1800 ARQ supply list. (BvR)
6263 ELHW3: M/V WESTERN TRADE 0107 ARQ W/TLX (WT)
6264 UZXQ: TKH General Blazhevich 0100 ARQ Ukrianian 7,805 DWT bulk carrier, w/crew TG's to Mariopol Radio (MRU/MMF), is ex-UOVG, login 67823 UZXQ. UYAF?: TKH Kapitan Adgladze 0125 ARQ Ukrianian-flagged vsl, w/crew TG's to same (MRU/MMF), used UTAF for login, poss chg from Odessskiy Komsomolets? No info for Kap Adgladze. (RB) KCDK: GUS W. DARNELL 2337 ARQ WKG KFS W/PERS TLG. LOGIN 11643 KCDK (WT)
6265.5 UCNJ: TKG IGOR GRABAR 1755 ARQ BBXX to UCE. Vsl is ex UVNH. (HOOD) 3EIK8: ATLANTIC STAR 0105 ARQ W/TLX, ETA CRISTOBAL. (WT)
6267 OXGF4: MV SUSAN 0703 ARQ admin to OXZ. ITU gives as NAUTILUS. login 10177 OXGF4. (HOOD)
6272 Mv Mekhanik Brilin 1147 ARQ maritex mgs to Rotterdam abt Eta Tallin. (BvR)
6272.5 3FKE2: M/V Sanko Moon 0513 ARQ w/AMVER, bound Long Beach to Guaymas, is 37,664 DWT bulk carrier. (RB) ELNT6: M/V PEARL VENUS 0457 ARQ WKG NMC W/MSG TO PLEAD CONTROL. LOGIN 25154 PLVN. (WT)
6286.5 UFGG: TKH LADOGA 3 0636 CW admin from Km Egorov to UCW4. (HOOD)
6314.5 SAB: Goetenborg radio 0928 ARQ ww unid mv. (BvR)
6315.5 USU: Mariupul radio 1735 ARQ tlx tfc. (BvR)
6316.5 7TF: Boufarik radio 0836 ARQ sc dxtv. (BvR)
GKE3: Portishead radio 0926 ARQ wx to unid mv 0930 wx in fec. (BvR)
6317 UCE: Arkhangelsk radio 1812 ARQ ww uijp. (BvR)
6318 LGB: Rogaland radio 1830 ARQ tlx tfc. (BvR)
IDR3: IN Riome 1758 RTTY 75b igj41/igj42/1gj43/idr2/idr3/idr8. (BvR)
KLB: Seattle R Wash 0130 FEC ships trfc time chng h+35 (RT2)
6318.3 IDR3: Rome Naval, Italy 2210 RTTY 75/850 combined CARB IDR/IGJ, not parallel. IGJ is 100 baud. (JD2)
6318.5 OXZ: Lyngby radio 1130 FEC tfc lst also for mobile radio. (BvR)
6320 DAN: Nordeich radio 2000 FEC tfc lst. (BvR)
6320.5 FFT31: St. Lys 1800 FEC tfc lst. (BvR)
6322 OST37: Oostende radio 1846 ARQ vmvmvmvmvm. (BvR)
6323 SAB: Goetenburg radio 0943 ARQ sc ftmf. (BvR)
6324 WCC: Chatham radio 0446 FEC wx. (BvR)
6325 YLQ: Riga radio 1835 ARQ 6061 ylq autotlx w/ship 60628. (BvR)
6326.5 Unid: 1000 FEC Unid idle (alpha status) for 45 min no tfc. (BvR)
6327.5 UAT: Moscow Radio 1757 ARQ Moscow radio tlx tfc with urdj, at 1807 FEC w/tfc list. (BvR) WOM: Miami R Fla 1235 FEC SSB Raidotelephone Freqs, phone info. (RT2)
6329.5 VCT: Global wireless Tors Cove 1906 FEC Hello all stations message. (BvR)
6330 LZW: Varna Radio 1800 ARQ tfc to dkms. (BvR)
6333.5 IGJ43: Italian navy Augusta,I 1939 RTTY 75bd Availability msgs (AB) IGJ43, INy Augusta, I: 1305z RTTY 75/850 w/CARB msg: IGJ44 O /IGJ42 /IGJ43 /IDR2 /IDR3 O /IDR4 /IDR5 / (ANDL) IGJ43: Italian Navy Augusta 1650 RTTY 75/850 CARB availability IGJ44/IGJ42/IGJ43am/IDR2/IDR3/ IDR4po/ (PB)
6341.5 YLQ: Riga Radio,LVA 1935 RTTY 50bd w/mv Paveste in CW and RTTY (AB)
6348 HWN, FNy Paris, F: 1315/1555z RTTY 150Bd/850 RY/SG-mkr, id (ANDL)
HWN: FN Paris 2224 RTTY 150 ryryry. (BvR)
LOV3: (J.K. sez may be Rio Grande, ARG) 1025 RTTY 5L msg. (FH)
HWN: French Navy Paris 2040 RTTY 150 baud!! w/RYRYRY/SGSGSG. (RK)
6351.8 UNID: 1315 150Bd?/850 sounds like HWN/FNy on 6347.8 but encrypted.

(ANDL)
6358.5 PBC36, DNy Goeree, NLD: 0950 RTTY 75/850 w/CARB msgs like: 02A 04CAE 06BOO 08BOO 12BOO 17X 22X PBC (ANDL)
6382 PBB, DNy Den Helder, NLD: 1240 RTTY 75/850 carrier, all 8 sec. ID: PBB, all 5 min. UTC time but 1 min. too early: 1240 (at 1239z) (ANDL)
6384 Unid 0100 RTTY 50/425 encryption, worthy of monitoring for ID at start-up. (FH)
6394.8 TBA3, TNy Ankara/Izmir ?, TUR: 1240 RTTY 75/850 5LG's, NATO msg format, header: ...T12A...UUUUU...TBH...PP RTQGDBCY DE RXQMND, 1235 idle (ANDL)
6397 FUX: Le Port, Reunion 0050 RTTY 75/850 RY's then "FUX TESTING", not in callbooks. (FH)
6400 UON: BAKU RADIO 1838 RTTY 50/170 RYs and freqs as 6400/8500. (HOOD)
6425 CFH: Halifax 0130 RTTY 75/850 usually encrypted, try 0710. (FH)
6430 CFH: Halifax 0140 RTTY 75/850 usually encrypted. (FH)
6496 CFH: Halifax, Canada, 0037Z, 75/450 RTTY w/ wx reports (9/19/96)
6501.6 RFFXI: French Forces Bangui, CAF 0238 ARQ-E 96/469 (Bangui to RFFXIC Bouar) (presumed) idling. (RB) RFFXI: FF Bangui CAF 2125 ARQ-E 96/400 w/svce msg & operator chat to RFFXIC Bouar CAF (ML2)
6502 TBB6, TNy Ankara, TUR: 1625 CW mkr: VVV TBDJ DE TBB6 QAPVVV VVV. (ANDL)
6702 Unid: 2037 FSK 75bd/850 UNID System, reversals, ACF=64 lead-in, crypto, revs (MC)
6769 SNN299: MFA Warsaw 1456 POL-ARQ 100/262 w/qtc list (PB)
6782.4 Russian? 1959 UNID Fast PSK System (MC)
6800 Unid: 1441 RS-ARQ 228.5bd/170 tfc (MC)
6820 SOUD Station 2019 RTTY 75bd/500 5LGs ends "cfm gb sk" (MC)
6829 ROU-EMB Warszawa, POL 0730 ROU-FEC 218.32Bd/400 Polish press review, pages separated by 'varsovie'. (ANEU)
6830 PETRA Amman, JOR: 1740 RTTY 50/425 EE press (ANDL)
6832.1 Russian PTT 2020 OQPSK 1280bps UNID System (MC)
6840 'RXFKE': UNID German-MIL, D 1153 RTTY 50Bd/850 testing to '2UA3'. (ANEU)
Unid: 1949 RS-ARQ 240bd 8 tone tfc (MC)
6841 OLZ88: MFA Praha, CZE 1320 new PSK mode + CW chat in Czech. (ANEU)
6845 UNID: 1643 USB 6 tone mm, see July-WUN on 6848.0 kHz (ANDL)
6848 UNID; location UNID 1030 RTTY 75/500, encrypted tfc to 'KRM 32'(ANEU) Unid 1023 RTTY 75bd poss second channel of a duplex link. It started w/"RYRYRYRY KRM 32 KRM 32 KRM 32 RYRYRYRYRYR" then "GD UDGRAM HR ZOK ZNN K", a few more words, "ZAP 1 TKS" & then just a mark tone. KRM32: Unid RTTY 75/500 link setup with ZOK, ZNN and ZAP1 codes. Possibly the "other end" of the 6860 transmission. (CK)
6860 2HK, UNID: 0935 USB sx m Polish "Dwoieka Henryk Karol" (2HK) w/ "Ignazio Marian Xaver" (ANDL) Unid 1020 unk w/unk baud/500 shift.(CK) Unid: 1020 Unid digital transmission, 500 Hz shift, local in Athens, Greece. (CK)
6915 BAP46: XINHUA, Beijing 1830 RTTY 75/1000 "QRA DE BAP46 XINHUA BIEJING", RY's, then press in EE. (JD2)
6918.5 ECA: Madrid Met, ESP 0100 FAX 120/576 QWD(I?,1?)40 rebroadcast Bracknell chart FL340, 0115 QWD(I? 1?)30 rebroadcast Bracknell chart FL300, 0130 QWD(I,1)40 rebroadcast Bracknell chart FL240, 0210 QWA(I?,1?)40 rebroadcast Bracknell chart Atlantic FL240, short fades. Try after 0230 for the INM charts rather than all this upper air stuff but I'm usually in bed by then! (LC)
6961.9 Norwegian Embassy, Murmansk 1858 TWINPLEX-1n 100bd/400 Operator chat to MFA Oslo, selcal "KFMU" (MC)
6962 Petrojet, Mediterranean 1746 ARQ Activity reports, selcal "SUSF", "OKUX" (MC)
6963.8 RFLIGA: Kourou 1045 ARQ-E3 192/400 (IRT) to RFLIRT Cayenne, Controle de Voie, been here for 7 years, not in callbooks. (FH)
6972 YOG59: ROMPRES Bucarest, ROU 1555 RTTY 50/425 FF press (ANDL)
6974.9 TNL: Brazzaville (FRA) 0000 RTTY 50/340 FCBB meteo msgs, here for years, not listed in callbooks. (FH)
7333 Unid: 1430 Packet Xmsn clobbered by CHU (RM)
7350 BAF44: Beijing, China 1408 RTTY 50/850 meteo. (AB2)
7350.7 Algerian Emb. Tripoli 1421 COQ-8 26 "qsl quatre cccc". (DW)
7350.7 MFA Algiers 1405 COQ-8 26 Tfc in French - diplo press summary.(DW)
7379.5 MFA Sofia 1400 UNID 108.86bd F1B-FEC til 1430 (ANEE)

7535 Darwin Meteo 1448 FAX 120/576 wngs Typhoons YATES/ZAHE (TD2)
7542.7 Unid (still) 0140 ARQ-E3 192/400. (FH)
7595 AOK: USN Rota, ESP 0015 FAX 120/576 FSME LERT, 0030z OSME LERT, 0045z sfc wind / pres anal FNMOC vt1200z. At 2215 2345z NOGAPS(!) pics "no product available". (LC)
7595.2 AOK? unk 1900 FAX 120/568 AOK or it's replacement, // 9050.2. (JD2)
7606.7 RFHI: Noumea 0910 ARQ-E3 100/400 (HIJ) FF msg to La Tontouta, on regularly w/tfc to RFHJ for years, not in callbooks. (FH)
7614 RFFE? 0100 ARQ-E 192/170 (EHQ) to RFFH, not from RFFH, strong 0100+ but just won't ID for me, first logged 4 years ago & still not sure. (FH)
7616.1 Unid: 1927 FSK 300bd/200 UNID System, 3s bursts, ACF=17 (MC)
7625 poss HZN47: Jeddah Meteo 0220 RTTY 100/750 passing traffic as follows: 4F space 6f space followed by large number (apx 30 numbers). Hard to get exact count on last number group due to loss of copy due to interference caused by ANDVT signal on 7628. (DW2)
7629.7 Chinese Diplo 2009 4+4 tfc (MC)
7671.5 FDY: French Air Force, Orleans 1911 RTTY 50bd/400 "fdyfdyfdy test de fdy voyez le brick..." (MC) FDY: FAF Orleans 1452 RTTY 50/400 test tape "voyez le brick ...." (PB)
7678.5 HBD20/2: Swiss MFA, Berne 2014 ARQ 100bd/170 5LGs to Budapest "budapeam" (MC)
7680 Unid ''sweeper'' 1632 Sweeps over 8 freqs: 7680, 7690, 7700, 9185, 9310, 9332, 10120, 13430 kHz. Signal stays for 27 secs on each freq. Total time cycle: 4m6s (AB)
7696.9 Unid: 1908 81-81 81bd/500 tfc (MC)
7719.5 Unid 0120 unk J.K. sez "T-PLEX 6 tones at 1736", can't read it, at the same time, same type signal on 7716.5 but louder. (FH)
7760 RDH77: Arkangelsk Met, Russia 1437 RTTY 50bd/1000 "ch ch ch de rdh-77 rvz-73 46464646..." (MC)
7784 NRR? PR? unk 1840 RTTY 75/850 w/EE KAWN wx. (FH)
7790 Unid: 1909 81-81 81bd/200 tfc (MC)
7795.5 MKD: Royal Air Force, Akrotiri 1944 VFT: 2ch of Piccolo-6, eng. ch "gep de mkd zub 1934z u ready?" (MC)
7795.9 MKD: Royal Air Force, Akrotiri 1945 VFT: 2ch of Piccolo-6, tfc ch idle (MC)
7819.9 Unid: 1911 FSK 150bd/400 UNID System, sync, cont, ACF=0 (MC)
7823.7 Egyptian Embassy, Tunis 1630 ARQ ATU-80 MSGs to MFA Cairo marked "jg hlgp" (MC)
7831.5 5ST: Antananarivo 2330 ARQ-E 48/400 (TNC) meteo msgs, use to be 7834.5. (FH)
7859 FDI22: French Air Force ARQ Aix CW w/ ID marker.(PT)
7880 DDK: Hamburg Met, GER 1030 FAX 120/576 schedule 1030z. 1320z PYMZ98 sfc chart with plotted data "BODEN" 1353z PYMZ98 plotted data "BODEN" 1810 atlantic significant event surface chart. (LC)
7909.7 Unid: 1910 ARQ Drilling report? Simplex comms. Unid: 1725 ARQ Text in EE, mentions "needing jcox back here tomorrow to do report on vibes before he goes in taxi Thursday morning to Tripoli". Further clue to drilling company in Libya. Unid: 1910 ARQ Selcals TRIP to Tripoli from S3. Time 2110 (local). (S1 & S2 mentioned previously). References to drilling and surveying. Signed Stuart. Unid: 1830 ARQ Short burst of selcals KKKX at 1830. Short burst of selcals QQQQat 1853 then TRIP. Also USB calls to Tripoli on 7908.(DW)
7916 PIAB 1653 FEC-A 96 GG sports nx. (BvR)
DGG91L2: PIAB BONN 0640 FEC-A 96/400 Press in German (DW)
7930 GYU: RN Gibraltar 1818 VFT PICC Two channel piccolo vft on USB.(DW)
7931.5 GYU: RN Gibraltar 1819 VFT PICC 7931.510. Eng chan 1 in vft "de GYU we dropped syn this end and gashed in".(DW)
7931.7 MFA Cairo 1920 ARQ IRS mode. Constant space between bursts. Selcals TVVX (Algiers)then offair.(DW)
Egyptian MFA, Cairo 1940 ARQ 100bd/170 Calling selcal "TVVX" (MC)
7931.9 GYU: RN Gibraltar 1822 VFT PICC 7931.910. Chan 2 in vft. 6 tone online encrypted. (DW)
7946.5 Unid: 0647 RTTy 100/370 Met traffic SMDL EDZW, FCBX EBBR, SADN ETGT, SANL EHWX. Unid: 1802 RTTY 100/370 Started with some RY's. Callsign - if was - missed. Brief met tfc then offair. (DW)
7961.1 GXQ: London (to 7962.9) 2300 VF 50/170 channels. (FH)
7971.7 FF ? LOC 1828 ARQ-E 96/400 8RC. Betas. No tfc. (DW)

RFFXIW: (somewhere in Bangui area) 0039 ARQ-E 96/400 "ZIC XZW000 ZID XXW003", the latter C.I. refers to "00 Favieres de RFFIW", It did not give callsign of Favieres, probably RFFXCC. Another day another partial garbled at 0038 FF msg "DE RFFX...RFFXIWHJ RFFXI RFFXIW". The rest garbled, no C.I. was readable so no assurance it was from RFFXED. To date we can say this is from or to RFFXED, loc unk, C.I. XZW. The other C.I. XXW belongs to Favieres. Since the French military computer net sends mirror messages back to the sender, we do not know for sure that this freq is RFFXIW. (FH)
7975 SPW: Warsaw Radio 1820 FEC Polish ship press. (DW)
7983.7 poss RTFJ: FF Dakar 0244 ARQ-E3 48/400 Copied end of message & into idles. (DW2) RTFJ: FF Dakar, Sen 0110 ARQ-E3 48/387 ngs/9ngs presumed. (RT2) (probably correct with c/i TJF - LOGS)
7987 U.S. Navy, unk loc 1020 RTTY 75/850 encrypted. (FH)
7997 Unid: 2350 RTTY 50/976 w/YYYYY, SOH299 50/425 has been logged here). (FH)
8011.8 REB566***: Spain? 0623 300bd/200 Packet Attempting connect to REY211 (MC)
8011.8 REY211***: Spain? 0622 300bd/200 Packet Beacon announces "Estancia Pehmajo" (MC)
8012.2 Russian Mil 1430 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
8012.6 Unid: 2150 ARQ w/EE tfc. (FH)
8013.4 Algerian Embassy, Delhi 2128 Coquelet-8 13.3bd MSGs in FF "jr/bsr alger de delhi je rle" (MC)
8014 Unid: 1844 81-81 81bd/200 tfc (MC)
8020 HMF85, KCNA Pyongyang, KRE 1755 RTTY 50/170 EE press (ANDL)
8027.1 Romanian Embassy 2052 ROU-FEC 218.3bd/400 crypto (MC)
8028 V5G***: Romanian MFA, Bucharest 2012 ROU-FEC 164.5bd/400 (Bitmask=24) MSGs in RR to many embassies (MC)
8031 RFFX: 1800 ARQ-E 184.6 wkg/RFFXQA til 0430 (ANEE)
8035.5 British Mil 1100 VFT: 4ch of Piccolo-6, eng ch idle (MC)
8035.9 British Mil 1110 VFT: 4ch of Piccolo-6, crypto (MC)
8036.3 British Mil 1110 VFT: 4ch of Piccolo-6, crypto (MC)
8036.7 British Mil 1100,VFT: 4ch of Piccolo-6, tfc ch idle (MC)
8043.1 Russian Mil 1732 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
8049.7 Unid: 2130 RTTY 50/875 to 0100 w/a row of RY's, then a row of TEST over & over, Occasionally for variety a partial row of VVVVV. (FH)
8050.2 poss RFQP: FF Djibouti 0255 ARQ-M2 (200/356) idles. (DW2) RFQP: FF Jibuti, Dji 0058 ARQ-M2 200/170 idle. (RT2) (correct RFQP: Djibouti c/i QPC - LOGS)
8071.5 Unid: 1933 RS-ARQ 228.7bd/150 ALIS bursts every 3 minutes (MC) British Mil 2050 VFT: 2ch of Piccolo-6, eng ch idle (MC)
8071.9 British Mil 2051 VFT: 2ch of Piccolo-6, crypto (MC)
8072.2 Russian Mil 0625 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
8072.9 Unid: 0100 unk 100/460 scratchy sounding pulses but no ID. (FH)
8080 NAM: USN Cutler 2051 FAX 120/576 Various charts w/m/path fading.(DW) NAM: Norfolk, VA 1915 FAX 120/576 satellite wx map. (BDS) NAM/NAA USN Norfolk/Cutler 0000 FAX 120/576 GOES sat pic normal shift but no clouds. OTSR/MET pics now narrow shift!! (LC) (we think proper ID of this station is: NAA, USN Cutler, Me w/NAM wx fax products - LOGS)
8101.5 Unid: 1811 FEC w/EE wx, strong, ends 1812 & off, wx ship? (FH)
8102.5 NSY: USAF Sigonella, Sicily 1900 B9W voice on LSB, VFT-6028 on USB, wkg AJE (11508). (JD2)
8108.2 UNID 0259 ARQ-M2 (200/340) idles. (DW2) RFFX?: MOD Paris, F 0045 ARQ-M2 200/384 idle. (RT2) [usually RFQP: Djibouti c/i QPF - LOGS]
8133 Unid: 2054 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
8148 MFA Warsaw,POL 0844 POL-ARQ 100bd Claris and coded msgs to various embassies (AB)
8170 Unid: 2202 FSK 75bd/850 UNID System, reversals, ACF=64 lead-in, crypto, revs (MC)
8182 INTEL Athens, GRC 16:50 ARQ-E 96/190 unusual activity on the eve of the Greek parliamentary elections, QSX 10951 kHz for BND Liaison Service. (ANEU) German Forces? 1804 ARQ-E 96bd/170 crypto (MC)
8184.5 Unid: 2007 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
8192 9MR11: Johor Bahru Naval, Malaysia 1700 RTTY 75/850 broadcast ID MRB. (JD2)

8231.5 Unid: 2204 TT2300b 100bd idle (MC)
8236.7 Chinese Diplo 2028 4+4 tfc (MC)
8243.5 Unid: 1734 TT2300b 100bd idle (MC)
8316.7 Chinese Diplo 2030 4+4 tfc (MC)
8377 EQPV: Iran Ashrafi 0123 ARQ engineering report to Tehran via Portishead Radio, selcall 59237. (AB2)
8377 ELKV8: Bali Star 0240 ARQ lovey-dovey tlx from crewperson to gal(?). P3IO3: Evrimedon 0315 ARQ re problem w/vsls's fresh water, selcall 00629. SQNK: General Grot-Rowecki 0441 ARQ tfc. URMA: Skovortsov-Stepanov 0152 ARQ req wx info from Portishead Radio. (AB2) M/V Nand Anant 2008 ARQ tfc to KQQV (Portishead Radio) w/msg for Cerrahgil Ship Agency, Istanbul (PB)
8377.5 KSBK: Arco Alaska 0000 ARQ msg check. SVCF: Aeolic Reefer 2334 ARQ OBS msg, selcall 16828. WTST: Lihue 1753 ARQ vsl going on a 30 day voyage to Asia. (AB2) KPSB: SS CORONADO 0418 ARQ WKG KFS W/QRG RPT. LOGIN 10749 KPSB. (WT)
8378 9HDA3: MV LINA 0656 CW msg abt bulk wheat cargo via TAH. (ITU name is "DINA", but copied several times as "LINA/9HDA3"). (HOOD) VRIY: BT Nestor 0205 ARQ arrival report to BT Ship. EQPP: Iran Abozar 1327 ARQ tfc to Tehran via Perth Radio, selcall 59231. 3FZW5: Pacific Mayor 1413 ARQ AUSREP/FR msg. VVGQ: Kanpur 1428 ARQ AUSREP/FR msg, selcall 23647. VVJS: Devprayag 1233 ARQ ETA Vizag. (AB2)
8379 ELEV8: Lircay 0107 ARQ w/tlx via WLO re departed Norfolk (I assume Va, U.S. by signal). (RB) 9MCF5: M/V BUDI HUDA 0110 ARQ W/TLX LOGIN 61698 TOSCA. (WT)
8379.5 JLPY: Taisei Maru 1136 ARQ Jasrep msg. (AB2) ELNS4: M/V Pacific Star 2323 ARQ Liberian- flagged 10,564 DWT reefer (Star Reefers) w/tlx re bound Bandila, Manila. (RB)
8380.5 ESBI: Piktla 0145 ARQ posn rept 15.40S/77.10W -off the coast of Peru. YEVX: Dobon Solo 1249 ARQ tfc unid lang. C6CH3: Smit Lloyd III 1305 ARQ tfc. OVYC2: Svendborg Gate 1308 ARQ tfc. (AB2) IBJG: M/V Orinoco 2300 ARQ w/AMVER tlx. (RB)
8381 ELIG9: Arctic Ocean 0151 ARQ tlx for Ecline, Miami, selcall 24743. ELRU3: Seaboard Universe 1308 ARQ OBS msg. WRLY: Green Ridge 1247 ARQ unclass tfc to Bayonne, London & Washington, ETA Bremerhaven pilot. UWFU: Viktor Kournatovskiy 1446 ARQ anchored 35 NM from Fairway buoy awaiting instructions from Houston pilot station on VHF. (AB2)
8381.5 3FXD4: O. (Ocean?) Spirit 1302 ARQ tfc. ESAN: Valkla 0048 ARQ tfc for Hamburg & Paris outbound Campo w/512 MT of logs (must be for WUN Logs Column -hi!), listed as fact trawler, converted? (AB2) YLBF: TKH Ivans Kulibins 2128 ARQ w/traffic to Riga Radio, login 60633 YLBF. (RB) UUEI: MV Sokol 1500 ARQ w/tfc for Dubai logoff 67747 UUE (TD2) YLAO: MIKHAILS LOMONOSOVS 0115 ARQ WKG YLQ, RIGA, LAT. LOGIN 60619 YLAO.(WT)
8382.5 SQFA: Rekin 0244 ARQ stowage report, selcall 43185. ENZR: Valentin Zolotarev 0336 ARQ tfc to Odessa, used old c/s UBPE at msg end w/selcall 55828. ZCBD9: Chiquita Frances 1213 ARQ tfc. (AB2) ELKV3: M/V Pacific Runner 0237 ARQ 17,830 DWT Ro/Ro cargo vsl, w/tlx via KPH re annual inspections. 9GYU: M/V Keta Lagoon 0130 ARQ 16,667 DWT dry cargo vsl (Black Star Line) w/tlx re parts needed, login 19402 9GYU. (RB)
8383 USLG: Cherkassy 1318 ARQ crew TG's. UBVH: Osip Pyatnitskiy 1349 ARQ vsl bound for Singapore. (AB2) ELNY5: D.S.R. Senator (Liberian) ARQ advising finished loading cargo..(PT) SVCF: M/V AGOLIC REEFER 0056 ARQ W/TLX LOGIN 16828 SVCF. (WT)
8383.1 EUJV: Rybak Kamchatkj 1139 RTTY 50/170 crew TG's after RY's (46's) & DE EUJV to UFZ. (AB2)
8383.5 UPQY: Sodruzhestvo 1414 RTTY 50/170 RY's & DE UPQY to UFZ. (AB2) UZNV: RTKS Konstruktor Kokin 1953 RTTY 50/170 to Sevastopol Radio w/TG's from crew (PB)
8384 UVBX: Lakhta 1240 ARQ tfc for PA Ltd Tokyo. (AB2) 7TGE: M.V. Mostefa Ben Boulaid (Algerian) ARQ ordering stores..(PT)
8384.5 C4ZB: Coryton 1353 ARQ partial posn report, garbled text, selcall used 29636. UZXW: Geroi Novorossiyska 1358 ARQ ETA Baton Rouge, selcall 55144. PGJL: Norcape 0404 ARQ revised ETA Freeport due to heavy rain, is this ex-C6LU7? (AB2)
8385 SHIP "PELLA/J4FC" 1228 ARQ Traffic -status and eta Alexandra. (DW)
8385.5 WBN2073: Rig Engineer 1330 ARQ monthly report. KSHF: Guadalupe 0242

ARQ AMVER msg. (AB2)
8386 UBIR: Matvey Kuzmin 0318 ARQ crew TG's to UFH. UOQY: Butovsk 0347 ARQ crew TG's. KPJC: Cornucopia 1159 ARQ obs msg. (AB2) KIBJ: SS GREEN HARBOUR 0130 ARQ W/BBXX (WT)
8386.5 C6BK6: C.R. Marseille 1319 ARQ msg check, selcall 61440. (AB2)
8387 ELSK2: Unan Avetisyan 0029 ARQ c/s & vsl name only. 9GYU: Keta Lagoon 1418 ARQ vsl bound for Houston w/cargo of paper reels, selcall 19402. (AB2) EOLK: TKH VASILIY NAZAROV 0705 ARQ admin to OXZ. login 55930 EOLK. Vsl is a "MORSKOY" type s/r cargo ship. (HOOD) BOAD: M/V MIN HE 0110 ARQ WKG KPH, RX ONLY. (WT)
8387.5 SQGD: Wlocznik 0154 ARQ admin/payroll tlx. SQMO: Aquarius 0208 ARQ crew payroll tlx. DVRD: General Tirona 1511 ARQ tfc for Hong Kong, Singapore & Montevideo. (AB2)
8388 SFPM: M/V Joh Gorthon 0001 ARQ w/BBXX wx obs tlx via SAB w/login 26103 SFPM. NRCB: USCGC Eagle (WIX-327) 1536 USB wkg NMN w/unclass traffic, posn 3609N/06729W, this is the CG's 3 masted training barque, "America's Tall Ship" & she was returning home from an extended tour of European ports. VGLN: M/T Irving Artic 1610 ARQ 38,281 DWT oil tanker (Kentline) w/BBXX wx obs via NMN. (RB) UERJ: M/V PETR SHMIDT 0417 ARQ LOGIN, 54961 UERJ, QRU/QRU.(WT)
8389.5 LAII2: M/V Adriatic 0023 ARQ 27,271 DWT bulk carrier, w/departure tlx for Port Canaveral, bound Port Everglades (Fl) w/cargo of 12,256.37MT of shredded scrap. C4XH: M/V Derby North 0334 ARQ 64,491 DWT bulk carrier, w/tlx re funds, login 29323 DNORTH. (RB)
8390 LAUG4: Brunto 0241 ARQ tlx re injured crewmember, selcall 26215. P3TH6: Hilon of Sparta 0313 ARQ garbled text selcall 29639. ELPG8: James N. Sullivan 2356 ARQ tfc. (AB2) C6LX6: M/V Doryforos 0220 ARQ 33,311 DWT dry cargo vsl, w/tlx reporting loaded w/13,000 MT of cargo, login 19402 9GYU. (RB)
8391 YLAQ: TKH Vasiliy Fesenkov 2251 ARQ w/crew TG's to Riga Radio, login 60621 YLAQ. (RB)
8392 P3HR2: M/V Belgrano 1518 ARQ 69,000 DWT bulk carrier, w/tlx for ETA, login 56188 P3HR2. (RB)
8392.5 9HMX3: TK Novomir 1 0100 ARQ w/NVRTLG+ crew TG tfc. ELNJ5: TK Nagatino 2156 ARQ Liberian-flagged 47,067 DWT tanker w/crew TG's to Novorossiysk Radio, login 24472 NAGA, this is ex-UNWJ, TK Nagayevo. UBLA: TKH Mekhanik Slauta 2201 ARQ w/NVRTLG crew TG traffic to Novorossiysk Radio, login 54970 UBLA. UVLQ: TKH Marshal Zhukov 2209 ARQ 59,638 DWT bulk carrier, w/tlx re info for agent in Quebec, Can, from master KM Gienko, login 54829 UVLQ. UJEK: TK Marshal Chukov 2216 ARQ 67,980 DWT tanker, w/crew TG's to Novorossiysk. (RB)
8393 3ELK9: Ever Cheer 1403 ARQ ETA Yantai, selcall 42978. BPCP: Da Qing 74 1416 ARQ tfc via XSG. BPFE: Jian She 5 (tanker) 1441 ARQ tfc via XSG, selcall 20141. (AB2)
8394 C6RT: Celtic Sea 0307 ARQ tfc. C6DJ: Bongo Danielson 1315 ARQ tfc, selcall 61733. KLEZ: Overseas Arctic 1434 ARQ AMVER msg. 3ELF9: Doctor Lykes 1439 ARQ tfc. (AB2) P3XH3: M/V Fortune 0105 ARQ w/posn tlx, 2801N/05923W. GBPP: Union St Angus 0150 USB w/login for msg ck. C6LV2: M/V Mico 0215 ARQ w/tlx re enrt Houston w/372 steel bars of 126 MT. (RB) P3AB3: M/V ATLANTIS TWO 0140 ARQ W/TLX LOGIN 01718 ATWO.(WT)
8394.5 PQAB: M/V Frotamerica 0302 ARQ 36,130 DWT Brazilian-flagged bulk carrier, w/tlx for ETA Santosa, Brazil. (RB)
8395 3EQE9: Xin Hui 1406 ARQ tfc for Hong Kong & Singapore, vsl loading cargo of rice. 3FBP5: Golden Yang 1431 ARQ tlx for needed supplies. (AB2)
8398.5 SCFV: MT MATVIK 1615 ARQ to SAB (berthed Le Havre). (HOOD)
8399 SQGX: MT OTOL 0450 ARQ W/TLX IN PP (WT)
8399.5 UVDD: TKH KAPITAN DZHURASHEVICH 1725 RTTY 50/170 admin from Km Temkin to UUI. (HOOD)
8400.5 UYBD: TKH NOVORZHEV 0653 RTTY 50/170 admin to Istanbul (in EE) via USO5. (HOOD) SNVY: M/T LANGUSTA 0355 ARQ WKG SPW WARSAW W/FISH RPTS FOR SQGS, SQGD, SQGX AND SELF. (WT)
8401 UAWA: ZERNOGRAD (AG-1337) 1500 RTTY 50/170 admin from Km Volkov to RKLM. Vsl is ex UVTI. (HOOD)
8401.5 ESCP: FT HOBULAID 0655 RTTY 50/170 msg to Torshavn via UIW. (HOOD)
8402.5 UIAN: MKRTM DUSETOS 2135 RTTY 50/170 admin from Km Medvedev to UIW. (HOOD)

8402.5 UHIY: AMURSKIY BEREG 0840 RTTY 50/170 crew TGs to Khabarovsk and Vlad via UIW. (HOOD) USJZ: PB Sergey Vasilisin 2044 RTTY 50/170 Ukrainian 'floating base' (Plavuchaya Baza -PB) vsl, w/admin TG from KMD Krasnik to Murmansk Radio. UBOW: TR Penzhinskiy Zaliv 2143 RTTY 50/170 13051 DWT refrigerated fish carrier, w/crew TG's to Vladivostok radio (VLD/VTF). UEMP: RTMS Malta 2258 RTTY 50/170 Russian Rybolovnyy Trauler Morilzhnyy (RTMS, or super fishing trawler/super freezer vsl), w/crew TG's to K-grad. (RB)
8403 UVEM: TKH ONEGA 1008 RTTY 50/170 admin from Km Kulbin to St Ptrbg. (HOOD) UQQT: RTMKS Pavel Kutakhov 2040 RTTY 50/170 Ukrainian stern ramped super fishing trawler/super freezer, w/RYRY/DE UDK-2, & w/tfc to Murmansk Tralflot using hull#/ID MA-1819. (RB)
8403.5 ESCP: FT HOBULAID 0705 RTTY 50/170 msg for Torshavn via UIW. UNOF: RTMS ALEKSEY GRACHYEV 0648 msg for Torshavn from Km Kovalev via UIW. (HOOD) UVIF: RTMA Peredovik 0429 RTTY 50/170 Ukrainian Fishing Trawler, Freezer, Atlantic Class (Rybolovnyy Trauler Morilzhny Atlantik -RTMA) w/RYRY/DE to URL, & w/"C51" report to same. EORP: RTMA Tavrida 0452 RTTY 50/170 Ukrainian Fishing Trawler, Freezer, Atlantic Class (Rybolovnyy Trauler Morilzhny Atlantik -RTMA) w/RYRY/DE to URL, Sevastopol rdo, & w/"C51" report to same, this is app the ex-ESJS. UBRJ: TR Ulbanskiy Zaliv 2142 RTTY 50/170 9,360 DWT Russian reefer/fish carrier, w/20106 report (VLD/VTF) to Vostoktransflot (VTF) c/o Vladivostok Radio. (RB)
8404 URWM: TKH IZMAIL 1012 CW wkg unknown station as "M/V IZMAIL/URWM" w/eta for Thessaloniki. (HOOD) UVEZ: RTMKS Leonid Galchenko 2054 RTTY 50/170 Ukrainian stern ramped super fishing trawler/super freezer w/crew TG's using hull#/ID MA-1821. (RB)
8405 UTTW: Professor Kaganovskiy 0316 RTTY 50/170 crew TG's. (AB2) URRR: TKH Andrey Upits 2052 RTTY 50/170 Ukrainian dry cargo vsl, w/DISP-1 report, admin TG to CLA Marina (Cuba) re ETA Seville Road w/3080 MT of wheat in bulk, from master KM Polunikfev. (RB)
8407.5 UFJI: NIS Akademik Mystislav 2211 RTTY 50/170 Keldysh, Russian research ship, w/RYRY/DE to UIW, then w/crew TG's home. ESMD: RTMS Kormoran 2234 RTTY 50/170 w/RYRY/DE to UIW, K-grad, then w/admin TG's addressed to a fax number, Tallinn, EST, using hull#/ID RTMS 7535/Kormoran, the T/N Ilyichevets 1 is referenced. (RB)
8408 LZDT: MV ADALBERT ANTONOV 2114 CW Bulgarian bulker w/crew TG to Varna via LZW42. (HOOD)
8412 UQQT: PAVEL KUTAKHOV 0719 RTTY 50/170 crew TGs to UDK2 using hull MA-1819. (HOOD)
8412.5 EOJF: RTMS Bagrationovsk 0124 RTTY 50/170 Russian stern trawler, w/RYRY/DE to UIW, Kaliningrad Radio, & w/admin TG's from master, KMD Lopatin, this c/s is listed as chg'ed to UAME in ITU, however EOJF is still used in RY marker (RB)
8418 IAR: Rome Radio 2030 ARQ w/CW Marker "IAR" and tuning burst. (DW)
8419 VIP33: Perth Radio 0813 ARQ w/CW Marker "VIP" (DW)
8419.5 WLO: Mobile 0100 ARQ sitor free w/CW mkr. (BDS)
8420 FFT41: St.Lys Radio,F 0842 ARQ w/CW marker (AB)
8421.5 LZW44: Varna Radio 1300 ARQ w/CW Marker "de LZW LZW". (DW)
8425 FFY43: ST Lys Radio 1235 ARQ Working Pella/J4FC giving QSLs. Return to marker "FFT" and tuning bursts. (DW)
8429.5 IDR4: Rome Naval, Italy 0915 RTTY 75/850 combined CARB IDR/IGJ, not parallel. IGJ is 100 baud. (JD2)
8430 EAD: Madrid 1945 ARQ sitor free w/CW mkr. (BDS)
8435 VCT: Tors Cove Radio NF 1944 ARQ w/CW-marker (PB)
8465 Unid: RTTY 100/838 w/ encryption..(PT)
8466 UIW: KALININGRAD RADIO 1527 RTTY 50/170 tfc relay from EVED: RTM DIONIS to UBHN: BATM LAZURNYY and crew TGs for UNXI: BATM M KRYLOV. UIW: KALININGRAD RADIO 0953 CW tfc for 3FIR3: BALTIJAS CELS. Vsl is a fish carrier, ex BEREG BALTIKI. Same at 1301 CW ID, tfc list and freqs in blocks as a/ 8466/12973/17152, b/13054/16927/19724.4, ... & phone 8764/12356/16531/17311. (HOOD)
8478.5 FUF: FN Ft De France 0040 RTTY 75/850 Marker idling letter shifts the RYs SGs figs "de FUF". (DW)
FUF: Fort De France 0120 RTTY 75/847 VVVV de fuf 0-9/FK/QRV/KKK (RT2)
8488 unid 0725 398.27 bd/703 shift, unknown system (PB)
8503.9 NMG: USCG New Orleans 2147 FAX 120/576 Unable determine land area. (DW)

8510.7 unid 0805 ARQ-E 96/395 idling (PB)
8538 6WW: Dakar 0945 RTTY 75/850 le brick. (FH) 6WW: French Navy Dakar 0815 RTTY 75/850 testing tape "voici testing de la station six whisky whisky" (PB)
8540 USU: Mariupol Radio,UKR 1504 RTTY 50bd Wx (AB)
8646 FUJ: FN Noumea, NCL 1255 RTTY 75/841 1.5 stopbit de fuj testing ryryryryry test strip p/u at 546- 676 still tx when i changed freq. (RT2)
8677.5 UGC: Sankt Petersburg Radio, RUS 1750 ARQ w/CW-id UGC (ANDL)
8884.9 unid 2010 RTTY 47.6/500 seems to be a Korean Embassy station or MFA Pyongyang. msg starts w/"mf72/62 947 17 05351" then going into 5Fgs 17 = number of groups-----^ In the clear is likes to be phonetic Korean e.g. "zosenzunggqang tongsinqeun zosenqeui haidangqanzen gigoanqeise" next msg begins w/"nr 0151 bl 03351 chugzengen. pyengqyang. zoqingugqeui choigo" etc. etc. (PB)
8885 Unid: 1448 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
8918.3 Unid: Prob Egyptian Embassy 2208 ARQ sending 5LG's. (RB)
8918.7 MFA Cairo 1745 ARQ wkg/Embassy Paris w/off line cipher (ANEE)
8996 NATO Mil 1729 Link-11 tfc (MC)
9050 NSY: USN Catania Sicily 0940 FAX wx maps. (CK)
9066 POL-EMB Moskva, RUS 1050 POL-ARQ 100 5-CRC, msgs from St. Petersburg & Minsk to various Polish locations. (ANEU)
9080 NAM: Norfolk VA 1915 FAX 120/576 satellite wx map. (BDS)
9084.8 Unid 1230 ARQ-M2 128.5/100 idle, CCIR-342 (ED)
9098.5 Unid: 1509 FSK 150bd/850 UNID System, sync, cont, ACF=0 (MC)
9102.2 Russian Mil 1108 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
9102.7 Egyptian E, Khartoum 1751 ARQ 5LGs "from boustan khartoum to khargia cairo". (MC)
9104 Unid: 1806 RTTY 50bd/400 end of a news report (MC)
9108 V5G***: Romanian MFA, Bucharest 2116 164.5bd/400 ROU-FEC, crypto (MC)
9110 NMF: USCG Boston, MA 2200 FAX 120/576 2 part sfc anal signed by forecaster Lindquist, at 2227 GOES-8 sat pic, 2301 looks like the NOAA product and not Intellicast but I might be wrong. (LC)
9113 MKD: Royal Air Force, Akrotiri 2110 VFT: 2ch of Piccolo-6, eng ch "gep de mkd zub 2115z zui to data cct" (MC)
9113.4 MKD: Royal Air Force, Akrotiri 2109 VFT: 2ch of Piccolo-6, crypto (MC)
9114 HGG31: MTI Budapest Hungary RTTY 50/425 w/ RY's and ID. (PT)
9126.7 MFA Cairo 1800 ARQ wkg/Bonn til 1900 (ANEE)
9153.9 D4B: Amilcar Air, Cape Verde Is. 2124 RTTY 50bd/850 "ryryry... nnnn de d4b d4b d4b testing" (MC)
9186.7 Egyptian Embassy, Algiers 1830 ARQ 100bd/170 ATU-80 MSGs "jg kdqikef" to MFA Cairo (MC)
9192.5 5ST: Antananarivo Air MDG 1110 ARQ-E3 48/400 w/AFTN tfc,1120 check msg to 3BZ Plaisance MAU (was on 9195) (ML2)
9199 Unid: 1832 TT2300b 100bd tfc (MC)
9241.7 Egyptian Embassy, Algiers 1757 ARQ 100bd/170 ATU-80 MSGs and 5FGs "from boustan alger" (MC)
9242 INTEL Athens, GRC 1650 ARQ-E 96/190 unusual activity on the eve of the Greek parliamentary elections, QSX 10951 kHz for BND Liaison Service, Athens later moved to 8182 kHz. (ANEU)
9288.1 MFA Rome 0330 RS-ARQ 228.7 wkg/Embassies Madrid, Lisbon? til 0415 (ANEE)
9294 Unid: 1927 FSK 75bd/200 UNID System, idle on reversals (MC)
9317.6 NRK: USN Keflavik 2059 FAX 120/576 Various charts. Satellite pix at 2200z for USA/Carib/N Atlantic. (DW)
9319 NRK: Keflavik UTC? FAX 120/576 just discernable above noise. My winter
choice for this ute is: (up till 0000z 10865 (1st) 9319 (2nd) after 0000z 8080(1st) 9319(2nd - variable) 3357 (3rd). (LC)
9337.8 MFA Beijing 1815 QAM til 1900 (ANEE)
9338.5 Unid: 1857 RS-ARQ 240bd 8 tone tfc (MC)
9339.3 British Mil 0641 VFT: 3ch of Piccolo-6, crypto tfc (MC)
9373 MFA Moscow 1800 CROWD-36 40 tfc til 1815 (ANEE)
9380 MFA Paris 0745 FEC-A 192 wkg/Mil attaches Prague, Washington til 1000 (ANEE)
9939.7 Piccolo at 1910 can't decode. (FH)
9946.5 Madrid Spain 0022 Tor-7B 100/140 10 lg's, Spanish embassy traffic to

San Salvador (ED)
9967.7 LYNX 2200 ARQ w/CW ID w/sitor ready signal, one callbook says Abuja, Nigeria, can be hrd on several freqs, but never w/tfc here to verify location. (FH) (Day Watson recently reported this to be an internal Nigerian gov't net, but NOT Nigerian MFA who use FEC-A, Operates at last count on 5861.7, 7821.7, 9967.7, 10231.7 & 11198.7, look for selcals beginning XX.. and for routing indicators beginning OR... & place names often as three letter abbreviations eg, abj Abuja, bnn Benin City, jos Jos, & tfc in EE, X marks stop, or offline encryption -LOGS)
10000.5 British Mil 1750 VFT: 2ch of Piccolo-6, idle (MC)
10000.9 British Mil 1749 VFT: 2ch of Piccolo-6, idle (MC)
10026.3 Unid: Prob Egyptian Embassy 2225 ARQ idling in receive mode. (RB)
10026.7 Unid: 2110 ARQ also FEC, 2110 onward, overlooked for a long time by most everybody. (FH)
10031.7 Egyptian MFA, Chile 0046 ARQ some arabic, mostly IRS (ED)
10034.7 Egyptian Embassy, Paris 1847 FEC 100bd/170 ATU-80 "jg ykfsp" after "fmfmfmfm" to MFA Cairo (MC)
10036.7 MFA Cairo 1645 ARQ wkg/Embassy Nouakchott til 2000 (ANEE)
10061.7 Unid 1816 ARQ Egy diplo atu a mgs. (BvR)
10091.6 Unid: 1834 UNID 250bd/170 UNID ARQ System, ACF=15, 75 (MC)
10106 Unid: 1844 FSK 75bd/850 UNID System, sync, cont, revs, ACF=64 lead-in, crypto (MC)
10127.2 Russian Mil 1743 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
10134.6 MFA Oslo 1730 DUP-ARQ-2 250 wkg/Western Europe? til 1800 (ANEE)
10145.3 1525 Packet Sig too weak to decode (RM)
10156.7 Chinese Diplo 1955 4+4, idle (MC)
10160.9 UNHCR Bosnia 1500 PACTOR-1 200 wkg/geneva, some PACTOR-2 tfc also til 1530 (ANEE)
10161.3 MFA Moscow 1745 CROWD-36 40 wkg/western Europe Embassies til 1815. (ANEE)
10163.5 MFA Moscow 1730 CROWD-36 40 tfc til 1745 (ANEE)
10167.5 Unid: 1914 RTTY 150bd/500 strings of RYs, Ws, Ts, Qs, no ID (MC)
10169 Russian Diplo 1850 CROWD-36 tfc (MC)
10169.5 MFA Moscow 1730 CROWD-36 40 til 1800 (ANEE)
10171.2 Russian Mil 1835 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10175 UNHCR Mauritania 1800 ARQ w/internal net tfc til 1830 (ANEE)
10186 Unid: 1851 FSK 100bd/850 UNID System, sync, cont, ACF=0 (MC)
10194 Unid: 1930 FSK 75bd/850 UNID System, sync, cont, ACF=0 (MC)
10210 MFA Nairobi 1900 RS-ARQ 225.2 til 1930 (ANEE)
10213 Rabat Morocco RTTY 50/425 w/ MAP news in French..(PT)
10254 MFA Rome 1600 RS-ARQ 240.1 not MFA Bonn (ANEE)
10270 DoSC Moskva, RUS 1752 RTTY 40/10Bd 32-tones, 5LGs to unloc. station (link-ID not copied). (ANEU)
10281.3 RFLIG: FF Cayenne, GUF 2250 ARQ-E3 192/350 w/"diffusion" restricted tfc from GROUPGEND Cayenne (le Groupe de Gendarmerie de Cayenne, a division of military police) on circuit RTI. (RB)
10287 SOUD Station 1740 RTTY 100bd/500 5LGs to ID "11166 00190 17873 18654 03873" (MC)
10296.5 Unid: 1815 TT2300b 100 MFA Paris or Rome? QRT after tune-in unable to discern which MFA (ANEE)
10314 SNN299: Polish MFA, Warsaw 0857 POL-ARQ 100bd/250 MSGs from MFA London, MSGs to Paris (paryz) (MC)
10314 SNN299: MFA Warsaw 1114 POL-ARQ 100/238 press-items in Polish (PB)
10334.7 MFA Cairo 1121 ARQ selcal "XBVX", unknown Embassy (PB)
10364 RFTJD: 1900 ARQ-E 48 wkg/RFTJDA til 0215 (ANEE)
10381.6 MFA Oslo 1730 DUP-ARQ-2 250 tfc til 1800 (ANEE)
10389 Polish Embassy, Rome 1056 POL-ARQ 100bd/230 5LGs to SNN299 marked "m:ryzm" (MC)
10403.2 Russian Mil 1605 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
10414.2 Russian Mil 1500 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10435.4 Unid 1823 ARQ Sp? mgs Gc? (BvR)
10492 Unid: 1024 81-81 81bd/200 tfc (MC)
10535 RDL: Russian navy Moscow,RUS 1102 RTTY 50bd RDL RDL RDL +encrypted messages (AB)
10536 CFH: Halifax 1745 RTTY 75 meteo traffic maritime forecasts, first RTTY intercept. (BDS)
CFH: Halifax Met, CAN UTC? FAX 120/576 slow fade after 0000z. (LC)

10542.5 Unid: 1100 FSK 150bd/850 UNID System, sync, cont, ACF=0 (MC)
10551.3 GFL23: Bracknell Meteo,G 1059 RTTY 75bd Synops (AB)
10554 MFA Bonn 1745 RS-ARQ 228.5 and 230.5 testing with Madrid til 1800. (ANEE)
10555 AXI: Darwin Australia 1000 FAX 120/576- -nmc gasp t79lt79 forecast. (MS4)
10562.7 NATO Mil 1831 PSK 2400bps UNID System (MC)
10579.6 HMF46: Pyongyang 1030 RTTY 50/455 EE nx, a bit garbled by multipath distortion. (FH)
10580.5 MKD Cyprus 2326 Piccolo Mk-6 RAF Cyprus QSY to f3106 (ED)
10582.9 SAM: Swedish MFA, Stockholm 0829 SWED-ARQ 100bd/400 MSGS in SS ending "det var alle" (MC)
10600 XVN37: VNA News, Hanoi 1423 RTTY 50bd/500 NX in FF abt visit of Duke of Gloucester to Hanoi (MC) XVA: VNA 1206 RTTY 50/498 ry's "de XVN26/XVN37 Vietnam News Agency 9330/10600 kHz" + news in FF. (PB)
10626 unid 1217 ARQ-E 184.59/400 idling, strange baudrate (PB)
10641.7 Chinese Diplo 1745 4+4 tfc (MC)
10643.5 MFA Warsaw 1730 ARQ-E 50 idle, then qrt til 1830 (ANEE)
10643.5 Russian Navy 1425 36-50 50bd/250 tfc (MC)
10650 SOUD station 1220 RTTY 75/500 5Lgs "11177 70004 15100 07485 00479" ended w/"cfm qsl 6 tks gb sk sk" (PB)
10672 NATO Mil 1102 PSK 2400bps UNID System (MC)
10686 9DM17: Tehran Meteo 1228 RTTY 50/395 wx synops metar (PB)
10747.5 Mossad 1800 ARQ-E 288 til 1900 (ANEE)
C37A: Mossad/BND link 1259 ARQ-E 288/340 encrypted tfc (PB)
10788 SNN299: Polish MFA, Warsaw 1752 POL-ARQ 100bd/250 5LGs to Embassies Rabat, Tunis (MC)
10798.3 RFLI: FF Fort de France, Mrt 2335 ARQ-E3 192/360 de rfli 2732347 znr uuu controle de voie. all 9296 above this. %%%%%%%% (RT2)
10805 DFGZ Serbia 1232 FEC-A 144/400 encrypted after "jxjxjxjxjxjxj" (ED)
10808.4 Unid: 1831 VFT: 3ch of 75bd/80 UNID FSK System, syn, cont, ACF=0, ACF=64 lead-in (MC)
10808.6 Unid: 1830 VFT: 3ch of 75bd/80 UNID FSK System, syn, cont, ACF=0, ACF=64 lead-in (MC)
10809.4 Unid: 1829 VFT: 3ch of 75bd/80 UNID FSK System, syn, cont, ACF=0, ACF=64 lead-in (MC)
10864.6 NAM: USN Cutler 2055 FAX 120/576 Various charts with m/path fading. (DW)
10943.9 CFH: Halifax 2100 RTTY 75/1200 "NAWS DE CFH ZKR F1"...etc, formerly 10945 75/850. (FH)
10963 HBD20: MFA Bern 1330 ARQ 5Lgs to Emb. Tunis, ended at 1336 w/")))) end of message ////9999+?" (PB)
10967.7 FDX: Paris 2200 ARQ-E3 200/400 (FDX) RFF?? Paris to RFFVAT Aconit, also at 2340 & 0130. (FH) Unid 1348 ARQ-E3 200/361 idling (PB)
Unid: 2204 ARQ-E3 200/400 idling, did get a "zczc" & "fdz" but the rest (if there was any) was garbled, this has been reported as FDX in the past, looks like c.i. is FDX for sure. (RB)
10969 MFA Berne 0545 ARQ opchat til 0600 (ANEE)
HBD-20 Berne 1232 ARQ 5lg's (ED)
10970.6 MSF Africa? 1730 ARQ wkg/MSF HQ Belgium, prob MSF Rwanda; only caught end of telex (ANEE)
10993.8 MFA Algiers 1800 COQUELET-8 26.7 wkg/consulates in France til 1900. (ANEE)
11006.7 Egyptian MFA, Cairo 1911 ARQ ATU-80 MSGs to various embassies (MC)
11013.7 Egyptian Embassy, Tunis 1648 ARQ ATU-80 MSGs to MFA Cairo marked "jg yphkg hlgp" (MC)
11022.2 Russian Mil 1736 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
11042 J5W: Unid FEC-A 192/389 French embassy w/ 5-lg tfc to Paris..(PT)
11043 9MR: MN Johor Baharu MLA 0900 VFT RTTY 50 Bd w/9MR RMMJ MRB RY's SG's tape (ML2)
11043.7 Unid 1803 ARQ-E3 192 idle. (BvR)
RFTJD Gabon 2249 ARQ-E3 192/400 controle de voie, C. I. = "JDJ" (ED)
RFTJD: Libreville, Gabon 2015 ARQ-E3 192 CCT JDJ to RFTJ. (JD2)
11072.5 MFA Moscow 1715 CROWD-36 40 tfc til 1745 (ANEE)
11076.3 MFA Moscow 1745 CROWD-36 40 wkg/western Europe Embassies til 1815. (ANEE)
11085 P6Z***: French MFA, Paris 0906 FEC-100 192bd/400 clg D2Z (FE Budapest) (MC)

11088 Russian Navy 1849 36-50 50bd/200 tfc (MC)
11089.5 French Diplo? 1737 TT2300b 100bd idle (MC)
11092 RFVI: FF Le Port REU 0920 ARQ-E 96/400 w/nx to RFVITT Dzaoudzi MYT,cct ITT (ML2)
11110.5 RFLI: FF Fort de France 0515 ARQ-E3 192 idle (no id). (BvR)
11119.2 AFF2? 1930 RTTY 75/850 (XX) w/EE KAWN wx msgs. (FH)
11122.5 Unid: 1834 FSK 75bd/850 UNID System, sync, cont, ACF=0 tfc, ACF=64 lead-in (MC)
11129 Russian Diplo 1533 CROWD-36, selcal mode (MC)
11149 MFA Ankara 1445 RS-ARQ 240.1 til 1500 (ANEE)
11153.2 Russian Mil 1649 MS5 12 tone vocoder (3300Hz pilot) (MC)
11158.2 Unid: 0600 ARQ-M2 200 unid French Mil til 0630 (ANEE)
11161.2 Unid: 0600 ARQ-M2 200 unid French Mil til 0630 (ANEE)
11163 Unid 2143 TWINPLEX & off, can't read here.(FH)
11171 Unid: 0600 RS-ARQ 240.1 MFA Ankara or Rome til 0630 unable to discern which MFA (ANEE)
11173.5 P6Z ? 1603 FEC-A 192/300 5lg's, msg. from RFGW, MFA France (ED)
11203.6 Unid: 1100 TT2300b 100 MFA Paris or Rome til 1130 (ANEE)
11216.7 Egyptian MFA, Cairo 1651 ARQ ATU-80 MSGs to various embassies (MC)
11227.2 Unid: 1653 PACTOR 100bd/200 UNID sub-mode, tfc (MC)
11411.7 Pakistani Diplo? 1804 TWINPLEX-1w 100bd/200 in IRS mode (-300/-100/+100/+300 tones) (MC)
11414.4 GXQ: RN London 1917 RTTY 50/340 (VFT) ry's + foxes (PB)
11421.7 Chinese Diplo 1602 4+4 (MC)
11423.5 SOL242B: PAP Warsaw 1425 FEC news in Polish (PB)
11453 IMB3: Rome RTTY 50/849 meteo..(PT)
11461.7 MFA Cairo 1700 ARQ w/circular tfc til 1745 (ANEE) Egyptian Embassy, Abidjan 1740 ARQ ATU-80 MSGs marked "jg kysmqkg" to MFA Cairo (MC)
11508 AJE: USAF Croughton, UK 1900 B9W voice on LSB, VFT-6028 on USB, wkg NSY (8102.5). (JD2)
11522 Unid 1248 ARQ-E 96/400 idle (ED)
11524 MFA Warsaw 1600 ARQ-E 50bd til 1630 (ANEE)
11527.5 MFA Sofia 2100 UNID 108.86bd F1B-FEC til 2130 (ANEE)
11536 HMF: KCNA Pyong Yang Korea 0425 RTTY 50/425 Nx in ee. (MS4)
11631 RFLI: French forces Fort de France ARQ-E3 192/374 w/ traffic via "TJI" circuit (very bad rx.(PT)
12097.5 NAU: Puerto Rico 1815 RTTY 75/850 usually encryption, NAM Norfolk also uses this frequency. (FH)
12110.5 British Mil 1325 VFT: 2ch of Piccolo-6, eng ch idle (MC)
12110.9 British Mil 1324 VFT: 2ch of Piccolo-6, crypto (MC)
12125 Unid. 1548 FEC enc msgs. F/O begins 1602 and barely audible by 1613. (RM)
12130 DMK Bonn 1227 ARQ-E 96/170 GG. msg. (ED)
12134.3 DOR: MFA Sofia 0948 RTTY 150/492 news-items in Bulgarian (PB)
12146 MKD: Royal Air Force, Akrotiri 1427 VFT: 7ch of 75bd/170 RTTY, "iryiryiry test de mkd" (MC)
12150 GFH: RAF Kai Tak HKG 0920 PICCOLO w/svce msgs to VHC RAN Belconnen AUS (ML2)
12174.2 'DOR': MFA Sofia, BUL, 12:50, IRA-ARQ-600Bd/500, tfc to Den Haag. (ANEU)
12177 DoSC Moskva, RUS, 12:50, RTTY 75/500, tfc. to 'NOB' on link (70004). (ANEU)
12186 JANA 1757 RTTY 50 EE nx. (BvR)
JANA TRIPOLI 1740 RTTY 50/404 Nx\EE. (RH2)
12196 'MIG': DoSC regional relay Habana, CUB, 19:57, RTTY 75/500 5LGs to 'WFO', DoSC Managua.(ANEU)
12204 ZSO: SAN NAVCOMCEN Durban AFS 1000 RTTY 75/170 w/NAWS S42D/,svce msg,coastal & high seas wx, 5LG's. // 4032 6408 (ML2)
12204.7 'DOR': MFA Sofia, BUL, 14:10, IRA-ARQ-1000Bd/500, messages to unloc. embassy. (ANEU)
12212 YZI: Tanjug Belgrade Serbia RTTY 50/643 w/ news in EE..(PT)
12219 Unid 1402 ARQ-E 96/170 all encrypted, then sign off (ED)
12220.9 Russian HFDF Coord. 0700 OQPSK 1280bps not russ ptt til 0730 (ANEE)
12225.9 Russian HFDF Coord. 0700 OQPSK 1280bps not russ ptt til 0730 (ANEE)
12228.5 BZG: Xinhua 1643 RTTY 75 EE nx. (BvR)
12228.6 Unid: 1700 FSK 70.1bd til 1730 (ANEE)
12239 SOUD station 1503 RTTY 75/494 5Lgs (PB)

12285.7 MFA Cairo 1700 ARQ tfc til 1730 (ANEE)
12298.2 MFA Brussels 2000 VFT 7ch RTTY 75bd (ANEE)
12375.2 Russian Mil 1948 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
12395 G1F21: 1655 ARQ msg to Dynacom t.m.lt marine dept/Angela B...M/V Amber clg MPKV "good evening any msg?" ended w/"ok bibi" (PB)
12477.5 UGNX: TKH KOMSOMOLETS LITVY 1507 ARQ tlx to Constanza via GKE5 login 55830 UGNX. CSOT: MV SANTA PRINCESA 1511 ARQ msg to Portugal via GKE5 login 51836 CSOT (apparently ex AGUAS SANTAS). (HOOD)
12479 3ETG9: Royal Majesty 2300 ARQ admin tfc, selcall 22313. (AB2) ELIG7: M/V Indian Ocean 1621 ARQ 10,600 DWT Liberian-flagged reefer (Ecuadorian Lines) w/AMVER/PR, bound Cristobal. (RB)
12480.5 UZXW: TK Geroi Novorossiyska 2121 ARQ w/port entry message, last port of call was Brofjordan, Norway, login 55144 UZXW. (RB)
12481 Unid: SHIP 2116 ARQ Tfc in Spanish to Valparaiso/CBV. (DW)
12483 9MBM8: M/V BUNGA SAGA TIGA 0002 ARQ W/BBXX LOGIN 56248 TIGA. (WT)
12485.5 LYBL: MV KUPISKIS 0710 ARQ with eta for Vilanova. (HOOD)
12486.5 DSEI7: Hanjin London 2305 ARQ partial AMVER/PR msg. (AB2) 9MBS3: M/V Bunga Orkid Tiga 1956 ARQ w/AMVER/PR via NMO, she is a 43,246 DWT bulk carrier. (RB)
12487 KPFD: SS Arco Prudhoe Bay 2131 ARQ w/AMVER/PR via KPH, login 10669 KPFD. (RB)
12488.5 YQGN: MV HISTRIA STAR 1600 ARQ bulker with msg to SAB login 26677 YQGN, vsl is ex CALLATIS per Lloyds. (HOOD)
12490.5 ESOZ: MV KUIVASTU 1548 ARQ admin from Km Koppel to ESA. (HOOD) C6NY6: M/V Falknes 1644 ARQ w/tlx for ETA Canso pilot, login 26647 FALKNE. (RB)
12493.5 P3AB3: Atlantis Two 1330 ARQ tfc for Lauritzen Bulkers NYC, selcall 01718. IBJG: Orinoco 1402 ARQ req wx for South Atlantic. (AB2) C6HI6: M/V CLIPPER UNITY 0053 ARQ W/TLX (WT)
12494.5 SQND: MS ZIEMIA TANOWSKA 1029 ARQ to Szczecin login 43173 SQND. (HOOD) SQPP: M/V Bataliony Chlopskie 1716 ARQ 33,618 DWT Polish-flagged bulk carrier (Polstream/Oceantramp), w/tlx via Gdynia Radio, login 43215 SQPP. (RB)
12495 UPSQ: TK VLADIMIR KOKKINAKI 1132 ARQ admin from Km Grishenko to ARKHANGELSK INFLOT via UFN. (HOOD)
12496 UEEU: Kosomolets Na'Amure 0333 RTTY 50/170 crew TG's. (AB2) P3IK2: M/V Glarkos 2156 ARQ w/tlx tfc, login 00534 P3IK2. (RB)
12496.5 SQFA: M/T Rekin 2139 ARQ (listed as Rekin-SZN94 in ITU) w/tlx in Polish, login 43185 REKIN. (RB)
12499 P3RK4: M/V Abava 2206 ARQ 4,995 DWT tanker, w/tlx to Riga Radio re provisions, is ex-UIAX/ex-YLAD, login 56362 Abava. (RB)
12500.5 J4FE: M/V Buena Fortune 2126 ARQ 27,917 DWT bulk carrier wkg SVT w/tfc. (RB)
12502 ELNV2: M/V Industrial Champion 1410 ARQ Liberian-flagged 17,300 DWT dry cargo vsl, w/tlx re crew mail, login 24355 ELNV2. (RB)
12504.5 P3PC3: MV IKTINOS 1222 ARQ msg from Ch Eng to Athens via GKQ5. login 56105 P3PC3 (ex DIANA ??) (HOOD)
12505 KMCB: M/T Marine Chemist 2132 ARQ 37,110 DWT U.S.-flagged chemical tanker w/tlx re new GPS antenna needed, login 10996 KMCB. (RB)
12505.5 UVCM: Angara 1526 ARQ tfc UAT selcall 55459. (AB2)
12508 WRYL: MV GREEN RIDGE 1536 ARQ eta for Wandelaar Pilot via VCT. (HOOD) WGMJ: M/V President Buchanan 2051 ARQ 45,688 DWT container ship (Lykes Bros) w/login for message ck. (RB)
12510 DZAB: M/V General Cabal 2048 ARQ 12,100 DWT bulk carrier, bound Manta pilot w/8799.26MT of wheat, login 26317 CABAL. (RB) LAII2: M/V DYVI ADRIATIC 0020 ARQ W/TLX TO TAMPA PILOT. LOGIN 26895 LAII2.(WT)
12510.5 J8KE2: Snowbird 1519 ARQ tfc. (AB2)
12512.5 UJTK: TKH KATYA ZELENKO 0706 ARQ admin from Km Bandolin to USU. (HOOD) UYTI: TKH Rybinsk 1609 ARQ 5,567 DWT dry cargo vsl (Azov), w/crew TG's. UYAF?: TKH Kapitan Adgladze 2236 ARQ Ukrianian-flagged vsl, w/crew TG's to Mariupol Radio (MRU/MMF), used UTAF for login, poss chg from Odessskiy Komsomolets. (RB)
12523 YLCZ: TKH Akademikis Botszhars 1726 ARQ Latvian 7,496 DWT reefer/carrier (Latvian Shpg) w/crew TG's, also sends tfc for YLAO, TKH Mikhails Lomonosovs. (RB)
12525.5 UYSL: TKH Novocherkassk 2220 ARQ w/tlx from master KM Umanets, vsl is bound Port Natal, Brazil, login 67857 UYSL. (RB)
12526 MT RN Tagore 1500 ARQ w/ETA Kuwait logoff MTRT (TD2)

12537.5 P3QK6: MV Breeze 1515 ARQ wkg Ostend w/tfc for Luxemburg (TD2)
12561.5 UAUN: NIS AKADEMIK IOFFE 0708 RTTY 50/170 crew TGs to UIW. Vsl has an English-speaking crew member (Kirk). ESMD: RTMS KORMORAN 1758 RTTY 50/170 admin to Tallinn via UIW. (HOOD)
12562 ENIU: TKH UKRAINA 0730 RTTY 50/170 crew TGs to USO5. UYCE: TR KILDIN 0810 RTTY 50/170 admin from Km Makarenko to UDK2 (ITU c/s now UBDA). LYES: TR SUOMIJOS ILANKA 1737 RTTY 50/170 admin from Km Artemov to LYL. (HOOD) UHCF: BMRT Novoukrainka 1928 RTTY 50/170 w/crew TG's to Kerch. (RB)
12562.5 UAMY: BMRT MIKHAIL VERBITSKIY (MB-0012) 0804 RTTY 50/170 BBXX to MURMANSK POGODA via UIW. Vsl is ex USTJ. UFZJ: RTMS AZIMUT 1837 RTTY 50/170 admin to MOSKVA RUSIMPEX from Km Machenko via UIW & using RTMS-0566). (HOOD) UOLZ: TSM Kaluga 1840 RTTY 50/170 w/admin TG's to UIW, Kaliningrad (KLD/UTF) from master "Kpt Deynak", TSM is a Trauler Srednyj Morilzhnyj, or medium freezer trawler. UFJM: RTMA Asteroid 2036 RTTY 50/170 Russian fishing trawler/freezer, Atlantic-class, w/admin msgs re fishing from master KMD Kravets. UYTB: RTMKS Rybak-1 2036 RTTY 50/170 Ukrainian Super stern ramped fishing trawler/freezer w/crew TG tfc to Kaliningrad Radio. EOSJ: TR Granitnyy Bereg 2119 RTTY 50/170 Ukrainian 11,746 DWT reefer, w/RYRY/DE to UIW, then QSY's to 8404.5 & sends crew TG's. (RB)
12563 UEXX: TKH DONSKOY 0712 RTTY crew TGs to USU. USOM: TKH DEDOVSK 1205 RTTY 50/170 admin from Km Omelychuk to UAT. (HOOD) VWVY: M/V Marath Majesti 2148 ARQ 76,650 DWT bulk carrier, w/tlx re items needed. (RB)
12563.5 YQII: M/V Histria Sun 1933 ARQ 54,615 DWT bulk carrier, w/ETA Turbo. (RB)
12564 UINN: BMRT Otrog 2020 RTTY 50/170 RYRY/DE to UIW, & into crew TG's. (RB)
12564.5 UTVT: TKH TARAS SHEVCHENKO 1529 RTTY admin to UUI (ITU call now ELSH4 but still using UTVT in RY tape). UOMP: TSM OLUSTVERE 0840 RTTY 50/170 admin from Km Kalinin to UIW. Vsl is ex LYJD. UUPP: RTMS BIOSFERA 0722 RTTY 50/170 admin from Km Voznesenskiy to SEVASTOPOL SGP ATLANTIKA via URL. UOLQ: BATM PETR SHAFRANOV 0849 RTTY 50/170 msg to Torshavn from Km Krupenich via UIW. They translated "Petr" as "Pyotr" in their English version. (HOOD) UEPZ: RTMS Nikolay Afanasev 1858 RTTY 50/170 Russian super fishing trawler/super freezer, w/admin TG's to Kaliningrad Radio from master KMD Martynenko. UVJC: RTMKS Tosno 1919 RTTY 50/170 w/RYRY/DE & w/admin TG's from master, "Captian Koretsky" using hull#/ID RTMKS-0916 (SPB/KRH), vsl bound Balboa Roads, note name for this c/s was listed as "Tofno" in ITU, Tosno used here. UGSP: TR Ussuriyskaya Tayga 1927 RTTY 50/170 11,816 DWT reefer w/RYRY/DE to UIW, then w/20106 msg & crew TG's (VLD/VTF). UEVB: BATM Zaostrove 1957 RTTY 50/170 Russian large autonomous long range/endurance trawler/freezer, w/RYRY/DE to UIW, then w/crew TG's (KLD/UTF). EVBP: TR Yantarnyy Bereg 2028 RTTY 50/170 RYRY/DE to UIW, then w/admin msgs fm master, KM Guseynov (VLD/VTF). UBRJ: TR Ulbanskiy Zaliv 2115 RTTY 50/170 9,360 DWT Russian reefer/fish carrier, w/RYRY/DE to UIW, then with admin tfc to Vostoktransflot (VTF). (RB)
12565 UGMS: ST KAPITAN SMELOV 0722 RTTY 50/170 admin to Nvr. Vsl off coast of West Africa. (HOOD) UQYZ: TKH Pavloydar 1830 RTTY Ukrainian 11,817 dry cargo vsl, w/admin msg from master KM Tavadze. UCSA: RTMS Eysk 2117 RTTY 50/170, Russian super fishing trawler/super freezer, w/crew TG's. (RB)
12566 UWOA: BMRT Tsemesskaya Bukhata 1912 RTTY 50/170 Russian long range/endurance large freezered factory trawler w/RYRY/DE to UGW, then into crew TG's. UUZU: TKH Vega 2038 RTTY 50/170 w/admin TG's to Odessa Radio from master KM Loginov. (RB)
12566.5 UUET: TKH ARKADY GAYDAR 1034 RTTY 50/170 crew TGs to UUI. (HOOD)
12568 UFBE: ADMIRAL KOLYSHKIN (MA-0061) 0712 RTTY 50/170 admin abt cargo for TR FRIO AMERICA from Km Malezhik. UAYV: ALEKSANDR GRYAZNO (MB-0002) 0800 RTTY 50/170 admin from Km Dmitriyev to MURMANSK BVC SEVRYBA via UDK2. Vsl is ex UTPZ. LYEP: KORALAS (RTMS-7573) 0744 RTTY 50/170 admin and crew TGs to LYL. (HOOD)
12568.5 UAMY: BMRT MIKHAIL VERBITSKIY 0804 RTTY 50/170 BBXX to UDK2. Vsl is ex USTJ. (HOOD)
12569.5 UALX: RTMS VOLNYY VETER 0805 RTTY 50/170 admin to KALININGRAD POISK from Km Alekseenko via UIW. Vsl is ex UVWZ. (HOOD)

12570 UPRN: KOMMANDARM SHCHERBAKOV (ma-0068) 1100 RTTY 50/170 BBXX and admin from Km Popko to UDK2. (HOOD)
12571 9HXI4: TKH KAPITAN LUS 0811 ARQ admin from Km Petukhov to UCE. login 72062 9HXI4. Vsl is ex UGPM. UJIQ: TKH IVAN SHADR 0730 ARQ eta to a Finnish pilot station via UCE. Vsl using old c/s, new in ITU is UCMR. UAAP: TKH AKADEMIK GLUSHKO 0734 ARQ admin from Km Vrotskiy to UCE. UCNE: TKH NIKOLAY EMELYANOV 0803 ARQ admin from Km Silimyanin and BBXX to UCE. UVAK: TKH PIONER ESTONII 1223 ARQ admin from Km Averin to UCE. UZJP: TKH PERM 1534 ARQ crew TGs to UCE (ITU is UCNU). (HOOD)
12572 UCHV: TKH Inzhener Yermoshkin 2015 RTTY 50/170 w/admin TG's to Murmansk using hull#/ID MI-1527, (MRM/KRH), from master KMD Bastrykin. (RB)
12573 UVDD: TKH KAPITAN DZHURASHEVICH 1845 RTTY 50/170 msgs and relaying for ELSL3: TKH KAPITAN TRUBKIN to UUI. (HOOD)
12573.5 LYLB: SRTM STERKAS 1551 RTTY 50/170 admin from Km Smirnov to UIW. UAES: SRTM BILIBIZA 0644 RTTY 50/170 admin from Km Berliner to UIW. (HOOD) UOZO: RTMKS Porechye 1920 RTTY 50/170 w/crew TG's to K-grad. (RB)
12574 UVHA: VASILIY LOZOVSKIY (MA-1823) 1014 RTTY 50/170 admin from Km Vakulenko to UDK2. (HOOD) UPRR: BATM Petr Sbignev 1914 RTTY 50/170 Russian large autonomous long range/endurance trawler, freezer w/admin msgs to BVC Sevryba using hull#/ID MA-0055 from KMD Turbanov. UBLA: RTMKS Aleksandr Mironenko 2052 RTTY 50/170 w/RYRY/DE to UDK-2, then w/crew TG's to Murmansk Radio (MRM/KRH) using hull#/ID MA-1808. UDUR: RTMKS Admiral Starkov 2055 RTTY 50/170 Russian stern ramped super fishing trawler/super freezer, w/an admin TG to Murmansk using hull#/ID MA-1812 (MRM/MRH) from master, KMD Sivkov, then into crew TG's. UFAA: BATM Aleksey Generalov 2111 RTTY 50/170 Russian long range/endurance large autonomous trawler, w/RYRY/DE to UDK-2, Murmansk Radio, then w/admin TG's from master "Kpt" Karapuzov, using hull#/ID MA-0062. J8LU6: TKH Vitaliy Federov 2220 RTTY 50/170 w/admin tfc from master, Kapitan Fedorov, listed as a trawler owner by Hafest Marine LTD. (RB)
12575 UYRK: TKH Viktor Talaliykhin 2017 RTTY 50/170 w/STSMRU Disp-1 report to Mariupol Radio from master, KM Oganesyan. (RB)
12576.5 ENOQ: UPS PROFESSOR MINYAYEV 0744 RTTY 50/170 admin from Km Gotovkin to UUI. (HOOD)
12579.5 9VG: Singapore Radio 1529 ARQ w/command codes for new user (TD2)
12580.5 KFS: San Fran. R. 2325 FEC Tropical Strm forecast & predications. (RT2)
12583.5 CBV: Valparaiso Radio 2110 ARQ Marker "CBV" and tuning burst. Accepting tfc from unid ship. (DW)
12590.5 KLB-Seattle Radio 1528 ARQ traffic list (MR2)
12593 ESA: TALLINN RADIO 1530 FEC tlx to ESAQ: PAKRI. (HOOD)
12597 SPB: 1313 ARQ w/CW mkr (Szczecin Radio Poland - LOGS) (SZ)
12602.5 IAR: Rome Radio 1320 ARQ w/CW Marker "IAR" and tuning burst. (DW)
12607 GKQ5: 1313 ARQ w/CW mkr (Portishead Radio UK - LOGS) (SZ)
12608 UAT: MOSCOW RADIO 1400 ARQ with tfc list. (HOOD)
UAT: Moscow Radio Russia UTC? ARQ w/CW ID marker. (PT)
12625.5 UCE: ARKHANGELSK RADIO 0652 ARQ to URYL: TKH PALANGA. (ITU call now UCPM but was using URYL). Same at 1921 ARQ to UBFX: TKH INZHENER PLAVINSKIY. (HOOD)
12627.5 USU: MARIUPOL RADIO 1236 ARQ crew TG to USBT: KOMSOMOLETS ARMENII. Same at 1925 ARQ crew TGs to UZLR: TKH ZAKARPATYE. (HOOD)
12628.5 FFT: St Lys 1100 ARQ ready signal w/CW ID. (FH)
12648 WCC: Chatham 1930 ARQ ready signal w/CW ID, maybe second harmonic? (FH)
12652 SAB: Goeteborg radio 1639 FEC global wireless mgs and tfc lst. (BvR)
12671.5 YLQ: RIGA RADIO 1935 RTTY 50/170 blind tfc for ELSO9: TK POLS ROBSONS (ex YLBS), ELQH3: TK INGA, YLAP: TKH PAVELS STERNBERGS, YLCW: TKH KAMIL SJENFUEGOSS and YLBJ: TKH MEHANIKIS FJODOROVS. (HOOD)
12674 Buenos Aires Met ? 2126 FAX 120/576 Started on time but signal vri poor and qrm fm CLA33/Havana. End of pix (2140z) goes into repeat scan pattern. Next chart 2148z.offair 2207z.(DW)
12691.5 FUX: French Navy Le Port REU 1450 RTTY 75/850 w/RYs (TD2)
12726 CFH: Halifax 1800 RTTY 75/850 usually encrypted, not listed in callbooks but active. (FH)
12813 CFH: Halifax 1805 RTTY 75/850 usually encrypted, probably why not

listed in callbooks. (FH)
12834.5 AFS: Offutt AFB, NE 1635 RTTY 75/850 KAWN meteo. (AB2)
12835 AFF2? 1800 RTTY 75/850 (XX) KAWN wx msg in abbrev EE, not listed in callbooks. (FH)
12857 6WW: FN Dakar 1758 RTTY 75 testing. (BvR)
12932.5 Navy Madrid,E 0831 RTTY 75bd Encrypted msgs (AB)
12932.5 Unid: 1029 RTTY 100 scramble. (BvR)
12947 UUI: ODESSA RADIO 1512 RTTY 50/170 msgs to ENPK: TKH ANTON MAKARENKO & ENYZ: TKH NAZYM KHIKMET. (HOOD)
12965 USO: Izmail radio 1209 RTTY 50 w/ryryryryryryryrryr de uso uso. (BvR)
13006.7 Unid: 1727 ARQ atu A mgs Egy diplo? (BvR)
13031.2 FUF: Fort De France 1328 RTTY 75/400 de fuf/sgs/0-10 (RT2)
13054 UIW: Kaliningrad Radio 1735 RTTY 50 tlx tfc. (BvR)
UIW: KALININGRAD RADIO 1554 RTTY 50/170 crew TGs to UHAP: BST IVAN BORZOV and listening 12425.5. Same at 1003 with RTTY CQ and freqs as 4277/8454/13054/16927/19724.5 and tfc list. Same at 1641 RTTY 50/170 crew TGs to UATX: BATM KAPITAN SUKHONDYAY EVSKIY. (HOOD)
13134.6 Cairo(?) 1446 ARQ locked space tone, Arabic (atu-80) (ED)
13356.7 MFA Cairo 1545 ARQ w/MOI circs til 1645 (ANEE)
13364 5YD: Nairobi Air, KEN 1821 RTTY 50/425 flt info being passed on circuit KVA. (RB)
13375.6 MFA Bonn 1800 RS-ARQ 228.5 w/tfc frm Athens til 1900 (ANEE)
13375.6 Unid 1300 PACTOR can't read here.(FH)
13378.5 MFA Rome 0600 ARQ wkg/Mideast Embassies til 0730 reverse from 0730-0900 (ANEE)
13379.7 MFA Tokyo 1500 ARQ wkg/Embassies Dakar, Gaborone til 1600 (ANEE)
13386.7 Rome 1442 ARQ ATU-80 msg., to Cairo, 5lg's (ED)
13387.9 MFA Oslo 0830 TWINPLEX 100 this ckt normally 1800-1900 (ANEE)
13395.3 CLP1: Havana 1435 RTTY 75/1035 SS msg to CLP65 Nicaragua (a diatribe against U.S. law regarding trade w/Cuba) to 1508. (FH)
13399 DFZG***: Serbian MFA, Belgrade 1443 RTTY 75bd/400 "dfzg dfzg dfzg qtc ryry.." (MC)
13401.8 Egyptian MFA, Cairo 0748 ARQ Clg selcal "TVXX" (Embassy Sanaa) QSX 16161kHz (MC)
13418 Unid 2009 ARQ-E 72/400 Idle (ED)
13419 XM8: Bonn 1515 RTTY 100/170 foxes & RY's to C37A, then encryption, did not sign "6XM8"...just XM8. (FH) 6XM8: BND/Mossad link 0920 ARQ-E 288/182 encrypted tfc. (PB) BND/Mossad? 1813 ARQ-E 288/200 w/encrypted traffic, fol by op chat in 100/850 RTTY "QSY 22 QSY 22". (RB)
13425.6 Bruxelles 1254 COQUELET 8 tone FF. msg. to Algiers, Algiers heard here also (ED)
13437.5 MFA Moscow 0830 CROWD-36 40 wkg/embassy lisbon? til 0900 (ANEE)
13438.6 PIAB Bonn 0910 FEC-A 96/373 government press-items in GG. //18704.2 kHz = idling at the moment//(PB)
13443 Unid: 0751 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
13452 Unid: 1447 FSK 75bd/850 UNID System, tfc (MC)
13457.9 OZU25: Danish MFA, Copenhagen 0953 TWINPLEX-1w 100bd/400 crypto (MC)
13460 SOUD Station 1543 RTTY 75bd/500 5LGs on link ID "11177 00030 22863 22483 05109" (MC)
13474.7 GYU: Gibraltar 1832 RTTY 75/850 foxes. (FH) GYU: Royal Navy, Gibraltar 0835 RTTY 75bd/850 "de gyu de gyu test test test the quick brown fox.." (MC)
13480 Unid: 0752 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
13486.7 MFA Cairo 0830 ARQ wkg/Embassy Bonn til 0930 (ANEE)
13486.9 MFA Copenhagen 1148 TWINPLEX 100 -400/-200/200/400/ F7b-1. Tfc in Danish, fading. End qso 1155. New selcal TPIC (Harare) then TPOS (unid) then TPOQ (Tehran) with tfc. TPEP (unid). On line encrypted tfc. (DW)
13494.2 MFA Oslo 0830 TWINPLEX 100 qrt (ANEE)
13506.7 Egyptian Emb ? LOC 1253-1305 arq Tfc in offline encryption (5LG's) then opr chat. (DW)
13506.8 AT5TIL 1400 PACKET EE msg from S. Korea to AA6USA. (FH) (Army MARS -LOGS)
13510 CFH: CF Halifax 1308 FAX 120/576 Ice chart. (DW)
13510.6 MFA Bonn 0830 RS-ARQ 228.7 Western Europe til 0930 (ANEE)
13524.9 Unid: 0600 FSK 200.1/460 sub/ship broadcast? til 0630 (ANEE)
Unid: 0920 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)

13534 Russian Mil 1127 MS5 12 tone vocoder (3300Hz pilot), tfc (on LSB). (MC)
13538 ZRO: Pretoria Meteo, RSA 1000 fax 120/576-FAPR ASZA chart. (MS4)
13541 MARS NET (NN0MDM) 1323 ARQ Calls and idling in betas. Then offair. (DW)
13542 ZRO: Pretoria- RSA 1335 RTTY 75/425 -met (MS4)
13550.2 V5G: MFA Bucharest 0914 ROU-FEC 164/398 encrypted tfc (PB)
13557.9 MFA Oslo 0845 TWINPLEX 100 Unid loc prob enciphered bit stream til 0930 (ANEE)
13558 Unid: 0943 RS-ARQ 240.1bd 8 tone tfc (MC)
13567.1 A9C: Emb. France, Bucharest 0931 FEC-A 192/414 5Lgs to RFGW Paris (PB)
13570.9 PIAB Bonn 0828 FEC-A 96/365 government press-items in GG. //18704.2 DGN57: PIAB Bonn 0936 FEC-A 96/389 nx in GG to West Africa (PB)
13572.5 RFFX: 1630 ARQ-E 184.6 w/tfc to RFFXQA til 1700 (ANEE)
RFFX: FF Paris 1329 ARQ-E 72/400 4RC Cct [XXL] to Naqoura. Tfc in FF. (DW) RFFX***: French Forces, Versailles 0806 ARQ-E 184.6bd/400 MSGs in FF to RFFXCL, RFFXCCS (MC) RF*B*W: [ID unreadable] 0953 ARQ-E 72/398 5Lgs to RFFXL (PB)
13577.2 Unid: 1129 PACTOR 200bd/200 very weak (MC)
13580 MKK: RAF London ? 1337 VFT PICC Three channel piccolo vft on usb. (DW)
13580 HMF36: KCNA News, Pyongyang 0838 RTTY 50bd/400 NX in EE about problems with S. Korea (MC)
13585.9 Russian Mil/Far East 1630 CIS-11/14/27 50.1 tfc til 1700 (ANEE)
13585.9 MAP Rabat 1708 RTTY 50 FF nx. (BvR) CNM53?: Tanger 1230 RTTY 50/400 MAP EE nx to about 1400, FF nx ends 1046 & again about 1200. At 1202 skeds/freqs but no mention of this one! FF ends again at 1738, off 1745. Programs start w/"ZCZC ERP ROMAENG...", anyone translate that? Found station //18255.0 at 1615, 1715, off 1757. (FH)
CNM85: Rabat, Morocco 1200 RTTY 50/400 MAP press in EE. (JD2)
CNM29/1X: MAP News, Rabat 1730 RTTY 50bd/400 NX in FF (MC)
CNM85: MAP, Rabat, MRC 1720 RTTY 50/425 w/ MAP FF nx items; at 1550 w/same another day. (RB) MAP, Rabat, MRC 1430 RTTY 50/400 nx/EE (RM)
13593.7 Provence 1048 ARQ-E3 192/400 (LFA) to having synch trouble to Dakar. (FH)
13594.5 Unid: (to 13596.4) 1800 VF 50/170 channels encrypted, whoizit?. (FH)
13808 Unid: 1106 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
13824.5 GYU Gibraltar 1404 PICCOLO Mk-6 Sending "tgest tape", ry's "int zbz", in 2ch.FDM, mis-spelling is theirs (ED)
13838 'YFC': UNID w/link to Moskva 1330 ASCII 50Bd & 110Bd,IRA-ARQ 300.6 Bd/500Hz QSX 14417 KHz. (ANEU)
13839 GXQ: RN London 1416 VFT DCN 8 channel interleaved vft on USB. (DW)
13848.5 RFFXL: FF Naquora 1721 ARQ-E 72 idle, no id. (BvR)
RFFXL: FF Naqoura 1441 ARQ-E 72 400 4rc Idle on betas. (DW)
13859 MFA Moscow 1630 CROWD-36 40 tfc til 1700 (ANEE)
13860 Unid: French Diplo 0837 ARQ6-90 200bd/400 in IRS mode (constant carrier btw bursts) (MC)
13872.7 RFFVAE: FF Dhahrain 1516 ARQ-E3 200/400 8rc. Betas. Weak sync. Tfc in offline encryption. Message paging. "Page 2 RFFVAE #0020". Also tfc in FF. Cct [DET].All messages from RFFVAE (or subs) to RFU subordinates. (DW)
13877 Unid: 1330 DUP-ARQ? to 1341, Moscow reported here in another mode. (FH)
13894 MFA Ankara 0700 RS-ARQ 240.1 (ANEE)
13903 BND,D 1038 ARQ-E 96bd Encrypted traffic (AB)
13907.5 Unid: 1645 ARQ tfc til 1700. UNHCR Mauritania 1700 ARQ internal net alternate freq (ANEE)
13914 Unid 1539 ARQ-E 72/400 Idle (ED)
13915 Geneva/Bogota 1900 PACTOR-I 200/200 ICRC traffic to and from Bogata, EE sp., and ff. (ED)
13928 Unid: 1107 RS-ARQ 240.1bd 8 tone tfc (MC)
13936.5 Unid: JGR 1554 FEC "de JGR qsl les deax parties qsl int qru kkkk. pse qsy f1 qsy f1 kkkk." (everything multiple repeats per MFA Tunis also 3 character call, use of French, mode, f1 reference to frequency). (DW)
13945.6 Lima or Brasilia? 0254 ARQ-E 96/150 GG & encrypt to Bonn, MFA (ED)
13953 P6Z: MFA Paris, F 2045 FEC-A 192/400 app encrypted. (RB)

13954 HBD20: Swiss Embassy, Berne 2020 ARQ w/5LG msgs for Havana. (RB)
13954.5 HBD20: Swiss Embassy, Berne 1540 ARQ w/5LG msgs for Havana/Ottawa. (RB)
13963.6 RC1KHA***: ICRC, Khartoum 1445 PACTOR-I1 200bd/200 MSGs in EE to HB8GVA, Geneva. RC1LOK***: ICRC, Lokichokio 1443 PACTOR-I1 200bd/200 MSGs for supplies to HB8GVA, Geneva. RC1NAI***: ICRC, Nairobi 1443 PACTOR-I1 200bd/200 MSGs to HB8GVA, Geneva (MC)
13964 Unid: 0645 FEC-S 100 probably Lisbon/Madrid til 0715 (ANEE) CLP/CLP65 Havanna?/Nicaragua? 1945 300 Packet, ops discussing using pcpakrat software, CLP sends 5lg's, makes schedule for 13395 for tomorrow. (ED)
13965.5 Berneda (HBD20?) 1345 ARQ 5L msg to Ottawa, off 1418. (FH) HBD20: Swiss Embassy, Berne 1204 ARQ w/5LG msgs for Havana. (RB)
13968 CLP/CLP65 Havanna?/Nicaragua? 2010 300 Packet, Using some sort of BBS software for mailbox functions. "PASAME EL FILE ADT." Stations off frequency. Is this really CLP? (ED) (it appears so! -LOGS)
13971.5 CLP65: Cuban Emb, Managua, NCG 1945 PACKET 300 bd w/std packet beacon "CLP65", then some SS op chat. Interesting mode! (RB)
13977 HBD20: Swiss Embassy, Berne 1455 ARQ w/5LG msgs for Havana, other embassies to 1728! On another day also at 1455. (RB)
13984.1 "GVA" Geneva, Rome 1240 ARQ Telex from "worldfood-Rome" (ED)
13987.9 Unid: 1645 G-TOR 200 UNO? til 1700 (ANEE)
13989.8 Unid: 0843 FSK 100bd/1000 UNID System, sync, cont, ACF=0 (MC)
14006 Unid. 1440 74.8/250 enc (RM)
14348.5 MFA Moscow 1615 CROWD-36 40 tfc til 1645 (ANEE)
14366 'DOR': MFA Sofia, BUL, 09:59, IRA-ARQ-800Bd/500 encrypted messages to Bruxelles. (ANEU)
14367 BZP54: Beijing RTTY 75/379 Xinhua Agency w/ news in EE..(PT) BZT54: Xinhua, Yuryumqi, CHN 1220 RTTY 75/400 nx/EE. (RM)
14388 DOR: Bulgarian MFA, Sofia 1845 RTTY 75/425 w/nx items in Bulgarian. (RB)
14390.5 C37A***: Israeli Intel, Jerusalem 1017 ARQ-E 288bd/320 crypto seq. "cneuoqet" (MC)
14393.5 Unid: 1548 Piccolo-12, crypto (MC)
14402 Unid: Russian Diplo 1017 CROWD-36, tfc (MC)
14403.4 UNO Asia 0745 PACTOR 200 weak til 0830 (ANEE)
14405 UNHCR Monrovia, Liberia 1730 PACTOR 200 wkg/UNHCR Lyon (PACTOR-1 and PACTOR-2) til 1800 (ANEE) UNHCR 1028 ARQ MSG in FF (very weak) (MC)
14411 Unid: 1445 RTTY 50bd tfc til 1715 (ANEE)
14411 Russian Navy 0703 36-50 50bd/200 36-50, tfc (MC)
14412.6 Unid 2308 FEC-A 96/85 5lg's, bt & gr??? at end.,like other circuits. (ED)
14417 'COY851': DoSC Moskva, RUS 1339 ASCII 50Bd/110Bd & IRA-ARQ 300.6Bd/500Hz, QSX station 'YFC' on 13838 kHz, transmitting 5FG file 00040.TLG on link <00103>. Seems to be a Saturday sked only! (ANEU)
14427.5 BZ???: Xinhua News, Beijing 0910 RTTY 75bd/400 News in EE (MC)
14441 MKK: RAF London (G) 0045 RTTY/VFT 50/170 RYI-mkr, also RYI on 14445.8 (ANDL)
14451.7 MFA Cairo 1530 ARQ wkg/Embassy Rome w/msgs to Embassy officials. (ANEE)
14466.8 Unid: (new) 1750 RTTY 75/482 5L msg in progress at tune-in, end at 1753 "QRU SK", still idling at 1800, try about 1745 weekdays. (FH)
14473 Unid: 1030 FSK 200bd/500 UNID System, sync, cont, ACF=0 (MC)
14486 P6Z: Paris 1400 FEC-A 192/390 RY's to "SRZ DE P6Z". (FH)
14492 French Diplo 0920 ARQ6-90 200bd/400 idle in IRS mode (MC)
14498 CSY: Santa Maria Azores RTTY 50/689 w/ wx for Portuguese airfields.(PT) CSY: Santa Maria Air, AZR 2151 RTTY 50/850 w/AAXX wx data on circuit MCA. (RB)
14525 Unid 1649 ARQ-6/90 200/400 5lg's, group count, nnnn, few op msg. no ID (ED)
14532 DoSC Moskva, RUS, 15:00, RTTY 75/500, 5 LGs to UDZ 21 on link <20054>. (ANEU)
14533 French Diplo? 1321 ARQ6-90 200bd/400 idle in IRS mode (MC)
14550 MKD: RAF Akrotiri, Cyprus 1937 CRATT 75bd/850 NATO CRATT, crypto (MC)
14553 'W5E': AMBAFRANCE Tel Aviv, ISR 1454 FEC-A-192/400, 5LGs to 'P6Z'. (ANEU)
14560.3 JYF2: JNA-PETRA press Amman 1045 RTTY 50/400 nx in Arabic (PB)
14573 5AQ70: JANA News, Tripoli 1636 RTTY 50bd/400 NX in Arabic (MC)

14581 Unid: 1309 FSK 126bd/250 UNID System, idle, ACF=7 (MC)
14585.7 RFTPA RVVFAD N'Djamena 1810 ARQ-E3 200/400 now, use to be M2 200/400, w/current rate of demise M2 200/400 will expire as a baud & mode in 1997. (FH)
14595.7 RFTJ FF Dakar, Sen 1537 ARQ-E3 192/372 00 rfli de rfli de rfli 270 1557 znr uuuu controle de voie nnnn. rtfj or rfli?? (RT2) (this is RFTJ c/i TJI, rftj to rfli - LOGS)
14600.2 Unid: 1500 ARQ very weak poss MFA Cairo? (ANEE)
14626 CZM: Maritime Air Group, Halifax, NS, CAN 1607 Fax 120/576 w/wx chart. QRT 1617. Miserable QRM from RFLI's strong ARQ-E3 xmsn on 14626.7. This sta. is rarely heard. Was logged Aug. 9. Last logging by me prior to this was Aug. 22, 1995.
14655.1 Unid: 0000 FSK 36bd xm followed by cw, then arq 100 (14654.5 tfc: gryfr pl qrv qrv qsl 1 qtc), then usb polish (yl) on 14656 - evidently polish mil vessel wkg warsaw radio. (ANEE)
14657 Russian Diplo 0758 CROWD-36, tfc (MC)
14664 Unid: 1500 RTTY 50bd tfc til 1530 (ANEE)
14693 Russian Navy 0824 36-50 50bd/250 tfc (MC)
14694.7 MFA Helsinki, FNL, 1111 F1B-301Bd/770 Packet-like system. (ANEU)
14699 YIX 70 Baghdad 1226 RTTY 50/400 arabic press (ED)
14732.7 Spanish Navy, Granada 1358 VFT: 2ch of 100bd/170 ALE System (MC)
14733.7 MFA Rome 1600 TT2300b 100 tfc til 1615 (ANEE)
Spanish Navy, Granada 1358 VFT: 2ch of 100bd/170 ALE System (MC)
14737.2 Russian Mil 1132 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14751.7 Unid 0846 ARQ-E 96/406 idling, not seen before on this freq. (PB)
14756 Unid: 0827 81-81 40.5bd/500 tfc (MC)
14774.7 DOR: MFA Sofia 0903 RTTY 75/504 nx in Bulgarian. (PB)
14778.6 Unid 2302 ARQ atu arabic, locked space tone, prob. Cairo (ED)
14801.2 Russian Mil 0913 MS5 12 tone vocoder (3300Hz pilot) (MC)
14844 Russian Navy 1405 36-50 50bd/250 tfc (MC)
14846.8 Chinese Diplo 1036 4+4, idle (MC)
14853 Unid: 1938 81-81 81bd/250 tfc (MC)
14855.3 DOR: MFA Sofia, Bulgaria 0900 RTTY 150/500 press items in EE. (JD2)
DOR: MFA Sofia 0909 RTTY 150/498 nx in Bulgarian (PB)
14865.1 unid 0918 probably Russian Crowd-36 system(PB)
14867.7 MFA Cairo 1600 ARQ wkg/Embassy Kuala Lumpur (ANEE)
14875.5 British Mil 1940 VFT: 2ch of Piccolo-6, eng. ch repeated "the quick brown fox...." (MC)
14875.9 British Mil 1941 VFT: 2ch of Piccolo-6, crypto tfc (MC)
14912 DFZG: MFA Belgrade,YUG 1413 RTTY 75bd Nx. (AB)
14926.7 RFTJ: Dakar Sen 1910 ARQ-E3 192/425 FF presumed idle (RT2)
RFTJ FF Dakar, Sen 1546 ARQ-E3 192/375 Dakar,Sen presumed. (correct, this is RTFJ FF Dakar, Sen - LOGS)
14940.5 British Mil 1944 Piccolo-12, crypto (MC)
14941 Unid: 1850 RTTY 75/520 5 ltr grps (RT2)
14959 7 RFTJ: Dakar Sen 1820 ARQ-E3 192/431 FF Presumed idle (RT2)
RFLI: French Forces, Fort de France, Martinique 1818 ARQ-E3 192/340 w/Controle de Voie on C.I. TJI. (RB)
14966.7 MFA Cairo 1515 ARQ w/Moscow tfc til 1545 (ANEE)
14970.3 SAM: Swedish MFA, Stockholm 1053 SWED-ARQ 100bd/400 MSGs and 5LGs to Embassy Damascus (MC)
14970.3 SAM48: Swedish Embassy, Damascus 1051 SWED-ARQ 100bd/400 MSGs and 5LGs to MFA Stockholm (MC)
15021 RFFX: Paris France 1755 RTTY 75/871 Presumed no listing (RT2)
15652 SNN299: MFA Warsaw 1135 POL-ARQ 100/248 press-items in Polish and tfc to Tel Aviv "claris nr:570" (PB)
15657 Unid 1100 FEC-A? guessed, but could not determine w/M7000.(FH)
15717.7 MFA Islamabad 1515 ARQ w/unid Emb. tfc til 1530 (ANEE)
15729 PCW1: Mfa Den Haag 1843 F7B4 100 5FG's to Tripoly. (BvR)
15733 MFA Rome? 1830 RS-ARQ 228.5 w/tfc til 1845 (ANEE)
15764.2 Russian Mil 1428 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
15768.1 Unid: 1730 Mode? 50/187 UNID, CANNOT DECODE. (RH2)
15821.9 SAM: MFA Stockholm,S 1405 SWED-ARQ 100bd Messages (AB)
SAM: MFA Stockholm 1201 SWED-ARQ 100/424 22-CRC tfc in crypto (PB)
SAM? MFA STOCKHOLM 1050 SWED-ARQ 100/400 1ST TIME HEARD REAL OLD SWED-ARQ FOR MONTHS.NIL ON SCREEN. (RH2)
15822.4 SAM: MFA Stockholm 1145 SWED-ARQ 100/297 22-CRC asking for Internetadress (PB)

15833 V5G***: Romanian MFA, Bucharest 1501 ROU-FEC 164.5bd/400 (Bitmask=24) Diplomatic circulars in RR (MC)
15835 UNID: 1330 UTC ARQ6-90 200/375 Got in at end of long 5LG message which ended with ZCZC. Idling after that. (ES)
15838 V5G: MFA Bucarest, ROU 1420 ROU-FEC 164.5/400 w/circular ('circulara') tfc, my 1st ROU-FEC snag! (RB)
15854.9 MFA Bonn 1700 ARQ-E 96bd tfc til 1730 (ANEE)
15854.9 UNID: 1445 UTC ARQ-E 96/170. Sent "test de 610". Also sent "Kaufen sie ihrer frau jede woche ein paar gute begu????" Also sent "The quick brown fox ....." and RY's. This looks like it could be a German diplo station. (ES) (Ed Deasy reported this is Bonn sending tfc to Athens -LOGS)
15855.8 Unid: 0857 Mode?? UNID, SOUNDS LIKE ARQ BUT ISN'T ! PACTOR ? (RH2)
15857.6 MFA Rome/Ankara 1445 RS-ARQ 228.5 w/tfc til 1530 (ANEE)
15861.8 unid 1151 ARQ-E 96/383 idling [not seen before on this freq.] (PB)
RFFXI: FF BANGUI 1725 ARQ-E 96/390 IDLING. (RH2)
15898.2 RFGW: MFA PARIS 0716 FEC-A 192/392 1034 x 5LG's ! PITY THE DECODER! (RH2)
15918.8 CFH: Halifax 1320 RTTY 75/1300! "NAWS DE CFH", usually 15920 75/850. (FH)
15929.5 Brazil Station "DE ERMSAL PARA ERMBRA NR 46 ZYD13 ROTINA" (exercise in PP) "EXERCICI RIPT" 1330 RTTY 75/850 guess this is ZYD13, ZYD11 on 14001.0 w/similar msg monitored here last month. (FH)
15942 OMZ: MFA Bratislava,SVK 0950 RTTY 100bd News (AB)
15946 MFA Bratislava 1154 RTTY 100/436 nx-items (PB)
15956.7 MFA Khartoum 1445 PACKET 300 wkg/2 unid African embassies til 1545. (ANEE)
15961.7 RFLI: FF Fort de France 1741 ARQ-E3 192 idle, no id. (BvR)
RFLI: French Forces, Fort de France, Martinique 1618 ARQ-E3 192/425 w/Non Protege tfc from RFFKHMN to Burlifam, Brest, on C.I. BFL. (RB)
RFLI: FF FORT DE FRANCE 1120 ARQ-E3 192/400 IDLING. (RH2)
15965 CLP??: Cuban Diplo 1513 RTTY 75bd/500 crypto separated by "+++++" ends "tengo las prensas" (MC)
15988 PCW: Du Emb Accra 1857 F7B4 100 mgs to Pcw1. (BvR)
15991.5 Emb. Indonesia in Riyadh? [no ID] 1211 ARQ-S 96/209 tfc in Malay (PB)
16015.4 DOR: MFA SOFIA 1128 RTTY 75/425 NX/EE. (RH2)
16020.4 MFA Rome 0715 RS-ARQ 228.7 wkg/madrid? til 0730 (ANEE)
16030.4 Unid: 1634 RTTY 75/859 UNID, TUNED OK TO BAUDOT. GBGE ON SCREEN! (RH2)
16035 KYODO 0913 FAX 120/576 NEWSPAPER IN JJ. (RH2)
16041.7 AA3USA: Army MARS 1500 PACKET 300 wkg/AA6USA til 1600 (ANEE)
16045.3 Unid: 1627 Mode? 100/856 UNID, UNABLE DECODE. (RH2)
16059.2 Russian Mil 1119 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
16060 V5G: Bucharest 1420 ROU-FEC w/nx bulletins in Roumanian (I think) When I listened this morning 15833 was on running ROU-FEC but not in parallel. Both signals were so powerful that makes me wonder if the transmissions are really from Bucharest or possibly Washington? (ES)
16072 Unid: 1545 ARQ-E 100bd testing? til 1630 (ANEE)
16077.9 PARIS, DE PARIS 8804 1610 ARQ-E3 192/384 "DE PARIS 8804" ON IAH cid. RFFXI: FF COMELEF BANGUI 1705 ARQ-E3 192/384 TFC/FF TO RFFUAJ/ CENTOMFAP VILLACOUBLAY. RFFTB: FAF VILLACOUBLAY 1658 ARQ-E3 192/384 5LG's TO RFTJD LIBREVILLE. RFFAAS: GUERRE DIRMAT PARIS 1545 ARQ-E3 192/384 TFC/FF TO AIG1955 & MANY OTHERS RE DUD GRENADES! RFFAK: DISTRANSIT PARIS VINCENNES 1650 ARQ-E3 192/384 TFC/FF TO RFFAAV ECCOAPLISANTE GRACE PARIS. RFFXIA: FF AIRGROUP BANGUI 0935 ARQ-E3 192/374 625 x 5LG's TO RFTJD FF LIBREVILLE. (RH2)
16087.9 RFVI: FF LE PORT 1005 ARQ-E3 100/388 "CdeV" ON REI cid. RFVIPP: MXAIR MOYENOPS ST DENIS 1000 ARQ-E3 100/388 TDC/FF TO REGI0NAIR AIX. (RH2)
16091.7 MFA Cairo 1700 ARQ wkg/Embassy Washington til 1745 (ANEE)
16106.8 SAM: Stockholm 1325 SWD-ARQ SWD msg to Ambaddaden Baden, Santa Fe de Bogota, Col, off 1328, back on 1330 w/msg to Ambassador in Guatemala. (FH)
16106.9 SAM: MFA Stockholm 1443 SWD-ARQ 100 swe mgs. (BvR)
16111 MFA Berne 0730 ARQ ack ckt beamed eastward (ANEE)
16122.7 Unid 1622 Mode? 50/816 UNID, UNABLE DECODE, NIL IN WUNLOGS, OFTEN HEARD. (RH2)
16125.4 RFQPT: FAF MILFRANCE JIBOUTI 1511 ARQ-M2 200/395 6 PAGES OF 5LG's. (RH2)

16136.5 XINHUA Beijing 1320 RTTY 75/425 w/EE nx (TD2)
16149.6 Unid: 0710 PICCOLO (RH2)
16150.6 CLP1: Havana (or Cuban Emb elsewhere?) 1414 RTTY 50/500 at tune-in "Eso es todo" & off. (FH)
16155.5 Piccolo at 1300 can't decode, reported as Moscow MFA. (FH)
16184.5 CLP18, Cuban Emb., Baghdad, IRQ 1630 CW + RTTY 75/500 vvv's + id in CW fol'd at 1632 in RTTY w ryry & "felix iaz voy a bajarte whisky pagame en checque 1234567890 (CLP18)" then msgs/SS & crypto after zzzzz (RM)
16213 MFA Paris 1715 ARQ6-90 200bd wkg/Embassy Dakar? w/lots of 5l gps til 1745 (ANEE) Dakar 1131 ARQ-6/90 200/400 5lg's,"svc dipl",MFA France. (ED)
16227.7 Unid (still) 1310 ARQ-E 96/400 idling for several months, once sending rows of dots, guess GG Emb or Bonn running test. (FH)
16228 YBU Havana? 1400 RTTY 75/480 RY's at 1400 weekdays, QRU & off or 5LG's some days & off around 1417. (FH)
16232 W3S: French Emb Islamabad PAK 1150 FEC-A 192/850 w/5LG's (ML2)
16238 G7M: FRENCH Emb Bangkok THA 0920 FEC-A 192/850 clg P6Z Paris,0930 5LG's (ML2)
16242 G7M: French Emb Bangkok THA 1040 FEC-A 144/850 w/5LG's; TJN: French Emb Beijing CHN 0840 FEC-A 192/850 w/5LG's (ML2)
16244.9 Unid: 1100 RTTY 75/850 w/"VKX VKX VKX" then RY's, "QRU SK". (FH) (SOUD/Brotherhood station -LOGS)
16245 G7M: French Emb Bangkok THA 0930 FEC-A 192/850 clg P6Z,msg FF,5LG's (ML2)
16251.8 Unid: 1017 ARQ ?? UNID. STRANGE CHIRPING NOISE? (RH2)
16266.7 ASP32: Pakistani MFA, Islamabad 1543 TWINPLEX-1w 100bd/140 NX in EE to all embassies marked "foreign ibd" (MC)
16270 OMZ: MFA Prague 1450 RTTY 75 encrypted mgs. (BvR)
16290.5 CLP1: Havana 1097 RTTY 50/1000 circular 1097 in EE designed for U.S. consumption, dated 2 days earlier so probably a rerun. (FH)
16305.2 Unid 1026 RTTY 75/516 UNID, 5LG's w/EE WORDS AT END. USN DIEGO GARCIA? (RH2)
16313 CLP1: MFA, Havana, Cuba 1559 RTTY 50/400 w/minrex nx, RYRY & ID, then w/circulars. (RB)
16315.2 Unid 0705 Mode?? 70/499 UNID. (RH2)
16321.7 Unid: 1115 ARQ ends "bybyby" (MC)
16326 Romanian Embassy 1106 ROU-FEC 218.3bd/400 MSGs in Romanian (MC)
16335 St Dennis Meteo REU 0910 FAX 120/576 w/wx charts (TD2)
16340 MFA Bucharest 1007 ROU-FEC 218.26/396 encrypted tfc (PB)
16342 Russian Diplo 1122 CROWD-36, selcal mode (MC)
16347.8 Unid 1440 FEC "TO ONOMA", at 1445 to USB fone. (FH)
16349.2 Unid 1500 ARQ Greek? to 1517. (FH)
16351.7 To or From CLP-12 Lima 1338 RTTY 75/500 5L code msg same as 16351.9 then "ESO ES TODO" & off 1345. (FH)
16351.8 Chinese Diplo 1240 4+4, idle (MC)
16351.9 To or From CLP-12 Lima 1320 RTTY 75/500 5L code msg. (FH)
16355 Unid: 1813 RTTY 50 Embacuba bissau? 5fgs. (BvR)
CLP1: Havanna 1430 RTTY 50b 5FG's, Op in SS at end of trans says..only 7 liters gas left in generator, he is asking for a more efficient transmitter to get more air time. (ED)
16386.7 Pakistani Embassy, Delhi 1501 TWINPLEX-1w 100bd/140 MSGs in EE to Islamabad ends "parep newdelhi". Pakistani Embassy, Tripoli 1058 ARQ Opchat to MFA Islamabad. Pakistani Embassy, Lagos 1459 TWINPLEX-1w 100bd/140 MSGs in EE to MFA Islamabad. Pakistani Embassy, London 1500 TWINPLEX-1w 100bd/140 MSGs in EE to MFA Islamabad. Pakistani Embassy, Brussels 1458 TWINPLEX-1w 100bd/140 MSGs in EE to MFA Islamabad. Pakistani Embassy, Paris 1502 TWINPLEX-1w 100bd/140 MSGs in EE to Islamabad ends "parep paris". ASP32: Pakistani MFA, Islamabad 1057 ARQ MSGs and long opchat in EE to Embassy Tripoli (MC)
16460 French Diplo 1515 ARQ6-90 200bd/400 idle in IRS mode (MC)
16501.7 Egyptian MFA, Cairo 1456 ARQ in IRS mode (MC)
16601.7 Unid 1345 ARQ strong, mostly receiving. (FH)
16662.4 Piccolo at 1355 can't decode. (FH)
16683.5 YLGN: Atmoda 0147 ARQ admin/payroll tlx to RTF Bedina, QSY 16699.5 at 0215, selcall 60684. (AB2)
16685.5 3EIK8: M/V Atlantic Star 1945 ARQ w/tlx re status of cargo loading, is 10,601 DWT reefer w/login 42715 ASTR. (RB)

16687.5 3FDP: M/N Presidente Frei 1539 ARQ 14,436 DWT dry cargo vsl, w/tlx using name abbreviation "DTE FRE" re vsl bound Puerto Cabello, Ven, login 42972 3FDP. (RB)
16689 HBDL: MV Grischuna 0830 ARQ w/AMVER logoff 51234 HBDL (TD2)
16690.5 MWNT5: Ametist 1636 ARQ req Panama Canal transit from Panama Canal Commission, bound Willemsted from Pusan, login 232002682. (AB2)
16693.5 C6OD4: Houston 1822 ARQ posn report 25.48N/90.45W, selcall 70142. (AB2) ELFO3: Mv Rhine Forest 24851 1208 ARQ tlx tfc. (BvR)
16696.5 9HYN3: Chance 1943 ARQ AMVER/PR msg to AMVER NYC & ETA Sabine Pass pilots. (AB2)
16701 GQEX: MV Forthbank 1415 ARQ enrt Mumbai-Mombasa w/ETA (TD2)
16705 C6SB: Mv Irish Sea 70055 1227 ARQ amver via wlo. (BvR)
C6LU3: Mv Albe 27614 1234 ARQ sc xvsv, obs co/ch wlo. (BvR)
PJGI: Mv Spring Bear 1728 ARQ amver co/ch wlo. (BvR)
16708.5 UYAF: Odesskiy Komsomolets 1802 ARQ outbound Maracaibo averaging 10 kts. (AB2) 9HRP3: CHEMICAL EXPORTER 1015 ARQ msg to Goeteborg w/eta for Ashdod login 13679 CHEXPORTR. (HOOD)
16711.5 V2QG: MV Tagama 1340 ARQ w/ETA Douala logoff 26640 V2QG. (TD2)
16713.5 C4OU: Sea Muse 2021 ARQ status report. (AB2)
16715 3FZS3: MV Frio Antarctic 0807 ARQ w/tech report logoff 42450 FANT. (TD2)
16770 C4ZB: MV Coryton 1410 ARQ w/pay tfc logoff 29636 (TD2)
16770 C6ID8: MV Snow Crystal 1310 ARQ w/ETA Gdansk logoff CRYS (TD2)
16777 DZK: Bulacan Radio PHL 1425 FEC w/press reports logon DZK/DZJ/DZX. (TD2)
16780.5 N/A: SUPER LADY ARQ wkg unknown vsl with opr chat and msgs for relay to EASTMED. (HOOD)
16782 9HIW4: MV Selia 1400 ARQ w/ETA San Pedro logoff 9HIW4 (TD2)
16787 UCBW: BMRT NIKIFOR PAVLOV 1618 RTTY 50/170 crew TGs and admin from Km Zaritskiy to UGW. (HOOD)
16788.5 UOUI: SVETLOGORSK 1050 RTTY 50/170 CREW TG's TO ODESSA. (RH2)
16791.5 UNID: 1150 FEC TFC/EE ENDING "NIL DE KADYO 73 K". (RH2)
16792.5 Unid 1730 FEC EE nx from Manila repeat. (FH)
16798 Unid 1805 FEC EE nx from Manila relayed to this station by satellite & then transmitted to us. (FH) Unid 1015 FEC relay of press & sport-items (by ship??): "item5 = peso rate at p26.26 - 1 u.s. dollar recent by .. sr/sr .. the ati-atihan boy ... from kalibo, aklan may god bless us all ... 73 nnnn recent by ---- ice ice baby--bon voyage -----" then end of transmission, somebody any clue?? -- (PB) (all of these: 16791.5, 16792.5, 16798 & 16800 are relays of nx sent by Bulacan Radio via Filipino crewed ships to other Filipino crewed ships, there are different skeds on different freqs for various areas of the worlds oceans & seas -LOGS)
16800 Unid 1450 FEC EE nx from Manila relayed to this station by satellite, off at 1450, "back to centro for CFM NNNN", "relayed by JS7/Victorias Boy" & "Press Report via MICKK". (FH)
16801 UUZU: TKH VEGA 1436 RTTY 50/170 admin from Km Loginov (leaving Mer el Kebir) to KAALBYE SHIPPING, Odessa via UUI. (HOOD)
16802 9VG: Singapore Radio 0945 ARQ wkg MV Laodiki II PG3X2 (TD2) (sure it was 16802? -LOGS)
16802.1 TH PRAVDINZK 1220 RTTY 50/170 CREW TG's W V'VOSTOK. (RH2)
16802.5 UVDV: RTMKS Lira (KM Kowalenko) 0840 RTTY 50/170 w/crew tgms (TD2)
16807 9VG: Singapore Radio 1400 FEC w/tfc list (TD2)
16808 SPA: GDYNIA R. 1055 FEC MARKER & SELCAL INFO. (RH2)
16810.5 FFT81: ST LYS R. 1201 FEC TFC/LIST & METEO INFO. (RH2)
16820 IAR: Rome Radio 1322 ARQ w/CW Marker "IAR" and tuning burst. (DW)
16829 USU: MARIUPOL RADIO 1450 ARQ sending list of telex address code, incl MARAVIA for wx to Mariupol and ODSPOG for wx to Odessa. (HOOD)
16830.5 SVU6: ATHENS RADIO 1215 FEC tfc list. (HOOD)
16839.5 UFN: NOVOROSSIYSK RADIO 1313 ARQ msg to UPXP: TKH VALERIY CHKALOV from Novoship Agency, using Selcal 55049. (HOOD)
16880 XSQ: GUANZHOU RADIO 1052 ARQ tfc to BRUF: MV QI MENG SHAN, Sel 20159. (HOOD)
16893 USU: MARIUPOL RADIO 1225 FEC info circulars to all ships in "RADIO ADRES DVA". (HOOD)
16898.5 UAT: MOSCOW RADIO 1055 ARQ tfc to UIBT: TKH FAVORIT. (HOOD)
16927 UIW: KALININGRAD RADIO 1059 RTTY 50/170 crew TG to EUHG: TR CHUKOTSKIY BEREG & listening 16621.5/12426.5/8364.5. Same 1630 admin

to BATM ZAOSTROVE using c/s UEVB (is ex LYMM). UIW: KALININGRAD RADIO 1059 RTTY 50/170 Same 1637 admin to BATM KONDRAT BILYUTIN for Km Abolmasov using c/s UATZ. Same 1649 crew TG to J8LZ5: MV JUNO ENDEAVOUR. Same 1653 crew TG to UAUF: BATM ALEKSANDR KSENOFONTOV (is ex LYFK). (HOOD)
16955 YLQ: Riga radio 1017 FEC msgs. (BvR)
17084 CFH: Halifax 1900 RTTY 75/850 usually encryption. (FH)
17384 TNNR: French Emb Antananarivo MDG 0740 ARQ6-90 200/400 w/5LG's (ML2)
17441.8 5YE: NAIROBI METEO 1118 RTTY 100/850 RY/ID. (RH2)
17445.9 5YE: NAIROBI METEO 1120 FAX 120/576 V.G. WX CHART. (RH2)
17461 MFA Ankara 0730 RS-ARQ 228.7 also 240.1 til 0830 (ANEE)
17464.7 MFA Cairo 0745 ARQ wkg/Embassy Niamey til 0815 (ANEE)
17465.4 Unid 1118 RTTY 75/868 TUNED OK BUT GBGE ON SCREEN. (RH2)
17490 ILMD: French Emb Islamabad PAK 0740 ARQ6-90 200/400 w/5LG's (ML2)
17520.7 Unid 1120 GUESS PACTOR. (RH2)
17535 8WA53: Indian HiCom Colombo SLK 0630 RTTY 50/850 clg 8WD87 New Delhi w/QRU (ML2)
17551 RFTJ: FF DAKAR 1130 ARQ-E3 192/367 IDLING. (RH2)
18045.8 DFZG: MFA BELGRADE 1405 RTTY 75/435 RY's/ID THEN 3LG's, THEN CRYPTO. (RH2)
18054.6 MSF Africa? 0900 ARQ french logistics msgs (ANEE)
18056 CLP: Cuban MFA, Havana 1802 RTTY 50bd/500 Central American NX in SS. (MC)
18064 SNN299, MFA Warsaw, POL: 1125 CW mkr (ANDL) MFA Warsaw 0900 POL-ARQ 100 wkg/Embassies Lisbon, Madrid til 0945. (ANEE) SNN299: MFA WARSAW 1133 POL-ARQ 100/284 UNABLE DECODE. (RH2)
18181 MFA ALGIERS ? 1353 COQUELET WUNLOGS SAY THIS IS MFA ALGIERS. (RH2)
18203 Polish Embassy, Harare 0645 POL-ARQ 100bd/200 MSGs in Polish to MFA Warsaw (MC)
18220.9 CNM76/X9: MAP News, Rabat 1000 RTTY 50bd/400 NX in EE abt Moroccan geological surveys (MC)
CNM76: MAP RABAT 1136 RTTY 50/404 NX/FF.//18255.1,18265.1, 18275.1, & 18285.1 (RH2)
18241.9 ZRO4: Pretoria Meteo, S. Africa 1110 RTTY 75bd/400 Met reports for SA airports and Zimbabwe forecast (MC)
18246.7 Egyptian Embassy, Sanaa 1500 ARQ 5LGs signed "dr mahmoud mortada (ambassador)" (MC)
18251.7 MFA CAIRO 1435 ARQ 5LG's SIGNED kdkjf huxd. (RH2)
18255 CNM: Rabat or Tanger 1615 RTTY 50/400 MAP FF nx, also at 1715, //13585.9 used to get CNM78 on 18265. (FH)
18338.8 5AF: TRIPOLI AIR 1428 RTTY 50/351 RY/ID - HAS IT EVER SENT ANYTHING ELSE??? (RH2)
18340.6 CLP1: Havana 1430 RTTY 50/500 SS msg to many Embacubas. (FH)
18365 Unid: 1120 FSK 100bd/850 UNID System, sync, cont, ACF=0 (MC)
18365.5 Unid: 1431 ??? 96/850 UNID, OFTEN HEARD, STRONG SIGS! (RH2)
18411.5 Indonesian MFA, Djakarta 1421 ARQ-M2 96bd/170 MSGs in Indonesian to Stockholm, Kabul etc (MC)
18493.9 Unid: 1422 RTTY? 96/827 UNID, UNABLE DECODE. (RH2)
18529.6 Unid: 1033 VFT: 3ch of 96bd/170 FEC-100, idle on RQ (cf 14431kHz)(MC)
18530.8 Unid: 1033 VFT: 3ch of 96bd/170 FEC-100, idle on RQ (MC)
18531.7 Unid: 1034 VFT: 3ch of 96bd/170 FEC-100, idle on RQ (MC)
18566 MFA Dhaka BGD 0500 FEC-A 144/850 w/local nx EE (ML2)
18648.5 SOT: PAP pol 1808 FEC nx. (BvR)
18648.5 SOT265B PAP WARSAW 1414 FEC NX/POL. (RH2)
18756 JPA: INTERPOL Tokyo, Japan 0405 ARQ Test w/Interpol Bangkok followed traffic in clear. (MS4) (very rare log these days! -LOGS)
18812.5 MKD: British Mil 1842 VFT: 2ch of Piccolo-6, eng. ch calling MUH (MC)
18812.9 MKD: British Mil 1920 VFT: 2ch of Piccolo-6, tfc ch idle (MC)
18846.7 Egyptian MFA, Cairo 1116 ARQ idle in IRS mode (MC)
19011.7 Unid, presumed PCW1 1550 ARQ msg in Dutch to Botswana. (FH)
19110 Unid: 1058 RTTY 75bd/850 crypto (MC)
19216.7 Unid: 1730 ARQ-E 96/443
19224.5 Unid: 1415 ARQ idling in receive mode to 1423 & off. (RB)
19236.7 Unid: 1407 Mode? BUDGERIGAR SOUND NOT HEARD BEFORE! (RH2)
19296.5 Unid: 0948 FEC Opchat in SS "5/5 pero abrio makina" (MC)
19350.4 Unid: 1403 Mode? UNABLE DECODE. (RH2)
19376.9 UNID: GUESS II DIPLO 1140 ARQ-E 96/175 HAVE PICKED UP 11/DIPLO TFC/II/EE/ BEFORE ON THIS FREQ. (RH2)

19400.1 VVD69: Delhi Meteo, India 1025 RTTY 50bd/100 AAXX WX (unstable TX). (MC)
19412.1 UNID: 1040 RTTY 75/491 5LG's ENDING "CFM TKS GB SK SK". (RH2)
19462.9 STS22: Khartoum 1718 RTTY 50/206 SUNA nx in EE. (FH)
19567.7 Egyptian MFA, Cairo 1500 ARQ in IRS mode (MC)
19642 Unid: 1830 COQUELET-8 166/706 kqkkxqkuxqvqkxkkx & so on (RT2)
19853 V5G***: Romanian MFA, Bucharest 1103 ROU-FEC 164.5bd/400 crypto (Bitmask=24) (MC)
19860.4 MGJ: RN FASLANE 1325 RTTY 75/823 TEST TAPE. (RH2)
19888 Unid: 1506 RTTY 100bd/850 Reversals then short crypto MSGs lead-in "ggggggg" (MC)
20215.4 Unid 1320 RTTY? 75/838 MODE? (RH2)
20600.4 MKK? RAF LONDON? 1358 RTTY 75/841 LOGS SAY THIS IS MKK RAF LONDON. (RH2)
20663 Unid: 0915 rtty 50/425 rtty press service in a unid language.This station is aslo heard here at around 1800 on 16239.5. (MS4)
20950 UNID: 1020 ARQ-E 192/177 UNID, CRYPTO, WUN SAYS THIS IS GG BND. VG SIGS! (RH2)

=MARITIME=

438 OXZ: Lyngby Radio,DNK 1113 CW w/various vessels (AB)
443.5 FFU: Brest Radio,F 0620 CW Wx (AB)
444.5 PCH: Scheveningen Radio,HOL 2049 CW Tfc list (AB)
448 SVA: 2118 CW Athens R. wx (CK)
448.5 LGT: Rogaland Radio,NOR 2200 CW Tfc list (AB)
1609.5 LGB: Rogaland Radio,NOR 2330 CW marker (AB)
1677 OFH, Mariehamn R: 1820 USB w/UBEU, QSX 2102 kHz ch.:255, 2035z EE nav/warn, wx (ANDL)
1692 SPC, Gdynia R, POL: 1937 USB EE/PP wx (ANDL)
1704 OXZ, Lyngby R, DNK: 2135 USB EE nav/warn (ANDL)
1713 PCG, Scheveningen R, NLD: 2138 USB EE wx, // 1890 kHz (ANDL)
1728 LGN, Bergen R, NOR: 2044/2138 USB EE/NN nav/warn, tfc lst (ANDL)
1734 Lyngby R, DNK: 2106 USB EE/DD wx //1758,2586 kHz, I found only OXB/Blaavand R, so any relay ? (ANDL)
1758 Lyngby R, DNK: 2036 vmf/mm EE, id, 2037z nav/warn, 2107z EE/DD wx, tfc lst //1734,2586 kHz. I found listed OXB/Blaavand R and OXJ/Torshavn R, so any relay ? (ANDL)
1794 SPO, Szczecin R, POL: 2038 USB EE tfc lst (ANDL)
1869 GKZ, Humber R, G: 2139 USB EE navigation warning (ANDL)
1890 PCG, Scheveningen R, NLD: 2138 USB EE wx //1713 kHz (ANDL)
1905 SAB: Goteborg Radio,S 2332 ARQ Tfc to several vessels (AB)
1946 GND: Stonehaven Radio,G 1917 USB Phone patch (AB)
2040 Vessel ICRT, m/m Ruby Star: 2050 USB wkg Crotone R, QSX ? (ANDL)
2045 Vessel C6MT3, m/m Green Lily: 2045 USB wkg Lisboa R, QSX ?, req collect call. Vessel ICRT: 2248z w/Crotone, later QSY 2040 kHz, QSX ?(ANDL)
2046 Vessel (MIss Karoo?): 2230 USB EE wkg Vessel English man, QSX 2246 kHz (ANDL)
2069 Vessel (Tema?): 2256 USB w/Messina R, QSX 2789 kHz, telegram (ANDL)
2102 Vessel UBEU: 1820 w/Mariehamn R, QSX 1677 kHz ch.:255 (ANDL)
2123 Vessel IBMA: 2044 USB w/La Coruna R, QSX ? (ANDL)
2182 Palma Radio,E 2338 USB Ann tfc list. EJM: Malinhead Radio,IRL 2110 USB Ann nav. wng. (AB) OFH/Mariehamn R: 1820 USB clg UBEU QSY 1677, QSX 2102 kHz =ch.:255; GKR/Wick R 1834 USB w/GDDL QSY ch.:E, at 1948 w/Vessel Sinclair, QSY Ch.E, 2012 USB w/Vessel St.Louis, QSY Ch.E, 2007 USB w/Grampian Cruisador, QSY Shetland Ch.C, 1856 USB w/MLKJ6, QSY Ch.C, 2049 USB w/GCQR m/m Jane Viking QSY Ch.A, 2225 USB Wick w/GUYK, QSY Ch.E FFB/Boulogne s/Mer R: 1835 USB Securite ann. FF Nav/Warn on 3795 kHz. Vessel m/m Verga, ITDW: 1845 USB clg Cagliari & Civitavecchia. Vessel (Miss Karoo?): 2225 USB wkg Vessel English Man, QSY 2246 kHz sx. Vessel MVEH7, f/v Sandingur: 2055 USB c/Valencia. ICB/Genova R: 1848 USB w/ELSD QSY 2722 QSX 2477 kHz, 2043 USB Sec ann fr n/w on 2642 & 2591 kHz, 1938 USB II/EE ann fr wx on 2722 kHz. Vessel ITDW: 1917 USB c/Cagliari. SPO/Szczecin R: 2037 USB ann fr tfc lst on 1794 kHz. Vessel 9AEF: 2108 USB c/Ancona R. ?-Shetland CG-?: 2115 USB w/MSUQ9 (m/m Far Service) QSY sx 2596 kHz. Vessel EAIO: 2137 USB c/Valencia R. Vessel PDTP, m/m Dutch Navigator: 2147 USB clg Bengazi R, no reply. GPK/Portpatrick R: 2140 USB w/GYWZ

QSY ch.Y, 2051 USB w/GAAL, 2121 USB w/FZZV, f/v Bisson. Norddeich R: 2045 USB EE ann fr tfc lst on 2614 kHz. IPP/Palermo R: 2047 USB w/UNID QSY 1852 kHz. EJM/Malin Head R: 2104 USB w/MRNC8 Vessel f/v Port of Ayr QSY 1677 QSX 2102 kHz/ch.255. Vessel 9HBV5: 2225 USB clg Messina R. Vessel EAYW: 2310 USB c/Valencia. Vessel Expresso Venezia: 2104 USB clg Ancona, QSY 2198 kHz. OXY/Lyngby R: 2107 USB ann fr tfc lst on 1758/1734/1704/2586 kHz. GKZ/Humber R: 2138 USB ann fr n/w on 1869 kHz. Vessel EFWN, f/v Gomistegui: 2150 USB c/Valentia R. GKZ/Humber R: 2213 USB w/Vessel OUUR5 m/m Nord-Energy, 2135 USB ann fr tfc lst, n/w on 1869 kHz. Vessel SVQQ, m/m Sminoussa: 2148 USB c/Rhodos. Vessel J8QU6: 1920 USB w/Norwick R, QSY Ch.C. Viking Viper: 1921 USB w/ Viking Radio (any infos ??) Vessel ICNM, m/m Pascoli: 2036 USB c/Portotorres R. Vessel MRNC8: 2038 USB c/Valentia R, 2116 USB w/ Cork R. "I listen 1752 kHz". Vessel MHRL: 2154 USB c/Valencia. Vessel (Tema?): 2255 USB w/Messina R, QSY 2069 QSX 2789 kHz. GND: Stonehaven R: 2155 USB w/MTKM5. 2146 USB w/GUJB QSY Ch.Y, 1920 USB w/2AWV QSY Ch.I, 1946 USB w/C6JI8, m/m Widgeon QSY Ch.Y, 2109 USB w/MKXT7,QSY Ch.I, 2125 USB w/MQEL7,s/v DEA Fighter,QSY Ch.I, 2136 USB w/MLSX2 m/m Seabound Sovereign,QSY Ch.I, CUL/Lisboa R: 2016 USB w/C6MT3, QSY ? QSX 2045 kHz. Vessel EGUC: 2021 USB c/Valencia. IPB/Bari R: 2039 USB II/EE machine voice, ann fr n/w on 2579/2663 kHz. ICBC, Vessel Carducci: 2129 USB c/Napoli, QSY 2222 kHz. GCC: Cullercoats R: 1833 USB SEC ann fr n/w, tfc lst on 2719 kHz. Vessel SVTB, m/m Thalassoporos: 1911 USB wkg Limnos R. IZN/Porto Torres R: 1944 USB II/EE ann fr wx on 2719 kHz. SPC/Gdynia R: 1936 USB EE/PP ann fr wx on 1692 kHz. LGN/Bergen R: 2137 USB EE/NN ann fr n/w on 1728 kHz. DHS/Ruegen R: 1849 USB GG ann fr wx, tfc lst on 2775 kHz. PCG/Scheveningen R: 1935 USB wkg V2UG, QSY 2824 QSX 2510 kHz. OSU/Oostende R: 2235 USB ann fr n/w on 2761 kHz. "Tuerk Radio": 1949 USB TT clg by UNID turkish Vessel (infos ?). "Guardian" 1956 USB clg DB102 in dutch. Vessel IBMA: 2043 USB w/La Coruna R, QSY 2123 kHz. Vessel MVFG7: 2137 USB w/Hebrides R, QSY Ch.Z Netherlands CG: 2137 USB EE ann fr wx fm Scheveningen R on 1713/1890 kHz. Vessel 9HYM3, m/m Karomaleas: 2025 USB w/Rogaland R, QSY Ch.426. 4XO/Haifa R: 2236 USB clg 9AON. LZW/Varna R: 1908 USB EE ann fr wx on 3740 kHz. Viking (Venguard??) 2128 USB w/Viking Viper, 2318 USB w/Norwich R QSY ch.:C. Viking Viper: 1921 USB w/Viking Radio (Infos pse). Russian spoken simplex Net: 2045 AM, sounds like ships, spurious ??? but AM !!?? (ANDL) PCSH: Mv Antarus 2010 USB clg pbk abt distress. M/V Marinus 1211 USB clg mv Pauwgracht. (BvR)

2198 Vessel Expresso Venezia: 2105 USB w/Ancona R, QSX ?, pp (ANDL)

2222 Vessel Bocaccio: 2028 USB clg Napoli R, QSX ? no answer, 2038 USB w/Palermo, QSX ?. ICVU, Vessel m/m Carpaccio: 2025 USB w/Cagliari R, QSX ?, later QSY 2470 kHz. ICBC, Vessel m/m Carducci: 2129 USB clg Napoli, no answer, 2130 USB wkg Civitavecchio R. 2222 kHz seems to be an all-italian-coastal-stn-QSX channel ? (ANDL)

2246 Vessel English Man: 2226 USB EE sx wkg Vessel (Miss Karoo?), too weak fr QSO on this ch., English Man req. Miss Karoo to QSY 2046 kHz duplex (ANDL)

2351 German Ships: 1815 USB sx GG, legal ship-ship-freq. ? (ANDL)

2470 ICVU, Vessel Carpaccio: 2030 USB w/Cagliari, QSX ?, pp (ANDL)

2520 Vessel V2UG: 1936 USB wkg Scheveningen R, QSX 2824 kHz (ANDL)

2579 IPB, Bari R, I: 2040 USB II/EE machine voice nav/warn, // 2663 kHz (ANDL)

2586 OXZ, Lyngby R, DNK: 2107 USB EE/DD wx, tfc lst, //1734,1758 kHz (ANDL)

2614 DAN, Norddeich R, D: 2045 USB EE tfc lst, QSX 2023 kHz (ANDL)

2643.5 SPS: Witowo Radio,POL 2259 CW marker (AB)
SPS, Witowo Radio, POL: 2345z CW id: DE SPS/TOR K, no ARQ (ANDL)

2649 Marseille R, F: 2312 USB FF Securite, wx. I have only TKM/Grasse R listed, maybe relay ? (ANDL)

2663 IPB, Bari R, I: 2040 USB II/EE nav/warn, // 2579 kHz. On 2663 I found only IPC/Crotone R, so maybe Crotone relays Bari ? (ANDL)

2691 GND: Stonehaven Radio,G 2236 USB Wx (AB)

2719 GCC, Cullercoats R, G: 1834 USB EE nav/warn, tfc lst, 2241 USB with relay fm Wick R: tfc-lst (ANDL)

2722 ICB, Genova R, I: 1939 USB II/EE wx (ANDL)

2727 DAN, Norddeich Radio, D: 0210z ARQ CW-id: DAN (ANDL)

2730 SVL: 1533 USB Limnos R. wx (CK)
2761 OST: Oostende Radio,BEL 2238 USB Nav. wngs (AB)
OSU, Oostende R, BEL: 2236 USB EE nav/warn (ANDL)
2775 DHS, Ruegen R, D: 1850 USB GG wx, tfc lst (ANDL)
2789 IDF, Messina R, I: 2256 USB w/Vessel (Tema?), QSX 2069 kHz (ANDL)
2795 ESA: Tallinn Radio,EST 2241 CW marker (AB)
2799 SVH: 1533 USB Iraklion R. wx (CK)
2830 SVR: 1533 USB Rodos R. wx (CK)
3008 German Ships: 2055 USB GG sx, legal german ship-ship freq. ? (ANDL)
3070 Filipino Sailors/Ships Net: 0040 USB m sx vn/EE, stns: RRV, DB, EMM, ment "welcome to the club". See 3080/3077 kHz (ANDL)
3074 Filipino Sailors/Ships Net: 0020 USB m sx vn/EE, short side-QSY fm 3077 kHz (ANDL)
3077 Filipino Sailors/Ships Net: 2335 USB m sx vn/EE, sort of check-in tfc, mni mni stns, stns: Major, RMM, OV, CR, ES, DLS, EVR, RRV, FTT, JS, RIB, SLD, MR, EP1, DCI, EIR, RAA1, EAB1, GBB1, DBB1, WVT, JJ, etc., Callings e.g.: Major Major Romeo Romeo Victor (Major act as net-control ?), using: break-break, roger, standby, how-do-u-copy, good-morning, radio-check, etc. phrases, using NATO/ICAO spelling, abt 0030z EE PHL-home-newscast, after finish: cfm-tfc, hrd over mni weeks see 3070/3074/3080 kHz (ANDL)
3080 Filipino Sailors/Ships Net: 0030 USB m sx vn/EE ment.: "DJK, DZK, Manila, Philippines Broadcast News", giving a cross QRG: 16540 kHz (an official ww ship-ship sx QRG), id: RO, RMM, RMJ, etc., see 3070/3077 kHz, 3077 seems to be the primary QRG, hrd every night. Any chance to ID any of that stns ? Calls shorties of official Calls?, stns must be in EU, a legal operation fm PHL ships in Aero-OR band ? (ANDL)
3108 German Ships: 2115 USB GG sx net, QSY to "Erste Acht" (first eight), legal german ship-ship freq. ? (ANDL)
3128 UNID polish: 0035 USB PP sounds like news-casting, ment: "informaczi", news fm/to ships by ?? (ANDL)
3542.7 GNK: Norwick Radio,G 1536 CW marker (AB)
3607.3 GKZ1: Humber Radio,G 1959 CW marker (AB)
3740 LZW, Varna R, BUL: 1909 USB EE wx (ANDL)
3743 SVX: 1535 USB Chios R. wx (CK)
4077 WA3133: Mary E. Hannah 0106 USB Great Lakes tug (Hannah Marine), wkg WLC w/wx obs. WQZ9671: M/V Edgar B. Speer 0244 USB 34,620 DWT self-unloading bulk carrier (United States Steel Great Lakes Fleet), wkg WLC w/wx observation. WXQ4511: Str Edwin H. Gott 0527 USB 35,592 DWT self-unloading bulk carrier (United States Steel Great Lakes Fleet), wkg WLC w/wx observation. WB4520: M/V Calcite II 0532 USB 8,188 DWT self-unloading bulk carrier (United States Steel Great Lakes Fleet) built 1929, wkg WLC w/wx observation. WA4659: Str Medusa Challenger 0533 USB 6,967 DWT self-unloading Great Lakes bulk carrier (Medusa Concrete) built 1906, wkg WLC w/wx obs. WYZ3931: M/V Stewart J. Cort 0558 USB 32,930 DWT self-unloading Great Lakes bulk carrier (Bethlehem Steel), clg WLC no joy. UIIE: TKH Vilyam Foster 0605 USB clg/wkg WLO Mobile Radio, re R/T call to Russia, ships posn Havana, Cuba. (RB)
4092 MPNV4: 3COM 2105 USB several long pp's. MPNW4: Ocean Rover 2003 USB w/pp. BT Challenge yacht. (AD2) MPNV4: 3COM 1940 USB wkg GKT20 for pp. 2/3 way across Biscay. MPNW4: Ocean Rover 2003 USB wkg GKT20. Middle Bay of Biscay. Bit lumpy. Crew all well. MWSC2: Unid 2021z USB. Also at 2035. Single call to Portishead/GKT20 each time. Short delay each time as GK presumably brings up Tx. Interrogative who is clg but no further response from this UNID. MPNX4: Concert 2103 USB wkg GKT20. Indicates wind 25-30 knots and they are close reached making 9-10kts. A little rain. All going well. MPNW4: Ocean Rover 2206 USB Wkg GKT20 w/pp. N/A: Time & Tide 1830 USB end of pp via GKT20. MPNW4: Ocean Rover 1833 USB clg GKT20. MPNW4: Ocean Rover 2120 USB wkg GKT20 for pp. (DW) C6LW2: M/S Regal Empress 0303 USB Royal Caribbean Cruise Lines, 23,000 DWT cruiseship, clg/wkg WOO for R/T tfc holding for passengers on board. (RB)
4131 Italian shipping network 2005 USB HF meeting place for 'marconisti'. (AB)
4143 Italian shipping network 2023 USB HF meeting place for 'marconisti'. (AB)

4145 Italian shipping network (same net as 4143 USB) 1913 ARQ Various marconisti chatting. No shipnames only persons (AB)
4146 KBP394: Seacor Base, Morgan City, La 0451 USB wkg vsl Seacor -? re ETA. (RB)
4149 WBN7618: Tug Explorer 0505 USB Crowley Maritime tug, wkg WPE w/posn 2600N/8708W, ETA. WBN3345: Tug Navigator 0511 USB Crowley Maritime tug, wkg WPE w/posn 2142N/6723W, status. WBN5929: Tug Ranger 0512 USB Crowley Maritime tug, wkg WPE w/posn/status. WBN3011: Tug Pilot 0518 USB Crowley Maritime tug, wkg WPE w/posn 3801N/7435W, status. WBN3022: Tug Centurion 0528 USB Crowley Maritime tug, wkg WPE w/posn 2059N/7407W, status. WBN3013: Tug Century 0530 USB Crowley Maritime tug, wkg WPE w/posn 3611N/7340W, status. WBN6511: Tug Gauntlet 0532 USB Crowley Maritime tug, wkg WPE w/posn 2130N/7007W, status. WBN2079: Tug Daring 0534 USB Crowley Maritime tug, wkg WPE w/posn 2758N/9622W, status. WBN5040: Tug Pioneer 0537 USB Crowley Maritime tug, wkg WPE w/posn 2558N/7544W, status. WBN5050: Tug Gladiator 0550 USB Crowley Maritime tug, wkg WPE re waiting for dock to clear, ETA of the other tug leaving. (RB)
4183.5 LYES: 1825 CW clg PCH20 no answer (on clg ch.6/group II), 1828 clg PCH20 on 4184 (clg ch.3/common ch.) also no reply fm PCH20. (ANDL)
4184 6KRV: Dong Won No.606 1116 CW tfc w/unid shore station. (AB2)
4194 H8XM: MV MSC FRANCESCA 1818 CW msg to Geneva w/eta for Istanbul. (HOOD)
4210.5 IAR: Rome Radio 2023 CW Marker "IAR" and tuning burst. (DW)
4216.5 IAR: Rome Radio 2025 CW Marker "IAR" and tuning burst. QRM fm SAB maritex. (DW)
4241.5 LGW, Rogaland Radio, NOR: 1750 CW mkr: CQ DE LGW LGB LGJ LGX = TFC FOR ELQK7 J8FW2 UE2JZ = LAEY4 LAQY4 = QSX 4185 8368,5 12552,5 16736,5 KHZ AND LGQ/LGT 500 KHZ (ANDL)
4250 PCH20, Scheveningen Radio, NLD: 1755 CW mkr: DE PCH20 4 K (ANDL)
4253.5 HZG: Dammam Radio 2120 CW 'de HZG qsx ch 3/4/9' (PB)
4262 LZL2: Bourgas Radio, BUL: 1759 CW de-mkr (ANDL)
4274 GKB2: Portishead Radio,G 2145 CW Wx (AB) GKB2, Portishead Radio, G: 1800 CW tfc-list, 1804z mkr: DE GKB QSX CH 2/3 (ANDL)
4292 IAR24: Rome Radio 1904 CW Wx forecast in Italian then in EE at 25wpm. (DW)
4298 PPO: Olinda radio 0505 CW mkr. (BvR)
4303 OXZ2: Lyngby Radio,DNK 2142 CW Tfc list (AB)
4320 IAR4: Rome Radio 1957 CW Marker "vvv de IAR k 4 8 12 16 22 = lsn 22 MHz and reply 16 MHz" (DW)
4331 9AR: Rijeka Radio,HRV 20.44 CW marker (AB)
4331 WCC: Chatham, MA 0204 CW marker. (BDS)
WCC: Chatham radio 0455 CW tfc lst. (BvR)
4343 WLO: Mobile, AL 0203 CW wx report.(BDS)
4343 RKLM: ARKHANGELSK RADIO 1930 CW CQ (to 4LY) and listening on 425/2540/4183.5/6278.5. (HOOD)
4346 9AR: Rijeka Radio,HRV 21.29 CW marker (AB)
4357 KMI: AT&T Coast Station California 0645 USB wkg unid vsl WCQ6304 for R/T tfc. (RB)
4363 WCC: Chatham radio 0459 USB tfc lst. (BvR)
5750 ARIS: Greek Coast Guard HQ Piraues 1603 USB with urgent storm bulletin for South Ionian Sea. (CK)
6227 WCF4433: Mister Jean 0809 USB Tidewater Marine tug, wkg KZU Harvey w/status, ETA. WCF4640?: Rio El Bravo 0814 USB clg KZU Harvey, no joy. 3EMV5: M/V Seaboard Intrepid 1108 USB 10,208 DWT Ro/Ro cargo vsl (Seaboard), wkg WHV384 "Miami" w/ETA, then relays tfc for M/V Seaboard Courier (unk c/s); ELRV8, M/V Seaboard Ocean (9200 DWT Ro/Ro); and ELRV7, Seaboard Carribe (9200 WT Ro/Ro). (RB)
6230 USCG New Orleans 0217 USB wkg unid fishing vsl, QSY to 3023. (HF)
6286.5 UFGG: TKH LADOGA 3 0636 CW admin from Km Egorov to UCW4. (HOOD)
6340.5 9VG9, Singapore Radio, SNG: 1600 CW mkr: CQ DE 9VG9/6340.5 KHZ QSX 6MHZ CH 1345710 (ANDL) 9VG9: Singapore Radio 1325 CW marker -cq de 9vg9 /6340.5. (MS4)
6357 SAA, Karlskrona Radio, S: 1750 CW mkr: CQ DE SAA = NIL TFC = QSX H24 500/4195/6292.5/12425 KHZ = QSW H24 500/6357 kHZ = FOR QRJ CALL 4/6 MHZ = NNNN, 1755z mkr: see above, else: = TFC FR UFIX ULFI UOYA = (ANDL) SAA: Karlskrona radio 1811 CW de mkr. (BvR) SAA: KARLSKRONA RADIO 2106 CW tfc list (for EURQ, ULJG and UOHO) & listening 500/

4195/6292.5/12425. Same at 0953 CW msg to 3FIR3: TKH BALTIJAS CELS. (HOOD)
6371.5 RKLM, Archangelsk Radio, RUS: 1605 CW mkr: 4LY DE RKLM QSX 425/ 2540/4183.5/6278.5 K, what is 4LY ? hrd often ard this time (ANDL)
6380 UCW4 ?, Sankt Petersburg Radio, RUS: 1600 CW mkr: CQ DE RJFY/UCW4 QSW 4223/6380/8505/12765 KHZ (ANDL)
6400 UON: BAKU RADIO 1824 CW msg to 4JDS: TKH GAZANFAR MUSABEKOV and 4JGZ: TKH BESTEKAR FIKRET AMIROV. (HOOD)
6416 WLO: Mobile Ala 1507 CW strm tracker data hortense/fausto (RT2)
6420 SWTQ: AL-22: Greek Customs Cutter 1044 USB wkg base. SWRD: AL-24: Greek Customs Cutter 0525 USB wkg base. (CK)
6425 UGC, Sankt Petersburg Radio, RUS: 1615 CW mkr: DE UGC QSX 6/8/12/16 K (ANDL)
6465.5 ROD7: MURMANSK RADIO 0640 CW CQ and tfc list. Freqs as 4295.5/6465.5. (HOOD)
6485 ESA: TALLINN RADIO 0700 CW tfc list (for 9HXM4 and V2SS) giving freqs as 450/454, 6485/6279.5, 12723/12553 and 17077/16737. Was also sending on 6405. (HOOD)
6491.5 JOS, Nagasaki Radio, J: 1539 CW mkr: CQ DE JOS QSX 8 MHZ K (ANDL)
6491.5 VCS: CCG Halifax 2210 CW ice wrng. (BvR)
6501 N?? 2200 USB Unid uscg wx. (BvR) (NMN, CAMSLANT w/offshore wx & voice reader at this time/freq -LOGS)
6513 VCS: CCG Halifax CG Rdo, NS 0205 USB w/wx for the maritimes in EE/FF. (RB)
7950 Aussie fishing 0710 USB Much swearing,usual tfc. (AW)
8101 Australian fishing vessels 0910 USB tfc on intership ch. (AW)
8176 VIM: Melbourne radio, AUS 0310 USB Long wx broadcast. (AW)
8213 5TA: Nouadhibou radio, Mauritania 0625 USB Long Arabic tfc. (AW)
8222 C6NR9 0605 USB clg Rijeka radio in EE. (AW)
8234 3FCT4: UNID 2316 USB Wkg WOM. sounded like "Golden...." any ideas anyone? (IB)
8240 Commercial Union (BT Challenge yacht) 0853 USB 41N 09W Doing taped broadcast. MPNW4: Ocean Rover (BT Challenge yacht) 0936 USB Booking pp for 10:00 radio interview. Time & Tide (BT Challenge yacht) 1010 USB Posn 3950N 0922W w/pp's. (AD2) 3COM 2330 USB woman on yacht 3COM placing calls, got answering machine on one, said she would try again tomorrow night at same time. OCEAN ROVER 2338 USB man on Yacht OCEAN ROVER talking with girl friend, mentioning having a hairy night of it w/boat tipping beam to beam. CONCERT 2358 USB man on yacht CONCERT placing call to check on his dog, mentioned to woman that their generator was out, also that they are just north of the Canary Islands and currently in 3rd place. (BC) MPYQ3: Nuclear Electric 1721 USB calling GKU46. N/A: Commercial Union 1759 USB wkg GKU46 for pp. MPNV4: 3COM 1848 USB calling GKU46. MPXJ3: Toshiba Wave Radio 1848 USB wkg GKU46 for pp. YL on pp - went distorted. Tried Channel 410 but no better. Tried revert here but breakup. MPNW4: Ocean Rover 1859 USB wkg GKU46 for pp. Off the southern tip of Portugal. Lumpy seas. 30 kt N wind. Making 12 kts. Food excellent and crew happy. MPNV4: 3COM 2018 USB wkg GKU46 for pp's. Getting warmer and heading for the Canaries. Going very well + fast. MPNV4: 3COM 2128 USB wkg GKU46 but unable establish pp's. MPNW4: Ocean Rover 2133 USB wkg GKU46. 120 miles W of Cape St Vincent. Quite rough. 30kt wind. Spinnaker up and making 12-13 kts. (DW) GQIM: HMS Herald 2054 USB Clg Portishead, QSY>4092. MPNW4 Ocean Rover: 2237:USB: BT Challenge yacht Wkg GKU46 80nm N.E. of Madeira & gained 3m on Group4. Breakfast of Egg & Bacon this morning. MPNX4 Concert 2257 USB BT Challenge yacht Wkg GKU46.---yacht in 3rd place at time of logging (IB)
8255 Costa Marina 1759 USB Wkg Roma Radio. (IB)
8273 HLS: Seoul radio 0918 USB pp to unid vessel. (AW) (probably the reverse unid vsl wkg HLS since this is a ship freq -LOGS)
8279 J8FS6: TKH CITY OF TOBOLSK 1829 USB wkg Helsinki Radio for pp (a sea-river cargo vsl, ex OMSKIY 33). (HOOD)
8285 NVLA: USS Vella Gulf (CG-72) 0256 USB concluding R/T tfc w/WOM. (RB)
8294 Vsl "Proper lady" 0653 USB clg "Elusive" both US accents. (AW) WBN3014: Patriarch 0059 USB tug, wkg fellow Crowley tug Gaunlet, WBN6511, Patriarch bound Cape Verde. KEB313: Unid limited coastal 0107 USB sta, wkg a vsl w/status, this was may have been KCE313, Broughton Inc, in Los Fresnos, Tx, (closet match). WSF2730: El Falcon

Grande 0051 USB tug, wkg KZU Harvey w/posn rpt. (RB)
8346 UACW: TKH VOLGO-BALT 227 1802 CW tfc for UBO3 (replying on 8570).
UJSO: TKH VOLGO-BALT 240 0648 CW msg to "RADIO PTRZ" (UBO3). (HOOD)
8357.5 UUZU: TKH Vega 2149 CW w/DISP-1 reports to Odessa Radio, also sends tfc for TKH Kapitan Aleksev. (RB)
8363 UWGG: PREZIDENT PIK (RTMS-7534) CW crew TGs to UBF2. (HOOD)
8366 ENZG: Serebryansk 1506 CW clg 9VG no joy. (AB2)
8367.5 6LHY: 77 Gae Yang 1159 CW tfc. (AB2)
8368 BOGZ: Yu Cai 1510 CW tfc QSY 4 Mhz. (AB2) C4AN: M/V South Islands 2059 CW 15,147 DWT dry cargo ship clg unid coastal station. (RB)
8369 ELOM7: Centurion 0127 CW clg CWA, QSY 8370 @0130. (AB2)
8370 JFEI: Iyo Maru 0143 CW w/ETA Manzanillo. (AB2)
8374 UYAF?: TKH Kapitan Adgladze 2101 CW Ukrianian-flagged vsl, w/admin tfc in CW to Mariupol, c/s not used but logged another time this month using UYAF, no prior info for Kap Adgladze. (RB)
8378 9HDA3: MV LINA 0656 CW msg abt bulk wheat cargo via TAH. (ITU name is "DINA", but copied several times as "LINA/9HDA3"). (HOOD)
8404 URWM: TKH IZMAIL 1012 CW wkg unknown station as "M/V IZMAIL/URWM" w/eta for Thessaloniki. (HOOD)
8408 LZDT: MV ADALBERT ANTONOV 2114 CW Bulgarian bulker w/crew TG to Varna via LZW42. (HOOD)
8440 VCS: CCG Halifax CG Rdo, NS 2320 CW w/CQ marker & "HF services to end 30 Sept". (RB)
8453 VAI: Vancouver, BC, CAN 0040 CW marker. (BDS) VAI: CCG Vancouver, B.C. 1145 CW 24 wpm Can vai qsx 4/6/ 8/ 12/16/ mhz. (RT2)
8457 OFJ: Helsinki Radio Finland CW w/ ID marker..(PT)
8466 UIW: KALININGRAD RADIO 0953 CW tfc for 3FIR3: BALTIJAS CELS. Vsl is a fish carrier, ex BEREG BALTIKI. Same at 1301 CW ID, tfc list and freqs in blocks as a/ 8466/12973/17152, b/13054/16927/19724.4, ... & phone 8764/12356/16531/17311. (HOOD)
8472.5 A7D: Doha Radio 1931 CW "de A7D" (PB)
8474 JYO: Aquaba Radio 1901 CW Marker "cq de JYO qsx 8/12 gcc 3 4 9 k". Then offair. (DW)
8483.5 DAN: Norddeich Radio 1645 CW message about service termination, as posted by other WUNers. (CK) DAN: Norddeich Radio 1040 CW Advisory in slow cw "cq de DAN = info = with effect from 1st October 1996 Norddeich Radio will cease the complete radiotelegraphy service on HF ++ ". Continuous. (DW) DAN: Norddeich Rdo, D 2325 CW w/ann that DAN is ceasing radio telegraphy Oct.1, 1996. (RB) DAN: Norddeich Radio UTC? CW w/loop running w/EE text about the closure. (RRR)
8484.5 HZG: Damman Radio, ARS 2358 CW w/QSX marker. (RB)
8496 CLA: Havana, Cuba 0105 CW traffic in SP. (BDS)
8510 FFS4: St. Lys Radio 1905 CW "de FFL4/68 FFS4" wx & tfc list (PB)
8515 5AT: Tripoly radio 1810 CW vvv de 5at. (BvR)
8521 VIP: Perth Radio 1557 CW Wx or qtc list? then marker "cq de VIP k" at 0801 Sending tfc to unid ship. (DW)
8522.5 FFL4: St.Lys Radio,F 0840 CW Wx (AB)
FFL4: St Lys Radio 0806 CW Accepting tfc fm ship. (DW)
8530 IAR28: Rome Radio 1943 CW Wx forecast in EE at 25 wpm. (DW)
8530 IAR28: Rome Radio (IAR28) 2000 CW Marker "cq de IAR for rqstng blind tfc lsn on 521.5 4292 8530 13011 17160.8 22634 as" - for rqstd tfc blind trnsmssn pse lsn our tfc list and if tfc for you as" then list. Blind tfc to IBXE.(DW)
8541 LYL: Klaipeda Radio,LTU 0838 CW marker (AB)
LYL: Klaipeda Radio Lithuania CW w/ ID marker..(PT)
8559.5 GKB4: Portishead Radio,G 1509 CW QSX msg (AB)
8565 D3E51: Luanda Angola 1640 CW marker- CQ DE D3E51 (MS4)
8570 UBO3: PETROZAVODSK RADIO 1830 CW with tfc list & listening 8346/4194. (HOOD)
8571 JNA: 1411 CW Mkr (SZ) (Japanese Maritime Safety Agency, JMSA, Tokyo - LOGS)
8573 CLA: Havana Radio 0840 CW cq qsx/qsw (PB)
8582.4 KLB: Seattle, WA 0147 CW marker. (BDS)
8589 HPP: Panama Radio 2217 CW Marker "vvv cq de HPP = qru? qrj? obs qsw 500 kHz/4.275kHz/8.589kHz/12.699kHz/17.232.4kHz and rtty channel 1208/1633/all amver msgis with qsj" "IBRU de HPP qrj 1204/13 86/12.239 ok". (DW)
8595.5 UFL: Vladivostock Radio 1521 CW w/NAVAREA wngs and "nil de UFL".(TD2)

8602 CWA: Cerrito Radio 2224 CW Marker "cq de CWA qsx 4/6/8/12/16/ 22 MHz c 3/4/9/10 k". (DW)
8610 UCE: Arkhangelsk Radio 2204 CW tfc list (PB)
8611.5 TAH: Istanbul Radio 0854 CW tfc in Turkish (PB)
8614 URL: Sevastopol Radio 2150 CW Marker "cq de URL" pse ans 8358.5/ 12468.5" then offair. (DW)
8618 KPH: San Francisco, CA 0149 CW marker. (BDS)
8630 WCC: Chatham radio 2236 CW vvv mkr. (BvR)
WCC: Chatham Radio 2151 CW "vvv de WCC qsx 4 6 8 12 16 22 mhz" (PB)
8642 KPH: San Francisco, CA 0150 CW marker. (BDS)
8657.7 WLO: Mobile, AL 0200 CW marker, modulation of tones was "funny" (rise/fall time was longer than normal; propagation or xmtr problem?? (BDS)
8662 TAH: Istanbul Turkey 1645 CW marker- CQ DE TAH (MS4)
TAH: Istanbul Radio 0906 CW tfc list (PB)
8665 XSG: Shanghai Radio, CHN: 1755 CW mkr: CQ DE XSG QRU? BK (ANDL)
XSG: Shanghai Radio 2228 CW Marker "vvv de XSG hr tfc list as" then tfc list. (DW)
8670 IAR, Rome Radio, I: 1750 CW mkr: VVV DE IAR K 4 8 12 16 22 = LSN 12 MHZ AND REPLY 16 MHZ (ANDL) IAR8: Rome Radio 1954 CW Marker "vvv de IAR k 4 8 12 16 22 = lsn 22 MHz and reply 16 MHZ" (DW)
8680 WSC: Tuckerton Radio, NJ 2135 CW "cq qsx 6 8 12 16 mhz" and wx msg about tropical storm Josephine. (PB)
8682 EAD3, Madrid Radio, E: 1750 CW mkr: DE EAD3/EDZ6 QSX 8 12 16 AND 22 MHZ CG + (ANDL)
8687 SVA4, Athens Radio, GRC: 1745 CW mkr: DE SVA4 (ANDL)
SVA4: 2118 CW Athens R. wx (CK)
8687.5 UGC, Sankt Petersburg Radio, RUS: 1745 CW mkr: DE UGC QSX 6/8/12/16 K (ANDL)
8688.5 ZSC6: Capetown Radio 2236 CW Marker "cq de ZSC ar k k ". (DW)
8691 XST, Qingdao Radio, CHN: 1740 CW cq-mkr (ANDL)
8692.5 SVD4, Athens Radio, GRC: 1740 CW mkr: DE SVD4 (ANDL)
8700 9AR: Rijeka Radio Croatia CW w/ ID marker..(PT)
8704 SVB4, Athens Radio, GRC: 1740 CW mkr: DE SVB4/5/6 QSX 8 CH 4 (ANDL)
SVB4: 2013 USB Athens R. "DE SVB3/4/5/6 QSX 12 CH 4" (CK)
8706 JOS, Nagasaki Radio, J: 1735 CW mkr: CQ DE JOS QSX 8 MHZ K (ANDL)
8716 Athens Radio, GRC: 1735 USB m GG tfc, ch.:837 (ANDL)
8722 BVA: Taipei radio 0900 USB EE Voice Mirror "This is BVA Taipei Radio transmitting for circuit adjustment purposes". (AW)
8728 SPC43: Gdynia radio, POL 0850 pp to unid vessel in RR. (AW)
8749 PCG: Scheveningen radio 0714 USB tfc lst. (BvR)
8764 Portishead Radio 2135 USB in contact with Ocean Rover (MPNW4) One of the crew was being interviewed by a commercial radio station about his part in the challenge. (AM) PORTISHEAD Radio 2220 USB w/three yachts from the BT Global Challenge. (BC)
8803 5BA48: Cyprus radio 1015 USB Long list of orders. (AW)
8803 OHG: HELSINKI RADIO 1826 USB wkg UJHI: TKH VOLGO-BALT 206 and UMVI: TK VOLGONEFT 135 for phonepatches. (HOOD)
8806 FFL41: St. Lys Radio (F) 1455 USB f EE w/ICZX, req. QSY ch.1226 (FFL61:13152/13305 kHz). 1457z w/Val Grande, pp. QSX 8282 (ANDL)
12290 LAZB2: Nordic Challenger (oiler) 2307 USB clg what sounded like Matraeso Prienta. Contact made at 2315. (RM)
12299 Toshiba (BT Challenge yacht) 1610 USB Crew pp to South Africa. Save The Children (BT Challenge yacht) 1832 USB near Canary Is. heavy QRM moved ch. 816 still vy. busy. (AD2) Global Teamwork 1249 USB BT Challenge Yacht Wkg Portishead. SXVJ m/v Akmi: 1300 USB Wkg Portishead. off Egypt. Commercial Union 1543 USB BT Challenge yacht Wkg Portishead. MPXJ3:Toshiba Wave Warrior 1546 USB BT Challenge yacht Wkg Portishead. was 3m ahead of leaders this morning. Wx v.warm - female crew in Bikini`s!! MWSF2: Time and Tide 1802 USB BT Challenge yacht Wkg Portishead. Save The Children 1802 USB BT Challenge Yacht Clg & Wkg Portishead. MPYQ3: Nuclear Electric 1804 USB BT Challenge yacht Wkg Portishead. Party onboard today w/Whiskey & Champaign. "Group 4 is 100nm West of us". MWSE2: Motorola: 1859 USB BT Challenge yacht Wkg Portishead. GUCL: HMS Invincible: 1829 USB Clg Portishead R. (IB)
12359 VAX498 2002 USB wkg unid vsl heading to Bermuda. (HF) (Herb Hilgenberg who uses the alternate callsign Southbound II Coastal

passing wx info to yachts -LOGS)
12458 URUS: TKH BORIS BUTOMA 1030 CW relaying part of tfc list from UFN. Calls were all tankers. (HOOD)
12474 UJGA: T/K VOLGONEFT 261 0645 CW admin from Km Romakhin to UJE. UHTD: TKH OMSKIY 143 0655 CW admin from Km Moskalenko to Genoa with eta for Chioggia via UJE. (HOOD)
12659.5 9VG37: Singapore 0316 cw marker -cq de 9vg37. (MS4)
12662 7TF8: Boufarik radio 1643 CW cq de qsx, also at 1325. (BvR)
12663 CBV: Valpariso Radio 2056 CW Marker "vvv de CBV qsx 8 12 16 and 22 MHz k". (130 hz high) (DW)
12671.5 YLQ: Riga Radio 1500 CW vri high speed qtc list.(DW) YLQ: RIGA RADIO 1930 CW tfc list, currency rates and freqs as 442/4335/6341.5/ 12671.5/ 17181. (HOOD)
12693 UGC: St. Petersburg radio 1700 CW cq de qsx. (BvR)
12695.5 UWS3: KIEV RADIO 1430 CW tfc list & listening 8357.5/12443.5.(HOOD)
12712 HLW3: Soul Radio 1645 CW cq de. (BvR)
12735 URL: SEVASTOPOL RADIO CW crew TGs to 3FVB4: FRIO ADRIATIC & listening 12458.5/16658.5. (HOOD)
12736.5 TAH: Istanbul r 1739 CW de tah. (BvR)
12765 RJFY: St. Petersburg radio 1819 CW msgs. (BvR)
12801 TAH: Istanbul radio 1318 CW cq de. (BvR)
12856 XSG: Shanghai radio 1315 CW cq de. (BvR)
XSG: Shanghai Radio PRC CW w/ ID marker..(PT)
12887.5 EAD44: Madrid Radio,E 0829 CW marker (AB)
12912.6 FFL6: St. Lys radio 1813 CW CQ mkr, also at 1033. (BvR)
12952.5 VIP: Perth Radio 1603 CW Marker "cq de VIP k" . At 0809 sending tfc to "Coral Islander". At 1553, End of wx warning. Svc bulletin re watchkeeping change effective 1st Sept. Return to marker "cq de VIP k". (DW)
12966.7 A7D: Doha Qatar 0342 CW marker- CQ DE A7D (MS4)
12967 UJE: NIZHNY NOVGOROD RADIO 1526 CW msgs to UAHS: TK INZHENER SHLEM. Vsl is a 3704GRT sea-river tanker, built 1995 and regd Astrakhan. (HOOD)
12969 XSU: Tianjin radio 1200 CW tfc lst. (BvR)
13002 KPH: San Francisco 0130 CW cq marker (BDS)
13011 IAR23: Rome Radio 1949 CW Wx forecast in English. (DW)
13029 SVB5: Athens radio 1725 CW de svb qsx. (BvR)
13033.5 WCC: Chatham radio 1025 CW qsx. (BvR)
13042.5 PJC: Curacao Radio 2002 CW Marker "CQ de PJC qsx 8/12 MHz k" (DW)
13055 UTQ7: KIEV RADIO 1542 CW CQ and listening 8341/12436/16639. (HOOD)
13065 ESP: PARNU RADIO 1500 CW tfc list and crew TG to LYAB: NARVOS ILANKA from Tallinn, then listening on 8355/12447. Tx freqs as 8535/ 13065/17107. (HOOD)
13077 Unid: 2130 USB ch 1201 QSO EE (RT2)
13092 Unid: 2112 USB ch 1206 QSO in EE/II (RT2)
13152 VIP: Perth radio 0112 USB wkg "Ray Milland" Aussie vsl. (AW)
16363 GACG: HMS Argyll 2053 USB Wkg Portishead. (IB)
16450 Unid Chinese stn 2320 USB General call to all ships. (AW)
16546 Unid Russian stn 2330 USB pp in Russian. (AW)
16912 SUH: Alexandria radio 1137 CW cq de. (BvR)
16923.6 OFJ: Helsinki radio 1135 CW ofj qsx 8 mhz. (BvR)
17013 5BA: CYPRUS RADIO 1243 CW ID and freqs as 8623/17013 with tfc list for ERYS: TKH OMSKIY 113 and UJXQ: TKH SIBIRSKIY 2130.hip Agency, using Selcal 55049. (HOOD) 5BA: Nicosia Radio Cyprus UTC? CW w/marker. (PT)
17016.5 KPH: San Fran. R., Ca. 1457 CW 21 wpm cq re kph kph trf list qsw/ships trfc. (RT2)
17026 KFS: San Fran. R., Ca. 1512 CW 28 wpm cq de kfs kfs qsx = 4/6/8/12/16/22/mhz. (RT2)
17091 XSQ: Guanghzou rdo 1945 CW cq de. (BvR)
17164.8 ZSC7: Cape Town rdo 1642 CW de zsc. (BvR)
17184.8 KFS: San Fran. R., Ca. 1541 CW 27 wpm qsx 4/6/8/12/16/22 mhz S10dB. (RT2)
17198 HZG: Damman Radio Saudi Arabia CW w/ ID marker. (PT)
17198.3 HZG: Dammam radio 1637 CW de hzg. (BvR)
17198.9 PCH60: Schevenigen rdo 1621 CW de pch 60 ch6 k. (BvR) PCH60: Schevegingen R, Nld 1556 CW 18 wpm de pch 60 ch 6 or 60 not sure (RT2)

17239.7 PKX: Jakarta rdo 1339 CW de pkx qru. (BvR)
18484.5 HZG: Dammam Radio, Saudi Arabia 0857 CW, "de hzg qsx ch 3/4/9" (off frequency TX?) (MC)

=MILITARY=

122.3 OUA: Danish navy Stevns,DNK 1248 CW DE OUA (AB)
1356 4XZ: Israeli Navy Haifa 1356 CW VVV de 4XZ 4XZ BT BT. (CK)
2268.5 FDG, FAF Bordeaux, F: 0230 CW v-mkr (ANDL)
2357.5 OUA32: Danish navy Stevns,DNK 2317 CW NAWS broadcasts (X21C, D21X, D23X) (AB) OUA32, DMarine Stevns, DNK: 0220 II-mkr: II II DKR OVK 11/12/20/21/25/33 ZNI1 = ZKR OVK 14/23/33/35/135/145 A1A = II II BCST U21C OUA25/38 = ... = = II II CALL TAPE ON OUA23/OUA33 = (ANDL)
2429 MKL, RNy Pitreavie, G: 0007 CW, ... = ZOM DE MKL GR 18 = UAJ JM7 MF7 FTP YYW XDV .... = PP TAFS = ..., and wx (ANDL)
2510 DSK: German navy,D 2035 USB w/LBA and LPG. Radio checks, then into 75bd RTTY (AB)
2680 4XZ, INy Haifa, ISR: 0210 CW v-mkr (ANDL)
2800 4XZ, INy Haifa, ISR: 0200 CW v-mkr (ANDL)
2815 IDR8, INy Rome, I 0155 CW mkr: VVV DE IDR8 (ANDL)
3116.5 Rescue Gdynia?? 0542:USB: Clg SVL. Sounded just like `Gdynia` but w/a silent `G`. Made contact after 10+ minutes with difficulty, but I could not hear `SVL` (IB)
3143 OVERFLOW 0357 called PRESTLEY (sounds like). Also MAGNAVOX called NIGHTWATCH 01. At 0457z, MAGNAVOX called and raised NIGHTWATCH 01, but did not hear NW01. (JH) CLEANCUT 0505 USB clg NIGHTWATCH 01 on "Z115", checks into the net. (RB)
3146 FDG: French Air Force Bordeaux,F 1932 CW VVV marker (AB)
3295 WAR 46 0732 USB clg NIGHTWATCH 01 for a radio check on Z-120. No joy. (JJ)
3365 RIT: Moscow Naval, RUS 2000 CW wkg ships. (JD2)
3382.5 FDG, FAF Bordeaux, F: 0010 CW v-mkr (ANDL)
3782 CTP, NATO/PNy Lisboa, POR: 2035 CW mkr: VVV DE CTP QSX 4 6 8 12 MHZ + (ANDL) CTP: NATO, Lisbon 2130 CW, "vvvv vvvv de ctp ctp qsx 4 6 12mhz" (MC)
3832 FDC: French Air Force Metz,F 1530 CW marker (AB)
3836.5 FDE14, FAF (but where?), F: 1825 CW v-mkr: VVV DE FDE14 + (ANDL)
3837 P/RMP: Russian navy Kaliningrad,KAL 2000 CW Channel marker 'P' at 2000 UTC followed by c/s 'RMP' and wx for Baltic area. Then 'P' again for ca. 2 mins then s/off. (AB)
3864 Kinloss Rescue, G: 1906 USB wkg 177, r/c. 1911z wkg Rescue 131 app Orkney is avail. fr Humber Coast (ANDL)
3881 FAV22, FA Mont-Valerien, F: 1440 CW v-mkr: VVV DE FAV22 QLH 3881/6825 KHZ, 1444z: start of CW lessons by machine, start w/header: LECON 12-1/1 VITESSE 600 COD, LECON = Lesson in french, 5 ltr grps, also header: LECON 1T-1/2 VITESSE 420 CLAIR (CLAIR=clear) followed by open french text, next: LECON 11-1/3 VITESSE 420 CODE & 5LG's. hrd daily over weeks, // 6825 kHz (ANDL)
4134 L: RUSNAV St Petersburg 1355 CW SLHFM. (CK)
4145.5 DELTA-6-KILO 0100 USB working ZULU-0-YANKEE and many others. Coordinating fire control & data traffic. EXERCISE UNITAS? USN/USMC type chatter. (JJ)
4154.5 DRAV: FGS Karlsruhe (F-212) 0305 USB German Navy type-12 frigate, wkg DHJ59, Wilhelmshaven Naval w/QSL of RTTY msgs. (RB)
IGRO: 2100: USB: UNID INy Vsl Wkg ICT. (IB)
4163 UNID 1231 USB Heavy ANDVT comms. One station booming here so must be local. Anyone know who uses this freq? (EA)
4168.5 IGJ, INy Augusta, I: 1835 USB II/EE w/IGPI, aka: PI, coded tfc (ANDL)
4260 TBA2: Turkish Navy Ankara 2112 CW 'vvv TBA2/3/4' (PB)
4275 TBA5: Navy Ankara,TUR 2143 CW marker (AB)
TBA5: Turkish Navy Ankara 2058 CW 'vvv TBDJ de TBA5/7 qap' (PB)
4325 R: Russian navy Ustinov,RUS 2250 CW Channel marker (AB)
4331 4XZ, INy Haifa, ISR: 1810 CW coded tfc (5lg's & 6 ltr T-grps, e.g. TKSMUP TEKXUA), 1814z VVV-mkr, 1815z tfc (ANDL)
4372 MISC: 0308 USB Sound like some net coordination activity on 4372 kHz. Callsigns 1NH, 1RA, Giant Killer, 8FX heard. Also mentioned 1OX, 4CQ. Mention of event sked 1430Z-1830Z. (EC) (GIANT KILLER is USN FACSFAC for Virginia Capes Op's Area -LOGS)
4442 EXECUTIVE-1-FOXTROT, C-9, 0455 USB wkg Andrews VIP w/pp to SAM

COMMAND: Departed Denver 0350z ETA Boeing Field 0620z. (Just heard the tail-end of this) Andrews VIP 0426 USB checking SAM 681 on secondary. On the way back to primary "F-731" (6683.0) SAM 681 said he was going "monitor" which could mean 681 is on the ground at present re-fueling. (It's not wise to transmit when Jet-A is being splashed around.) (JJ) Andrews VIP 0645 USB clg EXECUTIVE ONE FOXTROT (a/c w/member of President of U.S.'s family on-board, most likely Hillary), for signal ck. (RB)

4472 NIGHTWATCH 01 0705 USB called SHAMROCK. (JH) NIGHTWATCH 01 0200 USB wkg WAR 46 & others. NIGHTWATCH 01 0251 USB wkg WAR-46 & MUDDUCK.(JJ)

4491.5 CRC Borckzetel(GE) ROUND UP UTC? USB wkg Navy units (GD3)

4510 PICADILLY CIRCUS (American accent), RAZOR 01 and DILLON 68 (sounded that way) 1720 USB w/unid ground station. (JJ)

4560 HMCS NANAIMO (MM-702) 0200 USB wkg Halifax Military. (JP)

4580 ZERO-7 1608 USB receiving traffic from BLACKSHEEP. BLACKSHEEP is too weak here to make out, but I did catch 07 say "repeat after deployed." From BLACKSHEEP's cadence, it sounds like he could be passing coord stuff.(JJ)

4610 SAM 29000, SAM 049, and AF1 0204 USB wkg Andrews VIP w/signal chks. (JJ)

4708.5 FDG, FAF Bordeaux, F: 0115 CW v-mkr (ANDL)

4721 AF1, SAM 29000, & SAM 049 0330 USB wkg Andrews VIP w/signal chks. Followed w/SAM 049 wkg Andrews VIP for pp to Peterson Base Ops. DSN 834-4778 (JJ)

4724 OFFUTT, 0038 USB as lead GHFS station, with 20-character EAM "FOR TACAMO PAC PRIMARY" at common h+38 transmission minutestamp for these things. OFFUTT, 0055 USB as lead GHFS station, w/68-character EAM (PKFBUR..). (JH)

4742 Architect,G 1200 USB Celebrity broadcast. Architect,G 1204 USB w/IFN81 (a VC10). Selcal check AJKM. Architect,G 0628 USB w/P60 & A6S. Radio checks. Architect,G 1532 USB w/IFN51 eta Lyneham, selcal LMBJ. Architect,G 1553 USB w/Kittyhawk 4, selcal EMBQ. Architect,G 1611 USB w/Ascot 5547, selcal AJDE. Architect,G 1624 USB w/3SV, radio check. Architect,G 1719 USB w/Kittyhawk 5, selcal LMBD. Architect,G 0617 USB w/A550, selcal AKBG (AB) IFB 15 1127 USB Architect, req wx for LIPY and LDZA. Tartan 42 1200 USB Wkg Architect for a radio and selcal check EF-AJ (VC-10K1 Tanker aircraft Tail No. XR806) V4A 1327 USB (Nimrod) Architect, req wx for EGQS (Lossiemouth). Aladin F 1319 USB Architect, good UHF comms. with RAF Valley closing down HF. M4Z 0925 USB (Nimrod) Architect, req wx actuals for EGQS, EGDL, EGVN. (ANUK) RRR5511 1736 USB Architect/req.EGYC actual wx.sel/AKBG (XV290 C130). P3Q 1737 USB Architect/ops normal,req. relay to OPCON:-U0H ? (AW) GOLD 84: 1440 USB wkg Architect w/ selcal ck AK-BD. (CH) Starling 1 and Starling 2 0827 USB two RAF Chinook Helis enrt to RAF Odiham, Wkg Architect. (IB) Andrews VIP working Air Force One, SAM 049, & SAM 682 w/signal checks, etc. And all a/c wkg each other for same. No word on what the other freqs are yet. (JJ) 8SD38: Helicopter? 1340 USB wkg Architect. Req relay to Lister Operations est RTB Odiham at 1630 local. KITTYHAWK 4: BAe 146 ZE702 32 Sqn 1555 USB wkg Architect. Departed EDDG 1535/40 ETA ETUR 1605/10 Std Relay 'R'. SELCAL watch EMBQ. RRR5547 C-130 XV202 LTW 1609 USB wkg Architect Departed EGAA 1525/35 ETA EDDG 1725/35 Std Relay 'K'. Req wx for EDDG/EDDV. SELCAL watch AJDE. ALF6132 2049 USB wkg Architect pp Ascot Ops, ETA EBBR 2210/2220 req confirm that EBBR have accepted us. Ascot Ops could not confirm due to computer failure, req a/c call back in 20 mins. (JS)

4745 DRAGRACE 2235 USB called & raised NIGHTWATCH 01, but did not hear NW01. TRUTHFUL 0149 USB called NIGHTWATCH 01. At 0150z, WAR 46 worked NIGHTWATCH 01. At 0354z, MAGNAVOX called NIGHTWATCH 01. At 0454z, NIGHTWATCH 01 (heavy "whine" on his audio, as has been recently common) w/26-charcter EAM, apparently not hearing MAGNAVOX simulcasting the thing on 3143 & 6757. (JH)

4751 9-LIMA 0449 USB & 0-NOVEMBER wkg each other for radio checks. (JJ)

4941.5 FDI8, FAF (Aix ?), F: 0105 VW v-mkr (ANDL)

4959.5 BALDWIN CONTROL (NORAD HIROCC (Hawaiin Regional Operations Control Center) USB wkg HOKU 61 w/radio ck's after contact on 364.2 AICC. Also HOKU 51 on the net adv BALDWIN CTL he was reading him 2 by. Anyone know what type of a/c HOKU is? (EA)

5010 Russian Air Defense,RUS 2111 USB QRV msg ''BT990110??8?????'' (note: time=UTC+4) (AB)
5064 9MB: Malaysian Navy Georgetown 1805 CW-marker 'vvv 13/16/19' (PB)
5080 PLEAD CONTROL 1730 USB Wkg W3S, W4S, V4Q and others. Ref to R/C on 3237. Ops Normals and some posn rpts all between 33 and 36N, 121 and 122W. Some ANDVT. Looks like the Pacific Missile Range is active this AM (PDT). W1M & BLOODHOUND 36 1630 USB clg PLEAD CONTROL (no joy). W1M informs BLOODHOUND 36 that he had PLEAD CONTROL on "Tango Alpha 2 0 0 Zulu 2" (WT)
5086 CAOC Kalkar LIMELIGHT 0945 USB wkg CRC BANBOX and Navy-units (GD3)
5086.5 US-forces 0930 USB (airborne but no clue if it's AF or NAVY) in the Adriatic. Callsigns: EC, IE and IG. They talked about Italian coast & Yugoslavian Islands. (GD3)
5087.5 CAOC Kalkar LIMELIGHT UTC? USB clg CRC Nieuw-Milligen BANDBOX (GD3)
5099.5 Various: var. times USB German army. 'Wasserhuhn' and several other tactical callsigns were heard. (JJ)
5198.5 CZDO: CFAV Quest (AGOR-172) 2005 USB Canadian Navy hydrographic/ oceanographic research ship, wkg Halifax Military re hydrolant info. (RB)
5205 Florida National Guard "Mike" disaster HF Net UTC? USB? apparently, the net has a total of 36 channels, 5205 being one of them. The Guard has been called out to help with the flooding in the panhandle of Florida, in the aftermath of the tropical storm. Would appreciate & frequency and channel information anyone has to offer. (ANN via Bob -LOGS)
5218 TRACKER-01 1000 USB w/BOOKSHOP-57 and BOOKSHOP-01. BOOKSHOP-01 called itself also 'OPS'. Freq change to 81B (eight-one bravo) = 5346 kHz where the conversation continued. (JJ)
5290 TBO, TNy Izmir, TUR: 1924 CW v-mkr VVV TBDJ VVV DE TBO (ANDL)
5310 JULLIET-CONTROL (??) 0935 USB wkg AE (??) sounded Italian. (GD3)
5313 INDIA 4408: 1645 USB Italian Air Force aircraft calling "Aktio" [LGPZ] (CK)
5437 Andrews VIP 0700 USB working EXECUTIVE-1-FOXTROT with signal checks for possible new primary on "F-489" from F-117 (6993). Comms didn't workout on this freq so they went back to 6993. (JJ)
5680 Kinloss Rescue,G 1222 USB w/Rescue 11 giving coordinates to look for a missing vessel. Plymouth Rescue,G 1639 USB w/Rescue 122. Radio check (AB) Rescue 11 0958 USB 15 POB ETA scene of search 10:25 1 ASR carried. EGQL as diversion airfield. 10:50 posn 5608N1008W. Rescue 177 0959 USB 5 POB 4 hours endurance overhead Arran routing to posn 55480N08330W ETA 11:00 Inform B1Q (Ship) our ETA on scene 1100. Rescue 177 1150 (Seaking, Helo) Lifted off Island of Coll, RTB Prestwick ETA 13:25, working Coll CG. 156.000/11:36. Navy 177 1105 USB Kinloss Rescue, airborne RN Prestwick 5POB endurance 3 hrs. exercising in the Galloway area. SMG 37 1544 USB Plymouth Rescue, RTB St. Mawgan closing down. (Wessex, SAR Flight St. Mawgan). Swift 140 1012 USB Wessex helo 5 POB outbound Aldergrove, to operate in the Coleraine and Portrush areas. (ANUK) RESCUE122,127 1319 USB PLYMOUTH RESCUE (JD3)
5685 CWL50/51 Domini 3FTS 1311. "MKH5" USB Requesting latest actuals for Cranwell, Coningsby and Leeming. (JD3)
5687 GAF444 0901 USB Airborne Landsberg 08:56Z, estimate for Koln 1005. GAF568 0902 USB Departure ETNJ 08:55Z, estimating EDDK 09:40Z. GAF308 0947 USB Departed Wittering 09:42Z, estimating EDDK 11:10Z. NATO 10 0951 USB SELCAL check "JKLM". GAF034 0957 USB Departed Koln 08:35Z, estimate Goode-Bay 14:11Z (JD3)
5696 CAMSLANT Chesapeake 1102 USB wkg B7U requesting radio checks on 3E11 & 3E12. Checked both freqs but had heavy QRM from nearby RTTY txsmns. CG Rescue 1702 (HC-130) 1402 USB wkg COMMSTA Honolulu w/Ops normal & posn report 1733N 15754W (just of the southern tip of the Big Island). Local boys. :) (EA) USCG Group San Diego 0322 USB Clg CG a/c & standing watch. Evidently their VHF equipment still on the fritz. (JDS) C4C 0129 USB wkg CAMSLANT w/FLT ops normal. (LCB) CAMSLANT Chesapeake 1817 USB req flight ops from CG-6002,CG CHARLIE 12, CG-6014 & CG-12CHARLIE. BRAVO 4 KILO & 3 SIERRA ECHO 1838 USB passing guard to COMSTA New Orleans. 62 ALPHA 1833 USB reporting ops normal to CAMSLANT. CG 6033 1835 USB conducting radio check w/ CAMSLANT. 62 ALPHA 1837 USB confirms contact w/PANTHER requests

CAMSLANT to secure his guard. CAMSLANT 1830 USB securing guard for LIMA 5 LIMA. CAMSLANT CHESAPEAKE 1823 USB req flight ops from CG CHARLIE 13 (MF2) Coast Guard 1501 2308 USB wkg PP to Atlantic Area Ops Command (via CAMSLANT Chpk), they report are bingo fuel, going into Bermuda for fuel. Have not sighted any vessels in distress yet, are wkg legs of search. Intentions are not to search back to DMB (Marker Buoy?) but to let it drift. If site any flares will change search....Command is having trouble resolving fix.....CG1501 will return DMB after fuel. Lots of other activity here including posn reports to PANTHER. (PS3) (DMB is Data Marker Buoy) NPCR: USCGC Dallas (WHEC-716) 0333 USB wkg NMN w/rdo ck, req RATT frequency. 33C: 0409 USB wkg NMN re is following a vsl w/FLIR (Forward Looking Infrared), req NMN contact harbor patrol, passes loc as 2435N/07715W, app was poss drug smuggler. NMD25: USCG Group Detroit, MI 1658 USB wkg NMN w/radio ck (rare appearance by a Great Lakes Group on HF). NOI: USCG AirSta Detroit, "Detroit Air", Selfridge ANGB, Mi 1704 USB clg CG 6018 no joy. Rescue 2131 USCG HU-25A Falcon Jet 2215 USB wkg NMN re pp Miami Op's, re is overhead a 70 foot vsl w/3 POB (Persons on Board) taking on water. Rescue 1715 USCG HC-130H 2237 USB wkg NMN re req radio guard, airborne w/7 POB enrt to a posn E. of Bermuda on a SAR case. (RB)

5706.5 German ARMY UTC? USB Several stations working each other; callsigns includes: BETREUER, FAVORIT. (GD3)

5713.5 Unid unit UTC? USB wkg IDR (Italian NAVY) (GD3)

5715 7HS UTC? USB wkg DHJ78 w/posn reports (Possible German NAVY) . Don't have a user for DHJ78. (GD3)

5739 LAJES 0548 USB wkg BLACK DAY w/pp was to a 587 number. LAJES came back up and said that this number produced the U.S. Naval Observatory time service. BLACK DAY stated that's what he wanted, and they went into the "U.S Naval Observatory Master Clock" Eastern daylight time hacks.

5800 ARMAMENT 0559 USB worked NIGHTWATCH 01 and exits the net. He entered the net at 0123z. He had a slight problem with the challenge process, & thanked NIGHTWATCH 01 for the night's work. AGREEABLE (or sounds like)1532 USB worked NIGHTWATCH 01. At 2231z, NIGHTWATCH 01 w/26-character EAM. At 2332z DRAGRACE worked NIGHTWATCH 01, & passed to NW01 something that sounded like TANGO GOLF UNIFORM. At 2238z, NIGHTWATCH 01 w/a 26-character EAM. NW 01 0458 USB w/a 26-character EAM, // on 4745 & 5800, then asked PUMPSHED to acknowledge his traffic. TRUTHFUL 0153 and NIGHTWATCH 01 called each other, without response. NW 01 2246 USB called FIREDOME. (JH) GULF 210 1831 USB passing sitrep to STONEWALL. GULF 210 1853 USB passing sitrep to STONEWALL (MF2)

5875 NIGHTWATCH 01 2145 USB worked HEADBOARD on self-id'd ZULU 155. No co-channel swbc activity at this time. (JH)

6379 4XZ: IN Haifa, ISR 0444 CW vvv mkr. (BvR)

6382 TBA, TNy Ankara, TUR: 1547 CW v-mkr TBDJ (ANDL)
TBA2: TN Ankara 2217 CW de tba 6. (BvR)

6385 SXA35, Greek Navy, Pireaus, GRC: 1545 CW mkr: VVV DE SXA/G2G/3G SXA/G/2G/3G A/G K13A/G (ANDL)

6388 EBA, Spanish Navy Madrid, E: 1615 CW mkr: CQ DE EBA NAVARA THREE NAVAREA TRE (ANDL)

6467 VTG5, Indian Navy Bombay, IND: 1620 CW mkr: VVV VTG 4/5/6/7 (ANDL)

6470 SXA24, Greek Navy Pireaus, GRC: 1540 CW mkr: VVV DE SXA24 K (ANDL)
SXA24: GN Piraeus 0436 CW vvv mkr. (BvR)

6481 TBH3, Turkish Navy Izmir, TUR: 1625 CW mkr: T43B VVV DE TBH3 (ANDL)

6502 TBB6, Turkish Navy Ankara, TUR: 1625 CW mkr: VVV TBDJ DE TBB6 QAPVVV VVV (ANDL)

6683 SAM "681" is now "682" (somebody goofed?) 0505 USB working Andrews to advise they will be EXECUTIVE-1-FOXTROT status soon. Also worked Andrews for pp to the San Francisco area. SAM 203, 0000 USB DV 2 + 8, working Andrews VIP on primary. SAM 204 0300 USB working Andrews VIP for pps to ROYAL CROWN and SAM COMMAND re: crypto problems. (JJ) Andrews 1847 USB performing radio check with SAM 203,also tried F287 & F646 (MF2) EXECUTIVE ONE FOXTROT 0134 wkg Andrews w/pp to Signature Aviation in Minneapolis, E1F eta 2115 local. (MJ) Navy 676 VP-3A Bureau # 149676 2010 USB of CINCLANT wkg Andrews VIP w/pp SAM COMMAND, passes ETA w/DV2 for 3 day stay. (RB)

6691 SOFABED 2229 USB wkg ANTIQUITY on "CA". (HF)
6712 Neth. Air Force 43 1855 USB w/Croughton. PP to ? Metro. Wx for EHEH (Eindhoven) (AB) ANDREWS 0630 USB with a 26/20 character EAM set, at ANDREWS post 0600z h+30 "repeat" EAM transmission time. (JH)
6715 NIGHTWATCH 01 2059 USB worked JUNEDAY. LONGHAND 0550 USB worked NW 01, & entered the net. No other players in the net. Lots of deep qsb on NW01's signal. (JH)
6717 ANDREWS 1812 USB worked SAM 203.
6728 SAM 26000 0510 USB wkg Andrews VIP for Sarajevo wx conditions at 08XXz (lost the last two digits in the QRN). Also checked 11056 & 13247. (JJ)
6735 FDE14, FAF (but where?), F: 1615 CW v-mkr (ANDL)
6738 Architect,G 1200 USB Celebrity broadcast (AB)
6739 QUIRE 63 0935 USB clg "Detail" w/traffic. (AW) REACH 2645: 0100 USB wkg Incirlik. Tail no. 60160, mission PMRF42645257, OKAF blocks at 0345z, next OOMS. said because of cargo cld not make OOMS w/o gas. So either route OKAF, OKBK (gas), OOMS or OKBK (gas), OKAF (d/l cargo), OOMS. RCH G3 ad and RCH 0192 10-15 mins behind. pp Hilda East. (CH) SUSPICION 0714 USB clg MACDILL "with request", the called MAINSAIL & raised ALBROOK, pp placed to DSN 339 number for BOOMTOWN, w/discussions of use of CHARLIE ALPHA (6691 heard active w/data comms earlier) & "continuity of circuit"; & BOOMTOWN's sending data every 30 minutes. They agreed if no joy on CA, then to use CK or CL (neither known here.) At 0743z SUSPICION pops up on freq; calls BOOMTOWN; & id's freq as CHARLIE LIMA (probable punchup error). QUOTATION 0054 USB calling MAINSAIL. At 0137z, OFFUTT, as lead GHFS station, w/a 20-character EAM "FOR TACAMO PAC SECONDARY CREW", very unusual. At 0544z, OFFUTT as lead GHFS station, w/20-character EAM "FOR TACAMO PAC SECONDARY" (now less the "crew" part.) Also unusual to have the abncp-type strings over a relatively short period of time. At 0633z, OFFUTT as lead GHFS station, w/131-character EAM (PK56GA...). At 1237z, OFFUTT as lead GHFS station with 20-character EAM "FOR TACAMO PAC PRIMARY", again unusual to have so many of the abncp-type things over such a "short" timespan. QUIDD 22 0154 USB worked OFFUTT w/pp to TRAVIS weather. HICKAM 0415 USB called PACAF 01. OFFUTT, 1238 USB as lead GHFS station, with a 20-character EAM that sounded as "FOR PRINT WHEEL", except that the other GHFS stations in the rotation had it as "FOR BIG WHELL." However, at 1243z, OFFUTT was back up with a second 20-character string, again sounding like "FOR PRINT WHEEL", and this time the other GHFS stations seemed to send it as "FOR PRINT WHEEL." Strange. D3N 0445 USB called HICKAM GLOBAL, with no response. At 1238z, OFFUTT as lead GHFS station, w/20-character EAM "FOR TACAMO PAC PRIMARY". Of interest, HICKAM and others who echoed this thing sent the string as FOR TACAMO PRIMARY. This dropping of the "Command" has been heard before at this time period. NIGHTWATCH 01 1306 USB (strong; heavy "whine" on his signal) with an EAM string, trailing the GHFS broadcast of same, & simulcasting on 6739 & 8992 ("MACDILL" freqs; & strong on 8992.0 also, with the "whine"). At 1310z, OFFUTT was up w/a 20-character EAM transmission. At the immediate conclusion of the broadcast, the freq lit up for a split second with the distinctive "whine" heard on NIGHTWATCH 01 just minutes before. Must've keyed up for a second. OFFUTT 1238 USB as lead GHFS station, w/20-character EAM "FOR TACAMO CENT SECONDARY.' BILLYCLUB 1412 USB called MAINSAIL. AUTOGRAPH 0620 USB called MAINSAIL. OFFUTT 0433 USB as lead GHFS station, with a 20/20/26 character EAM set over an eight minute period. ANDREWS, 1238 USB as lead GHFS station, w/20-character EAM "FOR ICE AGE" (JNULAE...). At 1247z, ANDREWS with 20-character EAM "FOR ICE AGE" (JNQPZQ...). 1230z-1300z was a once, and maybe future, common transmission window for various "FOR.." EAM strings. *Very* unusual to have a "second" active static set for a 20-character EAM string; even more so to have the static series apply to a non-20/26 character EAM set as well. SHUCK 81 0525 USB worked LAJES w/pp to LAJES weather. Missed the beginning of the comm, but after SHUCK 81 said that he "...had a beautiful sunrise", the LAJES opr told him to "have a beautiful day in France." DRAWKNIFE 1520 USB called NIGHTWATCH 01 "on six seven three nine." BLACK DAY 0531 USB called MAINSAIL and raised LAJES (after hearing LAJES with

a brief test count. BLACK DAY requested a discrete frequency to conduct a pp. LAJES first moved them to 11271.0 (CANFORCE/USAF OR freq) At 0548z, they popped back up on 6739.0 and LAJES told BLACK DAY to meet him on "five megs", and they were gone. A punch of the R5000 "down" button dropped the receiver smack on top of both of them on 5739. The pp was to a 587 number. LAJES came back up and said that this number produced the U.S. Naval Observatory time service. BLACK DAY stated that's what he wanted, and they went into the "U.S Naval Observatory Master Clock" Eastern daylight time hacks. LAJES has to redial the number every minute or so as the service automatically disconnects after a set period of time. BLACK DAY was/is willing to put up with it, and they are still at it at 0605z on 5739. (JH) SUSPICION: 0504 USB wkg MacDill GHFS on with pp to BOOMTOWN. SUSPICION advises unable to establish comms, asks BOOMTOWN if they have Tango Bravo Tango Sierra Alpha frequencies CG, CF, CL or CK. BOOMTOWN to check and advise. SUSPICION: 0512 USB wkg. MacDill w/ pp to OPCON. SUSPICION asks OPCON to cntct BOOMTOWN and ask if BOOMTOWN has 985 and 940 off the current ZRR list . SUSPICION then asks OPCON to contact NOTED and adv NOTED to use Charlie Alpha. SUSPICION: 0523 USB wkg MacDill on GHFS with pp to BOOMTOWN (DSN 339-XXXX). SUSPICION asks BOOMTOWN if they cnfm freqs BOOMTOWN advises have CG, CF, CL and CA. HADDOCK 72: USB wkg. Offutt GHFS with pp to unid station req billeting for the night. HADDOCK 72 self id'd as from the 39th Airlift Squadron at Dyess AFB, Texas. Here's one for you callsign collectors! (JW) MacDill GHFS Fl, US 0456 USB wkg CLEANCUT for NIGHTWATCH freqs, adv Z115 primary, Z170 secondary. (RB)

6739.5 FDG, FAF Bordeaux, F: 1605 CW v-mkr (ANDL)

6739.8 Unid station 0542 USB probably GHFS ground station) with short test count, maybe zero'd on the apparent center freq of the then active telco "whale" sound artifact. (JH)

6751 UNID 2308 USB clg "HUSKER 25 on HF." No joy. (JJ)

6757 NIGHTCAP 0513 USB called NIGHTWATCH 01, raising same at 0516z. TRUTHFUL 0148 USB worked NW 01. At 0152z, TRUTHFUL called NW 01, but NW 01 responded as if he were OVERFLOW. At 0201z TRUTHFUL worked OVERFLOW, & enters the net through OVERFLOW. At 0302z, OVERFLOW worked PRESTLEY (or sounds like.) AT 0454z, MAGNAVOX w/26-character EAM, simulcasting on 3143 & 6757, & apparently not hearing NW 01 w/the same string at same time on 4745. At 0538z, TRUTHFUL w/26-character EAM, not heard simulcast on any other freq. HIGHTIDE 0057 worked NW 01. NW 01 1609 announced that he was going monitor only at 1635z "due to maintenance". At 1800z, NW 01 w/a 26-character EAM (4T2QY5...). NW 01 0250 USB called MUDBUG (but heard by others as MUDDUCK.) Also, SHAMROCK (usually pronounced SHAMRACK) worked NW 01 & entered the net. At 0645z, SHAMROCK called & raised NW 01, but could not understand NW01. At NW01's request to move to ZULU 130, SHAMROCK heard it as ZULU 175. At 0704z, NW 01 worked SHAMROCK. At 0709z, SHAMROCK w/ a 26-character EAM. (JH) ALLSTATE 0431 USB clg NIGHTWATCH 01 on "Z-165", no joy. (RB)

6758 MKL, RAF Pitreavie, G: 1605 CW wx (ANDL)

6761 QUID 37 2027 USB Wkg SNOOP 55, still on the ground Mildenhall will not make the 21:00 C/P. SNOOP 55 2027 USB In holding orbit West of Benbecular, waiting for A/R w/ Quid 37. BLUE 81 1320 USB Clg Blue 82 no reply. Blue 21 1004 USB Wkg Blue 22, a/c is repaired, airborne in a few mins. ETA 10W 12:20 for R/V. (ANUK) QUID 84 1530 USB clg REACH V5. no joy. (Heard on 312.450 (SAC ops EGUN) QUID 84 wkg Banter control. Req update on next receiver; REACH V7. Trying to raise them on 6761.) REACH V5: +1617 USB w/ QUID 84 a-a. were slowing down but cld not do anything w/strong winds. Will be abt 20 mins early. QUID said they would be early also. Both arranged IP at 1727z, CP at 1735z at 3851N 9.56E. chg to AAR prim. (CH) GASER 12 0515 USB worked RAID 48, possible posn was passed that would put them over the eastern Atlantic. These comms were followed immediately by B_____ 41 FLIGHT wkg SIERRA 49 (B____ sounded sort of like "boone" or "boom" more than maybe BONE or DOOM). ANDREWS 1739 USB worked SAM 203. At 1753z+/-, SAM 203 worked AIR FORCE ONE. At 1804z, ANDVT comms, followed at 1806z w/ ANDREWS clg SAM 203. (JH) HAWK 87 0401 USB enrt to Dyess AFB w RAYMOND 37 for 0600z Dyess wx. HAWK 87 reported his current posn as "near Dalhart Texas." RAYMOND 37 said he was usually up on

9025 during the day. EXECUTIVE 1 FOXTROT, IDed as a C-9, 0100 USB enrt to Los Angeles (LAX) wkg Andrews VIP for a check on Nationwide UHF freqs. ETA LAX is 0200z Operator said he'd be up on 131.6 VHF when they get closer to LAX. (JJ) NIGHTWATCH 01: 1440 USB wkg Andrews, advising airborne at 1409. Andrews: 1442 USB clg SPAR 19 w/sig checks and test count.Unable to determine if SPAR 19 (CINC CENTCOM aircraft) responded due to heavy local interference.(JW) AIR FORCE 1 1850 USB clg Andrews "in the clear", later ANDVT comms hrd here. (RB)

6779 DRAH: FGS Brandenburg (F-215) 0036 USB wkg DHJ59 w/RTTY coordination tfc. DHJ59: Wilhelmshaven Naval, 2150 USB Germany wkg unid German Navy vsl "DRHB" (not the decomm/stricken Hermes) w/RTTY coordination tfc. (RB)

6812 TEASER: USN Aegis Test/Training Site Wallops Island 2330 USB w/ possible tracking net involving a/c 284 & 283. (CM)

6825 FAV22, FA Mont-Valerien, F: 1440 CW v-mkr: VVV DE FAV22 QLH 3881/6825 KHZ, 1444z: start of CW lessons by machine, start w/header: LECON 12-1/1 VITESSE 600 CODE, LECON = Lesson in FF, 5LGs, also header: LECON 1T-1/2 VITESSE 420 CLAIR followed by open FF text, next: LECON 11-1/3 VITESSE 420 CODE and 5 ltr grps. hrd daily over weeks, // 3881 kHz (ANDL)

6830 EXECUTIVE 1 FOXTROT USB wkg Andrews VIP w/pp traffic. Reported: Departed Dallas 0210z. ETA home station 0445z. Andrews VIP 0142 USB wkg SAM 28000 and SAM 403 in clear-voice and then into ANDVT for signal chks on this AF-1 primary frequency. 9320 is the secondary. 8032 has also been checked for possible later use. Andrews VIP 0142 USB wkg SAM 28000 and SAM 403 in clear-voice and then into ANDVT for signal chks on this AF-1 primary frequency. (JJ) Andrews 1833 USB wkg pp for SAM 201 to DNS#968-2831/-2854 (MacDill meteo) (201 was enrt to MTPP-Port-au-Prince, HAITI). Andrews 1848 USB wkg pp for SAM 201, then QSY to F211 (MF2)

6837.5 CZU - UNID: 1343 USB sx EE w/HBJ, military ? mid EU (Dutch?) accent, ment: (Boring?) Operation/Teams, received pictures fm ABF, given callsign/area assignments fr 3 units: ABF area Roxette, HBJ area (Dillen?), KZB area (Djosee?), item-styl-msg w/posns/etc., 1346z w/LBH (FF accent) abt medical supply, boarding passengers, ships documents, s/off w/: LBJ out, 1351z w/TRE ment: seems to be a Greek vessel, 1454z w/LBH (FF acc.): terminate your exercise. CZU act as net-control, 1525z AGF w/TRE, 1536z KZB w/CZU w/ship info. (ANDL)

6844.5 FDC, FAF Metz, F: 1615 CW v-mkr (ANDL)

6875 FDI8, FAF (Aix ??), F: 0940 CW v-mkr (ANDL)

6936 RMP, Russian Navy Kaliningrad, URS: 1645 CW "REO REO de RMP RMP QTC 524 6622 2T15 524 = Klajpeda Radio prip nomer 79 podhodk portu ...", wx rpts ?, hrdc often at this time, who/what is REO ? (ANDL)

6966 FDI22, FAF (qth: Aix?), F: 1555 CW v-mkr (ANDL)

6966.2 FDI22: French Air Force, Aix 2001 CW, "vvv vvv vvv de fdi22 ar" marker (MC)

6970 1-JULIET 0514 USB wkg 6-GOLF for KL-43 data transmission. 6-BRAVO is also wkg the net in clear-voice, also at 0541.(JJ)

6993 SAM 300 0100 USB wkg Andrews VIP. ETA home station 0300z. (JJ)

7325 Andrews VIP 0355 USB checking PACCOM 01 for a new frequency from previous 8026.0 (No joy.) (JJ)

7535 NORFOLK SESEF 1834 USB conducting xmitter tests w/USS CLARK. NORFOLK SESEF 1820 USB conducting HF radio tests w/the USS Oakhill. NORFOLK SESEF 2028 USB conducting HF radio tests w/ the USS Oakhill (transmitter #9). NORFOLK SESEF 1757 USB wkg radio problem w/the Manongahella(?sp). NORFOLK SESEF 1826 USB conducting HF radio tests w/GUNSLINGER (MF2) (USS Clark is FFG-11, NJJC; USS Oak Hill LSD-51 is recently commissioned, c/s unk, and served as command ship for awhile for the TWA Flight 800 Op's; USS Monongahela AO-178, NHYC -LOGS) Norfolk SESEF 1845 USB wkg radio tests w/Navy New London (Groton CT??) (MK) (probably NUSC New London, Navy Underwater Sound Center -LOGS) NOTC: USS Caron (DD-970) 1410 USB w/HF testing. NOTH: USS Halyburton (FFG-40) 1451 USB w/texts of xmitter #7, req for TACAN testing. NHTE: USS Elrod (FFG-55) 1505 USB w/test of ships URT-23D HF transmitters, ship was 34 miles NW of Cape Henry, Va. GUNSLINGER Unid 1520 USB wkg SESEF w/HF testing, this is the 3rd time in 2 months this callword has been logged, app a static ship callword. NACK: USS

Concord (AFS-5) 1630 USB clg SESEF Norfolk, no joy. NRLC: USS Conolly (DD-979) 1747 USB w/HF testing of all HF xmitters. (RB)
7536.5 HOPPER 83 and HOPPER 10 1930 USB wkg AC4 -- Hopper 10 stated he had 13 souls on board and had eta of 1900 (must be local time) (MK) HOPPER 69 U.S. Navy (LCAC-69) 1625 USB wkg AC4, Assault Craft Unit 4, Little Creek, Va, re HOPPER 46 (LCAC-46) is investigating a casualty. This was probable exercise tfc as logged over ten LCAC's in short period of time reporting status's to AC4. (RB)
7690 9-TANGO 1835 USB passing "Marine Sum Log Report" to 1-ECHO. 9-T had originally wanted to send the list via KL-43, but "the KL-43 will be down for the remainder of the mission." The log passed went something like this: Line 02: Marine Officers 10, Line 03: Marine Enlisted 89, Line 04: Navy Officers 03, Line 05: Navy Enlisted 05, Line 06: MREs (cases) 47, Line 07: Water (gallons) 300, Line 08: Fuel (gallons) 650, Misc: Added personnel Officer (missed the rank) Wilson Misc: INDIA & KILO batteries are in the rear. 9-TANGO said he'd be up on this freq all day and something about mail delivery at Camp Pendleton. (JJ)
7693 NIGHTWATCH 01 0015 USB wkg Andrews AFB for signal chks. on "Primary" F-264 in clear-voice and ANDVT comms. Secondary freq. F-646 (13440). (JJ)
7831 HIGHTIDE 0051 USB worked NIGHTWATCH 01 for data comms. NW 01 2243 USB called BELTTIGHT, but raised FIREDOME. (JH)
7859 FAF ? LOC 0743 CW Marker "vvv de FDI22 ar" (DW)
FDI22: French Air Force ARQ Aix CW w/ ID marker.(PT)
7960 OSCAR-1-ECHO 0041 USB wkg NOVEMBER-5-XRAY and 9-VICTOR. 9-V reported that they would be at Wilson at 1600 local on the 19th and wanted to setup a "CRMO (?) point for the ammo." 9-V then asked to talk to the regimental surgeon. (JJ)
7962.5 FLIGHT (or RIGHT) ALPHA 0330 USB wkg FLIGHT BRAVO for data comms. Sounds very much like the USN "DURANT" type comms which use to be semi-common, however this group is not using duplex comms as was standard for "DURANT." (JJ)
8026 SAM 31681 1834 USB signal chks though Andrews VIP. SAM 203, 2350 USB DV 0, w/ pp through Andrews VIP to SAM Command. ETA home station 0305z. (JJ)
8032 SAM 27000 2300 USB wkg Andrews VIP pp to SAM COMMAND for write-ups. ETA Andrews AFB 0015z 27000 just recently reached the weak-readable level here. They've been weak-unreadable for the last hr. Andrews is good readable at the current loc. SAM 27000 2300 USB wkg Andrews VIP pp to SAM COMMAND for write-ups. ETA Andrews AFB 0015z. (JJ)
8040 VENUS 77 on approach 10 minutes from McChord AFB wkg Andrews VIP for preflight freqs. for 130025z: F-117, F-752, and F-365. 1926z Previously they worked 11220.0, 11214.0 (USB & LSB) & 11460. CASEY 01, KC135, 1755 USB DV 2 + 10, destination Travis AFB, ETA 2055z, wkg Andrews VIP for pp to Travis Base Ops. Passed some "AFM & AFRTS" (?) frequencies: 6086.0, 9595.0, 15225.0, 15280.0, 15315.0, 15330.0, 15410.0, 15430.0, 17765.0, 17820.0, 21690.0 (JJ)
8122 VLRD: HMAS Townsville (Royal Australian Navy patrol vsl) 1414 USB tfc for Darwin Control. (AB2) Darwin control 0645 USB clg HMAS "Warnambool". (AW) VMT Townsville: 0657:USB: Clg Darwin Control. (IB) Misc Aussie naval traffic.: 0800-0900 USB Darwin Control was wkg "58 Golf". (RA) HMAS Protector 0919 USB wkg Canberra Control w/an attempt to pass traffic. Talk of going to 3MHz, 4MHz, and Alpha 5. Kept returning to 8 megs. (PB) VLRH: HMAS Bendigo (PTF-211) 0609 USB wkg Canberra Control w/immediate msg tfc. (RB)
8240 NICB: USCGC Forward: 2125: USB: Wkg NMN, QSY> 12242.0 (IB)
NRPJ: USCGC Laurel (WLB-291) 1700 USB wkg CommSta New Orleans, NMG, w/pp to CG command. (RB)
8335 UNID: 0307 USB ANDVT comms. Again, one station "booming" the other weak and barely readable. (EA)
8437 4XZ: Haifa, Israel 2355 CW marker then coded traffic. (BDS)
8490 AQP5: Pakistan Navy Karachi 1914 CW "vvv de AQP2/4/5/6" //6390 (PB)
8505 TBO3: Turkish Navy Izmir 0756 CW "vvv de TBO3" (PB)
8551 CTP: NATO Lisbon Portugal CW w/ ID marker..(PT)
8555 TBB7: Turkish Navy Ankara 0830 CW "vvv TBDJ de TBB5/7" (PB)
8646 VTP6: Vishakhapatnam Naval, India 2015 CW "VVV VTP4/5/6". (JD2)
8764 NMN: CAMSLANT Chesapeake 2011 USB Wkg `T6I` - weak on 8240 kHz. (IB)

8968 KANTO-36 0349 USB wkg Anderson Global w/pp to Kadena CP & Meteo. SAM 204 1047 USB trying to reach Andrews. Advises UI sta they are switching to 731 primary for radio check. After trying to go back & forth w/Andrews (they kept missing each other) finally had good comms on 6.683 USB advising 204 will remain on this freq as primary. UNID: Andrews?? 1615 USB w/ 66 character EAM. Thought that was odd as not sure if I've ever heard Andrews initiate or repeat EAM. Also don't think I've ever seen 66 as one of the "usual's" (i.e. 20 or 26). Station was loud and clear here so probably using Hickam ground station as relay. (EA) REALM 10 0015 USB wkg Lajes GHFS w/pp, no answer. (HF) NIGHTWATCH 01 0356 USB worked HICKAM w/a quick pp to RAYMOND 21 (these "RAYMOND 21" connectivity check pp's are suddenly noticeable over the past week.) (JH) REACH 8086: C-141 1053 USB wkg Lajes for pp Ramstein CP, ETA Ramstein 1330, Maint Status A1. pp Ramstein Metro landing wx 1300. PiRep, C141 5202N 01803W FL370 250/85 -43 Neg Turb/Ice. (JS) REACH 0011 2136 USB clg Lajes no joy. REACH 2641: 2136 USB wkg Lajes pp Charleston. REACH 0011: 2139 USB wkg Lajes pp DSN 923-XXXX no answer. ROME 12: 2353 USB wkg Lajes pp unk ground party DSN928-XXXX advised to try direct on 319.4. COPPER 1: 1143 USB clg any radio USB wkg Andrews no joy. TRION: 1349 USB clg MAINSAIL w/ Andrews answer for rdo ck loud USB wkg clear. (KW2) PASTRAMI 2245 USB clg OFFUTT req prim & sec wkg freqs for NW 01, unable to copy the reply. (LCB) CARDFILE 712 1849 USB clg MAINSAIL for a radio check. Offutt 2114 USB wkrg PP for BANDSAW HOTEL to DNS#884-7313 (RAYMOND 24). Offutt 2130 USB wkrg PP for BANDSAW HOTEL to DNS#884-4104 (PHOENIX ONE) BANDSAW HOTEL was terminating orbit & returning to Tinker,AFB if radar problem could not be fixed in 15 minutes. (MF2) Offutt: 1827 USB wkg REACH 0022 w/pp to Travis CP w/ETA and PIREP (MW) NAVY RY090: Navy C-9B Skytrain 0314 USB of Fleet Logistic Support Wing VR-59, "Lonestar Express" at NAS Dallas, Tx, wkg Thule GHFS w/pp Hickam CP, passes ETA of 0607z. TEX 85: KC-135 of 917th ARS? 0319 USB wkg Thule GHFS w/pp RAYMOND 37, then req 28th Bomber Squadron scheduling re correct time for IR-177, was advised they would be contacted on 6761. FRISCO 45: 0326 USB wkg Hickam GHFS w/pp Travis AFB CP re AR (aerial refueling) times, ETA Travis. NAVY JS266: Navy C-9B Skytrain 1548 USB of Fleet Logistic Support Wing VR-46, "Peach Airlines", at NAS Atlanta, Ga, clg Hickam GHFS for sev mins, no joy. HUSKR 55: KC-135R 155 ARW/173ARS 1620 USB Lincoln Muni Apt, Ne, wkg Lajes GHFS w/pp HUSKER CONTROL at 946-DSN, adv are over Toronto, CAN and were adv by Toronto ATC to call, CTL had no tfc for them. LINE 59: unid 1624 USB wkg Andy w/pp Dover base op's. (RB)

8971 720 1620 USB wkg N5G passing "line" data. (HF) SCREWTOP-02 2213 USB wkg BLUE STAR req wkg freqs for SALTY DOG. Reply'd back w/ "I was briefed SALTY DOG Freq - 2.1" Also Y5A wkg A2Y w/ Op's normal. SALTY DOG has traditionally been a U.S. Customs Callsign copied very recently on the COTHEN network. I suspect this is JTF Anti Drug OPs. SCREWTOP-01 2232 wkg BLUE STAR req pick up "papa uniform" & "SCREWTOP is wkg to the west, request maintain papa uniform eight plus two six" Then ST-01 clg M7E. At 2301 BLUE STAR wkg "751" ref unable to use satcom, homeplate advises 752 to contact 750 to relay operations. Then LASER-754 wkg unid w/troubles using ANDVT comms. 754 then worked BLUE STAR in the green, and then "switch datalink to 4 megs" At 2321 F5P clg S4JG. GOLF 2317 USB clg VICTOR ZULU ref "Call APLHA SIERRA 403". (LCB) (SCREWTOP's are E-2C's from VAW-123 "Screwtops" out of NAS Norfolk, Va -LOGS) UNIFORM 9 HOTEL 1845 USB clg CARDFILE for a radio check. 3 NOVEMBER FOXTROT 1830 USB requests FIGHTING TIGERS 730 to RTB per GOLDENHAWKS request. TRIDENT 08 1834 USB passing posn report to GIANT. TRIDENT 08 1839 USB passing ALPHA report to DELTA. 3 BRAVO KILO 1917 USB passing posn report to SCREWTOP 01 (Any familiar w/the "101 Net"?). Trident 03 1922 USB passing posn report to SCREWTOP 01. CARDFILE 1819 USB clg QUEBEC 5 WHISKY,no joy. BLUESTAR 2145 USB reporting negative contact w/ UNID to FALCON 1. QUEBEC 4 TANGO 1827 USB req SCREWTOP 03 to change his callsign to SCREWTOP 02. RAFAEL 123 1831 USB clg 6 UNIFORM CHARLIE,no joy. SCREWTOP 01 1835 USB req radio ck & status from SCREWTOP 02. SCREWTOP 01 1837 USB was also looking for FALCON 1. SCREWTOP 02 1838 USB reports no joy in the green to QUEBEC 4 TANGO (Surface ship).

RAFAEL 1841 USB passing ops posn to GOLDENHAWK. (MF2) SCREWTOP 02: E-2C of VAW123 "Screwtops", NAS Norfolk, Va 0223 USB wkg GULF w/link-11 coordination comms, kicking to D30. (RB)
8972 STINGRAY 35: US Customs A/C 0220 USB clg SKYWATCH. (DW2) (off freq from 8971 probably -LOGS)
8974 Airforce 2 0647 USB requesting selcal check. (AW) KIWI-874: 0707 USB NZ Air Force a/c Wkg AF Sydney. AF Townsville 0702 USB Wkg AF Sydney w/R/Checks. (IB)
8983 CG 2112 2002 USB passing ETA to CAMSLANT CHESAPEAKE,heavy QRM from 8980. CHARLIE 5 BRAVO 2012 USB passing message to CAMSLANT. CG 6035 1912 USB reporting ops normal to CAMSLANT. ZULU NINER INDIA 1751 USB reporting to CAMSLANT Chesapeake that they are enrt to Gitmo. CAMSLANT Chesapeake 1844 USB securing guard for CG2113, CAMSLANT req standard flight ops. PAPA PAPA 64 1955 USB reporting to CAMSLANT that they are on final into HOMEPLATE. (MF2) RESCUE 1503: USCG HC-130 1717 USB wkg NMN, CAMSLANT Chesapeake w/pp Lant Area re conducting an expanded square search, is to search area C4, unid SAR tfc. (RB)
8989 TROUT 99 0345 USB wkg Andrews VIP.(JJ)
8992 TEAL 57: 2116 USB wkg MacDill pp ops matters. AGAR 32: 2117 USB wkg MacDill various pp's to base finance metro USB wkg "det 2" -- enrt to San Juan PR area. Navy COD 35: 2150 USB wkg MacDill pp com tel# enrt VA Beach VA area arrival 1 hr. (COD also stands for Carrier On-board Delivery which makes this a probable C-2A Grayhound -LOGS) 450: 2331 USB wkg MacDill pp metro regarding Howard wx. RAZOR 22: 2331 USB wkg MacDill pp Raymond 19 ops matters. TEAL 57: 2350 USB wkg MacDill pp ops matters. NAVY CW000: 2350 USB wkg MacDill pp DSN493-XXXX req to keep flt line open for their arrival. (a C-130T of VR-54 "Revellers" USNR at NAS New Orleans -LOGS) MacDill: 1307 USB EAM 26 character group "EISJH". TRION: 1308 USB EAM same as MacDill. NIGHTWATCH: 1310 USB clg MacDill no joy. (KW2) MacDill 1932 USB wkg pp for STANLEY 21 to Howard meteo. MacDill 1818 USB wkg pp for HUSK 54 to DNS#731-6262 (this was probably HUSKR 54, see 8968 log for ID -LOGS) MacDill 1919 USB wkrg PP for NAVY PAPA TANGO 34 to DNS#476-2312/2319 (MF2) (the DSN is NAS Brunswick, but no 'PT' tail codes there we know of -ID? -LOGS) NIGHTHAWK 31: USMC Executive Flight, HMX-1, Detachment 1 helo, MCB Quantico, Va or Det.1 Anacostia, DC 1928 USB wkg MacDill Global w/pp "NIGHTHAWK BASE" (MCB Quantico) & pases ETA. (RB)
8996 NATO Mil 1729 Link-11 tfc (MC)
9005.4 NOVEMBER-9 2358 USB wkg HABITAT (NAS Whidbey Island) for msg relay from ALPHA-9. N-9 wants to know the temp at 650' and the primary CZ freq i.e., is it one or two? FOXTROT-6 and others are also up on this freq.
9006 O-LIMA 2301 USB wkg O-MIKE for a radio check. O-M then advised that the "Net" will be down for 20 min. (JJ)
9011.4 MAGIC CARPET 2215 USB wkg XRAY-ONE-HOTEL w/ "ALLIGATOR" traffic. MAGIC CARPET passed 308.5 UHF freq. (JJ)
9013 SIDECAR 1729 USB wkg unknown station (missed id). SIDECAR 0033 USB worked TRENTON MILITARY for a signal check, then called a trigraph w/ no response. (JH) SIDECAR 1643 USB working MAGIC 71 (Nato E-3) talking about playground freqs (MK)
9014 COBRA 12 1557 USB called and raised RAYMOND 07, and placed a pp to WHITEMAN CP. COBRA 12 adv WHITEMAN CP that COBRA 12 would conduct an overflight of WHITEMAN at 1915z, & confirmed to WHITEMAN that COBRA 12 was an OPEN SKIES aircraft using callsign COBRA 12. (Open Skies Treaty activity.) At 1843z, MIGHTY 08 (unk aircraft type) worked RAYMOND 07 w/pp to RAYMOND 06, re battery info to be passed to CHARLIE TWO. (JH) TURBO 22 9014 USB called and raised RAYMOND 07, but did not hear RAYMOND 07's response. TURBO 22 had been on 11175 at 1632z. SENTRY 61 1653 USB worked RAYMOND 07 w/pp to ? (missed the beginning, but it was a person known to the officer on 61). TEMPO 84 1819 USB worked RAYMOND 07 w/pp to a DSN 720 number id'd as TEMPO CONTROL. (JH)
9016 ANTIQUITY 2225 USB wkg SOFABED, QSY to "Charlie Alpha". TESTFLIGHT 1445 USB wkg SANDHILL & TEAMWORK. (HF) NIGHTWATCH 01 1355 USB w/ 26-character EAM, and clg SULPHATE. At 1409z, NW 01 worked SULPHATE in voice & data, & then worked STREAMER. At 1530z, MACDILL worked

STREAMER, & went into data transmissions at 1532z. At 1537z, STREAMER transmitted a 26-character EAM, simulcast on 6739 & 11244. Prior to this, NIGHTWATCH had been the net EAM broadcaster for many hours, all trailing the GHFS. Now, STREAMER transmitted the strings, all preceding the GHFS. At 1648z, MCCLELLAN worked STREAMER in voice & data. AUTOGRAPH 2019 USB worked NW 01. MCCLELLAN 1538 USB worked GROUP 99. MCCLELLAN put GROUP 99 through the challenge process before & after MCCLELLAN placed a pp for GROUP 99 (to what sounded like RAYMOND ONE or RAYMOND ONE TWO). OVERFLOW 1721 USB (female opr) worked MACDILL, then moved MACDILL to 11494.0 for voice and data work (unusual freq for MACDILL.) HEADGEAR 1437 USB called and raised NW 01 & also raised MCCLELLAN (who had been tuning up on freq). After being flustered for a moment, HEADGEAR took the opportunity to get MCCLELLAN to confirm NW 01 wkg freqs (Z175/Z190.) MCCLELLAN took awhile to come back to HEADGEAR (I suspect he was chatting w/ NW01 opr re the days business), & when he did return, MCCLELLAN immediately moved himself to 11181 to get away from the net. At 1448z, GEODETIC worked BACKPAGE and enters BACKPAGE into the net. At 1452z, HEADGEAR finally raised NW 01, and entered the net. HEADBOARD, & about 3 other stations, said to be in the net also. At 1536z HEADGEAR worked SERENADE & asked SERENADE if "...you want to use DELTA MIKEs or KILO CHARLIEs" (maybe possessive case; if so, who?) At 1542z SERENADE and HEADGEAR discussed waiting one hour for UHF data work. At 1640z, HAYFEVER (female opr) called BACKPAGE, then "any station". At 1649z, HAYFEVER (now male opr) called BACKPAGE again. At 1843z, HAYFEVER worked HEADGEAR in clear voice & long stretch of ANDVT, then moved to Z215. At 2139z, NW 01 w/ a 42-character EAM (5K3Y6U...), leading the GHFS broadcast of same. At 2148z, NW 01 raised HEADBOARD and moved to Z155, found to be 5875.0. WAR46 0034 USB called NW 01. At 0134z, YULETIDE (sounds like) called NW 01. At 1403z, NW 01 w/ an EAM to ALLEY OOP. At 1404z, BOWLEGGED worked NW 01. At 1447z, TIGEREYE (female opr; and high up in the net pecking order) worked ALLEY OOP. At 1506z, TIGER EYE worked OVERSLEEP & OVERSLEEP passed a message of five 3-element groups to TIGER EYE. At 1629z, EFFICIENT (lots of chatter in the opr's background) worked NW 01, & moved to Z225. At 1634z, EFFICIENT worked NW 01 req to check into the net. NW 01 told him to standby (probably so he could get his challenge materials ready). TIGEREYE (female opr) immediately popped up on freq; raised EFFICIENT; passed a multi-group of 3-elements to EFFICIENT; and then told EFFICIENT the primary & secondary wkg freqs, all w/out being asked, and before NW 01 had checked the station into the net. TIGEREYE was definitely "something special" in the net today (this is not normal net practice or protocol). At 1641z, NW 01 worked EFFICIENT and entered him into the net. RINGBOLT 1744 USB (or RINGBOAT, or sounds like) worked NW 01 for a signal check. At 1826z, RINGBOLT worked METHODIST, w/a req to pass to TANGO JULIET MIKE the message "1432." PANHURST 2036 USB worked NW 01, & enters the net. At 2059z, NW 01 worked JUNEDAY. At 2113z, JUNEDAY worked PANHURST. At 2217z, NW 01 w/ 124-character EAM, trailing the GHFS bcst of same. FOGHORN 0010 called NW 01, then "any station this net", and finally raised NW 01 (heavy "whine" on audio) for a signal check and gone. At 0100z, very weak station w/ 68-character EAM (PKFBUR..), trailing the GHFS bcst of same. TRUTHFUL 0147 USB called NW 01. At 1547z, HEADACHE called NW 01, then "MAINSAIL" (odd). At 1557z, HEADACHE called MAGNAVOX (no response; active in the net 10 hours earlier.) PINKERTON 2244 usb called NW 01, then "any station this net." NW 01 0009 USB passed a 106-character EAM (PKJGNE..) to HIGHTIDE, w/the string first heard on the GHFS at 2209z 27 Sep 96. NW01 then immediately passed a 50-character string, followed immediately w/the PKJGNE... string, w/ the 50-charcter string appended to the EAM, bringing the character count up to 156 (+/-). Not heard before by me. DANDYLION 1838 called NW 01. SONGBIRD (female opr) 1713 USB worked NW 01. At 1842z, LOSTSHOE worked NW 01 & entered the net. SHAMROCK 0657 USB called NW 01. At 0711z, SHAMROCK called NW 01. At 2243z NW 01 (female opr) called FIREDOME, ESSENTIAL, & BELTTIGHT. At 2253z, NW 01 w/ 26-character EAM (4T...), trailing the GHFS broadcast of same. TABLETOP 0001 USB called NW 01. AT 0002z, TRICYCLE called NW 01. At 1703z, MCCLELLAN called POPULATE

("I have traffic.") At 1704z, POPULATE (male opr here; female on 11181/11229) responds to MCCLELLAN, and MCCLELLAN goes immediately into data comms. (JH) PACAF 01 0110 USB pp through Hickam Global to "ARCTIC WARRIOR" (Elmendorf Command). PACAF 01 0135 USB pp through Hickam Global to PACAF Command, callsign: "FOOD STORE" (or something like that) DSN 488-8500 (JJ) SPIRITUAL: 2322 USB clg NIGHTWATCH no joy moved to Z185 (9809). (KW2) NW 01 wkg WAR 46 w/ signal checks & pp to 271-xxxx,Raymond 21. NW states he has departed Offutt at 1700z, enrt to Wright-Patterson, ETA 2000z. Lots of chatter & some data today. (MG) ALLSTATE 0432 USB clg NW 01 on "Z-175", no joy, shows up on 11175 a few mins later wkg Hickam w/pp to NW 01 to confirm wkg frequencies. NIGHTWATCH 02 2018 USB wkg NW 01 for signal checks. (RB)

9017 ANDREWS 1918 called SAM 681. (JH)

9018 GOTH 12 2233 USB clg GOTH 11. Same at 2315z. Back up again at around 2345z+/-, w/ remark that he would see him on the ground (in the blind - eta at "2400."). PATCH 16 (or sounds like PATCH) clg _____11 (could not make it out.). (JH)

9023 OKIE SAM 1611 USB worked DARKSTAR MIKE (w/ "chopped up" audio) DRAGNET SIERRA 1959 USB worked DEERHUNTER. At 2003z, CHALICE BRAVO worked DEERHUNTER. At 2009z, DRAGNET SIERRA "MCC" (maybe SENTRY 60) wkg EAGLE CONTROL, and asking about EAGLE 3 & CURRENT OPS. At 2010z, "CHALICE" worked DEERHUNTER, and stated he was waiting for BIGFOOT. BANDSAW GOLF called OKIE SAM. DRAGNET SIERRA 1356 USB called OKIE SAM. (JH) WINI-18 1718 USB clg PROJECTOR on "9 upper". Also BANDSAW INDIA ref freq "Delta 4" OKIE SAM also at 1725z ref a 5% error rate on the datalink. DARKSTAR MIKE clg BANDSAW INDIA at 1738z. (LCB) BIGFOOT: Unid USB wkg unid re tracking of multiple bogies at 420 kts, 33000 feet, apx qth: 35N/94W. (RA) (BIGFOOT is NORAD 25th Air Defense Region sector control facility McChord AFB, WA -LOGS) BLUECRAB: Unid NORAD 0059 USB wkg DEERHUNTER w/ANDVT ck, no good. OKIE SAM: NORAD SE Sector Op's Center at Tyndal AFB, Fl 1518 USB wkg DARKSTAR MIKE (E-3 AWACS) w/coordination traffic. DARKSTAR NOVEMBER: (E-3 AWACS) 1519 USB clg Trenton Military, no joy. BANDSAW GULF: E-3 AWACS 1529 USB wkg DEERHUNTER, reports take off time of 1433, gets squawk code & net briefing prior to entering the net. DRAGNET SIERRA: E-3C AWACS 1533 USB wkg NORTHERN LIGHTS re DRAGNET NOVEMBER att to enter the net. DRAGNET TANGO: E-3C AWACS 1634 USB wkg BANDSAW GULF w/NORAD training comms. CZJV: HMCS Terra Nova 1650 USB (DD-259) Canadian destroyer, wkg DRAGNET TANGO re will be off the circuit for about 30 mins. BANDSAW HOTEL: E-3 AWACS 1705 USB wkg OKIE SAM w/new contact report. NORTHERN LIGHTS: NORAD Station 1834 USB wkg DARKSTAR NOVEMBER re civilian emergency at 3745N/07919W, track 2152 at 9000 ft, 278 kts, mode 3....exercise? 6MZ: 2241 USB clg SIDECAR, then 'any station', no joy here. (RB)

9023.2 AIR FORCE 2, in bound from Moscow 0450 LSB following & Wkg SAM 972 trying to establish a link, most likely data, w/out success. (PS)

9025 Unid aircraft (maybe "456"; strong here) 1838 USB worked ____ (missed id) & said that he was ex Memphis. Periodic ale pulses on freq. (JH) YANKEE-FOUR-XRAY (Australian accent) 0542 USB wkg ZULU-FOUR-JULIET. Passing coordinates w/phrases like:"Tack 6 probable hostile" & "radar decoys." Also using names: "Ridgeback," "Greyhound" & heard mentioned once, "Alligator Control." Lots of comm chatter heard in the background when Y4X xmitts. Gave posn as 280 miles west of Darwin. (JJ)

9031 ALF 6132 1618 USB Architect, pp Aeromed tasking on route Brussels ETA 2220. Rafair 15L2 1123 USB (Nimrod) Architect w/pp to Kinloss Ops. on the ground Lajes departing 1200 enrt Puerto Rico ETA 1800. Ascot 9432 1442 USB Architect, pp Ascot Ops. change of intentions now routing Coningsby ETA 16:45. (ANUK) ALF6128 1104 USB wkg Architect. Req wx, but not workable, will call later. IFN88: Tristar ZE704 1157 USB wkg Architect. Requesting wx for Ancona, asked to stand-by. SELCAL watch LMBJ. (JS) D9B 0402 USB wkg X3W, E3W & S6J, one unit said the 'thrill' has been secured. (HF)

9057 NIGHTWATCH 01 1448 USB worked PIPESTEM; PIPESTEM worked URGENT. Weak EAM activity 1749 USB (probably NW 01) w/long weak EAM string, that turned out to belong to the 5K... static series, but not heard by me from the GHFS stations. It was sent to REITERATE. At 2043z, NW 01

called REITERATE, & adv REITERATE that ROMAN LAD had checked into the net a few minutes earlier on Z205 (11494). (JH)
9120 Andrews VIP 2357 USB clg SAM 681 w/ no luck. Andrews VIP 1835 LSB setting up AF-1 comm freqs w/ SAM 28000. Clear-voice and ANDVT comms. (JJ)
9143 COWBOY 0105 USB wkg STRIDER for KL-43 data traffic. So far they've had no luck getting the thing to work. (JJ)
9145 DELTA 31 0308 USB clg BIGSKY for a radio chk. No joy. DELTA 31 (in the blind) "Going to UHF." (JJ)
9320 SAM 28000, 2150 USB on the ground at MOFFETT, wkg Andrews VIP w/ signal cks. Also heard on 8058.0 (probably F-054, but not yet confirmed here) and 6986.0. Then at 2206z, from 6986.0, moved to F-476.....not found here. NIGHTWATCH 01, 2245 USB after many calls, contacts Andrews AFB regarding data comms on this freq: TE-205, 75bd. async. (JJ)
10045 UNID "48"... "standing-by this freq." 1845 USB. (JJ)
10046.5 4XZ: INy Haifa (ISR) 1235/0020z CW v-mkr, 1445/1545z 5LG's after header, e.g.: "= NR 246 KRV MB9C 517122 BU3R GR 55==", end w/same phrase and "==AR AR", then v-mkr at 1549z (ANDL)
10199 BROADSWORD 2304 USB wkg CROSSBOW-8, "We'll be standing by on this frequency...out." (JJ)
10201 BROADSWORD (maybe off freq.,see 10199.0) 2234 USB clg CROSSBOW-7. No joy. Before signing off BROADSWORD said (in the blind), "Forwarding (sounded like) to CHARLIE-OSCAR-ECHO-INDIA." (JJ)
10202 ANDREWS 1610 USB worked SAM 201, and discussed use of "six" and "13" (presumably freq ranges.) (JH)
10204 NIGHTWATCH 01 1658 USB worked ABANDON, who passed to NW 01 an EAM string first heard at 1610z on the GHFS. At completion of string, NW 01 acknowledged his traffic, and then complained of the propagation conditions. At 1715z, NW 01 worked QUART JAR, and passed wkg freqs of Z190/Z175/Z215. NW 01 1617 USB worked a barely heard TRILLION (sounds like.) NW 01 2101 USB worked JUNEDAY (probably USN), both at fair levels. NW 01 request JUNEDAY move to ZULU 200, which JUNEDAY misheard as ZULU 300. HIGHTIDE 0056 worked NW 01. Still active at 0121z++. PIPESTEM 1449 USB worked NW 01. (JH)
10205 SAM 27000 2333 USB wkg ANDVT comms w/ Andrews VIP. (JJ)
10242 ALE pulses strong (20db over S-9) and regular 2100 USB. (JJ)
10665 OVC: Danish Navy Groennedal, GRL 1236 CW 39.5wpm "vvv OVC 25/51/76/82/10 zkr 25/51/76/82/10 mhz" (PB)
10780 Cape Radio 1950 USB qso base 99 fuel berthing reqs shift = freq to 7.833 usb comms scrambled the rest of the day. (RT2)
10872 FDI0: French Air Force, Nice 1540 CW, "vvv vvv vvv de fdi0 vc" marker (MC)
10995 K9X 2235 USB clg N5C, 9BQ, and "any station this net", possible USN Tactical Coordination OP's? (LCB)
11023 ANDVT comms. 2234 USB. (JJ)
11053 SAM 206 1330 USB wkg Andrews VIP on F354. (AD2) SAM 202 1957 USB wkg Andrews VIP for pp to Sherman Base Ops: DSN 552-6041 & DSN 552-2396.Two DV and six PAX. ETA Sherman: 2200z. GHOST (no number given) 2245 USB wkg unid for msg. relay to party at a UK phone number and gone. Also heard a third unid player involved w/ these comms. Overall, these comms had a tactical sound to them (very terse). (JJ)
11056 Andrews 1851 USB wkrg PP for SAM 201 DNS#564-4063 ext 6493/6494 (Gitmo meteo). Andrews 1855 USB requests QSY to F311. (MF2)
11061 UNIFORM-5-NOVEMBER 0122 USB wkg DELTA-2-ECHO, and others, "in the clear" and ANDVT comms. ECHO-2-TANGO 0012 USB wkg PAPA-6-OSCAR setting up SATCOM, "Your antenna should be pointed at 253 degrees." (JJ)
11118 SAM 206 1547 USB wkg Croughton after QSY from 11175 w/pp to American Embassy, Dar-Es-Salaam, Tanzania. Other phone patches until 1644. (ANUK)
11153.5 AIR FORCE 2 2316 USB wkg Andrews VIP for a signal chk. SAM 203 2255 USB wkg Andrews VIP for pp traffic. (JJ)
11159 Andrews VIP 1835 USB wkg SAM 201 on F-919 w/ signal checks. ETA at (?) is 1925z (JJ)
11175 REACH V7 1827 USB w/Ascension, pp to Aviano Metro wx for 0000 (C-5 a/c Tail No. 84-00060). Reach 45V3 1844 USB Incirlik pp to Rota command post, KC-10 aircraft A1, inbound from Lajes. Reach 2G5 1335

USB Croughton w/pp to Rota AMCC and Metro, ETA blocks 14:55 A1 status, 75 pax (Tail No. -0019). Navy LF16A 1548 USB Incirlik w/pp to Sigonella Base ops. Reach V5 2018 w/pp Norfolk Metro wx for 2300. Navy 50496 1252 USB Wkg Croughton ETA RAF Northolt 15:30 also req pp. Murky 1439 USB Clg Mainsail many times, no reply. U-2 ?? Reach 0275 1908 USB Croughton, w/pp to Dover command post, ETA Dover 01:15 349th ARW. (ANUK) ROLLER 05: C-130 ANG 152nd AW Reno NV 2302 USB w/Ascension Radio, req pp to DSN 830-xxxx Reno Ops re crew member logged 9 hrs. & to pass it on to crew scheduling. Also 1 hr.out from home base & will not be landing at McClellan. SOONER 14: C-130 2312 USB clg Offutt Radio. No contact then Mainsail any station. Ascension radio answered. p/p to DSN 440-xxxx (McGuire AFB, NJ) request ppr # for 0500z arrival from Base ops. ppr # WRI 30-04 point of departure LRD. GASER 91: MC-130P 9th SOS Eglin AFB FL 0027 USB w/Ascension Radio p/p to DSN 872-xxxx. Eglin Wx for updated Wx forecast especially forecasted thunderstorms in area. HAWK 90: B-1b 7th BW Dyess AFB 2326 USB clg MAINSAIL. Andrews answered and HAWK 90 reported Ops Normal. TU-- 02: (missed the complete spelling of c/s) 2341 USB w/ Ascension Radio p/p to 34th Bomb Sq. Reported both ships completed A/R. p/p terminated after joke about cookies. AUSSIE 298: RAAF C-130 0023 USB FL 270 31-30 North 138-20 West (just about 1/2 way between Hawaii & No.Calif) w/Hickam radio pp w/Travis AFB, CA Metro req. Wx for arrival @0320z followed by pp w/Travis Dispatch for normal a/c servicing. GASER 12: KC-135R 2310 USB over Amarillo, TX FL 22.0 w/ Ascension Radio requested p/p w/ Offutt AFB, NE Metro for Altus AFB, OK forecasted weather. (BH) JM304 1430 USB clg Croughton, no joy. REACH JZF7: 1445 USB pp. PUMP 25: 2000 USB wkg Ascension w/pp Dover metro wx for FOK 2100z. ELVIS 00: 2130 USB wkg Ascension w/pp Rota metro enrt ??SE, pirep posn 10490N 33520W C141. TURBO 03: 2140 USB wkg ? w/pp DSN 723 arr msg. HOTEL-1-XRAY: 1920 USB wkg Ascension w/pp DSN 624 5361 Sigonella. Alternative pp to Sigonella. Com guard group 3... (missed the rest). (CH) STINGRAY 35: US CUSTOMS A/C USB 0210 wkg Albrook. QTH of A/C is 0928N 07757W. STINGRAY was instructed to intercept target located at 0847N 07929W Heading 357 Speed 90 kts Altitude 2700. Albrook asked if STINGRAY was able to intercept & received a positive response. STINGRAY was instructed to come up on 8972 for HF comms and to remain in Panamanian territory until the intercept was made. (DW2) FELIX 100 UTC? USB wkg CAMARA-Ops (Ramstein) w/messages for FREEBIRD 95. Does anyone knows FELIX 100? (GB) POSSESSOR 0212 USB clg Mainsail, gives test count. (HF) REACH-T2 0825 USB wkg Croughton PP Incirlik CP ETA 10.20Z IF001 C-130 USAF 0933 USB wkg Croughton PP Ramstein METRO Wx 11.30Z followed by PP Ramstein CP ETA 11.30Z, 5 pallets, no passengers, A1. BLUE 62 KC-.. 1000 USB clg Croughton several times, no-joy. IFB12 CC-130 USB wkg Croughton Enroute Zagreb ETA 12.00Z req pp Trenton DSN 827-3811. GOLD 75 0945 USB wkg Croughton Had a phone-patch w/Hilda-East to get his diplomatic clearance. Destination was OMAM (Abu Dhabi/Al Dhafra, UAE). Tailnumber 40188. SNICK 67: HC-130N 67th SOS 0950 USB wkg Croughton PP 622-2658 PROMENADE. ETA your station 1100Z, negative contact on 10Megs. REACH-G7 0956 USB wkg Croughton pp 238-2121 BANNER control ETA 1155Z, request to acquire the Wx for 1155 at EGUN. (JD3) (this was probably BANTER CONTROL at RAF Mildenhall w/238 DSN -LOGS) GOLD91 1428 USB but unable to read. Together w/the GOLD 92 he might have been supporting some F-18's (RETRO41) that went to Laage in former East-Germany. LANDFALL 1720 USB clg MAINSAIL "w/ request", no apparent answer (plus, he was also active in 11244 w/ similar calls, except that on 11175.0 he did not have a "long" beep on his signal when he unkeyed his mic). ALBROOK GLOBAL 2317 USB clg SPAR 84 "w/ request", w/ no response. At 2337z DANDYLION called MAINSAIL & raised MACDILL for a brief signal check, & gone. HICKAM 0245 USB worked what sounded like STRAYBALL; then worked what sounded like NIGHTWATCH 01. MACDILL 1844 USB wkg NOAA 43. COBRA 14 1430 USB worked ANDREWS, w/pp to a DSN 942 number. At 1411z, MCCLELLAN MAINTENANCE called MCCLELLAN GLOBAL. OFFUTT 1931 USB worked SAM 204. At 2317z+, GOTH 12 worked ASCENSION w/pp to a DSN 675 number. At the same time, GOTH 11 (who GOTH 12 had been trying to raise on 9018.0) worked ANDREWS w/pp attempt. Eta was at "2400". Q1Z 1929 worked MACDILL w/an "Exercise Esteem Highly Alpha" pp. DANDYLION 1845 USB

called MCCLELLAN. At 1849z, DANDYLION worked MACDILL, and moved to 11181.0 for data. AIREVAC 60185 1657 worked ALBROOK w/pp to FURIOUS. C141 at 24 16N, 87 11W. At 1959z, SNOOP 41 worked MACDILL for a signal check. SCARS 59 1726 USB worked OFFUTT w/pp to DSN (317) 626 number. TRICYCLE 0004 called MAINSAIL, and raised HICKAM, looking for NIGHTWATCH wkg freqs. At 1437z, SAM 204 worked ALBROOK. DRAGNET SIERRA 1348 USB worked ANDREWS w/pp to OKIE SAM. Apparently for the past week or so, their PAPA UNIFORM aliases have been U.S. beer brand names (MILLER today). SNOOP 55 (male opr) 1328 USB worked SNOOP 44 (female opr) for a radio check. At 1622z+/-, ANDREWS w/in the blind "EXERCISE INJECT" groups. Startled to hear this because these events usually happen on the next to last Tuesdays of the month, not the second Tuesday. The last time the second Tuesday was used was in Sept 1994, a clear indication (in hindsight) of the Haiti invasion two weeks later. As in the past, the "exercise" ended around 2019z+ w/MACDILL (clg AXE KNIFE.) At 1726z, MACDILL called SNOOP 55 w/ no response heard on this freq. VS7U 1622 USB worked OFFUTT w/a pp to a DSN 942 number. At 1639z, SAM 974 worked MACDILL, who adv SAM 974 to move to "731". GORDO 15 1358 USB (apparently just ex ANDREWS enrt to OFFUTT) w/pp to NW 01 (self-id'd as at "home base" but soon to depart). Pp to a common DSN 271 6### number, id'd by GORDO 15 as NIGHTWATCH CONTROL. GORDO 15 also ran pp's to OFFUTT at 1423z & 1442z (adv that they had moved their eta up by one hour.) LOGAN 13 (sounds like) 1911 USB worked ____ (missed GHFS id) w/pp to GOLDEN HAWK. "Search" chatter. NOMINATE 1403 USB worked MACDILL for NW 01 wkg freqs: Z145/Z130. (JH) KE965 USB wkg Croughton pp DSN 624-5121 (1st Reron (?), Sigonella) to Duty Officer (Loin Chop?) Traffic for 9TI, req pass status of EO once over target. (JS) REACH 0024: 2338 USB wkg Ascension pp Shaw Base Ops USB wkg metro arrival time 0200Z self id'd as C-5 acft. REACH 266: 2348 USB wkg Ascension pp metro. JERSEY 81: 1128 USB clg mainsail no joy. GOLD 91: 1129 USB clg mainsail no joy. JERSEY 81: 1130 USB wkg Albrook pp Hilda East regarding offload of fuel to 2 aircraft Id'd as Tail#591503. NAVY LIMA 26B: 1139 USB clg mainsail w/ Albrook answer for rdo ck loud USB wkg clear. CONDOR 1: 1140 USB clg Andrews no joy. NAVY LIMA 26B 1149 USB wkg Andrews pp DSN 284-XXXX ops arrival Panama 1320Z. (KW2) Albrook 2015 USB wkg pp for REACH 8 JULIET 7 to FURIOUS & Howard meteo. Albrook 1822 USB w/pp for SHARK 49,to Howard meteo for weather at MPHO-Howard,AFB. Albrook 1827 USB w/pp for SHARK 51 to LOBO. Ascension 1839 USB w/pp for 08 DELTA MIKE to Ramstein,CP. Albrook 1811 USB w/pp for SHARK 65 to LOBO. Albrook 1913 USB w/pp for ASTRO 02 (maybe ASTRA or ASTER)to FURIOUS & Howard meteo. Albrook 1905 USB w/pp for SHARK 41 to LOBO. Andrews 1923 USB w/pp for REACH 0013 to Dover CP. Albrook 2101 USB w/pp for STINGRAY 12 to SOUTHBLOCK or SOUTHROCK. INDIA JULIET 8 2107 USB clg Bayonne Global for radio check, MacDILL answered. MacDILL 2113 USB w/pp for REACH 269 to Seymour Johnson,AFB. Albrook 1753 USB w/pp for REACH 517 to Pope meteo. Albrook 1754 USB w/pp for SHARK 47 LOBO. Albrook 1756 USB w/pp for Shark 41 LOBO. REACH 1843 USB 623 clg MAINSAIL,nothing heard. Albrook 1844 USB w/pp for SHARK 16 to Howard meteo. ROMEO YANKEE 150 1846 USB clg MAINSAIL,nothing heard. SHARK 48 1848 USB request Albrook to relay ops normal to LOBO. Albrook 1755 USB w/pp for SHARK 25 to LOBO. Albrook 1809 USB w/pp for SHARK 41 to LOBO. Albrook 1835 USB w/pp for SHARK 23 to LOBO. Albrook 1925 USB w/pp for SHARK 17 to LOBO. Albrook 2023 USB w/pp for SHARK 62 to LOBO. Andrews 2040 USB w/pp for REACH 8086 to HILDA WEST. REACH 0223 2045 USB clg MAINSAIL,nothing heard. Albrook 2051 USB w/pp for SHARK 22 to LOBO. Albrook 1823 USB w/pp for SHARK 26 to Lobo. Albrook 1851 USB w/pp for REACH 12 UNIFORM TANGO to HILDA West & FURIOUS. Albrook 1804 USB w/pp for AEROVAC 270 to Langley meteo. Albrook 1809 USB w/pp for DAWG 03 to Howard meteo. Albrook 1836 USB w/pp for ELVIS 83 to Lobo. Albrook 1837 USB w/pp for SHARK 29 to Lobo. Andrews 1859 USB w/pp for REACH 0168 to DNS#444-6193. Albrook 1907 USB w/pp for SHARK 25 to Lobo. Albrook 1801 USB w/pp for HOTEL ROMEO 1 MIKE MIKE to DNS#284-3965 Howard Base Ops. Albrook 1831 USB w/pp for SHARK 19 to Lobo. Albrook 1833 USB w/pp for SHARK 22 to Lobo. Albrook 1853 USB w/pp for REACH 67NOVEMBER 1 to Rosy Rds CP & meteo. REACH 0461 1843 USB clg Mainsail,nothing heard. Ascension 1846 USB w/pp for REACH 18186 to Rosy Roads,PR meteo. Offutt 1849 USB w/pp for REACH 194 to

Andrews CP. Ascension 1948 USB w/pp for REACH 068 to Antigua Fire Station. Albrook 2012 USB w/pp for REACH 0461 to FURIOUS. Ascension 2015 USB w/pp for REACH 166 to HILDA meteo (C-141 Tail#70166) (MF2) TEAL 07 2057 wkg MacDill w/pp to ABC Radio for interview. 07 just made its third pass through the eye of Hurricane Hortense and found 140 kt winds. EXECUTIVE ONE FOXTROT 0129 wkg Ascension w/pp to SAM Command, who gave them a freq. of F731. (MJ) JAWS 51 (?) 0040 USB w/ a pp to SANDCASTLE (?) ops via Ascension -- stated he was code "delorean" (MK) (JAWS are MC-130E's AFRES out of Duke Field AS, Fl; SANDCASTLE is 919th SOW, Duke Field -LOGS) FILESAND 1457 USB w/pp to NIGHTWATCH via MacDill -- needed wkg freqs and advised NW that FILESAND< GOALPOST & another name I couldn't make out were trying to call on posted freqs w/ no joy. LIMA ECHO 585 (P-3) 2242 USB w/ a pp to unid via MacDill. ASCOT 5658 (C-130) 1540 USB w/ app to Andrews wx CASEY 01 (KC-135E) 1541 USB w/ a pp to Wright Pat. metro for arrival wx, CASEY 01 then made a pp to Wright Pat. CP stating he is repositioning for a trip in the AM on Saturday w/ a DV2. Wright Pat had no idea CASEY 01 was coming. CASEY told him he may be filed as LOOK ##. HADDOCK 55 (tail number 41670) 1545 USB w/a pp to Hilda East via Andrews -- stated he was off LS? enroute to BAB (Beale afb). SHUCK 96 (poss E-3) 1553 USB clg Andrews and Offutt w/ no joy. LIFTER 24 (C-141) 1623 USB w/pp to Charleston via MacDill -- asked about tanker BALKY 92 (?). NIGHTWATCH 1729 USB clg Mainsail w/no answer. Offutt: 1821 USB clg BACKPAGE, no joy (MW) SHARK 83 2342 USB wkg LOBO PP via Albrook (PS3) NAVY RW37: Navy C-2A, UC-12B or 0025 USB UP-3A of VRC-30 "Providers" at NAS North Island, clg 'mainsail' no joy here. NAVY RJ605: Unid unit 0049 USB clg Elmendorf GHFS, no joy here. NAVY RY090: Navy C-9B Skytrain of Fleet Logistic Support Wing, VR-59, "Lonestar Express", at NAS Dallas, Tx, 0317 USB clg Offutt global, then mainsail, Hickam answers but is not hrd. NAVY JU256: Navy C-9B Skytrain of Fleet Logistic Support Wing (USNR) VR-56, "Globematers", of NAS Norfolk, Va 1459 USB clg 'mainsail' for sev mins, no joy. NAVY LK26B: Navy P-3C-III 1503 USB of VP-26 "Tridents" (like the TRIDENT 7xx's we hear on 8971), NAS Brunswick, Me, clg 'mainsail' for sev mins, no joy. PYLAR 04 (spelled): unid a/c 1518 USB wkg Offutt GHFS w/pp March meteo. NAVY JW650: Navy C-9B Skytrain of Fleet Logistic Support Wing (USNR) VR-62, "Motowners", of Selfridge ANG, Detroit, Mi 1648 USB clg 'mainsail' for sev mins, no joy. NAVY LW688: P-3C, VP-68 "Black Hawks", NAF Washington D.C. 1649 USB wkg Offutt GHFS w/pp to Andrews AFB for ETA, ID's as a P-3C. Navy 676: VP-3A Bureau # 149676 of CINCLANT 1740 USB wkg Andrews re support frequencies. GOOSE 71: MC-130E? 1809 USB wkg Offutt GHFS w/pp Duke Field (Elgin AFB) Op's Center at 875-DSN, SANDCASTLE Op's (919th SOW CP at Duke Field) answers, 71 req they re-open the field as they are returning re a minor maint problem. (RB) Reach 11V3 1942 USB wkg MacDill GHFS/Pp to HILDA EAST inbound Signonella ETA 2105 tail #50276. (TO)

11181 NIGHTWATCH 01 1618 USB (fair to good level) called TRILLION. NW 01 2101 USB responded to a call from JUNEDAY. DANDYLION 1849 USB worked MACDILL. NW 01 1637 advised POPULATE that DEEPWELL receive his traffic ok at 1631z. At 1717z, NW 01 called DEEPWELL. At 2238z, NW 01 w/a 26-character EAM string (4T...), trailing the GHFS broadcast of same. NW 01 then called SILICATE. at 2240z, SILICATE called & raised NW 01. (JH) ARMY ARCHER 1842 USB wkg WGY916 for date/time msg., "H231840". PACCOM 01 (radio op # 1) 0235 USB wkg Hickam Global for pp to "DELTA OSCAR" at PACCOM COMMAND Re: Bad # 4 hydraulic pump. (see 13204.0) (JJ) BLADE 01, inflight 0045 USB pp to base op's at Andrews. Looking for directions to AIR FORCE 1 parking. (PS)

11187 TABLETOP 0015 USB active on freq. OUTBOARD 1758 called BOOMTOWN.(JH)

11212 MAGIC CARPET SIERRA 2150 USB in comms w/ HABITAT reports that he has KNIGHT 1 & KNIGHT 2 (unIDed aircraft) strong (referring to VHF/UHF comms or maybe RADAR?) since KNIGHT 1 and KNIGHT 2 cleared the Olympic area.(The Olympic Mountains National Park are just south of NAS Whidbey Island.) (JJ)

11214 SENTRY 50 1801 wkg TRENTON MILITARY. SENTRY 61 1757 USB worked TRENTON MILITARY, w/pp to EAGLE ONE. (JH) VENUS 74 1900 USB wkg VENUS 71 and Andrews VIP. (Just caught the tail end of this) Andrews VIP 0135 USB wkg unID (Presumed SAM 049 & 29000) "This freq. will be

your primary and AF1's secondary." Andrews VIP wkg SAM 201 C-20, 1655 USB DV 2 + 5, w/ lots of pps to New York from a couple of non-US Generals on board 201. I believe these guys are Turkish. (still making pps at 1755z) ETA to (?) is 2120z. (JJ)

11217 TEAL 57: WC-130 53rd Wx Recon Sqd, at Kessler AFB, Ms 1624 USB wkg MacDill w/pp. (RB)

11220 SAM 27000 0900 USB wkg Pentagon. Also on 8026.0. (GD3) SAM 204 1440 USB called ANDREWS; ANDREWS called SAM 204, w/ ANDREWS not hearing SAM 204. Andrews VIP checking this freq for AF1 primary w/SAM 28000, SAM 403, and SAM 29000. Secondary freqs checked so far: 4448.0, 6717.0, 13204.0, and 15048.0 It sounds like 6717.0 is going to be secondary for the time being. SAM 26000, 2209 USB enroute to Shannon, wkg Andrews VIP for pps. ETA to Shannon. 0030z and then on to Tel Aviv. (JJ) Andrews 1858 USB & 201 conducting radio check,Andrews goes looking for another freq. (MF2) SAM 201: USAF C-20B tail 86-0201 1404 USB wkg Andrews w/signal ck's on "311". (RB)

11229 AUTOGRAPH 2016 USB worked NIGHTWATCH 01. At 2043z, AXMINSTER (EAM broadcaster) worked AUTOGRAPH, w/ AXMINSTER showing great impatience w/an unheard request from AUTOGRAPH (the opr sounded a little "stressed.") At 2044z, AXMINSTER raised NW 01 and told him that AUTOGRAPH had gone "monitor only." At 2203z, WAR46 worked NW 01 for a radio check, followed by a now very weak AXMINSTER who worked WAR46 & had WAR46 advise NW 01 that AXMINSTER can no longer hear NW01. POPULATE (female opr) 1713 USB , simulcasting on 11181 & 11229, w/ 33-character EAM string (IHB66R...), picked up by GHFS at 1718z; & 39-character EAM string (IHAKHJ...), picked up by the GHFS at 1728z. At 1717z, POPULATE worked _____ (missed the id), looking for DEEPWELL. At 1718z, NW 01 worked WAR46. (JH)

11232 CANFORCE-2787 2311 USB wkg CANFORCE MILITARY w/pp. (LCB) Trenton Military 1912 USB wkg 2803 w/wx for Tempo? Trenton Military 1920 USB att pp for DARKSTAR MIKE who kept mentioning they were in sector 5. No joy w/pp after 3 tries. (MS6) MAGIC 57, inflight 1951 USB passenger w/pp to his son via Trenton Military. (PS) CHR: Trenton Military, Ont 2302 USB wkg CanForce 1561 passing updated flt plan re departed MFZO 171600z; will arr SEGU 172359z, dep 181600; arr SCVM 182330z, dep 191600z; arr SEGU 192359z, dep 201700; arr TNCC 202230. (RB)

11243 _____ 72 2153 USB (could not make out callword) called SKYBIRD. Also found on 6761.0. (JH)

11244 OFFUTT 2328 USB w/EAM "for TACAMO PAC PRIMARY" MACDILL 2330 USB w/ an EAM "for TACAMO PAC PRIMARY" I think the content was the same except there was a break for some chuckling. OFFUTT 2141 USB first clg MAINSAIL, but w/ EAM for TACAMO CENT PRIMARY (also on 11175). OFFUTT 2143 USB first clg MAINSAIL, but w/EAM for TACAMO PAC PRIMARY. And I think the content was the same as the previous EAM. (EA) LANDFALL 1557 USB clg MAINSAIL for a radio check, w/no response. He did this often, again w/ no response. He had a distinctive "long" beep at end of each transmission. At 1959z, MCCLELLAN w/a 154-character PK... EAM (missed the first part of it, but caught the "errors" at the end of the strings to get a count.) MCCLELLAN, 1657 USB as lead GHFS station, w/ 20-character EAM "for" what sounded as "FOR AHMED; PUNJI; JULES; AND YELLOW" (or somesuch.) For the rest of the local day, there seemed to be many such strings, most "for" what sounded like non-Anglo/American "names". MCCLELLAN 2024 USB w/28-character EAM (5KQI6O...). OFFUTT, 2209 USB as lead GHFS station, w/106-character EAM (PKJGNE...). ANDREWS, 1608 USB as lead GHFS station, w/66-character EAM string: JNSV4G.... At 2005z, ANDREWS w/20-character EAM string: JNGOCE.. Very unusual situation to have a 20-character EAM to have the same static set as a 66 (or whatever) character string, and to have a 20-character string series separate from the current 4T... 20/26 character strings. Starting on the first of Oct. MACDILL 1735 USB called MAILBAG w/ an all freq request. At 1624z ANDREWS (1618z for other GHFS stations, one of whose circuits (probably MCCLELLAN) was "seized" by ANDREWS) w/a 176-character EAM string (IHGPZM..). ANDREWS had to disregard the thing for a FOXTROT broadcast prefaced w/FAIRLY (VIG 26 AQ). At 1753z OUTBOARD worked MACDILL w/pp to BOOMTOWN, and he passed an "immediate precedence" message (3-element groups) to BOOMTOWN. (JH)

11247 Ascot 9432 1242 USB Architect, departed GCTS 1200 ETA Brize Norton 16:00 req wx for EGNX, EGNV, EGQL relay "C" selcal DJ-BC. Magic-87 0822 USB Wkg Architect w/ p/p`s to `Waddington` ?, mentions of Aviano, and Refuelling Tankers. Waddington reminded Magic-87 not to use Names/Rank etc on HF Comms. (IB) RRR5941 C-130 XV190 LTW 1356 USB wkg Architect. Dest EGQL 1710/20 Std Relay 'K' + Leuchars Ops. SELCAL AJBH. (JS)

11265 SENTINEL 37 1937 USB clg MAGIC 57, nothing heard. TRENTON MILITARY 1943 USB w/pp for MAGIC 57 to UNID # (MF2)

11460 Sam 206 1645 USB Andrews VIP discrete freq. F295 standing by for traffic. (ANUK) ANDREWS 1929 USB worked SAM 204. (JH) Air Force 2, 2150 USB DV 2 + 42, wkg Andrews w/ signal checks and pps. Since (at least) 1732z they've been using this freq from time to time while enrt to various locations. ETA to next destination (?): 2245z (JJ) SAM 403: USAF C20H, tail 86-0403 2154 USB wkg Andrews VIP on '295' w/pp Andy maint. (RB)

11494 NIGHTWATCH 01 1624 USB moved WAR46 here, and had WAR 46 "maintain" this freq as his primary wkg freq w/ NW 01. TABLETOP 0009 USB called NW 01. At 0010z, TRICYCLE called NW 01, followed on minute later w/ NW 01 clg TRICYCLE. TRICYCLE worked TABLETOP, w/neither hearing NW 01. At 0012z, TABLETOP advised TRICYCLE that NW 01 was monitor only for 30 minutes. At 0014z, ESSENTIAL called BOOMTOWN "on CHARLIE BRAVO" (misskeyed his transmitter.) PIPESTEM 1456 USB worked URGENT, & set up data freqs: Z211 (12070) for PIPESTEM to transmit, and Z205 for URGENT to transmit. (JH) PASTRAMI 2300 USB wkg NIGHTWATCH-01 ref switch to Z-175. (LCB) WAR 46 2251 USB w/pp for NIGHTWATCH 02. NIGHTWATCH 2301 USB req radio check w/STANDOFF. (MF2)

11508 AJE: USAF Croughton, UK 1900 B9W voice on LSB, VFT-6028 on USB, wkg NSY (8102.5). (JD2)

12984 4XZ: IN Haifa 1745 CW 5fgs. (BvR)

13200 THULE 2216 USB w/ 26-character EAM (4TP37S..) taken from GHFS transmission of same at 2206z. THULE then repeated this string at h+16 and h+45 for next hour or so, along w/ 4T54JG... (a now rare 4T.. 20-character string; heard on GHFS at 2238z.) (JH) REACH 4Q6: C-141B 1042 USB wkg Croughton for pp to Hilda East. Tail no 60154, ETA Lajes 1300 Maint Status A2 for Auto-Pilot, pp Lajes Metro landing wx 1300. (JS) HICKAM 0312 USB booming in w/EAM traffic. (LCB) SPAR 63 2322 USB wkg Offutt dispatch, wants to know if any people there waiting for them. Said will call again in 15m for POB wants to talk to person arriving there at Offutt. SPAR 63 2326 USB clg Hickam (AFB HI), no joy. SPAR 63 2320 USB wkg Offutt agn, wants to know if any relatives have called? Answer is yes, daughter has been clg. ETA given as 00:10Z Instructions given to SPAR 63 to taxi to red carpet before parking. Noted that Vice Commander StratCom will be there. HARDY 91 Heavy 2334 USB clg Thule, weak but readable. Location overhead Portland, Oregon. Req pp to Tinker (AFB OK), no answer. Tried 17.976 but no joy there w/Thule. (PS3)

13204 SAM 27000 2239 USB wkg Andrews VIP for data freqs: 6830.0, 8026.0, & 9017.0. PACCOM 01 (radio op # 2) wkg Andrews VIP for pp to "COMMAND POST" Re: Bad # 4 hydraulic pump. (I think I heard them say something about Mongolia?) They wanted wx for UMUB (?) But Yokota AFB didn't have an ID for UMUB. (Ulaanbaatar perhaps?) They had to settle for UHHH. (UHHH is Khabarovsk, Russia -LOGS) REACH 101, C-5, Tail no. 84060, 0000 USB ETA: OTBD 0308z wkg Ascension AB for pp to (what sounded like) Doha, for local Doha wx. (Referring to my vintage 1968 World Atlas, Doha is located in Qatar.) Also mentioned a country code 974 phone no. Advised that they are going to be off-loading 127410 lbs. on 7 pallets, 9 K-9 dogs (requiring special handling) , 73 PAX, & 8 vehicles. (JJ) Executive 1 Foxtrot 1746 USB wkg Andy w/signal ck's on F089. (RB)

13217 SAM 27000 2151 USB enrt to the Philippines, wkg Andrews VIP for pps to the Pentagon and Hickam AFB.(JJ)

13242 PIPESTEM 1751 USB called and raised URGENT, but did not hear URGENT. MCCLELLAN 2119 USB worked MACDILL in voice and data. MCCLELLAN did not receive the data ok from MACDILL, but as MCCLELLAN was in the middle of a shift change, they finished up for the day (that's 1419 local in California). SPOTLESS 1846 USB worked NIGHTWATCH 01. (JH) REACH 3269 1747 USB wkg MacDill Radio, unable to work them here for

pp, QSY to 9016, had DV's on board, poss Israeli/Palestine delegates for Middle East talks in Washington. Albrook GHFS, Panama 2107 USB wkg BLUET 21 w/pp unid loc, a/c is very weak here. (RB)
13445 ANDVT comms. 2030 USB. (JJ)
13485 ANDVT comms. 0130 USB (JJ)
13927 DAWG 07 1552 USB wkg unid USAF MARS station w/2 morale pp's, location was "somewhere over the Atlantic". (RB)
13960 ANDREWS 1932 USB worked SAM 204 re "preflighting" for 251000z+ takeoff on 667 upper and 295 secondary, then shutting down for the day. Andrews VIP 2346 USB wkg AIR FORCE 2 w/ signal checks from several different locations. Followed by a quick pp to COMMAND POST. (JJ) SAM 204: USAF C-20B tail 86-0204 1932 USB Special Air Mission a/c, wkg Andrews VIP on "291" re preflight freqs for next day. SAM 201: USAF C-20B tail 86-0201 1956 USB wkg Andy w/signal ck's. (RB)
14441.5 NNNOCFI:USS Gunston Hall 1811 USB Clg Stateside. (IB) NNNOCBU (USS Klakring) 1721 USB clg any ashore MARS station for pp traffic-no joy NNNOCYL (USS Kidd) 2054 USB w/NNNOXPQ (Lauderdale FL shore station) moved to 14477.0kHz for pp traffic. NNNOCOL (Unid ship) 2058 USB w/NNNORFH (Unid CA shore station) but no joy. NNNOCZI (USS Merrimack) 2223 USB w/NNNOHLQ (TX shore station) moved to 14470kHz for pp traffic (MR2)
14477 NNNOCMI (USS Robert Bradley) 2320 USB w/NNNOHLQ (TX shore station) for pp traffic (MR2)
14615 REACH 50003 (Also IDed as 5003) C-5 2200 USB , enrt to Davis-Monthan (DM) AFB, wkg Ascension for pp to HILDA WEST. ETA DM (also) 0015z. (JJ)
15016 MCCLELLAN, 1751 USB as lead GHFS station, w/a 71-character EAM (PKMUX7...). AXMINSTER (sounds like) 2027 USB w/ 26-character EAM, not heard simulcast on any other freq (but propagation was poor), w/ his xmsn being stepped on by ALBROOK phonepatch. (JH) Reach 1102 1445 wkg Croughton, pp to Hilda East Metro for wx for LICZ (Sigonella, Catania, Sicily Island, Italy). Reach 182209 1452 wkg Croughton, C-141 enrt LHBP (Budapest), pp to what sounded like 'DAO' or DEO', giving them overflying permit no. 72 351 77127. DAO (?) then said "we confirm 14 pax are booked for the Tel a Viv Holiday Inn hotel. We advise your next destination OJJR has no runway, it is a heliport only. Anyway your entry for that particular area is denied. Reach 408DM 1512 wkg Croughton, pp to Mildenhall metro for Mildenhall wx, eta 2000. Reach 1102 1529 (tail-no. 891190) pp to Hilda East passing eta for LQSA (Sarajevo). (MB3) REACH 0009 1938 USB clg MacDill,nothing heard. 1941 Andrews w/pp for REACH 0009 to Dover CP & meteo. Albrook 1758 USB w/pp for SHARK 65 to LOBO. REACH 0017 2011 USB clg MAINSAIL for HF radio check. Lajes 1848 USB w/pp for REACH GULF 5 to Norfolk CP & meteo. Ascension 1847 USB w/pp for REACH GULF 5 to DNS# 564-2442-Norfolk Navy CP (KC-10 Tail#20912). Albrook 1857 USB w/pp for NAVY PAPA TANGO 34 to DNS#476-2312/2319. Albrook 1933 USB w/pp for NOAA 43 to WPBT TAMPA,TV news feed. (MF2) McClellan: 1811 USB wkg REACH 0022 w/pp to Travis AFB for 2030 ETA. Andrews: 1837 USB wkg SHARK 12 (id as C-27) w/pp to Kelly Base Ops, w/ETA & departure/destination info. Rogers: 1849 USB wkg REACH GULF 5 (id as KC-10a) w/pp to Norfolk w/PIREP/pax/cargo. JONES 104: 1852 USB clg HAYFEVER w/msg rpt, no joy (MW)
15094 SAM 201, C-20, 1734 USB DV 2 + 5, wkg McClellan (discrete) for pp to KDAG (Barstow-Daggett) for arrival weather. ETA 2000z (JJ)
17010 TBO3: TN Izmir 1619 CW vvv de tbo 3 tbdj. (BvR)
17050 4XZ: IN Haifa 1638 CW vvv de 4xz. (BvR)
4XZ: Haifa Radio Israel CW w/ ID marker..(PT)
17976 FLIGHT 11 UTC? USB wkg Incirlik. Heard the exact same callsign when on vacation at Cyprus on Nicosia ATC 124.200 Does anyone knows FLIGHT 11 (US-accent!) (GB)
18393 SAM 677 USB wkg Andrews VIP w/signal chks & pps. Previously they checked 14863.0 out of: Salinas, McDill, Lajes, McClellan, & the NCS at Andrews at about 1653z. (JJ)
19002 SAM 201 wkg Andrews on F-943 w/ signal chks and pps. Also heard on: 18393.0, 15011.0, 13440.0, and 11214.0 around 1931z. (JJ)

=MISC=

115 UNID: 1615 CW carrier and in slow CW: "RPI" and "RBI", Beacon?, also

other beacons? on QRG, LORAN ?? (ANDL)
398 PEO, UNID Beacon: 0203 CW id (ANDL)
400.5 COD, Beacon Codogno, I: 0202 CW id (ANDL)
404 BMR, Beacon Baia Mare, ROU: 0200 CW id)
404 DA, Beacon Torp/Dalen, NOR: 0200 CW id (ANDL)
405 AV, UNID Beacon: 0158 CW id (ANDL)
406 BG, UNID Beacon: 0156 CW id (ANDL)
406 BOT, Beacon Bottrup, D: 0157 CW id (ANDL)
409 SG, UNID Beacon: 0155 CW id (ANDL)
410 RF, Beacon Erfurt, D: 0152 CW id (ANDL)
414 SLB, UNID Beacon: 0153 CW id (ANDL)
415 OL, Beacon Linkoeping/Saab, SWE: 0149 CW id (ANDL)
415 POZ, UNID Beacon: 0151 CW id (ANDL)
418 INN, Beacon Innsbruck, AUT: 0206 CW id (ANDL)
419 GRE, UNID Beacon, D: 0144 CW id (ANDL)
425 ORU, Beacon Orust, SWE: 0146 CW id (ANDL)
426 MIK, Beacon MIKE/Ingolstadt, D: 0149 CW id (ANDL)
426 GBG, Beacon Gleichenberg, AUT: 0209 CW id (ANDL)
429 ERT, UNID Beacon: 0141 CW id (ANDL)
429 LOS, Beacon Losinj, HRV: 0210 CW id (ANDL)
434 UNID - Beacon SK: 1145 CW id (ANDL)
440 PIA, Beacon Piacenza/St.Damiano, I: 0126 CW id (ANDL)
450 PDV, Beacon Plovdiv, BUL: 0135 CW id (ANDL)
450 OKX, UNID Beacon: 0212 CW id (ANDL)
452 ANS, Beacon Ansbach, D: 0212 CW id (ANDL)
453 CN, UNID Beacon: 0133 CW id (ANDL)
468 FTZ, Beacon Fritzlar, D: 0130 CW id (ANDL)
471 UZ, UNID Beacon: 0131 CW id (ANDL)
473 FHA, Beacon Friedrichshafen, D: 0215 CW id (ANDL)
474 FHE, UNID Beacon: 0127 CW id (ANDL)
475 RZE, UNID Beacon: 0129 CW id (ANDL)
480 VIB, Beacon Viterbo, I: 0124 CW id (ANDL)
482 SWH, Beacon Schwaebisch-Hall, D: 0123 CW id (ANDL)
484 IA, UNID Beacon: 0122 CW id, maybe a bad given II (ANDL)
487 FXE, UNID Beacon: 0119 CW id (ANDL)
488 ILM: Beacon Illesheim, D: 0118 CW id (ANDL)
490 KO: Beacon Koshan, UKR: 0117 CW id (ANDL)
490 WAK: Beacon Vakarel, BUL: 0115 CW id (ANDL)
496 UNID - Beacon PA: 0103 CW id (ANDL)
512 CLJ: Beacon Cluj/Napoca, ROU: 1740 CW id (ANDL)
517 JBR: Beacon Jaszbereny, HNG: 0107 CW id (ANDL)
2270 MOSSAD 2011 USB JSR broadcast. (HS)
2287 Unid: 2324 CW Endless 5LG's. No ID. (AB)
2379 Unid '98' 2245 CW Msgs like 98 12744 13111 11111 //3153 kHz (AB)
2743 Mossad,ISR 2300 USB Broadcast to ULX (AB)
MOSSAD 1933 USB ULX broadcast. (HS)
2844 Mossad,ISR 2300 USB Broadcast to YHF (AB)
2852.5 ZNDW - UNID: 0003 CW clg P2IV, 2 minutes 5LG's, then cont. slow CW: P2IV without id (ANDL)
2953 Mossad, ISR: 2318 USB vmf EE: MIW2 (ANDL)
3067 GOFR, UNID: 2310 CW clg UNID, xxDQ DE GOFR GOFR QTC 5251 0110 = 0536 KZQ =, then 5 ltr grps. 0110 could be time in CET, end of msg: =GOFR K, than sx cfm-tfc, rpt req., using: RPT GR 2/etc. (ANDL)
3087.2 L - Beacon?, RUS?: 0025 CW id: L, vy bad modulation (ANDL)
3090 E-10: ENIGMA Group classification 1715 AM YL/EE clg KPA2. (CK) (Mossad/Israeli Intel -LOGS)
3150 Mossad,ISR 2303 USB Broadcast to PCD (AB)
Mossad, ISR -?: 2300 USB vmf: PCD, 2303z "Two Messages (2x), Message (2x), 236 236, text (2x) ODGA LERDN ....", 5LG's, sub-header: "655 655, Text (2x)", next transmission start 2330z w/ PCD-mkr, 2333z: Message (2x) Group-43 (2x), Text (2x), 5 ltr grps. Hrd agn nxt day at 2307z (ANDL) E-10: ENIGMA Group classification 1700 AM YL/EE clg PCD1. (CK) (Mossad/Israeli Intel -LOGS)
3153 Unid '98' 2344 CW Msgs like 98 04742 11111 11111 //2379 kHz (AB)
3175 V - Beacon?, RUS: 2305 CW id: V (ANDL)
3195 R - Beacon?, RUS: 2045/0020z CW id: R, hrd over weeks (ANDL) (Russian Navy Ustinov on 3196? -LOGS)
3211 ROQN - UNID: 2354 CW clg ERST bad handkeyed (ANDL)

3270 Mossad,ISR 2305 USB Broadcast to KPA (AB)
3314 HEP3, INTERPOL Zurich, SUI: 2045/0015z CW v-mkr (ANDL)
3322 R - Beacon ?, RUS: 0015 CW id: R (ANDL)
3417 MOSSAD 1904 USB ART broadcast. (HS)
3470 SP789, UNID: 2244 CW mkr: CQ CQ DE SP789 CQ CQ DE SP789 K (ANDL)
3495 Mossad, ISR: 2015 USB vmf: MIW2, 2345z vmf EE "VLB2" (ANDL)
3666 UNID: 1305 CW cont. slow: VZ8P (ANDL)
3818 UNID: 2015 LSB sx SS, 2 OMs, "cambio-styl", ment.: Gijon/etc., sounded not like fishermen, but pirates ? (ANDL)
3840 UNID spy?: 1835 USB f 5LG's. (ANDL) (Mossad -LOGS)
MOSSAD 1906 USB YHF broadcast. (HS)
3859.5 N38D, UNID: 1940 CW w/ QEPL DE N38D K, QLX, QTA, later clg 8IAO, see 6714 (ANDL)
3866 UNID: 1905 CW LBDO LDBO LDBO QTC and numbers, later 5LG's, "RPT AGN" (ANDL)
3880 UNID: 2025 LSB sx SS, OMs, "cambio", ment.: Barcelona, pronounce A as Aaaaaaaaa.../O as Ooooooo, not same OPs as 3818 kHz, Pirate? (ANDL)
3932 UNID net: 1730 CW ID7N DE ODO3, 5FG's (0=0) after = 722 ID7N = given by machine, end with = ODO3, later simplex confirmation tfc., mni stns 1738z wkg OOZN, repeat-req./tfc, using abbreviations like RPT/K/etc., msg/msg-parts called e.g. GR 23 (group) 1840z R54J w/ R8O2 DE R54J QTC 732030204 510 R8O2 =, than msgs, 5ltr or 5fig grps, no mix between fig/ltr, QRT with: R 73 K, or only: 73, 1840z CW 5 ltr grps by machine, simplex QSL-tfc. Often hrd around this times. PSE INFOS ! (ANDL)
4031 P - Beacon ?, RUS: CW 1820 id (ANDL)
4035 UNID net: 1840 USB sx GG/Swiss-? & South german-GG, OP-Names: Charly, Frank & Axel, chats abt HAM-equip./techniques (2m/70cm/HF)/ HAM-magazines: CQ-DL, FUNKAMATEUR (both fm DL) and Old-Man (fm SUI), QSY to "the 580", pirates? See WUN-Misc-Logs 7/96 (ANDL)
4040 UNID: 1833 USB RR m vmm, cont.: "????? 1,2,3,4,5,6,7,8,9,10", fm a tape (ANDL)
4134 L: RUSNAV St Petersburg 1355 CW SLHFM. (CK)
4142 UNID: 1845 USB GG m sx, OP Jochen/austrian accent, chat abt radio techniques, using HAM abbreviations like QRT/QRV/Vox/73, etc., no ships, sked on Freq.: 44, chat-pirates ? (ANDL)
4158 Unid 0130 USB w/following repeated for over an hour "a fiery horse, with a speed of light, a cloud of dust & a hearty high ho silver....the lone ranger". (HF) (your right...odd one of the summer! -LOGS)
4195 Swedish Rhapsody 1830 USB 5N groups in German (AB)
4270 Mossad,ISR 1900 USB Broadcast to PCD (AB)
MOSSAD 2007 USB PCD broadcast. (HS)
4463 Mossad,ISR 1902 USB Broadcast to FTJ (AB)
4478 6FR: Unid 0055 CW with continuous ID. (JDS)
4558 C: Channelmarker 'C', Moscow 2029 CW (PB)
4625 Unid 'buzzer',RUS 1909 (AB)
4665 MOSSAD 2001 USB VLB broadcast. (HS)
4668 Unid: 1340 USB lots of Japanese tfc. (AB2)
4740 M-17: ENIGMA Group classification 1940 MCW rapid dots 23 5F grps. (CK) (Ready, Ready numbers station -LOGS)
5091 MOSSAD 1936 USB JSR broadcast. (HS)
5211 BRANDY: 1640 USB w/ H171635 msg for WGY906 FEMA Denton TX. Ann freqs 5211 and 10493. (JM) BRANDY 1633 wkg WGY 910? passing traffic: H181635, then calls WGY 918 with no joy. BRANDY 1640 wkg WGY912 trying to reach WGY 918. 912 sez to QSY 13446. (MJ)
5230 MOSSAD 1947 USB CIO broadcast. (HS)
5277 PANTHER: DEA, Nassau, Bahamas 0212 USB wkg 33C who advises is landing at homeplate on DEA "Alpha". (RB)
5301 OLX: MOI Prague,CZE 1659 USB id 288 at 17.00 UTC and 863 at 18.00 UTC. ID in CW (AB)
5329 Unid 0800 CW No ID. Msgs like BT nr69 S 26 10:07:18 1996 BT + 5L gr. Signal faded out rapidly. From S4 to S0 in only 14 mins (AB)
5362 4IK: Unid 1458 USB calling OCB and R4P. (CK)
5363 MPP4: Unid 0432 CW wkg GOLW, xchg ZYG, ZAM, QSA and other code groups. (CK)
5425 UNID: 1929 CW 5 ltr grps, msg-header, e.g.: BT NR 23 O 09 21:29:02 1996 BT, 09 means Date (9.Oct), 21:29:02 is CET Summer-Time, the

second comes exactly in this second ! see 6974.5 kHz (ANDL)
5430 Goroka PNG 0840 USB Phone net.lots of tfc,singing ect. (AW)
5437 MOSSAD 1907 USB ART broadcast. (HS)
5469.9 VL8IPS: Darwin, AUS 1653 CW w/ID, 4 min transmission every 20 mins after LNA2. (JD2)
5471.2 LN2A: Norwegian PTT, Sveio 2016 CW, "ln2a" marker plus mixed FSK signals (MC)
5732 U.S. Customs: 0219 USB Enciphered comms common to Customs Service. UNID: 0255 USB UI male in the clear. Too weak to copy content. UNID: 0310 USB Noted that the SELSCAN pulses about every 10 minutes after the hour. (i.e. 0310z 0320z etc). UNID: 1255 USB Several strong SELSCAN pulses followed by scrambled comms common to Customs. (EA) BUSHWACKER 2211 USB clg 754 in the clear on new customs COTHEN net freq "Ground Troops will be on ALPHA-2" (165.2375 for you VHF scanner listeners). BUSHWACKER 2213 USB wkg "342" "ALPHA-2 will be air to ground freq" BUSHWACKER then asked 342 if he has contact w/549, 342 adv affirm. "34 KILO" 2237 USB wkg BUSHWACKER "549 in RTB, We will stay overhead" BUSHWACKER responded "You will need to refuel and get back up ASAP in-case he decides to land" "return to scan". "34 KILO" 2253 USB wkg BUSHWACKER, "We are talking to ALPHA-1107 (Customs Agent) and he did not off-load anything in Memphis. They may get airborne again and off-load the contraband at another location". OMAHA 34-KILO 2305 USB clg BUSHWACKER "69 Alpha is airborne". OMAHA-34 KILO 2323 USB wkg BUSHWACKER ref "Airborne near West Virginia heading 050. Have you gotten hold of 69A and scrambled them yet? Have then meet us on 385.45 UHF and normal working freqs". BUSHWACKER 2345 USB wkg OMAHA 34-Kilo with Instructions "Jacksonville has a jet heading in that direction. Hopefully 69-Alpha will get launched to get in the chase by the time you need to stop a re-fuel. You can surveillance the target unitl then." 34-KILO adv BUSHWACKER that he had enough fuel and would land with the suspect a/c if he landed, but BUSHWACKER adv "Stand by & monitor the a/c unitl 69-Alpha gets on station. When he gets on station, land and re-fuel and then get right back up so you can perform air support incase the a/c lands. DO NOT LAND behind the aircraft. 16 Quebec is on the way out of Jacksonville, you can then turn the eyeball over to him when he gets there". HAMMER, Western C3I center 0015 USB clg OMAHA-54 no contact. BUSHWACKER 0017 USB wkg OMAHA-34 KILO "target at 2000 feet". CUSTOMS SERVICE CENTER - new C3I central located in Oklahoma City? 0031 USB clg OMAHA 69-ALPHA. (LCB)
5740 UNID: 1425 USB Two SS males engaged in heated conversation. One kept telling the other to slow down (possibly not a native speaker). Then said go to channel 7. ???? From the content, don't think they were "fishing". (EA)
5820 'English Man' numbers station 2100 USB Id 274. 5FG's. Ends w/'00000' (AB)
5841 35 CHARLIE 1858 USB confirming transportation w/PANTHER. 12 TANGO 1826 USB passing posn report to PANTHER (MF2)
5916 Unid: 0320 CW 5FG's, each number 2X; who is this? (BDS)
6390 R - Beacon ?, RUS: CW 1545 id (ANDL)
6485 UNID number stn: 1733 USB EE f 5fg's, each grp 2 times (ANDL)
6566 UNID: 1635 CW marker: VVV CQ 773.69T, 1635z 5fg's (T=0) (ANDL)
6823.5 UNID: 1515 CW handkeyed, s/off with BK FB NW GB 73/88 PUPLASKII (ANDL)
6840 UNID SPY? stn: 1735 USB f 5 ltr grps (ANDL)
6840 MOSSAD 2003 USB JSR broadcast. (HS)
6841 OLZ88: MFA Praha , CZE, 13:20, new PSK mode + CW chat in Czech.(ANEU)
6845 UNID: 1643z USB 6 tone mm, see July-WUN on 6848.0 kHz (ANDL)
6860 2HK, UNID: 0935 USB sx m Polish "Dwoieka Henryk Karol" (2HK) w/ "Ignazio Marian Xaver" (ANDL)
6871 HEP7, INTERPOL Zurich, SUI: 1520 CW v-mkr: VVV DE HEP7 + (ANDL)
6904 UNID: 1503 USB m sx EE scottish/irish accent, using hard language, pirates/fishermen? (ANDL)
6925.6 UNID: 1520 USB m sx UNID-language (asiatic?) (ANDL)
6960 P8K 1700 CW VVV VVV VVV DE P8K P8K P8K NR-44 then 5L groups. Also at 1900 on two different days. (CK)
6974.5 UNID: 1716 CW 5 ltr grps, header: "BT NR 63 A 22 19:16:53 1996 BT", next: "BT NR 64 A 22 19:23:05 1996 BT", time is CET, 22 means date,

see 5425 kHz (ANDL)
6985 UNID: 1509 USB m SS, ment: Cantabria, Biskaya, Finistere, sounds like wind/wx reports fr coastal areas in North Spain/each 2 times: repeato, end with: Buenos Tardes a todos (=hello to all), 1515z sx cambio-QSO, mni stns, no IDs (ANDL)
7039 C: Channelmarker 'C', Moscow 1630 CW (PB)
S: Channelmarker 'S', Arkhangelsk 1632 CW (PB)
7485 Unid numbers: 1330 USB 5FG. (SZ)
7700 KRF265: DOE, Belton, MO 1604 USB wkg an unid station in the clear before returning to digital. (JM)
7777.6 Unid Pacific Island 0730 USB Phone net. (AW)
7836 Counting Station 0100 AM // 9958 AM. 9958 used to be the parallel frequency with 6840 when TCS did "control" broadcasts some time back. (JM4)
7869.9 VL8IPS: Darwin, AUS 1657 CW w/ID, 4 min transmission every 20 mins after LNA2. (JD2)
7900 Unid Japanese stn 0733 USB pp in JJ. (AW)
7910 Unid numbers station 0600 USB YL repeating "915" then "zero zero zero" (no traffic for 915 I guess). (RB)
7918 MOSSAD 1735 USB YHF broadcast. (HS)
7944 Unid: 1953 CW Slow spacing between highspeed characters (figures) k - repetition of "zca zob". (DW)
8026 Unid Filipino stn 1005 USB Phone net. (AW)
8065 9M: Unid CW VVV then 9M followed by numbers (various) & slashes.The numbers after "9M" changed each time I think. (SZ)
8066 Unid numbers 1121 CW 5LG using ANDUWRIGMT for cut nmbrs 1-0. Ends 1124 w "ar ar ar as as as." (RM)
8070 CIA counting stn 1100 USB usual 3+2 numbers groups. (AW)
Unid: 1120 AM numbers sta 3ng/2ng stronger on the usb side of carrier, count 158 569 32 239 49 ... (RT2)
8104 3XLZ, UNID: 1844 CW clg W5SL, PEAQ (ANDL)
8117 BMB: Taipei Meteo 1535 CW w/5 fig gps (TD2)
8125 Unid Filipino stn 1025 USB Long coded traffic. (AW)
8195 Unid Filipino stn 1058 USB long list on ch 801. (AW)
8495 C: Beacon Moscow 1757 CW cont c c c c. (BvR)
8641 MOSSAD 1946 USB SYN broadcast. (HS)
8912 RAZORBACK 0512 USB wkg JT4 to adv he is tracking target heading south. (HF) (U.S. Customs -LOGS) (Presumed) USCG "green" (analog type) comms. 1955 USB. (JJ) SUNSHINE, MIAMI Air Branch 2154 USB clg SEABREAZE-287 in the clear "Did you copy what I mentioned about the air assets?" He then went scrambled, then in the clear again "Two additional Coast Guard A/C for you this evening, one after midnight. Could you relay this information to the cutter? Key West has apparently lost contact with them". BUSHWACKER 2158 USB clg "754" on high fox, then made contact "Can't contact him, you might try him on the FM". CUSTOMS SERVICE CENTER, new C3I central located in Oklahoma City? 2326 USB clg OMAHA-34 Kilo "Can you maintain communications w/BUSHWACKER ?? Do you need us to relay anything to BUSHWACKER?". OMAHA-320 1726 USB wkg HAMMER (US Customs C3I west) ref "Target Squawking 02, going to Albuquerque. ETA to homeplate 1210 local "SERVICE CENTER then came up on freq advising "CS-3 is down for a while". (LCB)
8915 Unid Asian stn 0903 USB. pp in Aero band. (AW)
9130 MOSSAD 2006 USB EZI broadcast. (HS)
9251 MI6 Lincolnshire Poacher 1930 USB numbers. (HS)
9402 MOSSAD 1740 USB YHF broadcast. (HS)
9996 RWM: TS Moscow (RUS): 1408 CW v/cq-mkr, TS (ANDL)
10000 BPM: TS .... (CHN) 1430 CW/USB ID/vmf TS (ANDL)
10010 UNID: 1655 USB m sx AA (ANDL)
10050 UNID: 1230 CW cont. "186/TT" (ANDL)
10060.5 REA4, UNID: 1440 CW 5 fig grps (0=T), // 10082.5, til 1445z, b4 & after CW a quick cont. brit-brit-brit (RTTY? sig/beacon/idle?), daily start at 1440 fr up to 5 min. long msg tx, s/on 1440z w/ "REA4 REA4 ....". 1540z 5 fig grps, QRT 1544/1743z w/ "= REA4 K" seems like a sked h+40 ? (ANDL)
10082.5 UNID: see 10060.5 and 14270 kHz (ANDL)
10125 Mossad, ISR: 0145 EE "CIO2"-mkr, QRT 0150z without MSG or notice. (ANDL)

10210 Unid Spanish stn 0710 USB pp in SS. (AW)
10215 Unid: 0010 AM 5 NG in SS1 yl (RT2)
10242 ALE pulses strong (20db over S-9) and regular 2100 USB. (JJ)
10406.9 VL8IPS: Darwin, AUS 1701 CW w/ID, 4 min transmission every 20 mins after LNA2. (JD2)
10493 WGY912: FEMA Berryville VA 1733 USB wkg WGY918 FEMA Denver CO established comms and moved to 14776 kHz (USB) for relay tfc. Msg to WGY913 was H171735. (JM)
10662 Unid Pacific Island 0755 USB Phone net. (AW)
11545 MI6 Lincolnshire Poacher 2010 USB numbers. (HS)
11566 Mossad 1435 AM 5Lgs to EZI (PB)
12197 CIA Counting station, D?, 13:30, USB, 5 FGs. (ANEU)
13446 WGY 918 1641 wkg PORTABLE? (No sign of BRANDY). WGY906 1700 wkg WGY 912. (MJ)
13458 ALE pulses. 2145 USB (JJ)
13506 Unid: 0917 CW, repeatedly calling UXW (MC)
13528 SLHFB [C] 1320 CW Single letter [C] HF beacon. Moscow. (DW)
C: Channelmarker "C", Moscow 0837 CW (PB)
13535 EZI2: mossad station AM UTC? h+15 broadcast (EZI2-central Euro station) (ANEE)
13564 Unid: 0630 LSB bnd #s 3+1 format nil tfc indic til 0645 (ANEE)
13907 PINGPONG 47 2346 USB wkg PINGPONG to advise that 47 is RTB because of equipment problems. (JJ) Scrambled comms on this Customs COTHEN channel 2038 USB, these comms were hopping around the COTHEN net at random intervals.(MF2)
14270 REA4, UNID: vy often/1135 CW idle, 1140z 5fg's, T=0, 1145z end w/: REA4 K, hrd before on 10082.5//10060.5 kHz, sked fr tfc h+40 (ANDL)
14284 RGT77, ???, Moscow, RUS: 0920 CW tfc, partly coded, ment: nucleotid (ANDL)
14295 WA3NAN: Goddard Space Flight center 1615 USB WA3NAN rebcst'ing air/ground shuttle comms. I couldn't stay but appeared as WA3NAN was signing. (CM)
14404.9 VL8IPS: Darwin, AUS 0805 CW w/ID, 4 min transmission every 20 mins after LNA2. (JD2)
14487 MI6 Lincolnshire Poacher 1036 USB numbers. (HS)
14750 unid Mossad 0845 AM rpts "CIO2" (PB)
14977 OLX: MOI Prague 1123 USB 5Fgs in Czech (PB)
15682 MI6 Lincolnshire Poacher 1807 USB numbers. (HS)
16084 MI6 Lincolnshire Poacher 1035 USB numbers. (HS)
18594 RAIDER BASE 2313 USB wkg RAIDER-16 ref "burned out stabilator" and "Infrared Lights", "23 nm southwest...", US Custom comms. (LCB)
COTTON 203 1854 USB calling SERVICE CENTER (MF2)
23214 PING PONG 2059 USB passing message to 248 (MF2)

This months contributors:
(AB) Ary Boender, Spykenisse, The Netherlands: FRG7700, FRG9600, Plessey PR2250 Wavecom 4010, Hoka Code 3, JV-FAX
(AB2) Art Blair, Orangevale, Ca, USA (by mail): NRD-515, M-7000
(AM) Alfie McAfee, UK
(ANDL)Anonymous, Germany
(ANEE)Anonymous, Eastern Europe
(ANEU)Anonymous, Europe too
(ANN) Anonymous
(ANUK)Anonymous, In UK
(AW) Alex Wellner, Sydney, Australia: Kenwood R5000
(AW2) Allen Watkin, Australia
(BC) Bob Colyard, Brick, NJ, USA: R2000
(BDS) Brent D. Saylor, Pa, USA: Icom R-70, AEA CP-1 TU
(BH) Bart Hoekstra, Leeuwarden, The Netherlands: Lowe HF-225
(BvR) Bert van Rij, Naaldwijk, The Netherlands
(CH) Carl Hender, Suffolk, UK: IC R72, JVFAX, HAMCOMM
(CK) Costas Krallis, Athens, Greece: Yaesu 7700
(CM) Craig MacKinnon, Halifax, NS, Canada: Yaesu FRG-7
(DW) Day Watson, Clevedon, UK: NRD535, Racal RA1792, Code 30 v.2, JVFAX
(DW2) David Wright, San Angelo, Tx, USA: DX390, Grundig YB400, Univ.M-1200
(EA) Ed Ashcraft, Oahu, Hi, USA
(EC) Elvin Chou, St Petersburg, Fl, USA
(ED) Ed Deasy, Charrlottville, Va, USA: NRD535, Hoka Code 30, M7000

(ES) Eric Sillick, Toronto, On, CAN: Hoka Code 3 Gold
(FH) Fred Hetherington, Ormond Beach, Fl, USA: M-7000 (by mail)
(GB) Gerald Bos, Netherlands
(GD3) Gerbrand Diebels, Helmind, Netherlands
(HF) Harry Ferguson, Philadelphia, Pa, USA (via mail)
(HOOD)Robin Hood, UK (by mail)
(HS) Henk Stelte, Utrecht, Holland
(HW) Hans Wildschut, Zutphen, the Netherlands: Lowe HF225 with 12m wire
(IB) Ian Baxter, Blackburn, England: NRD525
(JD2) John Doe, London, England (by mail)
(JD3) Johan Drost, The Netherlands
(JDS) J.D. Stephens, Memphis, Tn, USA: Drake R-8
(JH) Jeff Haverlah, Houston, Tx, USA: R5000/R7/FROG7/RFB65
(JJ) Jeff Jones, Ca, USA
(JJ2) Jan Janssen, The Netherlands
(JM) Jack Metcalfe, Danville, Ky, USA: Drake R-8, AEA DSP-1232
(JM4) John Maky, Yuma, AZ, USA
(JP) Jim Pogue, Memphis, Tn, USA: R2000
(JS) Jonathian Smith, London, England
(JSM) Steve McDonald, Port Coquitlam, BC, Canada: R71A, M6000
(JW) John Ward, St Petersburg, Fl, USA
(KB) Klaus Betke, Northern Germany: Icom R72 & homemade RTTY/FAX decoder
(KW2) Ken Windyka, Springfield, MA, USA: Sony ICF2010, Yaesu FRG100
(LB3) Lee Banter
(LC) Les Crossan, Walls End, UK: Lowe HF150, WeFax for Windows
(LCB) Linsay C. Blanton, Irving, Tx, USA: Icom R-71A, Sony ICF2010, Hamcom
(LL) Lars Lindh, Southern Sweden: HF-225
(MB3) Markus Buttinger, Salzburg, Austria: Panosonic RF-B45
(MC) Mike Chace, Bath, UK: Hoka Code 30
(MF2) Mike Fink, S. Florida, USA: Drake SW8
(MG) Michael Graham, New Albany, Ms, USA: AOR AR3030
(MJ) Mike Jacobs, Allentown, Pa, USA: R5000
(MK) Mark Kirker, NY, USA: Sanagean 803
(ML2) Murray Lehman, Perth, Australia: Icom R-71E, R9000, M7000v7, M8000v5
(MR2) Michiel Rivkin, Pamona, NY, USA: JRC NRD535D, Hoka Code 3
(MS4) Mohammad Sultan, Port Louis, Mauritius: NRD535D, Universal M-1000
(MWS) Michael W. Scheel, E. Iowa, USA: IC-720A
(PB) Piet Bongers, the Netherlands: FRG100
(PS) Paul Scalzo, Montreal, PQ, Canada: R2000, M7000 v.7
(PS3) Phillip Scott, TS-870
(PT) Peter Thompson, Crewe, Cheshire, UK: Lowe HF225/Universal M-7000
(RA) Rick Albright, Merced Ca, USA: Sony 2010, Realistic DX-440
(RB) Rick "RD" Baker, Austintown, Ohio, USA: Icom R71A, Icom R72, M-1000, Hoka Code 3
(RD3) Rob Davies, Northwich, Cheshire, UK: NRD535
(RH2) Robert Hall, Cape Town, S. Africa: Icom R-71E, M7000 V.6.03
(RK) Ralf D. Kloth, Germany: Yaesu FT757GX, Sony ICF2001D, Wavecom W4010
(RM) Robert Margolis, Lake Forest, IL, USA
(RRR) Ralf R. Rademacher, Koeln, Germany
(RT2) Robert Thompson, Kilgore, Tx, USA: R390A, FRG100, R-8, NRD535D, M900/M6000v9 Hoka Code 3
(SZ) Steve Zollo, Adelaide, Australia
(TD2) Tom Davies, Grahamstown, South Africa: R-70, ZSRX vert. ant.
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic

f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS Club ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ WUNNEWS Vol. 2, No.11 November, 1996 ////
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Edited by Richard Baker
WUN Electronic Edition Editor
utelistener@msn.com
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If you have problems in this, or need further information contact Stan Scalsky at: sscalsk@atc.ameritel.net

If you are reading this newsletter from another source, such as a BBS, please let us know!

==========

From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

* A big thanks to all for the Service Award I received at the Grove Communications Expo '96 for "Outstanding Service and Dedication to the Radio Hobby". I especially want to again thank the nice folks at Grove Enterprises and those who sent congratulations. I received the award the other day in the mail and it is a beautiful plaque. None of us become involved in hobby/club work for recognition. However it's nice to see an 'atta boy' like this one! Especially when it's for an admitted die-hard utility station guy. This was the first time I have seen someone in our part of the SWL hobby recognized in such a manner.

* We are going to try and get next months issue out to you around the 20th of December due to the Christmas Holiday.

WHAT'S INSIDE:

o Membership News by Mike Wolfson
o Ask WUN!
o Digital Review by Ary Boender
o The WUN Military Column by Paul Jones
o Nautical News by Day Watson
o New Products, Books, News and Reviews by R.D. Baker
o The QSL Report by Martin Barry
o Utility Round-up by Ary Boender
o World Bandscan by Tim Braun
o The WUN Logs Column by R.D. Baker & TEAM LOGS

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MEMBERSHIP NEWS
Mike Wolfson, Membership Director
mwolfson3@bright.net

Welcome to WUNNEWS and the WUN Membership News for November. I am happy to report that membership in the club continues at healthy levels. The exact figures at the beginning of the month, last month and one year ago are below.

	11/96	10/96	11/95
WUN	664	675	470
WUN-DIGEST	94	89	14
WUNNEWS	202	173	170
Mail	39	43	28
BBS (non e-mail)	158	152	n/a
	1157	1132	682

The number of countries represented has increased by one this month to 36. Countries represented this month in no particular order are: U.S.A., Germany, Canada, Australia, U.K., Netherlands, Sweden, Norway, Portugal, Italy, Japan, Brazil, Switzerland, Ireland, Greece, Spain, Mauritius, Finland, New Zealand, Poland, Austria, France, South Africa, Belgium, Peru, Iceland, Denmark and Singapore. One new country, Indonesia, is represented for the first time.

I have not received many responses lately for the membership database so the trends reported over the last 6 months have not changed. I mention that because the editors of WUNNNEWS are planning an anniversary issue for our second birthday and I need your input for my column for that issue. If you are not in the database and want to be included, please send the answers to the following questions to me.

E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested. If you're sending me a revision please indicate that in your e-mail. I hope you are able to do some good listening. Mike

==========

INTERNATIONAL CIVIL AERO
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Fidonet: 1:250/930

No column this month due to poor Tony having a hard drive crash.

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ASK WUN
Mark Schoonover - KA6WKE, editor
e-mail: schoon@cts.com
Snail: 9802 Medina Drive, Santee, CA 92071
117.0095W 32.8527N

.- ... -.- .-- ..- -. .- ... -.- .-- ..- -. .- ... -.- .-- ..- -.

Welcome!

Well, I did it.... I went ahead and volunteered to edit the Ask WUN column. I'm relatively new to the UTE world, and I find myself reading and surfing the net for any information I can find on the hobby. I've been an amateur radio operator for 14 years, but I must admit, the UTE hobby is where I've been spending the vast majority of my time over the last year. So, I decided to share what I'm finding with others on the WUN list. Many thanks go out to RD Baker and Ary Boender for the opportunity.

<<PC Generated RFI>>

The first topic that has many UTE hobbyists pulling their hair out including my own, is computer noise. I had to do extensive work in identifying and eliminating RFI generated from my PC. Nino Porcino sent some information regarding the ARRL (Amateur Radio Relay League) infoserver:

From: Nino Porcino <m.caruso@netline.totobit.it>
Subject: Computer RFI

In the ARRL infoserver is present the file:

COMPRFI.TXT 32k 950411 Tips to fix computer RFI

just send a mail to info@ARRL.org with:

SEND COMPRFI.TXT in the body text. In few minutes you'll receive the file in your mailbox.

I hope it can help you,

73 de Nino

Thanks Nino! I haven't had a chance to view this file. Some of the things I did to eliminate PC generated noise included sanding the paint between the two halves of my computer case, grounding the monitor using the jack post where the cable attaches to the back of the monitor, to the case of the PC using a good quality grounding braid. I also needed to install an alternative ground, since I live in a semi-concrete jungle, I can't install an 8 foot ground rod easily. After some thought, I found two additional grounds within my residence. One is through the cable TV system and the other through the phone system. I'm sure I'll get some feedback on this, but the caveat is that I don't transmit HF through this system. It's only used for reception. After settling on using the phone ground, I hooked one piece of equipment at a time and then tested the phone. After getting everything attached, my normal S9+10db noise level dropped to an S3. I removed the rest of the noise using the JPS ANC-4 noise reduction unit. Hope this information can help others!

<<For Sale/Wanted>>

Robert Bennett sends a message looking for some equipment to finish his project:

From: "Robert P. Bennett" <rbennett@huntel.com>
Subject: HF Gear Wanted]
Robert Bennett, 5675 Shadow Hills RD, Las Cruces, NM 88012, USA.
Telephone (505) 382-0148.

I am in need of the following items of equipment to complete restoration of a military TSC-26 HF Radio Station: CV-1716 frequency converter, RP-149 audio tape reproducer and RD-265 high speed audio recorder.
If anyone in WUN has any of the above items and are willing to sell or trade, please drop me an email at rbennett@huntel.com -Robert-

Robert, questions like this are perfect for the Ask WUN column! If there are any military buffs that can assist, please help.

<<Hobby Tips>>

Allan Rosewarne sends in an excellent tip on searching USENET and publicly accessible mailing lists using only an e-mail account: "I only have access to an E-mail account through my company. Therefore reference to USENET is very restricted. I have found a service, In-Reference Inc., which will search recent USENET archive based on find parameters and filters. I discovered this, through my local library, which has WEB access on in-house terminals, at http://www.reference.com. If one wants to try this out and you have E-mail only, E-mail to <user-manual@reference.com, with 'help' in the message body, and you will receive back an eight page user manual for how to have search enquiries E-mailed back to you. Besides USENET they archive "select publicly-accessible e-mail lists", also."

Thanks Allan! It's good to see search tools being designed for users with restricted access to the 'net.

<<Scanning, Satellites, Equipment, Etc>>

Steve Fisher (rsfisher@zoomnet.net) Ohio USA wrote: "I am considering buying an AOR AR8000 handheld scanner sometime in the not too distant future. I have been told this is the top of the line in hand held scanners. I am wundering, though, how good is it in the HF range?"

Steve, I don't have any direct experience with the AR8000. Just off the cuff, I think the AR8000 wouldn't perform like a desktop radio. Before I would purchase any radio, I would determine what your needs are. As an example, I spend the vast majority of my monitoring in the maritime bands. My main radio is a Kenwood R1000 using a PK232MBX decoder. This handles everything I need to do just fine. I would think that the AR8000 would do fine for light duty monitoring, or SWBC listening, especially while on travel. Also, having the V/UHF bands available is also a benefit for the mobile user -- why carry two radios when you can carry one! If any reader uses the AR8000 extensively, please let us know! Either send a message to Ask WUN or Steve directly. For extensive technical or overall all AR8000 information, check out these web sites:

http://www.cpl.uiuc.edu/~tpeckish/appendix.html
http://www.crl.com/~vhealey/ar8000.homepage.html

<<From Previous Ask WUN Columns>>

In previous Ask WUN columns, there has been some interest in monitoring satellites. While surfing the web, I found a site that has everything you'll ever need to know, and also afraid to ask -- from frequency lists to details of various satellite launches. Point your web browser to:

http://www.newspace.com/

<<In Closing>>

This brings us to another end of the Ask WUN column. As usual, if you have any questions that you feel don't fit within the charter of the WUN mailing list, please send them this way! You'll never be flamed within the Ask WUN column. If you respond to any of the messages within Ask WUN, please forward a copy to me at: schoon@cts.com

See you next month and happy monitoring!
Mark -- KA6WKE

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DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Thanks to contributors Lennart Deimert, Day Watson, Mike Chace, Murray Lehman, Bob Margolis, Fabrizio Magrone, Bert van Rij, Keith Haywood and the anonymous WUN family, I could easily fill the Digital Review this month.

Everyone's help is always much appreciated, so feel free to drop me a line, or even better, drop me a whole bunch of info that you wanna share.

Diplo Corner

Before we start with this month's profile, a few short diplo items:
- First the schedule for the next three months:
  December -> India and Angola
  January -> Algeria, Congo and France
  February -> China and Ethiopia
  Should you have any info that you wanna share about diplo stations of these countries, please send them to me. My addresses are in the header. I am especially looking for Chinese sample messages.

- Sweden's new system.
  The new system that is used by the Swedish diplo stations is based on the MIL-188-110A system. Adaptive speed of 75/150/300/600/1200/2400 bps. The new system is bought from Rockwell/Collins and called "Mediaware". SWED-ARQ is also still being used.

- Egypt: perhaps you folks noticed this already. During the callup sequence you can sometimes see what the reply freq is. Here's how it works:

  JG YWSG KDS MDRS HOKDS ODS 57751 57751 57751 57751

  Revert the number, add 1.7 and you have the freq: 15776.7 and yes, the other party came to that freq!

- This month's diplo special: Denmark

o Country profile
  Denmark measures 43,070 sq km. Denmark with capital Copenhagen is a kingdom. The country is divided in 14 counties (amter); Arhus, Bornholm, Frederiksborg, Fyn, Kbenhavn, Nordjylland, Ribe, Ringkbing, Roskilde, Snderjylland, Storstrm, Vejle, Vestsjaelland, Viborg and 1 city (stad) Staden Kjobenhavn. The Faroe Islands and Greenland are self-governing part of the kingdom. The defense forces include the Royal Danish Army, Royal Danish Navy, Royal Danish Air Force and the Home Guard.

o Notes on operation:
  - Language: Danish
  - Single freq ops. Occasional dual freq ops.
  - On-line encryption similar to that used by the Swedish and Norwegian diplo, leads-in with:

```
rtlx nr. 63 af 13.4.96
::::::::
ssswwwssswww
y
[crypto text]
```

    Ending is abrupt ie no "nnnn" or "zzzz" type string.
    The "ssswwwssswww" in particular means that Copenhagen is often mistaken for MFA Oslo.
  - Very little addressee information in messages. Embassies are called up strictly by selcal mechanism. Operator chatter is often the only clue to the recipient.
  - Freqs usually end on .9

o Transmission modes:
  TWINPLEX 100bd N F7B-1 -400/-200/+200/+400. Word interleave. Erect.
  SITOR-A 100bd N 400Hz
  SSB

o Frequencies:

7313.9	7467.9	7468.9	9274.9	9327.9	11327.9	11341.9	11419.9
11437.9	13211.9	13273.9	13457.9	13486.9	13489.9	13497.9	16128.9
16209.9	16284.9	16309.9	16399.9	16406.9	18513.9	18576.9	18583.9
18586.9	18588.5	18593.9	18756.9	19018.9	19024.9	19106.9	19108.9
19230.9	19621.9	23180.9					

o Callsigns and reported selcals for MFA and embassies:

OZU25	TPRX/TPOY	MFA Copenhagen
OZU30		Cairo
OZU31		Beirut
OZU32	TPEC	Dar es Salaam
OZU33		Tel Aviv
OZU34		Jeddah
OZU35		Beijing
OZU36		New Delhi
OZU37		Ankara
OZU38	TPEF	Lagos
OZU39		Nairobi
	TPEX	Baghdad
	TPEY	Prague?
	TPIC	Harare
	TPIP	Moscow
	TPIS	Budapest
	TPOK	Rome
	TPOP	Warsaw?
	TPOQ	Teheran
	TPRM	Bucharest
	TPRP	Accra

Unid stations: TPEK, TPEP, TPES, TPIF, TPIK, TPIV, TPIX, TPOC, TPOM, TPOS, TPOV, TPRC, TPRF, TPRS, TPUK

o Dictionary:

udenrigsministeriets	- MFA
nyhedsoversigt	- news review
god weekend til jer alle	- good weekend to you all
et godt forsvar gavner freden	- a good defense benefits peace
Ambasseden	- the embassy
visumsektionen	- visa section
Moskva	- Moscow
Rom	- Rome

o Sample message formats:

Example message #1

Example of on-line encrypted traffic from MFA to Embassy Rome

```
 tpok tpok tpok tpok tpok tpok tpok tpok tpok        [MFA selcals Rome]
 $46                                                 [Rome Connects]
 :::::::::::::                                       [Characteristic lead-in]
 ssswwwssswwwemeljlkckljlkckrwr
 mzagmovnznmgmlaavihqsxnf lutca tjyzsizapytvwaviseyybtanwbexhopidbewqt
 ph whtvvesqgxlsedqempfnt cncpnbotsdlkmoalqofujbdcqx
 <clip clip clip>
 iwgivgbxoqijkz                                     [Abrupt end to crypto]
 pt. intet.
 nnnn +?
```

Example message #2

Example of plaintext message with MFA relaying NATO reports to Danish troops stationed in Bosnia.

```
 n a t o u n c l a s s i f i e d

 r   120925z apr 96   msg id kab586
 fm     chod den
 to   x aig1628
 xmt    sen de off/afnorth
 xmt  = dadefat warszawa
        public information baltap
        cincent
        cincnorthwest
```

```
        comairsouth
        cinceastlant
        comnavsouth
        nordbrig/ifor
        comaircent
        rxfkea/hq landcent (heidelberg ge)
        rgfjbn/international long range reconnaissance school
        nato forces kolsaas, danish support element (fax)
        arrc (fax)
        fort rucker (fax)
        hq cincnorthwest (fax)
        unpredep, skopje macedonia (fax)
        ungci (fax)
        unomig (fax)
        foratt warszawa (fax)
        unmogip (fax)
        unikom (fax)
 info   sen de off geilenkirchen ge

     n a t o u n c l a s s i f i e d

 soveposer. trods den usaedvanlige haarde medfart kunne laegerne paa
 sygehuset i tarm konstatere, at ingen af dem havde paadraget sig
 indre kvaestelser. den ene var sluppet med blaa maerker og et par
 trykkede ribben, men den anden ud over blaa maerker har brud paa
 syvende ribben.

        - - - et godt forsvar gavner freden - - -

 bt
 int dist  ch fst,ch oda,ch ma,ch kt,ch ps,ch p-i,ch lesek,sitrum

 release   time: 082019z feb 96
 retrieval time: 082020z feb 96
 <clip clip clip>
```

Example message #3

Example of news review sent by MFA to embassies

```
 udenrigsministeriets nyhedsoversigt
 mandag den 22. april 1996
 danske skud i bosnien
 omkring 100 danske soldater maatte have hjaelp af to
 amerikanske kamphelikoptere. de danske soldater maatte affyre
 <clip clip clip>
 stf.3/inge estvad

 [MFA selcals next embassy to recieve same message]
 +?
 tpix tpix tpix tpix tpix tpix tpix ~ptpix tpix tpix tpix tpix tpix tpix
 tpix tpix tpix tpix tpix tpix tpix tpix tpix ptbir ix tpt~pix ixtpix tpix
 tpix tpix tp
 $tak saa er den her
 var den ude af scan?
 +? det kmo?
 +?ha paasken varer lidt laengere hos jer
 her faar du saa bare din avis

 udenrigsministeriets nyhedsoversigt
 mandag den 22. april 1996

 <etc etc clip clip clip>
```

Sources: Mike Chace, Day Watson, WUN, CIA World Factbook and my ears and eyes :-)

The RAN/RAF piccolo link

Murray Lehman checks in from Australia with an interesting item about yet another ''catch them while you can'' candidate: the piccolo link between the Royal Australian Navy, Belconnen Canberra (c/s VHC) and the Royal Air Force in Kai Tak Hong Kong (c/s GFH). They occasionally have a circuit using PICCOLO-6 2 channel. As is usual with other stations using this mode, the engineering channel will be idle, apart from infrequent service messages, while the second channel carries encrypted traffic. Limited use is made of the circuit. It is operational, perhaps once or twice a month, for about 24 hours.

VHC to GFH has been logged on:

7990	9280	10865	12065	13450	14368	14435
14455	16170	18315	19235	19965	20465 kHz	

with message format:
0204Z GFH DE VHC RGRG WILL ADVISE MY OPS....ZUJ PLS KKKHA1
0207Z GFH DE VHC PLS TO ZKJ YOUR ASM243 TXER...DOING SAME THIS STA...C U NEXT TIME? KKKHA

After the K's, H means HMAS Harman NAVCOMSTA Belconnen, the next letter indicates the watch on duty; if a number is used it indicates the watch member.

At 0000Z VHC will sent a UTC day change marker:

.....RECORD 13 APRIL '94.....

GFH to VHC has been logged on:

8138	9975	10185	10200	10635	10645	12080
12150	14705	14785	14795	16256	18335	19110
19385	20916	20937 kHz				

with message format:
VHC DE GFH ZUB240412Z FEB RG K
VHC DE GFH ZUB240416Z FEB YES WE R GREEN K

As Hong Kong is to be part of China from 1 July 1997, it will be interesting to see if this link is replaced.

U.S. Coast Guard

The following item originates from the USCG home page and was forwarded and edited by Bob Margolis:

The U.S. government intends to procure approximately 60 error correction terminals with integral AFSK modems for narrow-band direct-printing (NBDP) telegraphy in the medium and high frequency ranges. The government considers these items to be commercial as defined by part 2 of the Federal Acquisition Regulations. Contract award is project for November 1996.

It is contemplated that one unit (if ordered) would be delivered to the CG Yard, Baltimore, MD, within 30 days of contract award. The government would then conduct acceptance testing on this equipment for 30 days. Within 120 days of acceptance of this first unit, the contractor would deliver 60 units to USCG Engineering Logistics Center, Columbia, MD.

Power Supply: equipment shall be powered from the ship's main source of electrical energy (110-120VAC/60Hz).
Physical Dimensions: the equipment shall not exceed the following size - width 18", depth 12", height 5", weight 12 lbs. The equipment shall be 19" rack mountable.

The NBDP system, shall be capable of operating on single-frequency channels and on single- and two-frequency channels. The equipment shall provide for the following categories of communications using both voice and narrowband direct printint (NBDP):
a) distress, urgency and safety;

  b) ship operational requirements; and
  c) public correspondence.

The equipment shall comprise at least:
  a) an integral control unit or more separate control units;
  b) an integral or separate narrowband direct printing facility;
  c) an integral or separate AFSK radio modem.

The Coast Guard will utilize existing shipboard transceivers. Prospective bidders shall illustrate how their equipment will connect to the Sunair AN/URC-116(V).

The NBDP facility shall provide:
  a) means to demodulate and modulate AFSK signals at 100 baud;
  b) means to decode and encode messages;
  c) means necessary for composing and verifying messages to be transmitted;
  d) and means for providing a record of received messages.

New NAVTEX stations

Bert van Rij sent me copies of several messages that he captured from the new navtex services here in Western Europe. All on 518 kHz of course. The first one is Cabo La Nao Radio (EAV id X) in Spain, then RCC Dublin via the facilities of Valentia Radio (id 'W') and finally Niton Radio with a special French broadcast for the French north coast; id 'K'.

o Cabo la Nao Radio
  zczc xa03
  14 0932 utc oct 96
  navarea iii 501
  spain east coastrodaballo 1 light buoy 40-42.5n
  001-13.9e removed and adrift yellow
  colour.espana costa esteboya luminosa rodaballo 1 40-42.5n
  001-13.9e a la deriva color amarillo.nnnn
  nnnn

o MRCC Dublin via Valentia Radio
  suzczc wl07
  routine
  220340 utc oct 96
  valentia radio
  imes dublin 000051
  test message from the navtex management system under
  experimental test at mrcc dublin in the irish marine
  emergency service - imes - headquarters dublin in
  ireland using remote control transmitters based at
  valentia radio.
  nnnn

o Niton Radio
  zczc sa68
  navarea one 525
  navtex. a french navtex broadcast service covering the north coast of
  france will commence for trials on 1 november 1996. broadcasts will be
  made through uk niton coast radio station using b1 character k.
  routine navwarning broadcasts will be made at 0140z 0540z 0940z 1340z
  1740z and 2140z daily.
  nnnn

o Keith Haywood copied the Netherlands Coastguard with NDB/DGPS info:
  Thu Nov 14 1996
  netherlands coastguard
  navigational warning nr44 03:51:30 UTC
  the transmissions of the DGPS-station
  at hook of holland (the netherlands)
  with broadcasting station id 32 will be
  changed from id 32 to id 425, datalink

speed from 100 to 200 baud and the RTCM
messages from version 2.0 to version 2.1
the radiobeacon transmitting frequency
(287.5 KHZ) will remain unchanged
NNNN

Digital Round-up
---

o Who is PFRE???
Unid station PFRE has been copied by various dxers since early 1992. The only thing that the station transmits is the ryryry test slip. Does anyone know who this is? Freqs 5107.6 and 3677.7 kHz, logged on various times, mostly between 04.00 and 08.00 UTC and around 17.00 UTC. Mode: Baudot 50bd/270Hz shift. Here's an example:

ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
yyyy yyyy yyyy de pfre pfre yyyy yyyy de pfre pfre
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryr
yyyy yyyy yyyy de pfre pfre yyyy yyyy de pfre pfre

o UN Geneve
Robert Margolis forwarded a couple of interesting freqs used between Geneva, Switzerland and Monrovia, Liberia.
The Dept. of Humanitarian Affairs can be heard on 6766.5 in USB voice; on 13982.5 in Sitor mode. The link is to DHA, Monrovia. Monrovia's selcall is BKTX; the Red Cross on 6521 in USB voice; DHA's secondary freq. of 7210 USB voice; UN High Commission for Refugees with a sitor/pactor circuit to Freetown, Liberia on 9122.5; Air Traffic Control at the Freetwon Airport between 0800 and 1830 UTC on 6673 USB; and ATC, Freetown Airport from 0800 to 1830 UTC on 8861 USB. Thanx Bob!

o From Fabrizio Magrone (fmagrone@mbox.queen.it) came the following log:
on 22 Oct. at 09.07 UTC he heard the following on 18.1 kHz:
"XXX XXX RDL RDL 94517 83286 RIG ~LO 8056 3991 DIFTONG 8854 8270 TA F TA 8148 3677 K" (~ is a letter covered by a loud pop, maybe a R) Then into narrowband RTTY that always seems to be on that frequency.
(This is the Russian navy in Moscow, Fabrizio. Nice catch! -Ary-)

o Kootwijk Radio. In Tim's column I mentioned that Kootwijk Radio wasn't active anymore. Well, this isn't entirely true. I visited the site on 9 November and found out that all HF transmissions from Scheveningen Radio are still coming from the Kootwijk site. What is true is the fact that -according to the Kootwijk technician- PBB never came from that site. The KLM LDOC facility in Kootwijk also closed down which makes Scheveningen the only user left.

That's all for now. CU all next month. -Ary-

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T H E W U N M I L I T A R Y C O L U M N

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Hello and welcome yet another month, has passed and this month I've been sent some interesting info on the Royal Navy:

o The Royal Navy goes on-line.
The British Royal Navy has caught the latest wave sweeping up the world - by signing up for the Internet. The service has gone on-line with its own World Wide Web site which can be accessed by anybody with an Internet connection, be it at home or work.
The web site contains pages of information on the Royal Navy and the Royal Marines. The navy has taken the step to promote itself in the new medium, already available to over 1.5 Million Britons and an estimated 65

million world-wide.

It is hoped to generate interest among younger people, who are the most frequent users of the Internet, so that they might sign up for service. The web site has detailed but not classified information about the services, which is updated on a regular basis.

There is a map of the world, for example which is supposed to show where various ships are deployed. But because some of the information may be militarily sensitive, details are sometimes thin on the ground. So clicking on the South Atlantic area, shows only that unnamed ships are there to protect the Falkland Islands. There is though a mountain of facts for naval buffs with detailed histories of any individual ship and it is capable of doing. And to launch the new Internet service, a message from the First Sea Lord Sir Jock Slater.

Royal Navy director of public relations, Commodore Barry Leighton said "This is an outstanding opportunity for the navy to promote itself through this dynamic and expanding medium. It yet again proves the navy is among the leaders in advanced technology."

The Royal Navy Web site can be found at the following location:
http://www.royal-navy.mod.uk/

o New Radio Equipment for the UK Forces

The British Government has awarded ERA a contract to supply 40 DSPMOD100 digital software radios, reinforcing the company's internationally respected reputation in the area of software radio design and implementation. Software radio technology is vital to the implementation of advanced radio systems in all sorts of applications. Its key feature is that most of the radio signal processing is performed by digital signal processors (DSP), rather than in dedicated analogue components such as filters, splitters and modems.

This has the advantage that the DSP can be implemented in any generic hardware that is controlled by software. The same piece of hardware can therefore be used to receive a variety of radio signal types by appropriate programming of the software.

The DSPMOD100 radio offers a 90db instantaneous dynamic range by implementing a 16bit digital system, and recognizes AM or FM, Speech or Data, and then provides a demodulated output, other features include Automatic Frequency Control (AFC) and excellent adjacent channel rejection (90db@ 6.25kHz frequency offset). For further information ERA can be found on the WWW at the following location http://www.era.co.uk/

o Hellenic Navy

Shipyards delivered on October 23, 1996 the new Meko 200HN frigate "HS Spetses" (Pennant: F-453, Callsign: SZCC) to the Greek Navy. Two more ships of the same class are under construction.

o Former Russian Navy warship adrift in North Sea

A decommissioned Russian Navy warship was adrift in the North Sea off Norway on 24 Oct., after her tow broke during a storm. The 140 meter/460 foot long ship was drifting northwest of Kristiansund. The ship was under tow by the M/V Atrija (Russian-registry tug) from Murmansk, Russia, to India, where she was to be scrapped.

o U.S. Air Force rescues man off Iceland

The 56th Rescue Squadron of the U.S. Air Force rescued a Spanish fisherman suffering from acute leukemia on 20 Oct. off Iceland. The man, aboard the F/V Playa de Sartexens about 552 kilometers/345 miles southeast of Iceland, suffered from what appeared to be blood poisoning and liver failure. An HH-60G Rescue Hawk helicopter arrived at 1800, hoisted the man aboard and took him to Reykjavik Hospital where he is in stable condition. An HC-130 Hercules aircraft a translator supported the helicopter.

o U.S. Air Force, Navy join to rescue Japanese crewmember

The U.S. Air Force 56th Rescue Squadron and U.S. Navy Patrol Squadron 26 rescued a Japanese citizen 24 Oct. after the Icelandic Coast Guard requested assistance from the Keflavik Joint Rescue Coordination Center the day before. The man, who was suffering from internal bleeding and gastric ulcers, was aboard the M/V Shinmie Maru, 768 kilometers/480 miles south of Iceland and outside the Coast Guard's range. Two HH-60G Pave Hawk helicopters launched from the station at 1630 and were refueled by an HC-130 series Hercules. Upon

reaching the ship, 30-knot winds and high seas prevented them from hoisting the man aboard, and an attempt was postponed until the next day. During the night, the ship moved to within 320 kilometers/200 miles of Iceland. A U.S. Navy P-3C Orion embarked a Japanese translator assigned to the 85th Security Police Squadron at Keflavik.

o Greek Navy warship sinks after collision, four missing

The Greek Navy Antipliarchos Lascos-class Guided-Missile Patrol Boat HS Antipliarchos Kostakos (P 25) sank at 1845 4 Nov. after a collision with the M/V Samaina (Greek-registry 3,783-gt, 810-dwt ro/ro and passenger ferry built in 1962, formerly the MV Mary Poppins; owned by Arkadia Lines Naftkik Eteria) off Vathi, Samos Island, Greece. Of the 38 aboard the warship, 34 were rescued and four (three chief petty officers and a warrant officer) are missing. The M/V Samaina, sailing from Vathi to Karlovasi, did not suffer any serious damage and her 71 passengers and 51 crew were uninjured. According to witnesses, the M/V Samaina suddenly changed course to port and collided with the starboard area of warship's stern. The Samos public prosecutor on 5 Nov. began actions against master Matthaios Pnevmatikakis and first mate Antonis Tzouanou of the M/V Samaina for causing a shipwreck through negligence. Both were later released pending a trial. The HS Antipliarchos Kostakos is in 151 meters/495 feet of water about one kilometer/0.6 miles from Samos.

o Decatur to be launched

The U.S. Navy Arleigh Burke-class Guided-Missile Destroyer Decatur (DDG-73) was christened 9 Nov. at General Dynamics Corp.'s Bath Iron Works, Bath, Maine. The ship is named for Commodore Stephen Decatur (1779 - 1820), known for his raid to burn the captured Navy frigate USS Philadelphia in Tripoli in 1804. He later served in command of the frigates USS United States and USS President during the War of 1812. Four previous ships were named in his honor, a sloop-of-war and three destroyers from 1840 to 1983. U.S. Army Gen. John M. Shalikashvili, chairman of the Joint Chiefs of Staff, will be the ceremony's principal speaker and his wife, Joan Shalikashvili, will be the ship's sponsor. Cmdr. Michael G. Knollmann, a native of Cincinnati, Ohio, is the prospective commanding officer.

o U.S. Air Force updates comms systems.

It seems that the comms systems in greenland are being updated The 38th Engineering Installation Wing is bringing Air Force members in Greenland the latest information technology by installing the Combat Information Transport System. Thule Air Base, Greenland, will be connected to an information distribution system that provides the capability to link all existing and planned voice, data, video, graphic and imagery systems via a fiber optic network. The 38th EIW is installing a fiber optic cable network at Thule and Air Force bases worldwide to allow communications with American war fighters at every level. The wing is using the Systems Telecommunications Engineering Management concept. The STEM concept ensures that American war fighters' systems architectures, from either the U.S. Army, Navy or Marine Corps, are compatible with Air Force base infrastructures.

o The U.S. Air Force moves into Africa.

The US Air Force began the initial movement of aircraft and personnel to support possible humanitarian relief efforts in Africa, on Nov. 14. This should give us some excellent monitoring opportunities, especially in Europe.

The movement involves prepositioning Air Mobility Command aircraft, crews and support people at locations in Europe in anticipation of decisions by national command authorities to conduct a multi national relief operation supporting Rwanda refugees.

Two C-17 Globemaster IIIs, one C-5 Galaxy, one C-141 Starlifter and a KC-10 Extender, headed to Europe from bases in the United States, Nov. 14.

The aircraft are carrying Tanker Airlift Control Elements required to establish self-supporting airlift operations at forward locations, plus additional aircrews needed to sustain around-the-clock operations. Command officials said that nine more missions are scheduled and will be completed by Nov. 16. The officials were quick to point out that although no final decision had been made to conduct a full-scale multinational relief effort, the movement of AMC planes and people was strictly an effort to move them to locations closer to their final destinations. A TALCE is a deployed AMC unit established at fixed, en route, and deployed locations where AMC opera-

tional support is non-existent or insufficient. It provides continuing on-site management of AMC airfield operations including command and control, communications, aerial port services, maintenance, security, weather and intelligence -- those critical elements needed to ensure a safe and highly efficient air base for all tanker and airlift operations.

o AMC looking into the Futute of Air Traffic Control.

The tremendous growth of air traffic is presenting increasing challenges for both air traffic service providers and users alike, including Air Mobility Command. The rate of growth differs among regions but is forecast to increase around the world into the next century.

Such growth is straining airspace and airport resources as they attempt to meet this swelling demand. The current air traffic system needs significant upgrades to cope with future difficulties.

In an effort to deal with these problems, the International Civil Aviation Organization, along with the Federal Aviation Administration, plan to implement new air traffic management concepts. These new concepts also offer the potential to save aircraft operators billions of dollars annually by allowing more direct routings.

Gen. Walter Kross, AMC commander, has accepted the challenge presented by these proposed changes. He sees noncompliance as "the barrier between global reach and restricted global reach."

To overcome this barrier, he has made "Global Air Traffic Management" one of his top priorities to ensure unrestricted global reach. In addition, he also wants to ensure that ongoing navigation and safety equipment modification programs, such as global positioning systems, traffic alert collision and avoidance systems, and ground proximity warning systems, are utilizing state-of-the-art equipment and will be compatible with future requirements.

The initial step toward this new air traffic environment is the implementation of Reduced Vertical Separation Minima. RVSM reduces the vertical separation between aircraft from 2,000 feet to 1,000 feet at altitudes above 29,000 feet. It is scheduled to go into effect over a majority of the Atlantic Ocean airspace starting in March. RVSM is just the opening chapter to the planned air traffic management changes.

This evolving air traffic management environment should culminate in 2010 with the attainment of "free flight." The concept of free flight allows the pilot a more autonomous role in route and altitude selection. The key elements of this new environment are based on emerging technologies in communication, navigation and surveillance.

Routine pilot-to-controller voice communications will be augmented and eventually replaced by data transmissions. Navigation will be accomplished with increasingly accurate global navigation satellite systems and advanced aircraft flight management systems. Safe separation of aircraft will be enhanced by surveillance systems giving pilots information on other traffic and recommended actions.

AMC has established a new communication, navigation and surveillance branch in the headquarters to specifically work these issues. Its first task is to ensure all command aircraft are RVSM compliant. The branch is also working with the FAA and ICAO to firm up implementation timelines and define requirements for future changes.

Branch members are in the process of assessing the status of Air Force aircraft, determining required modifications and cost, and developing an implementation master plan and acquisition strategy to meet both short-range and long-range deadlines.

These proposed air traffic management changes will have a significant impact on the Air Force's peacetime and contingency operations. The Air Force must be able to deploy any of its aircraft anywhere in the world at any time. AMC, along with Headquarters Air Force, has taken the initiative to meet these proposed changes. The goal is to preserve access to prime global routes in the 21st century by equipping aircraft to match technology advances within the future worldwide air traffic management system.

o U.S. Military Sealift Command forms a new squadron

The U.S. Military Sealift Command has formed Afloat Prepositioning Ship Squadron 4. Currently located in the Arabian Gulf supporting the U.S. Central Command, it includes the U.S. Ready Reserve Force ro/ro cargo ships M/V Cape Decision, M/V Cape Douglas, M/V Cape Henry, M/V Cape Horn (the flag ship), M/V Cape Hudson and M/V Cape Washington. The ships carry enough equipment,

fuel, food, supplies and spare parts to keep a U.S. Army mechanized heavy brigade operating for 15 days.

o Canadian Air Command assists crewmember of fishing vessel

Two Canadian Air Command personnel parachuted into Baffin Bay the night of 12 Nov. to assist a man vomiting blood aboard the F/V Vesturvan (Dutch-registry), which was fishing for turbot. Master Cpl. Keith Mitchell, 33, and Master Cpl. Brian Pierce, 30, from No. 413 Rescue Squadron at CFB Greenwood, Nova Scotia, jumped from a CC-130 series Hercules aircraft and swam to the vessel. Joshua Alookie, 41, suffered internal bleeding and was taken to Baffin Regional Hospital in Iqaluit, Northwest Territories.

o Missouri open until 11 Dec.

The U.S. Army Corps of Engineers has announced that the Missouri River will be open to barge traffic until 11 Dec. Usually, the Corps closes the river by 1 Dec., but due to extra water in reservoirs upstream, the navigation season has been extended.

o URL's to Surf

And finally, a new section for the end of the column, a short list of relevant URL's that may be worth looking at. This month it's a UK/MOD flavour which makes an interesting change, considering that in the past it has been difficult to get any info at all about the UK services.

http://www.royal-navy.mod.uk/
http://www.mod.uk/
http://www.open.gov.uk/raf/rafhome.html
http://www.open.gov.uk/dsgt/dsgt.html
http://www.serve.com/rm/sinnfein
http://www.nato.int/
http://www.stc.nato.int/
http://www.dra.hmg.gb/
http://www.deltaweb.co.uk/

Once again, credit goes to Day Watson, Ary Boender, Costas Krallis, (U.S.) Navy News Service, U.S. Air Force News, Rick Baker, NS, Steve Schulz, and the Ships list.

Also a personal request, NS you sent me some info, saying you had limited net access, can you get in touch via email if you can.

That's it for this month, see you soon... Paul J

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Utility Monitoring in the Maritime Bands
Editor: Day Watson (jdwatson@cableinet.co.uk)
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Greetings maritime monitors

The column this month leaves no room for idle chit-chat other than to remind you that my email address has changed (ref column heading).

The qtc list:

Maritime comms in Australia
Autolink RT
Portishead Radio/GKA - a visit
Brest-Le Conquet/FFU - a visit
Oceanic yacht races
European NAVTEX developments
Canadian CGRS St. John's/VON ceases 500 khz watch

Station overview
Hong Kong Radio

++++++ Maritime comms in Australia

Having spent some time inserting various weekly corrections to ALRS Vols 1 and 3 (Coast Stations and Wx/Navs resp.) I realized there has been much change in the Australian maritime scene.

I am indebted to WUNner Glenn Dunstan for providing answers to my questions - I trust you will enjoy and appreciate his overview.

"Telstra is a new name for what was the old OTC - government owned, not privatized.

VIP [Perth] is the only TOR station now. Globe Wireless are to lease a couple of the 10kw Marconi TOR txers for their global email service - should start in about a month (circa end of Nov - Day)

VIB [Brisbane] remotely controls the HF radphone channels (used for link calls) from VIS [Sydney] / VIT [Townsville] and VIM [Melbourne]. VID [Darwin] and VIP HF radphone channels are locally controlled.

VIB remotely controls the SOLAS [Safety Of Life At Sea] channels (500, 2182, 4125, 6215, 8291, 12290, 16420 and DSC) from VIS, but still identifies as 'Sydneyradio/VIS' (even though the operator is in fact north of Brisbane at a place called Ningii). VIT, VID, VIM and VIP SOLAS channels are locally controlled.

VIS is now completely remote controlled - no operators are based at the historic LaPerouse station. The marble bust of Marconi still guards the gate.....

The Sydney transmit and receive sites are based in the western suburbs about 40km from the coast at Bringelly and Doonside. These stations were opened in the 50's, and at that time were the main HF gateways into and out of Oz.

The HF point to point services operated up until the 70's, when satellite links replaced them. These stations are magnificent to look over, they occupy a land area of 400 acres each.

Walking through the receive station is like stepping back in time...the receiver hall is now completely empty, the racks and racks of valve receivers having been replaced by small solid state units which now occupy what was once a store room....The manager's office has been preserved exactly the way he left it on his last day. The tennis court and staff houses still stand, now sadly empty.

The VIS HF CW txers are no longer used for working, only MSI (wx and navs) broadcasts. These are the original AM20 txers that you (and I) worked at sea - they are about 40yrs old (really magnificent to look at) - they run about 5kw into delta matched dipoles. Again these txers are controlled from VIB.

VIP is now the main HF CW station - they have taken some of the old Sydney HF CW channels (such as what was VIS26 - 8521 and VIS3 12952 - I'd like $10 for every time I worked those channels.....)). VIP uses 10kw Marconi txers into delta matched dipoles on the HF CW services.

All network stations maintain H24 watch on 500, and will continue to do so until 1999. They also accept traffic on MF as per normal.

VIM, VIT and VID run a short range CW service on 8 MHz HJ [daytime] and 4 MHz HN [nighttime]. Callbands are radiated on these channels, which run 1kw generally into travelling wave dipoles and wideband deltas.

There is also a coast station located at the Australian Maritime Rescue Coordination Centre (MRCC) in Canberra - its callsign is VIX - it is very

rarely on the air, as its purpose is to monitor the main coast station network. It can transmit on all maritime bands in all modes (CW, SSB, TOR and DSC) if required. It uses SKANTI and ICOM equipment. A very rare catch indeed.....(QSL info: my email address....).

The national VHF "seaphone" network (used for VHF link calls) is totally remote controlled from VIB. This is suffering very badly from the large influx of mobile telephones in oz - the VHF network faces a very limited future and may well close shortly. Every man and his dog uses a cellular telephone on their boat now (despite marine notices from us warning of the inherent shortcomings of cellular telephones for distress and safety purposes).

The network is continually evolving, however rest assured that HF maritime services will be maintained in oz into the foreseeable future.

Despite what some would have us believe, the GMDSS is NOT only a satellite based system.

Long live HF...

++++++ AutoLink RT

Last month mention was made of Autolink RT - but what is it?

This is a proprietary system developed, manufactured and marketed by the Italian company Cimat s.p.a. and now used in thirteen countries round the world.

Where ship and shore are so fitted it is possible for the ship to direct dial the required number. The processing of this call is accomplished automatically thereby bypassing the conventional need to call a coast station manually, transfer possibly to a working channel, then pass the number verbally, before being connected to the required party.

The calling party tunes (MF/HF) his transmitter/receiver to those frequencies necessary for the required duplex channel to be used (the shore administration must indicate whether it has Autolink RT capability on said channel), or selects the channel on VHF.

A Personal Identity Number (PIN) is entered on the keypad of the controller or the handset (depending on model). Up to 99 PINs are used not only to control access to the unit but can also be used for charging purposes eg individual crew members, or ship departments.

Following the necessary prompts on the controller or handset's LCD display the required number is keyed in. The controller then causes the unit to generate a suitable data burst which triggers the shore Autolink RT computer. This proceeds to dial the number and connect the ship to the required party, thereafter metering the call time. On completion the relevant account will be updated automatically. Both national and international calls relative to the coast station are handled, all without operator intervention.

In addition scrambling facilities are available to provide secrecy of correspondence.

The shipboard equipment is easily installed. It is a unit connected between the RT handset and the transmitter. This means that it may be installed to equipment of any manufacture.

Analysis of the data signals shows what is in effect Audio Frequency Shift Keying. The two data tones are based on an offset of 2500 hz with a +/- 85 hz shift and running at 50bd (certainly on MF - it may be higher on VHF).

This is the extent of my technical knowledge on the data burst and that has been achieved by monitoring and analyzing with HOKA Code30. The coding of the various characters, and the format of the data burst is not known. It is also assumed that each unit has the ship's identity configured into it such

that this will be passed during the calling burst.

In monitoring a ship signal encryption was on and a short data burst was heard at (what appeared to be) the beginning and the end of each passage of speech. It is assumed the encryption algorithm was being changed.

Worldwide the countries so far to have fitted Autolink RT within their networks are Belgium, Croatia, Greece, Gibraltar, Italy, Malaysia, Namibia, Portugal, South Africa, Spain, Thailand, UK and USA. Not all administrations have the capability on all three spectrums eg Croatia, Greece and Gibraltar are VHF only, whilst USA is HF only.

A few frequencies for you to try.

USA (HF)	WOO	on channels 422 826 1228 1631	
	WOM	on channels 805 1230	
	KMI	on channels 417 814 1229 1616	
UK (MF)	GND	1722/2066	(shore/ship)
	GND	3666/3252	
	GNK	3528/3338	
	GKR	3775/3335	
Belgium (MF)	OST	1725/2069	
RSA (HF)	ZSC	on channels 424 803	

It is possible (again administration dependant):

a. for a shore caller to send automatically a paging signal to the ship. The on board user can reply immediately. If the equipment is off or they are out of range the shore system will store the call in a mailbox. This can later be accessed by the ship by dialling a short code, the display showing the number of the person who called and the call type.

b. by using two digit short codes call up special services - news, weather, etc.

Finally it is possible to call ship-ship on appropriate frequencies. In this case there will be no charging but the secrecy facility is still operative.

My thanks to Cimat's Marketing Director Gregory J Marasco for the literature provided as my main source of information.

++++++ Portishead Radio/GKA - a visit

Late in October I was invited to visit British Telecom's maritime (and aeronautical) HF station Portishead Radio. My host was Operations Manager Peter Boast.

For those of you who might not be aware, Portishead Radio is a system rather than a single site. In fact the transmitter site at Portishead (the dormitory town west of Bristol and giving the system its name) closed in 1978.

The control station is at Highbridge (51.29N 2.48W) in the county of Somerset in SW England. It is no longer a receiving site in the true sense of the word as the receiving aerials (antennae) have gone and the receivers are remotely controlled. 15-20 miles away (50.43N 2.29W) on high clear terrain at the village of Somerton is the dedicated receiving station. The transmitters are at Rugby (52.22N 1.11W) halfway up England.

The service was started in 1920 with the control station at Highbridge being first built in 1924. Last year saw the 75th anniversary of the long range service. This was my third visit to Highbridge since the late 60's when I was a "Sparks" at sea. Each time there have been major changes - this time no exception - as services have evolved (all same Charles Darwin?) and waned according to the pressures of a commercial world. Currently there is a staff of 30 Radio Officers compared to 150 odd in the 70's/80's.

The receivers used at Somerton are Racal RA1792's. These have the ability to be remotely controlled through a panel MA1075 which equates to a normal

receiver panel. Between the two however is a microwave system handling control signals and audio in. The microwave tower is virtually the only aerial left at Highbridge.

The aerial farm at Somerton comprises a large number of rhombic aerials, sufficient to allow the operator to switch round the compass and cover all bands to 30 Mhz in 15 degree steps. You bet I'm jealous.

The RA1792 receivers are multi-mode receivers tunable either manually or via pre-programmed channels (x100) covering 150 khz - 30 Mhz with a resolution of 1 hz. This makes them ideal for use in whatever service they are employed. Somerton was developed in the early 80's when plans were the order of the day in British Rail to electrify the railway running adjacent to Highbridge.

Portishead Radio provides a number of services to the community on land and in the air as well as at sea.

HT RT

There are a number of similar operating positions in the RT room. Facing the operator is a bank of nine speakers. These are connected to receivers guarding the channels being watched. Each has a control to keep the noise down but also a piece of circuitry (a bit more sophisticated than mere squelch) which indicates by LED when there is activity on that channel.

At the console the operator has the ability to control two channels - each channel having an MA1075 receiver controller, line terminal, audio filters, aerial control, and a switch panel for patching the call to line and metering call connection time.

But it takes a transmitter as well a receiver to set up a link. Each console has a pair of transmitter controllers. The operator can therefore set up his transmitter to any frequency/mode he requires through this panel. Peter tells me they use 10 KW Marconi fast tune (MFT) types operating into 15-18 dB gain RLP antennas. Tuning takes less than 10 secs to accomplish. And if conditions are such that the heavy mob is required a steerable log-periodic can be brought into use. It takes a little longer (possibly up to 90 seconds) to rotate due to the weight involved!

Finally to hand is a PC based console giving the operator such online facilities as he may require eg call accounting. On the aeronautical console a selcal generator is fitted for alerting aircraft.

On the maritime side the ship duplex channels are monitored. On the aeronautical side various frequencies are used in simplex RT mode as Portishead provides LDOC facilities for those air companies without their own HF radio network. However one company, British Airways, does have its own network (Speedbird London) but Portishead maintains a spare console at Highbridge to cover the eventually of equipment failure and provide instant backup.

Telex.

This is a completely automatic service. There is however a duty telex coordinator to provide operator cover should the need arise. In the (line) terminal room racks of Thrane & Thrane modems are in evidence. Even the remaining MF (2-3 MHz) channels where the equipment is located at the coastal radio stations are remotely controlled from Highbridge.

NAVTEX

Part of his work as telex coordinator is NAVTEX. The UK has three 518 KHz NAVTEX transmitters located at Portpatrick (SW Scotland), Cullercoats (NE England) and Niton (Isle of Wight, S England). All are driven from Highbridge and a channel check is maintained by a NAVTEX receiver.

CW.

Automation in the form of telex services has caused a large fall off in the traffic handled by CW so much so that current levels are such that only one operator is required on "search point". He continuously scans call channels 3 and 4 of the bands in use for ships calling. He takes the details (frequency) and enters them into the system issuing QRY (turn number, if necessary).

His colleague then takes over and takes/passes traffic as required. In taking traffic the message is typed straight into the local work station. This allows the operator to send it straight to line if the address is a DIRTLX number.

One interesting feature in the march of automation is the ongoing word count provided catering for all the rules in word counting. At the end of the message the operator can check this count against that in the message preamble and, if in agreement, immediately give a QSL. Time saver particularly where long messages are concerned.

If a slack period is encountered the search point operator may revert to a search and work mode.

Traffic lists and broadcasts are keyed via an MGJ keyer.

With automation the days (I'm told early-mid 80's) of labor intensive work points and long QRY lists are gone and it is unlikely that the CW service will survive much longer than two years.

Gateway.

I've mentioned the maritime and aeronautical side but not the land. To quote Portishead's brochure celebrating last year's 75th anniversary "This service [aircraft service] proved so popular that many land-based industries based in remote locations in Africa used the 'aero' frequencies culminating in the opening of the Gateway service, which continues to flourish to this day. Relief agencies, military units, embassies and industries still use the service, which acts as a lifeline to those located in countries where normal landline links are poor or non-existent."

Peter goes on to say about Gateway " that it's just another name for a point to point service - we work a lot of land mobiles especially in Africa (Land Rovers with HF radios etc). We used to get a lot of traffic from Liberia during their recent troubles. We offer the same service on telex as well, but most of the traffic is on R/T - main channels [aero] are 8170 10291 14890 19510 and 20065."

DOC

No, not "What's up, Doc?" but Distributed Operational Control. Rationalization of the coast radio station service in the UK is now such that the UK is divided into two regions, North and South, with Stonehaven/GND and Landsend/GLD the designated DWBS and BS stations respectively. DWBS stands for Distress Watch and Broadcast Station. Distress Watch is kept on 500 khz at these stations with strategically located receivers round the UK coast. Broadcast Station means that station controls simultaneously the weather/nav warning broadcasts (2-3 Mhz RT) from the stations in it's region. The computers controlling this operation are located at Highbridge.

GMDSS/DSC

In the UK the Coastguard is responsible for 2182 KHz guard and for GMDSS DSC guard on MF (2187.5Khz). There are no plans at Highbridge for Portishead Radio to support a DSC commercial function on the appropriate channels.

So there you have it - GKA in a nutshell. My thanks go to Peter and his duty staff for a very interesting afternoon.

++++++ Brest-Le Conquet - a visit.

Whilst I was visiting Portishead Radio Geoff Halligey was in France on a twin-towns exchange visit. During this time he managed a visit to FFU and sends us the following item

"Perhaps few WUN members recall the original FFU, a powerful spark station located on the Ile d'Ouessant (Ushant), off the northwest coast of France.

Today, FFU is housed in a modern building on a cliff edge, overlooking the Atlantic Ocean, on the outskirts of the little village of Le Conquet, a few miles north of the important seaport and naval base of Brest.

As well as its own traffic, FFU also controls remotely Bordeaux-Arcachon (FFC) an a number of small VHF-only stations between St. Malo Bay and the Spanish frontier. Thirty radio operators provide 24-hour coverage of several frequencies through a dozen screened operating positions, channel selection being provided by computer control.

There is still a small amount of CW traffic on MF, but today R/T is the most usual method of communication here.

Frequencies in use are:
500 khz for calling and permanent distress watch.
443.5 khz for traffic (Traffic lists at every odd H+00)
520.5 khz for gale and navigational warnings
Preliminary calls are made on 500; 512 and 517 khz are alternatives, rarely used.

The main MF R/T frequency is 1635 khz (Traffic lists every even H+03), with permanent safety watch on 2182. Other frequencies dotted along the coast as indicated above are 1671, 1876, 2691, 2723, 2726, 3719, and 3722 khz.

FFU, along with Boulogne-sur-Mer (FFB), Saint Nazaire (FFO) and Bordeaux-Arcachon (FFC) provide a medium range service to vessels in the English Channel and Atlantic seaboard; long distance traffic is handled by St. Lys (FFL, FFS, FFT). French rumors have it that all CW facilities have but another year to run."

Many thanks Geoff.

++++++ Oceanic yacht racing

This information was posted 17/Nov due to the start dates but a reminder cannot go amiss.

Global Challenge - Leg 2

This is due to commence 20/Nov with a 7000 mile hike round Cape Horn and through the Roaring Forties to Wellington, NZ. Their ETA is 30/Dec to 4/Jan.

Communications after the Horn will progressively be biased towards Sydney Radio but Portishead are expecting optimum openings using the 18 Mhz channels [1801] 19755(GKT18)/18780 and [1803] 19761(GKU18)/18786 circa 1000 (UTC) and using channel {1602] 17245(GKT62)/16363 circa 1600 or later. Sydney's main higher channels are [1203] [1231] [1602] [1612] [2203].

A reminder of the yachts with a more complete callsign list. Some tended to use callsigns rather than names during the first leg.

Commercial Union Assurance/MWSC2	Concert/MPNX4
Courtaulds International/MWSI2	Global Teamwork/MPNU4
Group 4/MPUW3 (Leg 1 leader)	Heath Insured 2/MWSG2
Motorola/MWSE2	Nuclear Electric/MPUQ3
Ocean Rover/MPNW4	Pause to Remember/MPXL3
Save the Children/MPWB2	Time and Tide/MWSF2
Toshiba Wave Warrior/MPXJ3	3 Com/MPNV4

A.R.C. race.

Some 120 yachts (don't ask who, I don't know) are due off from Las Palmas, Gran Canaria in the Canary Islands on 24th Nov heading for St Lucia on the eastern Caribbean. Communications-wise you might hear them daily around 1500 on channel [1602] 17245(GKT62)/16363.

Thanks Peter.

++++++ European NAVTEX developments

Keith Haywood has been keeping an eye on the NAVTEX channel (518 khz) and regularly noting changes.

The Irish authorities are trialing on the west coast of Ireland a transmitter with the ID [W]. No times are available as yet.

In the English Channel there appears to be areas of poor reception for the French Corsen transmitter [A]. As a result additional broadcasts of French navigational warnings are being radiated via the UK NAVTEX transmitter at Niton but using the ID [K]. The scheduled transmissions under this ID will be every four hours from 0140 whereas Niton's own transmissions under ID [S] are every four hours from 0018.

++++++ Canadian CGRS St. John's/VON ceases 500 khz watch

Also from Keith Haywood an advisory to the effect that from 31st Oct at 1330 Canadian Coastguard radio station St.John's/VON is no longer monitoring 500 khz and that all CW calls are being handled by St. Anthony. As far as VON is concerned there are no other changes in the levels of service, traffic list times/frequencies and transmitter location remaining the same.

++++++ Hong Kong Radio

Location: Hong Kong at 22.13N 114.15E

WT Service

Marker : "cq de VRX60 qsx channels 3/4/5/6"
Traffic lists: Every odd H+00 on 4232.5 8619 13031 17192
Weather: On 4232.5 8619 13031 17192 at 0118 and 1318

VRX8	4232.5	1000-1500
VRX35	8539	H24
VRX37	8543	0000-0300
VRX36	8584	0000-1300
VRX32	8619	H24
VRX60	13020.4	0000-1500
VRX62	13031	0000-1500
VRX61	13044	0000-1300
VRX81	16987	0000-1300
VRX80	17096	0000-1300
VRX82	17192	2100-1300

Telex Service

Station nr 4631 ---> selcal MCKX
Marker: "VRX" and tuning burst.
Watchkeeping: as shown
Traffic lists: In fec at 0000 04000 0800 1200 1600 on 8421.5 and 16821

VRX		Ship	Chan	Hours
VRX23	6322.5	6271.5	[618]	1000-2300
VRX33	8421.5	8381.5	[811]	H24
VRX34	8424.5	8384.5	[817]	2300-1000
VRX63	12585.5	12483	[1213]	H24

VRX64	12591	12488.5	[1224]	2300-1400
VRX83	16821	16698	[1630]	H24
VRX84	16831	16708	[1650]	2300-1400
VRX93	22379	22287	[2206]	2300-1000

RT Service

Watchkeeping: H24
Traffic list: At 0133 and 0733 on 4405

VRX	Ship	Chan
4405	4113	[417]
4417	4125	[421]
6510	6209	[604]
6516	6215	[606]
8749	8225	[811]
13167	12320	[1231]
17350	16468	[1637]
17389	16507	[1650]
22744	22048	[2217]
22816	22120	[2241]

Address:
Hong Kong Radio
Hong Kong Telecom
Telecom House,
3 Gloucester Road,
GPO Box 597
HONG KONG

Research/Acknowledgements
ALRS Vol.1 + Vol.3 (96/97)
Brannolte/Siebel SEEFUNK
CFL Ed.9
Klingenfuss Guide to Utility Radio Stations 96.

++++++

I've had to drop a second Station Overview, an Article on the Abuse of GMDSS HF channels, and Shipping snippets this month so as not to overburden the Internet and the Electronics Editor but there's always next month. Have fun - Day.

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New Products, Books, News and Reviews
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|Items to be reviewed, information about new products, books, software, or events that would be of interest to the WUN membership, send them in care of this column (not via the clubs D.C. address to save mail costs)|

Hello gang, we're back again with some more goodies for you. First, I am deep in the middle of testing and/or playing with the Hoka Code 3 Gold (I say evaluating and testing; my wife says 'playing' -hi!). I expect to have that review done for next month's issue (which will come out early due to Christmas). Now, on with this month's show:

NEW PRODUCT RELEASES
o Klingenfuss Publications has announced the publication of three new products for early December:
- 1997 Shortwave Frequency Guide;
- 1997 Super Frequency List on CD-ROM;
- 1997 Guide to Utility Radio Stations.

The 1997 Shortwave Frequency Guide is the printed version of their Super Frequency List on CD-ROM. It includes all final 1997 clandestine, domestic and international broadcast schedules worldwide (available not before mid-November). Their release states, "unlike conventional handbooks that waste ten weeks or even more, our Shortwave Frequency Guide is produced and distributed here in Europe within only ten days. What's more, this is the very first international publication that combines both worldwide shortwave broadcast and utility radio stations in one handy volume - at a sensational low price."

"The 1997 Super Frequency List on CD-ROM - already in its third edition! - has developed into a real best seller and already constitutes the international quasi-standard. The new edition now includes about 40,000 entries with all clandestine, domestic and international broadcast stations worldwide plus all utility and formerly active radio stations as well. The broadcast schedules are available as a standard.dbf file for open access."

"Our 1997 Guide to Utility Radio Stations (15th edition!) is the international standard reference book for professional radio monitoring services and interested radio amateurs and shortwave listeners alike."

* For detailed descriptions and some sample pages surf over to:
http://ourworld.compuserve.com/homepages/Klingenfuss/

o More from Klingenfuss

Klingenfuss Publications is now distributing the new Wavecom W41PC DSP data analyzer and decoder card for Windows 95 PC systems. Their release says "this professional equipment is now available and it is really the ultimate decoder. We will start distribution in early December and our "waiting list" is now open." For more information and a detailed description with some sample color screen shots please refer to
http://ourworld.compuserve.com/homepages/Klingenfuss/

For more information on the Klingenfuss products, contact Klingenfuss Publications, Hangenloher Str.14, D-72070 Tuebingen, Germany. (Phone 49 7071 62830) or by e-mail 101550.514@compuserve.com

o Short Wave Booster by Darcy Signal Enhancement

Darcy Jabs (djabs@awinc.com) forwarded some information on a product he makes and sells. Called the Short Wave Booster, it is said to work as follows.."if you are trying to listen to a signal that is weak or hard to hear my booster will make a dramatic improvement, weak signals will come in loud and clear, and it will cover the longwave band, AM Broadcast band (medium wave), and shortwave."

"I made the first one for my own use I knew it would be an excellent product for other shortwave listeners to buy. I have been constantly improving it to make it the best it can be while keeping the price as low as I can. My SHORT WAVE BOOSTER is gaining world wide recognition as one of the best on the market, it has been favorably mentioned by Glen Hauser on his WORLD OF RADIO shortwave radio program. Loren Cox Jr. from the magazine REVIEW OF INTERNATIONAL BROADCASTING tested my booster, he said "The unit is an excellent active antenna.". Marc Bulmer of the Southern Cross DX Club said "The booster is fantastic! The difference it makes is unbelievable. The Short Wave Booster is an amplified tunable preselector/booster, it goes between your antenna and your receiver and is connected to your receiver's external antenna jack. It uses two transistors one of which is a Field Effect Transistor which provides high gain with a low noise figure. This booster will work with any receiver that has an external antenna jack or terminals."

Other features:
Selective tuning 150 kHz to 30 Mhz.
30 inch built in antenna (external antenna may be used)
Gain control
Automatic antenna by-pass
Powered by 9 volt alkaline battery (not included) or any other 7.5 to 14 volt DC power source.
Switchable Broadcast Band Filter

The price of this unit is U.S.$64.95, plus U.S.$8 US for shipping and handling via money order or certified check made payable to Darcy Jabs. If your interested, Darcy can send you a .BMP picture of the unit, or you can write, call, or e-mail him at: Darcy Jabs, RR2, Burns Lake, BC, Canada, V0J 1E0 or Ph.# (520) 694 3760, E-mail djabs@awinc.com

NEWS

o Allan Rosewarne sent some info that may benefit those with e-mail access only to the internet:

"I only have access to an E-mail account through my company. Therefore reference to USENET is very restricted. I have found a service, In-Reference Inc., which will search recent USENET archive based on find parameters and filters. I discovered this, through my local library, which has WEB access on in-house terminals, at http://www.reference.com. If one wants to try this out and you have E-mail only, E-mail to <user-manual@reference.com, with 'help' in the message body, and you will receive back an eight page user manual for how to have search inquiries E-mailed back to you. Besides USENET they archive "select publicly-accessible e-mail lists", also." "This might be something those with E-mail only accounts might try!"

Thanks Allan...

o FTP Mail News
Wayne Smith sent this information about FTPMail in reply to his attempt to access:
"THIS SERVICE HAS BEEN CLOSED. We are sorry but due to charging changes within the University Internet community, the ftpmail server at the University of Wollongong has been shutdown. With the spread of the Internet via ISP's, it no longer seems necessary to offer an FTPMAIL gateway. The following is my most up to date listing of sites which may still be offering an FTPMAIL service.

ftpmail@ftpmail.ramona.vix.com (USA)
ftpmail@src.doc.ic.ac.uk (UK)
ftpmail@census.gov (USA)
ftpmail@doc.ic.ac.uk (GB)
ftpmail@sunsite.unc.edu (USA)
bitftp@pucc.princeton.edu (USA)
bitftp@vm.gmd.de (Germany)
ftpmail@ftp.uni-stuttgart.de (Germany)
ftpmail@ftp.luth.se (Sweden)
bitftp@plearn.edu.pl (Poland)
ftpmail@ieunet.ie (Ireland)
ftpmail@ccc.uba.ar (Argentina)

pdg

Peter Gray E-mail: pdg@uow.edu.au
Information Technology Services
University of Wollongong Phone: +61 42 213770
N.S.W. 2522 Australia Fax : +61 42 291985

Thanks Wayne for the update...

SOFTWARE
o SWLOGit
David Toste the author of SWLOGit, which is a DOS based logger for SWL's. It's has been around almost 3yrs. But as David writes "with changes in PC's and OS's, it comes time to change SWLOGit to keep up to times with the rest of the world and has come time to go MS-Windows. The Windows version will still provide all of the options that users have enjoyed using in the DOS version. Since Windows is more flexible I would like to add more to allow more of the shortwave hobby to be added to the program. The current version is more based for the general listener. But now I'm in need of help from the Utility Listeners. I am looking for feedback from listeners as to what they

are looking for in a logger. I would like to create a one-stop shop program. Where users will not have to run multiple programs. Basically what I'm looking for is what they, as a user, wants. What options do they want to be able to log into their logger for future lookup."

If you can help Dave with some ideas, drop him a line at: aa521@torfree.net or via snail mail at: David Toste, 19 Cedarwood Cresent, Brampton, Ontario, L6X 4K1, Ontario, Canada

That's all for this month. We'll be back next month with more News & Reviews to help you enjoy the world of ute listening.

==========

Editor: Martin C. Barry (martin.barry@medspec.com)
6875 Fielding #02
Montreal (Quebec)
Canada H4V 1P3

STATION/VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

FIXED STATIONS

Pointe des Sables, MRT/FUF	8478.5	CW	CRD	51 ds	4th try and $1	(JDS)
La Coruna R. NAVTEX, E/EAR	518.0	SIT	PFC	40 ds	letter	(KMH)
MRCC Dublin NAVTEX	518.0	SIT	PFC	28 ds	test via Valencia R.	(KMH)
CFARS Golan Heights/VXV9	14383.5	USB	PFC	81 ds	letter	(AI)
CFARS Topsail/CIW816	14383.5	USB	PFC	95 ds	ham card, letter	(AI)
CFARS Prijedor/CIS91	14383.5	USB	PFC	96 ds	limited ham card	(AI)
NDB Amilcar Cabral/SAL	274.0	CW	LTR	31 ds	mon in CNR	(AI)
NDB Santa Maria/SMA	323.0	CW	LTR	74 ds	mon in CNR	(AI)
NDB Sao Miguel/MGL	371.0	CW	LTR	74 ds	mon in CNR	(AI)
NDB Faial/FIL	380.0	CW	LTR	74 ds	mon in CNR, f/up	(AI)
IPS Beacon/VL8IPS	14405.0	CW	LTR	16 ds	info, sticker	(AI)
Yangon Aero, MYA	10066.0	USB	LTR	182 ds	f/up, 7th try!	(AI)

MILITARY/COAST GUARD SHIPS

FGS Brandenburg/DRAH	8335.5	USB	PFC	29 ds	postcard	(IB)
USAV Macon/AAEH	11175.0	USB	PFC	76 ds	sticker	(IB)
FGS Breitgrund (Y-866)/DRXS	3116.0	USB	PFC	12 ds		(AI)
FGS Juist (Y-1664)/DRNM	3116.0	USB	PFC	11 ds		(AI)
FGS Passau (M-1096)/DRFJ	3116.0	USB	PFC	15 ds		(AI)

CIVIL SHIPS

M/S Leeward/3FKM5	4098.0	USB	PFC	55 ds	foto	(IB)

CIVIL AIRCRAFT

Airtex Aviation/VH-IGN	8867.0	USB	PFC	22 ds	letter, foto	(IB)
Sabre Airlines/G-BPND	8960.0	USB	PFC	23 ds	letter, sticker	(IB)
Solomon-701/VH-TJB	8867.0	USB	PFC	92 ds	postcard	(IB)
Whirlpool Corp./N1904W	8864.0	USB	PFC	34 ds		(IB)

MILITARY/GOVERNMENT AIRCRAFT

CIE-001 Czech Govt./OK-VCP	8861.0	USB	PFC	24 ds	photo	(IB)

MARITIME/NAVAL/COAST GUARD STATIONS

Goteborg Radio/SAB	12652.0	ARQ	QSL	31 ds	part data f/Cal addr	(JDS)
Tofino CG Radio/VAE	4125.0	USB	LTR	26 ds	part data, brochures	(JDS)
Norddeich Radio/DAN	8483.5	CW	QSL	19 ds	ltr abt closing xmsn	(CK)

MARS STATIONS

USS Klakring/NNN0CBU	14441.5	USB	PFC	47 ds	letter, patch, foto	(IB)
Lexington, KY/AFF2CP	14606.0	USB	PFC	15 ds		(AI)
Shelbyville, IN/AFA1EN	13927.0	USB	PFC	14 ds		(AI)
Shelbyville, IN/AFA1FT	13927.0	USB	PFC	14 ds		(AI)

Satellite Beach, FL/AFA2XD	13927.0	USB	PFC	19 ds	(AI)
Smyrna, GA/AFA2XW	13927.0	USB	PFC	19 ds ham-card	(AI)
Binghampton, NY/AFA1YV	13927.0	USB	PFC	21 ds ham-card	(AI)

# # #

*** THE LITTLE BLACK BOOK ***

The following addresses correspond to some of the QSL's listed above:

Station Pointe des Sables/FUF
Marine Nationale
Zone Maritime Antilles
S.T.I.R. Fort de France
B.P. 619
Fort de France
Marine CEDEX
Martinique

Tofino Coast Guard Radio/VAE
M.C.T.S. Operations Centre
P.O. Box 190
Ucluelet, BC
Canada
V0R 3A0

CFARS Golan Heights/VXV9
Commander
Canadian Contingent
United Nations Middleast
Attn: Cpl Herb Marr
CFPO 5002
Belleville, ON
Canada
K0K 3R0

CFARS Topsail/CIW816
Mr. Ken Knee VE1KH
P.O. Box 149
Conception Bay South, NF
A0A 3Y0

CFARS Prijedor/CIS91
Mr. Jeff Wood
22 Laroche Crescent
Petawawa, ON
K8H 3H4

Yangon Aero
Department of Civil Aviation
104 Strand Road
Yangon
Myanmar

NDB Amilcar Cabral/Sal: ASA
Empresa Nacional de Aeroportos
e Seguranca Aerea-E.P.
Aeroporto International Amilcar
Cabral
Ihla do Sal
Cabo Verde Island

Kustenfunkstelle
Norddeich Radio/DAN
Postfach 11 90
D-26491 Norden
Germany

As an added bonus to the Little Black Book this month -- kind of a pre-Christmas present -- we are printing a list of U.S. Naval Air Station (NAS) addresses. There are 15 of them this month. The other remaining 15 will follow next month. Good hunting!

NAVAL AIR STATION
250 MALL SQ
ALAMEDA CA 94501-5000

NAVAL AIR STATION ATLANTA
MARIETTA GA 30060-5099

NAVAL AIR STATION
BARBERS POINT HI 96862

NAVAL AIR STATION
551 FITCH AVE
BRUNSWICK ME 04011

NAVAL AIR STATION
CECIL FIELD DET
PO BOX 84
ASTOR FL 32002

NAVAL AIR STATION

CECIL FIELD	FL	32215-5000
NAS CORPUS CHRISTI 11001 D ST STE 143 CORPUS CHRISTI	TX	78419-5021
NAVAL AIR STATION 8100 W JEFFERSON BLVD DALLAS	TX	75211-9501
NAS DET HLT 211 SOUTH AVE STE B PENSACOLA	FL	32508-5105
NAVAL AIR STATION FALLON	NV	89406
NAVAL AIR STATION JACKSONVILLE	FL	32212
NAVAL AIR STATION JOINT RESERVE BASE FORT WORTH FORT WORTH	TX	76127-5000
NAVAL AIR STATION JOINT RESERVE BASE 400 RUSSELL AVE NEW ORLEANS	LA	70143-5012
NAVAL AIR STATION JOINT RESERVE BASE BOX 21 WILLOW GROVE	PA	19090-5021
U S NAVAL AIR STATION SIGONELLA (SICILY) PSC 1003 BOX 15 FPO	AE	09728-0315

*** VERIFYING SIGNATURES ***

The following are verifying signatures (v/s) on QSL's received from individuals to whom reception reports sometimes can be specifically addressed:

FUF/Martinique: Le Major Radio Claude Carval - Chef de la Station Reception

USS Klakring: RMCS (SW) Mehl D. Hart

Tofino C.G.: A. Henry

NDB Amilcar: Mario Paixao Lopes, ITA, Chief of Navaids Service

Yangon Aero: Thet Lwin, Radio Engineer, Yangon Int'l Airport

CFARS Golan Heights: CPL L.A. Barnett

# # #

THE GRAPEVINE: ANDREAS IBOLD provided the following information regarding his QSL from CFARS Prijedor: "The station was located on a hilltop near the town of Prijedor, about 160 km north of Sarajevo, Bosnia-Herzegovina. The station was in an army truck which was there for military communications purposes. The equipment used was a Kenwood TS-450-S(AT) All Mode transceiver and a dipole antenna cut for 14.200 MHz." He notes too that while the QSL from CFARS Golan Heights was forwarded to him by CPL HERB MARR, the verifying signature on it was that of CPL L.A. BARNETT (listed above) at the separate postal code K8N 5W6 ... Concerning his veri

from USS Klakring, IAN BAXTER says that the signer, RMCS (SW) Mehl D. Hart, "says he will be stationed onboard the Klakring until November 16th, 1997" ... JACK SIPPEL who just recently caught the QSL bug sent in the following comments: "The little black book is probably a huge black book in everyone's office/den/shack. Rather than having to search back through all of the WUN newsletters to see if there is a current address for someone I would like to QSL, I think it would be great if there were a text file (or even better a database with a query!) in the WUN Web page. You wouldn't have to start out with a full database -- you could add only the addresses listed in the newsletter each month." Well, this is certainly something to consider, Jack. I'm not sure just how WUN's Web resources now stand for a project of this kind. And I guess too that it would depend on the amount of interest by other Wunners for a facility like this, and also whether there's anyone who could spare the time to work on it. So lets begin by throwing it out to the electorate: is there anyone out there who thinks an address database of some sort along these lines would be useful to us? ... And as always, your comments, hints and suggestions are always welcome. Additional information and trivia that often accompanies verifications (antennas and transmitters used, locations, etc.) is of interest and might prove useful to fellow QSL'ers. Send it all to The Grapevine c/o The QSL Report ...

# # #

/// Spanish Cover Letters and Tutorial ///

This month we are continuing with our multilingual reception report project, this time featuring cover letters and a short tutorial in Spanish. Thanks go out for their time and translation efforts to Alex Wellner and Jean-Louis Querton. Alex has included with his translation a glossary of key terms in SS that might be helpful.

Alex's version:

Jefe de Ingeneria
Stacione.....
.....
(Date)
Estimado Senor,
Tengo.....anos, y escucho radioestaciones no radiodifusoras desde.....
Eschuchar la radio es mi pasatiempo de gusto.
Recieentemente tuvo el gran placer a estar la escucha de las emisiones
de su estaciones.....el.....de.....a.....UTC,o.....
a....de sur hora local, en una frecuencia de.....KHZ,.....metros
Onda Corta, clase de emision.....
La langua utilizada fue ....., por un hombre, una mujer.
Las cualidades de su senal estaban:
Fuerza de la senal: Bien/debil
Interferencia: no habia/poca/moderate/desde estacione..... a KHZ.
Mi receptor es de tipo para comunicaciones profesionales hecho por.....
Kenwood/Icom/Yaesu/ NRD. Mi antena es de alambre larga con .....metros/
diapole..... metros
Mas abajo incluyo algunos detalles de su programa;
(Programme details)
Se este informe de recepcion verdadermente mi recepcion de su estacion,
apreciara mucho una tarjeta de verificacion/QSL. Para este fin encluyo un
formulario preparado de tarjeta/carta y franqueo de devolucion.
Esta verificacion me es sumamente importante.
A Usted le doy muchas gracias para tomarse tiempo y esfuerzo a leer y
contestar a este informe de recepcion.
Con saluto cordiales
JOHN CITIZEN
(Address)

Equivalent English text:

Chief of Engineering
Station.....
Address

Dear Sir,
I am...years old, and I have been listening to Utility radio stations since..... Listening to radio stations is my hobby.
I have great pleasure reporting the reception of your station.....
on.....from.....to.....UTC which is .....till .....
your local time, on a frequency of .....KHZ,.....metres Short wave.
Type of signal heard was:.....?CW/RTTY/Voice.
The language heard was.....by a male/female.
The quality of your signals was:
Signal strength: Good/weak
Interference: nil/little/moderate/for a station.....on.....KHZ
My radio is a communications receiver made by:Kenwood/Icom/Yaesu/NRD.
My antenna is a longwire of .....meters/Dipole....meter.
I made the following notes of your transmission:
(Details)
If my reception is correct, I would appreciate very much a verification card, (QSL). I am enclosing a prepared card and return postage to cover mailing cost.
This verification is very important to me.
Thank you very much for your time, spent verifying my reception.
Greetings etc.

Special Note: I have to stress here, that in Spanish the accent on some letters like n and i can make a lot of differencia, therefore everyone using this report should have a spanish dictionary to add the accent marks after typing the letter. Also important to have a glossary of terms for the months, days of the week, and words like callsign, ship, airplane, etc. Hope this will be useful to everyone. I am using a similar report guide for SW stations with a 72% return rate.

Spanish Glossary Terms to Help With Letter:

January	Enero	February	Febrero	March	Marzo
April	Abril	May	Mayo	June	Junio
July	Julio	August	Agosto	Sept.	Septiembre
October	Octubre	November	Noviembre	Dec.	Diciembre

Monday	Lunes	Tuesday	Martes	Wednesday	Miercoles
Thursday	Jueves	Friday	Viernes	Saturday	Sabado
		Sunday	Domingo		

one	uno	two	dos	three	tres	four	cuatro	five	cinco
six	seis	seven	siete	eight	ocho	nine	nueve	ten	diez
eleven	once	twelve	doce	Thirteen	trece	fourteen	catorce		
fifteen	quince		sixteen	dieciseis		seventeen	diecisiete		
eighteen	dieciocho		nineteen	diecinueve		twenty	viente		
thirty	treinta		fourty	cuarenta		fifty	cincuenta		
sixty	sesenta		seventy	setenta		eighty	ochenta		
ninety	noventa		hundred	ciento					

Voice voz mirror espejo (Voice Mirror) espejo de la voz
working = trabajando calling = llamando a
cw = continuosas RTTY = radioteletipo Voice = voz
Maritime/Aeronautical = emision maritima/aeronautica
working unidentified ship/aircraft = trabajando con un barco desconocida(ship) or una aeronave estacion desconocida (aircraft)

I again emphasize the need for a dictionary to put in the accent marks, after the letter is typed.

Jean-Louis' version:

Estimado Senor,

Soy un auditor de ondas cortas en _____ [your town] _____ [geographical coordinations] en _____ [your country]. Como passatiempo, escucho las bandas HF. Soy egualmente un radio-aficionado con licencia _____ [your call sign].

El ____ [date] a _____ [time] ora GMT, tuve el placer de captar su emission _____ [transmitter identification] en _____ [frequncy] kHz en _____ [mode].

Le comunico que la qualidad de vuestra senal que recibi era de _____ (SINPO). El equipo de recepcion esta compuesto de un receptor _____ [brand, type], de una antena _____ [antenna description, height, orientation,...].

Colecciono igualmente las cartas QSL de las estaciones que escucho. Seria para mi un gran placer poder agregar a esta coleccion la carta de su estacion. Si usted tiene tiempo, me encantaria que pudiese verificar (QSL) si la recepcion es exacta.

Ruego encuentre aqui junto una carta imprimida (PFC=Prepared Form Card) a completar, ya franqueada. Muchas gracias por el tiempo que usted quiera consegrarme. Reciba mis mas atentos saludos.

_____ [your signature]

Thanks to this month's contributors:
(JDS) J.D. Stephens, USA
(IB) Ian Baxter, England
(AI) Andreas Ibold, Germany
(CK) Costas Krallis, Greece
(KMH) K.M. Haywood, England

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Howdy folks! I have a lot of different items for you this month thanks to contributors Borje Forssell, Vaino Lehtoranta, David Crawford, Ian Wraith, Karl-Arne Markstrom, Al Quaglieri, Mike Chace, Gordon Thompson (VOA), Ronny Peeters, Fabrizio Magrone, Dirk v.d. Wal and the gang who contributed to the 'Police on HF' series. Thanks a million! Enjoy -Ary-

LORAN & OMEGA

Although the discussion is still going on, it is very likely that NELS (Northern European Loran System) will get a sister in the Mediterranean area 'SELS' (Southern European Loran System). The plans are to keep the present Mediterranean chain (after brushing it up) and to install another one in western Spain and Portugal (including the Azores and Canary islands). There have been (and still are) conducted lots of discussions between the present and presumptive host nations. The Russians are very eager to get a connection to their Crimea station of Chayka. There will be ties to NELS via the French station at Soustons. I will keep you posted when more info comes available.

While LORAN's future in Europe seems to be safe, the future of LORAN in the Americas is still uncertain. It is a rather pointless discussion in my opinion as LORAN was officially declared to be the terrestrial backup for GPS/GLONASS earlier this year.

The OMEGA situation is clear though; no mercy for them. The OMEGA system will close down in September 1997. It is uncertain if this will effect the existence of the Russian ALPHA stations.

More weird stuff

Weird stuff is not only copied in the Far East but has been heard in the America's and Europe as well. In addition to Alex Wellner's list of weird Pacific stations (see last month's column), I have a bunch of others for

you. A summary:

o Europe: 25073, 26135, 26150, 26200, 26250, 26350, 26500, 26635, 26850, 26695, 26745, 26865, 29750, 29800 kHz. Digital bursts are copied on all freqs. Most probably pagers of some sort. The same kinda signals have been copied in the USA as well on a number of these freqs.

o Brazil: 25275 - 25475 kHz; pagers both text and voice.

o Central & Mexico: 26010, 26050, 26330, 26380, 26420 kHz. Full duplex automatic telephone link. Multiple stations on each freq, return links not identified. Have been heard in the USA during E and F skip band openings. Mostly Spanish language. Between 26965 and 27405 kHz, you might notice a rather extensive network of non-automated, simplex, AM mode telephone circuits on EVERY American CB channel. There are usually 2 or 3 base stations going simultaneously on each channel, each with its own operator IDing as "base" and working some numeric mobile designator. Dial & ring tones, and 3-tone paging can be heard.

o 27552.3 Unid CW beacon FU06 (formerly S52), ID and long dash every 4 mins, heard frequently, probably Latin American location. WHOISIT?

o Unid Latin American duplex telephone link, exact location unknown. Carrier is active continuously during calls, weak audio, only one side of phonecon audible. Copies of the modulated carrier appear at 5 KHz intervals around base carrier. Entire signal runs 20-30 KHz wide. A 1000 Hz tone is heard briefly when the circuit is activated. Noted on many freqs including 29715, 29805, 29835, 29850, 29865, 29895, 31525, 31615 and 31650 kHz. No return links traced.

o Argentina: 29880 - 29980 kHz AM mode nets at 10 kHz intervals, with many stations on each freq.

o Canada: pagers at various locations. Freq 30020 kHz.

Voice scrambling

Ian Wraith, Karl-Arne Markstrom and Al Quaglieri discussed a voice scrambling system on WUN recently. As systems like this can be heard on many freqs in the 2-4 MHz bands, I thought that the subject would also be of interest for those of you who are not connected to the server. Ian copied a scrambled voice system on 2.276 MHz and on 2.271 MHz). The system starts each time with a short burst of what sounds like 50 bd RTTY then what sounds like TDM analog voice scrambling and then at the end another data burst. It tends to come active in the early evening around 18.00 hrs GMT. One side of he conversation is S7 in Northern England while the other side is much lower around S2.

Karl-Arne explains the system: it is encrypted intership and ship-shore communications between fishing vessels and/or shore stations or point-to-point communications, for example oil rigs, regarding "business-critical" matters, using the S.P. Radio (Sailor) CRY2001 Scrambler (Voice Encryption Unit), which is quite popular among the North Sea fishing community. It is a unit which primarily is designed for VHF circuits, but also gives reasonable results on ground-wave (non-fading) MF/HF circuits, and it functions by using a combined TDM and FDM encryption process. The FSK burst at the beginning and end of transmission is the exchange of key decryption parameters for each transmission pass.

Al chipped the following info in: it's called "rolling code" scrambling. Usually what happens is the speech is sliced up like a loaf of bread, then the loaf is reassembled slice by slice in a different order. The burst of RTTY contains instructions telling the receiving unit how to reconstitute the scrambled slices into the original loaf configuration. The sequence changes with each transmission, necessitating the sending of a new key (rtty burst) at the top of each keydown.

Channelmarkers... more evidence

Another piece of evidence for the 'P-beacon' = Russian Navy Kaliningrad. On 3291 kHz 'P' was noted in CW, it changed to about 5 minutes of 36-50 traffic. As soon as the 36-50 went off-air, the 'P' returned. Since 36-50 is exclusively Russian Navy, that backs up the theory.

Feeders continued....

Right after the October newsletter was published, VOA's Gordon Thompson contacted us for a VOA feeders update. On 28 October Plant A at Greenville, NC, stopped broadcasting via feeders. All feeds are on satellite now. Plant A's transmitters GA-10 and GA-11 are TMC GP-40 KW, 40 kilowatt sidebanders that can send USB, LSB and ISB. GA-10 was used on 10235 and 13491.5 kHz and G-11 on 7651 and 10454 kHz. Thanks Gordon! Much appreciated.

Fabrizio Magrone writes to tell that Radio Kiribati doesn't use 14802 kHz anymore but full carrier 9825 kHz. OK, you can scrap this one too folks.

Police on HF, pt 2

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o Argentina: in addition to last month's freq: 4575, 6920, 8050 kHz, Policia Federal

o Morocco: mode USB, 5480 kHz

o Italy:
The Carabinieri was established at the end of the last century as a special army corps. They still have both military and civilian duties and are the responsibility of the Ministry of Defense. The Carabinieri is present in every Italian town, even in the smallest ones. Sometimes a garrison consists of only two or three people. The Carabinieri are the most respected of the Italian police forces.

Callsigns:
IUU - Carabinieri Rome
IEA 20 - Carabinieri Rome
IEA 21 - Carabinieri Torino
IEN 21 - Carabinieri Padova
IEN 37 - Carabinieri Gorizia

Modes: USB, baudot 50bd / shift 170hz, bit inversion. Encrypted traffic. RTTY traffic between 06.30 and 17.00 UTC

Freqs: 4602, 5025, 5075, 5395, 5761, 6747, 6811.8, 7598, 8056, 19340 kHz

The Polizia are the responsibility of the Ministry of Interior and they are present in every major Italian province town and they respond locally to the Questore (chief of police) who represents the Ministry of Interior.

Callsigns and selcalls:
IPR 34 - Polizia Genova
IPR 44 - Polizia Rome
IPR 36 - Polizia Milan
IUV 41 - Polizia Rome
IVV - Polizia Rome
VQIR, VQIT, VQUO, VQUD, VQRU, VQER, VQET, VQZT (unid stations)

Modes: USB, SITOR-A; Encrypted traffic. Test messages are usually in plain text.

Freqs: 4492.2, 4802.8, 4805.8, 4833.8, 4837.8, 4840.8, 4847.8, 4877.8, 5085.8, 5587.8, 5735.8, 5810.0 7795.8 kHz
4490 is the only frequency so far logged in USB. Sporadic traffic early in the morning (05.00-07.00 UTC). The link with MOI Rome is on 4487.8 // 7595.8 kHz.

Sample test message of Police Rome on 5810 kHz

```
----------------------------------------------
vqit vqit vqit vqit vqit vqit vqit vqit vqit vqit vqit vqit vqit vqit
ipr44 ll pp roma
$
prove tecniche
eot
```

The Guardia di Finanza is a special force established by the Ministry of Finance. Being specialized in fiscal and monetary crimes, they are the most hated and feared Italian police force. They investigate and check tax declarations, VAT, excise duties, contracts and licences, etc. The Guarfi can be quite nasty at times :-)

Callsigns:
IER 20 - Guarfi Rome
IER 23 - Guarfi Genoa
IER 27 - Guarfi Venice

Modes: Baudot 50bd, USB

Freqs: 2456, 2747, 3365, 3873, 5160, 5190, 5300, 6465, 6812, 7650, 8110, 9303, 10506.5, 11541 kHz

o France:
The Compagnie Republicaine de Securite (CRS) was formed in 1944. CRS is part of the French police but has special tasks like the protection of the President and other officials. CRS mobile units also act as highway patrol, life guards and mountain rescue teams.

modes USB, CW, ARQ-E3. Freqs: 4529 4585 4928 5033 5265 5274 5365 5395.5 5800 6855 kHz

CRS uses callsigns FIS and FSS, both followed by a 2 or a 3 + the number of the department, i.e. CRS Lyon has been copied with both FIS369 and FSS369 callsigns and CRS Pau with FIS264 and FSS364. The different call-signs are mission related and possibly also indicate various departments/ units in the same area.

Nr	Department Name	Capital City
501	Ain	Bourg-en-Bresse
502	Aisne	Laon
503	Allier	Moulins
504	Alpes de Haute Provence	Digne
505	Hautes Alpes	Gap
506	Alpes Maritimes	Nice
507	Ardeche	Privas
508	Ardennes	Charleville-Mezieres
509	Ariege	Foix
510	Aube	Troyes
511	Aude	Carcassonne
512	Aveyron	Rodez
513	Bouches du Rhone	Marseille
514	Calvados	Caen
515	Cantal	Aurillac
516	Charente	Angouleme
517	Charente Maritime	La Rochelle
518	Cher	Bourges
519	Correze	Tulle
520	Corse (Hautes)	Bastia
520	Corse (Sud)	Ajaccio
521	Cote d'Or	Dijon
522	Cotes du Nord	Saint-Brieuc
523	Creuse	Gueret
524	Dordogne	Perigueux
525	Doubs	Besancon
526	Drome	Valence
527	Eure	Evreux

528	Eure et Loire	Chartres
529	Finistere	Quimper
530	Gard	Nimes
531	Haute Garonne	Toulouse
532	Gers	Auch
533	Grionde	Bordeaux
534	Herault	Montpellier
535	Ille et Vilaine	Rennes
536	Indre	Chateauroux
537	Indre et Loire	Tours
538	Isere	Grenoble
539	Jura	Lons-le-Saunier
540	Landes	Mont-de-Marsan
541	Loir et Cher	Blois
542	Loire	Saint-Etienne
543	Haute Loire	Le Puy
544	Loire Atlantique	Nantes
545	Loiret	Orleans
546	Lot	Cahors
547	Lot et Garonne	Agen
548	Lozere	Mende
549	Maine et Loire	Angers
550	Manche	Saint-Lo
551	Marne	Chalons-sur-Marne
552	Haute Marne	Chaumont
553	Mayenne	Laval
554	Meurthe et Moselle	Nancy
555	Meuse	Bar-le-Duc
556	Morbihan	Vannes
557	Moselle	Metz
558	Nievre	Nevers
559	Nord	Lille
560	Oise	Beauvais
561	Orne	Alencon
562	Pas de Calais	Arras
563	Puy de Dome	Clermont-Ferrand
564	Pyrenees Atlantiques	Pau
565	Hautes Pyrenees	Tarbes
566	Pyrenees Orientales	Perpignan
567	Bas Rhin	Strasbourg
568	Haut Rhin	Colmar
569	Rhone	Lyon
570	Haute Saone	Vesoul
571	Saone et Loire	Macon
572	Sarthe	Le Mans
573	Savoie	Chambery
574	Haute Savoie	Annecy
575	Seine	Paris (MOI)
576	Seine Maritime	Rouen
577	Seine et Marne	Melun
578	Yvelines	Versailles
579	Deux Sevres	Niort
580	Somme	Amiens
581	Tarn	Albi
582	Tarn et Garonne	Montauban
583	Var	Draguignan
584	Vaucluse	Avignon
585	Vendee	La Roche-sur-Yon
586	Vienne	Poitiers
587	Haute Vienne	Limoges
588	Vosges	Epinal
589	Yonne	Auxerre
590	Territoire de Belfort	Belfort
591	Essonne	Evry
592	Hauts de Seine	Nanterre
593	Seine Saint Denis	Bobogny
594	Val de Marne	Creteil
595	Val d'Oise	Pontoise

5972	Martinique	Fort de France
5973	Guyana	Cayenne
5974	La Reunion	Saint-Denis
597?	Guadeloupe	Basse-Terre

Gendarmerie Nationale: modes SITOR-A, Baudot 50bd, ARQ-E3. Frequencies:
3677.0 3724.0 3780.0 3851.0 3879.0 4061.5 4504.0 4506.5
4507.7 4608.5 4761.5 4763.0 4921.5 5147.4 5438.5 5779.0
14613.7 18046.0 kHz

A network of the Gendarmerie Nationale can be heard on 4506.5/4507.7 kHz from 08.00 UTC. USB and 75bd/400Hz Baudot are being used.
The master station is the Mobile Group in Mont Saint Aignan who seems to be the connecting link between all 'Escadrons Mobile' in the region.
Normally there will be a callup in USB after which the RTTY session will start on 4507.7 kHz. All units were using 'Charlie' callsigns.
Similar transmissions were also logged on 5438.5 kHz, this time 'Golf' callsigns were used.

Charlie-???	Legion Gendarmerie Mobile Rennes	(RFFDCX LEGENDMOBIL)
Charlie-900	Groupe Mobile Mont Saint Aignan	(RFFXBX)
Charlie-903	Escadron Mobile Le Havre	(RFFXBV BRIRECHGEND)
Charlie-904	Escadron Mobile Argenton	
Charlie-905	Escadron Mobile Aunay Sur Odon	
Charlie-906	Escadron Mobile Cherbourg	

Other Gendarmerie stations:
FVA 33 - Nantes
FVA 80 - Rosny-sur-Bois
FVC 20 - Orleans
FVC 25 - Montargis
FVC 27 - Pithiviers
FVC 47 - Gap
FVJ - St. Herblain
FVK - Bordeaux
FVL - Limoges

o Lebanon: mode SITOR-A; 14613.7 kHz. Escadron Mobile Beirut (FVI 90)

o French Guyana: mode ARQ-E3. Cayenne 20756.4 kHz

o Reunion: mode baudot 75bd; clear and encrypted text. 5141.5 kHz; the frequency is used by various police stations on Reunion Island to send reports to their HQ in St Denis. Transmissions always start with ops chat in USB on the same freq.

o Australia: South Australian Police (VKA/VKB)
5181.5 is the main frequency used these days. There is a callup statewide every morning at 09.00 local time (23.30 UTC) of police stations all over South Australia.

Adelaide	2317.5	2632.0	3753.5	3821.5	4558.5	5181.5
	7658.5	7801.5	10296.5	10506.5	14573.5	18543.5
Adelaide Airport	2317.5	3821.5	5181.5	7801.5	10296.5	
Amata	2317.5	3821.5	5181.5	7801.5	10296.5	
Andamooka	2317.5	3821.5	5181.5	7801.5	10296.5	
Berri	2317.5	3821.5	5181.5	7801.5	10296.5	
Ceduma	2113.4	2317.5	3821.5	4561.5	5181.5	7661.5
	7801.5	10296.5				
Cockburn	2317.5	3747.5	3821.5	4561.5	5181.5	7661.5
	7801.5	10296.5				
Coober Pedy	2317.5	3821.5	5181.5	7801.5	10296.5	
Cowell	2317.5	3821.5	5181.5	7801.5	10296.5	
Elliston	2317.5	3821.5	5181.5	7801.5	10296.5	
Ernabella	2317.5	3821.5	5181.5	7801.5	10296.5	
Fregon	2317.5	3821.5	5181.5	7801.5	10296.5	
Hawker	2317.5	2581.5	3821.5	5181.5	7801.5	10296.5
Indulkana	2317.5	3821.5	5181.5	7801.5	10296.5	

Kimba	2317.5	3821.5	5181.5	7801.5	10296.5	
Kingscote	2113.5	2317.5	3821.5	5181.5	7801.5	10296.5
Kingston	2113.5	2317.5	3821.5	5181.5	7801.5	10296.5
Leigh Creek	2317.5	3821.5	5181.5	7801.5	10296.5	
Mannahill	2317.5	3747.5	3821.5	4561.5	5181.5	7661.5
	7801.5	10296.5				
Marl	2317.5	3821.5	5181.5	6985.0	7331.5	7801.5
	10296.5					
Marree	2317.5	3821.5	5181.5	6906.5	7801.5	10296.5
Mimili	2317.5	3821.5	5181.5	7801.5	10296.5	
Mount Terrible	2317.5	5181.5	7801.5	10296.5		
Oodnadatta	2317.5	3373.5	3821.5	5181.5	5946.5	7801.5
	7957.5	10296.5				
Penong	2317.5	3821.5	5181.5	7801.5	10296.5	
Peterborough	2317.5	3747.5	3821.5	4561.5	5181.5	7661.5
	7801.5	10296.5				
Pipalyatjara Community	2317.5	3821.5	5181.5	7801.5	10296.5	
Port Augusta	2317.5	3821.5	5181.5	7801.5	10296.5	
Port Lincoln	2113.5	2317.5	3821.5	5181.5	7801.5	10296.5
Port Pirie	2317.5	3747.5	3821.5	4561.5	5181.5	7801.5
	10296.5					
Roxby Downs	2317.5	3821.5	5181.5	7801.5	10296.5	
SA State Wide	2033.4	2113.4	2183.4	2202.4	2261.5	2317.5
	2525.4	2564.5	2573.5	2581.5	2669.5	2781.5
	3733.5	3747.5	4126.4	4561.5	4577.5	4621.4
	4781.5	5128.5	5181.5	5681.5	5834.5	6216.4
	6906.5	6985.0	7661.5	7801.5	8939.5	10281.5
	27680.0	27720.0	27820.0	27860.0	27880.0	27900.0
	27910.0	27940.0	27960.0	27980.0		
Streaky Bay	2113.5	2317.5	3373.5	3821.5	5181.5	5946.5
	7801.5	10296.5				
Summertown	2317.5	2632.0	3753.5	3821.5	4558.5	5181.5
	7658.5	7801.5	10296.5	10506.5	14573.5	18543.5
Taperoo	2317.5	2632.0	3753.5	3821.5	3821.5	4558.5
	5181.5	7658.5	7801.5	10296.5	10506.5	14573.5
Tarcoola	2317.5	3821.5	5181.5	7801.5	10296.5	
Victor Harbor	2317.5	3821.5	5181.5	7801.5	10296.5	
Whyalla	2317.5	3821.5	5181.5	7801.5	10296.5	
Wirrulla	2317.5	3821.5	5181.5	7801.5	10296.5	
Woomera	2317.5	3821.5	5181.5	7801.5	10296.5	
Yalata	2317.5	3821.5	5181.5	7801.5	10296.5	
Yankalilla	2317.5	3821.5	5181.5	7801.5	10296.5	
Yunta	2317.5	3747.5	3821.5	4561.5	5181.5	7661.5
	7801.5	10296.5				

o Australia: West Australia, Queensland, Northern Territory and New South Wales will follow next month. I am looking for police freqs in the rest of Australia. Who can help?

Sources: Special Frequenzliste, WUN, Mohammad Sultan, Dirk v.d. Wal via DX-Antwerp, Dave Gentile, Rick Baker, Eddy Waters, Sebastien Spadotto and the rest of the gang... Thanks!

Belgacom

Our friends Ronny Peeters and Dirk van de Wal from DX-Antwerp published this list of Belgacom freqs some time ago. Oostende Radio is using these frequencies towards Africa. Now the Belgians have sent humanitarian help to Zaire, some of these freqs are activated again. 16216 kHz is very busy at times. Flemish (Dutch) and French are mostly used. 99% of the traffic are phone patches.

ORI-20	10224	ORI-33	13810	ORI-27	17538,5	ORD-21	20951
ORI-30	10330	ORI-23	13987,5	ORI-28	18467	ORD-42	22935
ORI-40	10653	ORI-64	14360	ORI-58	18522,5	ORD-23	23148
ORI-50	10725	ORI-34	14392	ORI-37	18526,4	ORD-33	23410
ORI-60	10760	ORI-24	14396	ORI-38	18733,5	ORD-22	23477,2

ORI-80	10935	ORI-44	14718	ORI-79	19012	ORD-43	23570
ORI-21	11075	ORI-93	14723,5	ORI-48	19051,5	ORD-53	23692
ORI-41	11137,2	ORI-25	15550	ORI-89	19153	ORD-32	23971,1
ORI-31	11542	ORI-25	15686	ORI-29	19200	ORD-24	24070
ORI-22	12050,9	ORI-35	15946,5	ORI-39	19255	ORD-34	24445
ORI-22	12235	ORI-26	16038	ORI-59	19542	ORD-44	24820
ORI-53	13407	ORI-56	16122,7	ORI-49	19577,5	ORD-25	25411
ORI-83	13453,1	ORI-36	16216	ORI-99	19667	ORD-35	25478
ORI-63	13520	ORI-46	16287,5	ORI-69	19845	ORD-26	26770
ORI-43	13536	ORI-46	16288,9	ORD-30	20033	ORD-37	27315
ORI-73	13598,5	ORI-27	17443	ORD-20	20350	ORD-27	27350

During previous actions in Rwanda etc., I copied the Belgians many times on the above freqs. 16216 kHz was normally the most active one. The units in Africa always used 'Yankee' callsigns. I heard the following bunch during the Rwanda actions: YAN, YCM, YDA, YDE, YDG, YJC, YKI, YKS, YLA, YNS, YPC, YPF, YPM, YSA, YSM, YSY, YYB, YYK, YYR and YZA.

Right, that's all for now. I hope you liked it. Please send me your findings and thoughts. CU! -Ary-

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W O R L D B A N D S C A N

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Sorry it took an extra month to get out of here, but a promotion at work and a four-year old at home have contributed to not much free time. However, out it is and here we go with column that answers the question: WHAT'S OUT THERE?

This month we look at 7900-7999 Khz. The contributors for this segment are Rick Baker, Alex Wellner, Bert Van Rij, Day Watson and Guy Denman. Thanks to one and all for their support. For the January edition of this column (and by the way the 2nd Anniversary of WUN!!!) we go back to the start of the range and pick up 7000-7399 Khz. So wade through the amateur radio static and give a listen there. Enjoy.

FREQUENCY	MODE	CALL	STATION/AGENCY	INFORMATION	LAST HEARD
7900.0	SSB		UNID	Japanese phone net	SEP96
	SSB		UNID	Philippines phone net	OCT96
	ISB	VDD	CANFORCE	Debert,Nova Scotia	
	RTTY	9VF39	SINGAPORE	PIAB News, FEC-A	
7901.5	SSB		UNID	VISIBLE w/genl call	MAY92
	ISB		CANFORCE	VFT: St.John's, NF	
7902.0	RTTY	FIT75	PARIS,FRANCE	ARQ-E3 - French mil.	NOV94
7902.5	SSB	Y6P	UNID	Wkg K7S w/radar trckg-Europe	JUN95
7903.0	SSB		UNID	Philippines phone net	SEP96
	?		UNID	Multitone pulsing sig	SEP96
7903.5	SSB		US FED GOVT	Fed.Bureau of Invest.	
	SSB		US FED GOVT	SHARES Net	
	SSB		US FED GOVT	Federal Aviation Admin.	
7904.0	SSB		NATO	Naval Blockade - Bosnia	
7904.9	CW	QGN5	UNID	15 wpm 5LG's	SEP96
7905.0	ISB		SPLIT, HRV	GECONUNPF	
7906.0	MULT		INTERPOL		
7907.0	SSB		US AIR FORCE	Mystic Star net	
	FAX		MURMANSK, RUSSIA		AUG96
7908.0	RTTY		UNID	ARQ; English msgs	OCT93
	SSB		TRIPOLI, LIBYA	Ganfuda Oil Team	OCT96
7909.0	SSB		US COAST GUARD	Ch. 3E14	JUL96
	SSB		UNID	Philippines phone net	APR96
7909.7	RTTY		TRIPOLI, LIBYA	Ganfuda Oil Team-ARQ	OCT96

7910.0	SSB		NUMBERS	YL	SEP96
	SSB		US AIR FORCE	Mystic Star net	
	SSB		NASA		
	ISB		CANFORCE	VFT: Royal Engineers Corps	
	FAX	RCW79	ALMATY, KAZ	60+120/576	
	RTTY	9VF40	SINGAPORE	FEC-A	
7910.5	RTTY		COPENHAGEN, DEN	Italian Embassy - SITOR	
	RTTY		UNID	Piccolo 12 tone	SEP96
7911.0	SSB		LYON, FRANCE	MSF	
	UNID		UNID	Sounds like HC-ARQ/PACKET	SEP96
7912.5	SSB		AVIATION LDOC	TASA Airlines	
7913.0	SSB		UNID	Asian phone net	SEP96
	SSB		UNID	EE comms w/Scottish accent	FEB95
	RTTY	9JZ	LUSAKA, ZAMBIA	AFTN 425/50	
7914.0	SSB		NUMBERS	OM - SS 5-ltr grps	OCT95
7915.0	RTTY	CNM23	RABAT, MOROCCO	400/50	
7916.0	SSB		US COAST GUARD		
	RTTY	DGG91	BONN, GERMANY	FEC-A	OCT96
	CW	FDC	METZ,FRANCE	French Air Force	SEP96
7917.0	SSB		UNID	Pacific Is. phone net	SEP96
	SSB		US AIR FORCE	Civil Air Patrol	
	SSB		UNID	TOWNLY clg AVENGE/WALKER	AUG92
7918.0	CW	YHF	ISRAELI MOSSAD		
7918.5	SSB		US COAST GUARD	LORAN - NW Pacific	
	SSB		US AIR FORCE	Civil Air Patrol	
7919.0	SSB		US AIR FORCE	Inform Net - Ch.A18	
	SSB		US AIR FORCE	Andrews AFB discrete	
	SSB		NASA		
7919.5	SSB		UNID	OIL PUMP wkg STAFF CAR	
7920.0	SSB		UNID	CHOPPER 43 wkg CLANCY-trackg	JUL90
	SSB	X8E	UNID	Clg M1U	
	SSB		UNID	DARK STAR w/track info	
	SSB		US AIR FORCE	Civil Air Patrol	
	RTTY		RIGA, LATVIA	Italian Embassy - SITOR	
	CW	YHF1	ISRAELI MOSSAD		
7921.0	SSB		US AIR FORCE	Ch.A7 - ACROBAT	
7921.2	RTTY		UNID	Idling - ARQ342	MAR92
7921.8	RTTY		US AIR FORCE	Civil Air Patrol - PACKET	
7922.0	SSB		US AIR FORCE	Mystic Star net	
	SSB		AUSTRALIA	Davis Base, Antarctica	
	SSB/RTTY		LIBYA	Tobruk/Arab Gulf Oil Co;50bd	
	SSB		NATO	AWACS/JSTARS - Frankfurt	
7922.3	SSB		UNID	Philippines phone net	SEP95
7922.5	CW/RTTY		AUSTRALIA	Antarctic comms-ANARE base	
7923.0	SSB		CANADA	Royal Engineers Corps	
7924.0	SSB		AUSTRALIA	Antarctic comms	
7925.0	ISB	ROK22	MOSCOW, RUSSIA	R.Moscow feeder	
	RTTY	RPFN	LISBON, PORTUGAL	Navy - 850/50	SEP96
7926.0	CW	EBK	LAS PALMAS,CANARY IS.		
	CW	EBC	CADIZ, SPAIN		
7928.0	CW	RJY74	CIS?	Wkg UMI2/EWK2	
7929.0	SSB		UNID	Scrambled tfc	MAR92
	SSB		US FED GOVT	Fed.Emergency Mgmnt Agency	
	SSB		PAPUA NEW GUINEA	Commercial users	OCT96
7929.5	SSB		US NAVY	Antarctic comms	
	ISB	ZLK41	CHRISTCHURCH, N.ZLD	6028: NSF/USN/RNZ Navy	
7930.0	SSB	I89	UNID	Wkg Y1M/E89 w/comms chks	
	SSB		US AIR FORCE	Mystic Star net	
	ISB	GYU	GIBRALTAR	VFT: Piccolo	OCT96
	ISB	AEA	HEIDELBURG,GERMANY	US Army	
	FAX	LRO48	BUENOS AIRES, ARG	60/288	
7930.4	SSB		US FED GOVT	Fed.Emergency Mgmnt Agency	
7930.5	SSB	R1R	UNID	trying to contact I3C	
7931.7	RTTY		CAIRO, EGYPT	SITOR: MFA	
7932.0	SSB		UNID	Pacific Is. phone net	SEP96
	SSB		US ARMY	National Guard	
	SSB		US AIR FORCE	SITFA Net	
	SSB		US FED GOVT	Operation Secure-FL/ID/NV/	

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                                        PA/PR/SC/TX/NY         AUG92
        RTTY        UNID                Arabic text in ARQ     SEP96
        MULT        INTERPOL
7934.0  ISB   VDD   CANFORCE            VFT: Debert, NS
        RTTY SNN299 WARSAW, POLAND      MFA: POL-ARQ-100
7935.0  SSB         AVIATION LDOC       Continental Micronesia ops
        SSB         US FED GOVT         Dept.of Interior - Pacific
        SSB         US FED GOVT    Op'tion Secure-IN/MO/NC/NE/TX/WA
        SSB         US AIR FORCE        ACROBAT wkg ENTERPRISE
        SSB         US AIR FORCE        MARS
        SSB         US AIR FORCE        SITFA Net
        SSB         US AIR FORCE        MacDill AFB discrete
        CW    RMP   KALININGRAD,RUSSIA  Navy
7937.0  SSB   KM    UNID                Wkg RTTY CONTROL       NOV91
7937.3  RTTY        UNID                ARQ-E3 idling
7937.5  RTTY  GXQ   LONDON, ENGLAND     Piccolo: Army
7937.7  RTTY  RFFP  PARIS, FRANCE       MOD: ARQ-M2
7938.0  SSB         US AIR FORCE        MARS
        SSB         ALGERIA             Aviation ops
        SSB         US AIR FORCE        Elmendorf AFB discrete
        ISB   VDD   CANFORCE            VFT: Debert, NS
7939.0  RTTY        UNID         850/75 SYN CONT. NO APP ACF   SEP96
7939.5  SSB         UNID         DRAGON FWD wkg DRAGON REAR    JUL90
        SSB         US AIR FORCE        Various bases w/weather
7940.0  SSB   5GT   UNID                Wkg 7FX                OCT94
7942.0  SSB         US MARINE CORPS     Ch.3B (also 8084.5 Khz)
7944.0  SSB         US AIR FORCE        Elmendorf AFB discrete
        CW          UNID                High-spd grps-'zca zob'OCT96
7946.2  RTTY  RFVI  LE PORT, REUNION IS FF Navy ARQ-E-96       SEP96
7946.3  RTTY  DHJ51 GRENGEL, GERMANY    Meteo: 400/100         SEP96
7946.7  RTTY        MANILA,PHILIPPINES  Military ARQ-TROTTER   AUG96
7950.0  SSB         AUSTRALIA GOVT      Unid agency            SEP96
7952.0  SSB         RED CROSS
        SSB  WHD576 OWINGS,MARYLAND     Medical Adv.Systems
        CW    UHF3  YEYSK STARO,RUSSIA  Meteo
7953.0  SSB         CANADA              Bush comms: dpx:7804 Khz
7954.0  RTTY  TAD   ANKARA,TURKEY       MFA
7954.5  RTTY  LRN85 BUENOS AIRES,ARG    850/75
7955.0  SSB         US AIR FORCE        Mystic Star Net
        ISB   AEA   HEIDELBURG,GERMANY  6028: US Army
      RTTY/CW HSJ31 BANGKOK,THAILAND    50bd
7955.5  SSB         AUSTRALIA           Aviation ops
7956.0  SSB         US FED GOVT         Fed.Aviation Admin.-Fiji?
        SSB   VL5   PORT AUGUSTA,AUS    Fire Svc.
7957.0  SSB         UNID                BULLDOG wkg PROVIDER   APR92
7957.4  RTTY  CNM23 RABAT,MOROCCO
7957.5  RTTY  RFFX  VERSAILLES,FRANCE   FF ARQ-E-72
7958.0  RTTY  OMZ66 BRATISLAVA,SLOVAKIA MFA 100bd
        SSB         UNID                Asian phone net        SEP96
7959.0  SSB         US AIR FORCE        Croughton/Incirlik discrete
        RTTY  9BC23 TEHRAN,IRAN         400/50                 SEP96
7960.0  SSB   O1E   UNID          Wkg N5X w/tlk of reg.surgeon OCT96
        SSB         PHILIPPINES         Commercial units       AUG95
        RTTY  MKD   AKROTIRI,CYPRUS     VFT:DCN                SEP96
        RTTY  OLZ88 PRAGUE, CZECH REP.  MFA 400/100
7961.0  SSB         US AIR FORCE        Norton AFB, drop-zone trng
        CW    KQ6N  UNID           W/QTC AR and c/s - US HAMS? SEP96
7961.1  ISB   GXQ   LONDON,ENGLAND      VFT
7961.5  SSB         AUSTRALIA           Customs
        CW    FDG26 UNID                French Air Force
7962.0  ISB   MUH   NANYUKI,KENYA       Piccolo: DCN
7962.5  SSB         UNID            FLIGHT ALPHA wkg BRAVO-data OCT96
7963.0  SSB         US ARMY             Tactical radio ops
        SSB         US NAVY             Gulf of Mexico
7963.5  SSB         UNID          '...will not be up on freq'  OCT95
7964.0  CW    PWF77 ABROLHAS,BRAZIL     DHN wkg PWW22/PWH33
7964.2  RTTY        PORTUGESE POLICE Ponta Delgada/S.Maria/ARQ JUL96
7965.0  SSB         ROME,ITALY          Telcom
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         SSB          UNID                Philippines phone net  SEP96
7968.2   SSB          US NAVY
7969.0   SSB          UNID                Fijian phone net       SEP96
7970.0   SSB          AUSTRALIA           Commercial traffic
         ISB   RAW73  MOSCOW,RUSSIA       R.Moscow feeder
         SSB          PHILIPPINES         Commercial traffic     AUG95
7971.0   SSB          LIBYA               Oil rigs
7971.7   RTTY         UNID          FF? 8RC,Betas,no tfc ARQ-E   OCT96
7972.0   RTTY         MOSCOW,RUSSIA       ARQ-SWE: Swedish Embassy
7972.7   SSB          UNID                Pacific Is. phone net  SEP96
7973.5 CW/RTTY SPW    WARSAW,POLAND                              MAR94
7974.7   SSB          UNID                Chinese phone net      NOV95
7975.0   SSB          US AIR FORCE        Mystic Star net
         SSB   VJY    DARWIN, AUSTRALIA   Roy.Flying Doctor Svc.
         SSB   SPW    WARSAW,POLAND                              OCT96
         SSB          AUSTRALIA           Army Reserves          SEP96
7975.5   SSB   X50    UNID                Clg unid...British accent
7976.0 CW/SSB  LTA    BUENOS AIRES,ARG    Army
7976.5   ISB   AEA    HEIDELBURG,GERMANY  6028: US Army
7977.0   SSB          UNID                Philippines phone net  JUL96
7978.0   SSB          AUSTRALIA           Commercial traffic     SEP96
7979.0   SSB          GUINEA              Aviation operations
7980.0   SSB          UNID                SHARK 26 clg GROUPER 26DEC92
         ISB   NSY    SIGONELLA,SICILY    US Navy                SEP96
       CW/RTTY UMS    MOSCOW,RUSSIA       Navy - 250/50
7981.0   SSB          PHILIPPINES         Commercial traffic     SEP96
7982.0   SSB          US AIR FORCE        Mystic Star net
7982.5   RTTY  RFFCC  LILLE,FRANCE        FF ARQ-E-96            APR95
7983.0   SSB          US AIR FORCE        STRATCOM
7983.8   RTTY  RFTJF  PT BOUET,IVORY C.   French Mil ARQ-E-3     SEP96
         RTTY  RFTJ   DAKAR,SENEGAL        "       "          "
7984.0   SSB          LEBANON             Telcom
7985.0   SSB          UNID                CHERRY PT wkg CAMP BONNER/
                                         KING GEORGE 4 (VA/NC)  NOV91
         SSB          NASA
         SSB          US NAVY             IRONROD1 - AUTEC Andros Is.
         ISB   VDD    CANFORCE            Debert,NS VFT
7987.0   SSB          UNID                Pacific Is. phone net  JUL96
         CW           UNID                5-fig groups           SEP96
         RTTY         US NAVY        850/75 encrypted - unid loc OCT96
7988.5   SSB          UNID                Philippines phone net  JUL96
7989.0   SSB          UNID                Indonesian phone net   AUG95
7990.0   SSB          US NAVY             Tracking net           FEB94
         ISB   NAM    US NAVY             Norfolk,VA
         ISB   VHC    BELCONNEN,AUSTRALIA Piccolo: RAN
         SSB          UNID                Philippines phone net  JUL96
         RTTY         UNID           500/200 SYN CONT.NO APP ACF SEP96
7991.0   SSB          US NAVY             MARS
         RTTY  5HD    DAR-ES-SALAAM,TANZ. 850/50
7991.7   RTTY  FJY2   PORT-AUX-FRANCAIS TAAF-ARQ-E3- msg to FJY3 AUG96
7993.0   SSB          US NAVY             Antarctic comms
7993.5   SSB          US NAVY             Tracking ops           FEB95
7993.6   RTTY         US NAVY             MARS - Packet/100
7994.2   RTTY RFFVAT  INCIRLIK,TURKEY     FF Mil - ARQ-E3-200    NOV94
7995.0   SSB          UNID                'Roger, good copy, out'FEB91
7996.0   RTTY YZI227  BELGRADE, YUGO.     400/50                 MAR94
7997.0   SSB          US AIR FORCE        Mystic Star net
         SSB          US AIR FORCE        McClellan AFB discrete OCT89
         SSB          NATO                AWACS/JSTARS - Frankfurt
         RTTY SOH299  WARSAW,POLAND       370/50
7998.0   RTTY RFHJE?  PAPEETE,TAHITI      FF Navy; ARQ-E3        AUG96
7998.5   RTTY  FDY    ORLEANS AIR,FRANCE  FAF 425/50
7999.0   SSB   3U     UNID                Clg 1H for rx check    MAR93
         SSB          AUSTRALIA           Telcom                 NOV95
-------------------------------------------------------------------------
     Whew! Remember to get your stuff in now before the holiday season
starts! Take it easy...Tim
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The WUN Logs Column

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Hello everyWUN and welcome to another WUN Logs Column. I would like to start out by thanking Rick for the opportunity to serve as editor for this column, which Rick described as "his baby." I'll endeavor to maintain the high level of quality that this column in known for. The WUN Logs Column is the most complete, timely, and up-to-date source of information on utility monitoring available anywhere, and I am honored to serve as the editor. I would also like to thank the TEAM LOGS members, without whom this column would be nearly impossible to publish. They spend many hours each month putting together and editing all of the logs posted on the WUN server each month. It is a major task, and I am sure that we all appreciate their efforts.

If you have been mailing in your logs via snail mail to Rick, you can still continue to do so, as he has agreed to continue handling those. Also, if you are anonymous and wish to continue sending your logs via e-mail to Rick, he is more than happy to get them. I'm also willing to handle these. If you don't wish to post your logs via the WUN server, please feel free to send them via e-mail to Stan Scalsky or myself. We'll see that they get included in the column each month.

Last month Rick mentioned the upcoming second anniversary newsletter. I would like to remind you that it is coming up in January, 1997. We are encouraging all members of WUN to send in some logs, in order to get a good sample of what can be heard around the world. The deadline for the Third Anniversary Logs Column will be Jan 10th, 1996, so please take some time and snag a few logs for this special issue.

This month we had 52 contributors from 12 countries accounting for over 1500 individual logs. While this is outstanding, we encourage all of you to get involved. With over 1000 members, we could easily have 2 or 3 times as many people involved. Remember, this column is only as good as what you put into it. Let's make the most of it and get those logs in. Just keep in mind that the 10th of each month is the cutoff date for that month's logs. Remember, we take them with or without use of your name as you wish.

One last reminder. On behalf of TEAM LOGS I again ask that those who post or e-mail their logs try and get them as close as possible to our format This format is posted in the WUNFAQ. If anyone needs a copy, you can get it from the web page, or e-mail me and I'll send you a copy. Many man hours go into editing the logs for this column into the common format seen below. While we appreciate receiving all logs, sometimes it seems some folks go out of their way to mix up the data as much as possible. There is a method to our madness! All of the editors volunteer their time to do this for the group. Let's make it as easy as possible on them. Thanks! Now, for some logs...

=CIVIL AERO=

2887 New York: (CAR-A MWARA) 0731 USB wkg American 956, adv if south of 30N, call on 6577, otherwise call on 5550. (RB)

5493 SWR287 2328 USB Kisangani/ARP BUT/2318 FL310 MERON/2334 ONUDA/2359 IRAGA/n (AG-CQ). SAA237 2357 USB Luanda/ARP VUL. SWR284 0057 USB Brazzaville/ARP MERON/57 BUT/13. To Kisangani ctrl on VHF. BAW58 2308 USB Luanda/ARP porgi/2302 FL310 perda/2349 ramol/0027. N998JB 2252 USB Brazzaville/ARP UA400 to Abidjan ARAKI/0010 SaoTome/0108 A/c type Gulfstream 3, operator BRECO international. BAW54 2350 USB Luanda/ARP MIKMA/2340 (selcal BP-CM) MPK/0045 BOSSA/0102 RULDO/0114. AZA837 2349 USB Kinshasa/ARP /2341 FL350 /2324 TUSOX/2328 MPK/2342 RULDO/0011

FL/0029. SAB554 2357 USB Luanda/ARP Johannesburg to Brussels VUE/0018 FL310 (F-GSUN,B747). SAA231 0026 USB Luanda/ARP From LHR to Cape Town/0415 FL370 LIKAT/0022 isito/0036 ansak/0154 (ZSSAJ, B747). N998JB 2251 USB Luanda/ARP KU/2250 FL390 KIMBU/2316 VNA/n Req. FL430. SAA231 2317 USB Brazzaville/ARP London LHR to CapeTown/0415 FL330 to FL370 budu/2255 kuala/2312 LIKAT/0021 ZSSAJ, B74. BAW56 2305 USB Brazzaville/ARP VOLDA/2303 FL350 MPK/2306 BOSSA/2322 RULDO/2334 NUROK/2345 ENERI/n. KLM593 0021 USB Brazzaville/ARP KOGAN/0018 FL370 AMPIL/0025 MIKMA/0049 (Selcal DM-AK). BAW 52 2243 USB Kinshasa/ARP MPK/2236 FL310 BOSSA/52 RULDO/2304 NUROK/15 ENERI/21 To N'Djamena on 8903. SAA 238 2242 USB Luanda/ARP Johannesburg/2234 LHR/0815 MNV/2237 BUGRO/2254 Req. FL350. VUE/2341 ANUBI/0031 Kinshasa/0044 VONTI/0103 CF/0116. ETH960 2357 USB Luanda/ARP Lagos to Brazzaville FL370. VIR602 0010 USB Brazzaville/ARP MPK FL350 BOSSA RULDA. SAA235 0050 USB Brazzaville/ARP TJN/0050 FL330 MOTET/0106 KOGAN/0116. SAA252 2304 USB Brazzaville/ARP VONTI/56 CF/2309 MOROS/2329 BT/2340 FL310. AUA522 2316 USB N'Djamena/ARP FL310. QSY to 8903. SAA220 2357 USB Brazzaville/ARP LIKAT/2339 LV/0024 FL350 From Cape Town to LHR/0720. Req. direct DLA.(ZSSAT, FH-GJ) (HW)

5541 ?117: 0055 USB wkg Stockholm Rdo re posn rpt 50N 40W qsy to 8930(KW2)

5550 New York Radio LODC 0415 USB: two spanish speaking stations completely blocking LDOC ops.(AM3)

5598 Shanwick aero 0728 USB weather broadcast to the area (AW) N180GC: 0627 USB clg Shanwick, no joy. (RB)

5628 Japanair 10 0903 USB calling Honolulu with Posrep (AW)

5634 QFA64 2036 USB Perth/ARP FL370 Mauritius/0126, AFR445 2015 USB Seychelles/ARP FL310. SAA287 2034 USB Perth/ARP FL370 Contact Mauritius here or 8879 (sec.). VRG828 1902 USB Perth/Switching to Colombo on 5670 or 3470. AOM702 2122 USB Seychelles/ARP NIBAK/2024 FL310 GEPAR/2038 APKAK/2045Mog/2101. SIA406 2000 USB Perth/Switching to Mauritius on 5634 or 8879 (HW)

5644 NZ-54 0923 USB To Brisbane radio. United-842 0925 USB To Tahiti radio. "Has data link with Tahiti". All Nippon-90 1206 USB To Singapore radio. (SB)

5649 Finair 104 0330 USB (Selcal DE-CH) w/Gander Radio. (AM2)

5655 Fedex-160 1218 USB To Singapore radio. REACH-6F8 1158 USB To Singapore radio. Philippine-502 1223 USB To Singapore radio. EVA-286 1205 USB To Singapore radio. Fedex-780P 1154 USB To Singapore radio. (SB)

5658 KLM 564 2003 USB wkg CAIRO Posn ANTAX 2003 FL310 APTIX? 2023 Est SML/Abu-Simbel 2120. SPEEDBIRD 12 2021 USB wkg BOMBAY Posn GUSED 2021 FL310 BBM 2031 ERVIS next Selcal BP-AJ. CATHAY 017 2000 USB wkg BOMBAY Posn MAROB? 1956 FL350 MCT 2032. KLM 564 2003 USB wkg Cairo Posn ANTAX 2003 FL310 APTIX? 2023 Est SML/Abu-Simbel 2120. Singapore 348 1956 USB wkg Bombay Posn report & Selcal check AL-BH (B747 9V-SMD). Speedbird 12 2021 USB wkg Bombay Posn GUSED 2021 FL310 BBM 2031 ERVIS next Selcal BP-AJ. SINGAPORE 348 1956 USB wkg BOMBAY Posn report & Selcal check AL-BH (B747 9V-SMD). Cathay 017 2000 USB wkg Bombay Posn MAROB? 1956 FL350 MCT 2032 (MZ)

5667 Eagle 11 0905 USB calling Honolulu with Posrep (AW)

5670 KLM-840 1141 USB To ??? This freq i have no listing for except "south africa" any one know who uses this freq. (SB) (Dhaka, BANGLADESH; Madras, INDIA; Kuala Lumpur, MALAYSIA; Male, MALDIVES; Colombo, SRI LINKA; Yangon, MYANMAR (BURMA); Nouakchott & Nouadhibou, Mauritania; & Medan, INDONESIA all have been logged on 5670 - LOGS)

6610 VH-XRF 1145 USB To Brisbane Radio (domestic). (SB)

6637 DHL 512: 2234/2235 USB wkg Houston Radio (no joy) & MIAMI RADIO pp DHL Flt control re half way posn rpt eta JFK 2351Z (KW2).

6637 A6FPD: 0126 USB wkg Houston Radio pp Ops re eta Rochester (KSRT) 0305 United 990: 0044 USB calling Cedar Rapids Radio no joy. Connie 61C: 0124/0129 USB wkg Miami Radio re departure from Honduras -- Miami couldn't copy very well qsy 10023 with no joy. Northwest 17: 2236 USB clg Cedar Rapids Radio no joy (KW2).

6930 Bangkok 1050 USB working several a/c. Busy (AW)

8828 Honolulu Volmet (PAC-VOL) 0527 USB w/aviation wx for Anchorage, Cold Bay, others, off w/ID "this is Honolulu Volmet".... (RB)

8831 Gander Radio: NF, CAN (NAT-F MWARA) 1527 USB wkg Tourjet 027 posrep, 55N/30W 1526, FL 350, est 54N/40W 1611, selcal FP-ES (G-DAJC 767).

(RB)
8855 Manaus Radio: BRAZIL, (SAM-C MWARA) 0532 USB wkg American 904 w/posn ISANI(?) 0531 FL350, CANAIDA(?) next. At 0538 wkg American 962 2/posn AROPA(?) 0537 FL 350, passes fuel & wx. (RB)
8861 Speedbird 267 0405 USB (Selcal BP-CJ) w/Dakar Radio. (AM2) P2-MFW 2343 USB To Moresby radio. Islander of MAF. P2-IAD 2345 USB wkg MORESBY, P2-IAD ISLANDER ISLAND HELICOPTER. P2-VAB 2341 USB To Moresby radio. Islander of "GARAMUT. P2-MFQ 2347 USB To Moresby radio. Twin Otter of MAF. P2-ALY 0407 USB w/MORESBY, BANDIERANT ALR LINK, VH-FNA 0506 USB To port Moresby radio. Twin otter on loan from Flight west airline to Hevi Lift PNG landed Hoskins. (SB)
8864 Gander Radio: NF, CAN (NAT-B MWARA) 1513 USB wkg Iceland Radio re flt, selcals TWA 841, no joy, reqs Shanwick att selcal AB-HK. At 1517 TWA 841 reports 51N/40W 1517, FL 330, est 49N/50W 1610, climbing to 350, at 50w 122.7. N134TW, 747 (RB)
8867 VH-TQF 0441 USB To Brisbane radio. Aussi-761 0500 USB To Brisbane radio. NZ 89 2207 USB AUCKLAND TO TAIPEI, wkg AUCKLAND. (SB)
8882 Unid 0948 USB To Bali radio. (domestic) (SB)
8903 SPEEDBIRD 58 2115 USB wkg KINSHASA, Initial contact, following info passed: Boeing 747, Registration G-BDXB, From Harare to London Heathrow, Selcal BD-AJ, Estimates: EDUSA 2125 UGDUS 2138 PISPA 2147 UPARA 2203 SOLPA 2229 MPK 2249. ALGERIA 9801 2132 USB wkg N'DJAMENA Posn GNA 2127 FL310 ARTEK? 2138 Estimate Destination Kano 2307. (MZ) NZ-99 0444 USB To Port Moresby radio. Airborne Harare 1941, passed LUB at 2040. Estimate London 0510. Air France-273 0442 USB To Port Moresby radio HPJL 747.200 F-GEXA. ZIMBABWE 727 2118 USB wkg KINSHASA, Est Posn AIR 2135 FL370 BONTU? 2155 FL 2231. QF-69 0453 USB To Port Moresby radio. SAA 238 2207 USB CF/0014. SAA275 2358 USB Brazzaville/ARP Zurich/1840 Johannesburg/0447 TJN/0002 FL370 MOTET/0018 KOGAN/00027 MIKMA/0030 BZ/0130. Angola 7541 2224 USB Clg Luanda. No contact. SAA249 2345 USB Niamey/ARP INISA/44 FL370 DELIS/0002 to 5493 (N'Djamena). SAA234 2257 USB Brazzaville/ARP Johannesburg/1930 London LHR/0605 FL350 USB CF/2313 BT/2344. AFM05 2122 USB Kinshasa/ARP FL310 BZ/2201 (DC8, Z-WMJ, 5 POB) USB Harare/1903 to Kano/0005. 1941, passed LUB at 2040. Estimate London 0510.8903 (HW) Zimbabwe 727 2118 USB wkg Kinshasa, Est Posn AIR 2135 FL370 BONTU? 2155 FL 2231 (MZ) MKA208 2135 USB Kinshasa/ARP MPK/32 TJR/2225 Kano/2311. AFR 437 2117 USB Kinshasa/ARP ANUBI/2112 FL350 KSA/2125 eta Paris/0415. AFR421 2146 USB Luanda/ARP LITAT/2250 FL310. KLM598 2127 USB Brazzaville/ARP MOROS/2122 FL350 BT/2132 USB LURTI (selcal DM-AL, PH-BFE) to Johannesburg. BAW56 2143 USB Kinshasa/ARP FL350 (selcal BP-CF) from Johannesburg USB to London LHR MPK/2214 FL350 BOSSA/2230 RULDO/2301. SAA252 2229 USB Brazzaville/ARP MOROS/2218 BT/2228 FL350 ONIMA UMOSA. BAW 44 2207 USB MPK/2200 FL310 RULDO/2228 NUROK DIR/2350 ENDOK DJA/0034. Nigeria9803 2101 USB N'Djamena/ARP From Jeddah to Kano. GNA/2145 ARBEG/2156 USB ETSAM/2214 FL/2236 KELAK/2240 Kano/2335 (HW) Hong Kong 0720 USB wkg United 849 receiving Posrep (AW) AUA 532 2204 USB wkg Brazzaville/ARP MERON/2210 FL350 ONUDA/2236 A/c is A340 (OE-LAG). SWR 287 2206 USB wkg Kinshasa/ ARP MERON/2158 FL310 ONUDA/2224 IRAGA/n To 5493. SAA260 2307 USB Brazzaville/ARP MOROS BT/25 LURTI/34. Algeria 9801 2132 USB wkg N'Djamena Posn GNA 2127 FL310 ARTEK? 2138 Estimate Destination Kano 2307 (MZ) Zimbabwe 702 2216 USB Calling Kinshasa No contact. ACS 701 2221 USB Kinshasa/ARP IL76 from Cairo to Kinshasa. FL310 Kissangani/ now UPARA LIPON/2246. Speedbird 58 2115 USB wkg Kinshasa Initial contact, following info passed: Boeing 747, Registration G-BDXB, From Harare to London Heathrow, Selcal BD-AJ, Estimates: EDUSA 2125 UGDUS 2138 PISPA 2147 UPARA 2203 SOLPA 2229 MPK 2249 Airborne Harare. BAW58 2254 USB Brazzaville/ARP From Capetown to London. ETA/0711 FL310 (GBNLF). SAA264 2312 USB Kinshasa/ARP Johannesburg/2031 to Munich/0708 (ZS-SPE). KLM593 0001 USB Brazzaville/ARP TJN/0006 FL330 MOTET KOGAN UG13 Kinshasa From Amsterdam/1841 to Johannesburg/0440. Namibia661 2105 USB Brazzaville/ARP FL390 CF/2148 BT/2139. BAW74 2353 USB Niamey/ARP EREBO/2353 AGADES/0031. United-845 0930 USB To Tokyo radio. Namibia 664 0002 USB N'Djamena: ENDOK/0006 DIR/24 to 5493. United-1 0947 USB To Naha radio. Gabon 600 2211 USB Kano. No contact (HW) RKA9935 2248 USB Brazzaville/ARP from Bangui/2242 to Dakar/0350 USB from FL150 to 390 MOTET/2323 NALAR TJM/2349. AZA837

2251 USB Brazzaville/ARP MPK/2308 BOSSA RULDO (selcal FK-DJ). TAP222 2119 USB Brazzaville/ARP ARAKI ATAR/2122 FL350 Sao Tome/2214 USB From Luanda/2042 to Lisbon/0400 (CS-TOD). SAA 232 2148 USB Luanda/ARP From Cape Town/1805 to London LHR/0512 USB LITAT/2149 (ZS-SAC) (HW)

8921 Speedbird London 0240 USB w/Speedbird 244 enrt Miami to Sao Paulo Brazil. (AM2)

8933 Connie 708: 0146 USB wkg Cedar Rapids Radio pp Connie Ops eta 0300Z Buenos Aires. UPS BOK: 0502 2156 USB clg Cedar Rapids Radio no joy. Springbok 234:, 271, 253, 221 2200-2208 USB wkg SPRINGBOK JOHNESBURG re ops matters. Springbok 625: 2153 USB calling SPRINGBOK JOHNESBURG no joy. Continental 408: 2204 USB wkg NY Radio re SELCAL ck DL-GM on two radios (KW2).

8942 SIA11 1536 USB Calling Manila No contact. UAL805 1547 USB Singapore /ARP kesak/1534 FL390 akupi butra. THA673 1527 USB Singapore/ARP FL280 BUTRA. FDX114 1642 USB Calling Manila No contact. MAS6181 1550 USB Clg Manila No contact. CPA749 1618 USB HongKong/ARP. N888WS 1549 USB HongKong/ARP cavoi/1539 FL390. CPA271 1617 USB HongKong/ARP CAVOI/1623 (selcal AG-DL). To 5655. UPS6814 1558 USB Clg Ho Chi Minh, later Singapore: iplox/1548 310 maari/16. JAL722 1603 USB Singapore, ARP FL370 (selcal DR-EG). DLH8453 1606 USB HongKong/ARP CAVOI/1605 DaNang/1620. THA986 1548 USB Singapore/ARP kagu. SIA7875 1524 USB HongKong/ARP epsex/1522 FL350 kivag/1527 QSY to Ho Chi Minh. (HW)

8957 Shannon Volmet 0250 USB w/Aero WX. (AM2)

9031 IFN27 0937 USB Architect/dep Lyneham 0840/50 eta Paderborn 1015/25 relay K+PADAPXH (selcal AJ-BF). IFN88 0923 USB Architect/answering selcal for wx at LDSP/0900 (Split). (HW)

10024 Bogata: (SAM-NW NWARA) 0655 USB wkg American 962 w/posrep. Cubana 802: 0550 USB wkg unid station in SS/EE posrep. (RB)

10075 Continental 19: 2220 USB Houston Radio pp Dispatch re passenger flt connections. ROY 2151: 2334 USB Houston Radio pp Ops re Toronto wx & eta 1040 (p.m?)local. TCN 6917: 2228 USB wkg Houston Radio re dep SBBE couldn't hear one another. 572: 2227 USB wkg Houston Radio re SELCAL ck FL-DM. Emery Worldwide 173: 0216 USB wkg Houston Radio pp Ops/Dispatch re wx Dayton & Chicago. Delta 10: 2342 USB Houston Radio re SELCAL ck EQ-BK (KW2). Cedar Rapids: LDOC, Ia (NA-CC-LDOC) 0326 USB wkg United 982 re score in World Series. (RB)

11309 SPIROW 867 0830 USB JAYAPURA TO JAKARTA, JAKARTA, ARCE F-100. (SB)

11339 AIR NAURU 122 2218 USB TARAWA TO NAURU, wkg NADI. MARSHAL 121 2212 USB wkg NADI. KIWI 530 2219 USB wkg NADI. (SB)

11342 Honolulu ARINC 0426 USB in comm's with SOUTHERN AIR 481 w/pp to maintenance due "prop oil light on #4 engine, #4 shut down, also prop oil light on #3 engine, this one is not shut down at this time, aircraft is 158 miles out from what sounds like Simian, he is also in comm's with Alaska on VHF. (SB)

11384 QF 22 0618 USB TOKYO TO SYDNEY, HONOLULU. AIR MIKE 917 0631 USB SAIPAN TO FUKUOKA wkg HONOLULU, 727. AIR MIKE 956 0630 USB MAJURO TO JOHNSTON wkg HONOLULU, 727. JAPAN AIR 948 0620 USB SAIPAN TO NARITA, HONOLULU, 747. AIR MIKE 874 0632 USB MANILA TO SAIPAN wkg HONOLULU, 727. JAPAN AIR 778 0617 USB SYDNEY TO OSAKA, wkg HONOLULU. AIR FRANCE 273 0619 USB wkg HONOLULU. QF 70 0611 USB TOKYO TO PERTH, wkg HONOLULU. NZ 23 0611 USB AUCKLAND TO TOKYO, wkg HONOLULU, 747.400. (SB)

11396 Cathay-781 1122 USB To Jakarta radio. Bangui Aero 2212 USB Calling Brazzaville No contact, MAS 6071 1421 USB wkg Manila/ FL310. AAL 1170 1516 USB wkg New York/ARP FLANN/1516 FL390. GIA 860 1414 USB wkg Medan/ Departed Bangkok FL390 selcal bg-ah. BAW 9: 1356 USB wkg Jakarta/ FL330 to Bali Ctrl. VHF 128.3 Later (521) wkg Perth. Manila: 1345 USB Calling Udjung Pandang abt. QFA20. Thai Inter-432 1020 USB To Jakarta radio. QFA 10: 1352 USB wkg Jakarta/ARP FL330. AAL 936 1515 USB wkg New York/ARP Grann FL350 to 128.50. 1546 (Air) Mike 901C USB wkg UdjungPandang/Crossing A.461/1546 FL350 Sandy/1617 Surabaya/next selcal FJ-DE. GIA 786: 1338 USB wkg Jakarta/ARP FL290. MAS 129 1456 USB wkg Jakarta/ from Kuala Lumpur FL330 BM-GR. QF-140 1019 USB To Jakarta radio. LQBF VH-OGG 767.300. Indonesian-990 1017 USB To Jakarta radio. INDONESIAN 865 0713 USB BALI TO JAKARTA, JAKARTA, DC-10. EVER GREEN 7553 0709 USB wkg BALI. QF-147 1056 USB To Perth radio. LQBM VH-OGJ 767.300. Cathay-716 1122 USB To Hong Kong radio. Singapore-224 0955 USB To Perth radio. PK-GIB

1505 Clg Denpasar Aero (?), no contact. Selcal HL-DG (HW)
13261 N410WW 0500 USB PAGO PAGO, NADI, AGJK FALCON. (SB)
13309 DYNASTY 665 0422 USB HONGKONG TO SINGAPORE, wkg HONGKONG, A-300. Qantas 89 0740 USB calling Hong Kong for radio check (AW)
13318 NATIONAL JET SINGAPORE 219 0448 USB SINGAPORE TO SYDNEY, wkg PERTH, A-340 (my first A340 logged.) 50 ZENO AIR. QF 41 0518 USB SYDNEY to JAKARTA, wkg PERTH. AIR CHINA NATIONAL 888 0441 USB wkg PERTH, BAe-146. (SB)
13330 Houston: Universal Radio, 1613 USB Houston, Tx wkg N70AF. At 1639, wkg United 981 w/selcal ck FG-HP, 747 N176UA. (RB)
13342 VH\EAM 0700 USB QANTAS 767.200. (SB)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

518 NAVTEX 0051 fec Mon ovrnite to disc. [G] Cullercoats,G; [P] Netherlands CG, Hol; [O] Portpatrick,G; [M] Oostende, Bel; [O] St.Johns, NS; [Q] Sydney, NS; [T] Oostende, Bel; [R] Monsanto, Por; [J] Gislovshammer, Sw; [W] LaGarde, Fr (DW) VCO: CCG Sydney 2242 FEC wx id Q. 4XO: Haifa radio 0230 FEC navtex id P. VCO: CCG Sydney 0240 FEC nav wrng. GNI: Niton radio 0420 FEC id S nav wrngs, 04.22 rig list. 4XO: Haifa radio 1833 FEC freq's. NMA: USCG Miami 0400 FEC hurricane mgs. LGQ: Rogaland radio 1843 FEC pan pan mgs. Unid: 1900 FEC Unid wx for river Guadiana and Cape vincente Cabo la Nao radio? OST: Oostende radio 2250 FEC nav wrngs. 9AS: Split radio 2255 FEC nav wrng. Cross Ill d' Quessant 1600 FEC nav wrng. 9HD: Malta radio 1824 FEC nav wrng. Monsanto radio 1855 FEC nav wrngs. SVK: Kerkyra radio 2140 FEC nav wrngs. SVL: Limnos radio 2150 FEC nav wrngs. SVH: Iraklion radio 0110 FEC nav wrngs. 9AS: Split radio 1850 FEC wx. GNI: Niton radio 0018 FEC nav wrng id S. ESA: Tallin radio 0030 FEC nav wrng, id U. GCC: Cullercoats radio 0048 FEC gale wng id G. GPK: Port Patrick radio 0130 FEC gale wrng id O. SVK: Kerkyra radio 0140 FEC nav wrng id K. LGQ: Rogaland radio 0148 FEC gale wrng id L. OST: Oostende radio 0200 FEC nav wrng id M. SDJ: Stockholm radio FEC relay Lyngby nav wrng id J. OST: Oostende radio 0248 FEC gunnery. SDJ: Stockholm radio 0330 FEC gale wng id J. Cross Ill d'Quessant 0400 FEC nav wrng id A. Cabo La Nao radio mgs FEC abt Pontoon adrift id X. (BvR)
2017.5 DHJ51: Grengel Meteo, D UTC? FAX 120/576 weak. (LC)
2147 DoSC Moskva, RUS 1110 RTTY 75/500 5 LGs to 'VKX', QSY from 16245 kHz. (ANEU)
2195 DHJ51: Grengel Meteo, D UTC? FAX 120/576 weak. (LC)
2257.9 UNID [MHTL] 2000 rtty 50/R/500 Short burst of ry's with callsign MHTL in middle then idle on space (DW)
2257.9 UNID [KW4R] 2209 rtty 50/R/500 Idles on space until 2219z then short burst of ry's with callsign KW4R three times in middle UNID [E4BK] 2015 rtty 50/R/500 Short burst of ry's with callsign E4BK three times in middle then idle on space (DW)
2269.5 Unid 0130 ARQ-E will not decode (RT2)
2342 DHJ51: Grengel Meteo, D UTC? FAX 120/576 weak. (LC)
2401 LSB: Centro Meteorologico Vcom., ATA - South Shetland Islands UTC? FAX have been getting the carrier but no pics. (LC)
2474 PBC: Dutch Navy, Goeree Island 1916 RTTY 75bd/850 CARB (MC)
2592 DHJ51: Grengel Meteo, Germany 1924 RTTY 100bd/400 AAXX WX for German land stations (MC)
2609 FUO: Toulon France 1652 RTTY 75/400 French Navy with RY's+ID.(PT)
2754.4 CKN: Victoria, BC 0055 RTTY 75/850 wx msgs, to FAX at 0100. (FH)
2766 UNID 2303 ARQ-E 144/85 8RC. Unstable sync. Occasionally idles on betas, occasionally on "emcmcmce" (DW)
2767.8 LKA BONN [HF] 2325 ARQ-E 96/85 2767.820. 8rc. Cct [BYVHF] Bonn to Munich. Three msgs serials 001/002/003 (DW)
2789 FUE: Brest, France 1837 RTTY 75/709 French Navy with RY's and ID.(PT)
2815 IDR8: IN ROME 2243 RTTY 75/850 CARB "/IGJ41 /IGJ42 /IGJ43 /IDR2 /IDR3 /IDR8 /IDR5" (DW) IGJ41: Italian Navy, Augusta 1927 RTTY 75bd/850 CARB (MC)

2892.3 MGJ: UK 0115 RTTY 75/360 availability chart. (FH)
3104 Unid: 2132 FSK 50bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
3140 Russian Mil,??? 2134 FSK 200bd/500 UNID FSK System, sync, cont, ACF=0 (MC)
3156.2 Unid: 1955 FSK 75bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
3224.1 Unid: 0938 FSK 300bd/180 UNID FSK System, sync, burst, ACF=10, DGPS info? (MC)
3231.5 DHJ51: Grengel Meteo, D UTC? FAX 120/576 weak. (LC)
3233 USAF AWS Omaha 0034 FAX sending wx fax charts (DW3)
3245.5 British Mil,??? 2131 Piccolo-12, crypto (MC)
3264.9 Russian Mil,??? 2025 FSK 200bd/500 UNID FSK System, sync, cont, ACF=0 (MC)
3282.2 CSP: Portuguese Police,??? 2030 ARQ Police reports in PP (MC)
3291 Russian Navy,??? 2116 36-50 50bd/200 tfc followed by "P" SLHFB (MC)
3346.2 Russian Mil,??? 2148 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
3368.2 Russian Mil,??? 2138 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
3385 DHN37: Grengel Meteo, Germany 1041 RTTY 100bd/400 METAR, TAF, AAXX WX compiled by stn ETGT (MC)
3389.7 RFLID: Pointe a Pitre 0100 ARQ-E3 192/400 (ARI) FF msg to RFLI Fort de France. (FH)
3542.7 GKE1: PORTISHEAD RADIO 2300 FEC Marker "GKE1" and tuning burst. SVC advisory stating GNK1 [2832.7 located Norwick, Shetland Islands] proposed closing fm 1/Nov. Also indicates GKE7 [22377] now back in service (DW)
3615.7 GKY1: PORTISHEAD RADIO 2130 FEC sea area wx forecasts. (HOOD)
3667.2 Egyptian/Tunisian AF/Air Defense 2345 ARQ-E 36.12 passed one poss airfield status report til 0400 (ANEE)
3667.7 Kairo Al-Quahirah? 0100 ARQ-E 46/165 (KAA) then msg breaks up, thought to be aeronautical wx to Amman (fits C.I. of KAA which is repeated roughly every hour). (FH) (reportedly an Egyptian Air Defense system - LOGS)
3693.2 Unid 0310 UNID DATA MODE 192/120. Can anyone give me a clue as to the identity and mode? (ES)
3693.2 RFLI: Fort de France 0125 ARQ-E 192/170 (IGE) FF msg to RFLIGE St Jean Du Maroni. (FH)
3734 Russian Navy 0500 81-81 81.1bd/250 til 0530 (ANEE)
3756.7 RFLI: Fort de France 1000 ARQ-E3 192/400 (IRA) FF msg to RFLIDE Pointe a Pitre, most msgs on this channel seem to be relays from France. (FH)
3810 RST75: Mensk Meteo, URS UTC? FAX 90/576 Too much switched mode PSU QRM for me to copy here. (LC)
3832.7 Unid: 2000 ARQ-M2 200 ch1: rffb loop tests, ch2: rfft > rffvay runway serviceability reports til 0015 (ANEE)
3859.8 Unid: 1959 PACTOR 100bd/200 7+ coded data (MC)
3870.2 Russian Mil,??? 1612 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
3879 Unid: 2031 81-81 81bd/500 tfc (MC)
3931 Algerian Army,??? 2054 RTTY 50bd/400 (bitmask=31) crypto "ifdifdifdifd" lead-in (MC)
3959 SUU: Cairo Meteo, Egypt 2022 RTTY 100bd/850 AAXX WX (MC)
4002 YRR2: Bucharest Meteo, Romania 2109 RTTY 50/400 AAXX WX for Romania (MC)
4029.5 RET???: Guardia Civil,??? 2018 ARQ 100bd/400 Police reports in SS. (MC)
4075.2 Russian Mil,??? 1932 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
4084 VDD: Halifax, NS 1000 VFT channels to 4086 75/170 to Australia. (FH)
4134 Unid: 2034 FSK 100bd/200 UNID FSK System, async, cont, ACF=0 (MC)
4143 Unid: 1934 FSK 75bd/240 UNID FSK System, sync, cont, ACF=0 (MC)
4160 Unid: 0630 Unid 110/220 w/unid mode, sounds same as 2038.0, 4160, 5220.7, & 7542.7, // 4164. (RB)
4170 9ANC: M.V. Hercegovina 1655 ARQ Telex via Portishead R.(PT)
4203.5 DNCW: CONTAINERSHIPS III 0701 ARQ ETA for Tees Pilot Station. login 26813 DNCW. (HOOD)
4207.5 GMDSS CHANNEL 0920 GMDSS 100/170 2 packets. One Italian coaststation calling another suggesting RT on 4149khz which is a ship simplex RT chan. 2nd stn responds. Assume stations Rome & Genoa. (DW)
4210.5 KFS: San FRANCISCO R CA, USA 0916 CLOVER 400Hz tfc (SS)
4214 IN ROME (IDR2) 2245 RTTY 75/850 CARB"/IGJ41 /IGJ42 /IGJ43 /IDR2 /IDR3 /IDR8 /IDR5" (DW)

4232 FUF: Fort de France 0950 RTTY 75/850 RY's. (FH) FUF: FORT DE FRANCE, MRT 0209 RTTY 75/850 /RYs/SGs/10-count/de FUF (SS)
4245.8 Unid 1736 RTTY 100bd Unid scramble (BvR)
4246 RN London 1720 RTTY 100bd RN london, scramble ryryry vmgtcnj (BvR)
4255 CFH: Halifax 0945 RTTY 75/850 encrypted msgs. (FH)
4267.8 CKN: CF FORECAST CENTRE COMOX LAZA B.C., CA 0302 RTTY 75/850 RYs + waiting for tfc + fax (SS)
4267.9 CKN: Victoria, BC 1000 RTTY 75/850 wx msgs off, then to FAX. (FH)
4271 CFH: Halifax Metoc, NS, 0000 FAX 120/576 "ice analysis / analysis des glaces" environment canada product of Davis Strait - nice line in ice. (LC) CFH: CF HALIFAX NS, CAN 0044 RTTY 75/500 meteo + high seas forecast + RYs (SS) CFH: CF Halifax 0555 RTTY 75bd wx (BvR)
4295.0 HWN: FN PARIS, F 0307 RTTY 75/850 RYs/SGs/DE HWN (SS)
4444.9 Unid: 2000 VFT: 3ch of 75bd/80 FSK UNID System, sync, cont, ACF=0. (MC)
4444.7 Unid: 2001 VFT: 3ch of 75bd/80 FSK UNID System, sync, cont, ACF=0. (MC)
4445.9 Unid: 1959 VFT: 3ch of 75bd/80 FSK UNID System, sync, cont, ACF=0 (QSX 5112kHz?) (MC)
4466.5 Unid: 0554 ARQ sending selcall BMFB, & off after several mins. (RB)
4488.1 GFL26: Bracknell Meteo 0656 RTTY 75/364 with synoptic WX tfc and call tape going into the new hour. (DW2)
4489 GFL 26: BRACKNELL METEO, G 0317 RTTY 50/425 meteo (SS) GFL26: Bracknell Meteo, UK 2003 RTTY 75bd/450 AAXX WX (MC)
4508.1 British Mil,??? 2134 Piccolo-12, crypto (MC)
4516 Russian Mil,??? 1914 FSK 200/500 UNID FSK System, sync,cont,ACF=0. (MC)
4524.7 CAIRO MET (SUU) 2140 FAX 120/576 500 mb prog (DW)
4560 RLBx: Moscow Meteo 0045 FAX 120/576 unknown chart of Middle E. 0100z unknown chart of M. East. (LC)
4562.5 RETWBA***: Guardia Civil, Barcelona 2105 ARQ 100bd/400 crypto (MC)
4565 Unid 0000 Mode? 96/160 can't synch. (FH)
4569.9 HZN46: Jeddah Meteo, Saudi Arabia 1926 RTTY 100bd/850 AAXX WX for Jordanian airports (MC)
4570 DHJ51: Grengel Meteo, D UTC? FAX 120/576 weak. (LC) GRENGEL MET (DHJ51) 0712 FAX 120/576 Chart of Europe "Niederschlag mm/12h"? (DW)
4583 DDK2: Hamburg Meteo, Germany 2036 RTTY 50/400 AAXX WX for Germany. (MC)
4598 DHJ51: Grengel Meteo, D UTC? FAX 120/576 weak. (LC)
4614.2 Russian Mil,??? 2057 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
4732 Unid: 2058 FSK 75bd/810 UNID FSK System, sync, cont, ACF=0 (MC)
4807 LSB: Centro Meteorologico Vcom., ATA - South Shetland Islands UTC? FAX have been getting the carrier but no pics. (LC)
4855 USN ROOSEVELT ROADS 0018 FAX 120/576 Chart - blurred due multipath fading (DW)
4874 RFFEDFA: France(?) 1840 ARQ-E 184/390 Tfc to "SOUGE".(PT)
4896.7 'WXPV': UNID E. European net, POL? 1424 UNID 120.96/330 12-bit frame ITA-2, tfc to 'VAN1' (see also 5335.7 and 5846.7 kHz) (ANEU)
4940.9 Unid: 2100 FSK 150bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
4967 Unid: 2137 FSK 75bd/1100 UNID FSK System, sync, cont, ACF=0 (MC)
4991 Unid naval, UK 1730 RTTY 100/200 7-bit baudot // w/known RN tx on 73.17 kHz. (JD2) NATO Mil,??? 2148 RTTY 100/170 crypto w/"ryryryryryvmgtcnjbh" lead-in (MC) Unid 1812 RTTY 100bd Unid scramble. (BvR)
5082 Unid: FR MIL? 1445 ARQ-E 72bd idle (BvR)
5082.3 FF FORT DE FRANCE [RFLI] 2243 ARQ-E3 192/400 8rc. Tfc in French. Possibly circuit [IRT] Fort de FRance to Paris. On LSB of 5084 (DW)
5097 CF HALIFAX (CFH) 2301 RTTY 75/850 Periodic marker "lettershifts NAWS de CFH zkr f1 2822 3394 4168 6260 8321 12386 16573 22209 ar". (DW)
5100 MELBOURNE MET (AXM32) 0720 FAX 120/576 Hazy outlines (DW)
5102 RN LONDON (GXQ) 2306 VFT 8 channel DCN interleaved VFT on USB (DW)
5105.5 British Mil,??? 1601 Piccolo-12, crypto (MC)
5102.5 RN LONDON (GXQ) 2308 VFT 50/340 5102.595. Chan.1 in vft Eng chan idle on mark (DW)
5102.7 RN LONDON (GXQ) 2310 VFT 75/340 5102.765. Chan.2 in vft. ACF7. Online encrypted (DW)
5103.3 RN LONDON (GXQ) 2313 VFT 5103.275. Chan.3 in vft. Idle on mark (DW)

5103.9 RN LONDON (GXQ) 2320 VFT 5103.955. Chan.5 in vft. Unable determine baudrate/ACF (DW)
5103.4 RN LONDON (GXQ) 2316 VFT 75/340 5103.445. Chan.4 in vft. ACF7. One line encrypted (DW)
5104.1 RN LONDON (GXQ) 2327 VFT 96/340 5104.125. Chan.6 in vft. ACF80. Online encrypted (DW)
5127 Unid: 2140 FSK 100bd/200 UNID FSK System, async, cont, ACF=0 (MC)
5134 Unid 1447 ARQ-E 72bd idle. Unid 0851 ARQ-E 72bd idle (BvR)
5143.4 French Polynesia? 1000 ARQ-E 72/125 to 1300, strongest here about an hour after local sunrise, correspondent seems to be 5160.4, q.v. (FH)
5152 Unid: 2000 FSK 75bd/250 UNID FSK System, sync, cont, ACF=0 (MC)
5160 5UA: Niamey 0100 ARQ-M2 96/400 (VXP) both channels meteo msgs w/strong PACTOR QRM at 0124. (FH)
5160.4 RFHI?: Noumea? 0900 ARQ-E 72/125 stronger than supposed correspondent on 5143.4 but always idle, last logged w/C.I. of IOW to RFHWFF. (FH)
5176 NATO Mil,??? 2001 Link-11, tfc (MC)
5202.2 Russian Mil,??? 2001 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
5215.6 Unid: 2102 FSK 150bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
5220 Russian Navy,??? 1523 36-50 100bd/200 36bd revs, lead-in ACF=70, ACF=0 tfc (double speed) (MC)
5240.2 YZI213: TANJUGNews, Belgrade 2004 RTTY 50bd/550 Yugoslav NX in EE. (MC)
5247 Unid 1451 ARQ-E 72bd idle (BvR)
5265.2 GOVHF: Bonn 1453 ARQ-E 72bd, 1600 utc scramble mgs (BvR)
5275.7 Spanish Navy, Granada 2006 VFT: 2ch of 100bd/170 ALE System (MC)
5276.7 Spanish Navy, Granada 2005 VFT: 2ch of 100bd/170 ALE System (MC)
5287.5 RETWVB***: Guardia Civil, Burgos 1641 ARQ 100bd/400 crypto after selcal "TWVB" (MC)
5287 Unid 0747 ARQ Tfc in Spanish.(PT)
5300 Unid: 2006 FSK 75bd/250 UNID FSK System, sync, cont, ACF=0 (MC)
5320.5 RETYMT: Guardia Civil, JECOR Toledo, Spain 0655 ARQ 100/425 sending selcall TVNL, EHL8, JECOR Lugo, no joy; then sends selcall TYMG for JETER, JECOR Guadalajara & sends tfc, DE RETYMT; fol by selcall TYMM JECORIN, JETER Madrid & SS tfc. (RB)
5335.7 'VAN1': UNID E. European net, POL? 0811 UNID 120.96/330 12-bit frame ITA-2, tfc to '1IJ2','PM2G','7PW5','WXPV','M6GZ' and 'LAIA'. Opchat in unk Slavic lang, not Italian Navy, as proposed in prev issue (5846.7 kHz)! 'VAN1' is net control. (ANEU)
5377 RFFEDFA: unid 1502 ARQ-E 72bd, 1608 mgs (BvR) (possible French Army - LOGS)
5380.5 RETWLA***: Spanish Police, Alava 1959 ARQ 100bd/400 MSGs in SS to RETXX, RETWLL, RETWLG RETWLL***: Spanish Police, Logrono 1958 ARQ 100bd/400 MSGs in SS to RETXO RETWLG***: Guardia Civil, Guipuzcoa 2001 ARQ 100bd/400 crypto tfc to selcal "TXXX" RETXX***: Spanish MOI, Madrid 1953 ARQ 100bd/400 crypto tfc to selcal "TWLG" (MC)
5397.7 RFFP: MOD PARIS, F 0348 ARQ-M2 200/425 a: idle b: idle (SS)
5400 YOG37: Bucharest meteo 1508 RTTY 50bd wx (BvR)
5420.5 British Mil,??? 1603 Piccolo-12, crypto (MC)
5423.7 100***: French Army? 2012 PACTOR 100bd/200 ended "200" (MC)
5423.7 200***: French Army? 2015 RTTY 50bd/170 "ry ry ry ry de 200 200 200", Opchat in FF on USB (MC)
5423.7 100***: French Army? 2022 RTTY 50bd/170 "trop de qrm pour recevoir 200 200 de 100 100" (MC)
5429.5 NATO Mil,??? 2026 PSK 2400bps UNID PSK System (MC)
5439 MTI: Plymouth UK 1627 RTTY 75/833 Clg 9DL with Test + foxes + "GO ZNI2".(PT)
5468 Russian Navy,??? 2159 36-50 50bd/200 tfc (MC)
5516 Unid: 1951 81-81 81bd/250 tfc (MC)
5690.5 Unid: 2119 81-81 40.5bd/200 idle (MC)
5710 NATO Mil,??? 2028 Link-11, tfc (MC)
5731 YRR4: Bucharest Meteo, Rom. 2039 RTTY 50/400 AAXX WX for Romania (MC)
5743.2 German Army,??? 2015 VFT: 3ch of 192bd/170/E FEC-100, crypto ends "%%%%%%" (MC)
5743.9 German Army,??? 2017 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
5744.6 German Army,??? 2016 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
5746 UNID: poss FF Zagreb? 1528 ARQ-E 72bd idle (BvR)

5758.6 Unid: 2045 FSK 150bd/830 UNID FSK System, sync, cont, ACF=0 (MC)
5758 Russian Navy,??? 2043 36-50 50bd/200 tfc (MC)
5769 Unid: 2041 FSK 300bd/850 UNID FSK System, sync, cont, ACF=0, lead-in with reversals (MC)
5781.7 Egyptian MFA, Cairo 2049 ARQ ATU-80 MSGs to Embassy Baghdad selcal "TVVC" (MC)
5787 Unid: 1450 ARQ-E France(?) 184/315 Idling.(PT)
5796 MoI Tunis, TUN 1636 RTTY 50/180 tfc in ATU-80 (ANEU)
5801.5 Unid: 2154 FSK 100bd/150 UNID FSK System, sync, cont, ACF=0 (MC)
5835.5 GYU: Royal Navy, Gibraltar 2156 VFT: 2ch of Piccolo-6, eng ch "de gyu pse qsy to f3001 pal k" (MC)
5835.9 GYU: Royal Navy, Gibraltar 2156 VFT: 2ch of Piccolo-6, tfc ch idle (MC)
5841.5 US-INTEL PSK outlet, D? 1940 PSK UNID speed//6881.5 kHz, similar to the 108.87Bd/170Hz FSK and USB voice transmissions, the carrier shows up on the channel long before the actual transmission starts! (ANEU)
5842 Russian Mil,??? 2023 FSK 200/500 UNID FSK System, sync,cont,ACF=0. (MC)
5845.7 'VAN1': UNID E. European net, POL? 1006 UNID 120.96/330 12-bit frame ITA-2, tfc. to 'A3FB' (see also 5335.7 kHz) (ANEU)
5846 Unid: 2127 36-50 100bd/200 36bd revs, 100bd ACF=70 lead-in, crypto, 36bd revs (MC)
5850 OXT: COPENHAGEN MET 0943 FAX 120/576 Ice condition chart, at 0038 w/very blurry pix (DW)
5887.5 IMB2: ROME MET 2210 RTTY 50/850 Marker "cq de IMB31/32/33 ry's" or met tfc (DW)
6265.5 UBFX: TKH INZHENER PLAVINSKIY 0713 ARQ to UCE. login 54631 UBFX. (HOOD)
6269 WGDB: OVERSEAS PHILADELPHIA 1640 ARQ W/AMVER/PR LOGIN 11153 WGDB. (WT)
6273 P3FX2 M/V CRANE 0230 ARQ SAILED SAVANNAH. LOGIN 29545 AUK. (WT)
6282.5 ELRL9 M/T BORNES 0210 ARQ W/TLX LOGIN 24915 BORN. (WT)
6318 IN ROME (IDR3) 2246 RTTY 75/R/850 CARB " /IGJ41 /IGJ42 /IGJ43 /IDR2 /IDR3 /IDR8 /IDR5 ". Running reversed, other parallel frequencies normal (DW)
6348 HWN: French Navy, Paris, F 0205 RTTY 150/850 w/RYRY, SG's, ten count & DE HWN. (RB) HWN: Paris, France 1040 RTTY 150/840 RY's, SG's + ID+ clg "DL".(PT) HWN: FN Paris 1825 RTTY 150bd testing (BvR)
6360.9 Unid: 1730 FSK 100bd Unid FSK system running 100 baud til 1800 (ANEE)
6497 CFH: Halifax 0200 RTTY 75/850 wx msgs in abbrev EE, slight chg in freq. (FH)
6501.7 Le Port? 2300 ARQ-E 96/400 new here, (CW TBB in fringe) but always idle. (FH) (Murray Lehman noted he caught tfc here indicating it was RFFXI Bangui to RFFXIC Bouar w/a poss QSX of 6898.7 -LOGS)
6640.8 Unid: 0655 ARQ-E 192/138 w/RQ's. (RB) UNID. 0656 ARQ/E//192/I/400 Idling on 4 character pattern "Rq Beta v o" (DW)
6642.7 RFLIGE: Cayenne French Guiana 0210 ARQ-E 192/136. French Navy "Controle De Voie". (PS)
6685.5 Conoil Rig: 2306 ARQ w/company message. (RB)
6768.2 Spanish Navy, Granada 2147 VFT: 2ch of 100bd/200 ALE System (MC)
6768.5 NATO Mil,??? 0755 PSK 2400bps UNID PSK System (MC)
6778.1 Unid: 1952 FSK 300bd/180 UNID FSK System, sync, burst, ACF=10, DGPS info? (MC)
6782.1 Russian Mil,??? 0758 FSK 200/570 UNID FSK System,sync,cont,ACF=0 (MC)
6814.4 LJA30: Norwegian MFA, Oslo 0706 TWINPLEX-1w 100bd/400 crypto to embassies Tallinn, Stockholm etc (MC)
6830.1 PETRA News, Amman 1535 RTTY 50bd/400 NX in Arabic (MC)
6834 Unid: 1730 ARQ-E3 184.6 idle only, til 2230 (ANEE)
6835 GFL22: Bracknell Meteo, G 2310 RTTY 75/425 w/CQ DE & RY's. (RB)
6841.4 Algeria 2219 COQUELET-8 26.6bd tfc (MC)
6844 Unid: 0629 81-81 40.5bd/250 tfc (MC)
6850 RFFEDCS: 1346 ARQ-E France(?) 184/394 Tfc to RFFEDFB (PT). SOUD Station,??? 2051 RTTY 75bd/500 5LGs on link ID "11177 40878 79867 08009 00639" (MC)
6865 GFH: RAF Kai Tak HKG 1100 PICCOLO w/foxes & svce msgs to VHC RAN Belconnen (GYU to MUH also logged this freq) (ML2)
6870 Unid: 0651 81-81 40.5bd/450 tfc (MC)
6872 NATO Mil,??? 1934 Link-11 tfc (MC)

6881 NATO Mil,??? 2053 Link-11 tfc (MC)
6881.5 US-INTEL PSK outlet, D? 1940 PSK UNID speed//5841.5 kHz, similar to the 108.87Bd/170Hz FSK and USB voice transmissions, the carrier shows up on the channel long before the actual transmission starts! (ANEU)
6898.7 RFFXIC: Bouar 2124 ARQ-E 96/400 CENTRANS Bouar to CENTRANS Bangui, then some questionable copy. (FH)
6913.8 Unid: 0823 unk 68.5/231 Hoka Code 3 said baud was 68.67 (68.5) w/40% chance mode was AUTOSPEC, only this mode has been unheard of in like 3 years. (RB)
6918.5 ECA7: Madrid Met 0200 FAX 120-576 QWA(I,1?)40 "CHART FOR FL240" rebroadcast Bracknell product. Atlantic / polar. 0215z "27 OCT 96 0149 FROM MET IT OPS BRACKNELL TO 4806 PAGE 001" PGAE06 EGRR NAT FL250 - 630 fixed time prognosis showing sig wx and jetstreams nice chart better than Bracknell from here. (LC) Madrid Meteo: 0031 FAX wx fax charts. (DW3) MADRID MET (ECA7) 2143 FAX//120/576/N/800 Relay of Bracknell's 120/288 surface analysis but has used at an IOC of 576 (DW)
6961.5 US-INTEL PSK outlet, D? 1920 PSK UNID speed, unable to find parallel frequency (ANEU)
6961.8 MFA Oslo 1323 ARQ coded mgs sc kfpz kfyt and press review.(BvR)
6962.9 German Forces,??? 2001 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%" (MC)
6962.2 German Forces,??? 1959 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%" (MC)
6963 NATO Mil,??? 2006 ANDVT, short bursts every few seconds (MC)
6963.8 UNID. 2154 ARQ-E 192/170 Poor sync. Betas. 4RC. (DW) RFLIGA: FF Kourou? 0605 ARQ-E 192/170 w/C de V on C.I. GAG. (RB)
6971.5 FDY: French Air Force, Orleans 1538 RTTY 50bd/400 "ryryryry... fdyfdyfdyfdy..." marker (MC)
6976 RFFE? Bordeaux 2100 ARQ-E 192/170 reported as RFFHCA Ajaccio by many, C.I. is EHQ. (FH)
6992 Russian Diplo,??? 1939 CROWD-36 tfc (MC)
6993.2 Russian Mil,??? 1607 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
7398 NHF: USN ROOSEVELT ROADS 0014 FAX 120/576 Chart - qrm fm bdcast stn. (DW) NHF: USAF AWS Roosevelt Roads, Ceiba, PTR 0000 FAX 120/576 copied various charts from 0000z to 0200z but here's the identifiable ones..0000z north polar fixed time sig wx anal "EQUATOR". 0015z north polar "18Z SAT 26TH OCT NMC SURFACE ANALYSIS"+ NOAA logo, 0045z north polar 500Mb NOGAPS type 500mb upper air temp / pressure chart. Many more copied both north polar and modified mercator w/a USA slant. (LC) (NHF is the U.S. Navy Roosevelt Roads vice USAF, & as we say every month, the location of the station sending this traffic in Puerto Rico is not 100% confirmed -LOGS)
7468 MFA Copenhagen, Dk(?) 1220 TWINPLEX Tfc in Danish(?)(PT)
7535 AXI33: Darwin Meteo, AUS 1645 FAX 120/576 tops of charts saying "SCHEDULE NOW BROADCAST IN TWO PARTS - SEE NOTICE AT 0045 UTC". (LC)
7542.7 RFTJD: Libreville 2140 ARQ-E3 192/170 (JDJ) FF msg to RFTJ Dakar. (FH)
7554.7 Unid: 2142 FSK 100bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
7573 Unid: 1931 FSK 75bd/850 UNID FSK System, revs, ACF=64 lead-in, ACF=0 tfc, revs (MC)
7579.5 MOSSAD Tel Aviv, ISR 2030, ARQ-E 288 also RTTY 100.87/340 tfc. to '6XM8' (QSX 9209 kHz) (ANEU)
7595 AOK: USN Rota, ESP 0030 FAX 120/576 "AMD"?? FSME LERT 36HR MED SFC PROG 0045 OSME LERT 36 hr sig wave height prog 0100 NOGAPS FNMOC sfc anal. (LC)
7595 USN Rota 2339 FAX sending surface pressure prognosis (DW3)
7606.7 RFHI: 1346 RTTY 100/384 ARQ-E3 FF Noumea Controle de Voie (RT2)
7606 SAM: Stockholm Sweden 1021 ARQ-SWE 100/400 Tfc in Swedish. (PT) RFTJ: Dakar Senegal 0805 ARQ-E3 192/608 Controle de Voie.(PT)
7614 RFFE: Bordeaux 2100 ARQ-E 192/170 (EHQ) to RFFHCA Ajaccio. (FH)
7616.7 MFA Cairo, EGY 1603 ARQ various msgs. to Tunis QSX 7823.7 (ANEU)
7619.7 UNID ALE-system, FNL? 0842 250bd bursts with 75 bit korr. (ANEU)
7644.2 RFQP: 0203 ARQ-E3 listed RFFVA / is RFQP de RFQP 3130143.(RT2)
7644.3 RFFV: MOD Paris, F 2351 ARQ-E3 100/425 w/Controle de Voie on C.I. "RUN". (RB)
7653.5 Unid: 0827 81-81 81bd/200 tfc (MC)
7670 Moscow Meteo? 1910 FAX 120/576 w/chart - poor (TD2)

7671.5 FDY: Orleans 2140 RTTY 50/400 RY's, Le Brick. (FH)
7674 UNID NOR-Diplo 0800 DUP-ARQ-2 125bd/850, only able to decode fragments of Norwegian txt. in char. analysis using ITA-5. (ANEU)
7675 MTN: Portsmouth Naval, UK 0930 RTTY 75/850 in contact w/unk & unheard station. (JD2)
7688 NATO Mil,??? 1954 Link-11 tfc (MC)
7693 3BT3: Bigara METEO, MAU 1535 RTTY 75/850 synops from FIMP (ANEU)
7697 UKR-UN Forces in Slavonia 0000 RTTY 50/250, msgs in the clear in 3rd shift cyrillic. signing off with: "star&ij ukra1nxsxkogo w1csxkowogo /kontingentu w sh1dn1j slawon11/polkownik oskoltk" (ANEU)
7705.7 RFTJ?: French Forces, Dakar? 0539 ARQ-E3 192/425 w/non-protege tfc. (RB)
7709.3 MKK: Royal Air Force, London 2113 VFT: 3ch of 50bd/170 Baudot, "the quick brown fox... test de mkk" (MC)
7731.2 Russian Mil,??? 1503 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
7736 Russian Diplo,??? 1946 CROWD-36 tfc (MC)
7784 KAWN?: 1410 RTTY 75/853 clear text/synoptic.(RT2)
7784.7 Unid: AFF2? Carswell AFB? 2100 RTTY 75/850 KAWN tfc, also uses 7785.0 to 2200. (FH) (Carswell closed some time ago, this is reported as being in Puerto Rico, but recent DF attempts reveal a poss S. Florida loc. -LOGS)
7785 Unid: 2200 RTTY 75/850 w/KAWN tfc, chg from 7784, // 12835 kHz. (JD2)
Unid: 2149 RTTY 75bd/850 (2 stopbit), KAWN METAR and AAXX WX for US/ Canada (MC)
7815.5 MIL Warszawa, POL 1429 RTTY 49.74Bd/500, 5FGs to unloc station (ANEU)
7823 DoSC Moskva, RUS 1650 RTTY 75/500, 5 LGs to 'DKR' on link <70060> (ANEU)
7828 UNID RUS-DoSC station 1540 CROWD36 40Bd 32-tones, PSEUDO#-encrypted bitstream (ANEU)
7828 MIL Warszawa, POL 1411 RTTY 49.81/800 5 FGs to unloc station (ANEU)
7831.5 5ST: Antananarivo 1325 ARQ-E3 48/400 (TNC) "CH DE 5ST", also at 2155. (FH)
7841.8 Chinese Diplo,??? 0829 4+4 idle (MC)
7858.5 NATO Mil,??? 1947 PSK 2400bps UNID PSK System (MC)
7870 USN ROOSEVELT ROADS (NHF) 0004 FAX 120/576 Chart (DW)
7896.7 CNM80 listed as MAP nx AA to mideast here where RFLIA is assigned (listing monitored on 13585.9) time for AA. (FH)
7910 MKK: RAF London 2340 PICCOLO w/svce msg to MUH (ML2)
7916 DGG91L2: Bonn 0920 FEC-A 96/380 DPA GG nx, off abruptly at 0930. (FH)
7927.2 Russian Mil,??? 2051 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
7929.5 Tobruk 0725 RTTY 50/350 msgs in EE to operations manager Benghazi, either Oil or mining company. (ANEU)
7946.5 DHJ51: Grengel Meteo, Germany 0658 RTTY 100bd/400 METAR WX for Germany, Latvia, Belgium ports (MC)
7957.5 MKD: Royal Air Force, Akrotiri 2059 VFT: 2ch of Piccolo-6, eng ch "de mkd plse to qsl qsl qsl kkkilo" (MC)
7957.9 MKD: Royal Air Force, Akrotiri 2100 VFT: 2ch of Piccolo-6, crypto. (MC)
7971.7 UNID: 0239 ARQ-E 96/315 idle (SS)
7971.7 RFFXIA 2100 ARQ-E 96/400 to 6 RFF & RF calls, 612 5LG's, did not use ZCZC or give circuit ID, just circuit number. (FH)
7971.7 RFFXIW 2100 ARQ-E 96/400 (XZW) or RFFXCC Favieres (XXW) to 2310 (see 15861.7 for the latter at 1200). (FH)
7977.9 MKD: Royal Air Force, Akrotiri 2147 VFT: 2ch of Piccolo-6, crypto. (MC)
7977.5 MKD: Royal Air Force, Akrotiri 2147 VFT: 2ch of Piccolo-6, eng ch "de mkd lololo have fixed the cutg??" (MC)
7980.1 Russian Mil,??? 0638 FSK 200bd/1000 UNID FSK System, sync, cont, ACF=0 (MC)
7990 Russian Mil,??? 0830 FSK 200bd/500 UNID FSK System, sync, cont, ACF=0 (MC)
7990.5 VHC: RAN, Canberra 1820 VFT: 2ch of Piccolo-6, eng ch "gfh de vhc rgrg zuj kha2 om" (MC)
7990.9 VHC: RAN, Canberra 1821 VFT: 2ch of Piccolo-6, crypto tfc (MC)
8001.7 RFHJ: French Forces, Papeete 0635 ARQ-E 96/340 Tahiti, w/Controle de Voie on C.I. HJL. (RB)
8007.5 US-INTEL near Frankfurt, D 0800 PSK UNID speed//9206.5 kHz, similar to the 108.87Bd/170Hz FSK and USB voice transmissions, the carrier

shows up on the channel long before the actual transmission starts! (ANEU)
8010.7 7RQ20: Algerian MFA, Algiers 2101 COQUELET-8 13.33bd "vci off alger", MSGs in FF to Hanoi (MC)
8015.4 Unid 2127 ARQ selcalling, off 2134. (FH)
8017.5 Unid: 1936 FSK 75bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
8023.7 Egyptian Embassy Tunis, Tunisia 1625 ARQ using ATU-80 alphabet, wkg "Alqahrh" (Cairo). (JD2)
8033 UNID KRE-Diplo 2026 RTTY 47.62/1000Hz 5FGs and msgs in romanized Korean (ANEU)
8050.2 FF DJIBOUTI [RFQP] 2307 ARQ-M2 200/400 4RC. Two channels FDM. Channel A: idling on "rq __<". Channel B:idling on "rq beta beta beta". (DW)
8053.8 Russian Mil,??? 1655 FSK 200/500 UNID FSK System,sync,cont,ACF=0 (MC)
8055.5 US-INTEL FSK-outlet 1500 UNID 108.86Bd/170 Hz FEC-system 8bit per char. unable to find parallel channel. This transmission is NOT sent via the site near Frankfurt (like 11527.5 kHz)! (ANEU)
8065.3 DOR***: Bulgarian MFA, Sofia 2121 ASCII-ARQ 300bd/500 tfc (MC)
8070 UNID UKR-MIL, UKR 0803 RTTY 50/200, crypto after ZZZZZZZZZZZZZ (ANEU)
8093.7 VCT: Grand Banks, CAN 0000 ARQ ready signal, CW ID. (FH)
8105 RFFX or to RFFX 2100 ARQ-E 184/400 to 0300, same baud rate on RFFX (XXL) to Beirut, also 8105.5. (FH)
8106.7 Egyptian MFA, Cairo 1927 ARQ ATU-80 MSGs to embassy/location "227" (MC)
8108.3 RFQP: French Forces,Djibouti 2205 ARQ-M2 200/425 w/C de V on C.I. QPF. (RB)
8108.8 RFQP: Jibuti 2115 ARQ-M2 200/400 (QPF) on Ch.A. (FH)
8149.6 Unid: 2139 FSK 109.8bd/200 UNID FSK System, sync, cont, ACF=0 (MC)
8157.3 Unid: 1433 RTTY, 75bd RYRY then CW. (JM)
8160 Unid: 2010 FEC-A 192bd/400 Opchat in FF (MC)
8170 U.S. Navy 0018 RTTY 75/850 encryption. (FH)
8192 9MR: MN Jhohor Bararu 1700 RTTY 75bd testing, 1715 5 fgs (BvR)
8221.5 WAFFA***: Pipe Laying Ops, UAE 2110 ARQ Ops Rpts headed "d e e n a" and "to: waffa" (MC)
8225 TCGG: MV Gunay-A 0535 USB calling Istanbul Radio. (DW2)
8287 UAHV TH KAPITAN KONEV 2210 ARQ LOGIN 55960 UAHN, QRU. (WT)
8297 Unid 0100 ARQ to 0200, msgs in unid lang, some EE, Scandinavian? (FH)
8321.7 Chinese Diplo,??? 2041 4+4 tfc (MC)
8326 Unid: 2041 81-81 81bd/200 tfc (MC)
8330.3 RFVI: Le Port 0250 ARQ-E3 100/400 (VII) to RFHI Noumea, see 8341.7 for QSX. (FH)
8331.5 RN United Kingdom? 2333 FAX sending wx fax chart (DW3) (sfc analysis chart for 1800z, starting at 2320z - RN London(Northwood) - LOGS)
8377.5 3EYB6 M/V KUDU 0255 ARQ W/PERS TLG. LOGIN 42577 3EYB6. 3EAW9 M/T KAIMON 1941 ARQ W/AMVER LOGIN 70454 KAIM. WSRH SS KAUAI 2111 ARQ WKG KFS W/E-MAIL. (WT)
8378 IBPQ: AGIP LIGURIA 0805 ARQ msgs to IAR. (HOOD)
8379 3FGZ3: M/V Parnaso 0540 ARQ 100,962 DWT tanker, w/AMVER/SP, login 42050 PARN. (RB)
8379.5 WLBX: M/T Lawrence H. Gianella 0130 ARQ w/unclas tlx re departed Long Beach, bound Houston, MSC contracted tanker, login 11646 GIAN. PPOA: M/V Frotabelem 0612 ARQ 11274 DWT dry cargo vsl, wkg PPR, Rio Radio w/ETA Manaus in SS. (RB) 3FYS3 LUCINDA?? 2155 ARQ W/AMVER/SP LONG BEACH TO BALBOA.(WT)
8380.5 EL_T9: M/V Pilgrim 0142 ARQ w/posn msg, passes radio authority (BE-02) to CBV, login 25177 PILGRAM. (RB)
8382.5 H2WM: M/V HEAVY METAL 1800 ARQ W/TLX. (WT)
8383 SXRY: M/V ANGELIC FAITH 0001 ARQ W/TLX IN GREEK. LOGIN 16728 SXRY. (WT)
8384.5 SXLS: M/T SPORADES 0216 ARQ W/TLX, ARR GALVESTON. LOGIN 17047 SPOR.(WT)
8385 IBJI: MT AGIP LOMBARDIA 0742 ARQ admin to Tripoli with ETA for Zuetina. login 20686 IBJI. (HOOD) P3AA3: MV Epta 1808 ARQ tlx abt eta Nola Pilot 22nd oct ship 01716 (BvR)
8385.5 C6YY BERING SEA 0615 ARQ W/BBXX. (WT)
8386 UGPA BATM KHOTIN 0310 RTTY 50/170 W/TLG'S. (WT)
8387 DUCT MV EURASIAN CHARM 2350 ARQ WKG KPH ETA COLUMBIA P/S. (WT)
8390 DVGJ M/V MORILLO 1747 ARQ TLX, LOGIN 26539 MORILO. (WT)

8391 KHRC SS MATSONIA 0203 ARQ W/TLX RE LOST CONTAINERS. (WT)
8391.5 YLBB: MV VASILIJS STRUVE 0800 ARQ admin from Km Semidjko. (HOOD)
8392.5 UNWR: TK GRIGORIY NESTERENKO 0725 RTTY 50/170 DPR rpt to Novorossiysk from Km Ryabkov (ITU now UDGB but still using UNWR). (HOOD)
8397 SHIP TH "MEHANIK KRASKOWSKY2 1305 arq 3sc tfc to Arkhangel? (DW) UEIS: TKH PIONER KARELII 0614 ARQ admin from Km Rudoya to UCE. (HOOD)
8399.5 UYUX: TKH DMITRIY POLUYAN 0639 RTTY 50/170 RYs to UUI, no joy. (HOOD) 3FMT3: TR SEAFROST 0809 RTTY 50/170 crew TGs to LYL.
8400 UVKJ: TKH VASILIY SHUKSHIN 1649 RTTY 50/170 crew TGs to USO5. (HOOD)
8401.5 SHIP UNID. 1322 RTTY 50/R/170 3sc tfc. (DW) 9HDZ5: MV MARABOU 1817 RTTY 50/170 admin from Km Semenov to UNITOR, St Petersburg via UIW. (HOOD) Ships e.g. ESGU, P3LX6 1630 RTTY 50/170 clg/wkg UIW. (JD2)
8402 Rus. Mil. 1730 81-81 81 tfc til 1800 (ANEE)
8402.7 PWCE: Caboclo (V-19) 0110 RTTY 75/850 Brazilian Navy Imperial Marinheiro-class 911 ton patrol boat, w/RY & SG's to PWF33, Natal Naval, Brazil, then "INT ZBK ZBK //// ZBZ". (RB)
8403.5 UGVJ: RTMS NOVOCHEBOKSARSK 0728 RTTY 50/170 crew TGs to UIW. (HOOD) SQPU: M/V Podlasie 2307 ARQ Polish refrigerated fish carrier, w/PP tlx via SPE, login 43315 SQPU. (RB)
8403 URRR: TKH ANDREYS UPITS 0707 RTTY 50/170 msg in EE for agents in Genoa (about Engineer Officer admitted to hospital) via USU. (HOOD)
8404.5 SHIP BMRT "KURKOWSKIJ 274" 1413 RTTY 50/R/170 3sc tfc. Long crew list?. 65 hz high of channel (DW) UUGF 1700 RTTY 50/170 clg/wkg UUI. (JD2) (TKH Shota Rustavelli -LOGS)
8405 ULTQ: TR BASKUNCHAKASKIY 0634 RTTY 50/170 admin to "TLINE RU", St Petersburg via UAT. (HOOD)
8407.5 SHIP "WASILIJ POLEQUV" 1314 RTTY 50/R/170 3sc tfc (DW) ESCP: RS HOBULAID 0653 RTTY 50/170 admin to Tallinn from Km Belusov via UIW. (HOOD) SHIP UNID 1312 RTTY 50/R/170 3sc tfc then qru (DW)
8414.5 GMDSS CHANNEL 0713 GMDSS//100/E/170 35 packets recorded in 10 hours. Bulk are intership DSC calls, abusing the purpose of channel (DW)
8415 SHIP DSC CHANNEL 0621 GMDSS No DSC packets (DW)
8422 SVT 0356 ARQ w/SITOR Marker(AM2)
8424.5 HEC 0358 ARQ w/SITOR Marker(AM2)
8429.5 IN ROME (IDR4) 0647 RTTY 75/N/850 CARB marker. qrm fm EAD sitor channel mark (DW)
8429.5 IDR4: Rome Naval, ITALY 1700 RTTY 75/850 CARB. (JD2)
8432.5 UFN: NOVOROSSIYSK RADIO 0639 ARQ tfc to TK MOSKOVSKY FESTIVAL abt agents INFLOT at Tuapse and charterers COLLINS SHIPPING, Hamburg. Using vsls new c/s UDGE (ex UOLM). (HOOD)
8453 HWN: Houilles Naval, F 2300 RTTY 75/850 test tape. (JD2)
8467.5 JJC: Tokyo R. 0844 FAX 60/576 with a Japanese news chart with "Epidemic Information" printed in large English print. (DW2)
8478 FUF Fort de France 2345 RTTY sending groups of ry/sg (DW3)
8478.5 FUF: Ft de France 2200 RTTY 75/850 test tape. (JD2)FN FORT DE FRANCE (FUF) 2301 RTTY 75/R/850 Marker "ry's sg's figs de FUF de FUF k" (DW) FUF: French Navy Fort de France 0840 RTTY 75/810 with calltape. (DW2) FUF: 0100 RTTY 75/850 Test Strip - DE FUF / SG / RY /ETC (RT2) FUF: FF Fort de France 0602 RTTY 75bd ryryryryry (BvR)
8480 Unid: 1920 RTTY 50/170 press in RR. (JD2)
8484 SHIP UNID. 2021 RTTY 50/R/170 End of qtc in 3sc (DW)
8494.1 MTI: Plymouth Naval, UK 1200 RTTY 75/340 CARB: ch.3 of VFT aggregate. (JD2)
8496.1 CNM80/G11 Rabat or Tanger at unid time, MAP nx as ann on 13585.9 at 1209. (FH)
8500 VTH4: Bombay, INDIA 1645 RTTY 50/850 "RBSL BNR RY...". (JD2)
8504 NMG: 1847 FAX sending wx maps from Belle Chase La.(DW)
8514 MOBILE RADIO (WLO) 2144 FEC Tfc list and storm warning. Use of this frequency in hurricane season 1Jun-30Nov suggests use of alternate set of frequencies has been discontinued (DW).
8528.5 EBA: SN Madrid 1705 RTTY 75bd nav wrng, 1708 s/off (BvR)
8538 FN DAKAR (6WW) 2314 RTTY 75/850 Marker "vvv de 6WW voici testing de la station six whiskey whiskey ry's sg's figs voyez le brick k's kilo". (DW) 6WW: French Navy Dakar 0830 RTTY 75/650 with calltape. (DW2) 6WW: Dakar 0140 RTTY FN RYS/SGS/1-0/ DE 6WW Le Brick testing (RT2) 6WW: Dakar Senegal 0420 RTTY 75/850 "Voici testing de la Station 6 whiskey whiskey" marker, RY's and SG's (BDS) 6WW: French Navy, Dakar, SEN 1645 RTTY 75/850 test tape. (JD2) 6WW: FN Dakar 1711

RTTY 75bd testing (BvR)
8549 UCE: Arkhangel, RUS 1645 ARQ idling w/"KYKYKY...". (JD2)
8568 FUV: Djibouti 1645 RTTY 75/850 8-1/2-bit baudot, incl parity bit; unreadable on my Code 3. (JD2)
8592.1 CCS: Chilean Navy Santiago 0805 RTTY 100/650 with msg for OZMJ regarding "zona de pesca" (Fishing zones) and a list of 60 vsls. (DW2)
8625 FUM: French Navy Papeete Tahiti 0745 RTTY 75/830 with calltape (DW2)
8625.9 GYU: Gibraltar Naval 1500 RTTY 75/200 CARB; ch.1 of VFT aggregate. (JD2)
8642.1 MGJ: Faslane Naval, Scotland 1200 RTTY 75/340 CARB; ch.3 of VFT aggregate. (JD2)
8645 UAT: Moscow, RUS 1645 FEC in RR. (JD2)
8646 FUJ: French Navy Noumea New Caledonia 0743 RTTY 75/650 w/test tape. (DW2)
8646.1 LPD: General Pacheco Radio, ARQ 2300 CW marker. (JD2)
8650 SPB: Szczecin radio 1558 FEC freq's (BvR)
8658 UNID: 0733 FAX 120/576. Appeared to be a Japanese text news chart, but with heavy QRM it was hard to be sure. (DW2)
8677 CBV: VALPARAISO 2314 FAX 120/576 First chart surface analysis started 2314z ended 2331z. Second chart 2333z to 49z. Label corrupted as previous evening. CBV: VALPARAISO 2310 FAX 120/576 First chart 2310z. Sfc analysis 1800z 2328z start of second chart. Yet again scanner (?) screws up area of label CBV: VALPARAISO 2325-59 FAX// 120/576 "Carta superficie" for 1800z. Late ? (listed 2310) or new start time? Second unlisted chart starts 2341z dated 13/1200z suggests forecast - label corrupt (DW)
8677.5 UGC: St Petersburg, RUS 0830 ARQ phasing signals w/CW ID. (JD2)
8801.7 Chinese Diplo,??? 2043 4+4 tfc (MC)
8878 N.Korean MFA, Pyongyang 2004 RTTY 50bd/850 5LGs and KK to Embassy Sanaa, opchat in CW (MC)
8991 Unid: 1603 FSK 75bd/850 UNID FSK System, revs, ACF=64 lead-in, ACF=0 tfc, revs (MC)
9036 Unid: 1442 FSK 75bd/200 UNID FSK System, sync, cont, ACF=0 (MC)
9043 5YE: Nairobi Meteo, KENYA 2000 ISB FAX on USB +1900 Hz, 100/850 RTTY on LSB -2000 Hz. (JD2)
9055.3 DOR***: Bulgarian MFA, Sofia 1821 RTTY 75bd/500 "pmo pmo pmo zry 11164" msg acks to Washington DC (MC)
9114 MTI Budapest, Hungary 1653 RTTY 50/461 RY's and ID.(PT)
9123 Unid: 1938 FSK 75bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
9192.6 5ST: Antananarivo 1350 ARQ-E3 48/390 (TPA) excellent sig, also at 1410, msg in abbrev FF to FMMZQZX (local) & to FIMP (Mauritius), prev logged on 9195.0 kHz. (FH)
9206.5 US-INTEL near Frankfurt, D 0800 PSK UNID speed//8007.5 kHz, similar to the 108.86Bd/170Hz FSK and USB voice transmissions, the carrier shows up on the channel long before the actual transmission starts! (ANEU)
9226.7 Egyptian MFA, Cairo 1941 ARQ idle in IRS mode (MC)
9259 RFGW: MFA Paris 1505 FEC-A 192bd fr mgs (BvR)
9266.9 British Mil,??? 0646 Piccolo-12, idle (MC)
9276.3 German Army,??? 1452 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
9276.9 German Army,??? 1451 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
9277.6 German Army,??? 1453 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
9295 Indian Army EASTCOM ? QTH 1130 RTTY 50/850 w/ admin msgs to VICTOR ZULU INDIA (ML2)
9319 NRK: USN Keflavik UTC? FAX 120/576 bad copy when I've been on. (LC)
9327 Russian Navy,??? 1456 36-50 50bd/200 36-50 tfc (MC)
9331.6 Russian PTT, Khazakstan 0835 VFT: 3ch of 144/200 FSK UNID System (MC)
9360 OXT: COPENHAGEN MET 1153 FAX 120/576 Ice chart, 1840 FAX 120/576 Poor chart. Can just recognize OXT icon, 1008 FAX 120/576 Ice condition chart, 1203 FAX 120/576 Ice condition chart, 1243 FAX 120/576 Ice chart 2 (DW)
9951 LSB: Centro Meteorologico Vcom., ATA - South Shetland Islands UTC? FAX have been getting the carrier but no pics. (LC)
9983.7 RFHIVDR: Vendemiaire 1800 ARQ-E3 100 w/tfc to rfviflr (floreal),

rfhjprl (praireal), rfhinvs (nivose), rflicf (ventose), rffkgml (germinal), rfhwwc (alpaci) and rfflvl (alfan) w/off-line ciphers. (ANEE)
10026.7 Egyptian Embassy Havana Cuba 2206 ARQ with 5L grps and plaintext ATU-80 msgs.(DW2)
10061.7 Egyptian MFA, Cairo 1802 FEC ATU-80 Calling Rabat (kdfykc) on 11304.7kHz (MC) Egyptian Embassy, La Paz 1914 ARQ 5LGs "from boustane lapaz to khargia cairo" (MC)
10098.5 British Mil,??? 1949 VFT: 2ch of Piccolo-6, eng ch "" (MC)
10098.9 British Mil,??? 1949 VFT: 2ch of Piccolo-6, crypto (MC)
10116.5 French Diplo? 1912 TT2300b 100bd idle (MC)
10124.9 Unid 1338 ARQ selcalling, off. (FH)
10126 Algerian MFA: 1237 COQUELET 8 tone 26.67 baud w/ tfc FF to CONSALG Lille and CONSALG Nantes.(PT)
10132.1 TNL: Brazzaville, CONGO 1900 RTTY 50/650 cct ID FSA; msgs all addressed to Sao Tome (FPST). (JD2)
10134.6 Unid: 1743 UNID 250bd/140 UNID ARQ System, ACF=75/375 (MC)
10148 MFA Warsaw 1628 POL-ARQ 100/379 Press reports in EE. (PT)
10160 Unid: 0933 81-81 81bd/200 tfc (MC)
10162 INA Baghdad, Iraq 1110 RTTY 50/390 Press reports in English.(PT)
10196 UNID RUS-Diplo 1032 CROWD36 40bd/10bd 32-tones, 5 LGs on UNID link. (ANEU)
10197.2 MFA Brussels 1730 VFT br6028 w/8 channels x ita2 100b til 1800 (ANEE)
10222.2 Russian Mil,??? 1341 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10232.2 Russian Mil,??? 1451 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10249 RN GIBRALTAR (GYU) 2109 piccolo 6 tone Continuous test tape in the clear "de GYU lolololo CIP CIP +test (x12times) qbf + string of lettershifts". Standby at 0530z then marker agn. Finally offair (DW) GYU: Royal Navy Gibraltar 0139 PICOLO-6 w/test tape. (RB) Unid: France/Italy? 0500 Piccolo 99.815bd/85hz til 0530 (ANEE) (prob RN Gibraltar - LOGS)
10250 NATO Mil,??? 2126 Link-11 tfc (MC)
10256 DOR***: Bulgarian MFA, Sofia 2003 RTTY 75bd/500 Diplomatic bulletins in Bulgarian DOR***: Bulgarian MFA, Sofia 1957 CW, "zfozfozfo pse qsy 12138 qsy12138 ok om pse zfk" (MC)
10258 V5G***: Romanian MFA, Bucharest 1811 ROU-FEC 164.5bd/400 (Bitmask=24) crypto, ID in CW (MC)
10277 Unid: 1902 81-81 81bd/200 tfc (MC)
10281 RFLIG: 0025 ARQ-E3 192/340 presumed FF Cayenne 5lg (RT2)
10300.5 HSW62: Bangkok Meteo, Thailand 1824 RTTY 50bd/1200 AAXX WX for Thailand and Philippines (MC)
10314 MFA Warsaw 1539 POL-ARQ 100/251 Tfc in Polish.(PT)10493 MFA Bucharest Rumania 1145 ROU-FEC 164/405 "Radiograma circulara".(PT)
10321.7 Chinese Diplo,??? 1342 4+4 idle (MC)
10380 Unid: 1817 FSK 110bd/170 UNID FSK System, sync, cont, ACF=0 (MC)
10428 GYU: Gibraltar 1930 PICCOLO (2 channels) // 10446. (JD2)
10428 Unid 75/847 FEC-S (RT2)
10428.5 GYU: Royal Navy, Gibraltar 1907 VFT: 2ch of Piccolo-6, eng ch "de gyu pse repeat your last pal kkilo" (MC)
10428.9 GYU: Royal Navy, Gibraltar 1907 VFT: 2ch of Piccolo-6, crypto tfc. (MC)
10446 GYU: Gibraltar 1930 PICCOLO (2 channels) // 10428. (JD2)
10446.5 GYU: Royal Navy, Gibraltar 1845 VFT: 2ch of Piccolo-6, eng ch "de gyu lololo cip cip cip kkkilo" (MC)
10446.9 GYU: Royal Navy, Gibraltar 1845 VFT: 2ch of Piccolo-6, crypto tfc. (MC)
10450 ROU-EMB Stockholm, S 0855 ROU-FEC 218.32/400 msgs in ROU (ANEU)
10471 Unid, Korean? Embassy in N. America 2100 RTTY 50/760 some msgs in Korean?, others in number code w/a few letters, on sev days a week including Sunday here, sometimes 10471.1 kHz. (FH)
10475 Russian Navy,??? 0935 36-50 50bd/250 tfc (MC)
10509.1 MFA Paris/Rome? 1730 TT2300b 100 til 1800 (ANEE)
10536 CFH: Halifax Metoc, Nova Scotia, CAN 1700 FAX 120/576 "canadian forces metoc centre, centre metoc des forces canadians" surface analysis vt 1200z 5th Nov 1996 showing north west atlantic / eastern Canada / Davis Strait /Greenland. (LC)
10569 DoSC Moskva, RUS, 0955 CROWD36 40/10 32-tones, 5LGs +op chat (ANEU)
10580 HMF46: KCNA News, Pyongyang 1548 RTTY 50bd/400 NX in EE (MC)

10600 XVN37: VNA Hanoi 1510 RTTY 50bd french nx, 1530 eng nx (BvR)
10626 RFFXL: French Forces, Beirut, Lebanon 1730 ARQ-E 184.62bd C.I. XZL, odd speed characteristic of this circuit. (JD2) 10626 RFFXL: 0500 ARQ-E 184.6 w/tfc rffxoc, rffabct, rffw, rffbbct, rffwer, rffecct w/off-line cipher message (ANEE)
10638 Unid: 1532 RS-ARQ 228.7bd/170 tfc (MC)
10674 REK4: UNID RUS-Station, RUS RTTY 50.3/500, cyrillic 5 LGs//14787 kHz, tfc to RCY (ANEU)
10701.2 German Army,??? 1904 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
10701.9 German Army,??? 1906 VFT: 3ch of 192bd/170/I FEC-100, crypto ends "%%%%%%" (MC)
10723.2 German Navy,??? 1539 VFT: 3ch of 150bd/160 FSK UNID System, sync, cont, ACF=0 (MC)
10723.9 German Navy,??? 1540 VFT: 3ch of 150bd/160 FSK UNID System, sync, cont, ACF=0 (MC)
10724.6 German Navy,??? 1540 VFT: 3ch of 150bd/160 FSK UNID System, sync, cont, ACF=0 (MC)
10757.5 MKK: Royal Air Force, London 2006 VFT: 2ch of Piccolo-6, eng ch "muh de mkk plse to qsy ft026" (MC)
10757.9 MKK: Royal Air Force, London 2007 VFT: 2ch of Piccolo-6, crypto tfc (MC)
10865 NAM: USN Norfolk, USA 1900 FAX 120/576 decent sat pic. (LC) (Cutler, Me -LOGS) 10865 NAA: USN Cutler 2000 FAX 120/576 sending NAM / USN Norfolk wx facsimile product 2000z GOES-8 sat pic of USA "1945 03NO96 21C-4 3576 43371 ECO G" nice cloudy one. (LC)
10896.2 Russian Mil,??? 0620 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
10912 Polish Embassy, Cairo 1854 POL-ARQ 100bd/250 MSGs to SNN299 marked "m:kair" (MC)
10927.5 MKD: Royal Air Force, Akrotiri 1848 VFT: 2ch of Piccolo-6, eng ch "de mkd u be 5555ers pal pse to zbz" (MC)
10927.9 MKD: Royal Air Force, Akrotiri 1847 VFT: 2ch of Piccolo-6, crypto tfc (MC)
10927 MKD: Akrotiri, CYPRUS 1930 PICCOLO (2 channels). (JD2)
10929.2 Russian Mil,??? 1159 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10991.7 RFFVAY: FF Sarajevo [fkwb] 1225 ARQ-M2 wx (BvR)
11027 Unid SOUD station 1400 RTTY 75/500 msgs prefixed "11177 70004". (JD2)
11031 G8T: Belgrade Serbia 1520 FEC-A 192/574 Tfc to P6Z USB Paris.(PT)
11038 U3H: French Emb Moscow 1310 FEC-A 192bd 5 fgs. L4N: French Emb Dakar 1422 FEC-A 192bd 5 fgs (BvR)
11080 SANA Damascus 1450 RTTY 50bd eng nx 1455 into arabic (BvR)
11122 Unid: 1718 FAX USAF AWS sending wx maps (DW)
11140 CTV71: Monsanto 0100 RTTY 75/850 foxes & RY's from RPFW to PWX. (FH)
11155 8WA11 Indian Emb Thimphu BHU 1100 RTTY 50/425 clg 8WD17 New Delhi w/QRU (ML2)
11158 Unid: 0624 RS-ARQ 240.1bd 8 tone (MC)
11181 FFTTT: STATESERCITO SIOS TRE ROMA Italy 1215 FEC sent selcal VVCS for abt 45 mins. Ctctd AAFFF(identifying himself as XXXXX) via SPE cct and sent a msg of 5LG. He then ctctd EEEEE, DIFEAMMISPEC ROMA sent short msg in Italian abt computers (PT)
11283.7 Egyptian Embassy, Kuwait 0837 ARQ ATU-80 opchat to MFA Cairo (MC)
11304.7 Egyptian Embassy, Rabat 1807 ARQ Receiving tfc from MFA on 10061.7kHz (MC)
11453 IMB3 Rome, Italy 1132 RTTY 50/848 Rome Meteo with RY's and ID.(PT)
11481.9 Unid: 0626 81-81 81bd/500 tfc (MC)
11541 Unid: 1050 FSK 75bd/180 UNID FSK System, sync, cont, ACF=0 (MC)
11627.7 6WW: Dakar 1950 ARQ-E3 192/300 (TJI) FF CdV from RFTJ to RFLI Fort de France, was 11631.8, neither listed. (FH)
12057.6 Unid: (MFA Ankara/Belgrade?) 1700 FEC-A 144 very weak til 1730 (ANEE)
12105 Unid: 0658 CIS-14 96bd/500 crypto (MC)
12106 Unid: 1123 FSK 75bd/500 UNID FSK System, followed by 600bps UNID FSK System (MC)
12111.5 Unid: 1127 FSK 75bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
12112.5 Spanish Embassy, Moscow 0719 TWINPLEX-1w 100bd/140 MSGs in SS to MFA Madrid (MC)
12137.4 ZFO***: Bulgarian Embassy, Havana 1955 RTTY 75bd/500 MSGs to MFA Sofia in Bulgarian headed "ot havana" (MC)
12150 MFA Rome Italy 0929 ARQ-E 96/413 Tfc to Ital. embassies.(PT)

12204.8 Unid: 1333 RTTY 75bd "asm zok not good pse zal 2 tks" then into unid mode 359.7/475 (BvR)
12206 Russian Diplo,??? 0700 CROWD-36 tfc (MC)
12209.8 Unid 2138 RTTY 100/400 to CW at 2140 for 2 mins, then back to 100 or higher baud RTTY. (FH)
12212.5 YZI 234: TANJUG BELGRADE, SRB 2112 RTTY 50/425 news in EE (SS)
12214 HC?????: UNHCR, Khartoum 1217 PACTOR-U 200bd/200 MSGs about refugee problem in Sudan (MC)
12219 German MOI? 0654 ARQ-E 96bd/180 crypto (MC) Unid: Mossad-BND Link? 1030 ARQ-E 96/200 on-line enciphered tfc-sample preamble: (begin) vds+zgr65 (&1050+)5 lte.....(end) **note: vds - file open, zgr - group count, & 1050 - time stamp** (ANEE)
12228 DoSC Moskva, RUS 0951 CROWD36 40Bd 32-tones, 5 LGs - link ID not copied, QSY to 12224 kHz at 10:01 UTC (ANEU)
12290 Unid: 0656 81-81 40.5bd/500 tfc (MC)
12303 MKD: Aktotiri, Cyprus 1122 PICCOLO Working MUH 45, location unk.(PT)
12326.5 'CJL': Mossad Tel Aviv, ISR 1535 ARQ-E 96/340 5 LGs to SISMI Roma ('WJI'). Transmitter site north of Tel Aviv, probably Haifa. (ANEU)
12485.5 LYCS: RUSNE (Lithuanian cargo vsl) 0722 RTTY 50/170 psn rpt from 40.35N/0955W to LYK. (HOOD)
12512.5 URCM: TKH Dobrush 1932 ARQ 28,160 DWT Ukrainian bulk carrier w/posn tlx 1618N/05947W fm master KM Orekhov via USU. (RB)
12512.5 UWVO: TKH Ratno 1740 ARQ w/admin msg from KM Solv'v. URRV: TKH Uritsk 1835 ARQ w/crew TG's to Mariupol. UYRK: TKH Viktor Talaliykhin 1902 ARQ w/crew TG's to Mariupol Rdo. (RB)
12514 N/A: TKH PIONER MOLDAVII 0735 RTTY 50/170 admin from Km Vladimirov to UCE. (ITU c/s now UCON but may still use UKDC). (HOOD)
12530.8 Unid Asian phone net.1105 USB. p/p in RTTY band (AW)
12551.5 UAWH: KAPITAN BUBNOV (AA-1837) 0715 CW clg RKLM: Arkhangelsk radio (answering on 12830.0). (HOOD)
12560.5 EVBP: TR YANTARNYY BEREG 1725 RTTY 50/170 admin from Km Guseynov to UIW. (HOOD)
12561.5 UEMP: RTMS MALTA 1727 RTTY 50/170 admin from Km Zablotskiy. (ex LYEB). UANH: BMRT SULOY 0922 RTTY 50/170 (c/s and hull MB-2645) crew TG to Murmansk. (HOOD)
12561 YLMX: MV BIRZAI 0930 RTTY 50/170 msg in EE to YLQ for "INTEJURASERVICE". (HOOD)
12562.5 UIAA: TSM OBDORSK 0925 RTTY 50/170 admin from Km Revenko to MRM SEVRYBA via UIW. (HOOD)
12562.5 UOLQ: BATM PETR SHAFRANOV 0854 RTTY 50/170 admin from Km Krupenich to UIW. (ITU c/s may now be UAUI, but used UOLQ in sign-off).
12562 ENHI: TKH Zarechensk 1641 RTTY 50/170 crew TG's to Kerch Radio. (RB)
12563.5 UFKT: TR Pioneer Volktv 1725 RTTY 50/170 w/admin TG's to Sevastopol from master KMD Bessonov. (RB)
12564 N/A: TKH ALEKSANDRE 1534 RTTY 50/170 msg in EE to UHP5 "RADIO ST PETERBURG ENNEK" giving QTO Kalamala bnd Iraklion (c/s given as XU7BE in RY tape and also in CW sign-off). (HOOD)
12564.3 UGSP: TR Ussuriyskaya Tayga 1932 RTTY 50/170 11,816 DWT reefer w/TG to Vladivostok re agent info & prosoects (VLD/VTF). (RB)
12564.5 UAVH: BMRT VIKTOR MIRONOV 0935 RTTY 50/170 crew TGs and admin to Arkhanelsk from Km Vasenin. (Vsl is ex UJLR). (HOOD)
12565 UFXI: TR NOVOROSSISKIY RABOTCHYY 0656 RTTY 15/170 admin from Km Levi for NOVOROSSIYSKRYBPROM via UGW. (HOOD)
12565.5 UWOA: ST TSEMESSKAYA BUKHTA 0716 RTTY 50/170 admin from Km Ivasko to UGW (listening 12660.5). (HOOD)
12566.5 UWCC: TKH SERGEY LAZO 0702 RTTY 50/170 admin from Km Krivpust to UUI. (HOOD)
12567 UKKY: TKH DNEPRODZERZHINSK 0711 RTTY 50/170 msg to Istanbul from Km SHEVTSOV with ETA for Mariupol. (HOOD)
12567.5 UOZO: RTMKS PORECHYE 1722 RTTY 50/170 admin from Km Loginov to UIW. (HOOD)
12567.5 UAUE: BATM MARSHAL NOVIKOV 1636 RTTY 50/170 crew TGs to UIW . (Vsl is ex LYFI). (HOOD)
12568 UCTT: ADMIRAL GOLOVKO (MA-0052) 1630 RTTY 50/170 crew TGs to UDK2. UCQS: RTMS EYSK 0722 RTTY 50/170 admin from Km Grinko to UGW. (HOOD)
12569.5 UYVB: TKH DENEB 0711 RTTY 50/170 svc msg from R/Off and admin from Km Sotnikov (eta for Taranto from China, has no telex or fax and VHF limited to 20 miles range) to UUI. (HOOD)

12571 UIUR: TKH PETR STRELKOV 0716 ARQ admin from Km Khrapko to UCE. (HOOD)
12572.5 UYTB: RTMKS Rybak-1 2000 RTTY 50/170 Ukrainian Super stern ramped fishing trawler/freezer w/crew TG tfc to Kaliningrad Radio. (RB)
12573 UWTB: TKH Akademik Guber 1934 RTTY 50/170 4,450 DWR Ro/Ro (Azov) w/RYRY, DE, to USU (Mariupol Radio) & into crew TG's (MRU/UKR.... interesting!). (RB)
12574 UDYG: RTMKS Zakhar Sorokin 2035 RTTY 50/170 w/RYRY/DE to UDK-2 (Murmansk Radio) & into admin traffic to Murmansk BVTS Sevryby using hull#/ID MA-1816. (RB)
12575 YLKK: MANGALSALA 0734 RTTY 50/170 crew TGs (all to addresses in Kaliningrad). (HOOD)
12577 GMDSS CHANNEL 1020 GMDSS//100/E/170 14 packets. Couple of test calls/responses to Lyngby. Rest intership DSC calling often giving illegal frequencies or illegal modes on valid channels (DW)
12594 IDR5: IN ROME 0642 RTTY 75/N/850 Daytime CARB " /IGJ44 /IGJ42 /IGJ43 / IDR2 /IDR3 /IDR4 /IDR5" (DW)
12601 ZSC63: CAPETOWN RADIO 1730 FEC Wx forecasts for S/African coastal and offshore waters, also at 1700 w/Navigation warnings for S/African waters (DW)
12660.5 UGW: NOVOROSSIYSK FISHERIES RADIO 0712 RTTY 50/170 admin to UGMS: KAPITAN SMELOV for Km Safonov. Same 0749 RTTY 50/170 crew TGs to UCBZ: BMRT ATOLL. (Vsl is ex Peipsi). (HOOD)
12674.3 BUENOS AIRES MET ? 2130 FAX//120/576/N/800 Keeps dropping to wait state on JVFAX (DW)
12697 USU: Mariupol radio 1500 RTTY 50 cq de use and freq's (BvR)
12714 UCE: ARKHANGELSK RADIO 0741 ARQ crew TG to 9HXH4: TKH ALEKSANDR SIBIRYAKOV. (HOOD)
12760 NMF: USCG Boston, Ma, USA 1510 FAX 120/576 note NOT 12750 //9110.(JD2)
12789.9 USCG New Orleans 1431 FAX 120/576 w/surface analysis:National Hurricane Centre Miami (TD2)
12806 USN Diego Garcia 1415 FAX 120/576 w/chart - TO55 MELANIE WRNO#7 (TD2)
12835 Unid: 1830 RTTY 75/850 w/KAWN tfc, 2-bit stop element, anyone know location for sure yet?. (JD2) KAWN?:1410 RTTY 75/853 clear text/ synoptic.(RT2)
13031.2 FN FT DE FRANCE (FUF) 1104 RTTY 75/R/850 Marker "ry's sg's figs de FUF" repeated then string of letter shifts (DW)
13068.5 C37A: Mossad 1423 ARQ-E 288bd BND link encrypted (BvR)
13210 Unid: 1439 RS-ARQ 228.5bd/170 ALIS bursts (MC)
13347.7 MFA Cairo 0900 ARQ wkg/embassies Kuwait City, Amman, til 0930 (ANEE)
13374.4 MFA Bonn 0930 RS-ARQ 226.7 wkg/embassy Tripoli til 1000 (ANEE)
13386.7 Unid: 1453 ARQ ATU-A tfc (BvR)
13387 "WJI" unk, Italy? 1455 ARQ-E 96bd October in the DTG was abbrev as "OTT". (JD2)
13426 MFA Algiers Algeria 0950 COQUELET 8 26.67 baud Tfc in French to various embassies.(PT)
13428.4 Unid, Algiers, Algeria 1510 COQ-8 some op chat in FF. (JD2)
13443 DoSC Moskva, RUS, 0940 CROWD36 40Bd/10Bd 32-tones, 5LGs, then RY+op chat in 10 Bd MFSK (ANEU)
13445 MKD: RAF Akrotiri, CYP 1200 PICC-6 2 channels, didn't say whom he was wkg. (JD2)
13486.7 Unid: 1300 TWINPLEX 100 til 1400 weak (ANEE)
13510.6 MFA Bonn 1100 RS-ARQ 228.7 w/tfc to western Europe til 1200 (ANEE)
13541 NNN0FTH 1515 ARQ w/MARS msgs. (FH) NNN0COY: 1610 PACTOR 200 baud MARS w/telegrams home.(PT)
13551.4 RFCW: Paris 1535 FEC-A 192/400 FF msg to 10 named embassies, then 5L code. (FH)
13555 W3S***: French Embassy, Islamabad 1110 FEC-A 192bd/500 5LGs to "RFGW" (MFA Paris) (MC)
13556 W3S French Emb Islamabad PAK 1220 FEC-A 192/425 w/5LG's (ML2)
13557.9 MFA Oslo 1100 TWINPLEX 100 til 1130 (ANEE)
13572.5 RFFX: Versailles 1400 ARQ-E 184(!)/400 C.I. XXL to Beirut, unusual baud rate. (FH) Unid: Fr mil [?xl] 0640 ARQ-E 184bd idle (BvR) (prob MOD Paris to FF Beirut - LOGS)
13572.2 UNID: 1309 ARQ-E 184.6/330 idle (SS)
13585.9 CNM85/X11 Rabat 1530 RTTY 50/400 MAP nx in FF, at 1235 MAP nx in EE // CNM 18255.0. (FH)
13586.0 UNID: MAP 1320 RTTY 50/386 news in EE (SS)

13665.1 6VU73: Dakar 1314 RTTY 50/720 meteo, carrying same msgs as on 19747.5
6VU79 except for different shift there. (FH)
13665.3 6VU23: Dakar, SENEGAL 1610 RTTY 50/740 wx on LSB of (about) 13667.5
kHz. (JD2)
13669.2 6VU23: Dakar, SENEGAL 1610 FAX 120/576 on USB of (about) 13667.5 kHz.
(JD2)
13820 N.Korean Diplo,??? 0849 RTTY 50bd/1000 MSGs in KK ending "-------qru
ok-------" (MC)
13822 Unid: 0850 FSK 75bd/250 UNID FSK System, sync, cont, ACF=0 (MC)
13855 OXT: Copenhagen Meteo, DNK 1320 FAX 120/576 w/STGG-EKMI ice chart
marked "chart 2", v.good. (RB) COPENHAGEN MET (OXT) 1220 FAX 120/576
800 Ice condition chart, at 1308 just audible in noise floor (DW)
13882.5 DDK6: Hamburg Meteo 1330 FAX 120/576 w/surface chart, good.(RB)
13886.7 RFFA: MOD PARIS, F 1412 ARQ-E3 192/425 idle (SS)
13894 MFA Ankara 0700 RS-ARQ 240.1 sked1 - 0700-0745, sked2 1600-1645.
(ANEE)
13907.5 Unid: 1802 PACTOR 100bd/200 UNID sub-mode, tfc (MC)
13917 Unid: Pol Emb Tripoli? 1419 POL-ARQ 100bd 5 fgs (BvR)
13930 DOR Sofia, Bulgaria 1137 RTTY 150/769 Press reports in Bulgarian.
(PT)
13940.7 Unid: 1300 ARQ-M2 200 idle til 1600 (ANEE)
13947 ROM5: Tashkent Meteo, UZB 1341 FAX 60/576 VT1800 chart, weak. (RB)
13953 MFA Paris 1045 FEC-A 192 wkg/embassies Bucharest, Moscow, Dakar til
1115 (ANEE)
13956.5 H23, unid Tunisian diplo 1658 FEC wkg "WEG". (JD2)
13956.2 Unid: 1153 FSK 75bd/200 UNID FSK System, sync, cont, ACF=0 (MC)
13963.6 RC1KIN***: ICRC, Kinshasa 1758 PACTOR-I1 200bd/200 MSGs in FF and EE
from MB1NAI ICRC Mailbox (MC)
13963.6 MB1NAI***: ICRC BBS, Nairobi 1758 PACTOR-I1 200bd/200 MSGs in FF and
EE to RC1KIN (ICRC Kinshasa) (MC)
13974.4 ICRC Geneva 1230 PACTOR 200 w/tfc ICRC Kampala til 1330 (ANEE)
13977 Unid: 1400 ARQ 5 fgs (BvR)
13984.2 Russian Mil,??? 1444 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14008 UNID RUS-NY station, RUS 1005 UNID 50/500 136 bit korr. encrypted
tfc. (ANEU)
14387.5 MFA Moscow 1515 CROWD36 40.1 tfc til 1545 (ANEE)
14402 MFA Moscow 1615 CROWD36 40.1 tfc til 1645 (ANEE)
14411 Unid: 1630 FSK 50 Unid system 50/250hz shift, til 1700 qrt (ANEE)
14445 MKK: 1715 VFT 50/310 RAF London,England foxes/rys/1-0 test strip.
(RT2)
14470.7 NNN0xxx: USNMARS, Various 1221 ARQ UNCLAS MSGs in EE marked "de cei
nnn" (MC)
14494 GYU RN Gibraltar 0850 PICCOLO w/svce msgs to unid sta,third sta
OMAN mentioned (ML2)
14496 SOUD sta 1220 RTTY 75/500 w/5LG's link ID 20076 (ML2)
14500 MFA Paris 1700 ARQ6-90 200 wkg/embassy Dakar, one 5l gp, short telex,
til 1730 (ANEE)
14517 Unid: 1224 FSK 75bd/200 UNID FSK System, sync, cont, ACF=0 (MC)
14536 BRACKNELL MET (GFL24) 0953 RTTY 75/N/400 Met traffic (DW)
14556.7 '701'+'721' UNID North African Packet net, TCD? 1345 PACKET-300.
(ANEU)
14560.3 JFY2: PETRA News, Amman 1044 RTTY 50bd/410 NX in Arabic (MC)
14573 JANA, Tripoli: 1625 RTTY 50/400 w/ w/Arabic nx items. (RB)
14663.5 MFA Bonn 1000 RS-ARQ 228.7 formerly arq-e/96 ckt (ANEE)
14679 UNID RUS-DoSC station 0939 CROWD36 40Bd 32-tones, PSEUDO#-encrypted
bitstream (ANEU)
14686 MFA Bucharest 1000 ROU-FEC 164.41 on-line encryption ending with
$$$-----3333#### sequence of repetitions, til 1015 (ANEE)
14713.5 MFA Moscow 0745 CROWD36 40.1 wkg/embassies Cen. Europe til 0815.
(ANEE)
14718.7 Japanese Consulate Penang MLA 0850 ARQ w/RY's foxes and ET(KV)RY.
(ML2)
14719 Unid: 1015 FEC qtc. OST Oostende Radio, Belgium 0800 FEC dirtlx svc
til 1600 (ANEE)
14721.6 MFA Sofia? 1000 RTTY 150 on-line encryption til 1030 (ANEE)
14732 RFVI FF Le Port REU 0920 ARQ-E 96/400 w/non protege msgs to RFVITT
Dzaoudzi MYT cct ITT (ML2)
14817 DoSC Moskva, RUS 0834 CROWD36 40Bd/10Bd 32-tones, 5 LGs to unloc

station after 11177 43323 ..... (ANEU)
14820 ILMD French Emb Islamabad PAK 0850 ARQ6-90 200/400 w/5LG's (ML2)
14844 UNID RUS-NY station, RUS 0715 UNID 50/250 272 bit korr. encrypted tfc. (ANEU)
14855 'DOR': MFA Sofia, BUL 0755 IRA-ARQ 210.2/500 tfc to unlo. embassy, s-off with multiple 73s & 88s in between the ITA-5 bitstream (ANEU)
14876.7 Egyptian Emb Islamabad PAK 1140 ARQ w/ATU-80 msgs to Cairo (ML2)
Egyptian Embassy, Islamabad 1234 ARQ ATU-80 MSGs to MFA Cairo (MC)
14912 DZFG: MFA Belgrade 1415 RTTY 75/400 w/encryption, then in the clear op chat "TKS QSP OK HR 129" & back into encrypted traffic. (RB)
14927.7 RFTJ?: 1830 ARQ-E3 192/340 w/Controle de Voie on C.I. TJD which would be Dakar to Libreville, then non-protege tfc from Marine Dipermil Paris to AIG 2133, RFFA listed here before. (RB)
14928.8 8BY: SDECE Intel SVC. 1045 CW text: 8by 8by 8by 487/455/914 vvv vvv, til 1100 8BY: SDECE Intel Svc 1345 CW text: 8by 8by 455/914/099/080 (rpts) til 1400 (ANEE)
14971.7 Egyptian Embassy, London 0945 ARQ excerpts from London newspapers translated into Arabic. (JD2)
14974 UNID RUS-NY station, RUS 1027 UNID 50/500 272 bit korr. //13422(250 Hz shift)//14960 (250 Hz shift) (ANEU)
14990.7 Unid: 1350 TWINPLEX can't read this mode, Islamabad reported here. (FH)
15016.7 RKUKGK (Havana): Egyptian Embassy, Havana, Cuba 1833 FEC w/MFMF (equivlant of RY's) JG (from) CFUW ODS 50841 (freq 14805), brief ATU-80 tfc and off w/"RKUKGK" (Havana). (RB)
Unid: 1315 ARQ, off 1320, JK says Egypt Emb Moscow here. (FH)
15043.7 Unid: Egyptian Embassy? 1715 ARQ in idle. (RB)
15044.3 Unid: Egyptian Embassy 1718 ARQ sending ATU-80 tfc "YKS YKS" (bi-bi). (RB)
15476.5 Indonesian Emb New Delhi IND 0950 ARQ w/sign off to Jakarta (ML2)
15668 DIPL***: French MFA, Paris 1114 ARQ6-90 200bd/400 idle in IRS mode. (MC)
15676.2 MFA Budapest 1545 DUP-ARQ 125 tfc w/embassy Tripoli til 1630 (ANEE)
15701.7 Egyptian Emb Bahrain BHR 1100 ARQ w/ATU-80 msgs to Cairo (ML2)
15717.7 MFA Tokyo 1500 ARQ tfc w/embassy Conakry, selcalls only (bcvc), til 1630 (ANEE)
15720.5 MFA Moscow 1430 CROWD36 40.1 prob Ottawa/Washington embassies til 1500 (ANEE)
15729 PCW1: MFA Den Haag 1420 TWINPLEX 100bd persspiegel (BvR)
15733 SOUD Station,??? 1205 RTTY 75bd/500 5LGs on link ID "30088" (MC)
15781 NHF/UNID??: USAF AWS Roosevelt Roads, PTR or UNID?? 1545 FAX 120/576 unk chart polar / USA 30N - 90N, 1559z SINPO 55533 with distinct echo "lifted index analysis 12z wed 06 nov 1996" + NOAA logo + garble. Lifted Index / K index is a pointer to air instability or turbulence me thinks. 1609z unk chart perhaps upper air / temp chart for 500mb north polar. 1631z unk chart with distinct echo perhaps upper air / temp chart for ??? mb north polar (small print garbled). (LC)
15812 Unid: 1330 unk unk/390. (FH)
15821.9 MFA Stockholm 0800 ARQ-SWE 100 wkg/embassy Tel Aviv, to Tel Aviv 0830-0900 and qtc (ANEE)
15833 V5G: MFA Bucharest, ROU 1510 ROU-FEC 164.5/400 w/circular ('circulara') tfc. (RB)
15849 DoSC Moskva, RUS 0925 CROWD36 40BD/10Bd 32-tones, 5 LGs after 11177 07039 ..... (ANEU)
15873 P6Z***: French MFA, Paris 1200 FEC-A 192bd/400 5LGs to "W3E" (Embassy Islamabad) (MC)
15897 Unid: 1207 FSK 300.3bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
15909.5 CLP: Cuban Embassy Dar-es-Salaam, TZA 1620 RTTY 50/500 wkg CLP1 in SS. (JD2)
15916.7 8WB1: Indian Embassy, Belgrade 1341 RTTY 50bd/170 5LGs to MFA New Delhi (8WD4) relayed from Moscow (MC)
15920 CFH: Canadian Forces, Halifax 1347 RTTY 75bd/850 "naws de cfh zkr f1 2822 3287 6248 8306 12401..." (MC)
15933 TAD83: TUR-EMB Tripolis, LBY 0923 FEC-A 144/850, messages to TAD, later QSY to same frequency as TAD (16908 kHz), ID as 'TRABLUS'. (ANEU)
15946.5 MFA Madrid 1600 TWINPLEX 100 wkg/embassy Kiev til 1630 (ANEE)
15969.2 Unid: 0752 ARQ idle in IRS mode (MC)

15970.5 KKN50: Washington D.C., USA 1435 CW "QSX 6/10/11/15 K". (JD2)
15991.5 Indonesian Emb Riyadh ARS 1100 SI-ARQ 96/170 5 characters w/msgs to Jakarta (ML2)
16006.7 EGI Cairo 1600 ARQ wkg/EGI station Harare, 2 'urgent' 5l tlxs, then MFA Cairo w/circular with one ATU-80 msg, til 1715 (ANEE)
16019.5 Unid: 1400 unk and off, reported as ALIS mode. (FH)
16041.7 AR4USD***: US Army MARS,??? 1325 PACKET 300bd/200 uuencoded data (MC)
AE1USA***: US Army MARS, Heidelberg 1325 PACKET 300bd/200 Uuencoded data (MC)
16109 MFA Warsaw 1030 POL-ARQ 100 wkg/embassies Sao Paulo and Brasilia, computer-computer file transfers claris' 150-152, til 1115 (ANEE)
16113 HBD22 Swiss Emb New Delhi IND 0820 ARQ w/5LG's to Hanoi VTN (ML2)
16124 'ZKD'+others: ALG-net, ALG 1115 RTTY 50.08/400 bit inversion op chat in French (mask 31), ZKD is net control (ANEU)
16135 KVM70: Honolulu Meteo, Hi 1830 FAX 120/576 w/satellite image disk, weak. (RB)
16149 UNID RUS-DoSC station, 0807 CROWD3 40Bd 32-tones, PSEUDO#-encrypted bitstream (ANEU)
16193 MFA Rome? 1530 RS-ARQ 228.7 til 1600 (ANEE)
16227.7 UNID. 1035 ARQ-E 96/400 8RC Betas (DW) Unid: 1830 ARQ-E 96/400 a regular here every day since August. (FH)
16240 UNID RUS-Diplo 1230 RTTY 75/500, repeating +071+ sequence (ANEU)
16242 N.Korean MFA, Pyongyang 1423 RTTY 50bd/1000 MSGs in KK (MC)
SOUD sta 0950 RTTY 200/500 w/5FG's link ID 00149 (ML2)
Russian Diplo,??? 1140 CROWD-36 tfc (MC)
16245 N2G French Emb San'a YEM 0930 FEC-A 192/425 w/5LG's (ML2)
16247 D7A French Emb Addis Ababa ETH 1110 FEC-A 192/425 w/5LG's (ML2)
16258.2 Russian Mil,??? 1204 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
16270 Unid: 1429 RTTY 75bd/850 crypto (MC)
16303.6 "GNA" 1744 RTTY 50/170 RY's then YLHC DE GNA followed by garbled msg in EE. (FH)
16322 ROU-EMB Tel Aviv, ISR 0000 ROU-FEC 218.32/400, tfc. to in ROU Bucharest (ANEU)
16324.9 Romanian Embassy, Amman 1223 ROU-FEC 218.3bd/400 MSGs in RR to MFA Bucharest (MC)
16351.7 PAK-EMB Ankara, TUR 1130 TWINPLEX 100 5 LGs to Islamabad (ANEU)
16357.1 CLP8: Conakry 1350 RTTY 50/470 SS msgs to other Cuban Embassies in Africa. (FH)
16386.7 PAK-EMB Algiers, ALG 1246 TWINPLEX 100 msgs. to Islamabad in EE on current situation in Mali (ANEU)
16626.7 Cairo MFA or Egypt Emb in Angola 1641 ARQ new AA/EE in discussion re health contract for Port Amboim & Pinda (sealed bids). (FH)
16685.5 UNSW: TKH Kapitan Bukmakin 1540 ARQ w/tlx re discharge of cargo report, login 66191 UNSW. (RB)
16688 EQPX: MV Iran Ghodousi 1330 ARQ w/posn (TD2)
16692 UYTI: MV Rybinsk 1000 ARQ w/eta Beira logoff 67863 UYTI (TD2)
16697.5 MV Kapitan Leontiy Borisenko 1324 ARQ w/tfc for Odessa (TD2)
16698.5 OYQU2:MV Maersk Logger 1430 ARQ w/tfc for Singapore logoff 85884 OYQU2 (TD2)
16699.5 LAKW2 M/V SWAN RIVER 2008 ARQ W/TLX LOGIN 26557 SWARIV. (WT)
16705 WCJY: MV Export Patriot 1539 ARQ ship 10816 sc xvsv co/ch WLO 16828 (BvR) (see 16828 - LOGS)
16713.5 3ELQ9 M/V CULUMBINE 2200 ARQ W/TLX LOGIN 42971 JSLY (WT)
16786 "ICU" unid vsl 1830 FEC w/EE Mainila nx relayed by DZX to N. America vy satellite & retransmitted by this station "DE ICU/ICU AT UR SVC FM AL", God bless us all in a safe voyage. At 1400 next day repeated. (FH)
16786.5 UHRN: KHRUSTALNYY BEREG 1015 RTTY 50/170 long msg to Vladivostok about defects in Nav/Comms gear. (HOOD)
16787 UDZV: TSM 8359 (Osinowka?) 0920 RTTY 50/170 w/crew tgms (TD2)
16791.5 Unid vsl 1415 FEC w/relay of EE Mainila nx, received by satellite to ship, then 'END OF PX DE KAYDO (ASCO BOY) BACK TO CENTRO 73". (FH)
16797.5 UGMS: RTMS Kapitan Smelow (Kmd Gridnew) 0930 RTTY 50/170 w/catch totals. UFXI: RTMS Novorossivskiy Rabochiy 0900 RTTY 50/170 w/eta's Lome and Port Harcourt (TD2)
16800.5 UKFK: MV Anatoliy Lunacharskiy w/eta Jeddah for bunkers (TD2)
16800 Ship Southern Cross 1355 FEC w/relay of EE Mainila nx, ends at 1404, "BACK TO CENTRO". (FH)

16801 UTIZ: TKH Novogorod 1318 ARQ w/crew TG's. (RB)
16802 UUUB: RKTS Marshal Sudets 1653 RTTY 50/170 w/admin TG from master KMD Achauanov. UTSW: RTMKS Kapitan Orlikova 1709 RTTY 50/170 w/RY's & "Dogisv", into crew TG's to Ilichevsk. (RB)
16803.5 EMET: Unid 1627 RTTY 50/170 w/crew TG's, off w/73 DE EMET, no name seen in tfc sent. UUPP: RTMS Biosfera 1635 RTTY 50/170 w/RYRY/DE to URL, & into admin TG's from vsls radio op "RM" marked priority. (RB)
16804.5 GMDSS CHANNEL 0947 GMDSS 100/170 No DSC packets (DW)
16806.5 NMC: CAMSPAC Point Reyes, Ca, USA 0530 FEC Typhoon warning + the following: THE RECENT UPGRADE OF THE GUAM REMOTE EQUIPMENT IS NOW COMPLETE. MARINERS SHOULD NOTE THAT ALTHOUGH THE DUAL SITOR CW SIGNAL HAS CHANGED FROM NMC TO NRV, THE SELCALL AND ALL OTHER OPERATIONS REMAIN UNCHANGED. QUESTIONS OR CONCERNS MAY BE ADDRESSED TO U.S. COAST GUARD CAMSPAC SELCALL 1096, MID 003669990. (MS4)
16810.5 FFT: St Lys 0905 FEC w/instrs for pp's (TD2)
16828 WLO: Mobile radio 1632 ARQ tlx tfc to WCJY (BvR) (see 16705 - LOGS)
16908 TAD: MFA Ankara, TUR 0925 FEC-A 144/850 op chat to TAD83 (ANEU)
16927 UIW: KALININGRAD RADIO 1327 RTTY 50/170 msg to UFZJ: RTMS AZIMUT for Km Marchenko. (HOOD)
17141.6 RIO DE JANEIRO NAVAL (PWZ) 1820 FAX//120/576/N/800 Late start? Sea level water temperature (c) (DW)
17141.6 USU: MARIUPOL RADIO 1205 RTTY 50/170 Transmission of blind tfc in 3sc then tfc in cw then indicates "qsx 480/6277.5 /8366,5/ 12550,5/ 22280" (DW)
17142 PWZ: RIO DE JANEIRO NAVAL 1745 FAX 120/576 Starts w/short test chart w/possible naval insig. Two charts first w/Brazilian coast & isobars over S Atlantic. Large letters but poor copy. Fading at end. 1757 FAX 120/576 Weak noisy pix but better than last three days. Freq -300hz ? suggests erratic freq. Second chart sea level pressure chart at 1809z (DW)
17148.3 NMG: USCG New Orleans, 2000 FAX 120/576 East Pacific and Western USA ice / unk chart with loads of arrows and large explanatory panel on bottom left. QSL Heaven!! (LC)
17425.8 German INTEL, D 1308 VFT 3 x FEC-A-96/85Hz, 5 LGs to UNID station (ANEU)
17441.6 NAIROBI MET (5YE) 0700 RTTY 100/850 Met traffic (DW) 5YE: Nairobi 1840 RTTY 100/826 Meteo 5NG presumed synoptic wx.(RT2)
17443.6 5YE: Nairobi Meteo, KENYA 1030 ISB FAX on USB +1900 Hz; 100/850 RTTY on LSB -2000 Hz. (JD2)
17445.5 NAIROBI MET (5YE) 0704 FAX 120/576 Regional area forecast for 3/1800z (DW) 5YE: Nairobi 1855 FAX 120/576 Analysis of Indian Ocean. (RT2)
17487 Russian Diplo,??? 1142 CROWD-36 tfc (MC)
17510 OXT: COPENHAGEN MET 1335 FAX 120/576 Weak rhythmic beat and dead zone printing (DW)
17550.9 RFTJ: Dakar, SENEGAL 1100 ARQ-E3 192bd C.I. AFL, wkg "Provence". (JD2)
17961.7 MFA Cairo MOI 1200 ARQ circulars til 1245 (ANEE)
18016.7 MFA Cairo MOI 1500 ARQ wkg/embassy Kinshasa w/new sked til 1600. (ANEE)
18040.5 TCY4: AANews, Ankara 1254 RTTY 50bd/1100 NX in Turkish (MC)
18042 MSF Mazar Afghanistan 1300 ARQ tfc w/Brussels, file transfers til 1330 (ANEE)
18053.6 MFA Cairo 1100 ARQ wkg/unid embassy til 1145 (ANEE)
18092.1 Polish Diplo,??? 1104 POL-ARQ 100bd/250 ended "vy tks pa gb sk @@". (MC)
18107 Unid: 1545 FSK 50/250 CIS system, unid user (ANEE)
18108.3 Unid: Austria 1300 PACTOR 200 > germany link, company/org mailbox service? (ANEE)
18136.7 MFA Cairo 1130 ARQ wkg/embassy Nairobi til 1200 (ANEE)
18150.5 MFA Moscow 1330 CROWD36 40.1 til 1415. MFA Moscow 0930 CROWD36 40.1 til 1415 (ANEE)
18162.5 Unid: 1106 PSK 1800bps UNID PSK System, short bursts of data (MC)
18211.7 MFA Cairo 1215 ARQ wkg/embassy Abu Dhabi til 1300 (ANEE)
18252 Cairo Meteo, EGY 0820 RTTY 100/800 synoptic wx reports (ANEU)
18255 CNM85 Rabat or Tanger 1530 RTTY 50/400 & again at 1610 FF MAP nx // CNM85 13585.9. (FH)
18268 MFA Berne 1000 ARQ tfc w/embassy Pretoria, huge 5l grp messages, til

1130 (ANEE)
18269 MFA Berne? 1345 ARQ 5l gps, very weak, til 1445 (ANEE)
18273 CLP1: Havana 1458 RTTY 50/434 EE nx then repeat in SS. (FH)
18300 MFA Prague 1100 RTTY 110 wkg/embassies Beirut, Tunis, Accra w/telexes and press clippings (ANEE)
18303 Czech Intel SVC 1600 USB #s bdcst til 1630 (ANEE)
18303.2 OLX MOI Prague UTC? CW also 18303.0 calling unid station poss -hsi- (ANEE)
18303.8 MFA Rabat 1100 CW tfc w/unid european Embassy, 246 grp 5f msg, til 1115. (ANEE)
18319 MFA Bratislava 1130 RTTY 100 w/tfc embassies former yugoslavia, telex abt krajina and qrt til 1230 (ANEE)
18332 DoSC Moskva, RUS 0814 RTTY 75/500, 5 LGs on link <10042> (ANEU)
18343 MFA Lisbon 1115 ARQ tfc w/embassy Kinshasa, telexes, 5l tfc and circuit testing til 1245 (ANEE)
18347 DoSC Moskva, RUS 1030 CROWD36 40Bd/10Bd 32-tones, 5LGs after 11177 00096 .... (ANEU)
18411.5 MFA Jakarta 1230 FEC-S 96 circular deplu press service til 1245. (ANEE)
18451.5 Indonesian Emb Manila PHL 0850 ARQ w/msgs to Jakarta (ML2)
18454.8 Unid: 1401 RTTY 75/850 w/online encryption. (RB)
18493.5 Unid: 1144 FSK 100bd/850 UNID FSK System, sync, cont, ACF=0 (MC)
18521.9 Unid: 1230 UNID 54.127bd/500 hz prob CIS synchronous data stream system testing pattern (ANEE)
18529.3 MFA Algiers 1400 COQUELET-8 26.67bd also 53.3bd circuit tests till 1530. (ANEE)
18552 MFA Bucharest, Romania 1159 ROU-FEC 164/450 "CIRCULARA" in Romanian. (PT)
18672.1 CLP1: Havana 1430 RTTY 50/480 SS to Embacuba Angola. (FH)
18762 V5G(?): 1156 ROU-FEC 164/416 Tfc in Romanian either to or from V5G.(PT)
18801.5 UNID Indon.-DIPLO 1035 RTTY 50/360 5 LGs from DEPLU Jakarta to Bonn, Budapest and later to all Indonesian embassies. ID as 'DEPLU KECUALI'. (ANEU)
19031.7 MFA Islamabad 1230 ARQ wkg/all European, middle eastern and African missions w/lengthy telexes from prime minister's office detailing ministers designated to OIC countries. (ANEE)
19101.7 RFLI?: French Forces, Fort de France, Martinique? 1346 ARQ-M2 200/425 idling, this was RFLI in ARQ-E3 192/425. (RB)
19141.5 Algerian Diplo,??? 1115 COQUELET-8 26.7bd crypto (MC)
19181.7 MFA Lisbon 1530 ARQ wkg/embassy Kinshasa w/telexes til 1730 (ANEE)
19216.7 RFLI: 1300 ARQ-E3 96/370 idle presumed.(RT2)
19226.4 MFA Bonn 1330 RS-ARQ 228.7 tfc w/embassy Pretoria til 1430 (ANEE)
19230.5 MFA Moscow 1345 CROWD36 50.125 til 1430, speed variant system. MFA Moscow 1200 CROWD36 40.1 tfc til 1245 (ANEE) British Mil,??? 1117 Piccolo-12 crypto (MC)
19354 DoSC Moskva, RUS 0814 RTTY 75/500 5 LGs to 'RPO' on link <80038>. (ANEU)
19400 MFA Algiers 1030 COQUELET-8 13.33 test tape loop, til 1100 (ANEE)
19412 Unid 1030 RTTY 75 qtc (ANEE)
19532.6 Unid: 1615 FEC-A 96/100. 5L groups the last message was 19 pages long! Signal was around S5/6 in Toronto. Went off air at 1643 without ID (ES)
19567.7 MFA CAIRO 1329 ARQ Tfc in ATU80 Arabic to Algerian embassy. Constant space between bursts (DW)
19642 N2G: 1509 FEC-A 192/360 Unid location Several 5 LG were passed plus some operator chat in French. Can anyone identify N2G, please? (ES)
19680 3MA24: CNA Taipei, TWN 0900 CW + FAX // 15878 // 13766 QRA DE 3MA36/..... (ANEU)
19747.5 6VU79: Dakar, SENEGAL 1610 RTTY 50/400 wx on LSB of 19750 kHz. (JD2)
19751.8 6VU79: Dakar, SENEGAL 1610 FAX 120/576 on USB of 19750 kHz, FAX signal was unstable. (JD2)
19807.9 LJA30: Norwegian MFA, Oslo 1726 TWINPLEX-1w 100bd/400 MSGs in NN to Embassy Addis Ababa (MC)
19853 V5G: MFA BUCHAREST 1109 ROU-FEC 164/400 Tfc in Romanian (press summary) Bit inversion mask 24.Signed off with "hr qru nw qrx tmw". (DW)
19860 RN FASLANE (MGJ) 1133 RTTY 75/N/850 CARB (DW)

19868 MFA Rome 1400 RS-ARQ 226.8 also 230.7, tfc w/europe? til 1500 230.7 baud - idle sequence, 226.8 baud chatter mode (ANEE)
20036.7 MFA Cairo 1400 ARQ tfc w/embassy Dakar, til 1500, financial data. (ANEE)
20404.9 Unid: Polish 1500 FEC poss link to austria quotes currency exchange rates, til 1530 (ANEE)
20975.8 MFA Havana 1445 RTTY 75 tfc w/embassies Phnomh Penh and Hanoi till 1530 5f tfc (ANEE)
20981.8 MFA Rome 1530 ARQ tfc w/African embassy? op chatter only till 1545. (ANEE)
22537 FUF: Ft de France 1820 RTTY 75/850 strong RY's. (FH)
22664 FUM: Papeete 1825 RTTY 75/850 strong RY's. (FH)
22678.6 FFP91?: Ft de France 1827 RTTY 100/850 strong RY's. (FH)

=MARITIME=

1627.5 PBXG: GV Rotterdam 1502 USB clg Dutch CG center (BvR)
1758 LZG: Farsund Radio 0434 USB w/gale warning. (BvR)
2182 Ferry Ankara 1744 USB clg Turks (Istanbul) radio. EJM: Malinhead radio 0433 USB ann nav wrng. LZG: Farsund Radio 0433 USB ann 1758 (see 1758khz - LOGS) DAN: Nordeich radio 0500 USB ann nav wrng. OFH: Mariehamm radio 0503 USB radio ann. WQVY: MV Fidelio 17.10 USB clg Brest radio, no USB reply then comms with Lands End radio abt eta Pilot could not contact pilot on vhf 16. La Coruna radio 1733 ann tfc lst on 1698. MV Grampiam Eagle 1805 USB clg Stonehaven radio. GND: Stonehaven radio 1824 USB w/GIAJ qsy chnl I (BvR)
2204 ORJH: Belgian Navy vessel Godetia 1647 USB clg Noordwijk radio for radio check (BvR)
2357.5 OUA: DM Stevns 1815 CW mgs(BvR)
2670 Miss Verde May 0014 USB wkg US Coast Guard Group Cape May re flare sighting.(PS3)
4071 GBPP: Union St Argus 0412 USB concluding R/T tfc to UK from WOM. (RB)
4092 LAMU4: M/S Monarch of the Seas 0220 USB w/conclusion of R/T tfc w/WOO using the shortened "Monarch" for R/T tfc. (RB)
4119 N/A: Launch 356 0422 USB (or sounded like) concluding R/T tfc w/WLO Mobile Radio (on 4411). (RB)
4146 ZLM: Taupo radio NZ 0700 USB long weather bx for ships in area (AW)
4244 PPR: RIO DE JANEIRO RADIO 2146 CW CQ/ID marker. (HOOD)
4253 TAH: Istanbul radio 1738 CW cq (BvR)
4253.5 HZG: Dammam radio 1723 CW cq de qsx (BvR)
4265 USU: Mariupol radio 1715 CW radio mgs (BvR)
4271 OFJ: Helsinki radio 1829 CW wx (BvR)
4275 HPP: Panama radio 0557 CW vvv cq de hpp (BvR)
4295 SXA 34: GN Piraeus 1733 CW vvv de (BvR)
4331 4XZ: IN Haifa 1726 CW vvv (BvR)
4387 WOO: 0200 USB re tfc list & announcement ship "direct dial" availability (station/channel): WOM:423/805/1230/1609, WOO: 422/826/1228/1631, KMI:470/814/1229/1616 (KW2). (Refer to Nautical News column this issue for article on Autolink RT - LOGS)
4426 HPP: Panama Intelmar Radio, PAN 0625 USB wkg M/V Cape Kennedy, P3ML3, ID's in phonetics "Hotel Papa Papa". (RB)
4462 CGDG: CSS Hudson 0238 USB Canadian Scientific/Survey ship, wkg CGTF, CCGS Terry Fox, both vsls in Labrador Sea. (RB) CGDM: Chebucto 0145 USB Canadian fishing patrol vsl, wkg CGTF, CCGS Terry Fox. (RB)
4646 Unid: 0225 USB fisherman net, they said that they were in the bay. They are also out of band!!!(AM3)
5555 Queensland fishing boat 1136 USB (SB)
5688 Unid: 0430 USB African-accent OM/EE with shipping information (BDS)
6322.5 VRX: HONGKONG RADIO 2320 CW Marker "VRX" and tuning burst (DW)
6357 SAA: KARLSKRONA RADIO 0713 CW CQ/freqs and tfc list (for ULJG: TK VOLGONEFT 245 and ULHT: TK VOLGONEFT 238 (both sea/river tankers).(HOOD)
6383 6VA4: DAKAR RADIO 2207 CW Wx in French in slow shaky CW followed by MAFOR (DW)
6400 UON: Baku radio 1827 CW mgs to 4jdr (BvR)
6504 HPP: Panama Intelmar Radio, PAN 0629 USB clg M/V Cape Kennedy, P3ML3, ID's in phonetics "Hotel Papa Papa". (RB)
7184 KFS: San Francisco 1820 CW 27 wpm wheel tape QSX 4/6/8/12/16/22 MHZ.(RT2)

7335 FDC 0316 CW w/CW Marker(AM2)
8225 TCGG: MV Gunay-A 0535 USB calling Istanbul Radio. (DW2)
8240 Unid RN Warship 2355 USB running a pp for one of the crew members, The radio OP was female. Vessel's name was one syllable.Did anyone else catch who this was? (JP)
8241 ULFI: UNID SHIP 1832 CW Calls twice "RUF9 de ULFI" (DW)
8243 "Daria Decosta" 1035 USB clg UKU: Nakhodhka radio (AW)
8279 ENCU: TKH VOLGO-DON 5043 0803 USB wkg OHG for pp to Nizhniy Novgorod. UYQQ: TKH VOLZHSKIY 37 0754 USB Russian sea/river cargo vsl clg OHG for QRY for pp. (HOOD)
8285 3FOA5: M/S Inspiration 0307 USB cruiseship concluding R/T tfc w/WOM. (RB)
8294 WBN3011: Tug pilot 2057 USB clg WGW, San Juan, negative contact. (MF2)
8354.5 UWQZ: TKH TOYVO ANTIKAYNEN 1740 CW admin from Km Chernatyy to UUI. (HOOD)
8369.5 4LAN: Unknown vessel 0733 CW clg several times to UHK Batumi Radio. First call heard in this series for Republic of Georgia. (HOOD)
8372 4JGB: TK KHEZER 0711 CW msg to TAH. Vsl is ex HAZAR. (HOOD)
8400 Ships, e.g. V3SO6 1600 CW clg/wkg UWH. (JD2)
8440 VCS: Halifax CG, CAN 0700 CW "transmissions from this station cease 30th Sept". (JD2)
8440.6 UAT: Moscow, RUS 0730 CW marker. (JD2)
8442.3 TCR: Istanbul, TUR 1800 CW marker. (JD2)
8445.5 WLO: Mobile, Al 0730 CW marker. (JD2)
8448 A9M: Bahrain, Bahrain 1700 CW marker. (JD2)
8450 RUF9: Krasnodar, RUS? 1615 CW marker. (JD2)
8454 A9M: Bahrain, Bahrain 1700 CW different transmission than 8448 (on air at same time).(JD2)
8457 OFJ: Helsinki, Finland 1715 CW marker. (JD2) OFJ82: Helsinki Radio 2203 CW Marker "cq de OFJ qsx 12 mhz k" with band change each pass (DW)
8458 XSQ: Guangzhou, CHN 1600 CW marker. (JD2)
8459 YQI4: Constanta, ROU 1715 CW marker. (JD2)
8460.2 PPJ: JUNCAO RADIO 2214 CW Marker "vvv de PPJ qsx 4 6 8 12 16 mhz k"(DW) PPJ: Juncao Radio, BRAZIL 2300 CW marker. (JD2)
8466 UIW: Kaliningrad, RUS 1800 CW marker. (JD2)
8469 D4A: Sao Vincente, Cape Verde 1830 CW marker.(JD2) D4A: SAO VINCENTE DE C.VERDE (D4A) 2138 CW Marker "cq de D4A tfc list qsw 8 mhz qru? k" (DW)
8471.6 SUP: Port Said, EGYPT 1400 CW marker. (JD2)
8472 WLO: MOBILE RADIO 2237 CW Marker "vvv de WLO obs? amvers? qsx 4 6 8 12 mhz" - spurious frequency or new allocation - working ships - noted transmission on two different receivers (DW) WLO: Mobile, Al, USA 0700 CW marker. (JD2)
8473.5 A7D: Doha, QATAR 1645 CW marker.(JD2) A7D: DOHA RADIO 2259 CW Marker "de A7D" (DW)
8473 HLG: Seoul, S. Korea 0730 CW marker. (JD2)
8474 JYO: Aqaba, JORDAN 0730 CW marker. (JD2)
8476 9VG56: Singapore 1630 CW marker. (JD2)
8480 HZY: Ras Tannurah, Saudi Arabia 1630 CW wx in EE. (JD2)
8482 SPH41: GDYNIA RADIO 2305 CW Marker "de SPH41/61 qsx 8/12 mhz ch 3 6 and 4184 khz" (DW) SPH: Gdynia, POL 1400 CW "SPH41/61". (JD2)
8483.5 DAN: Norddeich, GER 1400 CW marker, this station has now ceased all HF activity. (JD2)
8484 HLF: Seoul R. 0837 CW with CQ mkr.(DW2) HLF: Seoul, S. Korea 1600 CW marker. (JD2)
8484.5 HZG: Damman Saudia Arabia 1455 CW marker (MS4) HZG: DAMMAN RADIO 2307 CW Marker "de HZG qsx ch 3/4/9" (DW) HZG: Damman, Saudi Arabia 1645 CW wx in EE. (JD2)
8487 VID: Darwin, AUS 0730 CW marker. (JD2)
8488 ZRX: South Africa 1320 CW marker (MS4) ZRX: unid S. Africa 1630 CW "CQ DE ZRX QSX 2/3/4/5" (does this mean ch.2,3, etc?) (JD2) (usually refers to known mHz frequencies - here: 4/6/8/12 mhz. Additionally, 6/7 are 16/22 mhz. - LOGS)
8490 AQP6: Karachi Naval, PAK 1645 CW marker, freq vary variable. (JD2)
8492 PPR: Rio de Janeiro, BRAZIL 2345 CW marker. (JD2)
8493 TBA: Ankara Naval, TUR 1800 CW "T13A TBA 2/3/4". (JD2)

8496 CLA: Havana, CUBA 2200 CW marker. (JD2)
8502 PPL: Belem, BRAZIL 2215 CW marker. XSG: Shanghai, CHN 1400 CW mkr.(JD2)
8503 UWH: unid, CIS 1600 CW marker. (JD2)
8505 Unid: 1700 CW msgs to Russian ships from "SPB", St Petersburg?.(JD2) (this is UCW/RJFY: St Petersburg Radio (N.W. Shipping Co) Russia -LOGS)
8506 XSX: Chi-lung, TAIWAN 1500 CW marker. (JD2)
8507.5 UBB4: unid, CIS 1715 CW marker. (JD2)
8510 FFS4: St Lys, F 1300 CW marker. (JD2)
8511 XSW2: Taichung, CHN 1415 CW marker. (JD2)
8514 WLO: Mobile, Al, USA 0700 CW mkr. XSQ: Guangzhou, CHN 1715 CW mkr. (JD2)
8515 5AT: Tripoli, LIBYA 1300 CW marker. (JD2)
8520 UUI: Odessa, UKR 1600 CW marker. PPO: Olinda, BRAZIL 2300 CW mkr. (JD2)
8521 VIP: Perth, AUS 1645 CW marker. (JD2)
8521.1 4XML, unid 1500 CW "BFR7 DE 4XML", callsigns do not chg from day to day. (JD2)
8522 CBV: Playa Ancha, CHILE 2000 CW marker. 9WW3: Kuching, Sarawak, Malaysia 1700 CW marker. (JD2)
8522.5 FFL4: St Lys, F 1200 CW marker. (JD2)
8525 WNU33: Slidell, La, USA 2300 CW marker. (JD2)
8530 9VG25: Singapore 1800 CW marker. UJE: Moscow, RUS 1700 CW marker. (JD2)
8532 LZW: Varna, BUL 1200 CW marker. (JD2)
8534 WLO: MOBILE RADIO 2245 CW. Marker "de WLO obs? amvers? qsx 4 6 8 12 16 22 mhz". Working C6TV.(DW) WLO: Mobile, Al, USA 2300 CW mkr.(JD2)
8539 VRX35: Hong Kong 1700 CW marker. (JD2)
8540 LGB: Rogaland, NOR 1200 CW "LGB TLX" probably spurious. (JD2) USU: Mariupol, UKR 1730 CW calls 4KF: "QSS 3237.5 6355 8540 12697 17141.6". (JD2)
8541 LYL: Klapeda, Lithuania 1500 CW marker. (JD2)
8542 PKX: Jakarta, Indonesia 1700 CW marker. (JD2)
8550 FFT4: St Lys, F 2045 CW wx & nav warnings. (JD2)
8555.5 UIW: Kaliningrad, RUS 0800 CW marker. (JD2)
8557.4 KFS: Palo Alto, Ca, USA 0630 CW marker. (JD2)
8557 SPE41: Szczecin, POL 1200 CW "SPE 41/81". (JD2)
8559.5 GKB: Portishead R. 0826 CW with ch mkr. (DW2) GKB: Portishead, UK 1200 CW marker. (JD2)
8561 TAH: Istanbul, TUR 1800 CW marker. (JD2)
8565 D3E51: LUANDA RADIO 2208 CW Marker starts " cq de D3E52 " but rest corrupt (DW). D3E51: Luanda, ANGOLA 1800 CW marker. (JD2)
8570 UBO3: PETROZAVODSK RADIO 1244 CW tfc to UDCK: VOLGO-BALT 216 (ex EVVC). Same at 0619 CW wkg UIVJ: TKH LADVA (ex VOLGO-DON 5101). (HOOD) WNU43: Slidell, La, USA 2300 CW marker. (JD2)
8571 JNA: Tokyo Japan 1510 CW marker (MS4) UFN: Novorossiysk, RUS 1900 CW marker. (JD2) JNA: Tokyo, JAPAN 1830 CW marker. (JD2) JNA: JN Tokyo 1735 CW de jna (BvR)
8572 CLA Habana R. 0013 CW sending rx/tx freqs. (DW3)
8573 CLA: Havana, CUBA 2300 CW marker. (JD2)
8574 LGB: Rogaland, NOR 1200 CW marker. (JD2)
8577 HLO: Seoul, S. Korea 1730 CW marker. (JD2)
8578.4 SUH: Alexandria, EGYPT 1630 CW marker. (JD2)
8580 RKLM: Arkhangel, RUS 1330 CW "4LY DE RKLM QSX 8367.5 12551.5 K". (JD2)
8580.2 XSN: Ningbo, CHN 0850 CW marker. (JD2)
8584 VRX36: Hong Kong 1800 CW marker. (JD2)
8584.2 CLA: Havana, CUBA 2300 CW marker. (JD2)
8586 WCC: Chatham, Ma, USA 2245 CW marker. (JD2) WCC: Chatham rado 1842 CW de wcc qsx (BvR)
8589 HPP: Panama Intelmar 2300 CW marker. (JD2)
8590.4 XVS: Ho Chi Minh-Ville, VNM 1700 CW marker. (JD2)
8593 UUI: Odessa, UKR 2300 CW marker. (JD2)
8598 OXZ: Lyngby, DEN 1200 CW marker. (JD2)
8600 XSV: Tianjin China 1515 CW marker (MS4) XSV: Tianjin, CHN 1630 CW marker, frequency variable. (JD2) XSV: Tianjin radio 1719 CW cq. (BvR)

8602 CWA: Cerrito/Punta Carretas, URU 2300 CW marker. (JD2)
8604.4 DZJ: Bulacan, PHL 1630 CW marker. (JD2)
8607 USU: Mariupol, UKR 2000 CW marker. (JD2) VIM: Melbourne R. 0748 CW with VVV/CQ mkr. (DW2) VIM: Melbourne, AUS 0800 CW marker. (JD2)
8609.5 9VG73: Singapore 1630 CW mkr. (JD2) 9VG73: Singapore 1420 CW mkr(MS4)
8610 UCE: Arkhangel, RUS 1630 CW marker. (JD2)
8611.5 TAH: Istanbul, TUR 2300 CW marker. (JD2) TAH: Istanbul radio 1840 CW cq (BvR)
8614 URL: Sevastopol, UKR 1900 CW marker. (JD2)
8616.5 URK9: unid, CIS 1400 CW "QSS 8616.5/12835/17177"; tfc list 1403 on all 3 freqs. (JD2)
8619 TAH 0400 CW w/CW Traffic List(AM2) VRX: Hong Kong 1800 CW marker. (JD2)
8620 USU: Mariupol, UKR 1330 CW marker. (JD2)
8622 PCH41: Scheveningen, Netherlands 1200 CW marker. (JD2)
8623 5BA: Nicosia radio 1752 CW cq (BvR)
5BA: Cyprus (Nicosia), CYP 0800 CW marker. (JD2)
8624 XSQ: Guangzhou, CHN 1500 CW marker. (JD2)
8630 WCC: Chatham, Ma, USA 1630 CW marker. (JD2)
8632 XSW: Kaohsiung, TAIWAN 1632 CW marker. (JD2)
8634 PPR: RIO DE JANEIRO RADIO 2156 CW Tfc in English to unid ship (DW)
PPR: Rio de Janeiro, BRAZIL 2300 CW marker. (JD2)
8635 UTQ7: Kiev, UKR 1730 CW marker. (JD2)
8636 HLW: Seoul, S. Korea 1700 CW marker. (JD2)
8638.5 DAM: Norddeich, GER 1200 CW marker, this station has now ceased all HF activity. (JD2)
8643.5 UUI: Odessa, UKR 1400 CW marker. (JD2)
8646.1 LPD: General Pacheco Radio, ARG 2300 CW marker. (JD2)
8651 HZG: Damman, Saudi Arabia 1730 CW marker. (JD2)
8661 XSQ: Guangzhou, CHN 1730 CW marker. (JD2)
8662 TAH: Istanbul, TUR 1930 CW marker. (JD2)
8665.1 XSG: Shanghai, CHN 1715 CW marker. (JD2)
8670 IAR: Rome, Italy 1200 CW marker. (JD2)
8680 WSC: Tuckerton, NJ, USA 1700 CW marker. (JD2)
8682 EAD3: Madrid, SPAIN 1200 CW mkr.(JD2) J2A8: Djibouti, DJB 1630 CW mkr.(JD2) J2A8: Djibouti 1525 CW marker (MS4)
8685 IRM: Rome, Italy 1200 CW marker. (JD2)
8686 CNP: Casablanca, Morocco 1630 CW marker. (JD2)
8686.1 HSA2: Bangkok, Thailand 1630 CW marker. (JD2)
8687 SVA: Athens radio 1800 CW tfc lst (BvR)
8687.6 UGC: St Petersburg, RUS 1630 CW "QSW 3540 6425 8687.5 12693". (JD2)
8688.5 ZSC: Cape Town, S. Africa 1900 CW marker. (JD2)
8691 XST: Qingdao, CHN 1630 CW marker. (JD2)
8692.6 SVD4: Athens, GRC 1630 CW marker. (JD2)
8698 7TF6: Boufarik R. 0723 CW with CQ mkr.(DW2) 9MG2: Penang, Malaysia 1630 CW marker. 7TF6: Boufarik, Algeria 1400 CW marker. (JD2)
8700 9AR: Rijeka, Crotia 1400 CW "9AR 3/5/7". (JD2)
8701 LYK: Klaipeda, LITH 1730 CW marker. (JD2)
8704 SVB: Athens, GRC 1730 CW "SVB3/4/5/6". (JD2)
8705.4 PKC: Palembang, Indonesia 1330 CW marker. (JD2)
8706 JOS: Nagasaki, JAPAN 1630 CW marker.(JD2) JOS: Nagasaki R. 0722 CW with CQ mkr. (DW2)
8706.4 UDV4: Unk CIS 0830 CW marker. (JD2)
8710 9AR: Rijeka radio CROAT. 0729 USB p/p t unid vsl in Russian (AW)
8713 IAR Roma radio IT 0732 USB p/p to unid vsl in Italian (AW)
8728 9VG63: Singapore Radio 1200 USB Female op-Tfc list -Navigation Wn in EE-repeated at 12.30 (MS4) EHY: Madrid radio 0550 USB p/p to unid vsl in Spanish (AW)
8743 SVN4 Athens radio 0605 USB p/p to unid vsl in Greek (AW)
8761 UDN: Novorossiysk radio RUS 0610 USB p/p to unid vsl in Russian (AW)
8782 UJQ: Kiev radio UKR 0645 USB p/p to unid vsl in Russian (AW)
8803 OHG: HELSINKI RADIO 0735 USB wkg SWIA:MV ARETE for pp. This ch usually very busy at this time with Russian sea/river vsls. (HOOD)
12251 C6MY5: M/S Crystal Symphony 2111 USB Crystal Cruises 1800 pax cruiseship, concluding R/T tfc w/WOM. (RB)
12317 Unid: 1150 USB duplex ch 1230 qso wx mentions New England Boat Works.(RT2)
12353 Unid Malaysian vsl 0805 USB p/p to shore in Tamil (AW)

12487 WZJB: SS Humacao 1715 USB 1968 U.S.- flagged vsl, w/msg login. (RB)
12551.5 UAWH: KAPITAN BUBNOV (AA-1837) 0715 CW clg RKLM: Arkhangelsk radio (answering on 12830.0). (HOOD)
12560.5 4JEZ: TKH SHIRVAN 0748 CW admin from Km Novruzov to UON. (Vsl is ex KOSTA KHETAGUROV). (HOOD)
12693 UGC: St Petersburg radio 1506 CW de qsx (BvR)
12698 ZSC: Cape Town radio 1729 CW cq (BvR)
12735 URL: Sevastopol radio 1458 CW cq de ans (BvR)
12799.5 PCH: Schevanigen radio 1805 CW de pch 51 (BvR)
12830 RKLM: ARKHANGELSK FISHERIES RADIO 0806 CW msgs to Radio Officers on AB-0026 (UAUH: GENERAL KHLEBNIKOV) and AB-0034 (UVHR: SOVETSKAYA KONSTITUTSIYA). (HOOD)
12876 VAI:Vancouver 1525 CW cq cq cq de VAI VAI qsx 4/6/8/12/16 .(RT2)
12879.5 WSC: Tuckertown,N.J 1540 CW . cq de WSC qsx 6/8/12/16/22 mhz (RT2)
12969 XSV: Tanjin radio 1437 CW w/unid mv "up 443" (BvR)
13020.4 VRX60: HONGKONG RADIO 1116 CW Working ship then marker "cq de VRX60 qsx channels 3/4/5/6" (DW)
13044 VRX61: HONGKONG RADIO 1056 CW Marker "cq de VRX61 qsx channels 3/4/5/6" (DW)
13057 LSA: BOCA RADIO 1958 CW Tfc in Spanish difficult to read but signature ELMA at one stage (DW)
16504 Manila radio PHL 0540 USB p/p to unid vsl unid language (AW)
16916.5 WSC: Tuckerton radio 1531 CW cq de wsc qsx 6 8 12 16 22 mhz obs amver k. (BvR)
17141.6 USU: MARIUPOL RADIO 1200 CW Marker at 1200z"vvv 4KF de USU qss 8540/ 12697/17141,6/22527 then tfc list (DW)
17147 URL: Sevastapol radio 1522 CW cq de ans (BvR)
17164.8 ZSC: Cape Town radio 1732 CW cq de (BvR)
17184.8 KFS: San Francisco radio 1520 CW cq de kfs (BvR)
17194.4 PPR: Rio de Janerio radio 1550 CW vvv de qsx (BvR)
17233 UNID: 1548 CW ch 1 3 4 mhz (BvR)
17238.7 PKX: Jakarta, Indonesia 1400 CW "CQ DE PKX QRU? K". (JD2)

=MILITARY=

2670 NMA21: USCG Group Saint Petersburg 0322 USB with weather and notice to mariners broadcast. (DW2)
3061.5 FDG: French Air Force, Bordeaux 1954 CW, "vvv vvv vvv de fdg fdg fdg ar" marker (MC)
3095 4AK: 1831 USB clg Buchan nothing heard (JM3). RAF Buchan: 1756 USB "5TI, this is Buchan closing down the net at 18:30 Pos 260, 14120/ Pos 300 180z. SIDECAR 0800 USB wkg numerous other stations all using trigraph callsigns (JW)
3269 NNNOVIV: U.S. Navy MARS 0130 USB as NCS, closing the 4W2B net. (RB)
3295 NIGHTWATCH: 0701 USB clg ANKLEBONE on "Z-120", re 'traffic' was received. (RB) LOSTSHOE 0011 USB clg NIGHTWATCH 01. (JH) WAR46 0631 USB clg NIGHTWATCH01. At 0633z, a very weak station (maybe NIGHTWATCH 01) w/26-character EAM string, taken from the 26-character string of the 20/20/26 character EAM set heard on the GHFS at 0619/0629z. (JH)
3915 Buchan: 1410 USB wkg 2HR & M2H on air track update freq.NATO Ex traffic. Using different freq (RAF des. G) Also debate on who has control of the Tanker and associated Chicks slightly confused tanker defaults to Buchan.(PR)
3940.5 FDI22: French Air Force, Narbonne 2001 CW, "vvv vvv vvv de fdi22 ar" marker (MC)
4452 AIR FORCE 2 0703 USB wkg ANDY RADIO (Andrews AFB) for radio check. Placed a phone patch to (202)395-3007 to WATCHCARD (DW2)
4477 HOBART: 0813 USB clg Buchan " Air raid warning yellow" - exercise traffic. Buchan 0816 USB wkg KN6,3KN,H6Y - exercise traffic. (JM3)
4478.5 Buchan 1410 USB wkg O2D says to expect a Badger attack in 30-35 mins.(PR)
4484 Buchan: 1450 wkg R3I (British) on the air tracking/update side w/7UJ (poss. Spanish) and O2D appearing earlier on.R3I keeps on splashing 'fakers' with his 'birds' - Sea Harriers (PR)
4495 SORORITY 0405 USB wkg NIGHTWATCH 01. At 0412z, APPLEPIE called & raised NIGHTWATCH 01 & entered the net through the challenge process. At 0548z, NIGHTWATCH 01 (female opr) with an EAM. At 0625z, APPLEPIE called NIGHTWATCH 01; at 0636z, NIGHTWATCH 01 called APPLEPIE. At

0656z, WAR46 worked NIGHTWATCH 01 for a signal check. At 0728z, APPLEPIE called NIGHTWATCH 01. At 1341z, APPLEPIE exits the net in-the-blind, as seems to be the normal practice, if they can't raise the other party, the challenge characters are two, not three. (JH)
4540 2VLU: 1604 USB wkg ARCHITECT. Action immediate 071600z Nov 96 From ASC HAMPDEN to ARCC KINLOSS 2VLU currently at 54deg 30.7min N 000deg 30.9min W (North Sea) Course 320 deg true. Speed 20 knots(PR)
4550.8 TBU5: Turkish Navy, Ankara 2127 CW, "vvv vvv tbdj tbdj tbdj de tbu5 tbu5 tbu5 zak/zak/zak qrv zug" (MC)
4550.8 TBU5: unk naval, Turkey 1905 CW "VVV TBDJ de TBU5 QAP QAP K". (JD2)
4560 CFH: Halifax Military, NS, CAN 0300 USB w/ann "no traffic" (for Maritime Command ships). (RB)
4715 RAF Volmet 0300 USB w/Aero WX (AM2)
4724 PAT 067: Army Priority Air Transport a/c 1623 USB wkg Andrews w/pp PAT OP's, has 5 pax, ETA 1820z. NIEY: USS Bold (T-AGOS-12) 0603 USB Stalwart-class ocean surveillance vsl wkg Andrews GHFS w/pp "NOPF Dam Neck" (Naval Ocean Processing Facility, Dam Neck, Va) for "monthly HF global test". (RB) OTIS 625: 0406 USB calling Andrews. No joy. Then switched to an any station" call for a HF radio check. No joy. (DW2) "0042" (probably REACH 0042) 0451 USB wkg MCCLELLAN w/pp's. OFFUTT 0549 USB w/FOXTROT broadcast prefaced with ENLIST (UGH 49 BB). BMC 213 0135 USB called ANDREWS; then "any station this net. At 0338z, OFFUTT, as lead GHFS station, with 20-character EAM "FOR TACAMO PAC PRIMARY" (JNAGL2...). At 0526z, OFFUTT w/FOXTROT broadcast prefaced w/FAIRLY (EZ2 25 BF). At 0554z, USNS BOLD called "ANDREWS AIR FORCE BASE" for a pp to a commercial area code 804 number, sounding like it was id'd as NOPF (sounds like) at Dam Neck, VA. A very quick hi 'n bye "test" call. (JH)
4742 KITTYHAWK 1: 1322 USB wkg Architect dep. Heathrow for Newcastle Selcal EM-BQ - RAF BAe146 ZE702.(PR) ASCOT 5152: 0815 USB wkg ARCHITECT SELCAL AK DF, will call when airborne. (SM)
4745 NIGHTWATCH 01 0312 USB wkg WAR46. (JH)
4751.1 TBU5: unk naval, Turkey 1745 CW "TBDJ de TBU5 ZAK QRV ZUG". (JD2) (reported as Ankara & Trabzon - LOGS)
4785 H3G,P3M,Y5B,G1H 1415 USB with some link-11 co-ord data. Plus general chat. Mention of H3G on-deck + pos.rep showed rapid change in previous message indicates helo.(PR)
5043.5 R3I: 1450 USB Appears to be Link-11/ship co-ord -other calls 7BT 6VJ 8SH 7UJ.(PR)
5064 9MB: MN Georgetown 2237 CW Marker tape (corrupt) but id ok as 9MB. (DW)
5154 Unid: 0515 CW rptng "c" in CW. Unid: 0135 CW rptng "c" (AM3) (SLHFM - Russian Navy, Moscow - LOGS)
5163.5 FDI: FAF Aix 0858 CW vvv de fdi (BvR)
5198.5 CGAA: HMCS Anticosta (MSA-110) 1750 USB wkg Halifax Military w/tfc request. (RB)
5425 BRAVO WHISKEY: 0325 USB wkg LIMA re if he copied tfc from BR that events for tonight were cancelled. At 0326, WHISKEY wkg BW re will ck w/'Mother' & adv. Tfc here for several days from JTFEX w/Theodore Roosevelt Battle Group in VaCapes area prior to deployment. (RB)
5446.6 FDC: FAF Metz 1513 vvv de fdc (BvR)
5610 WATCHDOG 94 1155 USB wkg Portishead with Ops Normal at 49 45N 006 50W, selcal LM-GJ, next call at 13.00. WATCHDOG 92 1145 USB wkg Portishead with Ops Normal at 50 12N 005 27W, selcal CL-GH, next call at 13.00 at 49N 10W. WATCHDOG 93 1028 USB wkg Portishead with Ops Normal at posn 52 27N 002 23E, selcal LM-GK a/c is Dornier 228 next call in 1 hr (GT)
5616 CANFORCE 1597: 1457 USB+ Shanwick SELCAL GH DJ. EVAC 0130 heavy: 1458 USB Shanwick Posn info. Who uses the EVAC c/s ? (SM)
5644 French Navy-5244 0922 USB To Brisbane radio.
5655 REACH-6F8 1158 USB To Singapore radio.
5680 Kinloss Rescue: 0855 USB EIHO Radio checks. (SM) Spanish Vessel Cutinio??: 1252 USB wkg Kinloss Rescue wanting position and course relayed to its helo which is at Prestwick. Kinloss says helo will lift in 10 mins. Spanish Navy at half a guess. RESCUE 131: 1500 USB wkg Kinloss RCC heading to a 53m fishing vessel in the North Sea 131 will route around Danger Area 609 where Mission 550 a Nimrod is operating. Mission 550 takes over comms duty for 131 Expected back at

Newcastle 1730z. (PR)
5693 Coast Guard Group Cape May: 2214 USB wkg CG 6511 couldn't hear one another & was advised to go to FM (KW2).
5696 CG2104 2324 USB Radiocheck with CAMSLANT (HW) 6002: USCG HH-60J 0645 USB wkg CAMSLANT. Current position is 3547N 07601W. 6010: USCG HH-60J 0645 USB wkg CAMSLANT. Current position is 2550N 08135W. Reported flight ops normal at 0700. 6039: USCG HH-60J 0700 USB wkg CAMSLANT. Enrt Roosevelt Roads. (DW2) CG RESCUE 1717 1830 USB reporting flight ops normal along w/posn report to CAMSLANT. CG RESCUE 6030 1828 USB w/posn report to CAMSLANT. ALPHA 0 YANKEE 1906 USB clg in a posn report to COMSTA New Orleans. (MF2) CAMSLANT Chesapeake: 2203 USB clg CG6035 for position check (DW3) CG2132 2356 USB Working CAMSLANT. Secondary feq. is 5693. CG2133 0053 USB Pos. report to CAMSLANT ops. (HW) CG 2129 1802 USB passing posn report to CAMSLANT. CG 2133 1803 USB departing Miami Air requesting HF radio guard from CAMSLANT. CG 6010 2158 USB w/posn report to CAMSLANT. CG RESCUE 6030 1828 USB w/posn report to CAMSLANT. (MF2) HERK 17: (USCG HC-130 1717) 0237 USB wkg CG San Juan, req clarification of his playmate, was adv it's SHARK 11, also passes they have radio guard w/SHARK 625. SHARK 11 most likely is USCGC Forward (WMEC-911), and SHARK 625 would be USCGC Venturous (WMEC-625). USCG assets wkg Drug Interdiction (RB)
5705 LOSTSHOE 0011 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 0626 USB w/ 26-character EAM. At 0628z, REINDEER called & raised NIGHTWATCH 01. At 0629z REINDEER provided a 26-character EAM to NIGHTWATCH 01, followed by NIGHTWATCH 01 transmitting the 0626 string to REINDEER. NIGHTWATCH 01 0025 USB wkg WAR46 w/pp to a common DSN number for NIGHTWATCH, for a brief connectivity check, and gone. (JH)
5716 DHM91: German AF Muenster, D 1230 USB tfc. to GAF 377 (ANEU)
5804.5 FDC: French Air Force, Metz 2051 CW, "vvv vvv vvv de fdc fdc fdc ar" marker (MC)
5875 NIGHTWATCH 01 2144 USB wkg TALLCORN, and set this freq as net primary (because of lack of qrm on freq, but not for long.) At 2145z, NIGHTWATCH 01 moved FOGCOUNT from 9016.0 to here. Due to swbc firing up on freq shortly thereafter, they eventually moved net to 5705.(JH)
6502 TBB6: TN Ankara 0551 CW vvv tbdj (BvR)
6647 WATCHDOG 94: 1455 USB wkg GUZA and GBRF for radio checks. British Fisheries Protection - ID?? (PR) (Rick Baker says GUZA: HMS Brecon (M-29), Brecon class mine countermeasures ship; GBRF: HMS Dumbarton Castle (P-265) Castle-class patrol vessel -LOGS)
6683 VENUS 78: 1523 USB wkg Andrews w/ pp to Ft. Worth. SAM 28000: 1345 USB wkg Andrews. (SL) SAM 204: USAF C-20B tail 86-0204, Special Air Mission a/c 0257 USB wkg Andrews VIP w/pp CROWN, wants to attempt contact w/ROYAL CROWN again on SatCom. (RB) ANDREWS 1817 USB wkg SAM 200. (JH)
6712 OFFUTT 0456 USB w/a 26-character EAM (7KANH5...) followed by a 20-character EAM (7KLJ5W...). These two strings were picked up by ANDREWS at 0630z for ANDREWS post 0600z h+30 "repeat" EAM transmission. (JH) RETAIL: 1438 USB wkg Croughton. pp Rhein-Main Metro for eta 1700z. PiRep says a/c is at FL290 and not too far from Zagreb but will not give type or lat/long data. CASEY 01: 1444 USB wkg Croughton pp SAM COMM VIP Andy answers and says to go to F395. List says try 13960. (PR)
6715 5 FOXTROT MIKE: 2057 USB wkg Halifax Military re closing watch. Unid: 2 stations 2241 USB re informal discussion 1 station on ground at Robins AFB -- AFRES informal chit chat freq?? (KW2). PACOM 01 0614 USB wkg MCCLELLAN (who said that he was rotating what sounded like his "R O V", probably meaning his log periodic antenna). At 0617z, MCCLELLAN worked HICKAM on freq, and then had MACDILL come up on freq also. PACOM 01 ex Hawaii at 0553z, enrt to ANDREWS, and was having HICKAM, MCCLELLAN, and finally MACDILL assume his "guard" during the transit. 6715 primary/8968 secondary. TALLCORN 2141 USB wkg NIGHTWATCH 01, both heavily qrm'd by regular h+30 data xmsn heard on this freq daily. (JH)
6717 SPAR 67 1458 USB wkg Andrews. pp Ramstein CP ref tomorrow's tasks : arr LFPV (Villacoublay France) early dep local lunchtime for Ramstein. Will use same primary freq. This one ?? (F875) (PR)
6724 MISSION 550: 1450 USB wkg ??. SURPIC @ 56.02N 001.46W time 1435z.(PR)
6739 HICKAM 0744 USB w/a 47-character EAM (HOWP2D...); a "more to follow"

string, 29-characters (HOCEE6..); & at 0753z, a 45-character EAM (HOJAIO...). AT 0837z, HICKAM with a 29-character EAM (HOGSWL...). ANDREWS, as lead GHFS station 0619 USB w/a 20(RY)/20(RY)/26(FL) character EAM set over a 10 minute period. (JH) Unid: 0246 USB USAF station w/an EAM broadcast. Tx breaking up ! his mike' ? (SM) REACH 827: 2123 USB wkg Lajes pp Hilda East eta 0015Z OEKH C5 acft tail #700463 (KW2). SAM 203 0431 USB called MAINSAIl, and raised LAJES. At 1334z, OFFUTT w/53-character EAM (JNKC2X..). At 1422z, RAID 31 worked MACDILL & req "current traffic"; given JNKC2X. SORORITY 0400 USB called MAINSAIL & raised MACDILL, for NIGHTWATCH 01 wkg freqs: Z125/Z145. (JH)

6742 Y2A: 0944 USB wkg GHJ airborne 0939z on-task 0945z. Also checked on CRATT reception on other freq. NATO Ex related ??(PR)

6750 FOXTANGO 0448 USB wkg GOLF, and then moved to the "101 net". (JH)

6757 NIGHTWATCH 01 2147 USB wkg TALLCORN. (JH)

6761 TURBO 47 0535 USB clg JAMBO 40 FLIGHT w/o response. MACDILL responded to TURBO 47's calls, but misid'd TURBO 47 as JAMBO 47. For some reason, MACDILL was guarding this freq this local night. At 0546z, TURBO 47 called JAMBO. At 0647z, LUCKYHIT called MACDILL without response, then called MAINSAIL without response. Unusual to hear callwords on this freq since 1992. At 1644z TURBO 54 called & worked TURBO 06. Comms followed by some verbal horseplay on freq from maybe other a/c (mention of "goodtimes"). At 1647z, CODER ## FLIGHT (sounds like; could not make out numeric) called CODER 66. At 1700z JAKE12 (sounds like; numeric called "one two") called something that sounded like OFFICE or maybe OFFUTT, with no response. (JH)

6830 SAM 049: USAF C-20C (tail 85-0049) 0225 USB wkg Andrews VIP re itinerary enrt now to AF-1, will RTB 0415. SAM 206: USAF C-20B (tail 86-0206) 1843 USB wkg Andrews VIP w/signal ck's on F867. SAM 29000: (92-9000) USAF VC-25A 0229 USB wkg Andy w/signal ck's. (RB)

6993 SAM 300: USAF C-20H (tail 90-0300) 1819 USB wkg Andrews VIP w/signal ck's on '117'. SAM 974: USAF C-137C (tail 85-6974) 0014 USB wkg Andrews VIP adv ETA 20 mins to departure. (RB) ANDREWS 1721 USB wkg SAM 974. (JH)

7535 NJJC: USS Clark (FFG-11) 1728 USB clg/wkg SESEF, req (AN/)URT23 tests (main HF xmitters). NBIG: USNS Big Horn (T-AO-198) 1520 USB w/HF testing. NAOW: USS Ashland (LSD-48) 1649 USB wkg SESEF w/req for URT23 tests, SESEF adv has in serv to do w/USS Kauffman, & a pre-in serv unit waiting, makes sked for 1400 (EST). BEACHSTORM: unid USN ship 1710 USB wkg SESEF w/HF testing, this callword has been logged on other freqs before & must be a static callword. N/A: PCU The Sullivans (DDG-68) 1629 USB testing several xmitters, app she is on sea trials, to soon be commissioned and become "USS" The Sullivans. NRDC: USCGC Campbell (WMEC-909) 1411 USB w/TACAN, VHF test request. NDRO: USS Arctic (AOE-8) 1413 USB w/HF tests. NJLK: USS Kauffman (FFG-59) 1622 USB w/start of "in service" testing of (AN/)URT23's. NSBJ: USS Ponce (LPD-15) 1615 USB finishing tests of HF xmitters. NALB: USS Albuerque (SSN-706) Los Angeles-class attack sub 1614 USB w/Link-11 system testing. NNTR: USS Theodore Roosevelt (CVN-71) 1555 USB w/complete HF transmitter testing. (RB) NORFOLK SESEF 1809 USB conducting HF transmitter tests with USS Clark. (MF2) Norfolk SESEF: 1425 USB Transmitter tests with USS CLARK, and USS ANZIO (CR)

7536.5 HOPPER 83: U.S. Navy (LCAC-83) 1475 USB wkg AC4, Assault Craft Unit 4, Little Creek, Va, w/rdo check on 'radio 2'. (RB)

7831 TWILIGHT 1644 USB w/26-character EAM, simulcasting on 6739, 7831, & 11244. OFFUTT picked up the string at 1649z. At 1814z, NIGHTWATCH 01 worked WAR46 & moved to ZULU 220. At 1918z, GORDO 12 wkg NIGHTWATCH 01; "training" chatter. Then NIGHTWATCH 01 called TWILIGHT, & called and raised BIGTENT, to advise that he was going "monitor only." At 2032z, BIGTENT exited the net in-the-blind. TALLCORN 2143 USB wkg NIGHTWATCH 01. NIGHTWATCH 01 1804 USB wkg WAR 46 w/pp request to a common DSN 939 18## number. Patch was never properly completed by WAR46. (JH)

7855.5 FDI8: French Air Force, Aix 2151 CW, "vvv vvv vvv de fdi8 ar" mkr(MC)

8026 NAVY 50511 1542 USB wkg ANDREWS, and then moved to 11460. (JH)

8071.5 MIKE, ROMEO, (and others): 1339 USB passing unit damage reports. (JM)

8122 VHP: Canberra Control, AUS 0655 USB wkg unid unit passing 5FG msg. (RB)

8167.9 FDG: Fench Air Force, Bordeaux 1530 CW, "vvv vvv vvv de fdg fdg fdg ar" marker (MC)
8170.5 U13: 1416 LSB passing battle status updates to C3. C3 not heard, all msgs passed 3 times. (JM)
8180.5 U23: 1428 LSB battle status reports for C3. Same format as U13 on 8170.5 kHz. (JM)
8297 AADX: USAV Buena Vista (LCU-2008) 1706 USB clg/wkg AAC2 for posn report. (RB)
8490 AQP6: Karachi Naval, PAK 1645 CW marker, freq vary variable. (JD2)
8493 TBA: Ankara Naval, TUR 1800 CW "T13A TBA 2/3/4". (JD2)
8505 TBO3: Izmir Naval, TUR 1645 CW "TBDJ VVV DE TBO3". (JD2)
8528.5 EBA: Madrid Naval, SPAIN 1615 CW marker. (JD2)
8551.5 CTP: Oieras Naval, Portugal 1300 CW marker. (JD2)
8555 TBB: Ankara Naval, TUR 0800 CW "TBDJ DE TBB5/7". (JD2)
8572 TBA: Ankara Naval, TUR 0800 CW "TBDJ TBA 5/7". (JD2)
8589.5 VTK: Tuticorin Naval, India 1500 CW "VVV DE VTK 2/3/4"; broadcast BN/BNR. (JD2)
8602 ZLO: RNZN Auckland 0751 CW with ch mkr. (DW2)
8634 VTG6: Bombay Naval, INDIA 2300 CW marker. (JD2)
8637.5 VTP6: Vishakhapatnam Naval, INDIA 1800 CW marker, alt freq.(JD2)
8646 VTP6: Vishakhapatnam Naval, INDIA 1800 CW broadcast VN; freq extremely unstable. (JD2)
8648 VTP6: Vishakhapatnam Naval, INDIA 1800 CW alternative freq. (JD2)
8968 AGAR 94: USB w/Thule with pp. to NORDIC CONTROL. Req 60 onload.(CM) ARIA ONE 2039 USB called HICKAM AIRWAYS. Canforce 109: 1349 USB wkg Thule. pp Greenwood Ops DSN 568-5457 eta was 2010z.(PR) INTERLUDE 1855 USB ("clattering" noise in the background of his audio, similar to sound heard on ANGRYMAN a couple of days earlier) w/a 26-character EAM (FLY547..) simulcast on 8968 & 15016 at 1855z and 1955z, w/the string first heard on the GHFS at 1756z. At 1935z ANDREWS, as lead GHFS station, with a 20-character EAM "FOR TACAMO PAC SECONDARY." VOLITION 1400 USB wkg MCCLELLAN. SHARK 12 1536 USB wkg MCCLELLAN w/pp to LOBO. About an hour earlier SHARK 11 was up wkg ANDREWS w/pp to LOBO, w/SHARK 11 id'ing himself as ex WACO w/"certain passengers" ex "point of origin," & enrt to maybe MWCR.(JH) SIERRA 88: 2209 USB wkg Andrews pp McChord ops with eta 2300Z (KW2). LOGAN 12: 1520 USB wkg Offutt GHFS w/pp to GOLDENHAWK (433 DSN which is NAS Virginia Beach) re their assuming net control, they adv are not NCS capable. (RB) PTA 108: 2134 USB wkg Andrews pp PTA ops eta Andrews 2250Z (KW2). Andrews 1952 USB wkg RAINBOW, looking for NIGHTWATCH, Andrews replies w/Z150 (5800) & Z175 (9016). (MF2) WISE 81: 1439 USB wkg Offutt w/an unheard metro office re low-level wx around the Chattanooga area (CR) FOGCOUNT 2110 USB wkg Thule w/pp to NIGHTWATCH 01. Request new wkg frequencies. Primary Z-145 (5705) Secondary Z-150 (5800). (MG)
8971 SHADOW 01 1818 USB clg TURBOCHARGER,nothing heard. At 1831 QUEBEC 2 UNIFORM calling SINBAD 01 on 8 megs in the red. At 1834 BLUESTAR req WOLF 1 to go secure HiFox, & at 1837 BLUESTAR asking WOLF 1 if he is painting any other aircraft. 8 X-RAY ALPHA 2131 USB clg for radio ck from either BLUESTAR 5 UNIFORM or 5 UNIFORM GULF,5 UG answered. At 2136 5 UNIFORM GULF clg CARDFILE 712 for radio check. At 2143 8 X-RAY ALPHA req CARDFILE 712 contact HOMEPLATE. At 2146 CARDFILE 712 clg 8XA, CARDFILE reports they are off station enrt Jacksonville. CARDFILE reports they are spare group 04. Was //4739. OSCAR 6 SIERRA 1920 USB req FLYING TIGER 720 to pass spare group 07 via satcom. OSCAR 6 SIERRA 1959 USB adv FLYING TIGER that circuit satcom will be down for one hour. (MF2)
8974 Kiwi-524 2313 USB To RAAF Townsville.LMEG C-130 #7005 RNZAF. AUSSI 342 2344 USB TOWNSVILLE, RAAF SYD. Trojan-004 2349 USB To RAAF Sydney LPCK A-97-177 C-130 37Sqd RAAF. ENVOY-605 2351 USB To RAAF Sydney LPDK A-26-073 Falcon 900. Stallion-083 2316 USB To RAAF Townsville. LPBG C-130H 97-005 36Sqd RAAF.
8975 STRIKER-348 0401 USB w/SYDNEY. Aussi-761 0502 USB To RAAF Sydney. "call Lord Howe maritime on 5680 of 126.7". (SB) (8974? - LOGS)
8989 Unid 0425 USB Would have to be marine traffic from the NSW area around Nowra navy base. comm's were "FFG E180 TAC 20 G 34.43s 151.26e" that lat & long is off the coast. (SB)
8992 TROUT 99 USB wkg Macdill. QSY to 11217 for a pp. TROUT req second pp to TROUT OPS. Macdill adv he was off freq. TROUT adjusted freq and

faded out. TROUT was somewhere over Massachusetts. Macdill: 1728 USB passing Nightwatch freqs (Z175, 145) to an unheard station. KING 22: 2042 wkg Macdill pp to Shaw metro. A/c was 50 miles out and needed local wx; ATIS was out. (CR) MACDILL 1944 USB wkg CASEY 01. (JH) SAM 201: 1222 USB wkg MacDill pp Andrews VIP re departure from Miami 1210Z VIP advised to QSY to "784" for direct comm (KW2). NAVY JR033: C20G/C130T of VR-48 "Sky Pigs" at NAF Washington D.C. 2252 USB clg MacDill but not stating a frequency, MacDill is answering on 11175, prob C-20G as most Navy C130T's use 8xx ID. (RB) MacDill 1828 USB w/pp for FOXTROT 2 X-RAY to UNID regarding EXERCISE EXTREME HIGHLY ALPHA. (MF2) NIGHTSTAR 1820 USB wkg Macdill w/pp to Robbins Command Post. Command Post id's as "Raymond 19 or Razor 19" couldn't tell. CP also id's as BLACKNIGHT CONTROL. NIGHTSTAR advises on station 1748z & no "SCDL" (Secure Comms Data Link- LOGS) due to GSM not having right crypto. Wants CP to relay to RAZOR 1. NIGHTSTAR is a new one to me. Is this the E8's at Robbins? (MG) (yes, E-8 JOINT STARS -LOGS)

9007 TRENTON MILITARY 1611 USB w/brief comms w/unknown station (missed id.) (JH)

9014 MEET 1 1821 USB wkg MEET 2 (or sounds like MEAT/MEET) in muffled voice comms. SHAMU 20 1928 USB wkg RAYMOND 07 w/pp to TRAVIS CP for status of his receiver: MOOSE 70. ROGUE (sounds like) 09 1927 USB wkg RAYMOND 07 w/pp to ALTUS COMMAND POST. (JH)

9016 PURGATORY 0046 USB wkg NIGHTWATCH 01, entered the net. TOADSTOOL & one other in the net. At 1953z, TRICYCLE called & raised NIGHTWATCH 01, and entered the net. RAILBIRD 1938 USB wkg NIGHTWATCH 01 and exited the net. DRAFTBEER 2301 USB called & worked BEEHONEY, w/req for some "t-quad" and ANDVT work. NIGHTWATCH 01 2010 USB wkg FOGCOUNT, then FOGCOUNT called SLIPHORN. At 2134z NIGHTWATCH 01 with 104-character EAM (IHXMOQ...), first heard on the GHFS at 2128z. At 2138z, NIGHTWATCH 01 called and raised TALLCORN. (JH) McClellan GHFS: Ca, US 1603 USB wkg POPULATE coordinating data transfer. (RB) AUTOGRAPH 1815 USB with "FLXZBH" traffic to NW01 on Z175. Heard also on 11175 with different op. NW01 going monitor only for one hour. (MG) WAR46 1920 USB called Nightwatch 01 to have NW do a pp test w/them. They said they were testing a new pp system. NW01 tested and replied that the message was completely garbled & unreadable. WAR46 thanked them for the test and advised that they will be continuing to test the system. (MK)

9023 CANFORCE 115: 1247 USB wkg SIDECAR re data link coordination frq XCAE as station XAFPVH (KW2). TALLCOURSE (sounds like) 1507 USB clg & wkg REVETMENT for brief comms. (JH) 9023 DECORATOR: 1405 USB calling LONESOME for a signal check. (JM) GRIZZLY 07 1819 USB clg EAGLE CONTROL. DRAGNET SIERRA 1654 USB wkg DRAGNET TANGO, w/chatter about CANNON (AFB). At one point, one of the operators read out a check sheet ("reading down the ladder") re F16's at 1900z+ timeperiod over the central Arizona area: SPIDER 1 through 4 ("Blue air") and something sounding like FLIGHT or FIGHT, w/freq for SPIDER as 308.9, for FLIGHT (or whatever) 324.4, & "common victor" as 138.025. BANDSAW HOTEL 1604 USB wkg DEERHUNTER. Lots of talk about NORAD SATCOM, or rather lack of same, and a HOTEL FOX problem (something about a MAGNA (sic) HERTZ problem). At a request to use BRAVO 23 (a HF freq designator for data), the comment was made that it may be too close to "your" voice freq. 9023 DRAGNET TANGO 1842 USB wkg TOPROCK (wun lurker id'd as probable NORAD element in Alaska.) At 1848z, lots of chatter re TOPROCK, DEERHUNTER, and GRADY. (JH)

9031 IFN27 0937 USB Architect/dep Lyneham 0840/50 eta Paderborn 1015/25 relay K+PADAPXH (selcal AJ-BF) IFN88 0923 USB Architect/answering selcal for wx at LDSP/0900 (Split) (HW) Ascot 5191: 2223 wkg Cyprus FWC for wx somewhere.(PR)

9057 NIGHTWATCH 01 1552 USB wkg WAR46. At 1609z, RAINCOAT worked NW 01. At 1624z, ANGRYMAN worked POSSIBLE. At 1732z, ANGRYMAN w/26-character EAM ("ANGRYMAN with a message of 26 characters"), w/heavy "clattering" in his background. At 1843z, POSSIBLE called NIGHTWATCH 01. At 1932z POSSIBLE worked NIGHTWATCH 01 & checked out of the net. SPLITEND 1722 USB wkg NIGHTWATCH 01. At 1922z, SPLITEND worked NIGHTWATCH 01 and checked out of the net via the challenge process. NAILHOB 0019 USB clg NIGHTWATCH 01. At 0028z SLIPHORN (female opr)

called NAILHOB. At 0032z, SLIPHORN called RAINCOAT. At 0104z NAILHOB went monitor only for 2 hours, except that at 0210z NAILHOB called SLIPHONR, and at 0233z NAILHOB called STRATEGY. (JH)
9120 SAM 206: USAF C-20B (tail 86-0206) 1839 USB wkg Andrews VIP w/signal ck's on F005, QSY F732. (RB)
10001 ARL: Karachi Naval, Pakistan 1645 CW "DE ARL QSX 6/8". (JD2)
10204 NIGHTWATCH 01 1956 USB wkg SELLOUT, switched to Z-175 for a radio check (Z190 10204, Z175 9016). NIGHTWATCH 01 1956 USB wkg SELLOUT, switched to Z-175 for a radio check (P-Z190 10204, S-Z175 9016). (MF2) NIGHTWATCH net 1916 USB up w/female operator (ALLIGATOR). BADBLOOD 2120: USB wkg NIGHTWATCH 01 changed to voice encryption (KW2).
10767 AJO: USAF Incirlik, TUR 1700 ISB VFT-6028 on USB, voice on LSB wkg NSY/10972 kHz. (JD2)
10780 ARIA 1: 2305 USB clg ARIA Control/ Ascension Radio/ Cape Radio without luck. 2315 Found him wkg ARIA Control looks like fine tuning of a datalink.(PR)
10781.5 9MB: Penang Naval, Malaysia 1625 CW "VVV 9MB 13/16/19". (JD2)
10972 NSY: USAF Sigonella, Sicily 1700 ISB VFT-6028 on USB, voice on LSB wkg AJO/10767 kHz. (JD2)
11056 ANDREWS 1941 USB called SAM 974, moving here from 9027 (heavily qrm'd by now common strong data tones). (JH)
11124 Gibraltar 0750 USB wkg+ KITTYHWAK 20 std relay required & Will pass info to 0035053497. (SM)
11175 CARMEN 8: 1953 USB w/Offutt, req wx for Wilmington, Delaware. (CM) MacDill: 1404 USB clg REACH 75H no answer. TROUT 99: USB Clg MAINSAIL. GHFS station, possibly Macdill responded, but was off freq. DISH? 77: 2224 USB calling MAINSAIL; no response. TITAN 20: 2246 (unhrd) with TITAN BASE through Macdill. IAF 016 0553 USB Called by Incirlik. Req the flt QSY to 4724 URGENT?: 2135 USB wkg MacDill w/pp to a 271 number (CR) Canforce UN flight 3753: 1607 USB wkg Incirlik w/pp to DSN 848-3270. Departed last station at 1445 (last-2 of ICAO were xxRY) going to FZAA. CASEY 01: 1016 USB (STRACOM C-135E) wkg Croughton pp to SAMCOM VIP'to rpt arrival Istres. Req this be passed to STRATCOMCEN NMCC (who?) and RAYMOND 21. 1259, CASEY 01 wkg Croughton for pp to SAM Command, who req them go 311u. AGAR 94 1957 USB (412ndTW C-18 10894) wkg Ascension pp to (poss.) BANTER Control at Mildenhall to cnfm refuelling at ??Al Dhafra at 0415. This a/c passed through RAF Mildenhall on 3/4.11 and is thought to have gone to La Reunion (GT) STOOL 0710 USB wkg Croughton, w/PR3VOYV7DVAG2-SXO577RP/28 auth. FH. REACH 52660640 USB Ascension/RC w/Ascension. REACH 273 0505 USB Ascension/pp. Mildenhall AMCC:eta 0810z. REACH 02190632 USB Ascension/pp. Travis Command Post. etb 0810z also pp. Travis Metro (HW) SENTRY 48 1456 USB (female opr) clg RAYMOND 37. RULER 30 HEAVY 2114 USB wkg ALBROOK w/pp's (to HOWARD.) At 2121z, BASCO 63 (self id'd as C17) worked ALBROOK w/pp's). E4F 2303 USB clg "any Global station" & raised ANDREWS, w/pp request to a DSN 927 number (commercial 757 878 ....). SENTRY 52 1904 USB called MAINSAIL & raised ANDREWS w/pp to a DSN 884 number (Tinker AFB); self-id'd "training" patch. OFFUTT 1459 USB as lead GHFS station, w/20-character EAM "FOR MISHAP." At 1517z, OFFUTT w/20-character EAM "FOR MISHAP". At 1755z, DRAGNET TANGO called OFFUTT. At 1757z, TUFF 18 called OFFUTT, but raised MACDILL: an "ops normal, negative relay" message, and gone. At 1834z, OFFUTT called URGENT, w/no response. At 1957z, SAM 403 worked OFFUTT w/pp to ANDREWS w/departure/arrival notice, and get the ANDREWS working freq: 99. TAZZ 82 1728 USB wkg MACDILL w/pp to RICKENBACKER OPS. At 1729z, ANDREWS w/20-character EAM "FOR ALL REGIONS". HERKY 610 1510 USB wkg OFFUTT w/pp's. At 1512z OCEAN 78 called ALBROOK and raised MACDILL, w/pp's to a DSN 277 number id'd as STEEL (Pittsburgh.) At 1552z OFFUTT, as lead GHFS station, w/20(RY)/20(RY)/26(FL) character EAM set over an 11 minute period. HAWK 81 1622 USB wkg MCCLELLAN w/pp to HAWK CONTROL, & discussed CANNON AFB, and the "ROADRUNNER Exercise". At 1748z, OFFUTT w/a 20(JN)/20(JN)/26(7K) character EAM set over a 10 minute period, w/the 26-character string heard on the NIGHTWATCH net (9016) at 1804z as "current traffic". JAMBO 25 1734 USB wkg MACDILL passed "ops normal" message. At 1622z, HAPPY 52 worked MCCLELLAN, looking "for traffic", and told there was none. EXECUTIVE ONE FOXTROT

1616 USB wkg MACDILL. AF2C 1755 USB wkg MCCLELLAN w/pp to a DSN 942 number, id'd as FIDDLE (maybe MIKE MIKE FIDDLE or some such), passing info about a "spare" (or sounds like) group for PELICAN 11. At 1939z TROUT 99 called MAINSAIL & raised OFFUTT, w/pp to ANDREWS wx. During OFFUTT's transmission, the operator seemed to have the brief vibrating" sounds currently being heard on 11244 in their audio's background. At 1949z OFFUTT worked ADJUSTMENT for a signal check. At 2032z, PACOM 01 worked HICKAM. ASCENSION 1854 USB wkg ARIA ONE. At 2037z ALLIGATOR worked MCCLELLAN & set up data comms - she was going to perform them here until MCCLELLAN hurriedly moved her to 11181. CODER 65 1436 USB called SKYBIRD & raised MACDILL for a signal check. At 1441z ATRA 41 (sounds like) worked MACDILL w/pp to MUDBUG CONTROL, re activity at 38N 87W and a warning to "watch for a/c carriers in your vicinity." At 1541z, MCCLELLAN was up w/a 26-character EAM, at the end of which STINGBEE called & raised MCCLELLAN for NIGHTWATCH 01 working freqs. After a few long minutes, MCCLELLAN popped up & asked STINGBEE for NIGHTWATCH's DSN number. STINGBEE did not have it; thanked MCCLELLAN for his work; signed off with MCCLELLAN; called & raised MACDILL. STINGBEE asked MACDILL for NIGHTWATCH 01's wkg freqs. Many minutes passed; STINGBEE called & raised MACDILL & reminded him that he needed NIGHTWATCH 01 working freqs. MACDILL advised STINGBEE that he was unable to raise NIGHTWATCH 01. At 1557z, STINGBEE called SURPRISE with no response. (JH) Air Force 2: 0100 USB en route to Chattanooga ordering pizzas through Ascension AFB. (JS4) IVORY 81 1525 USB (C-130, Tail#31038) with pp to TACC, 576-1748 departed Quantico at 1459 heading to Rickenbacker. (KS) REACH 90022: 2105 USB //11181 wkg Offutt pp 835-XXXX cancelled prior to contact. This is a 439 AW C-5 Acft that was on the ground parked at Westover AFRB (MA) (KW2). VICTORY 1432 1903 USB looking for a radio check,DARKFORCE 4 answers. ALBROOK 2105 USB w/pp for STINGRAY 25 to LOBO. NOVEMBER 169 GULF 1846 USB req ALBROOK to pass there ETA to Howard base ops. ALBROOK 2105 USB w/pp for STINGRAY 25 to LOBO. ALBROOK 2112 USB w/pp for STINGRAY 35 to LOBO. ALBROOK 2125 USB w/pp for SHARK 21 to LOBO. Albrook 1855 USB w/pp for SHARK 25 to LOBO. Albrook 1856 USB w/pp for SHARK 58 to LOBO. Albrook 1858 USB w/pp for STINGRAY 35 to Howard Rescue. Albrook 1904 USB w/pp for SHARK 21 to LOBO. Albrook 1907 USB w/pp for SHARK 18 to LOBO & meteo. Albrook 2143 USB w/pp for STINGRAY 35 to Howard Rescue, searching for a boat. Albrook 2155 USB w/pp for STINGRAY 35 to LOBO, discussed Colombian & Nicaraguan participation in SAR. ALBROOK 2112 USB w/pp for STINGRAY 35 to LOBO. AIR FORCE 1453 2033 USB clg MacDill for HF radio check. Ascension 1826 USB w/pp for CROWN 21 to DNS#854-8863-KING OPS. Ascension 1830 USB w/pp for CROWN 21 to DNS#854-7113-Patrick meteo. MacDill 1905 USB w/pp for RAZOR 22 to DNS#468-2612/2613/2614-Raymond #19, RAZOR 22 reports ops normal. Ascension 1943 USB w/pp for SHARK 12 to LOBO. ROLLER 03 1948 USB req pp from MAINSAIL,very weak nothing heard. Ascension 2044 USB w/signal check for REACH 7043. Albrook 2045 USB w/pp for SHARK 13 to LOBO. Andrews 2043 USB w/pp for LANCER 01 TRIDENT duty office. Andrews 2010 USB w/pp for SPIN 21 DNS#228-7400-Davis-Montham-Raymond 8. Albrook 2120 USB w/pp for REACH 8 JULIET 8 to Charleston meteo (8J8 is a C-17) (MF2) Raid 24 1820 USB wkg MacDill, pp to Command Post, req meet them on 6761.(MG) NIGHTHAWK 62 1646 wkg MacDill w/pp to ??? base ops. NIGHTHAWK BASE 1707 wkg MacDill asking if MacDill was in contact with NIGHTHAWK 62. MacDill sez no, then makes all frequency request for 62 with no joy. MacDill offers to make periodic all freq. requests for the next hour. (MJ) RAZZ 88: unid a/c 0249 USB wkg Hickam GHFS w/pp to DSN (missed!) who answers as "Hojo", adv 88 that they have their "front end" on uniform (UHF) at this time. NAVY LN451: P-3C, VP-45 "Pelicans" NAS Jax, Fl 1455 USB wkg Andrews GHFS w/pp to Duty Office at JAX, ID's as 776, req pass msg to Navy Command Ctr at Randolph. TUFF 18: B-52H, 11th BS, Barksdale AFB, La 1501 USB wkg Offutt GHFS w/Op's normal, neg relay tfc. TOIL 31: C-130H 357th AS/908th AW, Maxwell AFB, Al 1506 USB wkg MacDill GHFS w/pp TOIL OP's re special shoring for their cargo. TURF 99: (spelled) unk type a/c 1521 USB wkg MacDill GHFS w/pp PEGASUS Op's. BEAR 08: USMC KC-130 of VMGR-234 NAS Fort Worth JRB 1527 USB wkg Andrews GHFS w/att pp to 739 DSN. MOTOWN 4: C-130E 191st AG, Selfridge ANGB, MI 1611 USB wkg Andrews GHFS w/pp MINUTEMAN Op's (ANG Op's Center Wash D.C.), tail

39813, dep Birmingham enrt Howard. GORDO 15: E-4B 1624 USB wkg McClellan GHFS w/pp RAYMOND 21 to report arrival at Offutt at 1621z, req relay to NIGHTWATCH 01. GAF 346: C-160 of German A.F. 1639 USB wkg Andrews GHFS w/pp Dover meteo for wx CYYT 1730z, gives pirep & ID's as C-160. HUNT 76: unk a/c 1700 USB wkg MacDill GHFS w/pp McQuire CP re is at AR212 & has no tanker, tanker ROVER 51 was routed to a different track, if unable to make it there, RTB. SPIRIT 36: B-2A, 509th BW, Whiteman AFB, Mo 1920 USB clg mainsail, no joy. JAMBO 30: B-52 2nd BW Barksdale AFB 1715 USB wkg Offutt GHFS w/request, req relay to MUDBUG that low level 150 has moderate to severe turbulence at 15,000ft. JERSEY 71: KC-135E 141st AR 1752 USB wkg Albrook GHFS w/pp FURIOUS, (So. American ALCC at Howard AB, Panama). N/A: USS KINGFISHER (MRH-56) 1807 USB clg "any global high command", also at 1824, no joy. NAVY LA56: P-3C of VP-5 "Mad Foxes", NAS Jacksonville, Fl 2339 USB wkg Ascension w/pp. BAT 31: unk a/c 1710 USB wkg Offutt GHFS w/pp HAUNTED HOUSE, passes "zero plus 41" & off. DROOL 11: (spelled) unid a/c 2005 USB wkg Andrews GHFS w/pp Kirkland meteo. NAVY LL004: P-3C, UP-3A or TP-3A of VP-30 "The Pro's Nest", NAS Jacksonville, Fl 1958 USB clg mainsail for several mins, no joy. CanForce 1600: Canadian Forces a/c 1952 USB wkg MacDill GHFS w/ID CFC 1600 after some confusion over call, w/pp 252 DSN, passes departure msg, dep Cold Lake & reqs it be passed to Shearwater Op's. (RB) ALBROOK 2125 USB w/pp for SHARK 21 to LOBO. Albrook 1855 USB w/pp for SHARK 25 to LOBO. Albrook 1856 USB w/pp for SHARK 58 to LOBO. Albrook 1858 USB w/pp for STINGRAY 35 to Howard Rescue. Albrook 1904 USB w/pp for SHARK 21 to LOBO. Albrook 1907 USB w/pp for SHARK 18 to LOBO & meteo. Albrook 2143 USB w/pp for STINGRAY 35 to Howard Rescue, searching for a boat. Albrook 2155 USB w/pp for STINGRAY 35 to LOBO, discussed Colombian & Nicaraguan participation in SAR. Navy CS33: 2117 USB Croughton Call to the Duty Office. ETA 1755L. STOOL 0610 USB Incirlik/Ops. normal at 0610 (HW) WA03: 1653 USB Asen' + Croughton PP to Euro DSN 266 xxxx. Was told this number is not available at this time. HERKEY 100: 1703 USB clg MAINSAIL.(SM)

11181 REACH 90022: 2105 USB //11175 wkg Offutt pp 835-XXXX cancelled prior to contact.This is a 439 AW C-5 Acft that was on the ground parked at Westover AFRB (MA) (KW2). ALLIGATOR 2038 USB wkg MCCLELLAN in voice & data. (JH) NIGHTWATCH: 1947 USB wkg DEEPWELL w/rdo ck's. (RB)

11180 Norwegian 5742 0935 USB wkg JWT for radio check all in EE then to 6683. (PR) (JWT is Norwegian Navy, Stavanger; 5742 is a probable Sea King -LOGS)

11187 BEEHONEY 2306 USB worked DRAFTBEER. At 2309z, BEEHONEY called AUTOGRAPH. At 2313z, DRAFTBEER worked COMMAND CENTER. At 2317z, BEEHONEY worked DRAFTBEER and requested that DRAFTBEER send his "QTH" via WHISKEY BRAVO. At 2322z, ticking and voice time hacks on freq.

11201 Coastguard Martek? 0815 USB wkg unid "870"? Later at 0820 Coastguard Guam also wkg with same craft. (AW)

11214 Dragnet Sierra 1810 USB wkg Raymond 24 w/pp to DSN 884 number. Raymond 24 Id'd it as Trenton Military. BANDSAW KILO 2110 USB wkg TRENTON MILITARY w/pp's. (JH) DARKSTAR: E-3 AWACS 1529 USB no other 2nd letter used, wkg Trenton Military re pp CURRENT Op's (at Kirkland AFB DSN), once pp initiated ID's as SENTRY 51 & passes revised ETA. (RB) Dragnet Sierra 1815 USB wkg Raymond 24 trying to pp to radar maint. 24 says line is degraded due to number of pp's & tells Dragnet Sierra to go direct. DS raises Radar maint. who id's DS as Dragnet Sierra Art and tells them to power down and reset the breakers. (MG) SENTRY 34 1505 USB wkg TRENTON MILITARY w/pp to RAYMOND 24. At 1723z, CHECKMATE 5 worked SENTRY 30. (JH)

11217 CASEY 01 1945 USB worked MACDILL w/pp to ANDREWS VIP: "preflight" for 31 Oct 1130z - 731 and 465 upper. (JH)

11220 Exec 1 Foxtrot: USB w/pp to Andrews with a lot of traffic and instructions.(MW) Andrews 1929 USB w/pp for PACER 01 to DSN# 574-2748 LANGLEY METEO. Andrews 1822 USB w/pp for CASEY 01 to Offutt meteo. Andrews 1815 USB w/pp for SAM 204 to Andrews meteo. (MF2) SPAR 66: 1845 USB wkg Andrews w/pp Offutt base op's ("KOFF Base op's") on "311". (RB) CASEY 01 USB wkg Andy on 311u departed Istres 1259 eta NAS Keflavik 1635 relay to STRATCOMCEN, NMCC and RAYMOND 21. Then pp to RAYMOND 21, adn asked them to relay departure time to LOOK 01 and LOOK 02 SPAR 67: 0836 USB (58thAS C-20A) wkg Andy on 311u, trying to

get a pp to DSN 480-5941 (somewhere at Ramstein AB, Germany). Due to comms problems, they also tried on F099u/13.247, F498u/8.032. (GT) SPAR 67: 1215 USB wkg Andrews (thru Incirlik site). pp Ramstein CP Both appear to have comms problems. 67 asks Andy to try LSB Andy says Incirlik is not capable of LSB. (PR)

11226 ANDREWS 1924 USB worked SAM 403. At 2000z, ANDREWS worked SAM 403, & asked if SAM 29000 was going to be up today. At 2013z, during a period of heavy ALE pulse activity, a female voice (of the automated voice mail variety) popped up on freq and said "Invalid selection", and was gone. (JH)

11232 Rescue 333: CanForces a/c 1656 USB wkg Trenton Military w/pp to Trenton RCC for traffic ck, also selcal ck GJ-BK. DARKSTAR: E-3 AWACS 1528 USB no other second letter used, wkg Trenton Military re pp, adv they are in sector 9, Trenton adv QSY 11214. (RB)

11244 OFFUTT 2123 USB as lead GHFS station with 20-character EAM: preamble TESTTE. String was read in the normal manner: preamble thrice, followed by the entire string read twice; and echoed by other GHFS stations. String was TESTTE STTES TTES TTES T, which can be rewritten as TEST TEST TEST TEST TEST. A *very* unusual plaintext EAM string. FISHNET 1431 USB wkg ALBROOK w/pp to a DSN 339 number id'd a BOOMTOWN (ALBROOK requested if the number were European or CONUS, indicating they are not familiar w/the common DSN request destination). A brief message (sounding as if it were described as an OPSIG or OPZIG msg - a short alphanumeric character group). (JH) Offutt 1802 USB with an EAM "FLVNA2" & a "more to follow" beginning w/"JNJPAY", also heard on 11175. (MG) REFRACTION: 1600 USB wkg Thule pp Lajes Global!! lost a/c soon after.(PR)

11247 Gibraltar 0815 USB wkg KITTYHAWK 20 No answer on that number, but you message has been passed onto the relevant party. Gibraltar: 0823 USB Calling for KITTYHAWK 20. Nothing heard. ASCOT 5173: 0900 USB Cyprus ETAs etc. SELCAL AJ BF Started with Cyprus & ended up speaking to Architect! (SM)

11250 RAF weather bx 0845 USB. The RAF Finningley training is listed here.(AW)

11396 Reach-52P5 1018 USB To Jakarta radio.

13059 EBA: SN Madrid 1619 CW cq de (BvR)

13204 SPAR 66: 1656 USB wkg Ascension w/pp to unid "Command Post". (RB)

13206 TOPPS 11 (sounds like) 2010 USB clg PLANTATION OPS. (JH)

13211 ANDREWS 1924 USB wkg SAM 403. (JH)

13236 French AF 0930 USB freq "raphael", flights into former yugoslavia (ANEE)

13242 MACDILL 2036 USB wkg PACOM 01, and then HICKAM worked PACOM 01. NIGHTWATCH 01 2210 USB called and raised MACDILL (who moved them here from 11175). MACDILL put NIGHTWATCH 01 through the challenge process, then accepted a voice EAM string (26-characters) at 2221z, which was broadcast by MACDILL on the GHFS at 2222z, and by OFFUTT at 2226z. At 2225z, MACDILL confirms to NIGHTWATCH 01 that the string was "sent"; followed by NIGHTWATCH 01's req for a pp to OFFUTT wx (eta 0000z).(JH)

13245 SPLITEND 1723 USB clg NIGHTWATCH 01. WAR46 1815 USB called and raised NIGHTWATCH 01. (JH)

13247 ANDREWS 1857 USB wkg SAM 29000. At 2002z, NIGHTWATCH 01 worked ANDREWS, & ANDREWS asked NIGHTWATCH 01 if he had "heard from" SAM 29000 or SAM 403 - negative. (JH)

13322 'D': UNID RUS-NY station, RUS 1131 CW+USB, 'D'-marker at h+30 & h+00, USB PP-tfc. by female op in RR at 11:42 UTC (ANEU) (The "D" SLHFM is usually linked with Odessa, Ukraine. - LOGS)

13440 Andrews VIP: 1842 USB clg SAM 206 on F646, adv QSY F867. (RB)

13565 SAM 206: USAF C-20B (tail 86-0206) 1836 USB wkg Andrews VIP w/signal ck's, QSY F005. (RB)

14441.5 NNN0CNY: USCGC Campbell (WMEC-909) 2124 USB clg ASSMS, NNN0PRQ ans, not hrd. NNN0CBB: Unid ship 2001 USB last known as USCG Auxiliary station, is a ship call now, clg ASSMS w/beam heading SW for routine pp tfc. NNN0CUB: USS Arthur W. Radford (DD-968) 0002 USB clg ASSMS w/beam heading of S/SE for routine pp traffic. NNN0CVQ: USCGC Forward (WMEC-911) 2006 USB clg ASSMS w/beam heading S/SE for routine pp tfc, NNN0UTO ans at 2017, QSY 14470.0 kHz. NNN0CXZ: USS Vella Gulf (CG-72) 2015 USB clg ASSMS, NNN0UTO ans, adv too weak to work.

NNN0CAA: Unid ship 2359 USB clg ASSMS w/beam heading SE for routine pp tfc. NNN0CZI: USS Merimack (AO-179) 2037 USB clg NNN0NUW after NUW made and he was standing by for pp tfc, but no joy, then clg ASSMS. (RB)
14470 NNN0CCL: Unknown USN/USCG vsl 2123 USB wkg unid w/conclusion of pp.(RB)
15011 SAM 206: USAF C-20B (tail 86-0206) 1839 USB wkg Andrews VIP w/signal ck's on F732, QSY F646. (RB)
15016 CARDFILE 712 1735 USB wkg ANDREWS w/"ops normal" message. At 1803z, CARDFILE 712 worked ANDREWS w/pp to FIDDLE, where CARDFILE passed a multi 3-element group message. The FIDDLE operator complained that it sounded as if CARDFILE 712 was moving the mic near & far from his mouth - actually, it was a result of heavy qsb noticeable even here. At 1805z, OFFUTT as lead GHFS station, w/a 20(RY)/20(RY)/26(FL) character EAM set over a 16 minute period. At 1832z, OFFUTT w/a now rare 20-character EAM string in the FL..series of static characters. (JH) Ascension 1941 USB w/pp for REACH 00446 to Dover CP. Andrews 1835 USB w/pp for LION 84 to DNS# 336-3246 & also to DNS#833-3391 Roosevelt Roads base ops. BRANDY 1859 USB passing message to NIGHTWATCH 1. Albrook 1839 USB w/pp for SHARK 61 to LOBO & meteo. BRANDY 1859 USB passing message to NIGHTWATCH 1. (MF2) OPEN SKIES 12T: 1230 USB wkg Lajes. pp DSN 368-3282 answered as LOBO OP CENTRE (I think.) - Had Open Skies Launch Report dep LHTL (Hungary somewhere ??) going to Mildenhall. (PR) NAVY JK3T: Navy C-2A Greyhound of VRC-40 "Rawhides", NAS Norfolk, Va, 1748 USB wkg Lajes w/pp 942 DSN, JAX OpCon. MARINE 153: unid a/c 1712 USB clg mainsail. CROWN 20: HC-130P? 1645 USB wkg MacDill GHFS w/pp to meteo for wx at KVAD 1850z, KCOF 2000z, neg pirep. ASTRO 22: unk type a/c 1615 USB wkg Andrews GHFS w/Fairchild AFB CP/Meteo. SAM 300: USAF C-20H (tail 90-0300) 1816 USB wkg Andrews w/pp Andrews VIP re lost comms, QSY to '117'. (RB)
17010 TBO3: Izmir Naval, TUR 0945 CW V's only. (JD2)

=MISC=

1848 Unid: 1810 female voice repeating the word MUH HA three times, pausing for a few seconds and then repeating the word three more times. This cycle was repeated until 1813Z at which point the transmission stopped. (VZ)
2500 JJY Tokyo time station.1051 AM in EE.Stronger than WWWH which is very rare here. (AW)
2628 MOSSAD 1916 USB FTJ broadcast(HS)
3150 MOSSAD 1920 USB PCD broadcast(HS)
3270 MOSSAD 1918 USB KPA broadcast(HS)
3417 MOSSAD 1939 USB ART broadcast(HS)
3640 MOSSAD 1919 USB VLB broadcast(HS)
3840 MOSSAD 1911 USB YHF broadcast(HS)
4040 Unid: 2034 USN Italian male w/what I can only presume were freqs being repeated over & over. (SM)
4270 MOSSAD 1940 USB PCD broadcast(HS)
4357.4 JEIB: unid 1735 CW clg upjx qsg 2 followed by 5 fgs. JEIB: unid 1750 CW clg c2oy and 5 fgs (BvR)
4360 MOSSAD 1921 USB MIW broadcast(HS)
4463 MOSSAD 1910 USB FTJ broadcast(HS)
4539 DSA1D: 1249 MCW Unid beacon very strong in the Athens area, although it is not local (ground wave) (CK)
4558 Unid: 0125 CW rptng "c" (AM3) (SLHFM - Russian Navy, Moscow - LOGS)
4560 Mossad: Israeli Intel Service 0357 USB YL/EE w/British accent, call up of YHF2. (RB)
4575 N/A: Argentine Nat'l Police 0345 USB w/SS ann followed by two tone siren like notes that went on to 0358, fol by another ann. The notes sound like a European 2-note police siren. (RB)
4665 Unid: 0243 AM yl in EE rptng "victor lima bravo two "(AM3)
4791 ASOTA (Australian School Of The Air) 1000 USB This TX was from Charters Towers (Qld). (SB)
4880 Mossad Phonetic 1900 USB. 5 groups of letters by YL.Right in the broadcast band,causing interference to 4875 (AW) MOSSAD 1914 USB ULX broadcast. (HS)
4992 ASOTA (Australian School Of The Air) 1142 USB. (SB)

5091 MOSSAD 1853 USB JSR broadcast. (HS)
5221 ASOTA (Australian School Of The Air) 1011 USB Teaching kids Japanese. ASOTA (Australian School Of The Air) 1143 USB (SB)
5277 PANTHER: DEA, Nassau, Bahamas 0733 USB wkg SHARK 04, req PANTHER take his voice guard from Group Miami. This is probably USCGC Northland (WMEC-904), as the other '04' USCGC Maui WPB-1304, is HP'ed in Pacific.(RB) 9 DELTA 3 2103 USB Reporting ops normal after departing PANTHER 400 to PANTHER. (MF2)
5300 ASOTA (Australian School Of The Air) 1010 USB. (SB)
5301 Unid: 0310 USB : om in GG??? w/ 5/g's, distorted, muffled. (AM3)
5437 MOSSAD 1944 USB ART broadcast(HS)
5440 Unid Scrambled comm's 1009 USB sig 60+db Must be Cairns station using some sort of encrypt, any help please, If i had to guess i would say fishing company?? (SB)
5445 ASOTA (Australian School Of The Air) 1135 USB (SB)
5688 OB: 1547 USB wkg B10 B20 B30 B40 w/test setup strings.OB appears to be net control with other stations sending 5 groups of 5 characters preceded by a test number. Strings are not in phonetics though. After each string there is a standard response in terms of number of errors, reliability, fading, and interference (usually fairly high as the German Air Force was pretty active on 5687 !!) All in EE w/EE & Scot. accents. Sounds both military (from message groups) and non-military (from lack of phonetics). (PR)
5841 PANTHER 1915 USB clears 39 CHARLIE to RTB there closing down search. At 1925, 39 CHARLIE reports to PANTHER he has spotted suspected vessel, 39C passes coordinates to PANTHER (possible vessel name Ida-way, weak signal). 61 ALPHA 1841 USB passing posn report & req PANTHER takeover their guard.. PANTHER reports 39 CHARLIE is west of 61A posn. 39 CHARLIE passing report to PANTHER. At 1844, 61 ALPHA tells PANTHER they have no LIMA ALPHA team, PANTHER req 61A to search an area while he RTB, 61A replies he is a flight of 3 & will not conduct the search. HERK 19 1920 USB clg PANTHER, 19 leaving PANTHER 200 enrt NASSAU. (MF2) (CG C-130H 1719 -LOGS)
5853 ASOTA (Australian School Of The Air) 1008 USB. (SB)
5865 ASOTA (Australian School Of The Air) 1138 USB Teaching kids Japanese.(SB)
5881 Unid Portuguese accented stn 0925 USB.Long list of orders (AW)
5895 Christian Radio Mission fellowship CRMF PNG 0802 USB. RE;Medical emergency,birthday messages (AW)
6844.5 Unid: 0221 CW sending dots continuously (AM3)
6859 ASOTA (Australian School Of The Air) 1112 USB. (SB)
6959 MI6 Lincolnshire Poacher 1906 USB numbers(HS)
7605 MOSSAD 1350 USB CIO Broadcast (HS)
7606 Unid: 0445 AM YL rptng "CIO2" in EE (AM3)
7907.8 Ganfuda Oil, Libya 0642 USB, Opchat in EE btw Tripoli base and location "s3" (MC)
7918 Mossad HQ Tel Aviv 0430 AM wkg/Mossad station YHF2 (central Europe/ Mideast) w/5lgs (ANEE)
8014 US-INTEL Counting station 1500 USB 5 FGs to '221' (ANEU)
8070 Unid Filipino stn 1050 LSB. Ordering supplies. AT 1100 they switched to USB and 5 minutes later at 1105 back to LSB.Very unusual. (AW)
8080 Unid Filipino stn. 1005 USB Long list of orders. Not the same as 8070 (AW)
8142 OLX: MOI Prague 0555 USB tfc call. til 0605 (ANEE)
8989 Unid Pacific Island net.1114 USB p/p, sitting on USAF frequency in Military band (AW)
9186 HEP 9: Police Zurich, SUI 1735 CW VVV DE HEP 9 (ANEU)
9251 MI6 Lincolnshire Poacher 1907 USB numbers(HS)
9270 MOSSAD Tel Aviv, ISR 1445 USB unusual transmission CIO F38 B46 T56, no 5LGs sent //12747 kHz (ANEU)
10493 WGY912: 1805 USB wkg WGY908 for comm check, moved to F-36. (MG) WGY912: 0007 USB ann closing station until Monday morning 0800 (a.m.) local (KW2). WGY914: FEMA Reg.4 Balboa Hts, PAN 1747 USB wkg WGY904, FEMA Dist.4 Atlanta, Ga coordinating digital traffic. (RB)
10529 US-INTEL Counting station 1330 USB 5 FGs to '215' (ANEU)
10597 US-INTEL Counting station 1119 USB 5 FGs//8014 kHz (ANEU)
10929 Unid stn. 1020 USB Indonesian or Malaysian. Phone net (AW)
10970 MOSSAD Tel Aviv, ISR 1438 USB unusual message MIW 46R, no 5 LGs

sent (ANEU)
11250 Unid pacific island net. 0805 USB. p/p on RAF frequency (AW)
11545 MI6 Lincolnshire Poacher 1920 USB numbers(HS)
11618 'V': UNID RUS-NY marker 0725 CW continuous V in slow morse (ANEU)
12415 Unid Asian phone net.1100 USB p/p in data band (AW)
12530.8 Unid Asian phone net.1105 USB. p/p in RTTY band (AW)
12603 MI6 Lincolnshire Poacher 1924 USB numbers(HS)
12747 MOSSAD Tel Aviv, ISR 1445 USB unusual transmission CIO F38 B46 T56, no 5LGs sent //9270 kHz (ANEU)
12862 Unid Russian stations.1107 USB p/p in CW band (AW)
13446 WGY912 1806 USB wkg WGY908 w/pp to "3451" Id'd as "radio room" hy-n-bye check and gone. 908 advised WGY910 was up on F-26 (10.493). Any ideas on 3451? Anywun heard this before? (MG)
14487 MI6 Lincolnshire Poacher 1122 USB numbers(HS)
14686 ATLAS 2046 USB w/pp for 270 to UNID. (MF2)ATLAS 2106 USB w/pp for FLINT 940 to FLINT BASE. (MF2) ATLAS: Customs Over the Horizon Enforcement Net (COTHEN) Rockwell-Collins, Cedar Rapids, IA 1730 USB wkg '520', has 2 POB enrt BIG BEAR 200 for 4-1/2 hr flight. (RB)
14750 MOSSAD 1220 USB MIW broadcast(HS)
15682 MI6 Lincolnshire Poacher 1124 USB numbers(HS)
15970.5 KKN50: Washington D.C., USA 1435 CW "QSX 6/10/11/15 K". (JD2)
16084 MI6 Lincolnshire Poacher 1126 USB numbers(HS)
20048 SLHFB (S) 1054 CW Single letter (S) HF beacon (DW) (Russian Navy, Arkhangelsk - Logs)
20048 SLHFB (C) 1054 CW Single letter (C) HF beacon (DW) (Russian Navy, Moscow - LOGS)
20584 Salcost Company, Rome 1500 USB Salcost office, Kassala, Sudan, conversation about crematoriums, brakes, etc., til 1530 (ANEE)

This months contributors:
(AM2) Al Marote, Vero Beach, Fl, USA
(AM3) Albert Miles, Richmond, Va, USA
(ANEE)Anonymous, Eastern Europe
(ANEU)Anonymous, Europe too
(AW) Alex Wellner, Sydney, Australia: Kenwood R5000
(BDS) Brent D. Saylor, Pa, USA: Icom R-70, AEA CP-1 TU
(BvR) Bert van Rij, Naaldwijk, The Netherlands
(CK) Costas Krallis, Athens, Greece: Yaesu 7700
(CM) Craig MacKinnon, Halifax, NS, Canada: Yaesu FRG-7
(CR) Chris Reed, W. Pennsylvania
(DW) Day Watson, Clevedon, UK: NRD535, Racal RA1792, Code 30 v.2, JVFAX
(DW2) David Wright, San Angelo, Tx, USA: DX394, Grundig YB400, Code 3 Gold
(DW3) Donald Warner, Medway, Ohio, USA
(ES) Eric Sillick, Toronto, On, CAN: Hoka Code 3 Gold
(FH) Fred Hetherington, Ormond Beach, Fl, USA: M-7000 (by mail)
(FM) Fabrizio Magrone, Forli, Italy: JRC NRD535
(GT) Graham Tanner, London, England
(HOOD)Robin Hood, UK (by mail)
(HS) Henk Stelte, Utrecht, Holland
(HW) Hans Wildschut, Zutphen, the Netherlands: Lowe HF225 with 12m wire
(JD2) John Doe, London, England (by mail)
(JH) Jeff Haverlah, Houston, Tx, USA: R5000/R7/FROG7/RFB65
(JM) Jack Metcalfe, Danville, Ky, USA: Drake R-8, AEA DSP-1232
(JM3) John Morrison, Glasgow, Scotland: HF-225
(JP) Jim Pogue, Memphis, Tn, USA: R-2000, Sony 2010
(JS4) J.D. Stephens, QTH?
(JW) John Ward, St Petersburg, Fl, USA
(KS) Keith Stein, Woodbridge, Va, USA: Sony ICF2010
(KW2) Ken Windyka, Springfield, MA, USA: Sony ICF2010, Yaesu FRG100
(LC) Les Crossan, Walls End, UK: Lowe HF150, WeFax for Windows
(MC) Mike Chace, Bath, UK: Hoka Code 30
(MF2) Mike Fink, S. Florida, USA: Drake SW8
(MG) Michael Graham, New Albany, Ms, USA: AOR AR3030
(MJ) Mike Jacobs, Allentown, Pa, USA: R5000
(MK) Mark Kirker, NY, USA: Sanagean 803
(ML2) Murray Lehman, Perth, Australia: Icom R-71E, R9000, M7000v7, M8000v5
(MS4) Mohammad Sultan, Port Louis, Mauritius: NRD535D, Universal M-1000

(MW) Mike Wolfson, Ashland, Ohio, USA: NRD535
(MZ) Mark Zee, Waterford, Ireland: Philips
(PR) Paul Robbins, Nuneaton, Warwickshire, England: IC-R72
(PS) Paul Scalzo, Montreal, PQ, Canada: R2000, M7000 v.7
(PS3) Phillip Scott, TS-870
(PT) Peter Thompson, Crewe, Cheshire, UK: Lowe HF225/Universal M-7000
(RB) Rick "RD" Baker, Austintown, Ohio, USA: Icom R71A, Icom R72, M-1000, Hoka Code 3
(RT2) Robert Thompson, Kilgore, Tx, USA: R390A, FRG100, R-8, NRD535D, M900/ M6000v9 Hoka Code 3
(SB) Steve Bottom, Cairns, Australia: FRG7700
(SL) Steven Lare, Holland, Mi, USA: Drake R-8
(SM) Stuart McMurtrie, Surrey, UK: Racal 1772
(SS) Stan Scalsky, Leonardtown, Md, USA: IC-R71A, M7000, Code 3
(TD2) Tom Davies, Grahamstown, South Africa: R-70, ZSRX vert. ant.
(VZ) Valentino Zardi, Copenhagen, Denmark
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore fone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

=END=

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\\\\\ WORLDWIDE UTE NEWS Club ////
\\\ An Electronic Club Dealing Exclusively in Utility Stations ///
\\\\ WUNNEWS Vol. 2, No.12 December, 1996 ////
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If you are reading this newsletter from another source, such as a BBS, please let us know!

Check out our web site at: http://www.leonardo.net/berri/wun

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From your Electronic Editor:

* Welcome to another issue of the single largest source of utility station information and the most widely quoted utility station publication in the world...the WUN Newsletter.

WHAT'S INSIDE:

o Membership News by Mike Wolfson
o Ask WUN!
o Digital Review by Ary Boender
o Nautical News by Day Watson
o New Products, Books, News and Reviews by R.D. Baker
o The QSL Report by Martin Barry
o Utility Round-up by Ary Boender
o The WUN Logs Column by Dave Wright & TEAM LOGS

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MEMBERSHIP NEWS

Mike Wolfson, Membership Director
mwolfson@bright.net

Another month has passed and its again time to update club members on the status of the club. In the past month membership levels have held steady. This continues the trend that we've seen for the past year. Membership figures collected at the beginning of the month are compared with the results for November 1996 and December 1995 in the following table:

	12/96	11/96	10/96
WUN	670	664	675
WUN-DIGEST	91	94	89
WUNNEWS	198	202	173
Mail	31	39	43
BBS (non e-mail)	185	152	152
	1175	1151	1042

The membership represented 31 countries this month. No new countries were noted.

A couple of months ago, I did a survey of the member database of the types of receivers used by members. I mentioned when reviewing the results that there were more receivers being used than we had members. This month, I decided to go back and survey the number of receivers that individual members use regularly enough to list for the survey. Here are the results of that survey:

# of radios	1	2	3	4	5+
# of members	93	51	25	10	3

While doing this survey I also decided to look at what general type of receiver was the most popular; portable or table top. Those results are listed below:

Table Top: 129

Portable: 18

Both: 34

Could not identify: 1

From the information included in the members' database, I conclude that a lot of members have one radio and that its a table top model. Those of you who own more than one, own at least one table top and at least one portable.

Speaking of the database, I have information on 188 members. Only 182 of those people responded with information about the radios they own. I bring up this point because the club has over 1100 members. That means about 1000 are not in the database. If anyone out there cares to change that please either e-mail or surface mail me their answers to the survey questions:

E-Mail Address
Name
Where you're located (state/Province, Country)
Main receiver(s)
Main decoding equipment (HOKA, JVFAX, etc)
Monitoring interests (aero, marine, etc)

The information will not be shared or used by anyone except club officers for club purposes. The database management program I'm using can accept ASCII text. I am requesting that you answer each question on a separate line followed by a carriage return. Please do not include the question itself in the answer, just the information requested. If you're sending me a revision please indicate that in your response.

That will do it for this month. Those of you in the southern hemisphere, I hope you have a good summer. Those of us in the north will get our revenge in 6 months. To all, I hope the new year is a good one and that your radio monitoring is successful. Mike

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INTERNATIONAL CIVIL AERO

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Here we are again with another edition of International Civil Aero. My apologies to everyone for last months no-show, I've since talked to my hard drive and it has assured me that no further problems will crop up un-expectedly! 8-)) Thanks to Tim Braun for pointing out the omission of Kapuskasing Radio in my feature article about Canadian HF stations on 5680 in October. I had that on my list but forgot to include the station in the final edit! We have quite a bit to get to this time around, so here we go!

==========

5517-NEW FREQUENCY IN AFRICA!!

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WUNner Tim Braun recently discovered a new frequency operational in Eastern Africa. 5517.0 is the channel and so far he and Ian Baxter have reported aircraft calling and working Tripoli, Nairobi, and Addis Ababa. What is not clear from further monitoring is if this frequency is a being implemented as a gradual replacement for 5658 or simply an additional frequency to alleviate some of the congestion to be found on the usual 5 mHz channel.

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5661-THE TIME IS RIGHT FOR MALTA

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Recent monitoring of this frequency from ECNA has resulted in excellent re-ception from Malta ATC. I have noted this station as early as 2100 UTC and as late as past 0500 some nights so do keep an ear out for it!

==========

TRANSATLANTIC FLIGHTS FROM THE US WEST COAST (PART TWO)

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ROUTE	FLIGHT	A/C TYPE	TIMES	FREQ
SFO-CDG	UA960	767-300	DEP 1520 ARR 1000+1	DAILY
SFO-CDG	AF081	A340	DEP 1630 ARR 1115+1	X24
SFO-CDG	AF081	A340	DEP 1655 ARR 1140+1	24
PHX-LGW	BA276	DC10	DEP 2130 ARR 1450+1	2567
SEA-CPH	SK938	767-300	DEP 1320 ARR 0755+1	X3
SEA-LHR	BA082	747	DEP 1745 ARR 1115+1	DAILY
SEA-SVO	SU324	IL96	DEP 2250 ARR 2020+1	1
SEA-SVO	SU324	IL96	DEP 2100 ARR 1830+1	5
YVR-AMS	KL682	MD11	DEP 1740 ARR 1210+1	1467

YVR-FRA	LH493	747	DEP 1550	ARR 1025+1	2467
YVR-LHR	AC896	74M	DEP 1450	ARR 0750+1	1356
YVR-LHR	AC896	767-300	DEP 1450	ARR 0750+1	247
YVR-LHR	BA084	747	DEP 2010	ARR 1325+1	DAILY
YEG-LHR	AC850	767-300	DEP 2005	ARR 1135+1	24
YYC-FRA	AC844	767-300	DEP 1740	ARR 1100+1	DAILY
YYC-LHR	AC850	767-300	DEP 1955	ARR 1135+1	X24
YYC-LHR	CP96	767-300	DEP 2125	ARR 1305+1	DAILY
YYC-LHR	CP98	767-300	DEP 1925	ARR 1105+1	6

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AIRLINE NEWS THIS MONTH

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ICELANDAIR has now afforded all of us the opportunity to catch a 737-400 on HF now that service to Halifax from Keflavik has started. FI607 KEF-YHZ operates on Tues/Thus dep 1645 arr 1805, and the return FI606 dep Halifax at 2300 and arrives KEF 0630+1. Let me know if you have any luck hearing this flight! IBERIA has once again shuffle dit's Airbus A340's to the following routes:

MEX-MAD IB6400
MAD-MEX IB6401
BOG-MAD IB6740
MAD-BOG IB6741
GRU-MAD IB6820
MAD-GRU IB6821

TAP-AIR PORTUGAL has a new route from Lisbon to Macau via Brussels using Airbus A340's: TP262 BRU-MFM dep 1515 arr 0930+1 on Mondays/Fridays, and TP 261 MFM-BRU dep 2215 arr 0730+1 on Tuesdays/Saturdays. Believe it or not, SCIBE of Zaire has a 727-200 in service between Kinshasa and Brussels, ZM002 FIH-BRU dep 2300 arr 0730+1 on Wednesdays, and ZM003 BRU-FIH dep 2200 arr 0540+1 on Tuesdays. TURKISH AIRLINES has new nonstop Istanbul-Johannesburg service using Airbus A310's: TK590 IST-JNB dep 2200 arr 0715+1 on Mon/Fri, and TK591 JNB-IST dep 1830 arr 0340+1 Tues/Sats. In news from BRITISH AIRWAYS, the Concorde is back on the Heathrow-Barbados route with the following sked during the holidays:

BA273 LHR-BGI dep 0940 arr 0955 Wed/Thu/Sat/Sun except 25 and 29 Dec.
BA272 BGI-LHR dep 1330 arr 2145 Wed/Thu/Sat/Sun except 25 and 29 Dec.

CONDOR now has scheduled once-weekly 757 service from Cologne to Ft. Lauderdale. DE051 flies nonstop FLL-CGN on Mondays. In other route news from CONDOR, the air line has commenced Cologne-Las Vegas service on Mondays: CGN-LAS DE1082 and LAS-CGN DE1083 with 767's. CHINA SOUTHERN now has Boeing 777 service to Amsterdam from Beijing. CZ345 PEK-AMS dep 1400 arr 1820 on Tues/Fri, and CZ346 AMS-PEK also on Tues/Fri dep AMS 2010 arr PEK 1320+1. KLM ROYAL DUTCH AIRLINES has moved an MD11 onto it's route to and from Montreal's Mirabel International. KL671 AMS-YMX and KL672 YMX-AMS are the flight numbers. ROYAL JORDANIAN will operate a special A310 service from Amman to Montreal-Mirabel on December 19. RJ2266 dep YMX 2320 and arrives 1850+1 with one mystery stop. Also from YMX is EL AL's 767 service to Tel Aviv through December 29th. LY0010 dep YMX 1500 arr TLV 0800+1 Sundays only and LY0009 dep TLV 0200 arr YMX 0705 also on Sundays only.

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TRANSATLANTIC FLIGHT NUMBERS

The third in a series of listings to help you identify the routes of flight numbers you may hear on HF, and this month we present American Airlines:

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FLIGHT #	ROUTE	A/C TYPE
AA37	ZRH-ORD	767
AA38	ORD-ZRH	767
AA41	ORY-ORD	767-300
AA42	ORD-ORY	767-300
AA44	JFK-ORY	767-300
AA45	ORY-JFK	767-300
AA46	ORD-LHR	767-300
AA47	LHR-FRA	767-300

AA48	DFW-ORY	767-300
AA49	ORY-DFW	767-300
AA50	DFW-LGW	MD11
AA51	LGW-DFW	MD11
AA54	ORD-MAN	767-300
AA55	MAN-ORD	767-300
AA56	MIA-LHR	MD11
AA57	LHR-MIA	MD11
AA62	MIA-ORY	767-300
AA63	ORY-MIA	767-300
AA64	JFK-ZRH	767
AA65	ZRH-JFK	767
AA67	LHR-JFK	767
AA68	MIA-MAD	767-300
AA69	MAD-MIA	767-300
AA70	DFW-FRA	767-300
AA71	FRA-DFW	767-300
AA78	DFW-LGW	767-300
AA79	LGW-DFW	767-300
AA80	ORD-ARN	767-300
AA81	ARN-ORD	767-300
AA83	FRA-ORD	767-300
AA84	ORD-FRA	767-300
AA86	ORD-LHR	MD11
AA87	LHR-ORD	MD11
AA88	ORD-BRU	767-300
AA89	BRU-ORD	767-300
AA95	MXP-ORD	767-300
AA96	ORD-MXP	767-300
AA98	JFK-BRU	767
AA99	BRU-JFK	767
AA100	JFK-LHR	767
AA101	LHR-JFK	767-300
AA104	JFK-LHR	MD11
AA105	LHR-JFK	767
AA106	JFK-LHR	767
AA107	LHR-JFK	MD11
AA108	BOS-LHR	767
AA109	LHR-BOS	767
AA110	MIA-FRA	767-300
AA111	FRA-MIA	767-300
AA115	LHR-JFK	767
AA116	JFK-LHR	767
AA131	LHR-JFK	767-300
AA132	JFK-LHR	767
AA136	LAX-LHR	767-300
AA137	LHR-LAX	767-300
AA141	LHR-JFK	767-300
AA142	JFK-LHR	767-300
AA146	BOS-ORY	767
AA147	ORY-BOS	767
AA155	LHR-BOS	767
AA156	BOS-LHR	767
AA173	LGW-RDU	767
AA174	RDU-LGW	767

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Thanks to the very few who took the time to contribute information to this month's column, and from Tony and Peter: HAPPY HOLIDAY's!

73 and good DX

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= .- ... -.- .-- ..- -. .- ... -.- .-- ..- -. .- ... -.- .-- ..- -. =

= =

= ASK WUN =

= Mark Schoonover - KA6WKE =

= e-mail: schoon@cts.com =

= Snail: 9802 Medina Drive, Santee, CA 92071 =

= 117.0095W 32.8527N =

= .- ... -.- .-- ..- -. .- ... -.- .-- ..- -. .- ... -.- .-- ..- -. =

Welcome to another Ask WUN column. There were some good submissions this month -- please keep them coming! Thanks go out to: Robert Thompson, Michael Liss, Nino Porcino, Tom Davies, and Richard & Shelly Bozovich for their submissions.

<< From Last Month >>

Computer generated RFI was a hot topic last month. I have also suffered from the same problems -- only to totally eliminate RFI from my station. Tom Davies <tom@fylde.ru.ac.za> writes:

Hi Mark,

I enjoyed your first column ASKWUN and found it really helpful and interesting. I'll be getting the Email and comprfi files! Looking forward to more of the same in the future, and wishing you every success.

Tom Davies

Thanks Tom! Getting feedback about this column is very important to me. Good or bad, please let me know what you like or dislike. So you're probably wundering how I accomplished this. Well, simply put, it's all in the antenna! Yes, time and time again, as radio hobbyists, we are constantly told the antenna is the most critical part of the hobby. Eliminating computer generated RFI by the proper installation of your antenna. So what is proper installation?? For an excellent discussion on wire antennas and their installation, point your web browser to:

The Nordic Shortwave Center -- http://sds.se/org/swl/antenn/feed1.htm

I installed a 350' inverted L antenna following the guidelines on this site. By moving the feedpoint about 35' from any buildings, I now have noise free reception. Some people will argue that you'll also need a transformer of some kind for wire antennas. I don't have one on this antenna, but I built one following the directions. I do suffer from rain and high wind static -- so I'll be installing this transformer soon. I'll let you know the results.

" Wait a second Mark -- I don't have the space to move my feed point from its current location! ", you're saying. The best advice I can give someone in this scenario is to not respond too fast by saying this. Take the time on a clear day and walk around your property. Make a 'birds eye view' drawing of your land using graph paper. Put all buildings, trees and other obstacles on this paper in relative positions and distances from each other. You just may be surprised at the results!

<< Nifty NRD Tricks >>

Robert Thompson <rcthompson@kilgore.net> writes:

TO all 535d owners some info you can use.

(1) turn your radio on.
(2) press freq button + 9999999 press Ent/khz Button.
(3)This will light up entire rcvr display,this may not work with the 1ST few models of the 535.

Happy Holidays
Robert Thompson

Interesting information Bob! Here's some more receiver tricks that I know. For readers that have a Sony Direct Satellite System, on your remote, enter the following digits -- 5551212 -- and hit the command key. The receiver will display all of the developers of the system. Also, on most Sony televisions, enter the following digits -- 777 -- and hit the enter key. This will switch the television into display mode, similar to what you'd see at a

dealer.

<< Opinions Needed >>

Michael Liss <liss@alpha.fdu.edu> needs some assistance on purchasing the RS DX-394:

Hello wunners!

I will soon purchase Radio Shack's DX-394. I currently own DX-390. Is it worth it? What advantages does it have over DX-390.

Michael

Well, I don't have any experience with the Radio Shack products. If any reader happens to have some thoughts and can send them our way, please do! Michael and I look forward to hearing from you. Richard and Shelly in Iceland need some input on the Sangean reel antenna:

From: "Richard & Shelly Bozovich" <richboz@mwr.is>

I ordered a Drake SW-8 from UNIVERSAL Radio December 7th. Needless to say, I am anxiously awaiting it's delivery. Once I receive it and get set up, I will return to actively participating with the WUN group.

In the mean time, I have two questions.

a. As I live in government housing, I have ordered a Sangean portable shortwave antenna (reel) to use with my Drake. An outdoor antenna is out of the question due to the fashion police and the high winds. Is this a good antenna? Does anyone have any experience with it?

b. Does anyone have any comments on the Drake SW-8? Good/Bad/Indifferent?

Please reply directly to richboz@mwr.is as I am subscribing to the digest only at this time.

Richard and Shelly -- I'm also in the same boat here as the Radio Shack products. I'm sure some reader has one of these antennas and may be willing to send a line or two about its performance.

<< Sound Blaster Programming >>

Nino writes needing assistance in programming his sound blaster card to decode the various digital modes:

From: Nino Porcino <m.caruso@netline.totobit.it>

Hi Mark,

Here I am with a question for the "ASK WUN" column.

I'm an UTE listener and also a computer programmer. Recently I learned how to read the audio from the computer soundcard so I would like to make some sort of software for decoding digital signals on HF. I already made a CW decoder and now I would start with something like a FAX or RTTY/SITOR decoder. The problem is I don't have any kind of technical information about digital transmissions. So it would be nice if someone of you WUNNERS could help me on finding some type of source (books/internet files/web sites/and so on). I'm looking also for DSP filtering techniques.

Thanks in advance, -- Nino

Nino, one of the best places to start is on the WUN WWW site. Take a look at the Digital Frequently Asked Questions. DSP techniques are an entire

industry within itself. I don't know how well a sound card would perform in this area. A dedicated DSP chip from one of the major chip manufacturers would probably be better. They include all of the low level debuggers, assembly language reference manuals, and usually in depth set of examples. Not for the light hearted that's for sure! Report back with what you've done and I'm sure we could find a pool of testers to assist in the development.

<< Ask WUN For Sale >>

From: Stuart Mcmurtrie <smcmurtrie@uk.b-r.com>

I have the following for sale:

2 X Ex British Army, PRC-316 covert txcvrs. Type once used by the Parachute Reg't & the SAS. CW primary (key built into unit) with AM wide-band voice secondary. X-tal controlled. 2 to 7 MHz in 45 chan's. 12v operation. With Clansman Headset & Boom Microphone. 120 UKPounds each or 200 UKPounds the pair.

1 X Magellan GPS2000, Hand-Held GPS system. Used only a couple of times, with OSGB, As new, Boxed 150UKPounds (or make me an offer).

Stuart.
smcmurtrie@uk.b-r.com

So, this closes out another month of the Ask WUN column. I hope everyone has a happy holiday season!

73's and good monitoring.....

==========

DIGITAL REVIEW

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Happy Xmas and a great new year to y'all folks! Mike Chace sent me the results of many months of monitoring. He copied an offshore network that is related to the one I reported in April last year and where I mentioned this net briefly, he examined it down to the last detail. It's a beauty Mike! Further we have the diplo corner and two press items.
Next month is our birthday and we want the anniversary edition of the news-letter bigger than ever, so flood my (e-)mailbox with your news, info, logs and everything else that you want to share with the WUN family. Mike's story is a perfect example. It doesn't have to as large as that article so, come on, write you findings down and ship them to me!

Diplo Corner

- First the schedule for the next two months:
  January -> Algeria, Congo and France
  February -> China and Ethiopia
  Should you have any info that you wanna share about diplo stations of these countries, please send them to me. My addresses are in the header. I am especially looking for Chinese sample messages.
- Where is PCW? MFA the Hague and embassies were rarely heard during the past few months. The latest -unconfirmed- news is that they moved to satellite.
- Angola: I searched and asked around, but no-one seems to have anything on Angola's diplo comms, except for 3 freqs: 9942, 17458 and 22848 kHz

- India
o Country profile.
  India measures 3,287,590 km2. The capital of the republic India is New Delhi. India is divided into 25 states and 7 union territories. States: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh and West Bengal.

Union territories: Andaman and Nicobar Islands, Chandigarh, Dadra and Nagar Haveli, Daman and Diu, Delhi, Lakshadweep and Pondicherry.
The MFA in India is called the Ministry for External Affairs 'MEA' and an embassy is know as a 'High Commission'.
India's defense forces include Army, Navy, Air Force, Security or Para-military Forces, Border Security Force, Coast Guard and Assam Rifles.

o Notes on operation:
> New Delhi uses callsign of 8WD plus a number indicating the station being worked except for the New Delhi/Male link.
> All traffic is in English, with some 5L groups, and is usually short; the receiving station is off air when copying traffic.
> On 20841.7 khz tests of new diplo net by MFA New Delhi. Using SSB, Sitor and 2400bps QPSK.
> Uses "rrrrrrrrrrrrr" to indicate message received OK on QSX.
> Uses "ovovovovovovov" to indicate that QSX should go ahead with message.
> 2 digit channel identifiers used eg "qsy ch 53 53 53 53"
> Messages from MFA headed and signed with "foreign new delhi".
> Messages from embassies headed and signed eg "indembassy moscow".

o Transmission modes used:

ITA2	50bd	170/400/520/850Hz
SITOR-A	100bd	on the New Delhi/Male link
FEC-100	96bd	Type 6028 VFT
QPSK	2400bps	
CW		
USB noted during tests		

o Frequencies:
Freqs will vary slightly from those shown

7775	10723	11147	11155	12104	12112	14785	15755
15917.8	15920	15920.5	16203.7	16372	16375	16378	16379
16412	16414.5	17535	17540	17541.5	18277.5	18285	18325
18407	18459.7	18465	18466.7	18469.3	18724.5	19003	19021
19022	19035	19052	19055	19057.5	19440	19440.6	20375
20610	20614.8	20841.7	20882.5	20885	20887	20892 kHz	

o MFA official callsigns
ATP 65 MFA New Delhi
ATP 68 MFA New Delhi

o MFA callsigns and selcals used for links to the various embassies.

20		IND	New Delhi to Male
8WD2	XXXX	IND	New Delhi to Yangon
8WD3		IND	New Delhi to Victoria
8WD4		IND	New Delhi to Belgrade
8WD5		IND	New Delhi to Kabul
8WD6		IND	New Delhi to Port Louis
8WD7		IND	New Delhi to ???
8WD14		IND	New Delhi to Beijing
8WD17		IND	New Delhi to Thimpu
8WD32		IND	New Delhi to Hanoi
8WD36		IND	New Delhi to Phnom Penh
8WD87		IND	New Delhi to Colombo

note: the 'XXXX' selcal may possibly be the general selcal for the MFA and not only for the Yangon/New Delhi link.

o Embassy callsigns and selcals.

38	MLD	Male
8WA3	MYA	Yangon
8WA11	BHU	Thimpu
8WA23	CHN	Beijing
8WA40	CBG	Phnom Penh
8WA46	VTN	Hanoi
8WA53	SLK	Colombo
8WB1	SRB	Belgrade
8WB2	AFG	Kabul

```
     8WB3            MAU    Port Louis
     8WB4            IRN    Teheran
     8WB7            SEY    Victoria
     8WW3            RUS    Moscow
            PPVF     ARS    Riyadh
            PPVK     EGY    Cairo
```

o Specific link frequencies.

```
  11147     New Delhi - Thimpu
  11155     Thimpu - New Delhi
  12104     New Delhi - Kabul
  12112     Kabul - New Delhi
  15755     New Delhi - Phnom Penh
  15917.8   Belgrade - New Delhi
  15917.8   Moscow - New Delhi
  15920     New Delhi - Yangon
  15920.5   New Delhi - Belgrade
  16372     Tehran - New Delhi
  16414     New Delhi - Yangon
  17535     Colombo - New Delhi
  17540     New Delhi - Colombo
  17541.8   New Delhi - Male
  18277.5   Port Louis - New Delhi
  18325     Beijing - New Delhi
  18407     New Delhi - Beijing
  18459.7   New Delhi - Hanoi
  18465     Hanoi - New Delhi
  18466.7   Male - New Delhi
  18469.3   New Delhi - Hanoi
  18724.5   Yangon - New Delhi
  19052     Victoria - New Delhi
  19055     Victoria - New Delhi
  19057.5   Victoria - New Delhi
  20375     New Delhi - Yangon
  20610     New Delhi - Hanoi
  20614.8   New Delhi - Hanoi
  20882.5   Port Louis - New Delhi
  20887     New Delhi - Port Louis
```

o Sample message formats:

```
Example 1: callup
-----------------
ryryryryry 8wa46 de 8wd32 ryryryryry
the quick brown fox jumps over the little lazy dog's tail
fig test: 11/22/33/44/55/66/77/88/99/00/1/2/3/4/5/6/7/8/9/0
int qrk int qru hr qtc

from: foreign new delhi (or f.n.d.)
to:   indembassy (or hicomind)

Example 2: callup
-----------------
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryry
this is the time for all good men to come to the aid of nation
fig chk 0000 qqqq wwww eeee rrrr tttt yyyy uuuu iiii oooo
int qrk int qrk hr qru hr qru qru hr qru hr qru ///
l
8wd7  8wd7  8wd7           de          8wb4 8wb4  8wb4
ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryry
this is the time for all good men to come to the aid of nation
fig chk 0000 qqqq wwww eeee rrrr tttt yyyy uuuu iiii oooo
int qrk int qrk hr qru hr qru qru hr qru hr qru ///

rrrrrrrrrrrrrrrrrrrrrrrrrr
rrrrrrrrrrrrrrrrrrrr
rrrrrrrrrrrrrrrrrrrrrr
br br br br gan gan agn gan gan gan
```

```
yr yr yr qrk qrk qrk qrk qrk 5/5/5/5/5/5/5/5/5/5/5/
hr hr hr qru qru qru qru qru qru ovovovovovovovovovovovovovo
```

Example 3 Typical off-line encrypted message format

```
foreign new delhi
part two and final part

1/346 02545 10617 dvzvh qztlx tnwls qamth esier dgqaq nfccc
sjxri qzvun idkfn ogjyf razqe gfmnn onlko trmnd asmdb nxkth
<clip clip clip>

indembassy,moscow
too:1846
thi:1910/10
nnnnnnnnnnn

zczczc
nr:708   ou   gr:204   011855
etat tpty most immediate
foreign new delhi

part two and final part
1/346 02545 10617 dvzvh qztlx tnwls qamth esier dgqaq nfccc
sjxri qzvun idkfn ogjyf razqe gfmnn onlko trmnd asmdb nxkth
tnfiw sgusn gajzw fgrsx qbfzu mlurp zmaoc dpwhz hlnmq kpnam
<clip clip clip>

indembassy,moscow
too:1846
thi:1910/10
nnnnnnnnnnn

int  qsl nr 708 int qrv next  pse  wt   ccn ccn ccn ccn cnccn ccn
ref nr 708 group jattw  after that it is boqcc boqcc boqcc boqcc is the
grpoup after jattw on the 17nth line of nr 708 int qsl nr 708 int qrv ne
xt pse??????

bbbbqrv qrv qrv qrv qrv qrv    for for     nxt nxt nxt  msg msg msg vovo
vovovovovovovovovovovovov    [waits for reply on QSX]

rrrrrrrrrrrrrrrr
rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
```

<credits: Day Watson, Murray Lehman, WUN, Mike Chace, CIA World Fact Book>

Press on HF

Markus Buttinger (markus-b@ping.at) sent us the skeds for Xinhua and MAP in Morocco. As I mentioned in an earlier edition of the Digital Review, XINHUA will discontinue their shortwave broadcasts on Dec 31, so you have only a few days left to copy them folks!

Their sked is as follows:

00:30-03:00	9417, 9491, 14923	English / 75 Bd
06:30-09:30	14367, 14923, 18872	English / 75 Bd
10:30-13:30	10982, 14367, 18872	English / 75 Bd
11:30-14:00	17446	French / 50 Bd
14:30-17:00	9615, 11680, 12230	English / 75 Bd
15:30-19:30	11133	French / 50 Bd
18:30-20:00	9417, 9491, 9615	English / 50 Bd

MAP (Maghreb Arabe Presse, Morocco) sked:

09:00-10:30	18496,1	Arabic (except Fridays)
10:00-11:30	10595.2, 14760,	French (except Sundays)
	15654.9, 18220.9	-"-
	18265, 18171.1	-"-
	12:00-14:00	15654.9, 18220.9 English (except Sundays)

	18265, 19171.1	
15:30-17:00	18496.1	Arabic (except Fridays)
	10595.2, 14760,	French (except Sundays)
	14654.9, 18220.9	-"-
	18265, 19171.1	-"-

Persian Gulf and Indian Ocean Oil Survey, Supply
and Pipe Laying Operation. by Mike Chace
---

o Frequencies.
  8221.5 kHz referred to by operators as "8220".
  3291.5 kHz
  3208.5 kHz referred to by operators as "3207" and seems
  to be used by the "ameera" group only

o Modes.
  Sitor-A and Sitor-B

o Vessels.
  The majority of vessels are chartered from the following companies:
  * International Marine Services Inc, Sharjah
  * National Marine Services, Abu Dhabi
  * Awal Construction & Trading Co, Dubai
  * Gulf Marine Maintenance & Offshore Service, Dubai
  * GAC Marine, Abu Dhabi
  * Al Bruq Marine, Sharjah
  * National Petroleum Construction Co (NPCC), Abu Dhabi
  * Nico International (UAE), Dubai
  * Selat Marine Service Co Ltd, Sharjah
  * Whitesea Shipping & Supply Co, Sharjah

Alioth	-tow tug	Alkaid	-tow tug
Al Jaber-14	-landing craft	Arifa	-supply vessel
Azraq	-supply vessel	CB-i	-cargo barge
CB-ii	-cargo barge	CB-iii	-cargo barge
CB-iv	-cargo barge	CB-v	-cargo barge
Celina	-tow tug	Conco-iii	-survey vessel
CP-5375	-cargo barge	DLB-750	-derrick-lay barge
GAC-61	-cargo barge	GAC-63	-cargo barge
GAC-81	-cargo barge	GAC-186	-cargo barge
GAC-633	-cargo barge	Gmmos Champ	-tow tug
Gmmos Danah	-survey vessel	Gmmos Duke	-a/h tug
Gmmos Lara	-supply vessel	Gmmos Power	-tow tug
Gmmos Prince	-tow tug	Gmmos Star/Toota	-supply vessel
Gulf Wind-2	-a/h tug	HAM-602	-cargo barge
HLS-2000	-h/l ship	Intercommander	-supply vessel
John-h	-a/h tug	Justine	-tow tug
Kyla	-?	Lamtide 301	-supply vessel
LB-1	-?	Martha	-tow tug
Majed	-tow tug	Nico Glad	-supply vessel
NMS-208	-supply vessel	NMS-209	-supply vessel
Ocean King-1	-a/h tug	Ocean Knight	-tow tug
Ocean Discoverer	-tow tug	Ocean Diver	-tow tug
Ocean Master-1	-a/h tug	Ocean Pioneer	-tow tug
Ocean Service-3	-support vessel	Osa Trieste	-a/h tug
PLB-648	-pipe lay barge	Project Trader	-landing craft
Ronja	-a/h tug	Safa-255	-cargo barge
Safa-245	-cargo barge	Scorpio del Golfo	-wb
Selat Tenaga	-tow tug	SEP-150	-jack-up barge
SEP-250	-jack-up barge	SEP-350	-jack-up barge
Sindbad	-tow tug	Shahrazad	-tow tug
Stinger	-derrick lay barge	Talal	-?
Tameem-102	-cargo barge	Tameem RB-101	-cargo barge
Vivi	-tow tug	Willie	-?

  Key: h/l = heavy lifting
  a/h = anchor handling

wb = workboat

o Selcals.

csuq	26922	sep-350	jack-up barge	"danielle"
cviv	26050	dlb-1000	derrick lay barge	"ameera"
fdfd	88888	sep-250	jack-up barge	"layla"
fxkv				
ipip	55555			
kkav	23390			
ptxq	15012	plb-648	pipe lay barge	"waffa"
vxuv	20120			
xukt	81230	dlb-750	derrick lay barge	"deena"
yumv	17240	sep-150	jack-up barge	"jawaher"
a6kj		hls-2000	heavy lifting ship	"tammy"

o Companies and locations.
The main areas of operation of this network are:
1. A gas terminal construction project about 100km N of Bombay (Tapti)
2. Oil and gas terminal construction projects in the Persian Gulf

Companies and locations mentioned in dispatches are as follows:
NPCC - Mumbai (via waffa)
NPCC - Doha
ENRON - Houston
EMRON - Dubai
ENRON - Mumbai Tapti field (mumbai - india)
Abu Dhabi
U.A.E. Sharjah
U.A.E. Mussafah
Arcadia Shipping
Port Said
Qatar Ras Laffan
U.A.E Free Port
Qatar Mannai marine jetty
Total abk field ''00 complex''
ABB global engineering - Das

U.A.E Umm Shaif field	Oilfield, 25km E Das Island
U.A.E Das island	Small island, 150km ESE Doha
Arzanah	Small island, 150km SE Doha
Qatar / north field	
Qatar / m.m. field (ps2)	Maydan Mahzam Oilfield, 10km SE Halul
Qatar / Halul	Small Island, 150km NE Doha
U.A.E./ Zakum field	Oilfield, 75km NW Abu Dhabi
U.A.E / Zirku anchorage	Az Zarqa island, 25km SSE Das Island

Umm Said Jetty, Doha
Doha port
FCSC Mussafah
Goa

NPCC = National Petroleum Construction Co, Abu Dhabi
Mumbai = Indian name for the city of Bombay
ENRON = Houston based Natural Gas corporation.
ABB = Asea Brown Boveri Co.
Total = Total Oil Co.

o Method of Operation.
Waffa "waffa radio room" handles traffic to and from ships in each operational area. Each operational area appears to have a lead ship through which all traffic is routed. The lead ships and their corresponding areas of operation are as follows:

SEP-150	UAE total abk field
SEP-250	adgas das island jetty refurbishment
SEP-350	total - abk - abu dhabi, UAE total abk field
HLS-2000	Qatar m.m. (Maydan Mahzam) Field (ps2)
DLB-750	India Tapti Field (20.31.562N 72.06.413E)
DLB-1000	UAE Umm Shaif Field
NMS-208	UAE Umm Shaif Field

NMS-209 UAE Zakum Field
LB-1 India, Hazira

o Supplementary Information.
India. An ENRON affiliate signed a 20-year power purchase agreement with Maharashtra State Electricity Board in December 1993. The contract supports the first phase of an approximately 2,015 megawatt gas-fired power plant and related facilities, which will ultimately include a liquefied natural gas (LNG) terminal and harbor development near Dabhol, which is approximately 100 miles south of Bombay. Enron's proposed partners in the two-phase project are affiliates of General Electric, which is supplying equipment and is expected to acquire a 10% equity interest, and affiliates of Bechtel, which is the contractor and also is expected to acquire a 10% equity interest. Enron plans to reduce its current 80% equity interest to a 50% interest at final closing, which equates to an equity investment of approximately $135 million. Construction of the 695 megawatt first phase is expected to begin in 1994 and includes harbor development, fuel facilities, housing and related activities necessary to complete this project. Once the LNG supply contracts are obtained, the 1,320 megawatt second phase addition will be constructed

EOG (Enron Oil & Gas Co) continues to pursue other selected opportunities outside North America. EOG currently is actively involved in an effort to obtain joint venture concessions involving two oil fields (Panna and Mukta) and one natural gas field (Tapti) offshore India in the Bombay High area.

o Messaging.
From about 1900UTC daily, Waffa polls each lead ship/operational area eg "sep250" for traffic. This seems to be controlled via a mailbox/telex type system. Each lead ship wishing to transmit a message to Waffa appears to send the standard maritime 5 digit translation of its selcal followed by its location code eg sep250. As an example: $88888 sep250 Where "88888" is equivalent to selcal FDFD, corresponding to lead ship SEP-250, a jack-up barge operating in the Das Island jetty refurbishment project.

Following this logic, the selcal PTXQ appears to belong to Waffa which would indicate that Waffa is the aka (code name) for PLB-648, a pipe lay barge currently idle in Mussafah. The exception to this rule appears to be lead ship HLS-2000 aka "tammy" which always logs on to the system as "a6kj hls2000" rather than by selcal as above.

After connecting to Waffa as above, the lead ships send messages to Waffa headed; "Deena", "Jawaher", "Tammy", "Danielle", "Ameera" or "Layla". The lead ships, together with the appropriate locations, and their flotillas are as follows:

Deena: (DLB-750, for "enron - mumbai", India Tapti field)
DLB-750, Stinger, Ocean King-1, Gmmos Duke, Safa-255, Gmmos Danah, Project Trader, Alioth, Alkaid, Safa-245, Nico Glad, CP-5375, Selat Tenaga, GAC-63, Martha, CB-iii, Ocean Knight, GAC-81, Majed, Gmmos Champ, CB-iv, Celina

Jawaher: (SEP-150, UAE Total ABK field gas project "00 complex")
SEP-150, Kyla, Azraq, Willie

Layla: (SEP-250, for "adgas" Das island, jetty refurbishment project)
SEP-250, Sindbad, Gmmos King, Ocean Service-3, Ocean Master-1, Justine, Intercommander, CB-v, Tameem RB-101

Danielle: (SEP-350, for Total ABK Abu Dhabi, Total ABK field gas project)
SEP-350, Azraq, Gmmos Lara, Ocean Master-1, Ocean Pioneer, Gmmos Prince

Tammy: (HLS-2000, Qatar m.m Field (ps2), for "a6kj hls-2000" Al Mannai)
HLS-2000, Gulf Wind-2, Vivi, Osa Trieste, Lamtide 301, GAC-61,

```
          Ocean Pioneer, Ocean Discoverer, Tameem-102

  Ameera:   (DLB-1000, UAE Umm Shaif Field and UAE Zirku)
            DLB-1000, John-H, Ronja, CB-i, CB-ii, Gmmos Power, Conco-iii,
            Gmmos Prince, Intercommander

  ?????     (India, Hazira)
            LB-1, Shahrazad, Gmmos Knight

  ?????     (Qatar North Field)
            Scorpio del Golfo

  ?????     (NMS-208, UAE Umm Shaif)
            NMS-208

  ?????     (NMS-209, Zakum Field)
            NMS-209

o Example message (this kinda messages and position reports are
  transmitted regularly by all lead ships).

  +?
  qw waffa
  +?
  ptxq ptxq ptxq ptxq ptxq ptxq ptxq ptxq
  $
     d e e n a
     ---------
     29/10/1996             den/299/mo/fe/kmj/enrn

     to   : enron - mumbai (via waffa)
            fax no. 0091-22-839-5182 / 839-5201.
     attn : mr. ......
     ----
     copy : mr. ......
     copy : mr. ......

     subj : odag daily vessel report from dlb-750 on 29/10/96
     ----   --------
     vessel name : dlb-750
     vessel type : derrick lay barge

     a) position as on 0700 hrs      tapti field
     b) future intention and passage particulars : 18'' pipe laying
        at tapti field
     c) nature of work undertaken in last 24 hrs : wx s/by
     d) nature of work intended in next 24 hrs   : 18'' pipe laying
     e) change / replacement in any crew members : nil
     f) movement particulars of crew members     : nil
     g) any other information of interest        : nil

     vessel name :  ocean king a-nd dmmos duke
     vessel name : anchor handling tugs

     a) position as on 0700 hrs      : tapti filed
     b) future intention and passage particulars : anchor handling for
      dlb-750
     c) nature of work undertaken in last 24 hrs : running anchors
     d) nature of work intended in next 24 hrs   : assist dlb750 in
        positioning
     e) any change / replacement in any crew members : nil
     f) movement particulars of crew members   : nil
     g) any other information of interest     : nil

     vessel name : gmmos champ + c/b cb-iv
     vessel type : tow tug / cargo barge

     a) position as on 0700 hrs         : e/r to abu dhabi
```

e.t.a - 29/10/96
b) future intention and passage particulars : under tow to auh
c) nature of work undertaken in last 24 hrs : under tow to auh
d) nature of work intended in next 24 hrs : under tow to auh
e) change / replacement in any crew members : nil
f) movement particulars of crew members : nil
g) any other information of interest : nil

vessel name : project trader
vessel type : landing craft (loaded with spare stinger)

a) position as on 0700 hrs : tapti anchorage
b) future intention and passage particulars : stand by
c) nature of work undertaken in last 24 hrs : stand by
d) nature of work intended in next 24 hrs : stand by
e) change / replacement in any crew members : nil
f) movement particulars of crew members : nil
g) any other information of interest : nil

vessel name : gmmos danah
vessel type : survey vessel

a) position as on 0700 hrs : e/r to tapti fld
b) future~intention and passage particulars : surv.asst. dlb-750
c) nature of work undertaken in last 24 hrs : s/by / wtg on wx
d) nature of work intended in next 24 hrs : surv. wtg. dlb-750
e) change / replacement in any crew members : nil
f) movement particulars of crew members : nil
g) any other information of interest : nil

regards,

supd't/fe/ch.clk
dlb-750
nnnn

PFRE and other stuff

Remember I asked about PFRE last month? Well, although I haven't got detailed info, I do know that the transmissions come from Hungary and that either the MOI or Border Forces are the users. Normally the call-signs change after a while but for some reason the YYYY and PFRE call-signs have remained the same for 2 years now.

A similar 50bd baudot station from the Czech Rep. (Prague) is currently on 2512 kHz. The station uses 5 different callsigns and sends its call-sign 3x plus a bunch of RY's every 15 minutes. The callsign changes every hour for 5 hours and then reverts. The carrier is non-stop on the air. I guess that the transmissions are not computerized because sometimes the pause between two transmissions is longer than 15 minutes -even up to 30 minutes- and the callsign sometimes changes after 1 1/2 hour instead of 1 hour, but in general the 'normal' procedure will be followed. The call-signs used at the moment are I6DH, TLXD, T2XS, ICMR and XN2B.
Possibly this station changes frequency and callsigns from time to time as last month a station using exactly the same procedure was copied on 2257.9 kHz. It used the following callsigns: KW4R, CLX7, HZ6Z, MHTL and E4BK. The latter freq is silent now while 2512 was silent last month. For that reason I think that this is the same station.

Right, that's all for now. Have a wonderful time. See you all next year!

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T H E W U N M I L I T A R Y C O L U M N
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No column this month due to Paul having computer problems

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Utility Monitoring in the Maritime Bands
Editor: Day Watson (jdwatson@cableinet.co.uk)
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Hi MariWUNners

What better for Christmas than a bumper bundle.

QTC list:

- Abuse in GMDSS communications
- Frequency lists, UKHO and ALRS
- Non-paired ship telex (introduction)
- Non-paired ship telex (12 mhz - 34 channels)
- St Lys/FFL
- Norddeich/DAN + Rugen/DHS
- Station overview
  - St Petersburg Radio/UGC
  - Mobile Radio/WLO
- Grandeur of the Seas
- Shipping snippets

++++++ Abuse in GMDSS communications

September time I think it was when I posted a string of distress alerts from a GMDSS HF DSC channel and this was followed by a like posting from Ed Deasy in late October. A subsequent posting by Glenn Dunstan led me to do some daily monitoring to disc of said channels whilst I was at work.

But before we start let's take a brief look at WHAT SHOULD HAPPEN.

The purpose of the Global Maritime Distress and Safety System GMDSS communication procedures is to use exclusive HF digital selective calling (DSC) channels as one of the means of ship to shore ALERTing.

Ship goes into distress state for whatever reason. She wishes assistance and sends an ALERT. This would be done on one of the five HF bands with 8414.5 khz being a likely first choice.

How done on HF (there are other alternatives)? A distress ALERT is sent in the form of a short DSC packet whose format contains the following information.

Format specifier	DISTRESS
Self identity	Ship's 9-digit MMSI number
Nature of distress	One of ten defined definitions eg Fire or sinking or collision etc
Distress coordinates	Ship's position
Time	Time position was valid
Telecommand/subsequent communication	Mode and frequencies for subsequent communication.

Which freq on HF?

(MF) 2187.5 (HF) 4207.5 6312 8414.5 12577 16804.5 khz.

These have been designated internationally as to be "used exclusively for distress and safety calls using digital selective calling" in accordance with various World Administrative Radio Conference for the Mobile Service 1987 (WARC Mob-87) agreements and part of the ITU Radio Regulations as they

address GMDSS.

The ship would choose one of these for its initial call bearing in mind the time of day and the distance it is from likely recipients.

Who is listening?

a. Coast stations - Those assuming a watch keeping responsibility in the GMDSS will maintain a watch on the above frequencies and for the periods of time as indicated in the information given in the ITU List of Coast Stations.
To date a number of stations are operational in monitoring the HF frequencies (more are planned) and these are:
Lyngby, Barcelona, Piraeus, Teneriffe, Las Palmas, Tema, Capetown, Hong Kong, Tokyo, Perth, Sydney, Argentina, Boston.
There are too many to list who are monitoring 2187.5 khz.

b. Ship stations - With the full implementation of GMDSS ship stations (I am assuming those making ocean passages without going into an explanation of areas) amongst other frequencies must maintain a continuous watch on 2187.5 and 8414.5 khz plus on at least one other from the remaining four of the above list, appropriate to the time of day and the geographical position of the ship. This may be by means of a scanning receiver.

Scanning receivers will sample all frequencies in under 2 seconds, the DSC packet itself having a long entry sync pattern allowing the receiver to stop scanning on receipt and decode the subsequent data.

The ship sends a DSC ALERT - what happens next?

All ships receiving the distress ALERT should note the information received, consider it in regard to their own position and ability to give assistance. They should NOT acknowledge but wait for at least three minutes for a coaststation to acknowledge.

All ships (the ship in distress/ships receiving the ALERT) should prepare for subsequent distress traffic by retuning to the distress traffic channel. This will normally be the RT channel associated with the band where the ALERT/acknowledgements were passed. Eg if the DSC ALERT was sent on 8414.5 the normal distress traffic channel would be 8291 khz USB simplex where the ship in distress would initial traffic with a MAYDAY RT call.

The ship in distress should normally receive an acknowledgement from a monitoring coaststation in the form of an ALL SHIPS message which also indicates to other ships that the shore authorities are aware of the casualty.

The purpose behind this is that the ship in distress can initially ALERT the shore authorities who can acknowledge the ship. They (the shore authorities) can assume search and rescue (SAR) responsibilities for the ship (assuming it is in their area), or transfer that responsibility to the appropriate SAR regional control centre (RCC). Since we are dealing with a simplex channel as far a ship and shore is concerned those ships receiving the ALERT hold off acknowledging for this period to permit time for a receiving coaststation to acknowledge or the ship in distress to make single or multiple frequency ALERT attempts.

In normal conditions this is the end of the ALERT phase. Procedures are in place should a coaststation not acknowledge the ALERT but that is beyond the scope of this article.

So back to the problems.

Ed on the 22/Oct posted a series of GMDSS DSC packets monitored on 8414.5 khz. The first was a Distress call from a Panamanian ship (MMSI suggests Atlantic Highway/3FHB4 or Azalea Ace/3FAL3 in position 0.20S 2.00W. Four ships acknowledged/relayed to ALL SHIPS within 3 mins the latter three

obviously having picked up the acknowledgement of the first as they all had the same incorrect Longitude of 802.00W.!!!! 8 mins after the ALERT Sydney Radio acknowledged with the correct position i.e. same as Ed whose decoder had indicated no checksum error on the packet.The ship position was in the Ghana's SAR region - I expect Sydney would have informed them by telex of the casualty. Four further Distress Relay and Distress Acknowledgements were sent by ships to ALL SHIPS after the end of the ALERT phase.

The following day Glenn posted as follows:

"This is a GRAPHIC illustration of what is wrong with the GMDSS ...

The GMDSS rules for use of the DSC state that a ship receiving a DSC distress alert on the HF DSC channels (ie above 2 mhz) is NOT to relay it to all ships, but to a specific coast station. As you all saw, we had ships (with either poorly trained operators, or operators with NO training) relaying messages and acknowledging left right and centre. The biggest irony is that the original call was probably as mistake anyway and the position was most probably wrong.

We receive a false distress alert at Perth and Sydney radio on DSC at least once every two days. The false alert rate with DSC is more than 98 (yes, 98) percent.

DSC is becoming an end in itself - it is really supposed to be a paging system, and all users are SUPPOSED to get on to the radiotelephony channel for the band in use ASAP. In this case, the ship in distress (?) should have sent his alert, then changed to 8291 khz USB and sent a voice MAYDAY message.

This plethora of traffic from other ships (who are supposed to shut up and listen..) is seriously clogging up the DSC system and fostering extreme skepticism amongst SAR authorities."

Ed in a reply to Glenn and myself rather pessimistically observed "An unfortunate notion that has been circulating is that it is a way to replace a Radio Operator. Of course, this will eventually result in someone needing to replace an entire ship". I trust not Ed.

The above indicates lack of or poor training, but this is not the only thing. Subsequent to the above postings/exchanges I have carried out quite a few monitoring sessions lasting often 10-12 hours on different bands.

As a result the following observations are made.

1. 30 to 40 packets can be received over 10-12hours.
2. In these a very small percentage is Distress + Safety related.
3. The majority is intership calling by DSC.
4. Some are testing equipment by interfacing with a coaststation.

These channels as stated above are to be used EXCLUSIVELY for Distress and Safety purposes. So these calls are starting to interfere with what should be an otherwise clear channel. As time progresses more people will do this and problem will worsen.

In each band there is provision for a simplex frequency for D + S use and three pairs of duplex frequencies for Ship/Shore DSC calling (I don't know of any coaststation with active DSC facilities for public correspondence). There is none provided for intership DSC calling. Those ships monitored are using the fact that the called ship has a scanner running round the D + S DSC channels.

These ships are difficult to identify. Trying to use the ITU database on the web soon shows that not many of the MMSI numbers seen can be resolved into Ship names/callsigns. In fact delving into my reference - a weighty tome called the GMDSS Handbook published by the International Maritime Organization (IMO) - I see a sub-committee noted that the ITU listing of MMSIs was not up to date and that consequently RCCs where

having difficulty in identifying ships in ALERTs. The committee was urging Administrations in effect to get a move on. This was dated Jan 94!!!! Glenn assures me Australia is not in this category.

The same operators are either poorly trained or just blatantly ignoring the radio regulations. This is further indicated by the frequencies being suggested for subsequent communication often being non-authorized as far as frequency or mode is concerned within the maritime service.

One packet, non-distress was seen coaststation to coaststation with Italian MIDs in the MMSI - this can logically be narrowed to either Rome or Genoa Radios.

Live testing is permitted with a coaststation provided the Category is SAFETY and the Telecommand is TEST. Too many were incorrect.

Will the situation get better ? - not for a while. My tome gives another insight. Sub committee session in January last year noted that only a small proportion of ships had converted for full GMDSS implementation. In spite of this they understood that certain shipowners or ship operators would not convert their ships until closer to the deadline of 1 Feb 99. Japan Radio Company's submission indicated that an extremely congested retrofit of GMDSS ships would occur at about 1.5 years before the deadline. Manufacturers are advising administrations that excessive stockpiling before then could not be afforded.

In the case of training the committee indicates that at GMDSS implementation all deck officers be properly certificated for GMDSS. Worldwide the number is estimated to be around 250,000. This means training 4000 persons every month over the next five years worldwide!!!

More views next month from Sweden on the subject - watch this space.

++++++ Frequency lists, UKHO and ALRS

How often has one seen the comment "If only the frequency lists were more up to date".

We all use various frequency lists covering a broad ground - I see Ferrell's CFL/9, Klingenfuss's Utility 96, Radiofax 95 and Radio Data Codes, Brannolte/Siebel's Spezial-Frequenzliste 96 and SEEFUNK, Spa Publishing's Short Wave International Frequency Handbook, Ontario DX Association's Aeronautical Communications Handbook (HF Edition) to name but a few adorning my bookshelves.

Some of these are published annually with others less frequently, some only on a one-off basis.

Within these periods, even annually, a lot can and does change. We will be aware from own workplace how the rate of change affects our every daily function. One is frequently harangued about "managing change". The production of frequency lists is no different. Let's consider the causes of change affecting these lists.

Automation of telecommunications systems (Telex replacing labour intensive (CW) methods), remoting of systems (coast stations being controlled from a central point, change of procedures (GMDSS), use of satellites. These are medium/longterm changes. In the short term we have the rise/fall of telecommunications demands internationally where we have crisis in the forms of manmade (bush-wars) and natural disasters. Various services have seasonal variations due to propagation and the rise/fall due to commercial demand.

The integrity of the above documents must therefore depend on the quality of input (skill and number of contributing monitors, and sources of information), the work carried out in producing said document and the period between editions.

For the commercial community even this might not be enough. Here we move to

the specialization of documents for the service concerned. In the aero world (of which I admit to having little knowledge) there are various supplements to flight documents. The maritime communications world is served by professional documents produced by various national administrations; in the UK it is the Admiralty List of Radio Signals produced by the UK Hydrographic Office (UKHO) at Taunton in the West of England.

I was delighted to visit the UKHO to meet the ALRS editors at the beginning of November. Before I deal with their work let me have the UKHO speak for themselves as an organization:-

"The UK Hydrographic Office is a Government Agency responsible for meeting the national need for hydrographic products and services which contribute to safe and effective navigation at sea. Our products also contribute to the protection of the marine environment and help international maritime trade. We are an organization with a truly international outlook, working with other hydrographic offices around the world to ensure that the mariner has access to all the available information essential for safe navigation.

Although it is perhaps best known for the renowned series of Admiralty charts and associated publications, the UKHO is also developing a range of digital products designed to meet the needs of the navigator of the future. ARCS, an electronic facsimile of the Admiralty chart, is the first of these products. An increasing number of manufacturers are now incorporating ACRS data in systems ranging from laptop PC's to integrated bridge equipment. We also plan to introduce an Electronic Navigational Chart (ENC) Service in 1997, which will provide the navigator with the additional capability of interrogating and layering the charted data."

Their products, available in the UK and internationally through a network of Admiralty chart agents, consist of ARCS, Admiralty charts, publications (Sailing Direction, Lights, ALRS, Tidal to name but a few) together with Weekly Notices to Mariners, Wreck information etc.

ALRS is managed by a small team of 8. There are currently 6 Volumes.

Vol.1(2 parts)	Coast Radio Stations
Vol.2	Radio Navigational Aids, Electronic position fixing systems and radio time signals.
Vol.3(2 parts)	Radio weather services and Navigational warnings
Vol.4	Meteorological observation stations
Vol.5	Global maritime distress and safety system
Vol.6(3 parts)	Vessel traffic services, Port operations and Pilot Stations.

Over twenty five years ago when I was last at sea the books were published on a basic 2 year basis, and A5 in size. Today they are issued (bar Vol.4) on a yearly basis, are A4 in size and multi-part (each an individual document) as required - much better for managing corrections.

Corrections are provided weekly and form Section 6 of the Admiralty Notices to Mariners. This document is free of charge.

Each volume above is managed by an individual Editor. The Editor has to sift through a great deal of information which continually passes over his/her desk. This information comes automatically on a regular basis from other hydrographic and telecommunications administrations, from reading of like documents from other administrations, not always in English, and not always in a comprehensible format.

Another source of information comes from ships themselves, and occasionally other observers, where an error, change or existence is noted. This then is cross referenced with other input against the same station. If necessary the Editor tries to make suitable contact by telephone, fax, or telex with the appropriate administration - not always an easy task - some administrations need to have the relative information pried out of them. A skill in getting information as an editor here appears to be helped by building a network of contacts.

Once the need for a correction is established that correction is assembled

in a word-processor thereby entering the typical publishing production chain with all the other corrections for this series and other documents.

In addition to this work the actual layout and provisioning of data within the volume is given continual assessment with a view to improving the overall structure of the next release commensurate with views being fed back from users. For example in Volume 3 which gives details of weather broadcasts, maps are now being added showing the areas covered by certain FAX charts previously only listed as lat/long in the map index, and the Schedules are now given by grouping the chart type with it's times of transmission. One might only be interested in surface analysis - times for that are immediately seen without having to run down a long chronological list weeding out surface analysis.

These books of course are more than just a frequency list but are specialized commercial working documents giving details of times, frequencies, watch keeping practices, areas covered etc, etc, etc. For the average monitor they may be expensive (approx 20 UK pounds per document). For myself as Nautical News editor I see it as a good investment (I have Vols 1/3/5 - a valuable research tool in writing the column and answering WUNners queries (barring QSL addresses)) and one which is being brought up to date as much as is humanly possible on a weekly basis.

My thanks to my host Martin Travers and to his sectional colleagues at UKHO for a most enjoyable visit and chat.

++++++ Non-paired ship telex (introduction)

In each of the maritime bands is a section of frequencies allocated to non-paired (independent) use by ship station. These are not part of the duplex pairing system which is limited to ship/shore arq (Sitor-A) system for fully automatic operation. These channels are used for ship/shore use (typically Russian ships to coaststations using either arq or rtty), intership working arq or rtty, ship broadcast (typically Filipino ships relaying news from Manila using Sitor-B (fec). Also naval ships using an online encrypted mode (typically 75bd/850hz with 64 reversals (ry's) lead in).

In the next few months the column will have a table of one of the bands non-paired ship telex section with currently known information. The intention is to highlight the USE being made of these channels. ie modes logged, and use made of or to whom. Also whether third-shift Cyrillic (3sc) is employed. This exercise tests patience and detective skills.

Log as usual, but where you can add to the table email me direct for updating. This month's table for 12Mhz follows. Next month will be 8 Mhz 36 x 0.5khz channels 8396.5-8414 kHz.

++++++ Nonpaired ship telex (12 mhz - 34 channels)

Freq.	Modes logged	Comments
12560	150/850 encryp	NATO ship ?
12560.5		
12561	fec	German px ended 1700z - intership?
	cw	Russian
12561.5		
12562	cw	Russian non-cyrillic
	3sc 50/R/170	
12562.5	rtt 50/R/170	working?
	3sc 50/R/170	working Kaliningrad/UIW
12563	3sc 50/R/170	working?
12563.5	arq	Goeteborg SAB63 [Maritex] [selcall QSPV]
12564	75/850 encryp ACF64	NATO ship to ?
12564.5	3sc 50/R/170	working Tallinin ?
12565	arq	working? Russian language
	3sc 50/R/170	working?

12565.5		
12566	3sc 50/R/170	working Sevastopol/URL
	75/850 encryp ACF64	NATO ship working?
12566.5	3sc 50/R/170	working Odessa/UUI?
12567	3sc 50/R/170	working?
12567.5	3sc 50/R/170	working?
12568		
12568.5	3sc 50/R/170	working?
12569		
12569.5		
12570		
12570.5		
12571	arq	working Arkhangelsk/UCE [selcall KYVF]
12571.5		
12572	75/850 encryp ACF64	NATO ship to ?
12572.5		
12573		
12573.5		
12574		
12574.5		
12575	cw	Russian
12575.5		
12576		
12576.5		

Get the idea? Now continue the detective work to convert "working?" to a definative station. Thanks to John Doe, London, for some of the above and who also noted a couple of his loggings 100hz low on channel.

+++++ St Lys/FFL

By the time this newsletter hits the streets St Lys will have ceased HT WT services (from 16/Dec/2300z). Automatic telex services are maintained but ship's will have no recourse to operator assistance between 2300 and 0700z. RT is only available days/evenings from 0700-2300z.

+++++ Norddeich/Dan + Rugen/DHS

The end of the month will see the final downgrading of Norddeich with the withdrawal of its MF RT service. At the same time that of Rugen will also cease.

++++++ Station overviews

++++++ St. Petersburg/UGC

Location: Russia at 59.59N 30.21E

WT service

Marker: "de UGC qsx 6/8/12/16 k"
QTC lists: Every OH+30 on 6425 8687.6 12693 17115
Watch keeping: Listens for calls on the active bands channel 8 from H+05 to H+15.

3540	
4315	Listed F1b by SEEFUNK
6354	
6425	
6481	
8575	
8600	Listed F1b by Klingenfuss
8687.5	
12693	
12925.5	
13030	Listed F1b by Klingenfuss
16970	Listed F1b by Klingenfuss
17010	Listed F1b by Klingenfuss + SEEFUNK

17115

Telex service

Station nr. 3737 ---> selcal KYKY
Marker: "UGC" and tuning bursts

UGC	Ship	Chan	
2625			
3215			Logged with Sitor/CW marker
6325.5	6274.5	[624]	
6370			
8436.5			Note 1.
8677.5			Logged with Sitor/CW marker
12632.5	12530.5	[12108]	
16846	16723	[1680]	
19693	18882.5	[1825]	
19734.5			Logged with Sitor/CW marker

Note.1 This is coaststation DSC calling (NOT GMDSS) channel paired with ship frequency of 8415. Not known if implemented.
Note.2 Some of the above channels will use 3SC//50/R/170, and the unlisted ship frequencies are likely to be in the nonpaired ship telex channel section of the spectrum.

RT (HF) service

Calls by prior arrangement on WT

UGC	Ship	Chan
4396	4109	[414]
8737	8313	[807]
13086	12239	[1204]
17254	16372	[1605]
22732	22036	[2213]

Address:
Baltic Shipping Co.,
5 Mezhevoy Canal,
198035 St. Petersburg
Russia

Acknowledgements:
ALRS Vol.1(96/97) and Vol.3(96/97)
Brannolte/Siebel SEEFUNK
CFL/9
Klingenfuss Utility Guide 96

++++++ Mobile Radio/WLO

Location: United States at 30.42N 88.02W

WT service

Marker: "de WLO obs? amvers? qsx 4 6 8 12 16 22 mhz chan 5/6 " alt "3/4"
Traffic lists: on 4343 6416 8514 12886.5 17022.5 22487
at every H+00 using WT.
Wx: On the above freq after the tfc lists.

4250
4257.5
4343
4462.5
6416
6344
6446.5

8445.5
8473.5
8514
8534
8658
12660
12704.5
12886.5
12992
13034.9
16969
16997.6
17022.5
17173.5
22487
22686.5
22688
26123

Telex service

Station nr. 1090 ---> selcal XVSV
Marker: "WLO" and tuning burst indicates frequency pair available
Traffic lists: on 4343 6416 8514 12886.5 17022.5 22487 at every H+35 using fec.
Wx: On the above frequencies in fec after the tfc lists.

WLO	Ship	Chan	
4213	4175	[406]	
4215	4177	[410]	
4217	4179.5	[415]	
4218	4180.5	[417]	
6317	6265.5	[606]	
6319	6267.5	[610]	
6321	6270	[615]	
6323	6272	[619]	
6325.5	6274.5	[624]	
8419	8379	[806]	
8421	8381	[810]	
8423.5	8383.5	[815]	
8430.5	8390.5	[829]	
8432	8392	[832]	
8434	8394	[836]	
12581.5	12479	[1205]	
12584.5	12482	[1211]	
12586.5	12484	[1215]	
12591.5	12489	[1225]	
12593.5	12491	[1229]	
12596	12493.5	[1234]	
12599	12496.5	[1240]	
12604.5	12502	[1251]	
12606	12503.5	[1254]	
12609.5	12507	[1261]	
16809	16685.5	[1605]	
16812	16688.5	[1611]	
16814	16690.5	[1615]	
16818.5	16695.5	[1625]	
16820.5	16697.5	[1629]	
16826	16703	[1640]	
16828	16705	[1644]	Beamed tropical N Africa/W Africa
16831	16708	[1650]	
16833	16710	[1654]	
16836.5	16713.5	[1661]	Beamed N Atlantic/W Europe/Mediterranean
19685.5	18875	[1810]	
22381	22289	[2210]	
22383.5	22291.5	[2215]	
22403	22311	[2254]	

22404	22312	[2256]
22406	22314	[2260]
22407	22315	[2262]
22412	22320	[2272]
22418	22326	[2284]
26105.5	25177.5	[2510]

RT (HF) service

QTC list: Every H+00 on 4369 8713 8803 13179 17380 22831
Wx: On the above freq bar 8803 at 0000 0600 1200 1800

WLO	Ship	Chan
4351	4060	[428]
4369	4077	[405]
4396	4104	[414]
4411	4119	[419]
6519	6218	[607]
8788	8264	[824]
8803	8279	[829]
8806	8282	[830]
8713	8113	[836]
13110	12263	[1212]
13149	12302	[1225]
13152	12305	[1226]
13173	12326	[1233]
13179	12332	[1235]
17260	16378	[1607]
17362	16480	[1641]
17368	16486	[1643]
17380	16498	[1647]
19773	18798	[1807]
22804	22108	[2237]
22819	22123	[2242]
22831	22135	[2246]
26151	25076	[2503]

Address:
7700 Rinia Avenue
Mobile, Al.
36619-1199 United States of America

Acknowledgements:
ALRS Vol.1(96/97) and Vol.3(96/97)
Brannolte/Siebel SEEFUNK
CFL/9
Klingenfuss Utility Guide 96

++++++ Grandeur of the Seas

Listen out for Grandeur of the Seas the latest and largest cruise liner in RCCL's fleet, being almost 280m in length and having a 22 knot capability with a 2,400 passenger capacity. Her naming ceremony was in Miami on Dec 13 and after the party started paying her way offering a cruise itinerary giving four full-day ports of call: Labadee in Haiti, San Juan, St Thomas, and CocoCay in the Bahamas.

Sorry folks but she still doesn't pop up in the ITU MARS website. Anyone discovered her callsign yet?

++++++ Shipping snippets

A few items - thanks to Steve Schultz (SHIPs list).

Canal rates.

On 22 Nov the Panama Canal Commission voted on 22 Nov. to increase tolls and to charge for on-deck container space. The general toll rate will

increase by 8.2% from 1 Jan 97, and another 7.5% on 1 Jan 98. The charge for on-deck container space is scheduled to go into effect 1 July 97, to allow time for firms to prepare for the new measurement rules.

The Suez Canal Authority announced on 24 Nov that transit fees for all ships travelling through the Suez Canal will remain unchanged next year. The current rates were set in 1994. Several incentives involving discounts were also announced. Maximum toll for a round-trip by any tanker, loaded or in ballast, is about U.S.$475,000, regardless of the ship's net tonnage.

Casualty summary

The Institute of London Underwriters announced on 25 Nov. that 22 vessels over 500gt were lost in the 3rd quarter, totaling more than 211,933gt. The total number of ships lost in the first nine months of the year is 75. A total of 931 people were killed or reported missing.

China to join GMDSS

China will join the Global Maritime Distress and Safety System, following the signing of a radio equipment import contract in Beijing on the 28 Nov. The U.S.$10 million agreement was signed between the China Transport Telecommunication Center under the Chinese Ministry of Communications and Japan Radio Co. Ltd. The equipment will be installed in 18 radio stations in Chinese coastal cities including Guangzhou, Shanghai and Tianjin. A satellite ground station has been set up in Beijing. The Shanghai facility will cover the area from the Bering Strait to Singapore, while other facilities will cover out to 184 kilometers/115 miles. The system will start operation in 1998 and officially open 1 Feb., 1999.

One liners (thanks to Fairplays).

Iraq has sent oil to the world market for the first time in six years.

Italian classification society RINA opened a new office in London 11 Dec to increase the flow of Italian owned ships towards offshore Red Ensign flags.

European Union environment ministers have closed a legal loophole which allowed hazardous materials to be exported to non-OECD countries.

Latest figures from the Kuala-Lumpur based Regional Piracy Centre have come under attack by the Federation of Asian Shipowners' Associations.

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Wishing you all season's greetings, peace and fulfillment in the New Year.

Day.

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New Products, Books, News and Reviews

Rick "RD" Baker, editor
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|Items to be reviewed, information about new products, books, software, or |
|events that would be of interest to the WUN membership, send them in care |
|of this column (not via the clubs D.C. address to save mail costs) |

"RD" Reviews

HOKA CODE-3 GOLD v1.1

Eagerly awaited by hobbyist all over the world, the Hoka Code-3 Gold is from Hoka Electronics of the Netherlands and is also distributed via their UK and North American distributors. Based on Hoka's Code 30 with extended DSP filtering, the new Hoka Code-3 Gold was thought to become the `poor mans' Code 30. So I was most eager to `rev the engine and kick the tires.' We send

a BIG thanks to Jim Springer at Computer Aided Technologies, the North American Hoka distributor, for sending me the review unit without strings attached.

I used a Compaq Pentium 90 running Windows 95 (in DOS mode, see later remarks) for the evaluation along with two radios; both Icom's, the R-72 and the R-71A. To compare performance to some degree, I used my Universal M-1000 decoder card.

SYSTEM REQUIREMENTS

Hoka Code 3 Gold will not run in Windows 95, Windows 3.1, O/S 2 or other muti-tasking environments. On my Win95 machine, I had to run it in DOS mode. Otherwise it needs an IBM PC or compatible using a 486DX/33 (or faster) processor, MSDOS v5.0 or later, and at least 640 k RAM. Of course you need an open serial port. Both VGA and SVGA monitors can be used. You will need almost 3 megs of free hard drive space for installation.

INSTALLATION

Installation of the software was easy and straight forward. The software for `Gold' is not copy protected like that of big brother Hoka Code-3, so it may be installed on more than one machine in your shack, without fear of running out of `installs'. The hardware set up is also fairly easy to get down. Com ports 1 through 4 are supported. You need to select your graphics mode, com port and center frequency.

Now came the time to connect the `LF5 interface'. The LF5 looks a lot like a 9 pin to 25 pin computer cable adapter, with a 9 pin connector on one end and a 25 pin connector on the other and a wire dangling out the side for audio that requires an RCA male jack for input. It's a bit bizarre looking in that it's so small and with it's 9/25 pin ends. So I started actually having to read the manual to what went to which end. I got up to Chapter 6 in the manual and still had no clue. But if one goes on to Chapter 9 (!!), "General Installation', we find out that either end may be used depending on what your computer uses, and the LF5 gets plugged in right at the port. I guess the rationalization is that you will read all about Gold's operation before one tries to install it, so installation details go into Chapter 9. Right! Well silly me, I was looking for a much more complicated solution. I found the 66 page manual both helpful and a tad frustrating at times, such as finding installation details in Chapter 9 -hi! But in all fairness, there is a table of contents/index in the front of the manual that gives a reference to where things are. Just don't assume and read the whole thing carefully would be my advice. In any case, an hour later I'm plugging in my audio cable (I tried the phone plug, recorder, and audio out which all gave equal results) and I'm ready to `Rock and Roll' as they say (well someone must have once said it!). The unit requires no power supply at all.

OPERATION

Anyone having used big brother Hoka Code-3, will find a lot of the same operations on Gold, plus a few added ones. For those having been brought up on Universal equipment, your in for what may be a learning curve.

Gold does offer an optional HF modes package. HF modes include: Annex 10 (for decoding aircraft selcal's); ARQ-6-70; ARQ-6-90/98; ARQ-E and ARQ-N (ARQ1000 duplex); ARQ-E3; ARQ-S (ARQ1000S); ARQ-SWE (SWED-ARQ); ASCII, AUTOSPEC with SPREAD 11, 21 and 51; BAUDOT (RTTY), BAUDOT F7BBn (2 channel ITA-2 RTTY); COQUELET Mk1 and Mk2; DUP-ARQ (ARTRAC); FACSIMILE (AM/FM); FEC-A (FEC100A, FEC101); FEC-S (FEC1000S); HELLSCREIBER; HC-ARQ; HNG-FEC; MORSE/CW; PACKET (AX25); PACTOR; PICCOLO MK VI; POL-ARQ; ROU-FEC (RUM-FEC); SITOR-AUTO (SITOR-A/B or ARQ/FEC, and NAVTEX); SITOR-ARQ (ARQ or Sitor-A); SITOR-FEC (FEC or SITOR-B and NAVTEX); TDM242 ARQ-M/4-242 (ARQ-M4); TDM342 ARQ-M2/4 (ARQ-M2); TIME (DCF-77); TORG-10/11; GMDSS and TWINPLEX.

VHF modes include: ACARS; DTMF; POCSAG/Super POCSAG; and VHF GMDSS.

The `tuning' of a digital signal can be accomplished by several methods. I found centering the signal on the Oscilloscope screen (F2), then going to the Auto-Analysis module, where the first screen is used for shift and baudspeed measurement, worked the best for me. One also selects the filters in this screen to reduce the bandwidth for the best signal by pressing [S] and 1 though 0, where 1 is 85 Hz, and 0 is 1000 Hz. 2 through 9 are values in between. This is true also in the decoding module (called the ASCII screen by Hoka). In Auto-Analysis, you can manually accept a suggested

mode or wait until the programs confidence level reaches a certain point and it automatically switches over to the proper decoding module.

I found the shift/baud-rate in Auto-Analysis depended greatly on the strength and type of signal. Baudot was fooled on baud rate many of the times. A few weaker, but commonly found modes, came up as `no conclusive data' in Auto-Analysis as to type of mode. The manual does point out that Gold may be fooled by weak signals and to use ones best judgement is selecting a preset baud rate. But on a good strong signal, it all clicks together and works great. On the plus side, latching onto and synching a high baud signal (over 100 baud) is far easier on Gold. The French Forces 192 & 200 baud stations for example, provided text that was 70 to 99% and the `tuning' was fairly easy to get synch. I also decoded FEC-A, ROU-FEC, Sitor-B, Packet and Pactor with signal/noise dependent results, but getting reads on the baud rate/shift worked much better with these modes and overall the results were much better in these modes in all categories.

On the VHF side, I only played with ACARS having never seen the mode before, and found it was very simple and easy to synch up with my Realistic Pro-34 scanner.

OTHER FEATURES

Gold features `Output to Disk' in most modules, where the text is saved as an ASCII text file which then can be viewed within the program. Another neat feature is the use of the Tab key when one is monitoring a station that switches between two modes. Rather than exiting out of one modes module, and going through all the settings again to get going in the second mode, the Tab key is set up to store all the settings. Then when you hit Tab, you are actually going back to the last module used, along with all it's settings.

The Auto-Analysis and Oscilloscope modules are selectable from almost anywhere in the program using the `hot' keys (F1 and F2).

I found the Synopsis Decoder a neat feature, where it actually `decodes' and prints on the screen the weather in plain language from a station sending AAXX or BBXX weather transmissions. By pressing "W" within the baudot module, you can view or save AAXX/BBXX reports from up to ten countries. These are saved on your hard drive in a .DBF data base format of 29 fields. I tried it on a fairly strong signal and the data still took a lot of hit's and was disrupted. But this would be a nice feature say in Europe were these stations are strong, or when the U.S. gets converted over to WMO format.

CONCLUSION

I think a person doing a review on the Hoka Code-3 Gold say in Europe, would be much more pleased with it due to the more constantly strong signals found there. It performs very well with a good strong signal. Overall, I'm not `displeased'; it's an amazing bit of work. I hope the next version has some small improvements. I had hoped there would be a bigger difference in the filtering over the Hoka Code-3. The lack of alternate alphabets for viewing, such as Cyrillic or Arabic, is regrettable but not insurmountable. Especially as a beginners unit, there is a lot to learn, and it's not something your going to pick-up in an hour (be aware). 'Gold' is classed by Hoka as an 'entry level' decoder and this is why it does not have a few features that it's 'Big Brother' has; namely alternate alphabets, cyrillic, etc. I think every decoder out there has good and bad points that one may nit at. This unit is aimed at the POCSAG and ACARS market. If you are a Code-3 (as in Gold's Big Brother) user, then you would notice several features that are not included in the 'Gold' unit with the more esoteric shortwave features included as an option. Even so, its basic package still includes more shortwave options than found on most other decoders of a similar price range with its base price of U.S.$425.00.

Gold has other strong points too, and remember this is the first version. With high baud rate signals it performs well. It's baud rates for most modes are flexible rather than having say ten preset `commonly found' baud rates. So that one may tune a 109.5 baud Sitor-B station if you should encounter one. Upgrades can be added simply and easily by computer disk or from BBS downloads. Also, as another big plus, it has great support. Hoka Electronics (UK), (100612.725@compuserve.com) and Computer Aided Technology, the North American distributor (scancat@scancat.com), both have good reputations for support. The Hoka (UK) dealer is Multicomm 2000, Radio House,

37 Cunnigham Way, St., Neots, Cambs., PE19 3NJ, UK. Telephone: 01480 406770. International +44 1480 406770. In North America it's: Computer Aided Technologies, P.O. Box 18292, Shreveport, LA 71138, USA (318)--687-4444, FAX (318)-686-0449. You can visit all the Hoka sites via the WUN web page at: http://www.leonardo.net/berri/wun

Again, thanks to Jim Springer at Computer Aided Technologies for the loan of the review unit. Besides the Hoka line, Jim is the developer of the ScanCat computer aided scanning software. His ScanCat Gold for Windows has just recently been released with good reviews.

NEW PRODUCT's

Klingenfuss Publications is shipping the new combined broadcast/utility 1997 Shortwace Frequency List, their 1997 Guide to Utility Radio Stations, and the new 1997 Super Frequency List on CD-ROM. We'll take a look at these next month, along with some other goodies perhaps. Take care and have an enjoyable Holiday Season....

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STATION/VERIF/CALL/FREQ/MODE/TYPE QSL/NO.DAYS/REMARKS/CONTRIBUTOR

MILITARY/COAST GUARD SHIPS

USS Albuquerque (SSN-706)/NALB	7535.0	USB	PFC	28	ds	LA class attack sub	(RB)
USS Arctic (AOE-8)/NCLS	7535.0	USB	PFC	25	ds	CS chgd from NDRO	(RB)
USCGC Point Estero/NZON	5320.0	USB	PFC	11	ds	full data w/TU ltr	(JDS)
USCGC Hornbeam	5320.0	USB	PFC	24	ds	full data w/seal	(JDS)

MARITIME/NAVAL/COAST GUARD STATIONS

USCG Group San Diego, CA/NOR	5696.0	USB	LTR	24	ds	part data w/info	(JDS)
Sydney C.G. NAVTEX/VCO	518.0	SIT	PFC	35	ds	foto, diary + pen	(KMH)
USCG Group Miami Beach, FL/NCF	2670.0	USB	LTR	9	ds	part data	(JDS)
USCG Group Portland, ME	4125.0	USB	LTR	13	ds	part data	(JDS)
Perth Radio, AUS/VIP	8502.0	CW	CRD	76	ds	part data,fup to CA	(JDS)
US Navy, Norfolk SESEF, VA	7535.0	USB	LTR	17	ds	part data	(JDS)

# # #

*** THE LITTLE BLACK BOOK ***

The following addresses correspond to some of the QSL's listed above:

Tom Davies of Grahamstown, South Africa and J.D. Stephens of Madison, AL contributed these addresses, as well as the verifying signatures to go with them:

Bureau of Meteorology
Northern Territory Regional Office
GPO Box 735 Darwin NT 0801
Australia

Norfolk SESEF
NAVUNSWARCEN OSO SESEF
Building 102, Fort Story
Virginia Beach, VA 23459-5089

As promised last month, here's the second half of the list of U.S. Naval Stations (NAS):

NAVAL AIR STATION
PO BOX 9001
KEY WEST FL 33040-9001

NAS KINGSVILLE
554 MCCAIN ST STE 310

KINGSVILLE TX 78363-5053

NAS LEMOORE
700 AVENGER AVE RM 224
LEMOORE CA 93246-5001

NAVAL AIR STATION
1155 ROSENBAUM AVE STE 13
MERIDIAN MS 39309-5003

NAVAL AIR STATION MIRAMAR
45249 MIRAMAR WAY
SAN DIEGO CA 92145-5005

NAVAL AIR STATION
9420 THIRD AVE
NORFOLK VA 23511-2197

NAS NORTH ISLAND
PO BOX 357033
SAN DIEGO CA 92135-7033

NAVAL AIR STATION OCEANA
VIRGINIA BEACH VA 23460-5120

NAVAL AIR STATION
PATUXENT RIVER MD 20670-5409

NAS PENSACOLA
190 RADFORD BLVD
PENSACOLA FL 32508-5217

U S NAVAL AIR STATION SIGONELLA DET
PACHINO TARGET RANGE
UNIT 50025
FPO AE 09627-2901

U S NAVAL AIR STATION
PSC 812 BOX 1000
FPO AE 09627-1000

NAVAL AIR STATION
1134 MAIN ST
SOUTH WEYMOUTH MA 02190-5000

NAVAL AIR STATION WHIDBEY ISLAND
1170 WEST LEXINGTON ST
OAK HARBOR WA 98278-5000

NAS WHITING FIELD
7550 USS ESSEX ST STE 200
MILTON FL 32570-6155

*** VERIFYING SIGNATURES ***

The following are verifying signatures (v/s) on QSL's received from individuals to whom reception reports sometimes can be specifically addressed:

Australian Bureau of Meteorology: J.A. Smith, Officer in Charge, Observations and Communications Section

USS Albuquerque: RMC(SS) R. Swfaringen

USS Arctic: RMC(SW) R. Skinner

USCG Group San Diego: G. L. Brunn - Telecommunications

Specialist First Class

USCG Group Miami Beach: Sandra A. Beisner - Chief Telecommunications Specialist

USCG Group Portland: C.F. Jenkins - Radioman 1st Class

USCGC Point Estero: TC2 Kevin H. Taylor

Norfolk SESEF: K.D. Burky - Acting Head, Shipboard Electronic System Evaluation Facility

# # #

THE GRAPEVINE: J.D. STEPHENS passed on the following information recently concerning his USCG Miami Beach QSL: "Received a QSL letter today from USCG Group Miami Beach, FL. In it, was an answer to an inquiry about COMMSTA Miami. Since there has been some discussion on this in WUN, I thought I'd pass along this excerpt from the letter I received from Chief Telecommunications Specialist Sandra A. Beisner: 'The Coast Guard station that was destroyed in Hurricane Andrew was Coast Guard Communications Station Miami and it was rebuilt, but the facilities located there are now operated remotely from Coast Guard CAMSLANT - Portsmouth, VA.'" ...On another matter, Stephens points out that the return address for his US Navy Norfolk SESEF QSL differs from previous addresses for same that he's seen... I'm going to do a little thinking out loud right here. I am wondering what other people's experience has been QSL'ing Canadian utilities. I have heard that CANFORCE are not terribly reliable when it comes to verifying on QSL requests, and my own experience so far bears that out.

# # #

/// Polish, Czech and Serbo-Croatian Cover Letters ///

This month again, we are featuring translations of standard form-letters for QSL'ing utility stations whose language may not be English. Thanks go out to Jean-Louis Querton and some of his associates at the European Broadcasting Union (EBU) who helped. Jean-Louis would like to point out, however, that some of the translations we are featuring, including the ones below, are transliterations -- differences in alphabet and accent style make them only approximate, but comprehensible to the receiver. If you're looking for an edge in getting a verification, these may be just the thing. 73s and Good QSL'ing!

--- Polish version ---

Szanowni Panstwo,

Jestem sluchaczem krotkich fal (SWL=Shortwave Listener) w _____ [your town] _____ [geographical coordinations] w _____ [your country]. Jako hobby, slucham fal HF. Mam rowniez licencje radio-amatora _____ [your call sign].

Dnia _____ [date] o godzinie _____ [time] GMT mialem przyjemnosc odebrac panska emisje _____ [identification of the transmitter] w czestotliwosci _____ [frequency] kHz i systemie _____ [mode].

Chcialbym panstwa poinformowac ze jakosc waszego sygnalu odebranego tutaj byla _____ [SINPO]. Wyposazenie odbiorcze sklada sie z odbiornika _____ [brand ans type], anteny ____ [antenna description, height, orentation,...].

Kolekcjonuje rowniez karty QSL stacji ktore odbieram. Bylbym zaszczycony mozliwoscia wlaczeia do mojej kolekcji karty Panskiej stacji.
Bylbym wdzieczny, gdyby Pantstwo mieli czas i mogli sprawdzic (QSL), czy ten odbior jest dobry.

W zalaczeniu wysylam karte (PFC=Prepared Form Card), zaadresowana i ze znaczkiem pocztowym, gotowa do wypelnienia. Z gory Panstwu dziekuje za czas

jaki mi Panstwo zechca poswiecic i prosze przyjac moje serdeczne pozdrowienia.

_____ [your signature]

---- Czech ----

Vazeny pane,

Jsem posluchacem vysilani na kratkych vlnach v _____ [your town] _____ [geographical coordination] _____ [your Country]. Jako hobby posloucham HF vlny. Jsem rovnez radioamater s licenci _____ [your call sign].

Dne _____ [date] v _____ [time] hod GMT jsem mel poteseni chytit vase vysilani na _____ [frequency] kHz v _____ [mode].

Sdeluji, ze kvalita prijmu vaseho signalu byla _____ [SINPO]. Prijimace zarizeni se sklada z prijimace _____ [brand and type] anteny _____ [antenna description, height, orientation].

Sbiram rovnez QSL karty stanic, ktere posloucham. Bylo by pro mne cti doplnir moji sbirku kartou vasi stanice byl bych Vam vdecny, budete li mit cas skontrolovat QSL, zda je tento prijem spravny.

Prikladam predtistenou ofrankovanou kartu (PFC= Prepared Form Card) k doplneni. Dekuji Vam pridem za cas, ktery mne venujete a zasilom Vam srdecny pozdrav.

_____ [your signature]

------ Serbo-Croatian ----

Dragi Gospodine,

Ja sam jedan od slusaca kraktovalnih emisija u _____ [your town] _____ [goegraphical coordinations] u _____ [your Country]. Moj hobi je slusati HF valove. Ja sam takoder registrirani radio-amater _____ [your call sign].

Dana _____ [date] u _____ [time] sati GMT, imao sam zadovoljstvo primiti vasu emisiju _____ [transmitter identification] na _____ [frequency] kHz u _____ [mode].

Javljam vam da je prijem vaseg signala ovdje ____ [SINPO]. Prijemni uredaji sastoje se od prijemnika _____ [band and type] i antene _____ [antenna description, height and orientation].

Ja takoder skupljam kartice QSL od stanica koje slusam. Biti cu pocascen ako cu moci dodati mojoj kolekciji jednu od vasih kartica. Zahvlajujem unaprijed ako cete smoci vremena prekontrolirati (QSL) da li je prijem korektan.

Prilazem jednu, pripremljenu (PFC=prepared Form Card) karticu kuju bih zamolio kompletirati, a koja je vec frankirana. Zahvaljujem unaprijed na vremenu koje mi posvecujete i srdacno vas pozdravljam.

_____ [your signature]

# # #

/// QSL 'Inserts' One of the Nicer Payoffs of the Hobby ///

Christmas comes but once a year. But if you play your cards right (QSL cards, that is), the mailman could be dropping all sorts of 'gifts' in your mailbox almost year-round.

One of the nicer aspects of QSL'ing is the 'souvenirs' that verifiers sometimes include along with your returned PFC or QSL card. These can range from photographs to pamphlets or decals and stickers. But there's really no

telling what some stations will sometimes include can be at the personal discretion of the individual fulfilling your QSL request.

"Over the years I have collected quite a batch of souvenir bits and pieces that accompanies QSL replies from ute stations," says veteran QSL collector Rick Albright of Merced, CA. "I began keeping SWL logs in 1955, when I was in high school (I got my amateur license - KN6TBX - the following year), but I didn't get serious about QSLing ute stations until the late 1980s, when frequency and address lists for this branch of SWLing became more readily available. All stations were monitored from California, and being an ex-USN sailor, maritime traffic was my main target. My ute QSL replies have included the following unexpected 'prizes':

- Decals and stickers from Britain's Royal Air Force, the Royal Australian Navy, Royal New Zealand Navy, U.S. Navy and USN MARS, Canadian Forces Maritime Command and several German shipping lines, including Senator Line and Jacob Line. The most impressive of the stickers is a foot-long bumper display with a profile view of the USS Hayler, DD-997, known as "The Blue Goose," but a close rival for No. 1 is a sticker showing a camera-wielding Kiwi bird in New Zealand naval attire.
- Full-color miniature cardboard heraldic devices for the following Royal Navy warships: HMS Bristol, Lancaster, Norfolk, Fearless, Brave and Hecate.
- A paper blue and gold "hat" from the Royal Navy's support unit, the Royal Fleet Auxiliary. It has a series of cuts in the center so that it can be pulled down over the head (one size fits all), leaving the wearer with an official-looking (if a paper hat can ever look official) crown-and-anchor-festooned visor gizmo. This is easily the oddest of my ute QSL souvenirs!
- A genuine Royal Navy radioman's cloth summer uniform sleeve badge, from HMS Hecate.
- A full-color wall poster showing all the heraldic badges of the Royal Navy's warships, and separate posters detailing the Royal Fleet Auxiliary Service.
- Black-and-white and color photos or poster views of various warships of Britain, Australia, New Zealand, Canada and the U.S. (including Coast Guard and Army). And a few photos from Royal Air Force and U.S. Navy aircraft. Also, many fact sheets and "welcome aboard" pamphlets from the same sources.
- A company logo T-shirt from the radio crew aboard the cruise ship Carla Costa.

Smaller SWL keepsakes:

- Keychain bottle opener, lapel pin and swizzle stick from Australia's East-West Airlines, keychain fob from the tanker Exxon Philadelphia, mapleleaf-and-anchor pin from Canada's navy, ship's logo lapel pin and ballpoint pen from HMNZS Waikato, "navy jack" lapel pin and Orient '92 cruise souvenir pin from Australia.
- Countless photos and Xeroxes of radio room equipment and manuals aboard German and other merchant ships. One German radio officer even sent a photocopy of the ship's radio license!
- An "enhanced" QSL. One (then) East German ship (Hettstedt/Y5OW) returned my Prepared Form QSL with the radio officer's artistic embellishments, including a beautiful freehand sketch of the vessel and color-pencil outlining of the printed elements on the card."

You'd be hard-pressed to find a QSL souvenir collection larger or more elaborate than Rick's. But no doubt there are other utes out there who've also accumulated their share of loot, and it'd be great to hear from them. So with that in mind we'll be continuing this subject next month. In the meantime, Happy Holidays, a Happy New Year to all and 73s!

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Thanks to this month's contributors:
(RB) Rick Baker, USA
(TD) Tom Davies, South Africa
(JDS) J.D. Stephens, USA
(KMH) K.M. Haywood, England

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UTILITY ROUND-UP

[editor: Ary Boender ary@bitbike.com 2:283/512.24]

Another year has gone by and when you look back, you will see all the good things that have happened, but I am sure that some of you also experienced sad events and I am afraid that 1997 will not be different in that way. I just hope that all of you -and your families- will have...

```
                 **  A MERRY XMAS & A HEALTHY AND PEACEFUL NEW YEAR
                **o*  Prettige Kerstdagen en een Gezond Nieuwjaar
               ******  Noel Bayraminizi ve Yeni Yilinizi kutlariz
              **o*****  Frohe Weihnachten und ein Glckliches Neujahr
             *****o****  Hyv„„ joulva ja onnellista uuttavuotta
            *+**********  Wesolych Swiat oraz Szczesliwego Nowego Roku
           *******o**o***  Kellemes Kar csonyi šnnepeket ,s Boldog –j,vet
          ****o***********  Boun Natale e Buon Anno
         *&*******o********  Sretan Bozic i Stretna Nova Godina
        *****o*********o****  God jul og godt nytt†r
       **********o****o******  Glaedelig jul og nyt†r
      *****o*********@********  Feliz natal um feliz ano novo
     ************##*******&****  Feliz Navidad y pr¢spero a¤o nuevo
    ***o****o****##*************  Vesel, V noce a st'astny Novy Rok
   *****o********##*********o****  Joyeux No‰l et Bonne Anne,
  o*********&****##******&*******o  God jul och gott nytt†r
                  ##
```

... Imagine, war breaks out and nobody shows up.....   73 -Ary-

Numbers and intelligence

o More traffic has been noted on ''channel marker freqs''
  I finally copied a short message on 'L' marker freq 3088 kHz. The 'L' changed to 'RLO' then into a few 5FG's, and back to 'L' again. All in the same strange sounding CW that is typical for 'L'. According to the Utility Guide, RLO is St.Petersburg, just like 'L'.
  ANEU copied traffic on 'D' marker freq 13322 kHz in both CW and USB, 'D' marker at h+30 and h+00, USB PP-traffic by female operator in Russian at 11:42 UTC. 'D' is supposed to be the navy in Odessa.

o North Korean spy Jong Su Il said during questioning, "The number of North Korean spies in the South is believed to reach almost several hundred considering call letters and the contents of instructions being sent out through shortwave radio every morning." <source: Kyodo>

o More numbers transmissions via Radio Pyongyang have been noted on 3250 and 4770 kHz during the last month.

o New Star Broadcasting Station.
  I found the following interesting report about this infamous numbers station in a DSWCI DX-Window bulletin.
  <author: Hans van den Boogert, Taipei, Taiwan hansfong@ms2.hinet.net>

  This is a report about the NEW STAR BROADCASTING STATION, or Xin Xing Guangbo diantai in Mandarin Chinese. I have observed this station on the following frequencies: 8300, 9725 and 11440 (must be 11430 -Ary-), where the latter two seem to be alternates both featuring the third program. Reception is clear and strong local daytime here in Taiwan (2300-1000 UTC), but hardly or not audible at night (1200-1600 UTC). I'm not a propagation expert, so maybe somebody else could give some educated guesses about a possible location.

  New Star seems to have different services, or programs. Each frequency identifies itself as "the third" or "the fourth" program ("di san tai" or "di si tai"). Content is different, but program format is the same. Broadcasts range from 5 to 40 minutes and I recorded a broadcast on 8300 kHz in October as typical case.

  In order to save my energy I hereby give a list of Chinese cardinal numbers. Ordinal numbers are formed by putting "di" in front of the cardinal number.

Chinese numbers from 1-10:

1 = yi	7 = qi
2 = er	8 = ba
3 = san	9 = jiu
4 = si	10 = shi
5 = wu	20 = er-shi
6 = liu	26 = er-shi-liu

Frequency: 8300 kHz. Date: October 1996. Time: 0600 UTC.

Transmission details:
* Transmissions usually start at the hour, e.g. 0400, 0500, 0600, with a traditional piece of Chinese music as interval signal, featuring a flute. Once you hear it you never forget it. Usually two women are featured: one for the general announcements, the other for the messages. They are both recorded and this clearly shows in the coded messages which suffer from lack of proper intonation. The outline of the transmissions is as follows:

Station ID + program ID. An example:
Zheli shi Xin Xing Guangbo diantai, di si tai (2x) [Here is New Star Broadcasting Station, the fourth program]

* Call for particular units (danwei) that cables (dianbao) are coming. These stations have 4 or 5 letter call-signs. Also indicated is the month and number (...yue, ...th report) of the cables and how many cable characters (dianwen) it consists off. An example:
.....you 5-3-2-5-3 danwei [.....for unit 5-3-2-5-3], shi yue fen di yi hao dianbao [October 1st cable], yi fen dian bao dianwen 53 zi [one cable, 53 characters]. You 4-4-7-1 danwei [for unit 4-4-7-1], shi yue fen di si hao [October 4th cable], yi fen dianbao dianwen 61 zi [one cable, 61 characters]. 5-3-2-5-3 danwei 4-4-7-1 danwei zhuyi chaoshou [Unit 5-3-2-5-3, unit 4-4-7-1, stand by for reception].

* This announcement is repeated a couple of times, with the interval music in between. Then actual code transmissions begin, preceded by this announcement:
Zheli shi Xin Xing Guangbo diantai, di si tai. [Here is New Star Broadcasting Station, the fourth program] Xianzai women.... [Now we....] kaishi..... [begin...] baogao gei nin [with the reporting for you]. Qing nin zhuyi, zhunbei chaoshou. [Please stand by for reception]

* Then the actual reading of numbers starts in this format, each number repeated twice. If the cable is finished this is also announced: 9093 9033 8799 8799 9989 9989 1956 1956 4244 4244 3904 3904 9939 9939 8988 8988. yishang shi gei 4-4-7-1 [The preceding was intended for unit 4-4-7-1], shi yue fen di si hao [October 4th cable], yi fen dianbao dianwen 61 zi [one cable, 61 characters]. xianzai yijing bowen wan le [now finished with broadcasting the cable].

* Finally the whole broadcast is ended with the following words: yishang tejie heyue .....bosong wanbi. xiexie nin de shouting. zhu nin jiankang kuai le. zaihui. [The preceding special programme.....now finished transmission. Thank you for listening. We with you health and happiness. Goodbye.]

Comments from the reporter:
First a diclaimer: my Chinese is not perfect and Xin Xing's audio is not that great, so I might have made minor mistakes in translation, or in copying content (90% is correct though). Even my girlfriend had trouble understanding the Chinese and she is a native speaker, so there you go! (Please send her a nice e-mail at hansfong@ms2.hinet.net and maybe she will let me play with my radio more often then, hi!).

I don't want to give too many comments on this station. It seems a spy station, packaged very nicely, but from where and for whom is everybody's guess. The Mandarin used sounds like mainland Chinese Mandarin, but it could as well be from Taiwan. The signal and audio quality also point to

mainland China, but then again, at night this station is not audible in over here and so it points to Taiwan again.

Maybe it's not a spy station at all. I remember some years back there was a German number station, also sounding very nice and everybody thought it came from East Germany. Turned out to come from West Germany and relaying results of horse racing (this was before the computer networking craze and turned out to be cheaper and faster than other means of distribution).

Anyway, good luck with hunting this station down. If you hear any other frequencies, please let me know. Good DX.

Police on HF, pt.3

US Customs Service / Drug Enforcement Administration

o The DEA Mission Statement as found on the home page of the Dept of Justice. The freqs were retrieved from WUN loggings and Monitoring Times.

* The mission of the Drug Enforcement Administration is to enforce the controlled substances laws and regulations of the United States and to bring to the criminal and civil justice system of the United States or any other competent jurisdiction, those organizations, and principal members of organizations, involved in the growing, manufacture, or distribution of controlled substances appearing in or destined for illicit traffic in the United States; and to recommend and support nonenforcement programs aimed at reducing the availability of illicit controlled substances on the domestic and international markets. In carrying out its mission, DEA is the lead agency responsible for the development of overall Federal drug enforcement strategy, programs, planning, and evaluation. DEA's primary responsibilities include:
* Investigation and preparation for prosecution of major violators of controlled substances laws operating at interstate and international levels;
* Management of a national drug intelligence system in cooperation with Federal, state, local, and foreign officials to collect, analyze, and disseminate strategic and operational drug intelligence information;
* Seizure and forfeiture of assets derived from, traceable to, or intended to be used for illicit drug trafficking;
* Enforcement of the provisions of the Controlled Substances Act as they pertain to the manufacture, distribution, and dispensing of legally produced controlled substances;
* Coordination and cooperation with Federal, state and local law enforcement officials on mutual drug enforcement efforts and enhancement of such efforts through exploitation of potential interstate and international investigations beyond local or limited Federal jurisdictions and resources;
* Coordination and cooperation with other Federal, state, and local agencies, and with foreign governments, in programs designed to reduce the availability of illicit abuse-type drugs on the United States market through nonenforcement methods such as crop eradication, crop substitution, and training of foreign officials;
* Responsibility, under the policy guidance of the Secretary of State and U.S. Ambassadors, for all programs associated with drug law enforcement counterparts in foreign countries; and
* Liaison with the United Nations, Interpol, and other organizations on matters relating to international drug control programs.

Frequencies. Both Customs and DEA are using HF radio for their comms. They share freqs with the FAA and USAF. During the past year traffic has been copied on the following freqs:

Customs Over-the-horizon Enforcement Network (COTHEN). These freqs are being shared with the USAF and ALE (automatic link establishment) is being used: 5732, 7527, 8912, 10242, 11494, 13907, 15867, 18594, 20890, 23214, 25350 kHz (8912 kHz is shared with FAA). All comms are

in USB and secure voice, with some 'in the clear' transmissions at times.

Shared with FAA (not in ALE network) 3428, 5571, 11288, 13312, 17952 kHz

U.S. Customs Over-the-horizon Enforcement Net (COTHEN)

Alpha	5277	Hotel	18666
Bravo	5841	India	23675
Charlie	7300	Lima	14350
Delta	9497	Papa	14686
Echo	11076	Romeo	23402.5
Foxtrot	7675	Sierra India	18171
Golf	14690	Sierra Juliet	19131

DEA stations (aircraft) have also been heard on 5696, 6739, 8971 and 11175 kHz and COTHEN freqs.

A couple of related callsigns:
Panther = HQ Bahamas
Atlas = COTHEN, Rockwell-Collins, Cedar Rapids, Iowa
Flint.. = DEA aircraft
Stingray.. = US Customs aircraft
Omaha.. = DEA aircraft

o Australia continued: NSW and NT. WA and Quensland next month. I am still looking for ACT, Victoria and Tasmania freqs. Anyone?

New South Wales Police (VKG)

Balranald	3253.5	4561.5	7661.5			
Bankstown Airport	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2183.4	2437.4	2525.4	3253.5	3437.4	4126.4
	4536.4	4561.5	4621.4	6216.4	7661.5	10506.5
	27680.0	27720.0	27820.0	27860.0	27880.0	27900.0
	27910.0	27940.0	27980.0			
Bourke	3252.0	4560.0	6905.0	7660.0	10505.0	
Bourke North	3253.5	4561.5	6906.5	7661.5		
Brewarrina North	3253.5	4561.5	7661.5			
Broken Hill North	3253.5	4561.5	7661.5			
Brooklyn	27680.0	27720.0	27820.0	27860.0	27880.0	27900.0
	27910.0	27940.0	27980.0			
Church Point	2183.4	2202.4	3253.4	5681.4	7661.4	27880.0
	27900.0	27910.0	27960.0	27980.0		
Cobar North	3253.5	4561.5	7661.5			
Coffs Harbour	2033.4	2113.4	2183.4	2525.4	2677.4	3253.5
	4126.4	4376.4	4621.4	6216.4	7661.5	27530.0
	27860.0	27880.0	27900.0	27910.0	27940.0	
Collarenebri	3253.5	4561.5	7661.5			
Cronulla	27680.0	27720.0	27860.0	27880.0	27900.0	27910.0
	27940.0	27980.0				
Dubboquin North	7661.5					
Deniliquin North	3253.5	4551.5				
Dubbo	4561.5	4781.5	5681.5	7661.5		
Dubbo North	3253.5	6906.5				
Dudley	2183.4	2525.4				
Engonnia North	3253.5	4561.5	6906.5	7661.5		
Forest Hill	3253.5	3733.5	4561.5	5681.5	6906.5	7661.5
Goodooga	3253.5	4561.5	6906.5	7661.5		
Goulburn	3253.5	6906.5				
Hay	3253.5	4561.5	7661.5			
Ivanhoe North	3253.5	4561.5	7661.5			
Lightning Ridge	3253.5	4561.5	6906.5	7661.5		
Lord Howe Island	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2183.4	2437.4	2525.4	4126.4	4536.4	4621.4
	6216.4	27680.0	27720.0	27820.0	27860.0	27880.0
	27900.0	27910.0	27940.0	27980.0		
Menai	3252.0	4560.0	6905.0	7660.0	10505.0	14572.0
Menindee	3253.5	4561.5	7661.5			
Middle Head	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4

	2182.0	2202.4	2285.4	2437.4	2525.4	2677.4
	3253.5	4135.4	4376.4	4427.4	4536.4	4621.4
	6207.4	6216.4	6508.4	7661.4		
Moree North	3253.5	4561.5	6906.5	7661.5		
Mungindi	3253.5	4561.5	6906.5	7661.5		
Nelson Bay	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2183.4	2437.4	2525.4	4126.4	4536.4	4621.4
	6216.4	27680.0	27720.0	27820.0	27860.0	27900.0
	27910.0	27940.0	27980.0			
Newcastle	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2183.4	2437.4	2525.4	2525.4	3253.5	4056.5
	4126.4	4536.4	4561.5	4621.4	6126.4	6906.5
	7661.5	10506.5	27680.0	27680.0	27720.0	27820.0
	27900.0	27910.0	27940.0	27980.0		
Nyngan	3253.5	4561.5	7661.5			
Parkes North	3253.5	6906.5				
Port Kembla	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2525.4	4126.4	4536.4	4621.4	6216.4	27680.0
	27860.0	27880.0	27900.0	27940.0	27980.0	
Pyrmont	2033.4	2113.4	2183.4	2525.4	4126.4	4621.4
	6216.4	27860.0	27880.0	27900.0	27910.0	
Redfern	2285.4	2525.4	3252.0	4560.0	6905.0	7660.0
	10505.0	14572.0	18542.0			
Sans Souci	2183.4	2525.4				
Sydney	3753.5	4558.5	7658.5	10506.5	14573.5	18543.5
Tibooburra North	3253.5	4561.5	5181.5	6906.5	7661.5	
Wagga Wagga North	6906.5					
Walgett	3252.0	3253.5	4560.0	4561.5	6905.0	7660.0
	7661.5	10505.0				
Wanaaring	3253.5	4561.5	7661.5			
Wangi Wangi	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2183.4	2437.4	2525.4	4126.4	4536.4	4621.4
	6216.4	27680.0	27720.0	27820.0	27860.0	27880.0
	27900.0	27940.0				
Wentworth North	3253.5	4561.5	7661.5			
Western NSW	4561.5	7661.5				
Wilcannia North	3253.5	4561.5	7661.5			
Woy Woy	1716.4	1726.4	1776.4	2009.4	2033.4	2113.4
	2183.4	2437.4	2525.4	4126.4	4536.4	4621.4
	6216.4	27680.0	27720.0	27820.0	27860.0	27880.0
	27900.0	27910.0	27940.0	27980.0		

Northern Territory Police (VKM)

Adelaide River	2633.5	5916.5	6985.0	10503.5		
Ali Curung	2633.5	5916.5	6985.0	10503.5		
Alice Springs	2633.5	4561.5	5916.5	6985.0	10503.5	14573.5
Alyangula	2633.5	5916.5	6985.0	10503.5		
Avon Downs	2633.5	4561.5	5916.5	6985.0	10503.5	
Batchelor	2633.5	5916.5	6985.0	10503.5		
Berrimah	2633.5	4561.5	5916.5	6985.0	7658.5	10503.5
	10506.5	14573.5	18543.5			
Borroloola	2633.5	4561.5	5916.5	6985.0	10503.5	
Daly River	2633.5	5916.5	6985.0	10503.5		
Elliott	2633.5	5916.5	6985.0	10503.5		
Gunbalanya	2633.5	5916.5	6985.0	10503.5		
Gunn Point	2633.5	4561.5	5916.5	6985.0	7658.5	10503.5
	10506.5	14573.5	18543.5			
Harts Range	2366.5	5916.5	6985.0	10503.5		
Hermannsburg	2366.5	5916.5	6985.0	10503.5		
Jabiru	2366.5	5916.5	6985.0	10503.5		
Kalkaringi	2366.5	4561.5	5916.5	6985.0	10503.5	
Katherine	2366.5	5128.5	5916.5	6985.0	10503.5	
Kulgera	2366.5	5916.5	6985.0	10503.5		
Lajamanu	2366.5	4561.5	5916.5	6985.0	10503.5	
Maningrida	2366.5	5916.5	6985.0	10503.5		
Maranboy	2366.5	5916.5	6985.0	10503.5		
Mataranka	2366.5	5916.5	6985.0	10503.5		

Ngukurr	2366.5	5916.5	6985.0	10503.5	
Nhulunbuy	2366.5	5916.5	6985.0	10503.5	
Papunya	2366.5	5916.5	6985.0	10503.5	
Pine Creek	2366.5	5916.5	6985.0	10503.5	
Pularumpi	2366.5	5916.5	6985.0	10503.5	
Tennat Creek	2366.5	5128.5	5916.5	6985.0	10503.5
Ti Tree	2366.5	5916.5	6985.0	10503.5	
Timber Creek	2366.5	4561.5	5916.5	6985.0	10503.5
Wadeye	2366.5	5916.5	6985.0	10503.5	
Yuendumu	2366.5	5916.5	6985.0	10503.5	
Yulara	2366.5	5916.5	6985.0	10503.5	

Utility Round-up
---

o Station RJE73 was heard on 12 1447Z Nov 1996 on 5739 sending CQ/QTC marker followed by traffic in cyrillic alphabet and numbers. Very good in Athens, Greece. <Costas Krallis>

o On 13 0549Z Nov 1996, YRA (Bucharest Air) appeared on 5638 with long "VVV TEST DE YRA K" style messages. Immediately after, the operator at SWA (Athens Air) replied in fast CW "YRA DE SWA QSA 5 73" and the quick exchange ended with key double clicks. <Costas Krallis>

o NOZEMA's Xmas tree. This Christmas Nozema's antenna in IJsselstein (the Netherlands) will be the largest Xmas tree in the world. (Fyi, Nozema -the Dutch Broadcasting Transmitter Company- owns the Dutch public broadcasting antennas). Special synthetic guy-wires with lightweight aerodynamic lamp holders will be stretched in parallel with the normal guy-wires. Thanks to the powerful light bulbs, the Xmas tree will be visible in a range of 30 km. The idea for this construction came from the students of the West Brabant College.

o Sweeper freqs. In addition to the sweeper frequencies that I mentioned two months ago, Mike Chace reports another 4 freqs: 15892, 18553, 18681, 20570 kHz.

o ...and finally...

== DXers' IQ QUIZ ==

[freely adapted from the original quiz by Bill Dernoff]

Test your DX Quotient! How much do you REALLY know about our hobby and your club? Neatness and flattery count, so do you best. Here we go:

1. What's the best way to QSL Timbuku?
   a. Send a report every six weeks until they answer.
   b. Send a report with $5 every six weeks until they answer.
   c. Threaten to stop sending reports unless they answer.
   d. Rob the QSL collection of someone else who has already verified them.
   e. Adopt Ross Perot as your uncle and have him buy the station for you.

2. For what reason did most WUN members subscribe?
   a. Information content
   b. Great editors
   c. The letter Joel Bedard sent threatening to tear down their antenna if they didn't subscribe
   d. ''I thought I had to do this to QSL Timbuku Radio''
   e. ''They won't let me in any other DX club''

3. What 11-year cycle has the most effect on DXers?
   a. Sunspots
   b. Elections in Indonesia
   c. Botswana's QSL policy
   d. The time from first announcement to shipment of new receivers.
   e. The publication cycle of WUN's Special Topics Report, the

informative but unpredictable series of 'special topics' newsletters.

4. Which special DX accessory was voted "most bought and least used" by WUN members?
   a. The quartz clock with the 36-hour dial.
   b. The combination football helmet and fixed-frequency Radio Pyongyang receiver.
   c. The "DXers' Coffee Cup" with intravenous hose and coronary alert signal if your pulse passes 200 or audio is detected from Azad Kashmir.
   d. The detailed DXers map of Tristan da Cunha
   e. The QSL album that looks like a coloring book and is too big to fit on anything but the bottom shelf of your bookcase.

5. Which special DX accessory was voted "most bought and most used" by WUN members?
   a. The DXers' Headphones with helium-filled ear-cushions that keep your head off the desk at 4 a.m. local time.
   b. The 365-day, 24-hour tape collection of Rick Baker's best DX loggings designed to replace boring hours of listening to static while straining for IDs. Rick himself provides the IDs of the stations you really want to hear, and much better music than all those flutes and drums and whining natives undergoing surgery without anaesthesia.
   c. The DXers' 'Stay Awake' Companion, an inflatable cushion that plugs into your DXMate-10 receiver and vibrates your, er, seat in inverse proportion to the speed with which you twist the dial.
   d. The Guide to What You're Hearing computer program. Taps into your DXMate-10 and positively IDs the station you're listening to based on frequency, fading, and program content. Prints QSLs too, using verie signer data from Martin Barry's extensive collection.

6. Who was voted WUN DXer of the year in 1996 and why?
   a. Jeff Haverlah, for being the Skyking and an EAM (Extremely Active Monitor)
   b. Day Watson, for QSLing all maritime transmitter sites that broadcast in both Chinese and Malaysian on even-numbered Saturdays.
   c. Martin Barry, for photocopying every QSL ever sent to him for his QSL column and donating "his collection" to the Committee to Prevent Radio Falsifications and declaring a $200,000 tax write-off.
   d. Mr or Mrs Anonymous, for inventing the combination shortwave receiver/microwave oven and frying 27 headphones in the process.
   e. Team Logs, for editing and retyping a million and a half logs from 1100 crazed WUNnies.

7. Why did Tim 'Bandscan' Braun cross the road?
   a. To unwind his hose reel Beverage antenna.
   b. To run away from the police, chasing him after he unwound 2 miles of wire across a major interstate highway.
   c. To blast a hole in his neighbor's personal computer that was converting 90 meters into a chorus of chainsaws.
   d. To open the mailbox and find the latest WUN Newsletter, four copies of the Digital FAQ's current edition, six copies of Marius Rensen's HF FAX frequency guide for the last six months, and no Timbuku Radio QSLs.
   e. To get to the other sideband.

The answers will be broadcasted simultaneously by Mossad and CIA numbers stations, so look out for those transmissions on new year's day. Have fun; see ya next year! -Ary-

==========The WUN Logs Column==========
|||||||||||||||||||||||| David C. Wright, Editor
||||||||||||||||||||||||||
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===

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Hello, and welcome to another WUN Logs Column. I would like to start out by thanking everyone for the great turnout this month. We have 107 contributors, representing a minimum of 15 countries. This month we have over 360kb of logs, including 135kb of Digital Logs, 119kb of Military Logs, 69kb of Civil Aero Logs, 33kb of Maritime Logs, and 11kb of Misc Logs. This equals over 5400 lines of up-to-date intercepts, making it the most timely and wide-ranging source of information available to the utility monitor. This is YOUR column, and thanks all for your input.

For the last couple of months we have been mentioning the upcoming second anniversary newsletter. I encourage all 1000+ members to send in some logs for this column. Let's make the January issue the biggest and best ever! We are looking for a good cross-section of what can be heard around the world. So, let's get those logs in today. Keep in mind that the deadline for submitting logs is the 10th of the month, so don't delay.

Now for some updates and corrections to previous WUN Logs Columns.

Ref. WUN 10/96, DIGITAL-LOGs, Freq.: 2514.8 unid TURNy:
Station is identified as TBA - TURNy Ankara - with Broadcast T12A!

Ref. WUN 10/96, DIGITAL-LOGs, Freq.: 7946.5 unid Meteo:
Station listed is Meteo Grengel (MilMet), D, c/s DHJ51

Ref. WUN 10/96, MILITARY-LOGs, Freq.: 5715, DHJ78:
Callsign belongs to German Navy Airbase Nordholz, near Cuxhaven. Nordholz is homebase of GNy Breguet Altlantic sub-hunting aircraft. Commando: 3 (GE) NavAir Wing Nordholz!

Ref. WUN 10/96, MILITARY-LOGs, Freq.: 6779, DRHB:
This callsign is not reported anymore. It is out of use since Spring 1995. If there is a new vessel with this callsign is still unknown

Ref. WUN 10/96, MISC-LOGs, Freq: 115, Loran
Not Loran but Decca stations around this freq. The CW pulses represent not letters or figures

Ref. WUN 10/96, MISC-LOGs, a variety of unid NDB's,
PEO: Stockholm, S; AV: Goteborg, S; BG: Berga, S; SG: Statenas, S; SLB: Oslo, NOR; POZ: Poznan, POL; GRE: Grebbestad, S; ERT: Erfurt, D; SK: Leipzig, D; OKX: Frydlant, CZE; CN: Piestany, SVK; RZE: Rzeszow, POL.

Ref. WUN 11/96, DIGITAL-LOGs, Freq: 2147, DoSC Moskva
Frequency should read 12147

Ref. WUN 11/96, DIGITAL-LOGs, Freq: 2892.3, MGJ: UK
MGJ: Royal Navy Faslane

Ref. WUN 11/96, DIGITAL-LOGs, Freq: 5287 Unid
Guardia Civil is on this freq

I would like to thank TEAM LOGS once again for their outstanding support and effort. Without them, this column would be impossible to do. In addition, I want to thank all of the other column editors and other individuals who help by checking my work and helping track down information. One last reminder. On behalf of TEAM LOGS I again ask that those who post or e-mail their logs try and get them as close as possible to our format. All of the editors volunteer their time to do this for the group. Let's make it as easy as possible on them. Thanks!

NOW, WITH ALL OF MY BEST WISHES TO YOU, AND YOU FAMILIES, DURING THE HOLIDAY SEASON, it is on to the logs....

=CIVIL AERO=

2872 XASIM 0637 USB Shanw'k/ARP 56N20W 0635 F370 56N10W 0714 MAC. RJA262 UTC? USB Shanw'k/Req. to deviate 30nm to the right & descend to F280.Also req. to land at nearest suitable airport, some sort of engine problem, 162 SOB. (AW2)

2899 N128TS 0307 USB Shanw'k/ARP 52N30W 0304 F410 50N20W 0350 49N15W. N399CC 0309 USB Shanw'k/request selcal ck/KR-DM (G4). (AW2)

2971 N500E 0302 USB Shanw'k/ARP 52N20W 0300 F430 52N15W 0322 GIPER. N487QS 0303 USB Shanw'k/ARP 53N20W 0301 F410 cl.450 53N15W 0323 -BURAK next. (AW2)

3016 IFZ01 0700 USB Shanw'k/ARP 53N20W 0658 F250 52N15W 0725 DOLIP. (AW2) Air Force 2 0711 S.Maria/ARP ARMED 0710 F330 40N10W 0742 LISBON. (RD3)

3413 Shannon volmet 2238 USB wx/reports european inter'l airports.(DB3)

3455 NY Radio: 0050 USB clg Speedbird 292 --- no joy called at least 6 times in short period via voice/SELCAL (KW2). USA2295 0022 USB NY/ARP ODEAL 0018 F370 FLORI 0037 RIGNY sel/BR-MS (Any ideas for the selcal? B757). (RD3)

3470 Malaysia 4150: 1840 USB clg Indonesia 892 no joy.(RO)

3476 F-GLGY 0532 USB Shanw'k/ARP 51N30W 0531 F390 52N20W 0613 52N15W sel/ AC-JK (type?). (AW2) Gander Radio: NF, CAN (NAT-F MWARA) 0316 USB wkg N777UE w/selcal ck, LR-FP, req FL 430 from 410. (RB)

4666 Tokyo 0800 USB wkg several a/c, very busy. (AW)

4675 N2WL 1554 USB Shanw'k/ARP 60N10W 1550 F410 61N20W 1633 60N30W M.80 sel/BF-CE.(G.4) AJM002 1555 USB Shanw'k/selcal chk/KS-DP (N837AB A.310). AAR5828 1513 USB Bodo/ARP SECON 1510 F330 7454N10W 1605 QUASI 1652 LT. NWA45 UTC? USB Iceland/Rx.Ocn.clr-to KMSP via MATIK 63N10W sel/DM-KL (N230NW DC-10). NRN342 1633 USB Iceland/ARP 61N10W 1634 F280 req.Ocn. clr to KEF. AFR6720 1715 USB Iceland/ARP GOMET ? 1714 F310 Polar2/66N 1753 -Polar2/20W next. (RD3)

5493 SJM 6212 0609 USB Wkg Brazzaville dep JNB 0238 ETA Lagos 0751 passed ARAKI 0557 est STM 0647 F350 747F N741SJ. (TO)

5505 Shannon volmet 2240 USB wx/reports european inter'l airports.(DB3)

5517 KLM 568 0043 USB wkg Tripoli - was told to contact Benghazi Control on 126.5 - then Tripoli clg Cairo w/no reply. TRIPOLI ATC 2345 USB wkg several a/c here. Also, Tripoli clg Nairobi and Addis Ababa w/no reply. Hrd this freq several weeks ago also. Anyone know who/what this is? Not listed in any of the normal sources 5517 (TB) HLA 603 0613 USB Clg Tripoli here no joy. Thanks to Tim Braun for the tip on this frequency!! (TO)

5526 Cubana 451 0535 USB Wkg Manaus w/ARP o/h Boa vista 0459!! F310. (TO)

5529 ICE615 1730 USB Iceland/req. private p/p (in Icelandic !!) (RD3)

5532 OK-WAA 2116 USB CSA Prague/Called by Ops. (AW2) OK-WAB 1353 USB CSA Prague/req. wx.for Santa Maria (A310 CSA). (RD3)

5535 GHA710 0306 USB BA London/posn MNA 0305 F330 eta LHR 0600.(AW2) CDN100 0748 USB Lima/pos/report req.Sao Paulo & Rio wx. sel/DQ-CP (CFTCA B767). SVA031 0544 USB BA Lon/ARP RIVAK 0542 F350 req.JFK/YQX wx. (RD3)

5541 Reach 3033 0550 USB Stockh'm/dep.FRF 0525/40 eta TZL(Tuzla) 0710 31SOB dep.fuel 45.0 sel/EH-DF (BSK B727-reg ???). (AW2) SWR175 0615 USB Stockh'm/p/p to GTI ops-both radar sets u/s asked ops to ck wx. reports for thunderstorm activity.fl/t en route BSL. N603GC 0903 USB Stockh'm/ARP 52N20W 0856 eta KBGR 1310 sel/CG-EM -To relay to Gemini Cargo Ops (DC10 Gemini/SCX). N916SJ 1412 USB Stockh'm/On ground EGUN-fl/t slightly off freq so no reply.(L.100). D-AMUZ 1717 USB Stockh'm/ pp to LTU Technik,Munich. VRG'VPK'0405 USB Varig Ops/Gave posn report F350 in SS!! LDA6273 0726 USB Stockh'm/pp Lauda ops, Vienna sel/HL-DS (OE-LRF) GTI136 0730 USB Stockh'm/dep.TURIN 0657/0705 eta SNN 0940 payload 81173 sel/AD-FM (N3203Y B747). FDX9641 1956 USB Stockh'm pp to Ops -posn BURNO 1955 F315 fuel -219.0 sel/CM-DL (N312FE DC10) CLI075 1957 USB Stockh'm/posn BBM 1950 F280 fuel 104.1 sel GL-HK, CGCIL A310. SJM6212 2000 USB Stockh'm/arr.LAGOS 1607/1700 dep. 1825/46 eta VIT 2344 payload 211906 lbs uplift 25931 USgals. AMTRAN 4843: 0055 USB wkg Stockholm Radio. pp flight control. a/c must stay on gnd due to weapons on board. Were here (?) a day ago and 1 person stayed on board a/c. 1 guy from militay and 1 mechanic. eta 34 minutes. Passengers will be allowed to leave. Will leave HF

tranmitter active while on gnd. Dep msg through Stockholm. (CH) LE-581: Air Toulouse 2243 USB wkg Stockholm R. (IB) ?117: 0055 USB wkg Stockholm Radio re posn rpt 50N 40W qsy to 8930 (KW2). PAC857 1801 USB Stockh'm/p/p to Longbeach Ops-Flt to continue as planned !!. AFR490 1906 USB Stockh'm/Radio & selcal chk/BF-GK (F-GCBI B747) a/c told off for interrupting previous call! TSO9070 1632 USB Stockh'm/Req.private call-To call 6826. SJM6202 1600 USB Stockh'm, arr LEVT 1517/28 dep.1710/19 ETA ELLX 1849 Fuel 100.8 Cargo nil sel/DL-FG N741SJ B747. CTM1185 2150 USB Stockh'm/Called also using c/s EVA678 to no avail (Leased MD11 opr. on behalf of Fr.AF). (RD3) TF-ABS 0600 USB Stockh'm/dep.ELLX 0507/52 eta KBGR 1241 sel/BMFJ Air Atlanta B747. BAW3571 0650 USB Stockh'm/dep.LGW 0615/39 eta DXB 1321 fuel 102.0 payload 103587lbs sel/CKGL (N516MC GTI B747). AFR3270 1322 USB Stockh'm/Req. p/p to Ops,Paris. COA18 1841 USB Stockh'm, req selcal chk/DL-JM (N12061 DC-10). ANA206 2239 USB Stockh'm/pos'n UHT 2237 ETA NARITA 0600 Fuel 218.5 to relay to Company. BAW3572 2038 USB Stockh'm/ARP LINSO 2030 F330 fuel 33.3 ETA HONG KONG 2230 copy to Atlas Air NYC. (RD3)

5548 Eva Air 678 0041 USB wkg Stockholm Radio -- posn rpt N26, W50 at 0004, ETA TFFR 0212Z for relay to company; had very difficult time communicating w/ one another & the same info was passed about 5 times. (KW2)

5550 New York Radio LDOC 0415 USB two SS speaking stations completely blocking ldoc ops.(AM3) AEA148 0015 USB NY/ARP 30N60W 0011 F330R350 35N50W 0123 36N40W. IBE6620 0016 USB NY/ARP RIGNY 0014 F290 DEENO 0037 33N60W To call Bermuda 128.5 then HF 6628/2962. AVA010 0018 USB NY/ARP 20N60W 0226 M.80 sel/GL-EJ (N985AN B767) ETA MADRID 0900. (RD3)

5565 MAS20 0303 USB Jo'burg/Talking about flight level change. CLX760 0439 USB Recife/ARP RAKUD 0439 F310 POLDA 0507 NOR sel/CJ-LM (LX-ECV B747F) IBE6841 0402 USB Recife/ARP NANIK 0359 F350 ESPOT 0441 sel/EK-CJ (EC-DIB B747). (AW2)

5574 Corsair 940 0605 USB Wkg SFO (GM-DJ) ARP F370. (TO)

5589 unid aero stn 2124 USB passing WX for BRU and CGN to an a/c. Both speaking Hebrew. (Could this be a new ElAl frequency?) (MB3)

5598 Reach 2677 1951 USB S.Maria/ARP FLO 1950 GRA 2020 LAJES. Reach JHX6 2120 USB New York/req selcal ck GK-FH (N119AA HAL DC10).(AW2) AJM002 1950 USB S.Maria/ARP 41N30W 1948 F330 38N40W 2054 34N50W. N910JW 1834 USB Shanwick (Da.900) 46n 20w 1832 fl370, hydra ....,Santiago ->135.7 (Madrid). (BH) Navy "lima victor 129" 2246 USB w/posrep to Santa Maria. (DB3) WAKE 76: 1215 USB a C-130 heading to Lajes wanting Oceanic clearance from Shanwick. (PR) New York 2243 USB flight info & selcal cks. DHL012 1915 USB Shanw'k/ARP 52N30W 1907 F330 52N20W 1947 52N15W ETA Brussels 2145 sel/FGAC (N803DH DC-8). CUB471 2149 USB S.Maria/Comos? 2148 F310 38N20W 2215 36N30W. CTM1185 2150 USB S.Maria/Selcalled & told to call 5541/3494. (RD3) Speedbird 1252 0516 USB Wkg Santa Maria for selcal (BD-FL). N768J 0516 USB Wkg NY w/ARP 43N40W F410. Speedbird 94 0527 USB Wkg Gander for selcal (BD-AE). USAir 12 0528 USB (BF-AP) Wkg Santa Maria for ARP 44N30W F390. CN-AOK 0558 USB Wkg NY req. F230 clred at 0601. Viasa 3732 0619 USB Wkg Shanwick w/ARP 51N30W F330 (CK-AD). Martinair 627 0532 USB Wkg Santa Maria (BQ-EG) w/ARP 44N40W F350. Air Portugal 9961 0525 USB Wkg Santa Maria (GM-CH) ARP 44N40W F350. Tampa 62 0538 USB Wkg Santa Maria w/ amended level clearance: after 43N climb to & maintain F310 to cross 44N level. Air Afrique 510 0613 USB Wkg New York (AE-FS) ARP 38N60W F310 .80. (TO)

5610 Portishead rdo 1126 USB wkg unid a/c "NG" w/selcall chk (MB3) Unk: 1425 USB wkg Portishead w/ a PP to ops. Right hand generator had failed adv Portishead that he'd stay on 5's until Cyprus then would be on 15964. Cooper (??) 901 1022 USB wkg PORTISHEAD w/ a grd radio ck. YA: 1155 USB wkng Portishead w/ wx for Porta Planta (???) Selcal of JR-AC. WATCHDOG94: 1156 USB wkng Portishead ops noramal posn 48W 830W heading west. will call in an hour WATCHDOG 93: 0911 USB wkg Portishead. Ops Normal off coast,Middlesborough. Selcal LM-GJ. WATCHDOG94 1030 USB wkg PORTISHEAD w/ops normal at posn 5030N 00650W & we are west-bound.WATCHDOG94 1123 USB wkg ARCHITECT. Dep Stmawgan 3 pob, selcal CL-GH posn 0930N0540W. WATCHDOG94: 1050 USB wkng Portishead w/ ops normal "Departed St Mawgan & we are currently

20 miles SW of Lands End. We'll be going low-level in 60 miles." will call in an hour. WATCHDOG 93: 1010 USB wkg Portishead w/ops normal posn 37N 5420E. will call again in 1 hr.(SM)
5616 N722HP 2041 USB Gander/ARP 49N40W 2039 F330 51N30W 2130 52N20W. CROWN 20 1950 USB Gander/ARP 58N50W 1947 F220 LOACH 2029 GOOSE. N718R 1957 USB Shanw'k/ARP 52N20W 1955 F370 53N15W 2032 BABAN. FRD330 2018 USB Gander/ARP 57N30W 2017 F370 54N50W 2105 OYSTR. TWA8551 1755 USB Gander/ARP 50N40W 1753 F390 49N50W 1845 VIXEN eta JFK 2142 sel/AE-GH (N606TW B767). N101SK 1758 USB Shanw'k/ARP 48N15W 1755 F370 ETIKI 1823 REGIE. N121DF 1855 USB Shanw'k/ARP 52N20W 1853 F370 52N15W 1913 DOLIP. N500LS 1905 USB Shanw'k/ARP 51N20W 1903 F370 51N15W 1924 GIPER. N90005 1906 USB Shanw'k/ARP 58N20W 1904 F390 58N30W 1949 57N40W. N314CF 1917 USB Gander/No selcal req.Torbay & Gander wx. N603GC 0900 USB Shanw'k/ARP 52N20W 0856 F260 52N30W 0944 52N40W. PAC5002 0917 USB Shanw'k/ARP 54N30W 0916 F330 53N20W 0957 53N15W. SHE930 1612 USB Shanw'k/Req.selcal ck-FQ-KM (G-DNVT G.4). N286GA UTC? USB Shanw'k/Req.selcal ck/BG-EK. N965CC 2047 USB Shanw'k/ARP 49N30W 2045 F430 49N20W 2129 49N15W. FDX9761 2051 USB Gander/ARP 55N30W 2049 F310 54N40W 2143 51N50W. N16NK 0736 USB Shanw'k/ARP 55N30W 0734 F410 55N20W 0815 55N10W. N21NG 1828 USB Shanw'k/ARP 56N20W 1826 F410 55N10W 1911 MAC. Relayed by AAL106.(LR35A). GTI120 1835 USB Gander/ARP 50N30W 1833 F310 48N40W 1926 46N50W. CFC2801 1843 USB Gander/ARP 59N40W 1840 F190 60N30W 1934 59N20W. CFC3625 1915 USB Gander/ARP 61N40W 1913 F390 63N30W 1945 EMBLA. N38AE 1701 USB Shanw'k/ARP 49N20W 1659 F370 49N15W 1728 GUNSO landing at Shannon. (W/wind 2) AMX034 1839 USB Gander/ARP 51N30W 1837 F330 51N40W 1939 48N50W selcal BC-QR (XARKI B767). N900LS 1757 USB Shanw'k/Req.selcal ck LQAB (G.4). N337MC 1857 USB Shanw'k/ARP 57N20W 1855 F410 56N10W 1938 MAC. AIN221 1917 USB Gander/ARP 55N40W 1915 F330 52N50W 2012 DOTTY. N900LS 1922 USB Gander/ARP 52N30W 1920 F390 52N40W 2015 51N50W. N157H 1924 USB Shanw'k/ARP 54N15W 1922 F390 54N20W 1947 55N30W sel/KR-BP? N153NS 1926 USB Shanw'k/ARP 50N20W 1925 F330 51N30W 2019 51N40W. FDX9761 1946 USB Gander/ARP 53N30W 1945 F390 51N40W 2041 48N50W. EXA62 1950 USB Shanw'k/ARP 51N20W 1948 F350 53N30W 2044 52N40W sel/BD-AP?? N680FM 0303 USB Gander/ARP SCROD 0300 F370 56N50W 0326 57N40W sel/FM-ER B757. N421SZ 1456 USB Shanw'k/ARP 52N15W 1455 F370 M.80 52N20W 1523 52N30W next sel/EQ-HP (CL61). N410M 1520 USB Shanw'k/ARP 61N20W 1519 F410 61N10W 1552 VALDI sel/BP-MQ (G4). N291H 1808 USB Shanw'k/ARP 46N20W 1806 F410 HIDRA 1846 STG. N23AC 1808 USB Shanw'k/ARP 57N20W 1805 F430 55N10W 1847 TADEX. N343MG 1808 USB Shanw'k/ARP 58N30W 1805 F390 58N20W 1841 57N10W sel/HL-GS (Da90) N776MA 1838 USB Shanw'k/ARP 56N20W 1836 F410 55N10W 1915 TRN. N49UR 1838 USB Shanw'k/ARP 52N30W 1835 F350 52N40W 1927 50N50W destination GANDER sel/KR-EH (CL61). N462QS 1900 USB Gander/ARP 53N40W 1858 F450 54N30W 1941 54N20W Sel/KR-EJ (G.4SP). C-GLRL 1910 USB Gander/ARP 59N50W 1908 F310 LOACH 1950 GOOSE sel/AH-QR (type ?). CFC3802 2022 USB Gander/ARP 53N40W 2021 F180 50N50W 2116 TORBAY. Navy LU064 2040 USB Gander/ARP 58N40W 2038 F250 63N30W 2149 EMBLA. Reach ODQ2 1957 USB Gander/ARP 45N40W 1950 F350 47N50W 2056 COLOR sel/EM-AD (N816CK DC8) Reach R2 2005 USB Gander/ARP PORGY 2004 F350 HOPEDALE 2014 CHURCHILL FALLS nxt ETA KDOV 2254 Fuel 97.1. SAM300 1803 USB Shanw'k/ARP KORIB 1800 F370 55N20W 1838 56N30W sel/DF-BS (90-0300 C-20G). Reach 11 2016 USB Gander/ARP 46N40W 2015 F330 45N30W 2101 43N20W ETA Destination 2340, copy to EWW. C/Guard 76 1424 USB Shanw'k/ARP 57N16W 1430 F220 61N1630W 1512 BREKI eta KEF 1557 & req Oceanic clr. Navy JW670 1955 USB Shanw'k/ARP 48N30W 1953 F270 46N25W 2037 44N20W. (AW2) N269HM 1334 USB w/Shanwick 52n 15w, 53n 20w 1333 fl390, 54n 30w 1426, 54n 40w ->8864 (Gander). Shell 14 1343 USB w/Shanwick (KC-...) cking in, 8864 backup. N502PC 1350 USB w/Shanwick 54n 20w 1346 fl390, 55n 30w 1440, 55n 40w -> 8864 (Gander) N101SK 1815 USB w/Shanwick, fl410. N121DF 1815 USB w/Shanwick, 51n 30w 1812 fl370, 52n 20w 1857, 52n 15w, selcal PQ-DM. VR-BMY 1818 USB w/Gander -> 5649: 53n 30w 1817 fl430, 53n 40w 1905, 51n 50w, selcal DE-GH, eta Gander 2030. (BH) Ford-300 2003 USB Wkg Gander, FL330, Ford Motor Co. C-GFRO: Skyservice 0812 USB Wkg Shanwick, FL390. Reach ODR2 1503 USB Shanw'k/ARP 52N15W 1502 F350 53N20W 1529 54N30W sel/DF-LM (N104CK L.1011 CKS) Reach 19Z 2039 USB wkg Gander, 61n 40w 2033 fl330, 58n 50w 2124, loach. Shell 14 1343 USB w/Shanwick (KC-...) ck'ing in, 8864 backup. NAVY LU122 0831

USB wkg Gander, FL240. (IB) Delta 92, 2342 USB wkg Gander, SELCAL ck EQ-AG. Polar 01, 2343 USB wkg Gander, SELCAL ck BL-GH, was still on ground. (KW2) BOXER52 1913 USB Gander/ARP 53N30W 1907 F330 53N20W 1947 53N15W -2007 BURAK To call Shannon VHF. PGT401 1150 USB Shanw'k/ARP 61N1234W 1153 F350 M.79 ALDAN 1223 sel/DG-HQ (TC-AFA B737). GEC802 0852 USB Shanw'k/ARP 54N20W 0849 F290 54N15W 0909 BABAN.(RD3) VR-CBL 0714 USB Shanw'k/ARP 48N15W 0712 F410 ETIKI 0743 REGHI. N343MG 1317 USB Shanw'k/ARP 54N20W 1316 F350 55N30W 1404 53N40W. DAL147 1524 USB Shanw'k,Ice/ 60N20W 1553 F350 62N30W 1631 62N40W -Squawk 3344 and call Iceland 126.55. UPS6077 1721 USB Shanw'k/ARP 50N30W 1720 F290 51N20W 1806 52N15W M.84 fuel 111.0 sel/CDPQ (? B747). FRD301 1722 USB Shanw'k/ARP MASIT 1712 F390 56N20W 1756 56N30W -M.80 sel/KQER (N301K G4 FoMoCo). (RD3) Polar Tiger 6532 0627 USB Wkg Gander for selcal (GK-DH). (TO) Shanwick 1913 USB w/ESCOM 21 (I think this is the spelling) 59N20W 19.13 FL.290, 57N15W 19.30 told to cnt Scot Mil 129.47 57N 10W. Also ESCOM 14 and 15 speaking on 5.616 about errors on their charts. Shanwick 1856 USB w/ N608RP 52N 30W 18.56 FL.370, 52N 30W 19.20, 53N 20W 20.20, 53N 15W Challenger, Selcal=MQHR. PAC (POLAR) 5114 1916 USB w/Shanwick, 57N 10W 19.16 FL.280, 58N 20W 19.54 FL.310 FUEL REMAINING 125.0, 57N 30W 20.30 Selcal=GKDJ. N180KT 1923 USB w/Shanwick, 54N 20W 19.23 FL.350 M.80, 53N 30W 20.17, 51N 40W, Selcal=FHAL. N468GA 1931 USB w/Shanwick, 56N 20W 19.31 57N 30W 20.1857N 40W, N6SG Selcal ck on BHEQ. Navy ZX24 1557 USB Shanw'k/Called by Shanwick many times-no answer! REACH 0571 2037 USB wkg Gander, OZN FL.230, 61N 40W 20.57, 63N 30W, Gander also wkg REACH 0570, 0569 all eastbound-judging by altitude. (TW)

5634 SIA406 1953 USB Perth/Another unid'station asked for sel for this flt ALGH (9V-SMG B747) F350 ? 2118. QFA64 1955 USB Mauritius/Unreadable by Mauritius-To call 3476. WOA271 1842 USB Perth/dep.Kuala Lumpur 1600/35 ETA OEJN 0059-Fuel 159.0 278 pax.To copy to WOA ops. SIA405 1850 USB Perth,Mauritius/ARP F370 Segar?1952.Flt cleared on track B.335. MAU066 1850 USB Mauritius/Called several times to no avail. (RD3)

5637 Unid a/c 0026 USB clg Mykonos - no reply that I hrd (TB)

5638 YRA: (Bucharest Air) 0549 CW w/ long "VVV TEST DE YRA K" style msgs. Immediately after, the operator at SWA (Athens Air) replied in fast CW "YRA DE SWA QSA 5 73" and the quick exchange ended w/ key double clicks.(CK)

5649 FNY5624 1422 USB Shanw'k/ARP 61N1234W 1420 F230 60N10W 1442 STN. N164RJ 1840 USB Gander/ARP 58N30W 1837 F430 58N40W 1927 56N50W. GAF428 2008 USB Gander/ARP 61N40W 2006 F200 OZN 2030 58N50W. GAF122 2026 USB Gander/ARP 56N40W 2025 F330 57N30W 2103 57N20W. XAAIS 2008 USB Gander/ARP 47N40W 2007 F390 47N50W 2105 YYT. RJA091 2021 USB Shanw'k,Ice/ARP 60N15W 2019 F280 61N1630W 2030 BREKI next.(unusual route?) I9001 1544 USB Shanw'k/ARP 53N20W 1546 F390 54N30W 1637 Req. Selcal ck AB-CG (MM62025 G.3 AMI). GAF207 1659 USB Shanw'k/ARP 63N30W 1658 F220 61N40W 1818 OZN. I2013 1928 USB Gander/ARP 51N40W 1926 F290 52N30W 2015 53N20W. D2-ECB 1925 USB Gander/ARP 50N30W 1924 F410 51N40W 2020 50N50W Sel/AM-BP (G3),Gander req. VIP status of POB for policing & security at YQX; was told it was 'The First Lady of Angola' on board !!!! VDA9932 0938 USB 55N20W 0936 F290 56N10W 1023 MAC. (AW2) Ascot 4233 1806 USB wkg Shanwic k (C-130, RAF, XV183), 52n 20w 1807 fl250, 52n 15w 1840, dolip, mid 52n 25w, selcal AH-KL -> 135.6 (Shannon). Ascot 5167 1832 USB w/ Shanwick (C-130, RAF) 52n 15w 1831 fl250, 52n 12w 1849, Cork, -> 135.6 (Shannon). ASCOT 5713: USB 5420/1903 FL250 5415/1931 5412/next. ASCOT 9258: USB 5850/1919 FL330 5940/2009 6030/2055 6020/2138 5910/next selcal LMGK. ASCOT 4287: USB 5230/1924 FL250 5220/2021 5215/next selcal AHGL. ASCOT 9114: USB 6030/1948 FL230 6020/2032 5910/next. ASCOT 5715: USB selcal AKBE 5450/2050 5540/next. ASCOT 9259: USB selcal EFAD 6030/ 2033 FL210 6020/2116 5910/next.(BH) VIR001: USB 6030/1854 FL370 6040/ 1921 5850/next selcal EJQR. DLH474: USB 6030/1910 FL370 6040/1950 4850/ next. AFR6400: USB 6130/1913 FL310 6040/1950. AZA620: USB 6020/1925 FL310 6230/2006 6240/next selcal FKEG. IBEAU: USB 5640/1931 FL390 5350/ 2026 GANDER (initial destination but diversion to Stephenville (2124) due to wx Gander (3/4 to 1 1/4 mile visibility in drizzle). KLM976: USB 5050/1932 FL330 5240/2017 5330/next. DLH404: USB 5930/2000 FL370 5840/ 2042 5650/next selcal CPBR. AZA614: USB 5830/2004 FL350 5840/2047 5650/ next selcal JKCD. ICE615: USB 5850/2013 LOACH/2044 selcal FQAG. P4-NAN: USB 6030/2027 FL430 6040/n selcal LQGH. INDIA 2022: USB 5830/2029 FL430 5740/2118 5150/n selcal ABCD. (HW) Easy 737 2044 USB EasyJet wkg

Shanwick. (IB) Gander Radio, 2336 USB wkg KLM 684, SELCAL ck AG-DP flt level 370. (KW2) Gander Radio: NF, CAN (NAT-C MWARA) 0158 USB wkg Speedbird 172 w/selcall ck DF-HK, reg G-BEBM DC10-30. (RB) SIA7998 1550 USB Shanw'k/Req. selcal ck/GSHQ (9V-SFD B747). AAN9903 1551 USB Shanw'k,S.Maria/ARP 59N20W 1547 F280 58N30W 1630 56N40W To call 88879. KLM625 1829 USB Iceland/Req.selcal chk/ER-DL (PH-BZD B767). DLH8189 1918 USB Gander/ARP 58N50W 1917 F290 58N40W 1952 57N30W. GAF219 1037 USB Iceland/ARP EMBLA 1035 F200 60N30W 1055 61N40W sel/GM-EP (C-160). AFR4886 1155 USB Iceland/Oc.clr.to KLAS via 61N10W 66N20W 68N30W 69N40W 70N50W 70N60W 6830N70W F310 M.82. RJA500 2200 USB Gander/ARP 51N50W 2159 F370 53N40W 2243 55N30W sel/DK-HJ (JY-HKJ L.101). (RD3) RAM205 0338 USB Gander/ARP 46N40W 0336 F390 45N30W 0417 41N20W sel/FJGR (CN-RGA B747). KLM691 1546 USB Shanw'k/ARP 59N20W 1543 F310 61N30W 1620 then req re-route via 62N40W 61N50W 59N60W LAKES-ACKES-YFM sel/GLJK (PH-BUN B747). AZA614 1524 USB Shanw'k,Ice'/56N20W 1552 F350 58N30W 1637 58N -40W.(RD3) Pakistan 712 0540 USB Req'd selcal from Gander (FL-AH). Lufthansa 493 0547 USB (CG-AF) Wkg Gander w/ARP 63N40W F370. Lufthansa 451 0549 USB Wkg Gander for selcal (AL-DH). KLM 606 0550 USB (AF-MR) Wkg Gander w/ARP 60N60W F370. Speedbird 296 0548 USB Wkg Gander (KM-CG) ARP 49N40W F330. Condor 073 0608 USB Wkg Shanwick (LM-BS) ARP 49N30W F370. Speedbird 6746 0532 USB Wkg Gander and Shanwick for selcal (BE-KM). Virgin 002 0533 USB Wkg Gander for selcal (EJ-QR). Speedbird 296 0536 USB Wkg Gander for selcal (KM-CH). Speedbird 214 0705 USB Wkg Shanwick (BD-AE) ARP 55N30W F330. (TO)

5655 SWR144 0315 USB Dakar/ARP MOGNI 0313 F350 RAKUD 0356 ONTER. SWR7021 0345 USB Dakar/ARP POLDA 0341 F330 RAKUD 0407 sel/CL-AF N600GC DC10. (AW2) United 805: 1630 USB wkg Singapore, posn ck. Sin asked a/c to contact Sin radar on VHF. Cathay 255: 1634 USB wkg Hong Kong, posn ck end selcal (AFBE). All Nippon 112: 1627 USB wkg Singapore, comm re-established, pos ck. All Nippon 112: 1627 USB wkg Singapore for selcal (DREG) and pos ck, comm interrupted due to severe QRN. Qantas 126: 1624 USB wkg Singapore, posn ck. Singapore 998: 1622 USB wkg Singapore, posn ck and selcal (?LA?). Asiana 381: 1618 USB clg Manila repeatedly for around 5 min, no joy,then wkg Hongkong for posn ck. Asiana 352: 1628 USB wkg Singapore, posn ck. Qantas 1: 1617 USB wkg Singapore, posn ck.(RO)

5658 Virgin 201 1929 USB wkg Karachi -> 119.3, later wkg Arumki [this Urumqi, China - LOGS] KLM 501 1930 USB wkg Bombay. Cathay 288 1931 USB wkg Arumki, 7400 mtrs, KCA 1944, sc:AFEL. Gulfair 050 1932 USB. Lufthansa 588 1933 USB wkg Cairo, SML 1931 fl330, nubar 1934, MRW 2004, eta Khartoum 2038 ->124.7 (Khartoum). Singapore 348 1934 USB wkg Bombay, Singapore - Athens, sc: ALFJ. Speedbird 28 1939 USB. Cathay 260 1940 USB wkg Arumki, 11100 metres, sc:ADJK. Sudanair 108 1941 USB wkg Cairo. Kenya 202 1941 USB. KLM 838 1948 USB wkg Bombay. Cathay 037 2008 USB wkg Bombay, 2116 in ctct Muscat, sc:DLEK. Cathay 017 2010 USB wkg Bombay. Emirates 071 2012 USB wkg Bombay, sc:BPAR. KLM 887 2018 USB wkg Arumki, 11400 mtrs, KCA 2034, RM 2101. KLM 878 2026 USB wkg Lahore. El Al 085 2028 USB wkg Mogadishu. KLM 833 2030 USB wkg Karachi Amsterdam - Singapore -> 128.3, sc: DJBG. Speedbird 26 2032 USB wkg Arumki, 9600 mtrs. Saudia 9626 2034 USB wkg Bombay destination Kuala Lumpur, sc:EFCH. KLM 564 2049 USB wkg Khartoum Nairobi - Amsterdam, sc:AFGR. Lufthansa 779 2055 USB wkg Delhi. Speedbird 68 2058 USB wkg Khartoum Nairobi - London. Air India 822 2058 USB wkg Bombay, destination Bombay, sc:JLCE. Swissair 187 2100 USB wkg Karachi. Europa 105 2104 USB wkg Bombay, Bahrain - Bangkok, sc:HSGK. Mauritius 748 2106 USB wkg Bombay. Cairo atc 2253 USB "493" at FL350 to Cairo control. (DB3) ACS-702: AirCess 2131 USB wkg Khartoum, FL350. (IB) BAW62 2119 USB Asmara/ARP TOKAR 2208 F310 To call Asmara 120.7. AHK1 2218 USB Bombay/(Bangkok-Dubai) TUGIT 2215 F310 MAROB -2300 MCT 2334 To contact Muscat on VHF. DLH757 2220 USB Bombay/ARP TUGIT 2215 F280 MAROB 2301 sel/AF-KM (D-ABZD B747) KLM503 2253 USB Bombay/To Dhaka sel/DM-AF (PH-BUU B747). PAL567 2254 USB Bombay/(Dubai-Manila) F330 sel/GH-EJ(N208AE B747). QFA15 2300 USB Bombay/ARP MAROB 2255 F350 MUSCAT 2329 To 124.55. DLH755 2227 USB Bombay/ARP BISET 2226 F310 KIBIT 2319 SUR sel/ LMGS D-AIGC A340. CPA037 2224 USB Bombay/ARP MAROB 2224 F310 MCT 2301 In contact w/ Muscat on VHF. CSA165 2207 USB Bombay/SUGID 2203 F350 MAROB 2257 sel/ CK-AQ (OK-WAA A310) DLH591 2208 USB Cairo,Khart'm/ARP ME 2206 F350 ALEBA 2231 UMINI 2249 LXR 2309. THY590 2209 USB Khart'm/(LTBA-FAJS)

SML 2253 F330 sel/AP-CR (TC-JDC A.310) KAC301 2218 USB Bombay/SUGID 2227 F330 To call Bombay 125.9 TWA785 2219 USB Khart'm,Cairo/Cairo asked for nx on this flt from DNMM to CAIRO. KJA314 2220 USB Khart'm/ ENTEBBE-CAIRO via NUBAR 2252 F310 a/c B.707 Avistar Ltd. AIC703 2221 USB Bombay/ARP MAROB 2217 F310 To call Muscat VHF. DLH773 2222 USB Bombay/ ARP KIBIT 2225 F350 To call Muscat VHF. ?- air 800 2226 USB Bombay/ARP MAROB 2224 F290 BILAT 2255 req.F330 sel/HS-GP ??(Possibly Iranair-any ideas). BAW12 2227 USB Dushanbe/Called several times-no reply, then tried calling SAS991-again no reply !! GFA054 2228 USB Bombay/ARP MAROB 2238 F350 sel/CGDR A40-?? A320. TAW785 2236 USB Cairo/dep.LAGOS ETA CAIRO 2336 F370 AST 2306. SFB566 2235 USB Khart'm,Cairo/(CAIRO-KIGALI) F270 SML 2321 MRW 2356 KTM 0011 R.F330 a/c AN124 (Leased a/c?). KLM874 2240 USB Dushanbe/Called but no reply. SVA988 2240 USB Karachi/ARP ALPOR 2243 F330 LATEM 2307 sel/CG-HJ HZ-AIU B747 To call 128.3. ALK505 2241 USB Karachi/(Colombo-LHR) sel/AC-BK (4R-ADC A340). THA517 2245 USB Bombay/ARP SUGID 2242 F310 MAROB 2336 SULAR sel/CJ-HM (HS-TAG A300). AOM754 2246 USB Khart'm/(REUNION-MARSEILLE) TOKAR 2317 F310 ME 2329 a/c DC-10. SAA152 2248 USB Bombay/ARP DARMI 2246 F280r350 DAMON 2312 DONSA sel/ES-LQ (ZS-SRA B767). ALK581 2253 USB Bombay/(COLOMBO-ZURICH) sel/EM-BD (4R-ADA A340). AIC952 2255 USB Bombay/ARP DAMON 2254 F290. SAB575 2256 USB Khart'm,Cairo/(HKNA-EBBR) F280 ANTAX 2227 (A340). KAC365 2259 USB Bombay/ARP VERLA 2235 F330 DAMON 2253 GURKA 2322 KAGLU 2335. DLH730 2259 USB Urumchi/ARP KCA 2316 sel/AL-EG (D-ABVE B747). MAS4150 2316 USB Bahrain/Called several times-no reply. CPA038 2301 USB Bombay/ARP MAROB 2258 F330 BILAT 2329 SUMOS sel/KL-CG (VR-HIH B747). GFA150 2317 USB Bombay/ARP MAROB 2319 F370 sel/EP-MR (A40-GY B767). KLM844 2320 USB Karachi/ARP TIGER 2333 F310 sel/DM-BE PH-BFG B747. ALK581 2322 USB Bombay/ARP BOTAN 2333 F310. SVA820 2321 USB Bombay/ARP KIBIT 2341 sel/AF-GK (HZ-AIM B747). MAU028 2326 USB Khart'm/ARP TOKAR 2321 F350 ME 2324 ALEBA 2358. UAE079 2327 USB Bombay/ARP KIBIT 0022 F350 sel/FQ-GL (A6-EKB A310). TAW786 2010 USB Cairo/LROP-GRYR SML 2104 F330 (EL-JNS B707). AML710 2011 USB Saana/ARP enula ? alora ? eta DUBAI 2303 a/c -B727 reg'n 7Q-YKA ! sel/ASDF (I have this listed as 7QYKP B737,does anyone know if Air Malawi -now have a B727 ?!)First time hrd Saana. Reach 165Z: USAF C-17 1945 USB wkg Nairobi, Mombassa - Frankfurt, handover Nairobi - Khartoum. Reach12 2208 USB Bombay/ARP ELKEL 2215 UBDOR 2323 Direct to BOTAN 0052 sel/AS-FP (N755AT B757 AMT). (RD3)

5661 Saudia 341 0615 USB Wkg Malta (EM-HL) enroute Jeddah-Algiers est posn ARLOS 0630 NOFSA 0701 o/h MLG 0731. (TO)

5670 Madras 2048 USB wkg Malaysian-157, FL370. Madras 2049 USB wkg RJA-1189, Royal Jordanian Airlines. Madras 2050 USB wkg Lufthansa-779. Madras 2050 USB wkg N727WF, I don't know what this Westfield Shopping 727 is doing in that area of the world, but i have seen him here in Cairns many times. Madras 2051 USB wkg Singapore-25. (SB)

6535 IBE6811 0302 USB Dakar/ARP ONOBI 0300 F350 MOGNI 0342 RAKUD sel/EJ-GL (EC-DIA B747). ARG1127 0302 USB Dakar/ARP GAPOL 0252 F350 BURED 0332 M.84 sel/JL-FG (LV-MLP B747). VSP751 0310 USB Dakar/ARP RAKUD 0309 F390 POLDA 0339 sel/CF-JK (PP-??? MD11). BFS9721 0311 USB Dakar/ARP IDINI 0305 F330 AR 0331 ZRT 0350 BIMOK 0409 ESHET 0429 a/c B727, Constellation. VSP780 0633 USB Dakar/ARP MOGNI 0631 F370 ONOBI 0714 CVS. RKA9922 0358 USB Dakar/ARP RUSTY 0354 F300 climbing 370 MOLAT -0427 GISAT 0440 Bamako to Paris CDG sel/BD-EL -5X-JEF B707. SWR7021 0400 USB Dakar/ARP RAKUD 0359 F370 MOGNI 0441 ONOBI sel/-N601GC DC-10. AZA680 0400 USB Dakar/ARP ONTER 0358 F330 LIROL 0446 EG next sel/FK-DE (I-DUPD MD11). (AW2) VSP772 2216 USB Dakar/ARP RAKUD 2211 F370 MOGNI 2252 ONOBI M.81 sel/CEBD PP-SOW MD11. VRG715 0357 USB Dakar/ARP ONOBI 0355 F350 MOGNI 0442 RAKUD sel/FQ-GJ (PP-VOL B767). SAA6208 0403 USB Sal /ARP ULTEM 0401 F370 GAMBA 0431 POKLA ETA SAL 0505 sel/FJ-EL (ZS-SAR B747F). SWR7021 0405 USB Dakar/ARP RAKUD 0403 F370 MOGNI 0444 ONOBI (opr.by Sun Country DC-10). GHA150 0405 USB Sal/ARP est.LUMPO 0412 F310 POKLA 0450 GAMBA 0505 23N30W 05453 (ACCRA-JFK) P4-AFE 0401 USB Dakar/ ARP KENOK 0359 F390 SAGRO 0442 M.85 NAVIK sel/KL-AD (B747SP). V8-JP1 0413 USB Dakar/ARP SAGRO 0411 F350 NANIK 0449 ESPOT. (RD3) RKA9661 0339 USB Dakar/ARP dep.OUAGADOUGU 0229 eta DAKAR 0452 via ONTER 0337 F390 BEMOL 0400 TD 0408 (B707) AZA6673 2257 USB Dakar/ARP RAMOT ODRAT 2325 F370 BUPON 2330 ARDUS. SWR147 2258 USB Dakar/ARP TAROT 2254 F330 YF 2323 To call 120.5. AZA673 2258 USB Dakar/ARP TAROT F370 GASEL 2307 YF 2326

To 120.5. SAB5072 2300 USB Dakar/Conakry-Brussels via IRALO F290r330 -AR 0001 sel/EMDK (OO-SCB A310). ARG1162 2300 USB Dakar/ARP MERON 2342 F370 TAROT 0028 M.85 sel/BMHL (LV-MLO B747). KLM579 2301 USB Dakar/ARP DEMOL 2300 F330 TIPAD 2316 TAMUL 2349. VRG973 2307 USB Dakar/ARP BULOS F350 ONTER 0017 M.82. VRG765 2309 USB Dakar/ARP ZRT 2308 F310 AR 2325 IDINI. RRR3221 2330 USB Dakar/ARP Equator/16W 2328 F330 05N17W 0004 10N/18W next. RAM280 0440 USB Dakar/ARP TAS 0434 F350 eta CASABLANCA 0740 -sel/ AECP B757 CN-RMZ (relaye by VRG757). CLX760 0441 USB Dakar/ARP Oldir ? 0507 F310 NOR next. (RD3) Lufthansa 503 0528 USB Wkg Dakar (LM-DS) ARP MOGNI F330 ONOBI-CVS. Varig 757 0530 USB Wkg Dakar (AM-GP) ARP KENOX F310 .82. Lufthansa 8264 0538 USB Wkg Dakar just caught selcal ck (FM-DJ). Lufthansa 527 0539 USB Wkg Dakar (AL-DM) ARP AR 0538 F370. Varig 738 0545 USB Wkg Dakar (CR-FK) ARP RAKUD F370 .83. Air Afrique 9974 0557 USB Wkg Sal (BD-EL 707C 5X-JEF) ARP JFK-Dakar F330 est GAMBA 0612 BUGAT 56 CVS 0706 ETA 0755. (TO)

6550 Rockwell Flight Test: 0706 USB conducting R/C w/ 606FE (JP)

6556 Merpati 762 2030 USB wkg Ujung Pandang. Vietnam 535 1518 USB wkg Calcutta, Selcal-LSCH, FL350. F-GIDE: Air Falcon 1815 USB wkg Calcutta. VR-BSS: Unid 1601 USB wkg Perth. (IB) ANZ882 1724 USB Brisbane/Told that F370 not avbl due tfc-QFA86 -To call Brisbane 135.3 for higher. AFR173 1724 USB Calcutta/ARP Dugit? 1747 F310 JJS next sel/AQPS -FGNID A340. ROT064 1730 USB Calcutta/Bangkok-Bahrain via TUNKO 1711 F350 -BERKO 1756 VVZ 1836 sel/BJMR (YR-LCB A310). (RD3) Anset 888: 1539 USB wkg Perth posn ck & selcal, (HJGK). Singapore 221: 1538 USB wkg Perth posn ck. Singapore 229: 1610 USB wkg Jakarta for selcal (DFHK), dest. Adelaide. Qantas 126: 1615 USB clg Perth, no reply. Merpati 938: 1547 USB wkg Perth for selcal (????). Brunai 738: 1545 USB wkg Jakarta for selcal (GJAB). Asiana 222: 1537 USB wkg Jakarta posn ck. Singapore 227: 1532 USB wkg Jakarta for selcal (KQPS). United 1: 1601 USB USB wkg Calcutta posn ck, faint signal..Singapore 289: 1530 USB wkg Perth posn ck. Qantas 62:1555 USB wkg Jakarta for selcal (EGDL), 30 miles right of track due to weather.. Qantas 42: 1606 USB wkg Kuala Lumpur for selcal (LQCD).(RO)

6586 AMX454 2239 USB NY/ARP JESSE 2256 F370 FLORI sel/BCJS XA-RVZ. BAW58 0014 USB Accra/ARP TENTU 0053 F350 SENOR 0043. NWA1717 2148 USB NY/ARP BROOM F350 JAINS 2217 OLDEY sel/AL-GM N159US DC-10. FIN134 2200 USB NY/ARP JESSE 2158 F290 FLORI 2226 HOLMA M.75. AAL1728 2153 USB NY/ARP FLORI 2148 F350 CHAMP 2242 BERGH. USA1970 2202 USB NY/ARP NANCE 2224 F310 BERGH 2250. LTU1533 2203 USB NY/Clr'd to EDDF via A699 NAT-Z-GUNSO M.80 F330 ARP MOIRE 2203 F290 ODEAL 2222 x32N at F330. ETH970 2203 USB Accra,Abidjan/dep.2130 eta ACCRA 2240 F230. DAL210 2206 USB NY/ARP TARGA 2205 F390 LACKS 2252 SCU sel/HQCL. N1SL 2233 USB NY/ARP RIGNY 2231 F410 FLORI 2250 ODEAL sel/CGHR. DHL512 2235 USB NY/LAMER 2234 F280 FLORI 2318 CHAMP sel/EFDG ?? DLH463 2236 USB NY/ARP JESSE 2234 F290 FLORI 2301 HOLMA. USA1042 2237 USB NY/ARP F310 To cross BACUS at F290 due tfc. BWA426 2239 USB NY/ARP DRIBL 2227 F310 MOIRE 2237 BACUS sel/ FG-BH (9Y-THW MD80). USA1042 2204 USB NY/ARP FLORI 2203 F310 ODEAL 2225 BACUS. (RD3)

6592 Irkutsk Aero 1629 USB wkg Aeroflot ??? in RR (MB3)

6622 BEAR70 1443 USB Shanw'k/ARP 60N15W 1440 F210 57N10W 1530 TIR. VR-CTA 1246 USB Shanw'k/req. selcal chk GQ-CK (Da.90) PAC6002 1343 USB Shanw'k/ ARP 52N15W 1340 F350 52N20W 1411 53N30W sel/HK-LM (N857FT B747). N944AD 1557 USB Gander/ARP 50N40W 1553 F370 51N30W 1635 52N20W. Reach 11 1910 USB S.Maria/ req.oceanic clr.to KNGU-41N20W 43N30W-45N40W-46N50W-BANCS F350 M.80 sel/GH-LM N500MH.(AW2) COA25 1310 USB Shanw'k/ARP 56N20W 1306 F310 57N30W 1351 56N40W. UPS6571 1818 USB Shanw'k/ARP 55N20W 1817 F290 KORIB 1844 BABAN. N1086 1821 USB Shanw'k/ARP 54N20W1815 F410 51N15W 1837 BABAN. GAF251 1323 USB Shanw'k/ARP 54N15W 1321 F390 55N20W 56N30W sel/ CJFM (12+03 CL61). XA-SIM 1325 USB Shanw'k/ARP 53N15W 1323 F390 54N20W 1348 55N30W sel/BDPS (Da90) N70AG 1335 USB Shanwick/selcal ck CMBL (G.3) Reach GXG5 1447 USB Shanw'k/Re-dispatch route via BASET to ETAR F370. Reach DO8 1303 USB Shanw'k/ARP 55N10W 1300 F350 57N20W 1345 58N30W -eta destination 1945 sel/AKCE (N990CF DC8). (RD3)

6628 Reach 11 2132 USB w/Santa Maria 40w 2233. (BH) RKA9963 1948 USB NY/ARP 29N35W 1945 F330 32N40W 2027 32N45W. CUB472 2201 USB S.Maria/ARP 29N40W 2149 F370 29N30W 2257 29N20W. MPH912 2202 USB S. Maria/ARP 21N55W 2200 F330 27N50W 2256 32N45W. (RD3)

6637 FBF426 0410 USB Miami/dep.MEDELLIN 0345/59 eta MIAMI 0654 fuel 56.0

cargo-56008 lbs (N426FB DC8). AAL900 0420 USB Houston/ARP KOLSA 0351 F350 next call o/h -RIO BRANCO. EIA479 0423 USB Miami/dep.? 0400/18 eta SAO PAULO 0723 cargo -208410 lbs sel/CG-AK (N479EV B747). SJM923 0410 USB Cedar Rapids/dep.MIA 0330/43 eta BARANQUILLA/0810 fuel 30.0 cargo 10700 lbs. PAC1773 0430 USB Miami/dep.PORT OF SPAIN 0407/22 eta RIO 0912 payload 100.5 sel/FJ-BG (N808MC B747 GTI). CKS61C 0734 USB Miami/p/p to CKS ops-dep.MGT 0655/0715 eta MIA -0925 dep fuel 49.9 payload 78873 sel/JK-PQ (N6161C DC8). PAC52 0740 USB Miami/selcal ck/ GK-DL (N851FT B747). N508DC 0630 USB Miami/dep.BOGOTA 0415/46 eta MIAMI 0807 fuel 64.0 uplift 4466 USgals, cargo 74002 lbs. Delay due to ATC. Copy to Fine Air,Miami.(DC-8). EWW808 0302 USB Miami/arr.GEORGETOWN 0019/25 dep.0240/48 eta CHARLESTON 0413 fuel 41.2 payload 69626 USgals. UAL993 0345 USB Cedar Rapids/req. selcal ck KM-CP (N611UA B767). CDN101 0244 USB Miami/posn TESAL 0241 eta YYZ 1030 fuel 157.8 sel/ DL-GH (CGCPJ DC10). SCX7020 0310 USB Miami/dep.DAKAR 0242/56 eta RIO 0916 dep.fuel 174.2,uplift 21149 US gals. APW9501 UTC? USB Miami/Relay to Company to disregard mx.status. TBA802 0312 USB Houston/posn 09S56W 0310 p/p to EIA ops-No.2 -generator faulty & has been disconnected.a/c N470EV B747. CKS106 UTC? USB Miami/req.selcal ck DG-BM (N106CK L101) CKS801 UTC? USB Cedar Rapids/req.p/p to Ops-told to call 8933. FBF426 0350 USB Miami/dep.SVMC 0333/42 eta MIA 0619 dep fuel -49.5,uplift 5224 USgals sel/DK-GJ N426FB DC8). (AW2) ?487, 0030 USB wkg Cedar Rapids, pp dispatch for Anchorage wx. ?731, 0153 USB wkg Miami Radio, SELCAL ck -- which didn't work. 62S, 2356 USB wkg Houston Radio -- Selcal ck "CB-NE". Lufthansa 8910, 0009 USB wkg Miami Radio -- Selcal ck "BF-EJ". American 812(4?), 0012 USB wkg Miami Radio --dep San Juan 2340 w/ ETA Miami 0209. Laker 706 0050 USB wkg Houston Radio -- Attempts at various pp's to confirm ops; ETA Atlanta 0350Z. Meya Jet 815 0103 USB wkg Miami Radio -- Selcal ck "HK-DJ"; dep Caracas Venezuela 0053 w/ ETA Port of Spain 0150. Connie 801MG, 0112 USB wkg Miami Radio -- On ground MHLM (Honduras?) 0100/105; will advise when airborne again. N917W, 0112 USB clg Miami Radio -- No joy; Gulfstream Aerospace G IV (2 turbo jet, capacity 22 passengers) a/c owned by NAVAIR LLC. Northwest 17: 2236 USB calling Cedar Rapids Radio no joy. Connie 61C: 0124/0129 USB wkg Miami Radio re departure from Honduras -- Miami couldn't copy very well qsy 10023 w/ no joy. A6FPD: 0126 USB wkg Houston Radio pp Ops re eta Rochester (KSRT) 0305. DHL 512: 2234/2235 USB wkg Houston Radio (no joy) & MIAMI RADIO pp DHL Flt control re half way posn rpt eta JFK 2351Z. United 990: 0044 USB calling Cedar Rapids Radio no joy (KW2). CKS803 2308 USB Miami/Dep.MIAMI w/ selcal chk/BMGJ N803CK. AMT8176 0340 USB Miami/dep.SBGR 0305/20 eta TTPP 0607 fuel 124.0 359+1 pax sel/HLJK (N188AT L.1011) APW238 0350 USB Miami/dep.BOGOTA 0435/50 eta MIAMI 0754 fuel -58.0 payload 82744lbs sel/KMDJ (N802BN DC8). (RD3) IFO97 0506 USB Wkg Houston LDOC/dep ?PB 0455/57 ETA YQX 0754 pax 92 fuel 53.7. Unfortunately I missed the departure airport and "true" ID of this a/c. Any further details regarding this flight would be appreciated. CKS 103 0523 USB Wkg Miami LDOC on the ramp at Cali; arrival Cali 0416 fuel remaining 24.0. Fine Air 434 0543 USB Wkg Miami LDOC: dep BOG 0455/ 0515 ETA MIA 0834 dep. fuel 58.5 (DK-GJ). (TO)

6640 New York Arinc, NY, US (NA-CC-LDOC) 2233 USB wkg DHL 541 w/pp "Sunshine Flt ctl" re 10,000 lb oil drilling bit & proper loading. At 2238, wkg United 952 w/selcal ck AG-JS (767 N654UA); at 2312 w/American 56 on the ground at Miami for selcal AH-KQ (MD-11 N1755). (RB)

6649 KLM792 0411 USB Recife/ARP RAKUD 0411 F330 sel/KL-JP (PH-BFN B747).(RD3)

6683 An off-freq Northwest flight 925 1802 USB clg San Francisco Radio on "6673" for about 10 mins. No joy (No wonder.) He must have went to a different meg range---never did come up on 6673. (JJ)

6692 Yuzhno-Sakhalinsk: ATCC Russian Far East 0546 USB wkg Khabarovsk (ATCC) and "Sov Gavan" (Sovetskaya Gavan) in RR w/flight info on Unid a/c.(DW2)

8825 AFR520 1426 USB S.Maria/Rx.Oceanic clr. To TFFR via 4330N13W 43N15W-41N20W-37N30W-32N40W 25N50W 18N5850W 17N60W-PPR M.84 F350. KLM761 1427 USB S.Maria/ARP 33N40W 1421 F330 26N50W 1538 22N55W req.F350 sel/BM-CG (PH-BUR B757). AVA011 2057 USB NY/ARP 29N40W 2052 F370 23N50W 2107 15N60W. TAP199 2118 USB S.Maria/Req.Oceanic Clr:-Lisbon to Ponta Delgada via Comos? 2135 38N60W DPD M.73 F350 sel/ALEG -CS-TEN B737.To call 6628. (RD3)

8828 Honolulu Radio, Hawaii 1102 USB weather for Los Angeles etc (EW) Honolulu Radio, 0155 USB aviation wx segement for Alaska & Western

Canada areas. (KW2)
8831 Speedbird 227 1347 USB Wkg Gander (EK-MQ) ARP 54N30W F330. Delta 41 1404 USB Wkg Gander (AH-DM) ARP 56N30W F330. American 173 1406 USB Wkg Gander (JK-EF) ARP 52N30W F350 68.1 fr. TWA 925 1407 USB Wkg Gander (AE-GJ 767-200ER N607TW) ARP 53N30W. American 55 1413 USB Wkg Gander (AP-KQ) ARP 53N30W F350 53N40W next. USAir 781 1416 USB Wkg Gander (BF-MP) ARP 57N30W F370. Saudia 021 1418 USB Wkg Gander (AF-JM) ARP 57N30W F350 .85. (TO)
8840 Bombay Radio, India 1257 USB Bombay control calling air India flight to Bangalore (EW)
8843 Honolulu: (CEP-1/2 MWARA) 0225 USB wkg Air Trans 610 w/0224 posn, adv contact SFO on 5574; at 0226 wkg Delta 1562 w/0226 posn, req for FL 340, contact SFO on 5574. (RB)
8852 unid (ElAl?) 2053 USB ground stn passing WX for LFBL (Limoges) to an a/c (I always had ElAl on 8837 / 8924, but never on this one.) (MB3)
8855 Transbrasil 794 0537 USB Wkg Manaus w/ARP F350 and selcal (JK-DS). American 972 0542 USB Wkg Manaus w/ARP Boa Vista 0538 F350. VASP 840 0610 USB Wkg Manaus o/h NANDA 0607 F350 MAN 36. (TO)
8861 VARIG 743: 0353 USB wkg Dakar AFCC w/flt info.(DW2) AFP 0062, Unid 1851 USB wkg Dakar, Selcal- BHQS. Mauritania 762 1530 USB wkg Canarias, FL270. Damania 212 1539 USB wkg Calcutta, (Calcutta to Bombay). Nagpur Aero (IND) 1544 USB wkg Calcutta. TU-TAI Air Afrique 1819 USB wkg Dakar, Selcal- HSDG. BES-362: Bird Express 1831 USB Wkg Dakar. MIA-101: Unid 1500 USB Clg Canarias, no reply. (IB) 5T-TJY 1933 USB Canarias, Nouakchott/ ? 1920 Nouakchott said that this a/a is on 133.0 (Canarias) type -PA31T Cheyenne Air Mauritanie!! IBE9723 1936 USB Dakar/Madrid to Dakar ETA 2045 via LOLOS 1936 -PE 1941 NULET 1959.sel/GLCD (EC-EMX DC8). IBE3960 1939 USB Dakar,Canarias/passed tfc via PE 2010. BAW68 1949 USB Jo'burg/Called this fl/t several times no answer. Jo'burg 1950 USB Dakar/Called for a radio ck very clear! CKS395 1851 USB Recife/ARP very faint F310 cl.350 req.Recife wx. at 2000.sel/CKDH (N808CK DC8). GCB1819 1749 USB Abidjan,Roberts'/F350 eta CONAKRY 1909. TAR611 1752 USB Dakar,Canarias/tfc PE 1827 F350 KC 1853.(RD3) Varig 710 0554 USB Wkg Dakar req F370 and selcal (FQ-GJ). VASP 784 0552 USB Wkg Dakar (DL-EJ) ARP RAKUD 0549 F370. Iberia 6843 0550 USB Wkg Recife (HL-BD) ARP RAKUD F310. Malaysia 202 0552 USB Wkg Johannesburg ARP 5E 0551 F370 Equator 0621. Air France 242 0553 USB Wkg Recife (HL-FJ) ARP NANIK F350. Springbok 204 0600 USB Wkg Recife ARP ONSEK 58 F370 TURAB 0618. (TO)
8864 N292GA 1156 USB Gander/ARP 57N30W 1155 F350 57N40W 1242 55N50W M.75 sel/DK-AL (CL61). CUB421 UTC? USB Shanw'k/req.o/clr-SEVIR-45N15W-44N20W-40N30W-35N40W-30N50W-26N60W-GRANN-GTK-ZIN-To MUCU F350 M.84 sel/BE-DK (FGNEM DC10). N548CL 1101 USB Gander/ARP 54N30W 1059 F330 54N40W 1147 52N50W eta GANDER 1316 sel/KR-GL. Reach DO7 1304 USB Shanw'k/ARP 55N20W 1303 F270 MASIT 1334 DEVOL -eta destination 1445. (AW2) JERSEY-41 1320 USB wkg Gander Aero w/Emergency. One Engine shut down, FL340, & req FL270. Req to proceed to Keflavik. A/c checking in on this frequency, are being diverted to other frequencies. ESKAN 14 1651 USB Wkg Gander, FL290. (IB) United 934 1109 USB trying to work Gander for posn. report. No reply from Gander. Shanwick comes up and tells UA 934 to pass posn & they will relay. (MB3) N160GC 1323 USB Gander/ARP 55N40W 1322 F410 52N50W 1430 YQX sel/ABDG (LR.36A) clr.up to F450 @ 1358. DAL133 1550 USB Gander/ARP 60N30W 1548 F350 60N40W 1625 58N50W sel/EQAJ (N177DN B767). AAL41 1551 USB Gander,Ice/ARP 60N40W 1549 F330 63N50W 1623 -62N60W sel/HPQS (N376AN B767) Fuel 66.0. AAL141 1552 USB Gander/ARP 60N40W 1547 F330 58N50W 1632 PORGY. (RD3) N159H 1316 USB Wkg Gander for selcal chk(KR-BP). American 65 1400 USB Wkg Gander (BG-AD) ARP 52N30W F310. Air Canada 881 1421 USB Wkg Gander (HP-EL) ARP 55N30W F350. After transmitting ARP, Gander requested the a/c's selcal code. The pilot responded w/ "We've already checked it." Gander replied "with who?" AC881 replied in a rather irritated tone "with Shanwick. Our manual states that we are only required to ck our selcal once." !!! Reach 0161 1403 USB Clg Moncton (!) here no joy. (TO)
8867 VH-NJF: Aus. Air Express 0553 USB wkg Brisbane. VH-TQP: Eastern Australian Airlines 0554 USB wkg Brisbane. VH-TAS: TAMAIR 0557 USB Wkg Brisbane, QSY>5643. Air Nauru-136 0620 USB wkg Brisbane. Freedom 414 0658 USB wkg Auckland. Southern Air-1002 0716 USB wkg Brisbane. VR-BLG 0733 USB wkg Auckland control. At 0805 UTC, Auckland requested VR-BLG to QSY to --"One Zero Zero, Decimal Two Four " and to "Contact

Kessler" ??-- not sure on the exact name but it sounded like that. Now - my first impression was that this was a VHF frequency - because of the way it was read out, but I decided to try 10024 Khz, and sure enough there was VR-BLG wkg "Kessler"??? I could barely hear this station. (IB) (see 10024 -LOGS) Ansett 873 0613 USB Wkg Auckland reporting beginning descent into Norfolk Island at this time from F240, AKL req they report on the ground after arrival. United 816 0614 USB Wkg Nadi for selcal chk (AS-EG) at F290. New Zealand 217 0616 USB Wkg Brisbane ARP F310. Ansett 875 0617 USB Wkg Nadi w/ARP TABAL 0617 F250 BOGOG 0632 FIR boundary 0639. Qantas 37 0620 USB Wkg Auckland ARP F330 ground speed 464. Qantas 7550 0623 USB Wkg Brisbane ARP F310 told to QSY BNE CTR 128.6 at JORDI? Air Van 11 0624 USB Wkg Brisbane w/ARP F330 JORDI? 0711. New Zealand 50 0627 USB Wkg Nadi requesting .78 due to mod turb at F350 at .80. New Zealand 197 0628 USB Wkg Auckland ARP F390. LAN Chile 5133 0635 USB Wkg Tahiti ARP F350-390 at pos. SUNTA. Polar Tiger 281 0636 USB Wkg Nadi ARP F350 est DEMAR? 0719. Polynesian 1748 0637 USB Wkg Brisbane (CS-FJ) ARP DOVOM F350 .75 dest. Melbourne. Pacific 431 0658 USB Wkg Nadi ARP F350 .74 EMSOK? 0746. New Zealand 17 0709 USB Wkg Tahiti (BG-AD) ARP WIBIG F350 .84 REVRO 0733 RUTAK next. LAN Chile 5133 0711 USB Wkg Tahiti ARP block F350-390 at SADIT 0710 next report at posn SELVU. (TO)

8879 AFR358 1638 USB Gander/56N40W 1636 F350 54N50W 1724 CARPE.(AW2) MGD-7232: Northern-East Cargo 1140 USB wkg Shanwick. (IB) RRR9056 1842 USB Shanw'k/Told to cross 16W @ F250 due to JMC activity at F240 and below. RRR9492 1842 USB Shanw'k/Will operate in the block F50 to F230 after 20W. (RD3) Air France 061 1312 USB Wkg Gander (CP-JQ) ARP @ 59N40W. Scandi 941 1314 USB Wkg Gander (EH-FJ) ARP 59N30W F330. Speedbird 183 1315 USB Wkg Gander (HP-BL) ARP 57N30W F350. Yemenia 838 1318 USB Wkg Bombay (BM-AG) ARP F330 est MITAL 1330 727-200 7O-ACX. Lufthansa 400 1320 USB Wkg Gander (JR-CK) ARP 55N30W F350. Martinair 631 1321 USB Wkg Gander (CE-BS) ARP 54N30W F330. Scandi 903 1322 USB Wkg Gander (EJ-DH) ARP 60N30W F310 .80. Scandi 907 1325 USB Wkg Gander (BF-CG) req higher alt due wx. Speedbird 213 1329 USB Wkg Gander (GJ-DR) ARP 55N30W F390. Tnx to Nick Birrel of Boston for tie-up on this one, was 777 G-ZZZD. Sabena 539 1343 USB Wkg Gander (FG-AL) ARP 55N30W F330. Speedbird 173 1345 USB Wkg Gander (BE-CK) ARP 55N30W F310 -48 156/87. Speedbird 197 1349 USB Wkg Gander (EL-BQ) ARP 55N30W F350. Speedbird 277 1352 USB Wkg Gander (DH-CL) ARP 59N30W F310 then 61N40W and 62N50W--req'd after this pos. HADLO. Alitalia 600 1410 USB Wkg Gander for selcal (LR-JS). Leisure 849 1417 USB Wkg Gander (CR-ES) ARP 55N30W F310. Speedbird 175 1423 USB Wkg Gander (BD-EF) ARP 56N30W F330. Shamrock 105 1424 USB Wkg Gander (DG-JQ) ARP 56N30W F370. Ascot 4804 1355 USB Wkg Gander (AH-GM) ARP 58N30W F240 req F260(TO)

8891 AFL323 1511 USB Iceland/ARP 80N40W 1509 F330 7917N50W 1527 7805N /60W next. LOT001 1424 USB Iceland/ARP GUNPA 1421 F310 62N10W 1504 65N20W sel/LQ-GK (SP-LPA B767). TSO321 1720 USB Baffin/Told to change to 4675 at YSR sel/EH-AC (N140AA DC-10 Transaero). JAL2624 1544 USB Iceland/ ARP 66N05W 1542 F330 7316N10W 1637 -7927N20W next.fuel 196.8. LTU1520 1349 USB Baffin/ARP YZS 1348 F350 YRT 1445 YTH. (AW2)

8894 N375PK: Seagram 2107 USB wkg Niamey, FL390. (IB) SAA241 0009 USB Algiers Niamey/ARP KIRMI 0006 F330 INISA 0041 (FRA-JNB) KLM584 0009 USB Algiers/ ARP NSL F370 To call VHF. BAW074 0009 USB Niamey/ARP APARO 0007 F370 AMTES 0034 NSL. (RD3)

8903 Seoul Aero 1929 USB wkg EAZ (?) 598.(AI) Manilia 1005 USB wkg Air Mike 845 Charlie w/posrep. (AW) TJ-CBB: CAMAIR 1640 USB wkg Kinshasa Aero. 9Q-CZS: Shabair 1807 USB wkg Kisangani. ET-AIF: Ethiopian 962 2256 USB wkg Brazzaville. TR-LCJ: VIP Government a/c 1624 USB Wkg Luanda. N998JB: BRECO Int 2126 USB wkg Luanda, FL390. ADK-096: ADC Airlines 1918 USB Clg Kano. TransAir Congo-174 1809 USB Wkg Brazzaville. FL250. TT-AAK: Air Tchad 1816 USB Wkg Brazzaville. EC-FEN: Gestair 2157 USB wkg N`Djamena. (IB) Brazzaville aero Zaire 0027 USB wkg Lufthansa 239 w/ a posn report and selcal. N'djamena aero Chad USB wkg Lufthansa 505 w/ posn report (said switching to uniform). Niamey aero Niger 0032 USB wkg Springbok 239 w/ posn report. (LVH) KLM594 2228 USB Brazza',Ndjamena/ARP TJN 2239 F350 TJR. BAW56 2230 USB Kinshasa, Brazza'/ARP TUSOX 2238 F350 VOLDA -MPK 2242 BOSSA 2258 RULDO. AZW724 2232 USB Kinshasa/ARP EDUSA 2229 F280 UGDUS 2243 MPK. TAP232 2233 USB Kinshasa/ARP UGDUS F350 MPK 0000. VIR602 2234 USB Kinshasa/ARP EDUSA

2231 F310 UGDUS 2249. SWR287 2349 USB Ndjamena/ARP IRAGA 2346 F350 KOBLA 0019 FLU. BAW54 2354 USB Kinshasa/ARP SOLPA 2349 F350 SEVIT 2353 TUSOX 2346 MPK 0054. SAA234 2355 USB Brazza'/ARP MOROS 2353 F310 CF 0007. 5X-AMM 2357 USB Kano/Ndjamena/Tunis to Brazzaville ETA 0208 EBUT 2340 MU 2353 F290 EDIMA 0006 To call 128.1. AZW723 2357 USB Ndjamena/ARP DIR 2356 F370 BUNLU 0015. AFM02 0001 USB Braz,Kinshasa/EGKK to Harare ETA 0326 MPK 0004 RULDO TUSOX 0016 SEVIT F370 SOLPA UPARA TESAL -LUB 0225 a/c DC-8 reg'n Z-WMJ. SAA260 0003 USB Brazza'/ARP CF 2356 F350 MOROS 0017 BT. KLM586 2155 USB Braz,Kano/ARP BD2201 F370 KU 2217 ACCRA to -KANO ETA 2236. SWR285 2156 USB Kinshsasa/ARP KIN 2150 F310 UP 2202 KG next. AFM01 2157 USB Kano/Req.latest KANO wx. NMB664 2211 USB Luanda/ ARP ipsok 2225 F410 BV -FIR Bdy(17.25S-16 -.327E next To call 8888. (RD3) SAA260 2157 USB Luanda/ARP ENUBI 2340 KINSHASA 2354 F310r.350 eta EDDF(0720) sel/FJCM a/c reg-ZSSAO B747. DLH575 2158 USB Kinshasa/ ARP KGI 2156 F350 VIVRO 2208 BUT 2213 -MERON 2229 ONUDA 2254. BAW56 2201 USB Kinshasa/UPARA 2218 SOLPA 2244 F350 SEVIT 2244. TAP232 2205 USB Kinshasa/? 2205 F350 Enuga 2224 Bugro 2238. SWR287 2224 USB Ndjamena/IRAGA 2221 F350 KOBLA 2254 FLU 2326. AZW724 2227 USB Kinshasa/ARP INISA 2210 F350 BO 2225 MPK 2340. SAB558 2230 USB Ndjamena /Kinshasa-Brussels via MU 2246 ENBUT -2251 F390 a/c reg FGSUN B747. CTM304 2230 USB Kano/ARP TJJ 2215 F390 MF 2226 OBUDA 2230 sel/JLCQ (FRAFL DA50). SAA201 2220 USB Luanda,Kano/Jo'burg-Sal via TERBA 2216 F390 -AMKIL 2319 RASAD a/c ZSSAY B747. AZA837 2221 USB Brazza,Kinshasa/ ARP POKOT 2221 F350 BOSSA 2238 -RULDO 2247. (RD3)

8906 GTI905 1513 USB Gander/ARP 51N40W 1511 F410 51N30W 1549 51N20W sel/ CL-JM (??) N18AN UTC? USB S.Maria/req.o/clr to KBGR via ARMED 42N20W 40N30 -39N40W 40N50W 43N60W CROSS F410 M.80 sel/BC-ER. (AW2) TAP319 1547 USB S.Maria/ARP 41N30W 1546 F330 42N40W 1655. MPH605 1846 USB S. Maria,NY/ARP 42N40W 1844 F290 37N50W 1956 29N 60W next sel/BQ-EH PH-MCT MD-11. KLM743 1401 USB Shanw'k/ARP 24N63W 2330N6326W. SAA6792 1401 USB Gander/ARP 50N30W 1400 F280 52N40W 1457 52N50W sel/FJEL (ZS-SAR B747). LIB870 1402 USB S.Maria/ARP 45N15W 1400 F310 41N20W 1440 36N30W sel/BHCG ?? ULE703 1406 USB S.Maria/ARP 42N30W 1402 F350 38N40W 1508 35N50W. GYPSY82 1408 USB S.Maria/Called for radio chk. Told this will be primary freq. COA63 1410 USB S.Maria/ARP 42N30W 1405 F330 43N40W 1501 45N50W ETA Newark 1819. (RD3) FUROR81 1955 USB NY/Req. contact w/ RHET23.a/c KC135R dest LPLA Told to call refuel freq. Alpha?? pos'n 35N60W. AFL357 2000 USB NY/ARP 41N40W 1956 F310 36N50W 2106 34N60W. N424GA 2202 USB NY/ARP 41N50W 1958 F430 41N60W 2102 HERON sel/DEKP (G4). DHL024 1720 USB Gander/ARP 49N40W 1715 F330 50N30W 1755 50N20W Fuel 57.6 ETA EGLL 2015.sel/DGCL N801DH DC8. AEL702 1534 USB Shanw'k/Rx.O.clr via 41N30W 37N40W 34N50W 32N60W -DEENO B.646 GRATX F330 M.80. Reach 112Z 1408 USB S.Maria/ARP 45N30W 1402 F290 43N20W 1457. Reach133 1409 USB Gander/ARP 52N40W 1403 F290 53N30W 1447 52N20W. Reach ODQ2 2000 USB NY/ARP 36N50W 1957 F350 36N60W 2100 CREEQ sel/EMAD N813CK CKS DC8. Reach 5018 2203 USB NY/ARP 38N60W 1959 F370 SLATN 2047 LINND sel/ASFP N755AT B757.To call 125.92. Reach 50187 2022 USB NY/ARP 37N60W 2021 F310 CREEQ 2119 (RD3)

8924 WEST INDIAN 424 2330 USB wkg BWIA Operations reporting that they're having problems getting in contact w/Piarco ATC. Ops reported that Piarco had lost complete power. WEST INDIAN 431 also up on freq trying to get to Antigua to pick up 40 stranded Lufthansa passengers (TB).

8930 N111ZT UTC? USB Stockh'm/p/p to London,req.hire car to meet a/c at Louisville.(G.4) KLM505 UTC? USB Stockh'm/private p/p to Amsterdam-to call 6875 or 7801(new freq.?) GTI120 1230 USB Stockh'm/dep.SNN 1207/20 eta JFK 1830 uplift 25990 USg payload 83.0 delay due to tire service sel/AD-FM (N3203Y B747) N603GC 1005 USB Stockh'm/ARP 56N20W 1004 F270 fuel 55.0 eta AMS -1200,to relay to SCX ops. ANA201 1038 USB Stockh'm/ ARP UHT 1036 F10600M eta LHR 1444. SAB559 1303 USB Stockh'm/ARP NAGAR 1300 F350 eta BRU 1635. DLH8165 1310 USB Stockh'm/p/p to GTI ops-on ground BRU-hole in leading edge kruger flap-ops told crew to go to hotel and call crew sked.on land-line.! AUA557 1326 USB Stockh'm/ dep. Vienna for Osaka req sel/GP-AR OELAG. PH-EXA 0910 USB Stockh'm/On test flight FK.100 selcal chk/LR-HS. KLM997 1430 USB Stockh'm/dep.DXB 1237/ 1312 eta KUL 1946 fuel -95.4 payload-72815 lbs,relay to GTI ops. N603GC 1157 USB Stockh'm/ARP 60N30W 1150 F260 eta KDTW 1712 Ops normal to relay to Gemini Cargo. KLM998 1710 USB Stockh'm/ARP KFK 1707 F350 eta AMS 2030 ,copy to GTI ops. EC-GGE 1715 USB Stockh'm/p/p to VIVA ops,

Palma. CKS817 0745 USB Stockh'm/dep.ETAR 0703/27 eta HECA 1107 fuel -
76.0 payload 41852 lbs sel/LM-BK (N817CK DC8). WOA'MAW' 2006 USB
Stockh'm/posn YAVRU 2005 F370 Fuel 29.0 ETA LTCG /2307.(9MMAW DC10).
SAA202 0800 USB Stockh'm/dep SIP 0728/45 eta JNB 1541 287+15pax dep.
fuel 264.0 uplift 33043 USgals sel/GJ-DE, N616FF B747.Copy to SAA and
Tower Air. ANA1217 0826 USB Stockh'm/posn UHT 0823 F10600m Fuel 139.3
eta Frankfurt 1235. WOA280 UTC? USB Stockholm/Relay to World Ops;
re-route via TNT -dct TLA-UB5 to GOW-UN590-BEN-UN581 to 58N10W selcal
ck GH-BS (N280WA MD11). 5XAMM 1020 USB Stockh'm/Req.selcal ck
CE-AL. Type??? SAS5092 1545 USB Stockh'm/relay to GTI-6247N20W 1543
F330 62N0L -1642 fuel 44.0. CAL346 1745 USB Stockh'm/o/h KFK 1743 F330
ETA AUH 2110 fuel56.0. TOW31 1844 USB Stockh'm/dep.TLV 1816/37 eta JFK
0546 190+5 pax dep.fuel 331.0 uplift 47767gals sel/EF-KL N620FF. ANA205
1028 USB Stockh'm/posn UHT 1025 F10600m eta CDG 1515. ANA209 1134 USB
Stockh'm/posn UHT 1132 F10600m eta FRA 1537. Reach EHF6 UTC? USB
Stockh'm/dep.ETAR 1345/1424 eta OEKH 2025 sel/FJ-BM (N21CX DC8),copy to
ATN ops. Reach 11 1900 USB Stockh'm/dep.ROTA 1825/32 eta.NORFOLK NAS
0230 dep fuel 132.0 payload 22380 sel/AK-BG (N796AL) Reach 4680 1823
USB Stockholm/Arr.OEKH 1805/20 Fuel 9.1 copy to AMT. (AW2) TTA-702:
TransAero 1849 USB Wkg Stockholm. 5X-JEF: Das Air 1437 USB wkg
Stockholm. w/radio cks. (IB) WOA271 1818 USB Stockh'm/ARP PEDPI 1805
F330 ETA Kuala Lumpur 2230 Fuel 98.4 AMT4255 1345 USB Stockh'm/Req.
sc chk/JQCH N516AT B757). BSK3033 1522 USB Stockh'm/dep.TZL 1505/15 eta
FRF 1642 51pax 28.5 Fuel sel/JLCG (N803MA B727) AFR6700 1532 USB
Stockh'm/On ground for rdo chk-Strength 5. F-GHDX 1536 USB Stockh'm/
Called briefly for rdo chk-no reply. FDX8M 1435 USB Stockh'm/Called for
selcal chk/HKGJ (N68055) SJM6212 1821 USB Stockh'm/Arr.LEVT 1418/30 fuel
47.0 dep.1600/07 -ETA ELLX 1735 Cargo nil sel/DLFG (N741SJ B747).
WOA117M UTC? USB Stockh'm/dep.EDAF 1100/10 eta KATL 2119 285 pax
payload 61590lbs sel/CM-BD (N117WA DC-10). ANA1217 0930 USB Stockh'm/
ARP UHT 0929 F10600m eta FRA 1320. COA41 1000 USB Stockh'm/p/p to COA
maintx-on dep. Rome lost autopilot & autothrottle -req.instructions ops
said re-set circuit-breakers(no luck!) eventually got autothrottle after
some 'fiddling by Capt.!!sel/DL-GM (N68060 DC-10). (RD3) CFG314 1720 USB
Stockh'm/e/r FRA to Mauritius sel/LM-BS (DABUB) VRBHM 1457 USB Stockh'm/
o/h Barcelona p/p to Company to 10856. V2LEO 1520 USB Stockh'm/Selcalled
many times-no answer (L1011). EVA678 1838 USB Stockh'm/Will call again
at 30W/2005 fuel 66.6 sel/BC-MS (N105EV MD11) TRA'HVG' 1840 USB
Stockh'm/Req pp to Transavia ops-PH-HVG B737. ECGHT 2148 USB Stockh'm,
Req pp to Futura Ops.(FUA B737). BSK296 1334 USB Stockh'm/To inform Co.
to refile plan from TZL (Tuzla) to FRF.sel/JLCG N803MA B727 Miami Air.
AEL746 1337 USB Stockh'm/o/h Madrid p/p tp Ops. AEL744 1354 USB Stockh'm
Radio & sel ck HS-JP (EI-CLS B767) CKS9752 1656 USB Stockh'm/dep.OMFJ
1600/32 eta VHHH 2310 fuel 246.0 a/c N702CK B747. CAL348 1708 USB
Stockh'm/dep.ELLX 1457/1514 eta ? 2125 fuel 91.7 sel/FLKM (N505MC B747)
copy to Atlas Air. ACF551 1630 USB Stockh'm/o/h Toulouse,Fl/t op. by
Aeropostale a/c req. p/p to Aeropostale Ops. SNB722 1901 USB Stockh'm
/o/h Madeira ETA COP 2215 copy to -Sterling Ops sel/ABDE (? B727).(RD3)
8933 SAA253 2056 USB SA Jo'burg/Called but no reply. SAA235 2150 USB SA
Jo'burg/ARP ZIBAN 2150 F330 eta JBU 0500. AFJ002 0306 USB SA J'burg/
ARP Ektou? 0254 F390 ops normal. SAA3248 0402 USB SA J'burg/ARP RIMEL
0400 F390 eta FRA 0645 ops normal. (AW2) ?992, 0049 USB wkg Cedar
Rapids, SELCAL ck JP-DG announced just dep from San Palo Brazil.
United 940 USB wkg New York Radio, SELCAL ck AR-BD not wkg QSY to
11342, not hrd. Springbok 6208 2134 USB wkg Springbok Johnesburg --
Flt level 370 w/ other ops info. Connie 708: 0146 USB wkg Cedar Rapids
Radio pp Connie Ops eta 0300Z Buenos Aires. Continental 408: 2204 USB
wkg NY Radio re SELCAL ck DL-GM on two radios. Springbok 625: 2153 USB
calling SPRINGBOK JOHNESBURG no joy. UPS BOK: 0502 2156 USB calling
Cedar Rapids Radio no joy. Springbok 234:, 271, 253, 221 2200-2208 USB
wkg SPRINGBOK JOHNESBURG re ops matters.(KW2) RHET23 2005 USB ?/Called
FUROR81 w/ new CT of 2155 ? SAA241 2258 USB SAA J'burg/ARP TAROT 2258
F330.To call 5532. (RD3)
8936 VR-BKI 2117 USB Berne/o/h IOM, pp to Millionaire Teterboro e/r Geneva
to Teterboro,ETA just after midnight, req. 2 minivans to meet a/c.
SJM6604 0915 USB Berne/dep,LEBL.0845/0900 eta FAJS 1806 payload 67676
lbs fuel 181.9 sel/DLFG (N741SJ B747). (AW2) C6-BER 1147 USB Berne, dep
GENEVA 1050 eta GANDER 1727, pp to Ops req freq for Century Avn(122.95)

& wx for St.Johns,Stephenville & Gander.a/c at F390. VR-CHA 1733 USB Berne/Called many times o/h Roma to no avail. (RD3)
8939 Varig 855 0533 USB Wkg VARIG LDOC Belem w/ARP at F310 and ETA GRU, also GRU actual wx report. (TO)
8942 NCA219 1634 USB Hong Kong/ARP DOTAS 1645 PCA 1652 ETA Bangkok -1805 Fuel 75.0. THA983 1637 USB Singapore/ARP DODRO 1636 F290 MEVAS 1648. JAL710 1637 USB Ho Chi Minh/ARP Iprop? 1630 F290 ? 1701. KAC412 1639 USB Hong Kong/ARP DANAL 1651 F350 PCA 1710. JAA222 1646 USB Manila/ARP Endim? 1703 F330 (Japan-Asia Awys). JAL624 1650 USB Singapore/ARP MAARI 1648 F330 ??next 1712. JAL718 1711 USB Hong Kong/ARP DAGON 1813 To call 127.1. JAL722 1703 USB Hong Kong/ARP DAGON F370 sel/DREG JA8581 MD11. (RD3) Singapore 833: 1400 USB wkg Hong Kong for selcal ALGH. Lufthansa 773: 1402 USB wkg Singapore posn ck.(RO)
8957 Shannon volmet, Ireland 1247 USB volmet radio w/ station id this is Shannon volmet at 1250 utc (EW)
9003 Royal Jordanian 054 2030 USB w/call to Alia Ops...no reply (TB)
9013 Aerolineas: Argentinas LDOC, ARG 0644 USB w/SS aero comms, selcals(RB)
10024 VR-BLG 0807 USB wkg "Kessler". (IB) (poss Pascua, Easter Island - which operates on the SAM-SW MWARA group of freqs (2944 4669 6649 10024 11360 17907 -LOGS).
10069 VR-BJR: Unid 1758 USB wkg Berne R. Posn: Rhodes, GRC. (IB) N721MF 1225 USB Berne/En-route BEIRUT sel/DJ-KL (B727). (RD3) AAL47 1435 USB Berne/ pp to dispatch re children on board w/a rash of spots,fl/t worried in case it was contagious. Dispatch spoke to Dr. and said if they were only on their faces it should be OK !!! PP-AJM 1519 USB Berne/o/h Napoli req.p/p to Skyjet Brussels mentioned problem w/ tail rudder (DC10). HB-IIA 1527 USB Berne/p/p to TEA,Basle sel/EPFM (HBIIA B737). (RD3)
10072 Speedbird London 1336 USB wkg unid a/c (arabic accent), passing EGLL wx (MB3)
10075 Delta 12 2057 USB wkg Houston Radio -- Selcal ck "DL-CE". N128TS, 2153 USB wkg Houston Radio -- Selcal ck "CM-EH" Grumman G1159 (2 engine Turbojet, capacity 22 passengers) a/c owned by Service Group of America. Emery Worldwide 173: 0216 USB wkg Houston Radio pp Ops/Dispatch re wx Dayton & Chicago. 572: 2227 USB wkg Houston Radio re SELCAL ck FL-DM. Continental 19: 2220 USB Houston Radio pp Dispatch re passenger flt connections. ROY 2151: 2334 USB Houston Radio pp Ops re Toronto wx & eta 1040 (p.m?)local. Delta 10: 2342 USB Houston Radio re SELCAL ck EQ-BK. TCN 6917: 2228 USB wkg Houston Radio re dep SBBE couldn't hear one another (KW2).
10286 SDJ: Stockholm rdo 1308 USB wkg KLM 741 w/private pp (MB3)
10805 N91WZ 1643 USB Stockh'm/p/p to Company eta ALICANTE in 1 HR (C501) Originally called on 11345. (RD3)
10856 VRBHM 1458 USB Stockh'm/Returning to Malaga not going to Milan due to pressurization problem-had to make an emergency descent F350 to 140.ETA LEMG 1600. (RD3)
10970 LDA6259 1257 USB Stockh'm/a/c 'RF'(OELRF) ref fl/t to Madrid.
11300 SAZ-462: Swiis Air Ambulance 1427 USB Wkg Cairo. FL330. (IB) RMV271 1300 USB IL18 YU-IMZ from Amsterdam to Sidi Barani and back to Bucarest. AFB 695 1309 USB to Abu Simbel VOR (SML), selcal BG-ES (JP2) Cairo wkg TRT 313, SML@1419 FL 370, to call on VHF 124.7. Khartoum Aero 1455 USB wkg GTY401 w/ posn report and selcall chk. (MB3)
11308 unid aero 1059 USB a/c <==> gnd communications in RR (MB3)
11309 CSY: Santa Maria 1257 USB wkg USAir 3, selcall BF-EP, req oceanic clearance. CSY: Santa Maria 1259 USB wkg Iberia 631A, req oceanic clearence (MB3) BAL179A 1423 USB NY/ARP 32N40W 1421 F370 26N50W 1550 19N60W next sel/CJ-BF (G-BOPB B767). TAP355 1422 USB NY/ARP 31N40W 1420 F310 28N45W 1459 req.F350 26N50W next sel/BM-AR (CS-TEH A310). CUB443 1726 USB NY/ARP 28N50W 1723 F350 27N60W 1825 GRANN. (RD3) New York 2100 USB Not much there but a selcal of HJ-AB. ID? New York 2105 USB wkg Martinair-61, to Barbados. (SB)
11342 San Francisco: ARinc (CEP-CC-LDOC) 2123 USB selcall'ing & clg Polar Tiger 89, no joy. (RB)
11345 BER2935 1550 USB Stockh'm/p/p to Tegel ops-total pax.151 inc. 54 transit pax,eta NURNBERG 1745. (AW2) Austrian Charter-2614 1319 USB Wkg Stockholm pos:Canarias. (IB) SDJ: Stockholm rdo 1106 USB calling YR-JCA w/out success. SDJ: Stockholm rdo 1107 USB wkg American 45, selcall chk JK-HS. SDJ: Stockholm rdo 1227 USB wkg Sun country Airways 801, selcall chk EM-BC. SDJ: Stockholm rdo 1230 USB wkg Air Europa EC-GCA,

pp to operations Mallorca. SDJ: Stockholm rdo 1236 USB wkg Delta 40A, who was over Italy @ fl 330. SDJ: Stockholm rdo 1241 USB calling SP-LPA w/out success. SDJ: Stockholm rdo 1246 USB wkg Connie 392, pp to 'Connie ops'. SDJ: Stockholm rdo 1251 USB wkg VR-CGB, selcall chk. SDJ: Stockholm Radio 1110 USB Southernair 6212, enrt LEVT-DNMN. SDJ: Stockholm Radio 1113 USB Saudia 900, pp to Evergreen dispatch. SDJ: Stockholm Radio 1204 USB Futura EC-EVE over Greece w/pp to Palma ops. SDJ: Stockholm Radio 1210 USB Futura EC-GHM on gnd Brussels, radio chk. SDJ: Stockholm Radio 1314 USB Stockholm Rdo calling Abelag 604, no reply. SDJ: Stockholm Radio 1315 USB Austrian 612, posn. St. Petersburg, clg Stockholm Rdo, no reply. SDJ Stockholm Radio 1206 USB wkg Air France 526 pp in FF. SDJ: Stockholm Radio 1232 USB wkg D-CFMB (Beech Super King Air 350 operated by the German Air Traffic Control and the Federal Army. It is used for calibrating navigation aids. The a/c has no selcall) for rdo ck. Stockholm rdo 1137 USB wkg MSR 988 w/pp to EgyptAir Cairo (MB3) AEA107 1435 USB Stockh'm/Req. selcal chk/FMLQ (???). LDA6259 1256 USB Stockh'm /Req.p/p to Ops.Told to call 10970 *. AUA555 1306 USB Stockh'm/Vienna-Tokyo req s/c chk GPAR (OELAG). FWWEU 1318 USB Stockh'm /On ground for radio ck. Reach 5018 1420 USB Stockh'm/dep.LERT 1350/ 02 ETA LPLA 1616 190 pax, Fuel 34.0 sel/JQ-CH (N516AT B757 AMT). (RD3)

11354 Falcon (Gulf Air Bahrain) wkg Falcon 5016 in a funny sounding mixture of EE and Arabic. Aeroflot Moskva 1129 USB wkg Aeroflot ??? in RR (MB3)

11384 Honolulu 0753 USB wkg Thai 121.Posrep & selcal JM-GH. (AW)

13264 Shannon Volmet, Ireland 1247 USB volmet radio w/ forecast for Santa Maria, Lisbon etc at 1239 utc. (EW)

13270 NY Volmet 1232 USB w/aviation WX for US airports (MB3)

13282 Honolulu 0625 USB Volmet wx for the area. (AW)

13304 El Al Tel-a-Viv 1237 USB passing JFK WX to ElAl? in Hebrew (MB3)

13306 Navy 674 1427 USB NY/ARP 4115N60W 1425 F250 4150N57W 1449 then to go operational. (AW2) RAIDER 02 1852 USB 42N-45w eastward (JP2) VIA731 1316 USB NY/ARP 43N40W 1315 F330 31N50W 1458 18N58W sel/CK-DH (YV-137C DC10). N400J 1335 USB NY/ARP 42N60W 1333 F410 42N50W 1429 41N40W sel/KM-BG (G.3). AFP0032 1355 USB NY/ARP 42N60W 1350 F200 41N65W 1437 Ampron? ETA ANDREWS 1715 req.F220 (Port.AF). New York: (NAT-A MWARA) 1803 USB wkg Air Italia 6584 w/posnrep, 1802 33N/40W, FL370, est 33N/50W 1913, 33N/60W next. (RB) MPH627 1311 USB NY/ARP 41N40W 1306 F350 38N50W 1412 sel/JMDS (PH-MCV B767). Reach 5F5 1537 USB NY/Rx.O.clr to NGU via SLATN PENYT LYNUS ORF F370 M.77. Reach 8V4 1537 USB NY/Rx.O.clr to NGU via SLATN PENYT LYNUS ORF F330r370 M.77. (RD3)

13342 SDJ: Stockholm rdo 1254 USB wkg Swissair 175 w/redispatch msg (MB3) BER2714 1504 USB Stockh'm/Eta Hamburg 1805.ck for onward list of pax. to see where they are going on to.

13342 VR-CMZ 1304 USB Stockh'm/Asked for latest EGGW wx.1250z. (RD3)

15094 LOCKHEED "Flight 6150" 1705 USB clg 5927 no Joy. (JJ)

=DIGITAL MODES=

Please note that ARQ is used for Sitor-A, FEC is used for Sitor-B, and both of these modes are 100/170 unless noted otherwise. RTTY is used for Baudot. This is not as a statement of correctness, but rather a space saving measure.

305 UNID: 0352 FSK 96/200 continuous FSK signal. (JS5)

518 9HD: Malta rdo 1824 FEC nav wrng's. LGB: Rogaland rdo (relay Lyngby) 1828 FEC gale wrng. PBK: Ned cg 1954 FEC nav wrng. Cabo la Nao rdo 1955 FEC nav wrng. LGQ: Rogaland rdo 1957 FEC gale wrng. Cross Ill d' Quessant 2000 FEC nav wrng. GNI: Niton rdo 2019 FEC wx. ESA: Tallin rdo 2030 FEC nav wrng. SVK: Kerkyra rdo 1740 FEC wx. SUZ: Serapeum rdo 1810 FEC nav wrng. 9HD: Malta rdo 1820 FEC nav wrng. HZH: Jeddah rdo 0100 FEC wx (not live monitored). VON: CCG St. John's 0200 FEC wx (not live monitored, time between 0200-0230). UGC: Arkhangelsk rdo 2205 FEC nav wrng id F (not live monitored). TFA: Reykjavik rdo 1918 FEC wx id R. VON: CCG Saint John's 0620 FEC gale wrng ice wrng (not live monitored). NMA: Uscg Miami 0400 FEC id A wx (not live monitored). NMR: Uscg San Juan 0600 FEC id R wx (not live monitored) VCO: CCG Sydney 0640 FEC id Q wx (not live monitored).4XO: Haifa rdo 2230 FEC wx. ESA: Tallin rdo 2030 FEC wx. Unid CCG 0555 FEC wx blown away by OST at

0600. (BvR) CA27: Murmansk rdo 2219 FEC Nav.mess. Barents Sea. KA03: Cherbourg rdo 2233 FEC Nav.mess. BA42: Bahrain rdo 0104 FEC Navarea IX (Arabian Gulf) nav. mess. OA38: NOTSHIP 0717 FEC (I need info about this station.. anyone?) Nav. mess. Newfoundland Grand Banks. QE86: 0734 FEC Environment Canada Forecast.(i need info about this station ... anyone) Nav.mess. UA15: Klaipeda rdo 2127 FEC nav.warn. 131. UA01: St Petersburg rdo 2129 FEC nav.warn 028. UA95: Tallin R. 2130 FEC nav. warn.033. PB94: Netherlands Coast Guard 2142 FEC Gale warn. ne94. GA51: 2145 FEC self Canceling (I need info about this station...). RA39: Monsanto R. 2155 FEC North Altlantic nav. mess. MA41: 2256 FEC Southern North Sea (I need info about this station..). XA57: 2256 FEC Coastal warn. 057 (info.....). 0026: Lyngby R. FEC nav.warn. 356. JA18: Stockholm R. 0030 FEC nav.warn 257. XA33: Cabo La Nao 0047 FEC Navera III 033 Test msg from NAVTEX station of Cabo La Nao Please report the reception of this msg to MRCC Valencia (I need the address of this station who helps???). AL96: 0059 FEC Mandatory ship reporting system "OUSSREP" adopted by "IMO" will enter into Force off USHANT on November 30TH 1996 at 23H00 UTC. From this date must report to "USHANT tfc"when entering the area of this "VTS" (Can anyone tell me what the force off USHANT means) (USHANT is the local name for Ile d'Ouessant FA57: Arkhangelsk R. 0257 FEC nav.warn 51 white sea area. RA31: CG Gantsec 0723 FEC BNM 493-96 West-Indies-PR-San Juan HBR. Bahia de San Juan LB2. QE61: Split rdo 0001 FEC Shipping Forecast for the Adriatic sea. HA32: Iraklion rdo 0203 FEC Nav.Warn. 108/96. LA05: Limnos rdo 0242 FEC Nav. Warn. WL89: Toulon 0439 FEC TTT Avurnav nr 624/96. XA61: 0442 FEC wx Bulletin La Nao 61. CA50: Murmansk rdo 0620 FEC Nav.Warn. 191. KE63: Kerkra rdo 0634 FEC rdo/wx Forecast. OA61: Notship 0712 FEC N2245 Nav Warn. OA60: Malta rdo 0717 FEC Nav. 3 wng 599/96. RA40: Unid 0725 FEC BRK CG Gantsec BNM508-96 West- Indies-PR-USVI. RE22: Unid 0705 FEC MIAOFFMIA TAA00 KMIA 280242 Offshore Marine Forecast National wx Service Miami Fl. 1030 PM East. Wed Nov 27 1996. (CVS) NMA: USCG Group Miami 0801 FEC w/NAVTEX msgs. NMA: USCG Miami 0832 FEC w/NAVTEX msg re: Cable Ship Global Link laying cable off of Grand Bahama Isle. unid 0500 RTTY (50/154) idles w/ZZZZZZZZZZ's. NMG: USCG New Orleans 0313 FEC w/NAVTEX msgs re: small craft advisories, wx, and navigational hazards. NMG: USCG New Orleans 1112 FEC w/NAVTEX msgs. (DW2) D: La Coruna 0032 FEC MIB Testing new TX. req reports Q: Sydney N.S 0310 FEC MIB MAYDAY relay (KH) A: Cross Corsen 0000 FEC MIB PAN relay from yacht X: La Nao 2230 FEC MIB Test of new TX. req reports. R: Monsanto 0257 FEC MIB COSPAS/SARSAT alert. Valentia rdo FEC MIB Experimental NAVTEX test. O: Portpatrick 2234 FEC MIB MAYDAY, SAR off Scotland. I: Las Palmas 0522 FEC MIB. S: Sydney N.S 0657 FEC MIB wx in FF. G: Tarifa 0103 FEC MIB. O: St.Johns 0620 FEC MIB re VON closing 500KHz CW. O: Portpatrick 2119 FEC MIB MAYDAY alert - req info re UNID 500KHz CW call G: Cullercoats 2313 FEC MIB MAYDAY alert. R: Reykjavik rdo 2318 FEC MIB wx. S: Niton 1421 FEC MIB MAYDAY alert re 121.5/243 signal. A: Cross Corsen 1934 FEC MIB wng re drifting/de-masted sailing vsl. R: Rogaland rdo 1746 FEC MIB MAYDAY/SAR info. X: La Nao 1957 FEC MIB Request for reception reports. R: Reykjavik rdo 2026 FEC MIB MAYDAY/ SAR SITREP. P: Netherlands CG 0342 FEC MIB MAYDAY RELAY re man overboard. X: La Nao (Spain) 0016 FEC MIB EPIRB alert (KH) CULLERCOATS rdo (G) 2050 FEC Evening shipping forecast and nav warnings. OOSTENDE (T) 1848 FEC Wx and nav warnings. QRM fm Monsanto (R). PORTPATRICK rdo (O) 2135 FEC Navigation warnings. PORTPATRICK (O) 0935-38 FEC Navigation warnings (DW)

1905 SAB: Goetenburg rdo 1722 ARQ sc ubvp. (BvR)

2012 UNID. 2335 COQ/13 Most of the transmission seems online encrypted. Three sections in the clear "de fc" "te tct" (possibly corrupt) and finally "ok ok moi avoir tout compris c'est super" and off air. UNID 0005 COQ/13 Twice "de fc" and then "r ar". Rest online encrypted (DW)

2209.5 NATO Mil 2250 PSK 2400bps UNID System (MC)

2293.8 DER: Moi Bonn 1746 ARQ-E 72/67 idle (no id).(BvR)

2294.5 DER: Moi Bonn 1746 ARQ-E 72/97 idle (no id).(BvR)

2295.5 DER: Moi Bonn 1744 ARQ-E 96/88 idle (no id).(BvR)

2296 DER: Moi bonn 1742 ARQ-E 96/188 idle (no id).(BvR)

2342 DHJ51: Grengel Met, D 2230 FAX 120/576 "etgx dwd10 feud98 not available". (LC)

2386 HEVHF: NGN Bonn 0856 ARQ-E "die wartungsarbeiten an der stromversorgung

sind abgeslossen".(BvR)
2387 RPVHF: NGN Bonn 0913 ARQ-E 96/97 idle acf 56. (BvR)
2387.7 SLVHF: NGN Bonn 0914 ARQ-E 96/97 acf 56.(BvR)
2423.5 SAB: Goetenburg rdo 0929 ARQ ererere sc mqoc.(BvR)
2474 PBC: DN Goeree 1822 RTTY 75bd availability
2510 Unid 1813 RTTY 75 encryption several stations ryryry.(BvR)
2548.7 Unid 0926 ARQ-E 72/155 acf 28 monitored until 09.46 no id or tfc.(BvR)
2607 FUO: FN Toulon 1843 RTTY 75 ryryryry.(BvR)
2617 Unid 1847 RTTY 50/850 1 stopbit for 8 hrs nothing but ryryryryry.(BvR)
2628 AXM31: Melbourne Meteo, AUS. 0950 FAX 120/576 wx map (EW)
2690.7 DHJ51: Grengel meteo 1924 RTTY 100 wx.(BvR)
2712 Unid: 2244 QPSK 250bps DGPS info (MC)
2716 SAB: Goetenburg rdo 0950 ARQ sc xczf erererere. (BvR)
2727 DAN: Norddeich rdo 0952 ARQ cw marker.(BvR) DAN: Norddeich Rdo, D 0608 ARQ w/sitor free signal, CW ID. (RB)
2754.7 CKN: Vancouver Meteo, CA 0959 RTTY 75/850 RY says 4252.1/4268/6456/ 12751.1 KHZ. Never hrd on this freq before. (EW) (CKN is CANFORCE, Victoria BC - Great log from South Oz)
2766 Unid 0954 Unid 216/114 acf 84. (BvR)
2768.2 PHVNI: MOI Hannover 1002 ARQ-E 96/70 acf 56 idle (no id).(BvR)
2769.2 HFVSL: NGN Saarbrucken 1005 ARQ-E 96/85 (no id) idle.(BvR)
2769.9 NGN 1007 ARQ-E 96/208 acf 56 idle "zczc 003 hfvhe ". (BvR)
2892.3 MTO: RN Rosyth 1015 RTTY 75 availability.(BvR) MGJ: Royal Navy, Faslane 0518 RTTY 75/850 availability list. (RB)
3105.9 Unid: 2126 RTTY 50/170 ends "ar ar ar ar ar ar" (MC)
3196 Prague Meteo, Czech Rep. 2232 RTTY 50/500 AAXX WX (MC)
3206.8 CSP: Portuguese Police 2247 FEC (CBRS mode) Police Reports in PP (MC)
3209.5 British Mil,??? 2129 Piccolo-12, crypto (MC)
3232 Unid: 0030 RTTY 75/850 USAF AWS synopic wx. KAWN:USAF Omaha,Neb 0137 RTTY 75/888 wx-synopic. (RT2)
3245 UCE: ARKHANGELSK rdo 1842 ARQ crew TG to UULU: TKH PAVLIN VINOGRADOV.(HOOD)
3272.9 German MOI, Duesseldorf 2244 ARQ-E 96/70 crypto lead-in "eeeeeeeeeeee" on link (HFVNW) (MC)
3278.2 Russian Mil,??? 1827 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
3278.8 CSP: Portuguese Police,??? 2052 FEC Police reports in PP headed "fm sec. tomar" (MC)
3282.5 British Mil,??? 2234 Piccolo-12, crypto (MC)
3291.5 WAFFA:: Oil Ops, Persian Gulf 2204 ARQ Daily progress reports from "dlb-1000" (MC)
3297 RPFNG: unk naval, Portugal 1955 RTTY 75/850 wkg RPSOFB (location/ frequency unk). (JD2)
3351 Unid: 1828 81-81 81/200 tfc (MC)
3365 JMJ: Tokyo rdo, Japan 1043 FAX 120/576 wx map (EW)
3448.7 Unid: 2230 PACTOR 100/200 7Plus coded data (CWCASBUA.7PL) (MC)
3472.7 Unid: 1834 PACTOR 200/200 tfc (MC)
3542.7 GKE1: PORTISHEAD rdo 2130 FEC N Atlantic Wx forecast. GKE1: PORTISHEAD rdo 0934 FEC N Atlantic wx (DW)
3560 Unid: 1930 RTTY 50/850 sending Arabic text, w/ a ZCZC preamble and NNNN ending(CK) YKW1: SANA DAMASCUS 1850 RTTY 50/850 Press in ee. Poor copy (DW)
3667.2 Tunisian/Egyptian Air Defense 2100 ARQ-E 46.2 tfc til 0300 (ANEE)
3693.3 RFLI: French Forces, Fort de France, Martinique 0638 ARQ-E3 192/135 (presumed), idling, should be C.I. IGE. (RB)
3693.6 RFLIGE: French Navy Cayenne French Guiana. 0441 ARQ-E 192/160. Relaying tfc for RFLIGCS. (PS)
3745 HZN: Jeddah Meteo, ARS 1953 RTTY 100/850 AAXX WX (MC) HZN: Jeddah Meteo 0140 RTTY 100/776 synoptic wx (RT2)
3756.7 RFLI: French Forces, Fort de France, Martinique 0640 ARQ-E3 192/313 (presumed), idling, should be C.I. IRA. (RB)
3822.9 Russian PTT,??? 1917 OQPSK 1280bps UNID System, Paired w/ 3827 9kHz(MC)
3827.1 Russian PTT,??? 1918 OQPSK 1280bps UNID System, Paired w/ 3822.93kHz(MC)
3830 UNHCR, Zagreb 2120 ARQ Press reports in EE ends "de zag cu tmrw" (MC)
3832.7 FF Paris 2346 ARQ-M2 200 Paris to Sarajevo, can be hrd w/ ARQ-M2 200 using the very unusual 8 character repetition cycle. Normally the

French forces use 4 character rep. cycles. The 8 char. system peaks at 112 bit instead of the usual 56 bit cycle on the 4-CRC systems. (LD2)
3849.7 ETD3: Addis Ababa Air, Ethiopia 2208 RTTY 50/200 "ryryryryr de etd3 de etd3 de etd3 req qrk imi?" (MC)
3899 Russian Navy 2000 81-81 73.1 tfc til 2030 (ANEE)
3901.5 Unid: 0809 HF-Datalink System, Regular sync bursts (MC)
3907.2 Russian Mil,??? 1853 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
4017 Polish MFA UTC? POL-ARQ 100 w/Embassy Stockholm (AMBASADA SZTOKHOLM). They tried to convince the embassy that they should use Word 6.0 for Windows. (JJ2)
4017.2 Russian Mil,??? 1732 MS5 12 tone vocoder (3300Hz pilot), idle (MC)
4037.2 German Forces,??? 2203 VFT: 3ch of 192/170 FEC-100, crypto ends "%%%%%" (MC)
4037.9 German Forces,??? 2204 VFT: 3ch of 192/170 FEC-100, crypto ends "%%%%%" (MC)
4038.6 German Forces,??? 2204 VFT: 3ch of 192/170 FEC-100, crypto ends "%%%%%" (MC)
4042 Unid: 2143 ARQ Chatter in Italian selcal "VFIM" (MC)
4058.5 NATO Mil,??? 1922 PSK 2400bps UNID PSK System (MC)
4173 GBBZ: MV BALTIC EAGLE 0833 ARQ "can you find me some good wx ?". Selcal is 46405. (HOOD)
4177 YLBD: TK FRIDRIHS CANDERS 0826 ARQ crew TGs to YLQ.(HOOD)
4179 UGSZ: TK KOMMANDARM FEDKO 1910 ARQ admin from Km Charkhalashvili via GKQ. IBEE: MT ECO EUROPA 0828 ARQ rptng arrival Trieste pilots to IAR. (HOOD)
4180.5 P3VN5: Unid mv 0834 ARQ opr+? co/ch Ost. (BvR)
4202.5 UZUY: TKH TAMANSKIY 1924 RTTY 50/170 msg in EE to Istanbul via URL.(HOOD)
4203 UROH: TKH GEORGIY AGAFONOV 1917 RTTY 50/170 admin from Km Kornev to USO5.(HOOD)
4210.5 IAR: ROME rdo 1927 ARQ tfc for UETV: TKH SOCOFL TRADE, Selcal 55954. (HOOD) WNU: Slidell rdo LA US 1412 ARQ idler and CW cal (LVH)
4211 GKE2: PORTISHEAD rdo 2133 FEC N Atlantic Wx forecast. GKE2: PORTISHEAD rdo 0933 FEC N Atlantic Wx (DW) KWB: ?? Not Sure ARQ w/CW Marker. ZLA: ?? Not Sure ARQ w/CW Marker. (MS5)(Globe wireless Awanui New Zealand - LOGS)
4212 XSQ7: Guangzhou Radio PRC ARQ w/CW Marker. LSD836: Argentina Radio Argentina ARQ w/CW Marker (MS5)
4213 WLO: Mobile rdo AL US 1409 ARQ idler and CW call (LVH) LGW3: ROGALAND rdo 0821 ARQ free idles and CW Marker "LGB tlx".(DW) 4213 VIP: Perth Radio, AUS. 1050 ARQ w/CW cw marker (EW) VIP: Perth Radio AUS ARQ w/cw Marker. (MS5)
4213.5 NOJ: USCG Kodiak AK US 1408 ARQ idler and CW call (LVH) NOJ: USCG Kodiak AK ARQ w/CW Marker. NOJ: Kodiak Radio AK ARQ w/CW Marker (MS5)
4214 KLB: Seattle rdo WA US 1407 ARQ idler and CW call (LVH) KLB: Seattle Radio WA ARQ w/CW Marker (MS5)
4215 WLO: Mobile rdo AL US 1406 ARQ idler and CW call (LVH) WLO: MOBILE rdo 0824 CW Marker "WLO" and tuning burst (DW)
4216 KPH: San Francisco rdo CA US 1404 ARQ idler and CW call (LVH) KPH: San Francisco Radio ARQ/CW Marker (MS5)
4216.5 WCC: Chatham rdo MA US 1403 ARQ idler and CW call onlyID (LVH) WCC: Chatham Radio MA ARQ w/CW Marker (MS5)
4217 VCT: ???? Not listed in CFL?? ARQ w/CW Marker (Globe Wireless's Grand Banks Radio, Tors Cove Nfdld - LOGS) WLO: Mobile Radio AL ARQ w/CW Marker. (MS5)
4218 WLO: Mobile rdo AL US 1401. ARQ idler and CW cal (LVH) LPD: Gen. Pacheco Radio Argentina ARQ w/CW Marker (MS5)
4220.3 GYU: RN GIBRALTAR 2241 VFT on usb (DW)
4220.9 GYU: RN GIBRALTAR 2241 VFT RTTY 75/200 CARB. Chan 1 in VFT. "08a 12a GYU" (DW)
4221.4 GYU: RN GIBRALTAR 2245 VFT RTTY 75/85 4221.405. Chan 2 in vft. Idle on mark. Every two minutes burst of online encryption entry 64 reversals and vmgtcnj (DW)
4222 GYU: RN GIBRALTAR 2313 VFT 4222.085. Chan 3 in vft. Mark tone keying but space tone missing (DW)
4222.8 GYU: RN GIBRALTAR 2309-12 VFT 75/850 4222.855. Chan 4 in vft. Online encrypted. Continuous. No app ACF (DW)
4227 IGJ42: IN AUGUSTA 2336 RTTY 100/850 CARB. "IGJ41/42/43/IDR2/3/4/8"

CARB lines separated w/ IDR8 until qso w/ ship (Q) finished. Then "/IDR8 o /" appears in CARBline for a while. Opr busy w/ rcvd tfc fm last ship? (DW)
4232 FUF: French Naval Fort de France Martinique RTTY 75 baud test msg (LVH) FUF: FN Fort de France 0203 RTTY 75/806 (RT2)
4268 CKN: Vancouver Meteo, CA 0957 RTTY 75/850 RY then wx map at 1001 (EW)
4270 CHF: CF HALIFAX 2231 RTTY 75/600 Met tfc inc forecast for Halifax Harbour (DW)
4271 FUJ: Noumea rdo, New Caledonia 1043 RTTY 75/850 RY line count (EW) CFH: Halifax Metoc, NS, 0000 FAX 120/576 "ice analysis/analysis des glaces" environment canada product of Davis Strait - nice line in ice. CFH: Canforce Halifax NS Canada 0752 FAX 120/576 chart (LVH) CFH: Canadian Forces Meteo Center 0255 RTTY 75/557 RY/freqs 4.271/10.536/ 13.510/122.5 khz. (RT2)
4280.8 Unid: 1047 UNID 100/850 cannot decode (EW)
4295 HWN: FN Paris,France 0221 RTTY 75/826 RY (RT2)
4300.5 KEJ: Hoolehua rdo HI US 1344 ARQ idler and CW call (LVH)
4306 SPB: SZCZECIN rdo, POL 2307 ARQ free idles and CW Marker "de SPB". (listed as SPE21 WT svc) (DW)
4316 JCC: Tokyo rdo, Japan 1046 FAX 60/288 Japanese text (EW)
4317 NMG: 2349 FAX sending wx fax charts. NMG: 1235 FAX sending surface chart (DW3)
4346 NMC: 1149 FAX sending sst charts (DW3)
4381.3 Unid: Egyptian Embassy? 0128 ARQ 100/425 w/ATU-80 tfc, weak. (RB)
4472.9 Russian PTT,??? 2259 OQPSK 1280bps UNID System, Paired w/ 4477 8kHz (MC)
4477.1 Russian PTT,??? 2300 OQPSK 1280bps UNID System, Paired w/ 4472.92kHz (MC)
4522.5 NATO Mil,??? 1913 ANDVT, tfc (MC)
4524.5 prob SUU36: Cairo Meteo 0537 FAX (120/576) unid chart w/heavy QRM.(DW2)
4583 DDK2: German Wetterdienst Quickborn 1204 RTTY 50/449 ry's cq de ddk2 ddh7 ddk8 freq. 4583 7646 11638 kHz wx forecast in GG from Seewetterdienst Hamburg. (PB) DDK2: HAMBURG MET 2106 RTTY 50/400 Met tfc. DDK2: HAMBURG MET 0857 RTTY 50/400 Met tfc in GG (DW)
4610 GFA: Bracknell Meteo UK 0826 FAX 120/576 wx chart (LVH)
4855 KAWN: USAF AWS 0323 FAX 120/576. All strong signals in NYC. //7398, 7870// (DA) unid: USAF Roosevelt Roads ?? 0700 FAX 120/576 w/wx chart. Very strong signal!! (DW2) NPM: Pearl Harbour rdo, Hawaii 1056 FAX 120/576 wx map (EW) NPM: USN Pearl Harbor HI US 0833 FAX 120/576 wx chart (LVH)
4874 RFFEDFA?: 0655 ARQ-E 72/346 idling. (RB)
4892 Unid: prob Italian Airforce RTTY 50, 4S45 w/Y17O + NW5Q //4937//.(JJ2)
4903 DHM44: Grengel Meteo 1129 RTTY 100/500 synops metar taf, msg no.: zczc 409, see 4922.5 at the same time. (PB)
4922.5 Grengel Meteo? 1129 RTTY 100/500 synops metar taf, msg no.: zczc 451 same kind of broadcast as 4903 kHz but not //, freq. not listed. (PB)
4966.5 NDT: USN Yokosuka, Japan 0702 FAX (120/576) w/wx chart.Good signal w/ light fading. (DW2)
4968.4 7NSD: unid Hungarian Station 1000 RTTY 50, "DE 7NSD RYRY". (JJ2)
5005.3 Unid: 0801 ARQ Chat in coll. EE notes Honduras, selcal "TVXS" (MC)
5006 Unid 1826 Unid mode 50/220. Unid 1837 ARQ Unid mgs.(BvR)
5018.5 Unid 1755 RTTY 50/190 cont ryryryry stop.(BvR)
5027.7 Egyptian MFA, Cairo 2026 ARQ Calling Embassy Rome, selcal "XBVP" (MC)
5082 Unid 0105 ARQ-E3 192/352 partial decode Naval Gunfire .Vieques Island P.R. in ee no location. (RT2) (prob RFLI on 5082.3)
5082.3 RFLI: FF Fort de France 0644 ARQ-E3 (192/364). Copied msg heading prior to losing synch.(DW2) RFLI: 0323 ARQ-E3 192/363 idle (c/i IRT) (SS)
5100 AXM32: Melbourne Meteo, AUS. 0940 FAX 120/576 wx map (EW)
5102 Unid: GXQ, RN London? 0659 VFT (RB)
5106.7 Egyptian MFA, Cairo 2036 ARQ ATU-80 MSGs to many EU & AF embassies(MC)
5117.6 AAA0USA: unid MARS 0140 PACKET 300/170 wkg AAAM8RC w/ chatter. Passed address as MN MTS APO AP 96224, w/ several ref's to this zip code (96224). (DW2)
5118.6 Unid: 0433 PACKET 300 baud /unkn/ was only able to copy at0tid*>mail MAIL FOR: ALLWAM /endit/ Probable MARS mailbox. (DT2)
5121 RFFHCA: FF Ajaccio 1928 ARQ-E 192 idle (no id).(BvR)
5125 Unid: 1643 UNID 250/170 UNID ARQ System (MC)

5126.5 Unid: 2029 UNID 100/170 FSK UNID System, sync, cont, ACF=0 (MC)
5134 Unid 1155 ARQ-E 72/432 idling. (PB)
5164 Unid: 1645 PACTOR-2 200/200 tfc (MC)
5169 Unid: 1625 Unid mode like Sitor A, 200/196. (BvR)
5194.6 Unid: 2032 UNID 250/170 UNID ARQ System, ACF=75 or 150 (MC)
5205 Unid: 1854 ARQ Unid mgs.(BvR)
5207.1 AT3TFC: US Army MARS,??? 2114 PACKET 300/200 UI frames to "MAIL" and "ID" (MC)
5221 RFFGCFA**: FF Trois Laval 1724 ARQ-E 72/400 MSGs in FF "fm detecoltrans trois laval" (MC)
5227 Unid: 1846 RTTY 50/960 cont ryryryry stop. (BvR)
5240 YZI213:TANJUG BELGRADE 2046 RTTY 50/500 170hz high. Press in EE (DW)
5261.6 prob NPN: USCG Guam 0844 FAX 120/576 w/wx chart, moderate fading (DW2)
5262 NPN: APRA Harbour Meteo, Guam 1105 FAX 120/576 wx map (EW)
5265.2 DER: GSP (Federal Border Police), Bonn 1049 ARQ-E 72/85 channel 5 w/ encrypted tfc. (PB)
5301 German/Italian/Turk Diplo 2205 RS-ARQ 240.1bd tfc (MC)
5325 prob RCW75: Alma Ata Meteo 0210 FAX 60/576 w/ wx chart. Heavy QRM prevented confirmation of id. (DW2)
5343.5 unid 0218 ARQ Ship ops report, odd freq. for maritime (ED)
5345.4 Unid: 0951 UNID 75/850 cannot decode (EW)
5363.5 NATO Mil,??? 1941 PSK 2400bps UNID System (MC)
5392 Unid: 1942 81-81 81/250 tfc (MC)
5397.7 RFFP: MOD Paris 1935 ARQ-M2 200 idle (no id).(BvR) prob MOD Paris 0258 ARQ-M2 (200/340) w/ idles (DW2) RFFP: MoD Paris, F 0716 ARQ-M2 200/342 w/Ch.A/B idle, later w/Controle de Voie on Ch.A. (RB)
5400 YOG37: Bucharest Meteo, ROU 0719 RTTY 50/400 w/conclusion of AAXX wx b/cast to tone. (RB)
5405 JMJ2: Tokyo Meteo 0856 FAX 120/576 w/good quality wx chart(DW2) JMJ2: Tokyo Meteo 1245 FAX too weak to get good chart (DW3) JMJ2: Tokyo Meteo, Japan 1107 FAX 120/576 wx map (EW)
5413.1 Unid: 0420 Unid RTTY (IRA?) 110/160.(DW2) Unid: 0739 Unid 110/167 w/unid mode, sounds same as other unid 110 baud modes. (RB)
5414.1 Unid 1408 UNID-MODE 200/430. Unable to id w/ C3-Gold (DW2)
5425 unid: MFA Bucharest??? 0617 ROU-FEC (164.35/289). Baud rate cked several times, but unable to synch up to signal due to lack of signal strength. Down at 0623 (DW2)
5430 Unid: 0812 ARQ-E 192/400 idling (DG)
5457 Unid: 1648 ARQ-E 72/200 c/i UFA (DG)
5457.7 Russian Mil,??? 0734 UNID 200/500 UNID System, sync, cont, ACF=0 (MC)
5494 Unid: 1913 RTTY 50/960 cont ryryryry stop. (BvR)
5495 Unid: 2125 UNID 50/1000 UNID System, idle on reversals (MC)
5591.7 OM3UN PACKET 300 w/OM3ASR (later 5548.7) this is the Czech UNPROFOR/ IFOR link. (JJ2)
5602.2 Russian Mil,??? 1904 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
5661 L2S8 RTTY 50, Coded tfc w/Ljubljana?. (JJ2)
5725.9 Unid: 2257 RTTY 50/400 AAXX WX for Romanian land stations (MC)
5731 YRR4: Bucharest Meteo, ROU 2105 RTTY 50/425 AAXX meteo reports. (RB)
5739.5 Unid: 0220 AUTOSPEC? 103.24/380 Code 3 Gold id'd and synched as AUTOSPEC 50. No tfc noted except r's. (DW2)
5739.6 UNID: 0225 unid mode 98/380 idles. Slight chugging sound to signal. Had similar signal on 5739.5. cudn't get synch w/ any mode. (DW2)
5744 Unid: 0305 PICCOLO/CIS Multitone. 6 tone system. Code 3 Gold alternately id'd as Piccolo (20bd) and Russian multitone (40bd). (DW2)
5755 AXI32: Darwin Meteo 1053 FAX (120/576) w/wx chart. (DW2)
5794 German/Italian/TurkDiplo 1705 RS-ARQ 240.1bd tfc (MC)
5796 Tunisian MOI, Monastir 1547 RTTY 50/170 ATU-80 MSGs passport details end "kfkfkf" as 3331kHz (MC)
5807 ZKLF: Auckland Meteo 1427 FAX 120/576 w/wx chart.(DW2) ZKLF: Auckland Meteo, New Zealand 1109 FAX 120/576 wx map (EW)
5828 unid 1212 RTTY 500/75 Bulgarian Nx agency - Nx bulgarian (CK) (more likely MFA Sofia w/diplo nx summary - LOGS)
5857.5 HLL8: Seoul Meteo 1057 FAX (120/576) w/"No Report" fax.(DW2) HLL8: Seoul Meteo, South Korea 1111 FAX 120/576 wx map (EW)
5859 DDF516: unk Germany 1125 RTTY 50/170 callsign & RY's only. (JD2)
5879.7 Unid 0812 ARQ-E3 192/396 idling (RFFA Paris?) (PB)
5905.5 Unid 0430 RTTY 75/850 AERO WX originating from 'KAWN'Carswell AFB NM terminal wx (DT2)

5938 Unid 1145 ARQ-E 192/383 idling. (PB)
6214.5 SAB3O1: Goteborg rdo 0848 ARQ selcal KUFX (PB)
6235.5 Unid: 0732 PACTOR no synch on weak signal. (RB)
6237.7 SMZP: Mv Birdie 1745 ARQ tlx tfc.(BvR)
6243 Unid 1800 Unid mode 81/140.(BvR) (prob 81-81 - LOGS)
6263 9HLY3: M/V LEVANTES 0634 ARQ W/tlx. Login 26001 LEVANT. LXDN: M/V CRYSTAL PIONEER 1805 ARQ W/tlx. Login 29409 LXDN (WT)
6263.5 LAIJ2: M/V DYVI BALTIC 0720 ARQ RX only, Login 26900 LIAK2 (WT)
6265.5 C6KJ5: M/V Bernardo Quintana 0623 ARQ 60,573 DWT bulk carrier, w/BBXX wx obs. (RB)
6269 SZMV: M/V PARASKEVI M. Y. 1740 ARQ ckin, QRU. Login 16715 SZME.(WT)
6270 D4BG: M/V VILMA 0110 ARQ W/tlx re 11 stowaways. Login 70136 VILMA.(WT)
6271 C6RT: MV Celtic Sea 1753 ARQ status report ship 70057. (BvR) ELQT6: MV SWIECE NO 10 0811 ARQ eta for Bilbao. login 24530 ELQT6.(HOOD) V2LY: AIVIK 0200 ARQ W/tlx. Missed login. (WT)
6273 UNID: M/V QUEEN 0425 ARQ W/dirtlx. 1822N 06319W. Selcall 36556. (WT)
6281 WMGL: Tyson Lykes 1420 ARQ tlx re revised ETA Houston. (AB2)
6282.5 ELRL9: M/V Bornes 2357 ARQ 88,950 DWT Liberian-flagged oil tanker w/ ships status report via CUL after sending selcall KPCV (3560 for CUL, Lisbon rdo, Portugal). (RB)
6288 Unid 0844 RTTY 100R/850 encrypted tfc (IGJ43?) (PB)
6305 3FGV2: SS SEABREEZE I 0110 FEC W/msg re two pax missing in Cozumel.(WT)
6312 GMDSS CHANNEL 0824 GMDSS 100/170 Nr of packets inc one distress relay from unid (uscg?) coaststation MMSI o 99995 (DW)
6314.5 SAB3O1: Goeteborg rdo Sweden 2236 ARQ w/ idler then ship msg tfc (LVH)
6315 GKE3: Portishead rdo UK 2233 ARQ w/ idler and callsign only CW marker. ZLA: Awaura rdo New Zealand 1320 ARQ w/ idler and callsign only CW marker (LVH) GKE3: PORTISHEAD rdo 2134 FEC N Atlantic wx forecast. GKE3: PORTISHEAD rdo 0931 FEC N Atlantic Wx (DW)
6315.5 USU: Mariupol rdo Ukraine 2234 ARQ w/ idler and callsign only CW marker. KFS: Palo Alto rdo CA US 1317 ARQ w/ idler and callsign only CW marker (LVH)
6317 WLO: Mobile rdo AL US 1710 ARQ w/ idle and callsign only CW mkr(LVH) WLO: MOBILE rdo 0829 CW Marker "WLO" and tuning burst (DW)
6318 IDR3: IN ROME 0617 RTTY 75/850 availability bdct (DG) KLB: Seattle rdo WA US 2226 ARQ w/ idler and callsign only CW marker weak.(LVH) IDR3: Italian Navy Rome 1345 RTTY 75R/850 CARB availability "igj41/igj42/ igj43/idr2/idr3/idr4/idr5" QRM from LGB Rogaland rdo w/CW-marker and ARQ mode. (PB)
6319 WLO: Mobile rdo AL US 1710. ARQ w/ idle & callsign only CW mkr(LVH) WLO: MOBILE rdo 0830 ARQ End qso w/ unid ship. Marker "WLO" and free idles. (DW)
6320 DAN: Norddeich rdo Germany 2222 ARQ w/ idler and callsign only CW marker. KPH: San Francisco rdo CA US 1313 ARQ w/ idler and callsign only CW marker (LVH)
6320.5 FFT: St. Lys rdo France 2220 ARQ w/ idler and callsign only CW mkr. 9VG: Singapore rdo Singapore 1313 ARQ w/ idler and callsign only CW marker (LVH)
6322 OST: Oostende rdo Belgium 2217 ARQ w/ idler and callsign only CW marker weak.(LVH)
6323.5 NMC: USCG San Francisco CA US 1309 ARQ w/ idler and callsign only CW marker (LVH)
6324 WCC: Chatham rdo MA US 2211 ARQ w/ idler and callsign only CW marker (LVH)
6324.5 KPH: San Francisco rdo CA US 2210 ARQ w/ idler and callsign only CW marker weak(LVH)
6325.5 WLO: MOBILE rdo) 0836 ARQ free idles and CW Marker "WLO". (DW) WLO: Mobile rdo AL US 1708 ARQ w/ idler and callsign only CW marker (LVH)
6326 KEJ: Hoolehua rdo HI US 1307 ARQ w/ idler and callsign only CW marker (LVH)
6326.5 USU: Mariupol rdo Ukraine 2207 ARQ w/ idler and callsign only CW marker (LVH)
6327 WNU: Slidell rdo LA US 1707 ARQ w/ idler and callsign only CW marker (LVH)
6327.5 WLO: 0448 ARQ sending wx advisory to callsign C6IP3(DT2)
6329 WNU: 1731 ARQ Night Desk Will Be Manned 1-813-27X-Xxx Capt Rj Meiczinger Tampa Lyjes Genevieve Installing Marinesat Equip Weekly

Expense Rpts @ Other Msgs. (RT2) WNU: 0459 FEC w/tfc list (DT2)
6329.5 VCT: CCG Tors Cove NF Canada 2202 ARQ w/ idler and callsign only CW marker (LVH)
6330 LZW34: Varna rdo Bulgaria 2201 ARQ w/ idler and DE CW marker (LVH)
6358.5 PBC36: Dutch Navy Goeree 0919 RTTY 75R/850 CARB availability (PB)
6371 GYU: Royal Navy Gibraltar 0441 RTTY w/ 75 baud RY test tape (LVH)
6385 FUO: FN Toulon 0935 RTTY 75R/850 testtape vvv ry (PB)
6388 EBA: SN MADRID 1000 RTTY 75/170 Marker "cq de EBA NAVAREA three NAVAREA tres" EBA: SN MADRID 1704 RTTY 75/170 Marker. Keyed very slowly as if by hand or tape reader giving problem. Then gets underway ok. Nav warnings in EE (DW)
6453 NPG: USN San Francisco rdo CA US 2306 FAX w/ wx chart heavy QRM from RTTY station (LVH)
6454.6 Unid: 2310 RTTY encrypted (LVH)
6456 CKN: 0051 RTTY sending wx. broadcast from BC Canada. CKN: 0104 FAX sending wx. fax chart(DW3) CKN: Vancouver Meteo, CA 0955 RTTY 75/850 RY then wx map at 1001 (EW) CKN: CF Victoria B.C. 1430 RTTY clear text EE WX + synoptic very good signal at 1502 hffax quality poor. (RT2)
6460 SAB33: Goeteborg rdo Sweden 2311 ARQ w/ idler (LVH) SAB33: Goeteborg rdo, S 0747 ARQ concluding maritex tlx to unid vsl of 1.2 mins; sending selcall CYEK (26733 for 9HMH4, M/T Chavchavadze); YPIY (27557 for M/T Ariel P3BQ5); and YFUK (27823 unid). (RB)
6462 FUM: French Naval Papeete Tahiti 1204 RTTY baud RY test tape (LVH) FUM: FN PAPEETE 0620 RTTY 75/850 W/test msg. (WT)
6483 PBB: DN Den Helder 1154 RTTY 75/850 availability bdct (DG)
6496.4 CFH: Canadian Forces Halifax 0500 RTTY 75/650 W/wx tfc. (WT) CFH: CF HALIFAX 2236 RTTY 75/600 100hz low. Met tfc (DW). CFH: Halifax Meteo, CA 1112 FAX 120/576 wx map (EW) CFH: Canforce Halifax NS Canada 1148 RTTY w/ 75 baud wx terminal reports (LVH)
6642.7 RFLIGE: French Navy Cayenne French Guiana. 0002 ARQ-E 192/136. CdeV.(PS)
6678.6 Unid 1005 PACKET 300 French calls, FRA1NG, FB3GO; pirates?? (PB)
6702.5 Unid: 1946 UNID 75/850 UNID FSK System, sync, cont ACF=0 (MC)
6708 NATO Mil,??? 1948 Link-11 idle (MC)
6765 unid Canada 0002 ARQ Canadian maritime freight line, delivering to distant Quebec coast and islands.(ED)
6773 AFA4PC: Unid MARS 1603 PACKET 300/170 wkg AFA4IE (unid) and AFA4UF (unid) w/ calls and short chatter. (DW2) AGA5MC: Air Force Mars msg Center 0539 PACKET 300/170 Wkg AFA6FN and AGA6TR. (WT)
6773.9 Unid: 0507 ARQ-E3 192 Baud 1:8 ^^^ (that's what the pk232 & PCPAKRATT sed.it never came off of STANDBY to PHASING (Prob RFLI Fort de France - LOGS) (DT2)
6774.9 Russian PTT,??? 2058 OQPSK 1280bps UNID System, Paired w/6779 8kHz(MC)
6776.3 unid 1111 ARQ-TD2 128.5/85 idle.(ED)
6786 Russian Navy,??? 1812 36-50 50/200 tfc (MC)
6788.7 MKK: RAF-London RTTY 50bd, foxes. (JJ2)
6797.8 Unid 1035 ARQ selcal QEMP (MFA Cairo), EGY Emb.?? (PB)
6810 Russian Diplo,??? 1608 CROWD-36 tfc (MC)
6819 unid 1703 Russian multitone (according to Code-3). (MB3)
6834 Unid: 2315 ARQ-E 184/400 idling (DG) (prob RFFXL: FF Naqoura, Lebanon - LOGS) RFFXL: FF Naqoura, Lebanon 2005 ARQ-E 184.6 bd circuit XZL to France. (JD2) Unid: 2200 ARQ-E 185/400 idling (ML2) (ARQ-E3 logged here at 184.6bd by ANEE - LOGS)
6850 RFFE: FA, location Compiegne??, F 1104 ARQ-E 184.6/391 from RFFEDFA to RFFEDFB "fm corps trois anihaut compiegne *** corps trois anibas thionville", exercise msgs. (PB)
6878.2 Russian Mil,??? 2056 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
6881 NNN0MDR: Navy MARS HF Mailbox 1819 PACTOR 200/170 w/MARSAGRAMS being downloaded. (RB)
6885 Unid: 1819 Unid mode 200/516.(BvR)
6887.4 AAA3USA: USA Mars Ft Meade, MD 0515 PACKET wkg AAT3TFC: USA Mars, Ft Richie, MD. (DW2)
6916.3 UNID 0005 ARQ 200hz tfc in EE re oil drilling. "key bermuda" mentioned. Single frequency operations (DW)
6918.5 ECA7: Madrid Met, ESP 0145 FAX 120/576 most of "CHART FOR FL 100".(LC) ECA7: Madrid Meteo Spain 0100 FAX 120/576 w/ a pressure wx chart for Europe (LVH) ECA7: Madrid rdo 0530 FAX (120/576) w/ wx chart. (DW2)
6927.5 GYU: Gibraltar 0111 PICCOLO Mk-6 op msg.(ED)

6929 Unid 1129 ARQ-E 192/217 idling (PB)
6936.7 RFLI: French Forces, Fort de France 0806 ARQ-E3 192/400 w/Controle de Voie on c.i. LIJ. (RB)
6946.5 MKK: London 1017 PICCOLO Mk-6 op msgs.(ED)
6950 prob: RJK78: Kiev rdo 0820 FAX (60/576) w/very faint wx chart. Moderate QRN. (DW2)
6955 "RFFXCCS" Favieres, France 1041 ARQ-E 72/400 C. I. ="CXX."(ED)
6961.9 Norwegian E, St.Petersburg 0700 TWINPLEX 100/400 Operator chat to MFA Oslo, selcal "KFMB" (MC)
6962.2 Unid: 1129 FEC-A 192 Unid encrypted 1137 s/off after %%%%%%%%%%%%%. Unid: 1550 FEC-A 192 Unid encryption 1551 s/off after %%%%%%%%%%%%%%%%%%%.(BvR)
6963.9 poss FF CAYENNE, French Guiana 0255 ARQ-E 192/140 w/idles.(DW2)
6972 YOG59: Rompress 1815 RTTY 50 nx EE. (BvR) ROMPRES BUCHAREST (YOG59) 1800 RTTY 50/500 Marker "yr's 1a's qra de YOG59 - frequency 6.972 kcs /rompres/ -bucharest". Note re 3/Nov and presidential/parliamentary elections in Romania ROMPRES operating workday schedules (DW)
6980.2 Russian Mil,??? 2052 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
6997.5 AA3USA: USAF MARS, Fort Meade 2219 PACKET 300/200 MSGs to "AR4USD". AR4USD: USAF MARS, Colombia 2220 PACKET 300/200 MSGs to "AA3USA" (MC)
7305 JMH2: Tokyo Meteo 0633 FAX (120/576) w/wx chart. (DW2) JMH2: Tokyo Meteo, Japan 1113 FAX 120/576 wx map (EW) JMH: Tokyo Meteo 0530 FAX 120/576 W/Pacific Surface Analysis Polar Projection (Good). (WT)
7309.7 RFLIG: FF Cayenne, French Guiana 0912 ARQ-E3 100/400 idle (EW)
7319 SUU: Cairo Meteo, Egypt 0852 RTTY 100/850 AAXX and TTAA WX (MC)
7398 Unid: Roosevelt Roads?? 0823 FAX 120/576 w/wx chart. Great copy w/ no id's passed. (DW2) US Air Force 0942 FAX 120/576 wx map unknown location (EW) NHF or UNID: USN Roosevelt Roads, PTR or UNID, Florida??, 0100 FAX 120/576 (QAUA00) NOAA logo + "US DEPARTMENT OF COMMERCE, NMC ..... WASHINGTON 2335Z TUE 19 NOV 1996 RADAR SUMMARY S023" (LC)
7405 ATP57: Delhi Meteo, IND 2340 FAX 120/576 chart Ind. Ocean, text partly readable: "...TROPO MAX WINDS... RAFC/RMC (?) NEW DELHI...", listed frequency is 7403 (see Marius Rensen's HFFAX homepage). Also hrd in August 1996 on approx. 7405.6 kHz.(KB)
7423 5YE: 0401 RTTY 50/425 Nairobi Air Kenya.Test slip (MS4)
7456.7 RFTJ: Dakar, SENEGAL 1810 ARQ-E3 192bd C.I. AFL, to France. (JD2)
7456.8 MKD: RAF Akrotiri, Cyprus 1725 VFT B7B unkeyed VFT both sidebands; wkg MKK, Bampton, UK.(JD2)
7461 5YE: Nairobi Meteo Kenya 0053 RTTY 100 baud w/ RY test tape (LVH)
7484 SNN299: MFA Warsaw, POL 0816 POL-ARQ 100/285 (assumed) weak, poor synch ability, little text. (RB)
7510 HZN: Jeddah Meteo 1639 RTTY 100/850 wx tfc (DG)
7516.5 unid 0104 ARQ 100/400 wide shifted , all encrypt.(ED)
7520 BZP57: Xinhua 1831 RTTY 75 nx EE. (BvR) BZP57/BZR: XINHUA nx, Beijing 0016 RTTY 75/400 "ryryryry qra qra qra de bzp57/bzr67..." (MC)
7542.7 RFTJD: FF Libreville GAB 2240 ARQ-E3 192/400 w/return of C de V to RFTJ cct JDJ,QSX was 7705.7 (ML2)
7564.5 YIX75: INA nx, Baghdad 1820 RTTY 50/400 NX in Arabic (MC)
7568 Unid: 0728 81-81 81/250 tfc (MC)
7572.5 NSY: USAF Sigonella, Sicily 1500 ISB voice on LSB, VFT-6028 on USB, wkg AJO, Incirlik, TUR, on 8092. (JD2)
7575 Unid 1445 IRA? 110/150, unable to id w/C3-Gold. (DW2)
7576.7 Egyptian MFA, Cairo 1607 ARQ ATU-80 MSGs to many embassies (MC)
7577.4 Unid 1838 ARQ-E 288/352 acf 56 encrypted. (BvR)
7585 unid 0153 ARQ-E 96/385 very weak, .7 below RFVITT.(ED)
7586 RFVITT: FF Dzaoudzi 1902 ARQ-E 96/390 acf 28 idle (no id).(BvR) prob RFVITT: FF Dzaoudzi, Mayotte Island 1447 ARQ-E 96/330 w/idles (DW2)
7595 AOK: USN Rota 0030 FAX 120/576 "FSME LERT VT:171200 NOV 96 36HR MED SFC PROG" 0045z "OSME LERT VT:171200Z NOV96 36HR SIG WAVE HEIGHT (FEET) PROG" 0100z "SFC PRESSURE PROG FNMOC ANAL VALID AT 16 NOV 96 1200Z SURFACE WIND ANAL VALID AT 16 NOV 96 1200Z" NOGAPS product. (LC)
7606.7 RFHI: French Forces, Noumea 0734 ARQ-E3 100/342 w/non-protege tfc, C deV on circuit HIJ. (RB)
7613.9 Unid: 0030. Unid digital mode resembles ASCII. (PS)
7616.2 Unid: 0730 FSK 300/200 w/3 sec bursts as per log by Mike Chace. (RB)
7622 SNN299: MFA Warsaw 1135 POL-ARQ 100/279 tfc in PP (PB)
7642 MKK: London 0209 PICCOLO Mk-6 QSY to F4.(ED)
7643.2 RFLIG: FF CAYENNE, GUF 0238 ARQ-E3 192/425 idle (SS)

7643.7 RFLIG: FF Cayenne, GUF 0721 ARQ-E3 192/400 (presumed) idling.(RB) RFVI: FF Le Port, REU 0120 ARQ-E3 100/425 Idle. (WT)
7644.3 RFVI: FF, Le Port, Reunion 2015 ARQ-E3 100 bd wkg RFQP on C.I. RUN.(JD2) RFFVAY FF Sarajevo?/Yugoslavia? 2103 ARQ-E3 100/425 idle (EW)
7646 DDH7: HAMBURG MET 0859 RTTY 50/400 Met tfc in GG. SYNOP then marker "cq de DDK2/DDH7/DDK8 frequencies 4583 7646 11638 khz". (DW)
7658 YZI223: TANJUG BELGRADE 2048 RTTY 50/400 90hz high. Press in EE(DW)
7659 HBD20: Swiss Embassy, Berne 0820 ARQ w/5LG's to unid location, ID "HBD20".(RB)
7670 RCC76: Moscow Meteo, CIS 2105 FAX 90/576 wx map (EW)
7672.5 National Guard, ARS 1656 ARS-GUARD 125/150 ACF=96 (MC)
7682.1 GXQ: Navy Whitehall, UK 2108 VFT RTTY 50/170 on ch, RYI foxes (EW)
7693 3BT3: Vacoas Meteo Mauritius 0038 RTTY w/ 75 baud coded wx then tropical storm warning for TS in Indian Ocean (LVH)
7718.3 unid 1139 ARQ-TD2 128.5/90 Idle.(ED)
7720.8 AAA6USA: USA Mars Ft Sam Houston, San Antonio 1459 Packet 300/170 wkg AAT6TNM: unid Mars w/msg re Cmd Net for 30 Nov (Zulu) being cancelled (DW2)
7784 USAF AWS Ceiba Puerto Rico 0031 RTTY 75bd w/ coded aviation wx (LVH) KAWN?? 1230 RTTY 74/850 clear text ee/synoptic wx. (RT2) AWS: USAF CEIBA, PTR 0632 RTTY 75/850 W/wx tfc (KAWN). (WT)
7784 unid: Roosevelt Roads rdo,?? USA 2112 RTTY 75/850 KAWN wx info(EW)
7788 Unid: 1847 Unid 81/246.(BvR) (prob 81-81 - LOGS)
7801 Unid: 1637 UNID 162/200 UNID FSK System, Double speed 81-81? (MC)
7805 Russian Diplo,??? 1606 CROWD-36 tfc (MC)
7808.6 Algerian Customs? 1900 COQUELET-8 26.7bd "je recu a ada nrs: 31 8345 8377..." (MC)
7815.3 BAA22: Beijing Meteo, China 1034 RTTY 50/850 wx information (EW)
7828 Russian Diplo,??? 1605 CROWD-36 tfc (MC)
7831.5 5ST: ASCENA Madagascar 0143 ARQ-E3 48/425 w/RY's, DE. (RB)
7831.7 Prob 5ST: Antananarivo Air 1507 ARQ-E3 48/360 w/idles.(DW2) 5ST?: Asecna Antananarivo? 1805 ARQ-E3 48/424 Asecna Antanan. Off freq.?(RH2)
7841.7 Egyptian Embassy,??? 2142 ARQ 5LGs (MC)
7870 NRR: Roosevelt Roads Meteo, USA 1038 FAX 120/576 wx map (EW) VL8IPS: IPS Darwin, Australia 1716 CW, "VL8IPS" marker plus mixed FSK signals (MC)
7873 unid: ? Liberia 2345 PACTOR . UNOMIL (United Nations Observer Mission in Liberia) w/ EE description of incident w/ "Charles Talyor convoy", systematic disarmament of factions. I don't know which Liberian QTH is responsible for this circuit. Anywun? (ED)
7880 DDK3: Hamburg Meteo 0812 FAX 120/576 w/wx chart.(DW2) DDK3: Hamburg Meteo, G 2118 FAX 120/576 wx map (EW)
7896.7 RFLI: FF Fort de France 0715 ARQ-E3 96/425 (presumed), idle, should be C.I. LIH. (RB)
7907.7 Ganfuda Oil Co: Libya 0637 ARQ w/several tlxs sent, op chat in EE.(RB) Unid 1530 ARQ sc trip eng mgs abt crane. Unid 1626 ARQ sc kkkk kkkk kkkk eng comms. (BvR)
7937.7 Tripost, Paris 1630 ARQ-M2 200 1 channel, off-line enciphered msgs, to RFFVAT (COMELEF Aconit) (ANEE)
7942 German/Italian/Turk Diplo 1639 RS-ARQ 240.1bd tfc (MC)
7964.2 CSP: Portuguese Police,??? 2137 ARQ Interpol reports in Portuguese "fm comgerpsp" (MC)
7971.7 Unid 1913 ARQ-E 96/390 acf 56 idle no id or tfc in 1 hr.(BvR)
7972 Unid: 14 ARQ-E 192/335. No legible tfc seen over 4 week period most likely encrypted French Military circuit. (PS)
7981.6 Unid: 1838 UNID 2400bps UNID PSK System (MC)
7988.7 Unid: 0529 RTTY 96/860 unid, 5FG'S (RH2)
7998.2 Unid: 0922 ARQ-E3 96/425 idle not sure about location yet. signal is very poor. (EW)
8006.7 Egyptian MFA, Cairo 2154 FEC ATU-80 instructing Washington to QSY 7845kHz (MC) Egyptian MFA, Cairo 2042 ARQ ATU-80 MSGs to "boustan new york" (MC)
8010 Unid 1913 RTTY 75 Unid encryption.(BvR)
8010.7 7RQ20: Algerian MFA, Algiers 2226 COQUELET-8v2 13.3bd tfc (MC)
8020 HMF85: KCNA Pyongyang 1217 RTTY 50/250 propaganda nx (DG)
8028 SNG202: MFA Warsaw 0711 RTTY 100R/512 ryry (PB) V5G: MFA Bucharest 1211 ROU-FEC 164.5/395 circulairs in FF. (PB)
8028.1 V5G: MFA Bucharest 1100 CW w/callsign and into tfc. At 1102, into

ROU-FEC 164.65/293 w/online-encrypted tfc. Good synch on signal. Started losing synch around 1114 due to QRM. Signal down at 1120.(DW2)
8050.2 prob RFQP: FF Jibuti 2126 ARQ-M2 (200/280) w/idles.(DW2) RFQP: FF Jibuti 0200 ARQ-M2 199/1000 idle presumed. (RT2)
8070 DOR:Bulgarian MFA, Sofia 2154 RTTY 75/500 Press review in Bulgarian(MC)
8077.5 unid 0028 UNID 144/170 not FEC-A, appeared random in Bit Analysis.(ED)
8084.3 MKK: RAF London 1220 RTTY 50/340 "the quick brown ...ryry de MKK". (PB)
8092 AJO: USAF Incirlik, TUR 1500 VFT 6028 on USB, ISB voice on LSB, wkg NSY on 7572.5. (JD2)
8099.3 DOR: MFA Sofia 1256 RTTY 75/500 "ryry, zar 300" then go into 300bd speed but not to decode (is not ASCII or Baudot). (PB)
8105 RFFX: MOD Paris, F 2030 ARQ-E 72/425 idle (EW) RFFX: MOD Paris 2150 ARQ-E 185/400 w/5LGs to RFFXL Naqoura cct XXL (ML2)
8108.3 RFQPCS: FF Djibuti (QRG) 1757 ARQ-M2 200 acf 56, oo rfftces de reqpcs cause non response cv int zbz int zbv.(BvR)
Prob RFQP: FF Jibuti 2122 ARQ-M2 (200/356) w/idles. (DW2)
8129.5 Unid: 1731 VFT: 7ch of 75/170 FSK UNID System, type 6028 (MC)
8131.7 Italian Diplo/Mil,??? 0848 UNID 1200bd UNID FSK System (MC)
8140 prob BMB: T'ai'pei Meteo 1520 FAX 120/576. Audible but unable to get good picture due to heavy QRN. (DW2)
8146.6 IMB55: Rome Meteo Italy 0001 FAX w/ wxchart (LVH)
8150.4 PBB: Dutch Navy Den Helder RTTY 75R/850 CARB availability msgs. (PB)
8151 NNN0FZQ: USN MARS Region 3? 1527 PACTOR 200/200. Heavy QRM from nearby voice comms. Difficult to get steady synch. (DW2) IGJ44: Italian Navy Augusta 1334 RTTY 75/850 CARB availability "igj41/igj42/igj43/idr2/idr3/idr4/idr5". IGJ44: Italian Navy Augusta 0732 RTTY 100R/850 CARB "IGJ44/IGJ42po/IGJ43o/IDR2/IDR3/IDR4/IDR5" (PB)
8157.6 MKD: RAF Akrotiri 1322 RTTY 50/340 "the quick brown ..ryry de MKD"(PB)
8165 DGZG:MFA BELGRADE 0824 RTTY 75/500 Marker "lms lms lms ry's" then bk gd zok znn ?rh tmw ok ? k" and"tks znn gb 73 88 sk ??". Offair(DW)
8167.5 MKK: London 0143 PICCOLO Mk-6 to MUH07, QSY to f3166.(ED)
8176.4 HXP: St Denis Meteo, Reunion 1800 RTTY 75/400 wx for E. African coastal areas & Antarctic Islands. (JD2)
8182.7 Unid: PACTOR 300 station in FF. Sarajevo-Paris link, probably MSF. (JJ2)
8186.7 Egyptian MFA, Cairo 2141 ARQ idle in IRS mode (MC)
8221.5 DLB750: DRK Lay Barge 750 1500 ARQ pos Tapti field mgs to Waffa rdo room login 81230. A6KJ: HLS-2000 1635 ARQ tlx tfc abt engine. Waffa 1601 ARQ msgs to HLS 2000 and sc fdfd xukt. Unid vsl 1707 FEC movements. WAFFA? 1636 FEC Marine spread. Unid 1654 ARQ sc xukt plb 750 (Waffa clg plb 750?). (BvR)
8225 3ETG9: M/S Royal Majesty 2258 ARQ Majesty Cruise Lines 32,400 DWT cruiseship clg/wkg WOO re R/T tfc holding for ship. (RB)
8255.4 poss CCS: Chile Naval Santiago 0048 RTTY 100/800 w/meteo report for Antarctic waters. Ref to the Chilean Navy training ship, the 4-masted schooner Esmeralda (BE-43). Thanks RD!(DW2)
8272.7 Egyptian MFA, Cairo 1727 ARQ Calling Embassy London selcal "XBVY" (MC)
8303 LOR: AN Puerto Belgrano ARG 0045 RTTY 75/750 W/"WUS DE LOR" then msgs in 5LG. (WT)
8330.3 RFHI: FF Noumea,NCL 1317 ARQ-E3 192/336 (RT2)
8331.5 GYA: RN London 0955 FAX 120/576 wx fax (DG)
8338.1 DHJ59: German Navy Wilhelmshaven 2020 RTTY 150/170 (VFT) msg begins w/ ryry then go over to encrypted tfc. (PB)
8345 Greek Maritime Net 2113 ARQ w/partial login 17076 -ARA?, sends selcall MPKV (QSX should be 8408 per WUN posts). (RB)
8361.8 Greek Maritime Net 2303 ARQ Unid sending selcall's TVVQ, TVXS, TVXV; ships noted: M/V Gnik, Voyager & Trym. (RB)
8377.5 DBAN: MV Fritz Behrens 0254 ARQ w/selcal XVSY(NMN:USCG Portsmouth).(DW2) WLVD: SS LURLINE 1951 ARQ W/tlx. Login 10987 WLVD. Unid: 2035 ARQ/CLOVER-II Sent a line of numbers in ARQ then went to Clover II. 3EYB6: M/V KUDU 0105 ARQ W/tlx. Login 42577 3EYB6. (WT)
8379 ELIG7: Indian Ocean 0036 ARQ tfc via WLO. LAEY4: Consensus Manitou 1306 ARQ tfc (AB2) ELBM4: M/T Alden W. Clausen 0011 ARQ 35,588 DWT Liberian-flagged Chevron tanker w/BBXX wx obs. 3EAW7: M/V Pacific Rider 2320 ARQ 11,457 DWT Ro/Ro car carrier, w/ETA Valapaiso (Chile), logged in Feb.96 as Sea Rider, now back to original name. (RB)
8379.5 JJHU: M/V NOSHIRO MARU 2240 ARQ Wkg NOJ USCG Kodiak, 3356N 11905W. Login 27087 JJHU. (WT)

8380.5 9MBR8: Puteri Delima 1145 ARQ tfc meteo, Singapore. LAER2: Aries 1252 ARQ tfc. (AB2)
8381 SYOC: M/V ANGELIC SPIRIT 0445 ARQ W/tlx sailed Long Beach. Login 16701 SYOC. (WT)
8381.5 J8DS3: Hanbonn Brother? 1307 ARQ tfc. (AB2) YLBB: MK Vasiliys Struve 0031 ARQ 6,400 DWT Latvian-flagged general cargo vsl, w/list of parts needed for crane to Riga. 9HOJ3: M/V Velebit 0122 ARQ 42,249 DWT bulk carrier, w/tlx tfc. (RB)
8382 JMMU: Kaiwo Maru 1339 ARQ OBS msg. (AB2) ESAC: ML SOODLA 1027 ARQ admin to ESA.(HOOD)
8382.5 BROO: JIN JI LING 2058 ARQ 2115N 11841W. Eta Balboa. Login 20151 BROO. (WT)
8383 SXNU: M/V Ruby 0342 ARQ 2,450 DWT bulk carrier, w/posn 1344N/6755W, ETA SW pass, login 16939 SXNU. SYIZ: Asphalt Leader 2220 ARQ 32,265 DWT tanker w/tlx in unk language. SWWQ: M/T Argonaftis 2226 ARQ 157,696 DWT tanker w/msg ck. SWUX: M/V Anangel Splender 2342 ARQ 164,110 DWT bulk carrier, w/tlx for posn 1749N/8247W, ETA Puerto de Tarragona (Spain) via SVA, login 29596 SWUX. (RB) SYCY: M/T ASPHALT CHAMPION 0048 ARQ W/tlx. (WT)
8384.5 SBDH: United Moonlight 0550 ARQ 55,272 DWT tanker w/AMVER tfc, login 26823 OTMOON. (RB)
8385 VRON: Unid 0025 ARQ ETA Port Arthur, selcall 48725. (AB2)
8385.5 UIDK: TKH VALENTIN KHUTORSKIY 0824 ARQ admin (in Eng) to Budapest via HEC.(HOOD) WXBZ: Potomic Trader 0537 ARQ w/amended ETA San Francisco pilot, login 11180 WXBZ. (RB)
8386 WLBX: MV LAWRENCE H GIANELLO 1013 ARQ BBXX from 34.3N 39.7W.(HOOD) WEZD: SS CHIEF GADAO 2354 ARQ W/AMVER/PR, 4020N 13346W. Login 10867 WEZD. WTST: SS LIHUE 1745 ARQ In OPR+ mode trying to get clearance from Plead Control. C6FA3: KENNETH T. DERR 2049 ARQ W/Amver/SP. Los Angeles to San Francisco. (WT)
8386.5 UBDB: Koulikovo 1233 ARQ tfc, selcall 53075. P3FP7: Super As--- 1536 ARQ tfc to agent on Ho Chi Minh City. UBDB: Koulikovo 1233 ARQ tfc, used selcall 53075. (AB2)
8387 SVEJ: Sea Trident 1420 ARQ tfc for Long Beach & Seoul, selcall 16985. (AB2) BROO: M/V Jin Ji Ling 0553 ARQ Chinese- flagged 20,333 DWT bulk carrier (Guangzhou Maritime) w/posn tlx, 1635N/10118W, amended ETA Salina Cruz (Mexico), login 20151 BROO. (RB) C6KB2: M/V AUK ARROW 0027 ARQ W/Amver/PR. Login 70061 AUKA. C6MF7: M/T TORBIN SPIRIT 0030 ARQ W/wx Obs (BBXX). Login 27645 TBSP. (WT)
8389.5 LASB4: Santos 1158 ARQ tfc. C6MC5: Chevron Employee Pride 1304 ARQ OBS tfc. C6IN4: Hoegh Merchant 1328 ARQ AMVER msg. (AB2) ATZN: M/V LOK KIRTI 0025 ARQ cking in for trf. Login 23728 ATZN. (WT)
8390.5 3FAL6: Crown Emerald 0615 ARQ 9,800 DWT reefer (NYK) w/AMVER tfc, login 71153 CEME. (RB)
8391.5 YLBW: MT Mayori 0659 ARQ 9,060 DWT w/posn 3710N/00245E, ETA Gibraltar. (RB)
8392 UWBS: RKTS Nikolay Filchenkov 0651 RTTY 50/170 Ukrainian fishing trawler /freezer w/RYRY/DE to URL, Sevastopol rdo., no joy here. (RB)
8392.5 UTHB: TK I. Erenburg (Il'ya Erenburg) 0233 ARQ w/ DISP/1 msg fm KM Marchenko. Garbled due to QRM fm nearby ARQ signal. (DW2) UCVR: TK GENERAL TYULENEV 1016 ARQ admin from Km Ludchenko to UFN.(HOOD) UZSE: TK Adygeya 2358 ARQ 62,322 DWT Ukrainian tanker (Novoship) w/tfc, also sends for the Ukr. 109,640 DWT combination vsl, TKH Boris Butoma, URUS. UZXU: TK Geroi Sevastopolya 0010 ARQ 55,870 DWT tanker (Novorossiysk Shpg) w/crew TG's via UGW. 9HMX3: TK Novomir 1 0025 ARQ 23,330 DWT Russian crewed tanker (Novoship UK) w/crew TG's to Novorossiysk via UGW. EOIW: TKH Sergey Lemechev 0651 ARQ w/crew TG's. EODX: TK Sorokaletie Pobedy 2313 ARQ 67,980 DWT tanker (Novoship) w/log in for msgs, login 56637 EODX. UVLQ: TKH Marshal Zhukov 2350 ARQ 59,638 DWT bulk carrier, w/NVRCHSM tfc, also sends tfc for UERJ, TKH Petr Schmidt; UBLA, Mekhanic Slauta; & EOIW, TKH Sergey Lemchev (DISP-1 report).
8393 BPDF: unid 1430 ARQ tfc. BPMZ: Zhen Fen 3 1436 ARQ tfc. BPEQ: Sen Hai I 1411 ARQ tfc. BPLI: Cang Zhou 1423 ARQ tfc. BPBF: Hai Hua 1445 ARQ tfc. (AB2) BPOC: AN PING 3 1805 ARQ Wkg XSG w/posn 4151N 13220W. Login 20123 ANPING3. (WT)
8393.5 5LTC: M/V Serena Sky 0617 ARQ w/AMVER/RP, 154,934 DWT tanker (at Philadelphia), login 636005630 5LTC. (RB)

8394 C6KU7: English Star 1219 ARQ OBS tfc. (AB2) P3AA3: M/V Epta 0200 ARQ 26,060 DWT bulk carrier w/berthing report (no location given). ELRU3: M/V Seaboard Universe 2120 ARQ 9,200 DWT Liberian-flagged Ro/Ro cargo ship, w/tlx reporting underway from St Thomas, ETA Miami, login 24854 ELRU3. (RB)
8394.5 UHCW: RTMA Lenonogorsk 0526 ARQ 2,652 DWT Russian fishing trawler/ freezer, Atlantic-class w/crew TG's. (RB)
8395 WBN5981: Monitor (tug) 0619 ARQ w/tlx to "Disp JAX" (WPE?) re dep San Juan sea buoy, login 59810 WBN5981, Crowley tugs must be a recent addition to Globe Wireless. (RB)
8395.5 V2LY: M/V Aivik 2144 ARQ 4,855 DWT Ro/Ro cargo ship, w/tlx tfc, also used c/s VOPP, both show as vsl, login 02969 AIVIK. (RB)
8396 LYDG: ML KELME 0842 RTTY 50/170 svc msg to LYK. LYCK: ML NIDA 0907 RTTY 50/170 admin from Km Smirnov to LYK and msgs (in Eng) for Barcelona and Ceuta pilot station. LYDD: ML SVENTOJI 0833 RTTY 50/170 admin from Km Basiuk to LYK.(HOOD) DVRD: M/V General Tirona 0802 ARQ 29,095 DWT bulk carrier, w/tlx, login 26420 DVRD. (RB)
8397 UCOM: TKH YAKOV REZNICHENKO 0836 ARQ admin (in Eng) to NORSHIP HONNIGSVAG via UCE (is ex UKFQ).(HOOD)
8397.1 UJKG; TKH KONSTANTIN YOUN 1848 ARQ admin to UCE, vsl bnd Malaga to Runcorn, England (ITU now gives as UCMS).(HOOD)
8397.2 UCNB: TKH PARKOLOVO 0822 ARQ psn rpt to UCE from Km Smirnov (ex URYH). (HOOD)
8397.3 UCBM: TKH MEKHANIK PUSTOSHNYY 0831 ARQ admin from Km Karpenkov to UCE. (Note UCE paired freq is 8549).(HOOD)
8398.5 J8FS6: TKH CITY OF TOBOLSK 0825 ARQ admin (in Eng) to EUROSTAR OPERATIONS DEPT for crew wages via SAB.(HOOD) ENZZ: TK General Merkzhiladze 2149 ARQ 27,840 DWT tanker w/crew info tlx from master KM Kadzhaya, login 55310 ENZZ. (RB)
8398.7 LYCK: M/L Nida 2141 RTTY 50/170 2,180 DWT dry cargo vsl w/crew TG's to Klaipeda. (RB)
8399.5 N/A: TR Anetiya 2034 RTTY 50/170 crew TG's to Odessa (UUI), vsl bound Port Durban (S. Africa). (RB)
8401 3FLJ3: M/T Linkuva 2153 RTTY 50/170 5,873 DWT tanker w/tlx Lavinia Athens re delay in ETA, is Ex-UHPN, and prefix was "TM". (RB)
8401.5 USJZ: PB SERGEY VASILISIN 2004 RTTY 50/170 admin from Km Krasnik to UIW.(HOOD) USGW: TKH Ismailtsya 1937 RTTY 50/170 9.056 DWT Ukrainian-flagged general cargo ship, w/RYRY/DE to UUI, then passes DISP-1 report from master KM Pogorelskiy. UWFL: TKH Serov 0613 RTTY 50/170 8,874 DWT gen cargo vsl, w/admin TG to Odessa rdo from master KM Lyahovetskiy. UUUO: TKH Kapitan Georgiy Baglay 2037 RTTY 50/170 16,355 DWT Ukrainian dry cargo vsl, w/crew TG's (ODS/UMF). (RB)
8401.6 3FKW4: TR REF VEGA 2019 RTTY 50/170 crew TGs to UIW (vsl is ex BEREG YUNOSTI, UPBC).(HOOD)
8401.7 UWGZ: TKH KAPITAN SMIRNOV 0730 RTTY 50/170 admin from Km Fomin to ODS/UMF via UUI.(HOOD)
8402 UYBM: TKH Novoshakhtinsk 0756 RTTY 50/170 Ukrainian 3,327 DWT cargo vsl, w/ETA & posn (3755N/2624?W). (RB)
8402.5 UWKV: TSM KOLOMENSKOYE 0845 RTTY 50/170 admin from Km Marchenko to UIW.(HOOD) UOZO: RTMKS Porechye 2040 RTTY 50/170 Russian stern ramped super fishing trawler/super freezer, w/RYRY/DE to UIW, & into crew TG's to K-grad. (RB) ESMD: RTMS Kormoran 2045 RTTY 50/170 3,941 DWT Estonian super fishing trawler/super freezer (Rybolovnyy Trauler Morilzhnyy) w/ RYRY/DE to UIW, K-grad, then w/fax tlx to Morocco re amended ETA to same, w/hull#/ID RTMS 753. URWH: TR Bukhta Novik 2239 RTTY 50/170 4,900 DWT reefer/fish carrier w/admin TG's to DPR Vladivostok Vostoktransflot from KM Dozerets. UZNV: RKTS Konstrukor Koliv 1940 RTTY 50/170 Ukrainian 3,977 DWT fishing trawler/freezer, w/RYRY/DE to URL, & into crew TG's. UOKV: TR Kapitan Pyrakha 2226 RTTY 50/170 5,250 DWT Russian reefer w/crew TG's, vsl bound Puerto Rico. (RB)
8403 OUZG2: Joergen Lauritzen 1418 ARQ tfc in Danish. (AB2) UIAD: BMRT Altay 1955 RTTY 50/170 3,390 DWT Russian long range/endurance large freezer/ factory trawler w/RYRY/DE & admin tfc to Murmansk Tralflot from master KM Audrosov using hull ID MB-0110, vsl bound Port Said, Egypt. (RB)
8403.5 5/Kormoran, from master KM Serov. UUUB: RKTS Marshal Sudets 2035 RTTY 50/170 3,977 DWT Ukrainian fishing trawler/freezer, w/admin TG's from master, KM Achauanova. (RB)
8405 USOM: TKH DEDOVSK 0755 RTTY 50/170 admin (in Eng) to Istanbul from Km

Guzik via UAT.(HOOD)
8406 UDHK: TKH MURMAN 0841 RTTY 50/170 admin w/ eta for Ceuta to UAT. (HOOD)
8406.5 UNID: BUHTA OMEGA 0430 RTTY 50/170 W/tlg's in RR. (WT)
8407.5 UNIX: PR RUS 0830 RTTY 50/170 crew TGs to UIW.(HOOD)
8408 UAYP: LEONID IVANOV (MB-0018) 0829 RTTY 50/170 admin to UDK2 for MURMANSK BVC SEVRYBA.(HOOD)
8414.5 GMDSS CHANNEL 1020 GMDSS 100/170 Monitor to disc. GMDSS CHANNEL 0817 GMDSS 100/170 8 packets (non distress) in 4 hours (DW)
8417 GKE4: Portishead rdo UK 0407 ARQ w/ idler and callsign only CW marker (LVH)
8417.5 KFS: Palo Alto rdo CA US 1358 ARQ w/ idler and callsign only CW marker (LVH)
8418 IAR: Rome rdo Italy 0405 ARQ w/idle and callsign only CW marker.(LVH)
8418.5 LGB: Rogaland rdo Norway 0404 ARQ w/ idler and callsign only CW marker (LVH)
8419 WLO: Mobile rdo AL US 1355 ARQ w/ idler and callsign only CW marker VIP: Perth rdo Australia 1357 ARQ w/ idler and callsign only CW marker (LVH) WLO: MOBILE rdo 0837 ARQ free idles w/CW Marker "WLO". UAT: MOSCOW rdo 2000 FEC tfc list. VIP33: PERTH rdo 1944 ARQ "VIP" and 8 tuning bursts. At 1952z replies to unid ship "GlobeWireless 1952 11/24/96 no tfc." (DW)
8419.5 PPR: Rio de Janeiro rdo Brazil 0400 ARQ w/ idler and callsign only CW marker (LVH)
8420 FFT41: ST. Lys rdo 0905 FEC wx wngs (DG) FFT: St. Lys rdo France 0321 ARQ. w/ idler and callsign only CW marker (LVH)
8420.5 HEC: Berne rdo Switzerland 0357 ARQ w/ idler and callsign only CW marker (LVH)
8421 WLO: Mobile rdo AL US 1354 ARQ w/idle and callsign only CW mkr.(LVH)
8421.5 9AR: Rijeka rdo Croatia 0355 ARQ w/ idler and callsign only CW marker. LZW: Varna rdo Bulgaria 0356 ARQ w/ idler and callsign only CW marker (LVH)
8422 NRV: USCG Apra Harbor Guam 1352 ARQ w/ idler and callsign only CW marker (LVH)
8422.5 KPH: San Francisco rdo CA US 1351 ARQ. w/ idler and callsign only CW marker USU: Mariupol rdo Ukraine w/ ARQ idler and callsign only CW marker 0352. (LVH)
8423 SVU: Athens rdo Greece 0350 ARQ w/idle and callsign only CW mkr (LVH)
8423.5 DAN: Norddeich rdo Germany 1349 ARQ w/ idler and callsign only CW marker (LVH)
8424 SVA: Athens rdo 0826 FEC tfc lst.(BvR) WCC: Chatham rdo MA US 1348 ARQ w/ idler and callsign only CW marker (LVH)
8425 KLB: Seattle rdo WA US 1346 ARQ w/ idler and callsign only CW marker FFT: St. Lys rdo France 0342 ARQ w/ idler and callsign only CW marker (LVH)
8425.5 WNU: Slidell rdo LA US 1345 ARQ w/ idler and callsign only CW marker. HEC: Berne rdo Switzerland 0340 ARQ w/ idler and callsign only CW marker (LVH)
8426 NMC: USCG CAMSPAC San Francisco CA US 0338 ARQ w/ idler and callsign only CW marker (LVH)
8426.5 WCC: Chatham rdo MA US 1343 ARQ w/idle and callsign only CW mkr.(LVH)
8427 KPH: San Francisco rdo CA US 1342 ARQ w/ idler and callsign only CW marker. OXZ: Lyngby rdo Denmark 0337 ARQ w/ idler and callsign only CW marker (LVH)
8427.5 PPQ: Serbetiba rdo Brazil 1339 w/ ARQ idler and callsign only CW marker. A9M: Hamala rdo Bahrain 0335 ARQ w/ idler and DE CW marker (LVH)
8428 NMN: USCG CAMSLANT Chesapeake VA US 1337 ARQ w/ idler and callsign only CW marker (LVH)
8428.5 ZSC: Cape Town rdo South Africa 0334 ARQ w/idle and DE CW mkr.(LVH)
8429 EAD: Madrid rdo Spain 0333 ARQ w/idle and callsign only CW mkr.(LVH)
8429.5 NMO: USCG Honolulu HI US 1334 ARQ w/idle and callsign only CW mkr (LVH)
8430.5 WLO: MOBILE rdo 0849 ARQ free idles w/CW Marker "WLO". (DW) WLO: Mobile rdo AL US 1330 ARQ w/idle and callsign only CW mkr. (LVH)
8431 KEJ: Hoolehua rdo HI US 1331 ARQ w/idle and callsign only CW mkr(LVH)
8432 WLO: Mobile rdo AL US 1329 ARQ w/idle and callsign only CW mkr. (LVH)
8432.5 UFN: Novorossiysk rdo Russia 0329 ARQ w/idle and callsign only CW marker(LVH)

8433 XSG: Shanghai rdo China 1329 ARQ w/ idler and callsign only CW marker (LVH)
8434 WLO: Mobile rdo AL US 1328 ARQ w/ idler and callsign only CW marker. (LVH)
8434.5 LPD: General Pacheco rdo Argentina 0326 ARQ w/ idler and callsign only CW marker (LVH)
8435 XSQ: Guangzhou rdo China 1326 ARQ w/ idler and callsign only CW marker. VCT: CCG Tors Cove NF Canada 0321 ARQ w/ idler and callsign only CW marker (LVH)
8435.5 OST: Oostende rdo Belgium 1324 ARQ w/ idler and callsign only CW marker (LVH)
8439 PBC38: Dutch Naval Goeree Island Netherlands 1146 RTTY w/ 75 baud RY test tape (LVH) PBC38: Dutch Navy Goeree 1931 RTTY 75R/850 CARB availability msgs. (PB)
8453 HWN: French Naval paris France 0239 RTTY w/ 75 baud RY test tape. Mixing it up w/ VAI. (LVH)
8453.2 HWN: Navy Paris, F 2035 RTTY 75/850 RY 10 count (EW)
8459 NOJ: USCG KODIAK AK 0020 FAX 120/576 W/very good wave analysis N. Pacific. (WT)
8463 CKN: Canadian Forces Lazo B.C. 1650 RTTY 75/850 "NAWS DE CKN ZKR F1 2386 4158 6245 8318 12377 16552 222OO AR" (WT)
8465 Unid 1515 RTTY 100 encrypted.(BvR)
8466 UIW: Kaliningrad rdo 0841 RTTY 50/200 navtex msgs (DG)
8467.5 JJC: Kyodo Tokyo Japan FAX (120/576) photo and what looked like EE newspaper stories 1131. (LVH) JJC: Tokyo rdo 0718 FAX 60/576 W/ Japanese nx (newspaper style) in JJ. (WT)
8468 FUV: French Naval Djibouti 0141 RTTY w/75 baud RY test tape(LVH) UHS: MURMANSK rdo 1526 RTTY 50/170 info bulletin (then rptd in very high speed CW).(HOOD)
8475.5 FUX: French Naval Le Port Reunion Islands 0222 RTTY 75bd RY test tape (LVH)
8478.5 FUF: FN Fort de France 0130 RTTY 75/850 rYS/SGS DE FUF TESTING 0-1 KKKKKKKILO NINE. (RT2) FUF: 0149 RTTY 75/850 RYs/SGs/10-count/de FUF(SS) FUF: French Naval Fort de France Martinique 1129 RTTY 75bd RY test tape (LVH) FUF: French Forces Fort de France 1233 RTTY (75/820) w/test tape. (DW2) FUF: FN Fort De France, Martinique 0918 RTTY 75/850 RY 10 count de fuf fuf (EW)FUF: FN FT De France 0536 RTTY 75/850 RY'S/ID (RH2)
8494 MTI: Royal Navy Plymouth UK 0214 RTTY w/ 75 baud RY test tape.(LVH)
8504 NMG: USCG New Orleans 0508 FAX (120/576) w/wx msgs "typed out" and sent via fax. NMG: USCG New Orleans 1225 FAX (120/576). End of fax re: new schedule being available. (DW2)
8514 WLO: MOBILE rdo 0839 FEC Tfc list for WLO/KLB/WSC. Storm trac for MARCO. Tfc list for Lyngby. No station info (DW)
8528.5 SN MADRID (EBA) 1001 RTTY 75/170 Marker "cq de EBA NAVAREA three NAVAREA tres" (SN MADRID (EBA) 1714 RTTY 75/170 Nav warnings in EE (DW)
8538 6WW: unid 0340 RTTY 75 reverse keyed test tape. (HB) (French Navy, Dakar -LOGS) 6WW: French Naval Dakar Senegal 0158 RTTY w/ 75 baud RY test tape. (LVH) 6WW: Dakar Senegal 0420 RTTY 75/850 "Voici testing de la Station 6 whiskey whiskey" marker, RY's and SG's (BDS)
8540 UBN: Mariupul rdo 1534 RTTY 50 mgs.(BvR)
8549 UCE: ARKHANGELSK rdo 1004 ARQ tfc to UNFZ: TKH MEKHANIK MAKARIN (Itu now gives as UCOR).(HOOD)
8556 SAB44: Goeteborg rdo Sweden 0159 ARQ w/ idler(LVH)
8565 FUB: French Naval Paris France 0155 RTTY 75bd encrypted tfc. (LVH)
8625 FUM: French Navy Papeete 1156 RTTY (75/810) w/call tape. (DW2)
8641.1 FUJ: French Navy Noumea 1152 RTTY (75/810) w/test tape.Each line had a number...I picked it up at 989. After 999, it rolled over to 001.(DW2)
8643.5 UUI: Odessa rdo Ukraine 0112 RTTYw/ 50 baud msg tfc(LVH)
8646 FUJ: French Naval Noumea New Caledonia 1202 RTTY w/ 75 baud RY test tape (LVH)
8650 SPB: Szczecin rdo 1148 ARQ free idles and CW ch mkr.(DW2) SPB: Szczecin rdo Poland 0107 w/ ARQ CW DE marker and idler (LVH) SPB: SZCZECIN rdo 2312 ARQ free idles w/CW Marker "de SPB". (DW)
8677 CBV: VALPARAISO 2338 FAX 120/576 Weak analysis (DW)
8677.5 UGC: Saint Petersburg rdo 1141 ARQ w/sitor free signal & CW id.(DW2) UGC: St. Petersburg rdo Russia 0056 ARQ w/ idler and callsign only CW marker (LVH)
8682 NMC: San Francisco rdo, USA 1136 FAX 120/576 wx map (EW) NMC:

USCG San Francisco rdo CA US 1154 FAX 120/576 w/ what looks like a schedule (LVH)
8752.5 CNT: Chilean Navy, Magallanes 0120 RTTY 100/425 w/"MIKD MIKD MIKD DE CNT". (RB)
8846.5 Unid 1922 FEC Unid 5 fgs zczc 66000 ///// Tunisian diplo? (BvR) (MFA Tunisia logged here - LOGS)
8895.5 unid: 0130 FEC 109/300. Baud rate is not a typo. 5lg's w/ USB coordination on 8894, using spanish, "cambio", "correcto" and phonetic labels such as "Lima." Detail: I've logged 109bd FEC on a number of frequencies in the past. However, I haven't hrd any for several years until tonight. When I last posted something on these signals an "anonymous" monitor emailed me saying that the origin was Cuba. However, I suspect from the USB comms I hrd tonight that the origin might just be Mexican military of some sort. (ED)
9066 Polish Emb., Moscow 0821 POL-ARQ 100/160 5FGs "m:moskwa do:msz" (PB)
9075 P6Z: MFA Paris, F 1046 FEC-A idled for a long time. off at 1107 (EW)
9076.6 prob RFFA: MOD Paris 2142 ARQ-E3 (192/310) w/idles. (DW2)
9090 NPG: San Francisco USCG, USA 0956 FAX 120/576 wx map (EW)
9110 NMF: USCG Boston 2146 FAX (120/576) w/SFC Analysis chart.(DW2) NMF: USCG Boston 1903 FAX 120/576 sched part 1, 1914z sched part 2. (LC)
9114 HGG31: MTI BUDAPEST 1025 RTTY 50/400 Press in EE (DW)
9118.5 MFA Algiers 0715 COQUELET-8 26.67 ckt path testing w/ unid embassy til 0730 (ANEE)
9126.7 prob RFTJD: FF Libreville 2151 ARQ-E3 (192/304) w/idles. (DW2) PARIS MOD Paris France. 0100. ARQ-E3 192/340.Controle De Voie. Circuit HAI. (PS)
9154 D4B: Sal Air Cape Verde Islands 2354 RTTY w/ 50 baud RY test tape nice strong signal from Africa. (LVH)
9158 Russian Diplo,??? 1442 CROWD-36 tfc (MC)
9166.4 Unid: MFA Berne? 1231 ARQ w/5L groups. (DW2) Swiss MFA, Berne 1633 PACTOR 200/200 UNID sub-mode, tfc (MC) HBD20/3: Swiss MFA, Berne 1509 ARQ 5LGs ending "hbd20/3" (MC)
9181.5 unid 0125 ARQ 100/400 wide shifted and entirely encrypted.(ED)
9202 V5G: Romanian MFA, Bucharest 1554 ROU-FEC 164.5/400 (bitmask=24) Diplomatic circulars in RR (MC)
9207.1 V5G: Romanian MFA, Bucharest 1513 ROU-FEC 164.5/400 MSGs in RR to Embassy Damascus (MC)
9210 Unid: 1547 RTTY ??/450 hand keying of high and low tones continuing through 1642. Occasional short idles between shifts.(DW2)
9212.1 V5G: Romanian MFA, Bucharest 1521 ROU-FEC 164.5/400 MSGs in RR to Embassy Baghdad (MC)
9216.7 Cairo Egypt 1430 ARQ Ministry of Foreign Affairs point-to-point relaying msgs from bustan london to MFA dated 26/11(MS)
9221.7 Nicosia Cyprus 1435 ARQ Embassy of Egypt point-to-point telegrams to MFA Cairo(MS)
9241.7 EGYPTIAN EMB ALGIERS 1651 ARQ Tfc fm Algiers (yphkg kdqikef) in ATU80. Stopped/restarted couple of times w/ no selcalls on restart (DW)
9259 P6Z: French MFA, Paris 1527 FEC-A 192/400 5LGs to "SRZ944" Embassy Warsaw (MC)
9280 RUZU?: 1854 RTTY 50/500 WX reports in Cyrillic (MC)
9288 Unid SOUD station 1430 RTTY 75/500 msgs prefixed "11177 70004". (JD2)
9288.1 Unid: 0744 RS-ARQ 228.7/180 (MC)
9292 Unid: 0300 ANDVT comms. (JJ)
9310 GYU: RN Gibraltar 2320 PICCOLO-6 w/svce msgs to unid sta (ML2)
9310.5 MKD: 1830 PICCOLO-6 test tape MKD de GYU channel also active w/ crypto tfc.(KN)
9318 NRK: USN Keflavik Iceland 2349 FAX 120/576 w/ a NOGAPS prog wx chart (LVH) NRK: USN Keflavik Iceland 1243 FAX (120/576) w/wx chart. At 1300, switched to a "different sounding" fax, no chart and only the following heading provided: "1245 06DE96 1IC-4 3576 43371 ECO 6". Was this encrypted?? hrd similar broadcast at about the same time from USN Pearl Harbor. (DW2)
9337 SOUD Station,??? 1554 RTTY 75/500 5LGs (MC) MKK: Royal Air Force, London 1556 VFT: 4ch of 50/170 RTTY, "the quick brown fox... test de mkk" (MC)
9337.4 MKK: RAF London 0901 RTTY 50/340 VFT test "the quick brown..de mkk".(PB)
9338 MKK: RAF London 2320 PICCOLO-6 w/svce msg (ML2)
9340 RCH72: Tashkent Meteo Uzbekistan 2345 FAX 90/576 w/ wx) chart. Signal weak and chart was distorted. (LVH)
9360 OXT: Kobnhavn Meteo 1242 CW cw-ID w/tone; at 1244 starting FAX

transmission. (AI)
9438 JMJ3: Tokyo Meteo, Japan 1115 FAX 120/576 wx map (EW)
9797 YOJ27: ROMPRES BUCHAREST 1007 RTTY 50/500 Press in FF. YOJ27: ROMPRES BUCHAREST. 0904 RTTY 50/500 Press in EE (DW)
9970 JMH3: Tokyo Meteo, Japan 1114 FAX 120/576 wx map(EW) JMH3: Tokyo Meteo Japan FAX 2335 120/576 w/ wx chart (LVH)
9980.7 Unid: 1545 PACTOR-1 100 200bd also, huf/asc, no UN formats used, though this prob UN Zaire, til 1630 (ANEE)
9983.7 RFFA: MOD Paris, F 0724 ARQ-E3 100/425 idle (EW)
9987.2 Romanian Emb. Warsaw 1511 ROU-FEC 218/400 diplo tfc (DG)
10026.7 YPHKG RKUKGK: Egyptian Embassy Havana 2252 ARQ w/ ATU-80 chatter. At 2306, active w/ ATU-80 tfc to MFA Cairo. Heavy QRM from enciphered speech on 10027. (DW2) Egyptian Emb Havana CUB 2230 ARQ w/ATU-80 tfc(ML2)
10027 Unid 2257 USB NATO Scrambled Voice Encipherment System. (DW2)
10111.2 FJY2: TAAF Port-aux-Francais KER 1000 ARQ-E3 96/400 w/pte msgs & solar bulletins to FJY3 Dumont d'Urville ATA (ML2)
10119.7 NATO Mil,??? 1433 MIL188 100bd MIL-188-141 ALE (MC)
10130 RBX73: Tashkent Meteo 0816 RTTY 50/1000 wx tfc (DG) RBX73: Tashkent Meteo 0936 RTTY 50R/1000 meteo tfc, synops (PB)
10162.5 YIL71: INA nx, Baghdad 1127 RTTY 50/400 NX in EE (MC)
10170.4 HSW63: Bangkok Meteo, Thailand 1723 RTTY 50/400 AAXX and TTAA WX for Tokyo, Hanoi, Bangkok (MC)
10177.7 prob RFFA: MOD Paris 2226 ARQ-E3 (192/330) w/idles. (DW2)
10180.5 British Mil,??? 1726 Piccolo-12 idle (MC)
10200 GFH: RAF Kai Tak HKG 2340 PICCOLO-6 w/svc msgs to VHC RAN Belconnen(ML2)
10205 RTP78: Irkutsk Meteo 0944 RTTY 50/1000 meteo tfc, synops (PB)
10253 NPN: APRA Harbour Meteo, Guam 1015 FAX 120/576 wx map (EW)
10257 NPN: APRA Harbour Meteo, Guam 1015 FAX 120/576 wx map (EW)
10298.6 HSW62: Bangkok Meteo, Thailand 1445 RTTY 50/170 // 10170.5. (JD2)
10301.8 Unid 1826 ARQ(?) 100/405 w/encrypted tfc. Code3 Gold id's as ARQ, but id doesn't sound quite right. Tried various modes but no joy. At end, morse code call "xx.." (my code isn't quite up to speed). (DW2)
10314 SNN299: MFA Warsaw, Poland 1155 POL-ARQ 100/170 5lgs, sign off at 1159 w/ CW (EW)
10348 Mossad 0715 ARQ-E 288 tfc w/BNDVB, on early today (ANEE)
10364 RFTJDA: FF LIBREVILLE 2340 ARQ-E 48/850 Idle. (WT)
10375 Russian Mil,??? 1135 CIS-14 96/500 crypto (MC)
10391.7 Egyptian Embassy, Tripoli 1530 ARQ 5LGs and ATU-80 "jg cfkydp kds kdjfkqor" (MC)
10423.3 YMA20: Ankara Meteo, Turkey 0804 RTTY 50/850 "ryryryryry yma20 yma20 10424 kc/s" marker (MC) YMA20: Ankara Meteo 1000 RTTY 50/850 (700Hz off) ryry & wx "yma20 10424kc/s (0500-1500) 3550kc/s (1500-0500)". (PB)
10467.4 Algerian Customs, Illizi 1606 COQUELET-8 26.7bd MSGs in FF from Ouargla. Algerian Customs, Ouargla 0755 COQUELET-8 26.7bd MSGs in FF to Illizi (MC)
10469 MFA Algiers 0715 COQUELET-8 26.67 same activity as on 9118.5 til 0745(ANEE)
10477 Unid Korean diplo, probably MFA 1415 RTTY 50/1000 w/plain-language Korean & 5FG msgs. (JD2)
10484.2 DOR: MFA Sofia 1012 RTTY 150/490 nx review in EE. (PB)
10490.1 Russian PTT,??? 1532 OQPSK 1280bps UNID System (MC)
10493.9 RFTJ: FF Dakar 0549 ARQ-E3 48/424 CdeV (RH2)
10504.2 Russian Mil,??? 0807 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10509.8 Unid: 1617 PACTOR 200/200 very weak (MC)
10536 CFH: CF Halifax 1841 RTTY 75/510 w/wx tfc. (DW2) CFH: Halifax Metoc, NS, 1915 FAX 120/576 "canadian forces metoc centre centre metoc des forces canadians" sig wave 12hr prog. (LC)
10537.7 Italian Diplo/Mil,??? 0759 UNID 1200bd UNID FSK System (MC)
10542.2 Russian Mil,??? 0800 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
10551.3 GFL 23: BRACKNELL METEO, G 1223 RTTY 75/425 meteo (SS)
10555 AXI34: Darwin Meteo, AUS. 1117 FAX 120/576 wx map (EW)
10557 V5G: Bucharest Romania 2030 ROU-FEC 164.5/400. Numerous press reports in what I assume is Rumanian. Off air at 2050. Have also logged V5G on 15833 and 16060. (ES)
10579.5 HMF46: KCNA Pyongyang 1031 RTTY 50/500 propaganda nx (DG)
10595 Unid: 0802 UNID 100/500 UNID FSK System, sync, cont, ACF=0 (MC)
10626 French Forces,??? 1535 ARQ-E 184.6/400 idle on betas (MC)

10643.5 SNN299: MFA Warsaw, Poland 1215 POL-ARQ 100/170 msgs in PP (EW)
10650.1 BJZ: Wuhan Meteo, China 0923 RTTY 75/425 wx information (EW)
10653.3 MKK: Royal Air Force, London 1410 VFT 5ch of 50/170 RTTY, "iryiry quick brown fox... test de mkk" (MC)
10655 SOUD station 0901 RTTY 75/510 5LGs "11177 70004 20960 23602 00919".(PB) poss RCO73: Yakutsk Meteo 0237 FAX (sounded like 90/576) w/ heavy QRM from adjacent LINK-11 signal. (DW2)
10686 9DM17: Teheran Meteo, Iran 1216 RTTY 50/425 wx information for locations in the middle east (EW)
10690 JWT: Norwegian Navy, Stavanger 1541 ARQ 100/850 MSGs in NN, selcal "QCVU", NATO RID "RYFWS" LBL1: Norwegian Navy, Bodo 1816 ARQ 100/850 MSGs and opchat in NN NATO RID "RXFNDA" (MC)
10749.5 C37A: Mossad/BND link 1025 RTTY 100/323 "is all good now zar zar" then in ARQ-E 288/323 encrypted tfc. (PB) C37A 1900 RTTY 100/300 clg 6MX8, QBF & RY test. (BF) C37A: somewhere in Israel 1830 RTTY 100/340 clg 6XM8, test tape only. (JD2)
10767 RGA: SOUD 1509 RTTY 75/500 5lgs (DG)
10787.9 Unid: 1915 POL-ARQ 100/340. At end of 5 figure msg sent 'end of file' (in EE!!) and Obdierz. Then sent 'dzieke i spadam na dzis k starc etc' and finally, '73 bybyby'.Went off air at 1922. Can anyone I/D please? (ES)
10798.3 RFLI: FF Fort De France, Martinique 1103 ARQ-E3 192/425 idle (EW)
10802 TAD: MFA Anakara 1110 FEC-A 144/400 diplo tfc (DG)
10825 German/Italian/Turk Diplo 0803 RS-ARQ 240.1bd 8 tone, tfc (MC)
10865 NAA: USN Cutler 2000 FAX 120/576 sending NAM / USN Norfolk wx fax product GOES-8 sat pic of USA "1945 03NO96 21C-4 3576 43371 ECO G". (LC)
10873.7 RFVI: FF Le Port, Reunion 2053 ARQ-E3 100/425 idle (EW)
10873.9 prob RFVI: FF Le Port Reunion 0231 ARQ-E3 (100/371) w/ idles (DW2)
10891.7 ASP32: Pakistani Embassy, Madrid 1439 TWINPLEX 100/140 Passport clearance MSGs in EE. ASP32: Pakistani MFA, Islamabad 1440 TWINPLEX 100/140 Press review in EE (MC)
10917.7 prob RFTJ: FF Dakar 1915 ARQ-E3 (48/353). (DW2) RFTJ: FF Dakar, Senegal 0928 ARQ-E3 48/425 idle (EW)
10955.3 prob RFTJF: FF Dakar 0225 ARQ-E3 (48/810) w/idles. (DW2)
10982.3 BAP40: Xinhua Beijing, China 0933 RTTY 75/850 EE nx on Asian events (EW)
11006.2 Russian Mil,??? 0809 MS5 12 tone vocoder (3000Hz pilot), tfc (MC)
11014 RPFN? UTC? seems to be either a mode C (12chnl tone pack) or multiple stations on narrow (170hz shift) around 11014 Mhz, caught this partial xmn in my M-7000 using FDM "C" mode chnl 2 @ 75bd: RRTNS U AR RBYJJALY, VTKCCIW IBTI RPTI DE RPFN RPFN RPFN, ZNR UUUUU, ZWC, ZBZ 444444444, INT ZBZ INT ZBZ INT ZBZ K K K K K, NNNN. RP's are the beginning NATO designators for Portuguese mil sta's, seems to be either a Portuguese only link or possibly a multi national tone pack. (RHB)
11017 RFPN: PN Lisbon 1502 RTTY 75/850 testing (DG)
11025 TJN: French Emb Beijing CHN 0920 FEC-A 192/850 w/5LGs (ML2)
11030 AXM34: Melbourne Meteo 1524 FAX (120/576) w/ end of chart.New chart at 1530. (DW2)
11039 DFZG: MFA Belgrade 0703 RTTY 75 mgs.(BvR) DDH9: Offenbach Meteo, G 1222 RTTY 50/850 wx information for European locations (EW)
11043.7 Unid RFTJD? 0701 ARQ-E3 192 idle.(BvR) RFTJ: FF Dakar, Senegal 0757 ARQ-E3 192/425 idle (EW)
11052 SPP???: Polish Embassy, Berne 0717 POL-ARQ 100/240 MSGs marked "m:berno" (MC)
11063 LZU2: Sofia Meteo, Bulgaria 1538 RTTY 50/400 AAXX WX for Bulgarian land stations (MC)
11074.5 MFA Moscow 1000 CROWD36 40.1 tfc w/embassies W. Europe til 1715 (ANEE)
11080 Sana nx RTTY 425/50 Nx EE (CK) SANA Damascus 1706 RTTY 50/386 w/AA nx. (DW2) YKP28: SANA Damascus, Syria 1800 RTTY 50/400 w/'Bulletin d'Informations' in FF. (RB)
11085 P6Z: MFA Paris, F 1014 FEC-A 192/425 5fgs (EW)
11107.5 Guardia Civil, Barcelona 1200 ARQ w/tfc zone chief and Barcelona chief colonel, telex abt expenses til 1300 (ANEE)
11110.5 RFLI: FF Fort De France, Martinique 2122 ARQ-E3 192/425 idle (EW)
11114 L4N: French Emb. Dakar 1341 FEC-A 192/398 L4N to RFGW(Paris) w/5LGs(PB)
11122 AFS: 1805 FAX 120/576 outstanding quality today wx charts //19365.(RT2)
11125 HZN: Jeddah Meteo 1114 RTTY 100/850 wx ttaa (PB)

11132.5 prob NPM: USN Pearl Harbor 0204 FAX (120/576) w/wx chart showing from 140E-130W. Second chart at 0210 showing 120E-110W. Decent quality on both charts w/ light fading. 2khz off of reported freq. (DW2)
11146.7 LIBERATOR: Philippine Mil sthn PHL 0840 ARQ w/sitreps (ML2)
11164.2 DOR: Sophia 1927 RTTY 75/400 msg. to embassy in Washington.(ED)
11173.5 P6Z: MFA Paris, F 1015 FEC-A 192/425 5fgs (EW)
11192 CSY: Santa Maria Air Azores 2328 RTTY w/ RY test tape(LVH)
11327.5 MFA Oslo 1130 TWINPLEX 100 very weak til 1200 (ANEE)
11327.9 OZU25: MFA Copenhagen, Denmark 1214 TWINPLEX 200/400 5fgs (EW)
11334.6 Egyptian MFA, Cairo 1441 ARQ ATU-80 MSGs to Embassy Muscat (MC)
11411.7 Unid: 1103 ARQ idled for a long time no tfc (EW)
11471 SNN299: MFA Warsaw, Poland 1201 POL-ARQ 100/170 circulars in PP then 5fgs (EW)
11483 P6Z: MFA Paris, F 1008 FEC-A 192/425 poor signal w/5fgs (EW)
11518.2 RFFA: MOD Paris France. 1742. ARQ-M2 200/340. Relaying tfc for RFFVAY FAF Bosnia to RFFBBYM French Army Bosnia Herzegovina Communications Division (NATO). Circuit FDX. (PS) RFFP: FAF Orleans, F 0917 ARQ-M2 200/425 idle (EW)
11539.2 MFA Bonn 0730 RS-ARQ 228.7 tfc w/embassy Addis Ababa, running ARQ-E 96 underneath ALE til 0800 (ANEE)
11540.1 Unid: 1031 RS-ARQ 228.4/170 cannot decode (EW)
11543 Russian Diplo,??? 1539 CROWD-36 tfc (MC)
11572 Unid: 1108 UNID 40.5/850 cannot decode (EW) (40.5bd is single chan. 81-81 - LOGS)
11631.7 RFTJ: FF Dakar, Senegal 1110 ARQ-E3 192/425 idle (EW)
11638 DDK8: HAMBURG MET 0902 RTTY 50/400 Marker and met tfc (SYNOP)(DW)
11680 BZP81: XINHUA BEIJING 1446 RTTY 75/400 Marker "ry's Xinhua Beijing" (DW)
12102.9 MFA Stockholm SWED-ARQ 100 qtc at 1200 (ANEE)
12130.5 MKK: London 1649 PICCCOLO Mk-6 Msg. to QSY (f3126)
12133.8 Unid: 1200 UNID 272.7/450 Unid Russian TDM system? cuba link? tfc til 1215 (ANEE)
12134.2 DOR: MFA Sofia 1052 RTTY 150/500 diplo tfc (DG)
12138 DOR: MFA Sofia BUL 1240 RTTY 75/500 clg Damascus & svce msgs (ML2)
12158 Unid SOUD station 0840 RTTY 75/500 msgs prefixed "11177 70060". (JD2)
12205.1 prob NBA: USN Balboa Panama 2045 RTTY 75/800 w/encrypted tfc. (DW2)
12212.5 YZI234:TANJUG BELGRADE 0853 RTTY 50/400 160hz high. EE press (DW)
12218 unid 0210 ARQ sp. msg., no ID. (ED)
12228.4 BZP62:XINHUA BEIJING 1449 RTTY 75/400 Marker " "ry's XINHUA Beijing". Idle marker (DW)
12305.5 GYU: Gibraltar 0238 PICCOLO Mk-6 QSY to fro 3969.(ED)
12381.6 Unid: 1430 ARQ UK CCF? also LSB voice comms til 1500 (ANEE)
12478 KCDK: M/T GUS W. DARNELL 1838 ARQ Wkg KFS w/QRG rpt. Login 11643 KCDK. (WT)
12480.5 UDVO: TKH YEVGENIY MRAVINSKIY 0953 ARQ admin from Km Golovkin to UGC.(HOOD)
12482 3FXI3: M/T HERO 1820 ARQ W/Amver/PR. 1316N 07212W. (WT)
12483 SQRQ: Kopalnia Halemba 0144 ARQ AMVER/PR via KPH. (AB2)
12484 PQAE: Frotabelem 1840 ARQ AMVER msg. (AB2)
12486.5 9VOP: NOL RUBY 2029 ARQ W/Jasrep. Login 78351 NRUB. (WT)
12489 UUKF: Igor Ilinskiy 1508 ARQ tfc to Nahodka w/selcall 55115. (AB2)
12490 SQDH: M/V Narwik II 1747 ARQ 31,920 DWT Polish-flagged bulk carrier (Polsteam/Oceantramp), w/AMVER/PR (SW Pass). (RB)
12492.5 MV Erati 1126 ARQ tlx tfc co/ch CUL opr+? (BvR)
12493.5 UKYV: TKH Boris Livanov 2014 ARQ 23,940 DWT Russian bulk carrier, w/ DISP-1 report from master KM Dolgalev. (RB)
12495 UDGE: TK MOSKOVSKIY FESTIVAL 0947 ARQ admin from Km Zapasnyy to UFN login 66150 UDGE (is ex UOLM).(HOOD) UFIN: TKH Ivan Tevosyan 1923 ARQ w/crew TG's to UGW. URTU: TK Marshal Bagramyan 2018 ARQ Ukrainian flagged 67,980 DWT tanker, w/crew TG's. UYVP: TKH Ivan Korobtsov 2106 ARQ Ukrainian-flagged 9,173 DWT general cargo vsl, w/admin TG's from master KM Yreev. (RB)
12497.5 BROO: M/V Jin Ji Ling 2050 ARQ Chinese-flagged 20,333 DWT bulk carrier (Guangzhou Maritime) w/tlx tfc, login 20151 BROO. (RB)
12508 WBD6589: Seacor Yankee 2032 ARQ Seacor Corp tug w/tlx re installation complete, believe this was sitor unit for Globe Net. (RB)
12509 WHRN: M/V MAHIMAHI 1755 ARQ Wkg KEJ w/ QRG rpt and Amver/PR. 3600N 12645W. (WT)

12510 C4XH: M/V Derby North 2010 ARQ 64,491 DWT bulk carrier, w/tlx to Valiant London, login 29323 DNORTH. J8EX5: M/V Racisce 2115 ARQ 9,835 DWT reefer w/list of Admiralty charts needed, login 26545 RACISC. (RB)
12512.5 UWFU: Viktor Kournatovskiy 1405 ARQ tfc to Mariupol w/selcall 67936.(AB2)
12557 TCPS: MV KAZIM GENC 1022 ARQ admin (eta Misurata) to TAH.(HOOD)
12561 DQFX: Choyang-Elite 1645 FEC 45,696 DWT container ship, passes 1428z posn 3343N/4837W, out of Savannah bound for Valencia, Spain; sends sports nx. (RB)
12562.5 UEPZ: RTMS Nikolay Afanasev 1655 RTTY 50/170 Russian 3,931 DWT super fishing trawler/super freezer, w/RYRY, DE to UIW, Kaliningrad rdo, sends crew TG's (KLD/UTF). LYEP: RTMKS Koralas 1820 RTTY 50/170 3,977 DWT Lithuanian stern ramped super trawler/super freezer w/RYRY/DE to LYL, & admin msg from 'Kapitonas Direktoruis Dafranskiy'. (RB)
12563 SHIP UNID/UFBE 0803 3SC 50/170 Tfc in 3sc via ?/rdo (DW) (UFBE is the BATM Maluvsyaii - LOGS)
12563.5 SHIP "LYNDI/SZRE" 1559 ARQ tfc in EE to Ostria Pireaus via Goeteborg rdo/SAB63. Poor copy. Freq low by 30 hz. SHIP UNID 1503 ARQ Selcalls QSPV - short exchange (qru?) w/ SAB63/Goeteborg Maritex(DW)
12564 UFBE: ADMIRAL KOLYSHKIN 0801 RTTY 50/170 crew TGs to UDK2.(HOOD)
12564.5 XU7BU: TKH DIBSON 0818 RTTY 50/170 admin from Km Strelnikov to St Petersburg (prob UHP5). This the fourth XU7.. series call hrd, nothing in ITU so far ??.(HOOD)
12565 UTXJ: TKH VERA KHORUZHAYA 1139 RTTY 50/170 admin from Km Pastuchenko to USU.(HOOD) UCBD: BMRT Kronshtadt 1727 RTTY 50/170 Russian 2,327 DWT long range/endurance large freezer/factory trawler w/RYRY/DE to UDK2, then sends tfc to BVTS Sevryba using hull#/ID MB-0356. (RB)
12566 SHIP "ZARECHENSK"/ENHI 1443 RTTY 50/170 Tfc in 3sc via Sevastopol/URL. Final qsl's/exchanges in cw (DW)
12567 URZP: TKH PETROKREPOST 0912 RTTY 50/170 msgs (in Eng) for Greece and Spain via UCE (ITU now gives as UCNC). UVJB: BORIS SYROMYATKINOV (MA-1832) 0937 RTTY 50/170 admin and BBXX to UDK2.(ITU now gives as UCUF), vsl also relaying tfc for RTMKS KAPITAN BOGOMOLOV (MA-1831) from Km Dolina. (HOOD) SHIP UNID 0813 RTTY 50/170 Tfc in 3sc via ?/rdo (DW)
12568 UCTQ: KOMANDARM SHCHERBAKOV (MA-0068) 0949 RTTY 50/170 crew TGs to UDK2. UFNH: BMRT VLADIMIR BRODYUK 1026 RTTY admin to UDK2.(HOOD)
12568.5 SHIP UNID 1505 RTTY 50/170 3sc tfc via ?/rdo (DW)
12571 UCMT: TKH VYACHESLAV DENISOV 0804 ARQ BBXX to UCE. login 54496 UCMT. UCNZ: TKH ARSENIY MOSKVIN 0841 ARQ admin from Km Zhilin to UCE. login 54786 UCNZ (is ex UZVH). UCNG: TKH YEVGENIY ONUFRIEV 0848 ARQ admin from Km Ivanina to UCE (is ex UTQZ). UHCO: TKH PIONER SEVERODVINSKA 0833 ARQ admin from Km Petrov to UCE. V3RE7: TKH LIDIYA 0823 RTTY 50/170 admin from Km Kruzhkovik to ALTEX SHIPPING via UHP5.(HOOD)
12572 LYFE: RTMS RETAVAS 1719 RTTY 50/170 crew TGs to LYL.(HOOD)
12572.5 UALU: NIS ATLANTIDA 0843 RTTY 50/170 admin from Km Gnilonedov to "KALININGRAD POISK" and wx rpts)(KKHH) to Murmansk via UIW. URVY: PB DAURIYA 0923 RTTY 50/170 admin from Km Samusev to UIW (ITU now gives as UBDF).(HOOD)
12574.3 SHIP UNID 1622 ARQ Off channel by +300 hz. End qso by time tuned (DW)
12577 GMDSS CHANNEL 0800 GMDSS 100/170 35 packets (mostly intership calling) in 12 hours (DW)
12579 NMF: USCG BOSTON MA, USA 2210 FEC high seas forecast (SS)
12579.5 YLQ: RIGA rdo 0940 ARQ crew TG to YLCT: TK KEMERI.(HOOD)
12580.5 KFS: Palo Alto rdo CA US 2151 ARQ w/callsign only CW marker(LVH) KFS: Palo Alto R 2146 ARQ 100/331 Calif trfc msgs. KFS: Palo Alto R, Calif 1530 FEC KFS sitor 1203 ships trfc (RT2)
12581 LSD836: Buenos Aires rdo Argentina ARQ and callsign only CW mkr(LVH)
12581.5 WLO: Mobile rdo AL US 2149 ARQ callsign only CW marker (LVH)
12583 HPP: Panama rdo Panama 2148 ARQ callsign only CW marker.(LVH)
12583.5 CBV: Valparaiso rdo Chile 2146 ARQ callsign only CW marker.(LVH)
12584 VIP: Perth rdo Australia 2144 ARQ callsign only CW marker.(LVH)
12584.5 WLO: Mobile rdo AL US 2143 ARQ callsign only CW marker.(LVH)
12585 NRV: USCG Apra Harbor Guam 2142 ARQ callsign only CW marker.(LVH)
12585.5 KPH: San Francisco rdo CA US ARQ callsign only CW marker(LVH)
12586.5 WLO: Mobile rdo AL US 2139 ARQ callsign only CW marker.(LVH)
12588 WNU: Slidell rdo LA US 2138 ARQ callsign only CW marker.(LVH)
12589.5 WCC: Chatham rdo MA US 2136 ARQ callsign only CW marker.(LVH) WCC:

Chatham R Mass 1420 FEC ships rfc,obs,amvers. (RT2)
12590 KPH: San Francisco rdo CA US 2135 ARQ callsign only CW mkr.(LVH)
EAD: Madrid 1500 FEC selcall 1078 all in SS. . (RT2)
12590.5 KLB: Seattle rdo WA US 2134 ARQ callsign only CW marker. (LVH)
12592.5 NMN: USCG CAMSLANT Chesapeake VA US 2132 ARQ. callsign only CW mkr(LVH)
12594 IDR5: Italian Navy Rome 1331 RTTY 75R/850 CARB availability "igj41/ igj42/igj43/idr2/idr3/idr4/idr5". (PB)
12596 WLO: Mobile rdo AL US 2129 ARQ callsign only CW marker. (LVH)
12598 WCC: Chatham rdo MA US 2128 ARQ callsign only CW marker. (LVH)
12599 WLO: Mobile rdo AL US 2127 ARQ w/ a callsign only CW marker.(LVH)
12600 KPH: San Francisco rdo CA US 2126 ARQ callsign only CW marker (LVH)
12601 ZSC: Cape Town rdo South Africa 2124 ARQ DE CW marker. (LVH)
12602.5 IAR: Rome rdo Italy 2123 ARQ callsign only CW marker. (LVH)
12604.5 WLO: Mobile rdo AL US 2121 ARQ callsign only CW marker. (LVH)
12605.5 FFT St Lys France 1317 ARQ ? new freq? (SZ)
12606 WLO: Mobile rdo AL US 2120 ARQ callsign only CW marker. (LVH)
12607.5 WNU: Slidell rdo LA US 2119 ARQ callsign only CW marker. (LVH)
12609.5 WLO: Mobile rdo AL US 2118 ARQ callsign only CW marker. (LVH)
12610.5 VCT: CCG Tors Cove NF Canada 2117 ARQ callsign only CW marker. (LVH)
12625.5 UCE: ARKHANGELSK rdo 1157 ARQ admin to UYRL: TKH PALANGA for Km Zommer, abt bunkering at Holtenau (ITU now gives as UCPM).(HOOD)
12632.5 UGC: ST PETERSBURG rdo 1100 ARQ free idles and CW Marker "UGC". (DW)
12647 LPD: General Pacheco rdo Argentina 2111 ARQ w/ a callsign only CW marker (LVH)
12648 AISIS: Unid 2105 station sending 'AISIS' w/ a wierd data burst between CW segments Anybody known who this is? (LVH)
12664.7 FUM: FN Papeete, Tahiti 1046 RTTY 75/850 ry de fum (EW)
12691 FUX: French Naval Le Port Reunion Islands 2041 RTTY w/ 75 baud RY test tape (LVH)
12730 NMC: USCG San Francisco CA US 2030 FAX 120/576 w/ significant wx chart (LVH)
12750 NMF: USCG Boston MA US 2027 FAX 120/576 w/ wx chart of New England (LVH) NMF: USCG Boston,Mass 2115 FAX 120/576 500mb 48hr forecast 12z 25nov96.very good quality. (RT2)
12805.6 NKW: Diego Garcia, 0219 FAX 120/576 very weak, USN fax.(ED)
12818 SAB63: Goteborg rdo, Sweden 1031 ARQ idle on betas (EW) SAB63: Goeteborg rdo Sweden 1624 ARQ w/ idler (LVH) SAB 63: GOETENBURG R, S 1600 ARQ telex tfc + selcals (SS)
12830 RKLM: ARKHANGELSK rdo 1302 CW tfc list and freqs 4343/6371.5/8580/ 12830, then into RTTY 50/170 for UFBY: IUZAS ALEKSONIS.(HOOD)
12857 6WW: French Naval Dakar Senegal 1618 RTTY 75bd RY test tape.(LVH)
12886.5 WLO: MOBILE rdo 1935 FEC Brief stn info. Tropical wx outlook (DW).
12965 USO5: IZMAIL rdo 0747 RTTY 50/170 admin to UYHH: TKH VOLGA for Km Vdovichenko.(HOOD)
13031.2 FUF: FN Fort De France, Martinique 1133 RTTY 75/850 ry, 10-count de fuf fuf (EW) FUF: French Naval Fort de France Martinique 1544 RTTY 75bd RY test tape (LVH) FUF: FN Fort de France,Mrt 1520 RTTY 75/829 Testing de FUF de FUF ry\sg 1-0-9. (RT2)
13050 UDK2: Murmansk rdo 1410 RTTY 50/170 w/circulars + "ry de UDK/UDK2 521.5/2557.5/4260/6439.5/13050/17020/19718 kgc". (PB)
13054 UIW: Kaliningrad rdo, CIS 1013 RTTY 50/170 msgs in RR (EW)
13059 EBA: Madrid Naval rdo, Spain 1001 RTTY 75/170 cq de eba navarea 3 marine msgs follow. (EW) EBA: SN MADRID 1003 RTTY 75/170 Marker "cq de EBA NAVAREA three NAVAREA tres". Nav warnings in EE and Spanish. EBA: SN MADRID 1715 RTTY 75/170 Nav warnings in Spanish (DW)
13358 German/Italian/Turk Diplo 1023 RS-ARQ 240bd 8 tone, in IRS mode (MC)
13360 German/Italian/Turk Diplo 1557 RS-ARQ 228.5/170 ALIS bursts (MC)
13375.6 German/Italian Diplo 0908 RS-ARQ 228.7/180 tfc (MC)
13376.5 Guardia Civil: unid location 1818 ARQ w/weak SS tfc. (RB)
13392 UNID: 1228 FEC-A 144/386 idle + op chatter til closeout (SS)
13395 CLP1: Havana 1535 RTTY 75/484 chatter in SS (SS)
13399 DFZG: MFA Belgrade 1441 RTTY 75/400 diplo tfc (DG) DFZG: MFA BELGRADE 1435 RTTY 75/R/400 Encrypted tfc (DW)
13419 6XM8: BND/Mossad link 1449 ARQ-E 288/156 encrypted tfc (PB)
13425.6 7RP40: Algerian Embassy, Brussels 1438 COQUELET-8v2 26.7bd to MFA Algiers QSX 13428.4kHz (MC)
13431.7 Egyptian MFA, Cairo 1527 ARQ ATU-80 to various embassies (MC)
13438.6 DGN43H1: PIAB Bonn, G 1100 FEC-A 96/425 frequency schedule (EW)

13444.2 RFQP: FF Djibouti, Djibouti 0703 ARQ-E3 100/425 idle (EW)
13446.7 MFA Islamabad, Pakistan 1216 TWINPLEX 100/170 encrypted msgs + 5fgs(EW) Pakistani Emb Doha QAT 1205 ARQ w/req to tx; MFA Islamabad PAK 1210 ARQ w/msgs to all missions abroad (ML2)
13465.2 RFFA: MOD Paris, F 0941 ARQ-M2 200/425 idle (EW) RFFA?: 1556 ARQ-E3 200/330 idle, previous logged ARQ-M2/200 (SS)
13486.9 OZU25: MFA Copenhagen, Denmark 1218 TWINPLEX 100/170 5fgs (EW) OZU25: Danish MFA, Copenhagen 0841 TWINPLEX 100/400 crypto header "rtl 25 :::::: ssswwwwsss" (MC)
13490 Unid: 0848 81-81 40.5/500 tfc (MC)
13499.5 Unid: 0852 UNID 100/2000 UNID FSK System (MC)
13506.7 Unid 1237 ARQ ATU-A tfc. (MFA Cairo and Egyptian Embassy here recently - LOGS)
13510 CFH: CF Halifax 1441 RTTY 75R/428 wx (PB) CFH: CF Halifax 1235 RTTY 75 wx. (BvR) CFH: CF Halifax 1949 FAX 120/576 w/wx chart. (DW2)
13525.5 unid 1112 PICCOLO Mk-6 idle.(ED)
13541 NNN0CVN: USS Briscoe 1155 ARQ mars grams.(BvR) Unid 1947 ARQ, end of msg and down to tone. (DW2)
13543.7 RFTJD: French Forces, Libreville 1805 ARQ-E3 192/363 (presumed) idling. (RB) RFTJD: FF Libreville, GAB 1920 ARQ-E3 192/340 idle (SS)
13545.5 PCW1: MFA Den Haag 1510 TWINPLEX 100 mgs to EST NUN MOS (Moscow? sc tvqf?) 1555 s/off. (BvR)
13550 U3H: Emb. France, Moscow 1420 FEC-A 192/850 "de u3h 2921420 znr uuuu ok le bonsoir a tous score 1455////2859 bye bonne fin de soiree" (PB)
13560 U3H, French Embassy, Moscow 0845 FEC-A 192 bd wkg RFGW. (JD2)
13560.5 AA ANKARA (TCY) 0955 RTTY 50/1200 Press in FF. Jammer? - sliding noise pattern through freq and other qrm. Press in EE. Frequency also unstable drift down in short period by 106hz (DW)
13570 Unid: 1001 UNID 200 CIS-SYSTEM, cannot decode (EW)
13570.9 DFN57L1: PIAB Bonn, G 1010 FEC-A 96/425 GG nx (EW)
13580 MKK: RAF London 1340 PICCOLO-6 w/svce msg to MTS Stanley FLK (ML2)
13585.9 MAP Rabat, Morocco 1003 RTTY 50/425 nx in Arabic (EW)
13593.7 RFFA: MOD Paris, F 0938 ARQ-M2 200/425 idle (EW)
13597 JMH4: Tokyo Meteo, Japan 0529 FAX 120/576 wx map (EW)
13645.2 MOD Paris, F 0941 ARQ-M2 200/425 idle (EW)
13658.7 MFA Cairo 1000 ARQ wkg/unid embassy in Asia/Pacific til 1045 (ANEE)
13665.3 6VU23: Dakar, SENEGAL 1700 RTTY 50/740 LSB of 13667.5 kHz. (JD2)
13669.2 6VU23: Dakar, SENEGAL 1700 FAX 120/576 on USB of 13667.5 kHz, frequency of this station varies greatly. (JD2)
13809.5 GYU: Gibraltar 1840 PICCOLO Mk-6 Operator msg.(ED)
13841.8 GXQ: RN London 1408 RTTY 50R/340 foxes (PB)
13846.7 RFQP: FF Djibouti, Djibouti 0703 ARQ-E3 100/425 idle (EW)
13850 SOUD Station,??? 1353 RTTY 75/500 5LGs on link "11177 00052 96001 17263 85132" (MC) SOUD station 1331 RTTY 75/490 "11177 00052 80104 03923" (PB)
13852 AND6:Embassy of Poland Madrid Spain 1046 POL-ARQ telegrams to Warsaw(MS)
13866 Unid: 1408 UNID 250/170 UNID ARQ System, ACF=75 (MC)
13871.9 Unid: 1245 ARQ6-98 100/250 5l tfc til 1300 (ANEE)
13877.2 Unid: 0721 UNID 50/85 cannot decode (EW)
13882.5 HAMBURG MET (DDK6) 0846 FAX 120/576 Hazy chart of N Sea (DW)
13886.7 RFFA: FF PARIS 0856 ARQ-E3 192/400 8RC Tfc in FF. Weak sync. Otherwise betas. Tfc to RFTJD on cct (I~H) possible (IAH) Paris to Libreville. Signal deteriorating (DW). RFFA: MOD Paris, F 0940 ARQ-M2 200/425 idle (EW)
13900 prob BMB: T'ai'pei Meteo 1925 FAX 120/576, sounds like satellite photo, but unable to get good read due to heavy fading.(DW2) BMF: Taipei Meteo, Taiwan 1008 FAX 120/576 wx map (EW)
13903 Mossad 0815 ARQ-E 96 wkg/BND on-line encryption til 1215 (ANEE) Unid 1451 ARQ-E encryption nothing readable bnd? (BvR) UNID: 1240 ARQ-E 96/170 enc tfc, also logged in 03/95 w/enc tfc (SS) FLA: MOSSAD SANA ? 0916 ARQ/E//96/I/200 8rc. Online encrypted tfc (DW)
13906 unid: Mossad Yemen ?? 1410 ARQ-E 96/200. Good sync on apparently encrypted tfc. At one point the stream seemed to apparently break out of encryption and sent the string STQ STQ STQ STQ STQ for about 2 lines then back to random characters. Klingenfuss lists this freq and mode as MOSSAD in Yemen to Tel Aviv. Was I really copying the MOSSAD station in Yemen here in New Mexico w/ such good sigs? Anybody have any other ideas ?? (DB) (yes you CAN, can anyWUN confirm?? - LOGS)
13909.5 Unid: 0858 UNID 100/2000 UNID FSK System (MC)

13915 UNID ICRC 1913 ICRC-PACTOR 200/200, w/tfc re: setup in Eastern Zaire and caring for unaccompanied children. Signed off w/chatter. No callsigns given. (DW2)
13920 AXM35: Melbourne Meteo 2002 FAX 120/576 w/wx chart. Some fading but decent read on chart. (DW2)
13921.2 UNID: 1940 RTTY 75/250 operator chatter in Italian til signoff + followed xm in Unid mode 300/250 (SS)
13933 MFA Sofia 1200 IRA-ARQ 100/120 tfc til 1215 also ita2 150 baud (ANEE) DOR: MFA Sofia, Bulgaria 1011 RTTY 150/500 msgs in Bulgarian (EW)
13933.3 Unid 1143 RTTY 150 E eur mgs ending w/ znn k znn k. (MFA Sofia here - LOGS)
13940.7 RFFA: FF PARIS ? 0925 ARQ-E3 200/400 8rc. Poor sync (DW) RFFA: MOD Paris, F 1041 ARQ-M2 200/425 idle (EW)
13946.4 MFA Tunis 1200 FEC wkg/various African embassies til 1830 (ANEE)
13947 ROM5: TASHKENT MET 0931 FAX 90/576 Chart of central Russian landmass(DW)
13950.9 unid: Havana 2145 RTTY ,50/500 Sp. nx from Prensa.(ED)
13951 HBD20: MFA Berne 1422 ARQ w/tg's to Swiss Embassy Washington DC from MFA Berne. Second tg at 1451, also from MFA to Washington. (DW2) HDB20: MFA BERNE, SUI 1304 ARQ 5lgs (multiple pages) (SS)
13953 poss P6Z: MFA Paris 1626 FEC-A (192/310) w/idles. (DW2) P6Z: MFA Paris, F 1043 FEC-A 192/400 idle (EW) P6Z: MFA PARIS 0949 FEC-A 192/400 P6Z calling O9B (Cairo). Continuous "O9B de P6Z slt vx je te qapsyr la 134 pile qtc ... int qrk int qru" (DW) P6Z: MFA PARIS 1104 FEC-A 192/400 Tfc in offline encrypt fm (RFGW). Tfc to O9B (Cairo) (DW)
13954.5 unid: Prob Swiss Embassy 1649 ARQ w/ 5L groups. Passed SELCAL BMOC at closing. Again at 1745 w/ 5L groups. Both times I came up on the signal in the middle of transmission. HBD20: MFA Berne 1505 ARQ w/tg's to Swiss Embassy, Havana.(DW2)
13956 Russian Navy 1200 81-81 sub broadcast? til 1245 (ANEE)
13956.5 MFA Tunis 1000 FEC wkg/various European embassies til 1300(sbrs mode) (ANEE) 5PO: MFA Tunisia 1950 FEC wkg 5RM. 1950 w/ ry's then"int qsa int qru int qru qrk kkkkkkkk". At 2009: "5555555555RRRRRRRRRRMMMMMMMMMM de 5555555555PPPPPPPPPPOOOOOOOOOO qsa et qrk nil nil nil qru qru qru bc ar ar ar" then QRT(DW2)
13961.5 HBD20: MFA Berne 1341 ARQ w/5L groups. (DW2)
13963 HBD59: SWISS EMB ANKARA ? 1114 ARQ Tfc in offline encrypt from weaker station. Both stations wkg single freq ops. Strong station changed to iss at 1211z w/ "no msg +? d 59 (HBD59/Ankara?) then qso ceased (DW)
13964 Russian 1300 1200 baud vocoder til 1345 (ANEE)
13965 ICRC Geneva 1230 cryptovox enciphered speech, wkg/unid African station til 1300 (ANEE)
13965.5 HDB: Unid Sui diplo 1215 ARQ 5fgs.(BvR) MFA BERNE 1216 ARQ Offline encrypted tfc from weaker station. No ID-style MFA Bern and embassy(DW) unid 1628 ARQ 5L groups and end of msg. No c/s given.(DW2)
13966.3 UNHCR Africa 1300 G-TOR 100 wkg/UNHCR Geneva and NY? 100bd and 200bd til 1315 (ANEE)
13966.4 ICRC Geneva 0600 PACTOR-I2 200 wkg/Kuwait, ICRC Islamabad wkg/ICRC Geneva and ICRC Bukavu Zaire wkg/ICRC Geneva, tfc fm Kuwait abt POWS; tfc fm Islamabad and Bukavu dealing w/ Zairean aid package and c-130 aid schedule from Nairobi (ANEE) Dushanbe Tajikistan 1027 PACTOR(i) International Red Cross telegrams to Geneva(MS)
13972.2 CLP65: Cuban Embassy Managua 2119 RTTY (75/200) w/ SS chatter re: msgs to be sent. At 2159, active w/ RTTY (100/200) w/ diplo tfc to MFA Havana. (DW2)
13976 SWISS EMB ? LOC 1355 ARQ Single freq ops. Offline encrypted tfc fm weaker station. MFA Bern? (DW)
13977 HBD88: SWISS EMBASSY ? LOC 1350 ARQ End of qso w/ "end of msg +? d 88 (HBD88/ ?emb) (DW)
13998 IFRCABJ**: IFRC, Azerbaijan 1121 PACTOR-I2 200/200 MSG in EE to IFRCGVA Geneva (IFRCBAK**: IFRC, Baku 1120 PACTOR-I2 200/200 MSGs in EE to IFRCGVA Geneva. IFRCKGL**: IFRC, Kigali 1122 PACTOR-I2 200/200 MSG in EE to Kinshasa and Goma (MC)
14356 GFL24: Bracknell Meteo, UK 0838 RTTY 75/400 METAR WX (MC)
14367 BZP54: Xinhua 0900 RTTY 75 EE nx.(BvR) BZP54: Xinhua Beijing, China 1026 RTTY 75/425 ry xinhua beijing (EW) BAF8: Beijing Meteo China 2315 FAX 120/576 w/ wx chart (LVH)
14377 Unid SOUD station 1510 RTTY 75/500 msgs prefixed "11177 70060". (JD2)

14381.2 British Mil,??? 0809 Piccolo-12, crypto (MC)
14386.2 Russian Mil,??? 1243 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14400 Unid: 0931 81-81 81/250 tfc (MC)
14404 Russian Navy,??? 1328 36-50 50/250 short msgs (MC)
14405.5 NATO Mil,??? 1245 UNID 2400bps UNID System, preceded by MIL-188-141 ALE. (MC)
14411.3 Unid: 1137 PACTOR 200/200 UNID sub-mode, tfc (MC)
14425.2 Base-3 2203 G-TOR 100/200 100 baud ascii, sp.,Base3 to Lubo,Rotax/Borax. Unknown user.(ED)
14428 Russian Mil,??? 0840 MS5 12 tone vocoder (3300Hz pilot), tfc on LSB(MC)
14429.6 Unid 1200 UNID 75.6/100 beamed at/in W. Europe til 1230 (ANEE)
14430.8 Unid 1200 UNID 75.6/100 beamed at/in W. Europe til 1230 (ANEE)
14430.8 unid 2149 G-TOR 100/200 100 baud ascii, sp. msg. re: permit and list.(ED)
14431.7 Chinese Diplo,??? 0756 4+4, tfc (MC)
14432.9 PEPE, TITO 1703 PACKET, 300/200 5 number groups, Sp. op comms (ED)
14438.2 FJY2: TAAF Port-aux-Francais KER 0400 ARQ-E3 96/400 w/msgs to FJY3(ML2)
14451.7 Egyptian MFA, Cairo 1449 ARQ ATU-80 MSGs to Embassy Rome QSX 10181.7kHz (MC)
14461.7 Pakistani Embassy, Moscow 0954 ARQ crypto to MFA Islamabad (MC) ASP32: Pakistani MFA, Islamabad 0952 TWINPLEX 100/140 MSGs in EE to Embassy Moscow (MC)
14473 Unid: 1101 UNID 200/425 cannot decode (EW)
14477 Unid: 1321 UNID 300.1/850 UNID FSK System, sync, cont, ACF=0 (MC)
14486 P6Z: MFA Paris, F 1015 FEC-A 192/425 idle (EW)
14497.5 CSY: Santa Maria air 0908 RTTY 50, mgs.(BvR) CSY: Santa Maria Air Azores 1745 RTTY 50/797 NOTAM/synopis wx. (RT2) CSY 66: SANTA MARIA AIR, AZR 2023 RTTY 50/850 meteo (SS)
14502.2 unid 1234 Unknown 110/170 strong 11 bit correlation, most 110 baud stations are random.(ED)
14508 Unid: 0810 UNID 75/250 UNID FSK System, sync, cont, ACF=0 (MC) D4B: 1925 RTTY 50/946 RYS TESTING D4B (RT2)
14523.8 SAM: MFA Stockholm 1210 SWED-ARQ w/msgs to SAM60 Islambad (ML2)
14534 AFA1NC: Unid MARS 1642 PACKET clg AFA2FK (Unid MARS) and AFA1AH (Unid MARS). (DW2)
14540 O9B: Fr Emb Cairo 1138 FEC-A 192, 5 fgs to RFGW.
14542.2 Russian Mil,??? 0811 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14558 N2G: French Emb San'a YEM 0850 FEC-A 192/425 w/5LGs; W3S: French Emb Islamabad 0800 FEC-A 192/850 w/5LGs (ML2)
14573 5AQ70: JANA Tripoli, Libya 1049 RTTY 50/425 arabic nx (EW)
14575 P6Z: French MFA, Paris 1504 FEC-A 192/400 idle (MC)
14581 Russian Navy 0830 36-50 36.1 bdcst til 0900 (ANEE)
14585.7 RFFLAD: FF N'Djamena, Chad 1055 ARQ-E3 200/425 idle (EW)
14597.7 Italian Diplo/Mil,??? 1309 UNID 1200bps UNID FSK System (MC)
14603 Russian Diplo,??? 0812 CROWD-36, tfc (MC)
14606.7 RFVI: FF Le Port, Reunion 1057 ARQ-E3 100/425 idle (EW)
14623 Russian Diplo,??? 0800 CROWD-36, selcal mode (MC)
14626.7 RFLI: FF Fort De France, Martinique 1059 ARQ-E3 192/425 idle (EW) RFLI: FN Fort de France 2220 ARQ-E3 192/354, (RT2) prob RFLI: FF Fort de France 2043 ARQ-E3 (192/310) w/idles (DW2)
14637.8 unid 2150 G-TOR 100/200 "Movil2" and "Base1", no tfc.(ED)
14639 Pol Emb Bagdad 1208 ARQ-POL 100 5fgs and clr mgs to Warsaw. (BvR)
14645.7 MFA Cairo, Egypt 1211 ARQ arabic msgs and 5fgs (EW)
14650 Unid: 0811 UNID 100/500 UNID FSK System, sync, cont, ACF=0 (MC)
14654.5 SPW: Warsaw rdo, Poland 1103 FEC tfc list, off at 1101 then cw marker (EW)
14670.2 RFFVAT: FF Incirlik, Turkey 1105 ARQ-M2 200/425 idle (EW)
14671 Unid: 1122 UNID 250/170 UNID ARQ System (MC)
14674.2 Russian Mil,??? 0803 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14675.7 unid: Panama 2356 ARQ 5lg's,to Haiti, Japanese Emb., selcal "ixxf".(ED)
14679 Russian Diplo,??? 0935 CROWD-36, tfc (MC)
14680 V5G: MFA Bucharest, ROU 1455 ROU-FEC 164.5/400 w/Rumanian tfc, encrypted text. (RB)
14681 Bucharest Romania 1245 RUM-FEC 164 bd Ministry of Foreign Affairs tentative, encrypted tfc, then into CW(MS) V5G: MFA Bucharest 1112 ROU-FEC 164.5/391 online encrypted tfc. (PB) V5G: MFA Bucharest, Romania 1106 ROU-FEC 164.6/400 circulars in Romanian (EW)
14692.5 JMJ4: Tokyo Meteo 2123 FAX 120/576 w/wx chart. Good copy w/ only

slight fading. (DW2) JMJ4: Tokyo Meteo, Japan 1108 FAX 120/576 wx maps (EW) JMJ4: Tokyo Meteo Japan 2300 FAX (120/576) w/ wx chart(LVH)
14694.7 Unid: 0818 UNID 301.1/800 Packet rdo UNID System (MC)
14699 YIX70: INA nx Agency, Iraq 1207 RTTY 50/425 arabic nx (EW)
14705 Russian Diplo,??? 0936 CROWD-36, tfc (MC)
14707 Russian Diplo,??? 0813 CROWD-36, tfc (MC)
14713 Unid: 1132 CROWD36 cannot decode (EW)
14713.5 MFA Moscow 0800 CROWD36 40.1 wkg/embassies cen. and W. Europe til 1030 (ANEE)
14718.2 Russian Mil,??? 1136 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14718.3 Unid: 1937 ARQ-E3 idle. (RT2) (prob FF Noumea, NCL - LOGS)
14732 RFVI: FF Le Port, Reunion 1205 ARQ-E 96/425 idle (EW) Polish Diplo,??? 1507 POL-ARQ 100/250 MSGs in PP (Flight details) (MC)
14742.7 MFA Cairo 1230 ARQ w/ATU-80 msgs to Abu Dhabi (ML2)
14742.9 N Korean MFA, Pyongyang 0900 RTTY 50/1000 5FGs ending "------ qru qru" (MC)
14763 A9M70: GNA Manama, Bahrain 1200 RTTY 75/425 nx in arabic (EW)
14784 SNN29: MFA Warsaw, Poland 0330 POL-ARQ 100/170 circulars in PP. possible press review sent afterwards. (EW)
14798.3 RFFVAE: FF Dhahran, Saudi Arabia 1139 ARQ-E3 192/425 idle (EW)
14801.7 RFVI: FF Le Port, Reunion 1110 ARQ-E3 100/425 idle cdev (EW)
14814.4 SAM: MFA Stockholm 0926 ARQ-SWE 100, mgs to Ankara.(BvR)
14815.6 unid 1521 144/200 not FEC-A, apparent random correlation, unknown.(ED)
14817.5 JPA(?) Japan(?) 0201 ARQ. Encrypted trfc., even line widths, no spaces. One of the Asian Interpol net, and probably JPA. This net hasn't propagated here for almost 2 years. Ionospheric optimism? (ED) INTERPOL, ??? 0840 ARQ crypto on selcal "IPIX" (MC)
14821 Russian Diplo,??? 0849 CROWD-36, tfc (MC)
14823 Russian Diplo,??? 0813 CROWD-36, tfc (MC)
14838 VVD56: Delhi Meteo IND 0840 RTTY 50/170 w/synops wx (ML2) Unid: 0305 RTTY 50/170 Unid met station (MS4) (poss VVD56 - Delhi Meteo - LOGS)
14842 ATP65: Delhi Meteo, India 0907 FAX 120/576 wx map (EW)
14848.5 MKK: London 0158 PICCOLO Mk-6 Msg. to "MUD", (ED)
14852 MKD: RAF Akrotiri 1210 PICCOLO-6 w/svce msg to unid sta (ML2)
14855.3 DOR: MFA Sofia 1049 RTTY 150 EE nx. (BvR) DOR: Bulgarian MFA, Sofia 1002 RTTY 150/500 Press review in Bulgarian (MC)
14868 Unid: 0812 UNID 75/250 UNID FSK System, sync, cont, ACF=0 (MC)
14874 HGX21: MFA Budapest, Hungary 0904 DUP-ARQ 125/170 5fgs (EW)
14890 unid 0155 RTTY 75/400 5 number groups,cud be meteo, "qtc 1 qtc 1".(ED)
14894.3 Bulgarian Diplo,??? 1005 UNID 362.3/500 UNID FSK System, ACF=10 (MC)
14903.4 SAM: MFA Stockholm 1307 ARQ-SWE 100/400 Swed. mgs.(ED)
14923 Xinhua nx Agency, China 0300 RTTY w/ann rdo shortwave EE nx transmissions to end Jan 1, 1997. (TK)
14926.7 prob RFTJ: FF Dakar 2036 ARQ-E3 (192/356) w/idles. prob RFTJ: FF Dakar 1851 ARQ-E3 (192/380) w/ idles. (DW2) RFTJ: FF Dakar, Senegal 0803 ARQ-E3 192/425 idle (EW) RFTJ: FF Dakar, Sen 1608 ARQ-E3 192/356 6ng/5ng/5lg (RT2)
14927.6 RFLI: FF Fort de France, Martinique 1059 ARQ-E3 192/425 idle (EW)
14932 Xinhua nx Agency, China 0300 RTTY w/ann re ending EE nx on shortwave rdo as of Jan.1, 1997. (TK)
14941.7 FJY3: TAAF Dumont d'Urville ATA 0350 ARQ-E3 w/msgs to FJY2 (ML2)
14946.2 Russian Mil,??? 0823 MS5 12 tone vocoder (3300Hz pilot), tfc (MC)
14959.7 RFTJ: FF Dakar, Senegal 1116 ARQ-E3 1902/425 idle (EW)
14960 prob RFTJ: FF Dakar 2033 ARQ-E3 (192/380) w/idles. (DW2)
14966.7 MFA Cairo 1300 ARQ wkg/embassy Moscow w/visa approvals for various Russian individuals (ANEE)
14970.5 SAM: Swedish MFA, Stockholm 1115 SWED-ARQ 100/400 5LGs to UNID embassy(MC)
14982.5 RBV76: Tashkent Meteo, CIS 1118 FAX 90/576 wx map (EW)
14990.7 MFA Den Haag 1200 TWINPLEX 100 wkg/Unid w/line tests (ANEE)
15016.7 Unid: 1207 ARQ idled for a long time. is this MFA Cairo? off at 1210utc (EW) (MFA Cairo has been logged here before - LOGS)
15652 SNN299: MFA Warsaw, Poland 1224 POL-ARQ 100/170 looks like a press review in PP (EW)
15701.7 EGYPTIAN EMB ?LOC 1109 ARQ Tfc in ATU80 then idling betas. Changes to irs then final sign off (DW) (Egyptian Embassy Manama, Bahrain has been logged here in the past - LOGS)

15720.5 British Mil,??? 1137 Piccolo-12, crypto (MC)
15729.1 PCW1: MFA The Hague, Netherlands 2220 TWINPLEX 100/170 5fgs (EW)
15735 Unid system 1206 296.3/400 same on 15035 at 1152 (PB)
15745.8 Unid: 1220 PACTOR unid, heavy qrm (RH2)
15769.7 Chinese Diplo,??? 0903 4+4, idle (MC)
15772 Polish MFA? 0819 RTTY 50/500 NX, MSG hdr "zczc zw00" ends "koniec prasy tkfv" (MC)
15781 USAF Roosevelt Roads (??) 1615 FAX (120/576) w/wx chart. (DW2) NHF/ UNID??: USAF AWS Roosevelt Roads, PTR or UNID?? 1545 FAX 120/576 unk chart polar / USA 30N - 90N, 1559z SINPO 55533 w/ distinct echo "lifted index analysis 12z wed 06 nov 1996" + NOAA logo + garble. (LC) AFS: USAF AWS Offutt NE US 2240 FAX (120/576) w/ wx chart real weak. (LVH) USN ROOSEVELT ROADS 1322 FAX 120/576 USAF AWS chart of USA. (DW)
15792 SPP341: Polish Embassy, Lagos 1117 POL-ARQ 100/250 MSGs in Polish to Warsaw headed "m:lagos" (MC)
15821.8 SAM?: MFA STOCKHOLM 1230 SWED-ARQ 100/400 real old-time SWED-ARQ. just caught "END OF msg" (RH2)
15822 SAM: Swedish MFA, Stockholm 1148 SWED-ARQ 100/400 5LGs to embassies (MC)
15822.9 SAM: Swedish MFA, Stockholm 1252 SWED-ARQ 100/400 MSGs in SS to Embassy Bissau (MC) SAM81: Swedish Embassy, Bissau 1253 SWED-ARQ 100/400 MSGs in SS to MFA Stockholm (MC)
15845.2 Unid: 1127 UNID 75/850 cannot decode (EW)
15854.9 Unid: 1223 PACTOR unid, unable decode (RH2)
15859.4 MFA Bonn 1200 RS-ARQ 228.7 wkg/embassy Madrid, Lisbon?, London? til 1415 (ANEE) German Diplo,??? 1119 RS-ARQ 228.7/170 tfc (MC)
15861.7 FF ?LOC 1351 ARQ-E 96/400 8rc Betas. Weak sync. No tfc (DW) (prob RFFX: MOD PARIS - LOGS) RFFX MOD Paris 0900 ARQ-E 96/400 w/tfc & svce msg (re distorted msg rcvd on cct XZI) to Bangui cct XXI (cct XXW prev copied this freq) (ML2) Unid: 1014 ARQ-E 96/425 idle (EW)
15861.9 SAM: MFA STOCKHOLM 1719 CLOVER unable decode. M7000 tunes to RTTY!(RH2)
15871 Russian Navy,??? 1313 36-50 50/250 tfc (MC)
15873 P6Z: MFA Paris, F 1046 FEC-A 192/400 5fgs (EW)
15878 3MA24: CNA Taipei, Taiwan 0915 FAX 120/576 text in Chinese (EW)
15898 P6Z: MFA Paris, F 1015 FEC-A 192/425 5fgs (EW)
15920 CFH: Canadian Forces Halifax 1830 RTTY 75/850 "NAWS DE CFH ZKR F1 2822 3287 4155 6254 8309 16567 AR". (WT) CFH: CF HALIFAX 1512 RTTY 75/850 Marker "NAWS de CFH zkr 2822 3287 4155 6245 8309 12386 16576 22185"(DW)
15920.4 CFH: CF Halifax 1724 RTTY 75/832 NAWS wx codes (RH2)
15940 Unid: 0711 UNID 40.4/425 cannot decode (EW) (40.5 is single ch 81-81 - LOGS)
15946.5 EAE220: MFA Madrid 1228 TWINPLEX 100, opr tlks (no id).(BvR)
15959 NAA: USN Cutler Maine 1609 FAX (120/576) w/satellite photo(DW2) USN CUTLER 1517 FAX 120/576 N Atlantic chart labelled "Product not available" (DW)
15961.7 RFLI: FF Fort de France 1233 ARQ-E3 idle (no id). (BvR)
15961.9 RFLI: FF Fort De France 1244 ARQ-E3 192/400 CdeV on BFL cid (RH2)
15969.8 Unid: 1728 UNID 75/850 unable decode. nato/cis? (RH2)
16014.2 RFQP: FF Djibouti, Djibouti 0837 ARQ-E3 100/425 idle (EW)
16017.4 MFA Bonn 0845 RS-ARQ 228.7 wkg/Europe 0845-0915 (ANEE)
16020.4 MFA Bonn 1200 RS-ARQ 228.7 wkg/same as 15859.4? til 1415 (ANEE)
16021.7 Unid 1438 ARQ ATU-A tfc. (BvR) (MFA Cairo logged here - LOGS) MFA CAIRO 1102 ARQ Tfc in ATU80. Constant mark between bursts. Opr chat and signoff (DW)
16025 BAF9: Beijing rdo, China 0937 FAX 120/576 wx map (EW)
16027.6 NPM: APRA Harbour rdo, Guam 0919 FAX 120/576 wx map (EW) NPN: USN Apra Harbour 1255 FAX 120/576 surface pressure chart (RH2)
16032 Unid: 1625. FEC-A 96/210. 5LGs off w/ BT GR141 IN N. Difficult sync. and moderate QRN from RTTY station 1 khz down. (PS)
16032.4 Unid: UTC? FEC-A 96/70 synched up in middle of msg, w/nvamv lursa agvbd, bt, gr683.(DB)
16041.7 AA3USA: US Army MARS, Fort Meade 1123 PACKET 300/200 uuencoded data to "AE1USA" (MC)
16045.2 Unid: 0921 UNID 100/850 cannot decode (EW)
16045.4 Unid: 1314 UNID 96/835 unable decode (RH2)
16046 AJE: USAF, Croughton, UK 1415 ISB B9W VFT 6028 on USB, voice on LSB.(JD2)
16051.7 ASP32: Pakistani MFA, Islamabad 0908 TWINPLEX 100/140 MSGs in EE (MC)

16055 Unid: 0839 UNID 75/850 cannot decode (EW)
16056 Unid 1234 RTTY 75 E Eur mgs gos gos znn r80/1 + 4 info gb 73 88 sk fm sq & e prelety na 7.12. (BvR)
16057.2 Unid: 0923 UNID 75/850 cannot decode (EW)
16062.7 Egyptian Embassy, Kampala 1140 ARQ 5LGs to MFA Cairo marked "jg wjykdk" (MC)
16066.7 MFA Cairo, Egypt 1020 ARQ 5fgs (EW)
16071.7 MFA Cairo 1333 ARQ eng mgs.(BvR)
16073.9 MFA Oslo 0930 TWINPLEX 100 wkg/Unid til 1230 (ANEE) MFA Oslo, Norway 0945 TWINPLEX 100/170 encrypted msgs (EW)
16077.8 RFFA: MOD Paris 1732 ARQ-E3 192/392 idling (RH2)
16087.7 prob RFVI: French Forces Le Port Reunion 1601 ARQ-E3 (100/334) w/ idles.(DW2) RFVI: FF LE PORT 1221 ARQ-E3 100/400 8rc. Seems to be struggling on circuit permanently giving"Rq Lf de_RFV" (DW) RFVI: French Navy Port De Reunion. 1752 ARQ-E3 100/300. Controle De Voie and relaying tfc for PARIS MOD. Circuit CRI. (PS) RFVI: FF St Denis, Reunion 0946 ARQ-E3 96/425 idle (EW) RFVI: FN Le Port 1318 ARQ-E3 100/424 idling (RH2)
16098 Unid Sui diplo? 1259 ARQ irs mode. Unid Sui diplo 1259 ARQ 1307 s/off w/out id.(BvR)
16101 SWISS EMB ?LOC 1249 ARQ Tfc in offline encrypt. End of msg. No ID(DW)
16102 HBD71: Sui Emb Ammam 1259 ARQ no msg +? hbd 71 +? s/off.(BvR) HBD20: MFA Berne, Switzerland 1053 ARQ 5fgs (EW)
16103.9 MFA OSLO, NORWAY 0840 TWINPLEX 200/170 idle (EW)
16106.9 SAM: MFA Stockholm 1551 ARQ-SWE 100/360/3 char block w/plaintext msgs.(DW2)
16109 SNN299: MFA WARSAW POLAND 1026 POL-ARQ 100/170 ENCRYPTED MSGS (EW)
16111 HBD20: MFA BERNE SWITZERLAND 1125 ARQ 5fgs(EW)
16113 HBD20: MFA BERNE SWITZERLAND 1127 ARQ 5fgs(EW)
16113.7 Unid 1344 ARQ ATU-A tfc. (BvR)
16118 MFA Berne 0845 ARQ wkg/embassy Tel Aviv til 0930 (ANEE) Unid 1300 ARQ irs mode.v. HBD20: MFA BERNE SWITZERLAND 0948 ARQ 5fgs (EW) HBD28: SWISS EMB KHARTOUM 1317 ARQ in irs mode. Finishes w/ "d 28" (HBD28) and off air (DW)
16119.9 MFA Berne 1500 ARQ wkg/embassy Brasilia til 1600 (ANEE) SWISS EMB ?LOC 1326 ARQ Tfc in offline encryption. Offair w/ no ID(DW)
16122.7 Unid: 1738 UNID 50/852 unable decode (RH2)
16124 HBD20: MFA BERNE SWITZERLAND 1023 ARQ 5fgs(EW) UNID 1559 RTTY 50/400 On line encrypted. Occ CW responses. Ends (in CW) "r qrx aka 0800 qtc r cours" (DW)
16125.2 RFQP: FF DJIBOUTI 1337 ARQ-M2 200/400 4rc. 2 chan tdm. Chan:A and Chan:B betas. Poor copy, no tfc seen (DW) RFQP: 1416 ARQ-M2 200/400 CdeV, ch. qpb (PB)
16133.1 P6Z: MFA PARIS FRANCE 1223 ARQ6-90 200/170 ENCRYPTED msg TO RIYAHD(EW)
16135 KVM70: Honolulu Meteo, Hawaii 0717 FAX 120/576 wx map (EW)
16136 BZR66: Xinhua Beijing, China 1026 RTTY 75/425 ry freq information (EW)
16136.3 BZR66: XNA Beijing 1321 RTTY 75/381 nx/EE (RH2)
16141.2 unid: 1753 Unknown 200/200 40 bit correlation, no decode, synchronous.(ED)
16149.5 MFA Moscow 0845 CROWD36 40.1 tfc til 0915 (ANEE)
16161.7 Unid: 1132 TWINPLEX 100/400 encrypted text. don't know who this is.(EW)
16165.2 RFFA: MOD Paris, F 0952 ARQ-M2 200/425 idle (EW) (supposedly MFA, not MOD - LOGS)
16165.3 RFQP: FF Jibouti 1742 ARQ-M2 200/375 CdeV prefixed "CO38". no CID (usually QPB) (RH2)
16182.5 NATO Mil,??? 1249 UNID 2400bps UNID PSK System, short bursts plus MIL-188-141 ALE pulses (MC)
16192 Unid: 1125 UNID 75/250 UNID FSK System, sync, cont, ACF=0 (MC)
16193.2 RFQP: FF Djibouti, Djibouti 0954 ARQ-M2 200/425 idle (EW)
16209.9 OZU25: MFA Copenhagen, Denmark 1031 TWINPLEX 100/425 encrypted text(EW)
16227.7 Unid 1310 ARQ-E 96 idle no tfc or id for hours. (BvR) Unid: 0855 ARQ-E 96/425 idle for hours. sends no tfc. (EW)
16227.8 Unid: 1750 UNID 96/375 tunes to ARQ-S4 & also ARQ-E. Poss FF Bangui?(RH2)
16231.7 Egyptian MFA, Cairo 1255 ARQ ATU-80 MSGs to many embassies (MC)
16242 N2G: French Emb San'a YEM 0950 FEC-A 192/425 w/5LGs;O9B: French Emb

Cairo 1230 FEC-A 192/425 w/5LGs (ML2) P6Z: French MFA, Paris 1343 FEC-A 192/400 Opchat in FF (MC)
16246.7 Pakistani Embassy, Ankara 1146 TWINPLEX 100/140 MSGs in EE marked "parep ankara". ASP32: Pakistani MFA, Islamabad 1231 TWINPLEX 100/140 MSGs in EE to Embassy Ankara (MC)
16260 P6Z: MFA Paris, F 1047 FEC-A 192/400 5fgs (EW)
16261.8 RFTJD: FF Libreville 1800 ARQ-E3 192/380 FM Batinfma Libreville to RFFCCC Centeradmi Lille et Al (RH2)
16270 Unid: 0957 CROWD36 cannot decode (EW)
16272 British Mil,??? 1127 Piccolo-12, idle (MC)
16274.8 Unid: 0912 PACTOR 200/200 UNID sub-mode (MC)
16276 Unid: 1033 CROWD36 cannot decode (EW)
16278.6 7RQ20: MFA Algiers 1246 COQUELET-8 26.6/200 diplo tfc (DG) MFA ALGIERS ? 1439-59 COQ/8 Brief bursts. Online encrypted - then quiet (DW)
16280.2 prob RFFA: MOD Paris 1537 ARQ-M2 (200/296) w/idles. (DW2) RFQP: FF Djibouti, Djibouti 0958 ARQ-M2 200/425 idle (EW)
16284.9 MFA Oslo 0845 TWINPLEX 100 tfc til 0930 (ANEE) OZU25: MFA Copenhagen, Denmark 1036 TWINPLEX 100/425 5fgs (EW) Danish Embassy, Riyadh 1042 TWINPLEX 100/400 MSGs to MFA Copenhagen. Danish Embassy, Dhaka 1041 TWINPLEX 100/400 MSGs to MFA Copenhagen. Danish Embassy, TelAviv 1938 TWINPLEX 100/400 MSGs to MFA Copenhagen. OZU25: Danish MFA, Copenhagen 1939 TWINPLEX 100/400 MSGs in DD to Cairo (MC)
16290.8 CLP1: MFA, Havana, Cuba 1623 RTTY 50/460 w/SS circulars, then minrex EE nx to 1742. (RB)
16302 Unid: 1138 CROWD36 cannot decode (EW)
16305.1 Unid: 1001 RTTY 75/425 5fgs (EW)
16305.5 French Diplo,??? 0913 TT2300b 100, idle (MC)
16315 Unid: 1010 UNID 50/425 cis-system? cannot decode (EW)
16317 unid 1456 RTTY 75/400 online encrypted tfc w/header as followed: "0046 249519 04000 900* zpzpzpzpzp" then encrypted tfc "0047 249519 14000 9020 zpzpzpzpzp" etc. etc. 1500 end of transmission w/"ltin 4ok tks 55 jok 737373 sksks", cud be Nairobi Meteo?? (PB)
16324.7 RFTJD: FF LIBREVILLE 1548 ARQ-E3 192/400 8rc Betas. 1604z svc cct ((JDJ) RFTJCS de RFTJD zfx TJD 472 a 473 (DW) RFTJD: FF Libreville 1430 ARQ-E3 192 idle (no id).(BvR) RFTJD: FF Douala, Cameroun 0828 ARQ-E3 192/425 idle (EW) (FF Libreville, Gabon - LOGS) RFTJD: Libreville, Gabon 1615 ARQ-E3 192 bd wkg RFTJ on CCT JDJ. (JD2) RFTJF: French Forces, Libreville, GAB 1629 ARQ-E3 192/342 idling, w/C de V at 1830. (RB)
16332.4 V5G: MFA Bucharest, Romania 1156 ROU-FEC 164.5/400 encrypted text (EW)
16335 FZS63: St Denis Meteo, Reunion 0937 RTTY 75/425 wx information. FZS63: St Denis Meteo, Reunion 0522 FAX 120/576 wx map (EW)
16340.1 ZKLF: Auckland Meteo, NZ 0901 FAX 120/576 wx map (EW)
16342.1 V5G: MFA Bucharest, Romania 0903 ROU-FEC 164.5/400 circulars in Rumanian (EW)
16343.3 V5G: MFA Bucharest 1320 ROU-FEC 218.2/395 online encrypted tfc.(PB)
16347 unid 1518 FEC w/plaintext Greek tfc. Greek mv net? (DW2)
16352 Unid: 0900 UNID 200/425 cannot decode (EW)
16352.2 Rumanian Diplo,??? 1022 ROU-FEC 218.3/400 crypto (MC)
16354.9 OMZ: MFA Prague, CZ 1142 RTTY 100/850 encrypted msgs (EW)
16357 OMZ: MFA Prague, CZ 0911 RTTY 100/425 circulars in Czech (EW)
16386.7 MFA Islamabad, Pakistan 1040 TWINPLEX 100/425 5fgs (EW) MFA Islamabad, Pakistan 1221 TWINPLEX 100/170 encrypted msgs+5fgs (EW)
16428 SNN299: MFA Warsaw, Poland 1204 POL-ARQ 100/170 circulars in polish. sign off at 1201 w/ cw (EW) KRN: Loc. Unk. 1736. RTTY 75/535. Suspected Russian Diplo/Intel station w/ 1 msg of 1 5LGs for recipient KRN.20db signal.(PS)
16483 P6Z: MFA Paris 0930 ARQ6-90 w/5LGs to NDJA N'Djamena (ML2)
16555.6 Unid: 0903 ARQ-M2/242 100/170 idle VFT group here can only get one channel to sync. (EW)
16688.5 UZXU: Geori Sevastopolya 1432 ARQ tfc. 3FFE6: Glory Mountain 1556 ARQ ETA SW pass. (AB2)
16690 C6OM3: unid 1559 ARQ tfc, selcall 70184. UBLA: Mekhanik Slauta 1612 ARQ tfc to Global Petroleum Co, USA. (AB2)
16694 HBFT: SILVRETTA 2310 ARQ W/Amver/PR. 2049N 12632W. Login 51102 HBFT.(WT)
16697 P3LZ2: M/V Arosa 1738 ARQ 30,499 DWT bulk carrier (HP Limassol), w/noon posn report to Buenaventure, login 29212 AROSA. SWKM: M/V Commander 1915 ARQ 123,180 DWT combination vsl, w/crew list tlx, login 26550 COMA. (RB) C6KR7: M/V WINTER MOON 1820 ARQ W/Amver tfc. Login 26125 WINMON. (WT)

16706 URRN: TKH URITSK 1145 ARQ crew TGs to USU. UYPG: TKH YURIY LEVITAN 1148 ARQ admin to USU.(HOOD)
16706.5 Unid: 1825 ARQ/CLOVER-II Wkg KFS in Clover II after login in ARQ. (WT)
16786.6 YLGO: MTR Senite 1240 RTTY 50/170 bunker requirements to Riga. KM Vingovator (10/96) (RH2)
16787.6 USEM: TH Petr Dutov 1240 RTTY 50/170 crew tg's to Odessa (UUI)(RH2)
16796.1 RTMS Ejsk 0727 RTTY 50/170 fish catch report to Novorossiysk (RH2)
16798.1 PNA Manila 1230 FEC nx/EE // 16791.6 (RH2)
16801.5 UYUX: TKH DMITRIY POLUYAN 1051 ARQ admin from Km Akimov to UUI. UYSJ: TKH GIUSEPPE DI VITTORIO 1133 ARQ crew TGs to UUI.(HOOD)
16801.9 ENGU: RTMA Alsu 1235 RTTY 50/170 wx rept to Sevastopol (URL) (RH2)
16802.1 TR434.93 MORE 1255 RTTY 50/170 crew tg's to Sevastopol (SWS) (RH2)
16802.5 EOSB: Kamchatskiy Proliv 1020 RTTY 50/170 posn. report to Sev'pol (URL). KM Grebench (RH2)
16803.1 EOZK: Molodya Gvardiya 1240 RTTY 50/170 posn. report to Sevastopol. KM Bondarenko (10/96) (RH2)
16804.5 GMDSS CHANNEL 0821 GMDSS 100/170 15 packets (intership calling)in 10 hours (DW)
16807 ZLA: Awaura rdo New Zealand 2034 ARQ w/callsign only CW marker (LVH)
16808 SPA: Gdynia R. 1250 FEC tfc/list (RH2)
16808.5 KLB: Seattle rdo WA US 1635 ARQ callsign only CW marker. (LVH)
16809 WLO: Mobile rdo AL US 2206 ARQ callsign only CW marker. (LVH)
16810.5 FFT: 0905 FEC St Lys rdo,France.Meteo Marine de Meteo France (MS4) FFT: St Lys Radio, F 1105 ARQ w/CW cw marker (EW)
16811 CBV: Valparaiso rdo Chile 2205 ARQ callsign only CW marker (LVH)
16811.5 A9M: Bahrain Radio, UAE 1102 ARQ w/CW cw marker (EW)
16812 WLO: Mobile rdo AL US 2204 ARQ callsign only CW marker. (LVH)
16812.5 NMC: San Francisco rdo, USA 0644 ARQ wx information to ship (NMC is USCG CAMSPAC, Point Reyes CA - Logs) NRV: US Naval sta, Guam 1109 ARQ w/cw marker (EW) (USCG Apra Harbor Guam - LOGS) NRV: USCG Apra Harbor Guam 2029 ARQ callsign only CW marker (LVH)
16813 UAT: Moscow rdo, CIS 1111 ARQ msgs in RR (EW)
16813.5 KPH: San Francisco rdo CA US 2028 ARQ callsign only CW marker (LVH)
16814 WLO: Mobile rdo AL US 2027 ARQ callsign only CW marker. (LVH)
16815 9VG83: Singapore rdo, Singapore 1121 ARQ msg to M/V HRGD (EW)
16816 ZSC64: Capetown rdo, SA 0915 FEC marine information (EW)
16816.5 NMC: USCG San Francisco CA US 2202 ARQ callsign only CW marker NMC: USCG CAMSPAC San Francisco CA US w/ ARQ and callsign only CW marker 2024. Not on 16816 kHz per some reference sources. (LVH)
16817 WCC: Chatham rdo MA US 2201 ARQ callsign only CW marker. (LVH) WCC: CHATHAM rdo 1245 FEC Wx forecast. On completion "= de WCC now ans ator 4 6 8 12 16 22 mhz qru? obs? amver? de wcc shiptlx = k". Revert to marker "WCC" and tuning burst (DW)
16817.5 KPH: San Francisco rdo CA US 2021 ARQ callsign only CW marker (LVH)
16818.5 9VG96: Singapore rdo, Singapore 0652 ARQ msg to the ambuja shakti(EW)
16820 KFS: Palo Alto rdo CA US 2020 ARQ callsign only CW marker (LVH)
16822.5 HPP: Panama rdo Panama 2019 ARQ callsign only CW marker. (LVH)
16824.5 LPD: General Pacheco rdo Argentina 2158 ARQ callsign only CW mkr(LVH)
16825 WCC: Chatham rdo MA US 2017 ARQ callsign only CW marker distorted audio. (LVH)
16826 WLO: Mobile rdo AL US 2157 ARQ callsign only CW marker. (LVH)
16828 WLO: Mobile rdo AL US 2156 ARQ callsign only CW marker. (LVH)
16829.5 KFS: Palo Alto rdo CA US 2015 ARQ callsign only CW marker (LVH)
16831.5 FFT: St. Lys rdo France 2014 ARQ callsign only CW marker. (LVH)
16833 WLO: Mobile rdo AL US 2012 ARQ callsign only CW marker. (LVH)
16833.5 IAR: Rome rdo Italy 2013 ARQ callsign only CW marker. (LVH)
16834.5 WNU: Slidell rdo LA US 2011 ARQ callsign only CW marker. (LVH)
16836.5 WLO: Mobile rdo AL US 2008 ARQ callsign only CW marker. (LVH)
16839.5 UFN: NOVOROSSIYSK rdo 0956 ARQ msg to UNZN: TKH NOVOKUBANSK for Km Lobov (ITU now gives as UAJL).(HOOD)
16842.5 KEJ: Hoolehua rdo HI US 2005 ARQ callsign only CW marker. (LVH)
16844 VCT: CCG Tors Cove NF Canada 1959 ARQ callsign only CW marker (LVH)
16846 UGC: ST PETERSBURG rdo 1101 ARQ free idles w/CW Marker "UGC".(DW)
16900 SAB: Goeteborg rdo Sweden 1940 ARQ w/ idler (LVH)
16912 GYA: Navy Whitehall, UK 1158 FAX 120/576 poor wx map (EW)
16914.7 FUX: FN Le Port, Reunion 0954 RTTY 75/50 faaa de fux qrl fux 12 (EW)
16922.2 RBSL: Navy Bombay, INDIA 0819 RTTY 50/850 ry sg bnr etc (EW)
16946.1 Unid: 0829 UNID 100/850 encrypted text (EW)

16951.5 6WW: French Naval Dakar Senegal 1927 RTTY w/ 75 baud RY test tape(LVH)
6WW: FN Dakar, Senegal 0836 RTTY 75/850 ry sg 6ww 6ww (EW)
16958 FUJ: French Naval Noumea New Caledonia 1925 RTTY 75bd RY test tape(LVH)
16960 CKN: Canforce Esquimalt BC Canada 1728 RTTY 75bd NAWS test tape. (LVH)
16961.5 FUF: French Naval Fort de France Martinique 1727 RTTY 75bd RY test tape (LVH)
16971 JJC: Tokyo Meteo, Japan 0841 FAX 120/576 wx map (EW) JJC: Kyodo Tokyo Japan 2233. FAX w/ transmission parallel to 17069.5 kHz (LVH)
17022.5 WLO: MOBILE rdo 1735 FEC Tropical wx outlook. Tfc list. Tropical storm MARCO storm-trac data (DW)
17069.5 JJC: Kyodo Tokyo Japan w/ very weak FAX 60/576 signal 2224. Picture really distorted look like newsprint. (LVH) JJC: Tokyo rdo, Japan 0910 FAX 60/288 Japanese text (EW)
17141 UFN Novorossiysk, RUS 1454 RTTY 50/170 msg., maritime..(ED)
17141.6 USU Maripol, RUS 1501 RTTY 50/170 msg. maritime..(ED)
17148.3 NMG: USCG New Orleans 2000 FAX 120/576 East Pacific and Western USA ice / unk chart w/ loadsa arrows and large explanatory panel on bottom left. (LC)
17151.2 NMC: San Francisco rdo CA US 1610. FAX 120/576 w/ wx chart nice strong signal (LVH)
17180 HWN: French Naval Paris France 1554 RTTY 75bd RY test tape.(LVH)
17181 LVA: Riga rdo, CIS 1115 RTTY 50/170 msgs to ships in RR (EW)
17411 Polish Embassy Delhi, India 1037 POL-ARQ 100/170 5fgs (EW)
17421.5 Unid 0930 ARQ unable to filter enough heavy QRN poss MFA Rome (ANEE)
17428 Unid: 0945 RS-ARQ 228.4/170 idle (EW)
17428.9 MFA Stockholm 0900 SWED-ARQ 100 wkg/embassy Rabat w/crime stats, political analysis til 0930 (ANEE)
17430 9VF209: Kyodo Press, Singapore 0934 FAX 60/576 Japanese text (EW)
17432 MFA BELGRADE (DFZG) 1410 RTTY 75/400 Encrypted tfc after "vcvcvc" and like. Then ry's and qtc list for 1430 broadcast (DW)
17438 MFA Bonn 0900 RS-ARQ 228.7 wkg/W. Europe til 1000 (ANEE)
17441.6 5YE: Nairobi Meteo, Kenya 0654 RTTY 100/850 wx information (EW)
17445.5 5YE: Nairobi Meteo 1242 FAX 120/576 wx fax (DG) 5YE: Nairobi Meteo, Kenya 0936 FAX 120/576 wx map (EW)
17450.5 EFG: unid 0935 VFT 3 ch FEC-A 192/170 w/RYs FOXES NIL on all channels (ML2)
17460 Russian Navy,??? 1311 36-50 50/250 tfc (MC)
17464.7 Egypt Embassy Delhi, India 1042 ARQ 5fgs to Cairo (EW)
17465 Unid SOUD station 1345 RTTY 100/500 msgs prefixed "11177 00099".(JD2) GYU: RN Gibraltar 0930 PICCOLO-6 testing w/foxes & figs (ML2)
17470 SOUD sta 0850 RTTY 75/500 w/5LGs link id 40078 (ML2)
17473.5 MFA Moscow 0900 CROWD36 40.1 tfc til 0930 (ANEE)
17497.5 4LX6: unid 1235 VFT 3ch FEC-A 192/170 /FOXES FIG COUNT RYs QTC then short crypto msg on ch 2 (ML2)
17590 HZN: Jeddah Meteo, Saudi Arabia 0657 RTTY 100/850 wx info (EW)
18005.7 Cairo Egypt 1444 ARQ Ministry of Foreign Affairs selcalling embassy Nairobi KKXT(MS)
18007.5 Unid: 1036 UNID 8 tone MFSK System, tone spacing 100Hz (MC)
18037.2 Japanese Emb Damascus SYR 0930 ARQ testing w/RYs foxes fgs & ET(KV) RY (ML2)
18042 Unid: 1106 PACTOR 200/200 UNID sub-mode (MC)
18055 DFZG: MFA BELGRADE 1433 RTTY 75/400 Encrypted tfc (DW)
18060 AXI36: Darwin Meteo, AUS 0848 FAX 120/576 wx map (EW)
18066.4 ICRC,??? 1048 PACTOR 200/200 Opchat in EE (MC)
18092 Brasilia Brazil Embassy of Poland 1458 POL-ARQ number groups to MFA Warsaw(MS)
18156.7 Egyptian Emb Kuala Lumpur MLA 1210 FEC w/ATU-80 msgs (ML2)
18180.6 UNID 0903 COQ/8 Appears end of qso w/ abbreviated FF "alors qru ar bc" (DW)
18220 JMH5: Tokyo Meteo, Japan 1017 FAX 120/576 wx map (EW) JMH5: Tokyo Meteo Japan 2215 FAX (120/576) w/ wx chart(LVH)
18235.3 Aid Organization, Zaire 1356 PACTOR 200/200 MSGs in FF (MC)
18237 BAF33: Beijing Meteo, China 0519 FAX 120/576 wx map (EW)
18238.1 ZRO4: PRETORIA MET 1514 FAX 120/576 End of surface analysis. LSB of 18240 (DW)
18247 SOUD sta 0930 RTTY 75/500 w/5LGs link id 10079 (ML2)
18261 GFE24: BRACKNELL MET 0921 FAX 120/288 Sea state charts. Weak copy due skip (DW)

18270.5 SWISS EMBASSY ?LOC 1131 ARQ in irs mode. Then "no msg +?" and off air (DW) HBD20: MFA Berne 1230 ARQ over 30 mins of 5fg's (RH2)
18276.7 Unid: 1320 ARQ Opchat in Portuguese (MC)
18283.5 HBD20: MFA Berne, Switzerland 1019 ARQ 5fgs (EW) HBD22: MFA Berne Switzerland 0300 ARQ 5lgs (MS4) (Swiss Embassy, New Delhi - LOGS)
18285 MAP RABAT 1210 RTTY 50/400 Press in FF then in EE (DW)
18295 CNM: MAP nx, Rabat 1322 RTTY 50/400 NX in EE (MC)
18325 8WA23: Indian Emb Beijing CHN 0900 RTTY 50/170 clg 8WD14 New Delhi w/ QRU (ML2)
18332 SOUD Station,??? 0826 RTTY 75/500 5LGs on ID "11177 10042 69347 14591 04559" (MC)
18343.1 MFA Lisbon 1223 ARQ 381 X 5lg's for Kinshasa Emb. NIL in wunlogs this year (RH2)
18363 P6Z: MFA Paris 0740 ARQ6-90 200/400 w/5LGs to KHTM Khartoum (ML2)
18365.3 Unid: 1220 UNID 96/835 unable decode. nil in wunlogs this year (RH2)
18380.2 FN Brest 1328 ARQ-E3 100/367 "FM cancel Brest to RFVIGRN Garonne" info RFLVM Toulon (RH2)
18411.5 MFA Jakarta, Indonesia 1015 ARQ-S/5 96/170 msgs to various embassies(EW) Indonesian MFA, Djakarta 1251 FEC-S 96/170 idle (MC)
18422.2 CLP22?: 1311 RTTY 75/517 Listed Cuban Emb. Hanoi. 2 sections of 5lg's (RH2)
18432 SOUD Station,??? 1325 RTTY 75/500 5LGs (MC)
18441.2 JMH5: Tokyo Meteo, Japan 1021 FAX 120/576 wx map (EW) JMJ5: Tokyo Meteo Japan 2200 FAX (120/576). w/ wx chart (LVH)
18458 CLP1 La Habana Cuba 1523 RTTY 46/ Ministry of Foreign Affairs circular de prensa no. 526 para todas las misiones(MS)
18461.5 PCW1: MFA Den Haag 1055 ARQ 5 fgs.(BvR)
18464 Unid: 0957 CROWD36 cannot decode (EW)
18487.9 MFA Oslo 0930 TWINPLEX 100 wkg/embassy Rabat, Dar Es Salaam? til 1030 (ANEE)
18493.9 Unid: 1308 UNID 100/852 strong sigs. nil in wunlogs this year (RH2)
18527 MFA Paris 0930 ARQ6-90 200 wkg/unid embassy til 1100 w/5l tfc (ANEE)
18529.3 Algerian Embassy, Hanoi 1146 COQUELET-8 13.3bd MSGs in FF to MFA Algiers (MC)
18594 Unid 1940 more scrambled comms. (MF2)
18597.5 Spanish Embassy, Kinshasa 1202 TWINPLEX 100/140 10LGs to MFA Madrid headed "embajada kinshasa" Spanish Embassy, Luanda 1200 TWINPLEX 100/140 10LGs and MSGs in SS to MFA Madrid (MC)
18597.6 EAE220: MFA Madrid 1300 ARQ brief crypto startinG "LU DECIMO" ending "GOLNAACL" (RH2)
18681 Russia Meteo, CIS? 0521 FAX 120/576 wx map (EW)
18760 P6Z: MFA Paris, F 1500 FEC-A 192/400 op chat, DE P6Z. (RB)
18841.1 UUUT: Ivan Burmistrov 1002 RTTY 50/170 crew tg's to Kerch (RH2)
18846.7 Egyptian MFA, Cairo 1116 ARQ ATU-80 MSGs to Kuala Lumpur "wlkdkdjylf" (MC)
18941.5 MFA Algiers 1015 COQUELET-8 wkg/unid til 1200 (ANEE)
18956.1 MFA Paris? 1252 UNID maybe ARQ6-90, unable decode, wunlogs say MFA Paris (RH2)
18966.7 RFHJ: FF Papeete, Tahiti 0350 ARQ-E3 96/425 idle (EW) RFHJ: FN PAPEETE 1900 ARQ-E3 96/400 Idle. (WT)
19028.7 7RV20: Algerian Embassy, Moscow 0944 COQUELET-8 13.3bd MSGs in FF to MFA Algiers hdr "vci off moscou" (MC)
19031.7 MFA Islamabad 1030 TWINPLEX 100 wkg/Ghana til 1100 weak, QRN (ANEE) Pakistani Embassy, Riyadh 1418 TWINPLEX 100/140 MSGs to MFA Islamabad (MC)
19110.9 Polish Embassy, Harare 1401 POL-ARQ 100/200 Claris MSGs in Polish to SNN299 (MC)
19140 Unid: 0809 CROWD36 cannot decode (EW)
19141.6 7RY50: Algerian Embassy, Dakar 1330 COQUELET-8 27.7bd MSGs in FF to MFA Algiers hdr "vci off dakar" . Algerian Emb, Nouakchott 1328 COQUELET-8 26.7bd MSGs in FF to MFA Algiers hdr "off nouakchott" (MC)
19141.7 Algerian MFA 1217 COQUELET-8 26.6/200 diplo tfc (DG)
19156.5 Unid: 1110 ARQ w/gps of 5 mixed ltrs & figs after WWWWW,to/from fields blank,operator chat in FF & EE (ML2)
19181.7 Portuguese E, Kinshasa 1237 ARQ clg selcal "ZPZP" then crypto. Portuguese MFA, Lisbon 1237 ARQ crypto after "/////" to Embassy Kinshasa (MC)
19216.7 RFLI: FF Fort de France,Mrt 1715 ARQ-E3 95/393 presumed. RFLI: FF Fort

de France,MRT 2202 ARQ-E3 96/349 (RT2)
19218.8 Unid: 1030 RTTY 50/850 msg in unknown language (EW)
19220 Unid: RTTY 50/850 Press service in unid language. All msg has "Bodogen" in the header. (North Korea MFA - LOGS) (MS4)
19226.4 MFA Bonn 1030 RS-ARQ 228.7 wkg/Africa til 1430 (ANEE) Unid:1045 UNID 225/170 UNID Packet rdo System (MC)
19354 SOUD sta 0900 RTTY 75/500 w/5LGs link id 80038 (ML2)
19363 USAF Roosevelt Roads (??) 1636 FAX (120/576) w/wx chart. (DW2)
19365.3 DOR: Bulgarian MFA, Sofia 0949 RTTY 150/500 Industrial NX in Bulgarian (MC)
19400 VVD69: Delhi Meteo, India 0707 RTTY 50/170 wx information (EW)
19502 V5G: Romanian Embassy, Lagos 0954 ROU-FEC 164.5/400 MSGs in RR hdr "ambasada romaniei - lagos" (MC)
19635 P6Z: French MFA, Paris 1305 FEC-A 192/400 5LGs to many embassies (MC)
19685.5 WLO: Mobile rdo AL US 2152 ARQ w/idle and callsign only CW mkr(LVH)
19693 UGC: ST PETERSBURG rdo 1103 ARQ free idles w/CW Marker "UGC".(DW)
19699.1 UFN: Novorossissk R. 0952 ARQ football scores (RH2)
19707 UXN: Arkhangelsk rdo, CIS 1042 FEC msgs in RR wtsca (EW)
19734.5 UGC: ST PETERSBURG rdo 1119 ARQ free idles w/CW Marker "UGC".(DW)
19747.5 6VU79: DAKAR MET 1442 RTTY 50/400 Met tfc. Then "fin diffusion afmet cinq" (end of transmission AFMET5). Marker "cq de 6VU23/73/79" (DW)
19836.8 Unid: 1009 ARQ 100/700 idle in IRS mode (MC)
19858 NPN: APRA Harbour Meteo, Guam 1014 FAX 120/576 wx map (EW)
19860 MGJ: Navy Faslane, Scotland 0841 RTTY 75/850 O2D O3B etc (EW)
19862 NPN: APRA Harbour Meteo, Guam 1019 FAX 120/576 wx map (EW)
20034.1 CLP: MFA Havana, Cuba 1050 RTTY 75/400 circulars in Spanish (EW)
20215 Unid: 1055 UNID 200/425 cannot decode (EW)
20302 NKW: Diego Garcia rdo, Diego Garcia 0517 FAX 120/576 wx map (EW)
NKW: USN Diego Garcia 0940 FAX 120/576 good wx chart. not hrd much this freq. of late! (RH2)
20340.2 Unid: 0930 RTTY 75/517 5lg's + 64's, no id & not in wunlogs this year. CIS/CUB? (RH2)
20420.6 German/Italian/TurkDiplo 1242 RS-ARQ 228.5/170 tfc (MC)
20470 Unid: 0957 UNID 200/425 cannot decode (EW)
20556.5 RFGW: MFA Paris, F 1226 FEC-A 192/425 5fgs and idle (EW)
20556.6 P6Z: MFA Paris 1214 FEC-A 192/400 diplo tfc (DG)
20600.2 MKK: RAF London 1230 RTTY 75/852 crypto (RH2)
20724.2 CTV: Portuguese Navy, Monsanto 1419 RTTY 50/400 "the quick brown fox... ryry sgsg test de ctv" (MC)
20837.3 Unid: 1246 RTTY 75/869 perfect tune to RTTY. Gbge on screen (RH2)
20854.7 MFA Havana or Cuban Embassy 1533 RTTY 75/209 "396/embacuba 199 grs/ minrex 202 e inmediata" followed by 5FGs, ended w/"#fin del cable"(PB)
22377.5 KFS: Palo Alto rdo CA US 2149 ARQ w/idle and c/s only CW mkr(LVH)
22382.5 KPH: San Francisco rdo CA US 2148 ARQ w/idle and c/s only CW mkr(LVH)
22383.5 WLO: Mobile rdo AL US 2147 ARQ w/idle and callsign only CW mkr(LVH)
22389.5 NMO: USCG Honolulu HI US 2146 ARQ w/idle and c/s only CW mkr (LVH)
22395 KPH: San Francisco rdo CA US 2144 ARQ w/idle and c/s only CW mkr(LVH)
22403 WLO: Mobile rdo AL US 2141 ARQ w/idle and callsign only CW mkr (LVH)
22412 WLO: Mobile rdo AL US 2139 ARQ w/ idler and callsign only CW marker(LVH)
22447 FUV: FN Jibuti 1206 RTTY 75/850 "vvv de FUV" (PB)
22461 FUJ: French Naval Noumea New Caledonia 2141 RTTY 75bd RY test tape(LVH)
FUJ: Noumea rdo, New Caledonia 0554 RTTY 75/850 ry line count (EW)
22537 FUF: FN Fort de France 1645 RTTY 300/1000 ?? rys/sgs/de FUF. (RT2)
22542 JJC: Tokyo rdo, Japan 0634 FAX 120/576 Japanese text (EW)
22544 FUM: French Naval Papeete Tahiti 2125 RTTY 75bd RY test tape (LVH)
22544.8 Unid: 0635 UNID 100/850 encrypted text (EW)
23202 NATO Mil,??? 1422 Link-11 tfc (MC)
23370 HZN50: Jeddah Meteo 1420 RTTY 100/850 wx tfc (DG)
23522.9 JMH6: Tokyo Meteo, Japan 0528 FAX 120/576 wx map (EW)

=MARITIME=

422 FFB: BOULOGNE RADIO 1922 CW Gale warning in FF. (DW)
1680 LGL: Floroe Radio 1814 USB nav wrng no tfc for foreign ships and nav mgs (BvR)
2182 MPBF4: Grampian Orcades 1820 USB clg Stonehaven radio. MV Fuiter 1702 UWB clg mv Alfons Slechter no reply. 9HYO4: Unid 1743 USB clg Farsund radio. GND: Stonehaven radio 1809 USB ww mv Shetland Service qsy chnl

I. DAN: Norddeich radio 1845 USB ann 2614. OXZ: Lyngby radio 1906 USB ann 1734 1758. Yarmouth cg 1450 USB clg unid for radio ck. PEYH: FV Jacob 1858 USB calling Scheveningen qsy chnl A. Swaney cg 1847 USB clg unid lifeboat. PBK: Ijmuiden rescue 1634 USB mgs abt eprib on 121.5mHz 13.17 utc pos 51.41.2n 002.31.2e. GND: Stonehaven radio 1826 USB ww Saint Luck USB qsy chnl K. GND:Stonehaven radio 1203 USB ww Shetland Service qsy chnl K. EAC: Tarifa radio 0534 USB ann tfc lst. Palma radio 0534 USB ann tfc lst 1755. IDF: Messina radio 0534 USB ann. OXZ: Lyngby radio 0534 USB ann gale wrng 1734 1758. IAR: Rome radio 0540 USB ann. GWAS: MV Star Aries 0543 USB clg Humber radio qsy chnl R. FFU: Brest le Conquet radio 0550 USB pan pan mgs. LZG: Farsund radio 0553 USB ann gale wrng. DHS: Rugen radio 0558 USB ann gale wrng 2775. VCS: CCG Halifax 0603 USB ann. SDJ: Stockholm radio 0603 USB ann gale wrng. OFJ: Helsinki radio 0604 USB no tfc for foreign ships. OFH: Mariehamn radio 0609 USB no tfc for foreign ships. GGNV: MV Arco Avon 0615 USB clg humber radio qsy chnl Q. FFM: Marseille radio 0619 USB fr ann. PBK: Ned CG 0651 USB ann gale wrng 1713 1890. EAIE: MV Enol 1705 USB clg Valencia radio reply. IPB: Bari radio 1816 USB ann gale wrng. LGQ: Rogaland radio 1842 USB clg lhyw. IBAR: 1851 USB clg Genova radio. [M/V ARNO - LOGS] IBAI: Mv Durum 1518 USB clg Brest radio. IPA: Ancona radio 1603 usb clg Civitavecchia radio no reply. Atlantic Guardian 1608 USB clg Stonehaven radio. IQX: Trieste radio 1634 USB ann gale wrng. ICB: Genova radio 1647 USB ann nav wrng. LGQ: Rogaland r 1735 USB ann nav wrng 1692. LGL: Floro radio 1813 USB ann 1680 VCP: CCG St Lawrence 2304 USB ann. GGNV: Mv Arco Avon 1140 USB clg Humber radio qsy chnl Quebec. ICMS: Mv S.Caboto 1527 USB clg Bari Radio. GKZ: Humber radio 1620 USB ww Semi 2 qsy chnl C. CZ6463: Jim Kilibock 1621 USB clg Humber qsy chnl Q. MV Viking Supporter 1624 USB clg Stonehaven qsy chnl K. IRPY: Mv Casablanca S 1856 USB clg Porto Torres radio. ICP: Trapani r 2107 USB ann gale wrng. DAN: Norddeich radio 0534 USB ann. (BvR) Stephenville Coast Guard Radio, Newfoundland.0705 USB WX warnings (CM) LKHO3: MV LINDO 0757 USB clg Humber Radio for pp.(HOOD)

2775 Ruegen Radio: 1933 USB SECURITE transmission containing navigation warnings in EE and GG.(CK)

4071 3ESE9: M/S Sensation 0019 USB Carnival Cruise Lines 70,367 GWT cruiseship, clg/wkg WOM for R/T tfc holding for ship. (RB)

4113 C6KM: M/S Holiday 0509 USB Carnival Cruise Lines 46052 GWT, 1452 pass cruiseship, concluding R/T w/KMI. (RB)

4125 WBH29: Kodiak, Ak, USA 0300 USB and again at 1700 w/local wx. KCI95: Cold Bay, Ak, USA 1830 USB & again at 0530, w/wx. KCI94: Nome, Alaska, USA 2030 USB w/wx. KWL38: KODIAK 0300 USB temporarily replacing WBH29 Kodiak, also at 1700 daily. (AM4)

4182 XSM: Xiamen Radio PRC CW Marker (MS5)

4183 XSW: Kaohsiung Radio Taiwan CW Marker (MS5)

4210 XSY: Hualien Radio Taiwan CW Marker (MS5)

4225 XFM: Mananillo Radio Mexico 0738 CW CQ marker (LVH) XFM: Manzanillo Radio Mexico CW Marker (MS5)

4226 VAI: Vancouver CG Radio Canada CW Marker (MS5)

4228.5 VIM: Melbourne Radio, AUS. 1011 CW cw marker (EW) VIM: Melbourne Radio AUS CW Marker (MS5)

4235 VAI: Vancouver CG Radio, CA 1020 CW cw marker (EW) VAI: Vancouver CG Radio BC Canada CW CQ marker then worked 3FA.5 (LVH) VAI: Vancouver CG Radio BC Canada CW Marker (MS5)

4241.5 LGW: Rogaland Radio Norway 0746 CW CQ marker (LVH)

4245 VIS: Sydney Radio, AUS. 0931 CW (EW)

4247 KPH: San Francisco Radio, USA 1028 CW marker (EW) KPH: San Francisco Radio CA US 0747 CW V marker (LVH) KPH: San Francisco Radio CW Marker (MS5)

4250 WLO: Mobile Radio, USA 1032 CW marker (EW) WLO: Mobile Radio AL US 1324 CW a DE marker (LVH)

4251 PPJ: Juncao Radio Brazil CW Marker (MS5)

4253 TAH: Istanbul Radio Turkey CW Marker (MS5)

4264 ZLO: Irirangi Radio New Zealand CW Marker (MS5)

4272.5 VID: Darwin Radio, AUS. 1035 CW marker (EW)

4274 KFS: Palo Alto Radio CA US 0759 CW CQ marker (LVH) KFS: Palo Alto Radio CA USA CW Marker (MS5)

4275 HPP: Panama Radio Panama 08 CW V/CQ marker (LVH)

4283 XSV: Tianjin Radio PRC CW Marker (MS5)

4294 WNU31: Slidell Radio LA US CW CQ marker 0806 (LVH)
4298 PPO: Olinda Radio Brazil 0807 CW V marker (LVH)
4300.5 KEJ: Globe Wireless, Hawaii 1049 CW cq marker (EW)
4303 OXZ2: LYNGBY RADIO 2300 CW Marker "cq de OXZ2/OXZ4 ans 4 8 12 mhz ere tfc fer = 9HWR4 J8QF2LYHY UMYC = pse ans 4185.4/8369.6/12553.1 =" (DW)
4305.5 JNA: JMSA Japan 0810 CW CQ marker(LVH) (JMSA - Japanese Maritime Safety Agency - LOGS)
4310 WNU41: Slidell Radio LA US 0812CW CQ marker (LVH)
4314 Unid 1714 CW mgs to m/k Kavarna. (BvR)
4318 VIT: Townsville Radio Queensland Australia 0814 CW CQ marker (LVH)
4328 JOS: Nagasaki Radio, Japan 1055 CW marker (EW) FFL2: St. Lys Radio France 0818 CW CQ marker. JOS: Nagasaki Radio Japan 1350 CW msg to AMCV followed by CQ marker (LVH)
4331 WCC: Chatham Radio MA US 0819 CW V marker (LVH)
4343 WLO: Mobile Radio AL US 0822 tfc to unid ship (LVH)
4348.5 KLB: Seattle Radio WA US 1354 CW CQ marker (LVH)
4369 WLC: Rogers City, MI USA 1619 USB wkg ships Presque Ille, Cason J. Calloway, Edgar B. Spear, and Roger Blough. Gave posn reports w/ETA's and load info. The Presque Ille was on Lake Erie. Calloway was loading at Lorain, Ohio. Roger Blough was at Lansing Shoal. WLC: Rogers City MI, USA 2018 USB wkg lakers Cason J. Calloway (WE4879) Edgar B. Speer (WQZ9670) Arthur M. Anderson (WE4805) and others w/locations, ETA's etc. (SF)
4387 WOO: 0200 USB re tfc list & ann re ship "direct dial" availability (sta/channel): WOM:423/805/1230/1609, WOO: 422/826/1228/1631, KMI:470/814/1229/1616. WOO, 0003 USB tfc list, also ann re direct dial access by ships.(KW2)
4402 KMI: Pt. Reyes Calif. 1215 USB automated wx broadcast incl.West Coast storm warnings (BDS)
4417 Various boats w/ informal discussions 1140 USB including: Raven, Coastin Jane, Heartbeat, Maoria. (KW2)
4426 SVN24: Athinai Radio telling C6KQ6 to stand by one minute (MB3)
4445 Kerikeri radio NZ 0715 USB wkg several vsls. (AW)
4646 Unid 0225 USB : fisherman net, they said that they were in the bay... they're also out of band!!!(AM3)
6236 Unid maritime w/two no id stas 0020 USB two radio officers discussing continuing education requirements. (KW2)
6286.5 EUCC: TKH VOLGO-BALT 112 0746 CW admin from Km Kireyev to UCW4. UTPJ: TKH OMSKIY 134 0825 CW msg (in Eng) for eta Stettin to UCW4. EMFG: TKH LADOGA 11 0828 CW admin from Km Gorchkov to UCW4.(HOOD)
6289 ULDF: TKH ICHIM 0740 CW admin from Km Stepanchenko to UHP5.
6335.5 VFF: CCG Iqualuit 1805 CW ice bulletin. (BvR)
6337 CBV: Valpariso Radio Chile 0451 CW w/ V marker (LVH)
6344 SVB3: Athens Radio Greece 2241 CW w/ DE marker (LVH)
6349 PPJ: Juncao Radio Brazil 2242 CW w/ V marker (LVH)
6376 WCC: Chatham Radio MA US 2247 CW w/ marker (LVH)
6380 UCW4: ST PETERSBURG RADIO 1002 CW msgs to UBEF: TKH SIBIRSKIY 2131 and UKLU: TKH SORMOVSKIY 3055 (This is North Western Shipping Company tfc).(HOOD)
6382.2 EAD2: Madrid Radio Spain 0437 CW w/ DE marker (LVH)
6389.7 WNU42: Slidell Radio LA US 2256 CW w/ CQ marker (LVH)
6410.7 KLB: Seattle Radio WA US 2259 CW w/ CQ marker(LVH)
6412 9VG: Singapore radio 1915 CW de 9vg.(BvR) 9VG55: Singapore Radio, Singapore 1036 CW cw marker (EW) 9VG: Singapore Radio Singapore 1214 CW w/ V marker Very weak in heavy QRM.(LVH) 9VG55: SINGAPORE RADIO 2115 CW Marker "cq de 9Vg55/6412 khz qsx 6 mhz ch 1 3 4 5 7 qsx 6 mhz 1 34 5 7 10" (DW)
6415 7TF4: BOUFARIK RADIO 2326 CW Marker "cq de 7TF4 qsx 6 mhz 6276/6276,5/ 6278/6278,5 khz tks k" (DW)
6416 WLO: Mobile Radio AL US 1211 CW w/ DE marker (LVH)
6421.5 FFL3: ST LYS RADIO 2120 CW Marker "cq de FFL3/FFL4/FFL6 qsx 6 8 12 mhz channel 3 and 4 k" - 130hz low (DW) FFL: St. Lys Radio France 2300 CW w/ CQ marker (LVH)
6425 ST PETERSBURG RADIO (UGC) 1030 CW Marker "de UGC qsx 6/8/12/16 k"
6426.2 LYK: Klaipeda Radio Lithuania 2302 CW w/ CQ marker (LVH)
6444.5 SVD3: Athens Radio Greece 2303 CW w/ DE marker (LVH)
6446.5 WLO: Mobile Radio AL US 2305 CW w/ DE marker (LVH)
6457 SAA: Kariskrona Radio Sweden 0445 CW w/ CQ marker (LVH)

6457.5 JOR: Nagasaki Radio Japan 2311 CW w/CQ marker w/QRM from unid SS males talking. (LVH)
6465.5 ROD9: MURMANSK RADIO 0807 CW msgs to UAIR: NIS AKADEMIK SHATSKIY (ex UPME, a research vsl of the SEVMORNEFTEGEOFIZIKA fleet).(HOOD)
6477.5 KPH: San Francisco Radio CA US 1200 CW w/ CQ marker (LVH)
6478.7 SVA3: Athens Radio Greece 0422 CW w/ DE marker (LVH)
6482 CLA: Havana Radio Cuba 2319 CW w/ CQ marker(LVH)
6484.5 WSC: Tuckerton Radio NJ US 1158 CW w/ CQ marker (LVH)
6493 VAI: Vancouver Radio, CA 1035 CW marker (EW) VAI: CCG Vancouver BC Canada 2323 CW w/ CQ marker (LVH)
6501 NRV: USCG Apra Harbor, Guam 1533 USB wx bcst. NOJ: USCG Kodiak, Ak 0222 USB marine wx. (AB2) USCG Mariana Section Communications(exact ID) 0955 USB wx & tide info to the area. Full ID at 1000. (AW)
6507 UIK: Vladivostok radio 1007 USB p/p to unid vsl in RR. (AW)
6513 Unid Russian stn 1005 USB presumed Kholmsk radio. p/p in RR. (AW)
7862.7 SPW: Warsaw Radio 0005 CW qsx 8400 (AM3)
8176 VIS: Sydney Radio 0715 USB w/wx information for Bass Strait area.(DW2)
8195 Unid: 1355 USB CH 801 qso fishing net ??(RT2)
8198 KDDW: M/V Stonewall Jackson 2212 USB quick R/C w/ WOM (JP) C6NW6: M/V Mattz Spica 1726 USB 13,945 DWT dry cargo vsl clg/wkg WOM for R/T tfc.(RB)
8207 HCHN: Isabella II 0340 USB concluding R/T tfc w/WOM. (RB)
8240 GACH: HMS Lancaster 2229 USB wkg Portishead. (IB)
8244.5 EMDQ: TKH BALTIYSKIY 29 0819 CW admin (in EE) from Km Ganichev w/ eta for Kiel Canal passage.(HOOD)
8246 PAPA: unid USN 0505 USB wkg O4V and C4H. PAPA instructed both to go to FOXTROT TANGO channel. (DW2)
8255 P3KY6: M/V Helmos 0709 USB clg Tokyo Radio. No joy. JVMI3: Unid 2346 USB clg PPR: Rio Radio. Is this really a Mongolian-flagged MV? (DW2).
8267 Destiny (c/s??) 2302 USB wkg WOM. (IB) C6KP: T/SS Island Breeze 2320 USB 38,175 DWT cruiseship, clg/wkg WOM for R/T tfc, this is the former Festival. 3EWK9: M/S Fascination 2359 USB Carnival Cruise Lines 70,000 GWT cruiseship concluding R/T tfc w/WOM. (RB)
8279 P3QM6: SARATOV CITY 1505 USB pp to Russia via OHG.(HOOD)
8297 Unid: 1350 USB American Eagle, Pride&Patriot morning fuel/lube rpts location some were around Morgan City sea buoy seas 5 to 7 ft wind nne 25 knots all is well new hand fine. (RT2)
8345 UZYT: TKH SLAVUTICH 2 0738 CW admin (leaving Burgas) to UWS3.(HOOD)
8350 HZKE: MV AHMED ARAB 0917 CW msg in Eng for eta Port Said via SUH.(HOOD)
8366.5 P3HK3: M/V Maiorca 2244 CW (no info) clg unid coastal sta, no joy. (RB)
8369 BEQJ: Qing Chuan 3 1312 CW clg JOS. (AB2)
8375 UANP: TKH LADOGA 17 0956 CW admin from Km Ivanov to UCW4.(HOOD)
8378 9HSO3: Orjen 1313 CW clg KFS. (AB2)
8396 P3QK2: M/V Fivi 0440 USB 33,651 DWT bulk carrier, w/load report to SeaVenture, ETA Montevideo (Uruguay). P3LR5: M/V Mentor 0502 USB 22,247 DWT bulk carrier, w/posn report, login 29282 MENTOR. (RB)
8444.5 KFS: Palo Alto Radio, USA 1018 CW cw marker (EW) KFS: Palo Alto Radio US 1142 CW w/ CQ marker (LVH)
8445 XSX: Keelung Radio, Taiwan 1027 CW marker (EW)
8445.5 WLO: Mobile Radio AL US 1141 CW w/ DE marker (LVH)
8446 UFM3: Nevelsk Radio, CIS 1001 CW marker (EW)
8448 A9M: Bahrain Radio, UAE 2033 CW marker (EW) A9M: Hamala Radio Bahrain 0250 CW w/ CQ marker (LVH)
8449.6 CLA: Havana Radio 1229 CW w/cq mkr. (DW2)
8452 VIT: Townsville Radio, AUS. 0533 CW marker (EW)
8453 VAI: Vancouver Radio, CA 1033 CW marker (EW) VAI: CCG Vancouver BC Canada 1139 CW w/ CQ marker.
8457 OFJ: Helsinki Radio Finland 0230 CW hrd call but nothing else in very weak signal. Heavy QRM from SS male in USB on frequency. (LVH)
8459 YQI4: Constanta Radio 1915 CW w/tfc list (PB)
8460 LZW4: Varna Radio 1905 CW "de LZW tfc list and blind as" (PB)
8460.5 PPL: Belem Radio Brazil 0228 CW w/ V marker (LVH)
8461 ZSC: Cape Town Radio South Africa 0229 CW w/ CQ marker(LVH)
8473 HLG: Seoul Radio South Korea 1131 CW w/ CQ marker (LVH)
8473.5 SEOUL RADIO (HLG) 0801-04 CW Vri shaky hand, sounds like "4RG". Marker "cq de HLG qsx 6/8/12 mhz" occasionally by hand (DW) A7D: Doha Radio Qatar 0224 CW w/DE marker (LVH)

8476 9VG56: Singapore Radio, Singapore 1043 CW marker (EW)
8481 VIS: Sydney Radio, AUS. 0923 CW marker (EW)
8482 SPH41: Gdynia Radio, Poland 0813 CW marker (EW)
8484 HLF: Seoul Radio 1231 CW w/cq mkr.(DW2) HLF: Seoul Radio South Korea 1126 CW w/ CQ marker (LVH)
8484.5 HZG: Damman Radio Saudi Arabia 0219 CW w/ DE marker (LVH)
8492 PPR: Rio de Janeiro Radio Brazil 0218 CW w/ V marker(LVH)
8496 CLA: Havana Radio Cuba 0215 CW w/CQ marker (LVH)
8500.5 Buchan 1245 USB wkg various stas on 401E. (PJ2)
8502 PPL: Belem, Brazil 0317 CW V, DE PPL, mkr.(AB2) PPL: Belem Radio Brazil 0214 CW w/ V marker (LVH)
8511 XSW: T'ai-Chung Radio 1220 CW w/cq mkr. (DW2)
8514 XSQ: Guangzhou Radio 1218 CW w/cq mkr.(DW2) WLO: Mobile Radio AL US 0211 w/ ship tfc list (LVH) MOBILE RADIO (WLO) 0809 CW Tfc list (DW)
8515 5AT: Tripoli Radio Libya 0210 CW. w/ V/CQ marker(LVH)
8520.1 PPO: Olinda Radio Brazil 0208 CW w/ V marker (LVH)
8521 VIP: Perth Radio Australia 0208 CW w/ V marker (LVH) VIP: PERTH RADIO 2317 CW Marker "cq de VIP k" (DW)
8522.5 FFL4: St. Lys Radio France 0206 CW w/ CQ marker (LVH)
8525 WNU33: Slidell Radio LA US 0205 CW w/ CQ marker (LVH)
8532 LZW42: Varna Radio Bulgaria 0202 CW w/ DE marker (LVH)
8534 WLO: Mobile Radio AL US 0200 CW w/ DE marker (LVH) WLO: Mobile,Ala 2150 CW 18 wpm qsx 4 6 8 12 16 22 MHZ de WLO obs,amvers. (RT2)
8557 SPE: Szczecin Radio Poland 0158 CW w/ DE marker (LVH)
8558.4 KFS: Palo Alto Radio, USA 1020 CW marker (EW) KFS: Palo Alto Radio CA US 0157 CW w/ CQ marker (LVH)
8559.5 GKB: Portishead Radio UK 0148 CW w/ DE marker (LVH)
8564 D3E51: Luanda Radio Angola 0145 CW w/ CQ marker in heavy RTTY QRM (LVH)
8568.5 XFM: Manzanillo Radio Mexico 0140 CW w/ CQ marker. (LVH)
8570 WNU43: Slidell Radio LA US 0139 CW w/ CQ marker (LVH) WNU43: Slidell 2125 CW 26 WPM WNU43 WNU43 qsx 4 6 8 12 16 22.. (RT2)
8573 CLA: Havana Radio 1213 CW w/cq mkr.(DW2) CLA: Havana Radio Cuba 0137 CW w/ CQ marker. Heavy key clicks noted.(LVH) CLA: Habana,Cuba 2115 CW 18 wpm cq cq de CLA tx 8573 12552 16736. (RT2)
8573.5 LYL: Klaipeda Radio Lithuania 0152 CW w/ CQ marker (LVH)
8574 LGB: Rogaland Radio, Norway 0910 CW marker (EW)
8582.5 KLB: Seattle Radio WA US 0133 CW w/ CQ marker (LVH)
8586 WCC: Chatham Radio MA US 0132 CW w/ V marker (LVH)
8589 HPP: Panama Radio Panama 0131 CW w/ V/CQ marker then into ship msg tfc (LVH)
8598 OXZ4: Lyngby Radio 1206 CW w/cq mkr. (DW2) OXZ4: Lyngby Radio Denmark 0128 CW w/ CQ marker (LVH)
8602 CWA: Cerrito Radio Uruguay 0126 CW w/ CQ marker (LVH)
8609.5 9VG73: Singapore Radio 1201 CW w/ch mkr.(DW2) 9VG73: Singapore Radio, Singapore 1039 CW marker (EW)
8611.5 TAH: Istanbul Radio 1200 CW w/cq mkr. (DW2)
8618 KPH: San Francisco Radio CA US 0122 CW. w/ V marker (LVH)
8624 XSQ: Guangzhou Radio 1158 CW w/cq mkr. (DW2)
8630 WCC: Chatham Radio MA US 0119 CW w/ V marker (LVH) WCC: Chatham R Mass 0110 CW 21 WPM qsx4 6 8 12 16 de WCC. (RT2)
8634 PPR: Rio de Janeiro Radio Brazil 0116 CW w/ V marker QRM from weak ARQ idler. (LVH)
8642 KPH: San Francisco Radio CA US 0114 CW w/ V marker (LVH)
8646 LPD86: General Pacheco Radio Argentina 0109 CW. w/ V marker.
8661 XSQ: Guangzhou Radio 1144 CW w/cq mkr (DW2) XSQ: Guangzhou Radio China 1159 CW w/ CQ marker (LVH)
8663 HMZ: Pyongyang Radio North Korea 0104 CW w/ CQ marker(LVH)
8664 TAH: Istanbul Radio 1143 CW w/cq mkr. (DW2)
8665 XSG: Shanghai Radio, China 0855 CW marker (EW)
8670 IAR: Rome Radio Italy 0059 CW w/ V marker (LVH)
8680 WSC: Tuckerton Radio NJ US 1407 CW w/ CQ marker (LVH)
8682 EAD3: Madrid Radio Spain 0054 CW w/ DE marker(LVH)
8685 IRM: CIRM Rome Italy 0052 CW w/ V marker (LVH)
8687 SVA: Athens Radio Greece 0120 CW w/ ship msg tfc(LVH)
8687.6 ST PETERSBURG RADIO (UGC) 1020 CW Marker "de UGC qsx 6/8/12/16 k" (DW)
8688 9VG36: Singapore Radio, Singapore 1041 CW marker (EW) 9VG: Singapore Radio Singapore 1153 CW w/ tfc to unid ship weak. (LVH)
8688.5 ZSC: Cape Town Radio 0201 CW w/CQ mkr. (DW2) ZSC: Cape Town Radio South

Africa 0050 CW w/ DE marker(LVH)
8692.5 SVD4: Athens Radio Greece 0043 CW w/ DE marker (LVH)
8694 XSZ: Dalian Radio China 1403 CW w/CQ marker (LVH)
8700 9AR: Rijeka Radio Croatia 2340 CW w/ V marker (LVH) 9AR: Rijeka Radio 1137 CW w/ch mkr. (DW2)
8704 SVB4: Athens Radio Greece 2335 CW w/DE marker (LVH)
8705.4 PKC: Palembang Radio Indonesia 1148 CW w/ CQ marker (LVH)
8706 JOS: Nagasaki Radio Japan 2333 CW w/ high speed CQ marker weak. (LVH)
8740 SVN43: Athens Radio 1759 USB announcements in Greek (PB)
8743 HSA: Bangkok Radio, Thailand 1230 USB gives EE wx information at 1235 (EW)
8764 8PO: Barbados Radio 2056 USB requesting all shipping in the vicinity of Barbados keep a look out for a missing surfer. (SF)
12438 UKQR: TKH ZNAMYA OKTYABRYA 0842 CW to UJE for "RADIO N NOVGOROD".(HOOD)
12454 UJLV: TKH PROFESSOR VOISKIY 0812 CW admin to "RADIO N NOVGOROD" via RFA.(HOOD)
12459 UAZB: MIKHAIL BORONIN 1055 CW admin from Km Khilchenko to UDK2 (replying on 13050).(HOOD)
12555 4JDR: TKH UZEIR HAJYBEYOV 0805 CW msg in Eng for Istanbul agents from Km Bakirov via UON (vsl bound for Mariupol).(HOOD)
12639.5 OST: Oostende,R Beligum 1540 CW cw marker (RT2)
12659.5 9VG37: Singapore Radio, Singapore 1044 CW marker (EW)
12660 WLO: Mobile Radio AL US 2102 CW w/ DE marker (LVH) WLO: MOBILE RADIO 1932 CW Marker "de WLO obs? amvers? qsx 4 6 8 12 16 22 mhz qsx ch 5/6 k" (or "ch 3/4 k") (DW)
12662 7TF8: Boufarik Radio, Algiers 1044 CW marker (EW) 7TF8: Boufarik Radio Algeria 2059 CW w/ CQ marker (LVH)
12672.5 CLA: Havana Radio, Cuba 1725 CW w/ CW call tape. (SF)
12676 HMZ: Pyongyang Radio 1602 CW CQ, QTC, QSX. (AI)
12678 9MG3: Penang Radio, Malaysia 0914 CW marker (EW)
12682.5 PKE: Amboina Radio, Indonesia 0856 CW marker (EW)
12689 PPL: Belem Radio Brazil 2044 CW w/ V marker very weak. (LVH)
12689.5 PPJ: Juncao Radio Brazil 2032 CW w/V marker very weak. (LVH)
12693 ST PETERSBURG RADIO (UGC) 1022 CW Marker "de UGC qsx 6/8/12/16 k" (DW)
12695.5 KFS: Palo Alto Radio, USA 1050 CW marker (EW) KFS: Palo Alto Radio CA US 2040 CW w/CQ marker (LVH) KFS: Palo ALto R Calif 1625 CW qsx 4 6 8 12 16 22 mhz. (RT2)
12698 ZSC: Cape Town Radio South Africa 2039 CW w/ CQ marker (LVH)
12699 HPP: Panama Radio Panama 2038 CW w/ V/CQ marker (LVH)
12700 XSQ: Guangzhou Radio, China 1052 CW marker (EW)
12704.5 WLO: Mobile Radio AL US 2035 CW w/ DE marker (LVH)
12707 9VG34: Singapore Radio, Singapore 1044 CW marker (EW)
12709 A9M: Bahrain Radio, UAE 1058 CW marker (EW)
12712 HLW: Seoul Radio, South Korea 0928 CW marker (EW)
12724 9VG57: Singapore Radio, Singapore 1047 CW marker (EW) ZSC: Cape Town Radio South Africa 2032 CW w/ CQ marker (LVH)
12733.5 9VG20: Singapore Radio, Singapore 1042 CW marker (EW)
12771 UHP5: ST PETERSBURG RADIO 1208 CW admin to UBBH: TKH OB for Km Maralov (vsl is ex ERYD, OMSKIY 112). Same 1210 CW admin to UVDI: TKH IGARKA for Km Plotkin abt eta for Ijmuiden pilot.(UHP5 carries tfc for ENNEK SHIPPING CO of St Petersburg).(HOOD)
12780 D3E61: Luanda Radio Angola 2025 CW w/ CQ marker (LVH)
12799.5 PCH51: Scheveningen Radio Netherlands 1626 CW w/ DE marker (LVH)
12808.5 KPH: San Francisco Radio CA US 1625 CW w/ V marker (LVH)
12829.5 XFM: Manzanillo Radio Mexico 1621 CW w/ CQ marker (LVH)
12830 RKLM: ARKHANGELSK RADIO 1302 CW tfc list and freqs 4343/6371.5/8580/12830, then into RTTY 50/170 for UFBY: IUZAS ALEKSONIS.(HOOD)
12835.4 GKB: Portishead Radio, UK 1029 CW marker (EW)
GKB: Portishead Radio, UK 1729 CW w/ a CW call tape. (SF)
12844.5 KFS: Palo Alto Radio, USA 1022 CW marker (EW) KFS: Palo Alto Radio CA US 1620 CW w/ CQ marker (LVH)
12847 WCC: Chatham Radio, USA 1027 CW marker (EW)
12856 XSG: Shanghai Radio, China 0857 CW marker (EW)
12864 XSW: Kaohshiung Radio, Taiwan 1153 CW marker (EW)
12869 WNU55: Slidell Radio LA US 1617 CW w/ CQ marker (LVH)
12871.5 XSG: Shanghai Radio, China 0853 CW marker (EW)
12876 VAI: Canadian Coast Guard Radio, Vancouver, B.C. Can 1741 CW w/CW call tape and msg for Crusade Venture - VRNJ. (SF) VAI: CCG Vancouver BC

Canada 1613 CW w/CQ marker (LVH)
12879.5 WSC: Tuckerton Radio NJ US 1612 CW w/ CQ marker (LVH)
12886.5 WLO: MOBILE RADIO 1708 CW tfc lists and wx (DW) WLO: Mobile Radio AL US 1610 CW w/ current tfc list (LVH)
12887 EAD44: MADRID RADIO 0813 CW wkg 9HVN4 who told up to 340 then eventually given "qsa nil qrx ltr". Marker "de EAD3/EAD44 qsx 6 8 and 12 mhz cg ar k" (DW)
12906 DZJ: Bulacan Radio, Philippines 1151 CW marker (EW)
12910 UAT: Moscow Radio, CIS 1150 CW marker (EW)
12912.6 FFL6: St. Lys Radio France 1608 CW w/CQ marker (LVH)
12916.5 HLF: Seoul Radio, South Korea 0930 CW marker (EW)
12917 KLB: Seattle Radio WA US 1607 CW w/ CQ marker (LVH)
12923 HLW2: Seoul Radio, South Korea 0931 CW marker (EW) HLW2: Seoul radio South Korea 1606 CW w/ CQ marker (LVH)
12925.5 WCC: CHATHAM RADIO 1526 CW Marker "vvv cq de KPH/WCC gm qsx mf and 4 6 8 12 16 mhz qru? k" (DW) WCC: Chatham Radio, USA 1147 CW marker (EW)
12935 HLG: Seoul Radio, South Korea 0931 CW marker (EW)
12942 JNA: Tokyo Radio, Japan 1145 CW marker (EW)
12948 DYV: Iloilo Radio, Philippines 1144 CW marker (EW)
12952.5 VIP: Perth Radio, AUS. 0532 CW marker (EW)
12969 XSV: Tianjin Radio, China 1140 CW marker (EW)
12970.5 PKX: Jakarat Radio 1313 CW CQ call. (AI)
12979.5 PPL: Belem Radio Brazil 1559 CW w/ V marker (LVH)
13002 KPH: San Francisco Radio CA US 1556 CW w/V marker (LVH)
13008 JOR: Nagasaki Radio, Japan 0523 CW marker (EW)
13011 IAR: Rome Radio Italy 1554 CW w/ V marker (LVH)
13015.5 IAR: Rome Radio Italy 1552 CW w/ V marker (LVH)
13020.4 VRX60 Hong Kong Radio, HK 0540 CW marker (EW)
13022 SPE63: Szczenin Radio, Poland 1136 CW marker (EW) SPE63: Szczecin Radio Poland 1551 CW w/ DE marker (LVH)
13023 D3E62: Luanda Radio, Angola 0839 CW marker (EW) D3E62: Luanda Radio Angola 1549 CW w/ CQ marker (LVH)
13024.9 WLO: Mobile Radio AL US 1547 CW w/ DE marker (LVH)
13029 SVB5: Athens Radio Greece 1547 CW w/ DE marker (LVH)
13033.5 WCC: Chatham Radio, USA 1011 CW marker (EW) WCC: Chatham Radio MA US 1544 CW w/ V marker (LVH)
13042.5 XVS: Ho Chi Minh Radio 1302 CW CQ call. (AI)
13044 VRX: Hong Kong Radio 1304 CW CQ call. (AI) VRX61: Hong Kong Radio, HK 1014 CW marker (EW)
13062 CLA: Havana Radio 1307 CW CQ call.(AI) CLA32: Havana Radio, Cuba 1129 CW marker (EW) CLA32: Havana Radio 1415 CW "qsx c/3 8368/12552/16736 tx 8573/12635/16961" (PB)
13076.7 HZG: Dammam Radio, Saudi Arabia 0930 CW marker (EW) HZG: Damman Radio 1428 CW [LSB] qsx ch 3/4/9 (PB)
13077 EHY: Madrid Radio 1406 USB w/tfc list (MB3)
13089 NMN: USCG Chesapeake 1730 USB wx. (BvR)
13092 WOM: Miami High Seas Radio 1258 USB tfc list, wx. (BvR) WOM: AT&T sta 1900 USB w/ tfc list //17242//. (DW2)
16866.5 Unid 1947 CW sta very weak and it is a chirpy signal. (LVH)
16911.2 JNA: Tokyo Radio, Japan 0815 CW marker (EW) (JMSA, Japanese Maritime Safety Agency, Tokyo, J - LOGS)
16914.5 CBV: Valparaiso Radio Chile 1937 CW w/ V marker (LVH)
16916.5 XSG: Shanghai Radio, China 0816 CW marker (EW) WSC: Tuckerton NJ US 1936 CW w/ CQ marker (LVH)
16918 PPJ: Juncao Radio Brazil 1935 CW w/ V marker (LVH)
16932 7TF10: Boufarik Radio Algeria 1932 CW w/ CQ marker (LVH)
16933.2 JOS: Nagasaki Radio, Japan 0822 CW marker (EW) WCC: Chatham Radio MA US 1930 CW w/ V marker (LVH)
16935 A7D: Doha Radio, Qatar 0823 CW marker (EW)
16940 XSW: Kaohsiung Radio, Taiwan 0827 CW marker (EW)
16945 XVG7: Haiphong Radio, Vietnam 1001 CW marker (EW)
16956 XVS: Ho Chi Minh Ville Radio, Vietnam 0839 CW marker (EW)
16966 SVI6: Athens Radio, Greece 0911 CW marker (EW) SVB: Athens Radio Greece 1725 CW w/ DE marker (LVH)
16969 WLO: Mobile Radio AL US 1723 CW w/ DE marker (LVH)
16972 WCC: Chatham Radio MA US 1710 CW w/wx broadcast for the North Atlantic (LVH)
16974 SPE81: Szczenin Radio, Poland 0913 CW marker (EW)

16980 UNQ: Novorossiysk Radio, CIS 0915 CW marker (EW)
16981.5 SVG6: Athens Radio, Greece 0842 CW marker (EW) SVG6: Athens Radio Greece 1705 CW. w/ DE marker (LVH)
16984 PPR: Rio de Janeiro Radio Brazil 1704 CW w/ CQ marker (LVH)
16987 VRX81: Hong Kong Radio, HK 0843 CW marker (EW) VRX: Victoria Harbor Radio Hong Kong 2333 CW w/ CQ marker(LVH)
16990 HLO: Seoul Radio, South Korea 0844 CW marker (EW)
17000 CLA: Havana Radio Cuba 1700. CW w/ CQ marker (LVH)
17002.4 XSG: Shanghai Radio, China 0935 CW marker (EW)
17007.7 KLB: Seattle Radio WA US 1656 CW w/ CQ marker (LVH)
17008.5 TAH: Istanbul Radio, Turkey 0937 CW marker (EW)
17011 XSX: Keelung Radio, Taiwan 0845 CW marker (EW)
17015 UTQ7: Kiev Radio, CIS 1042 CW marker (EW)
17016.5 KPH: San Francisco Radio CA US 2331 CW w/ V marker (LVH)
17022.5 MOBILE RADIO (WLO) 1705 CW tfc lists and info (DW)
17026 KFS: Palo Alto Radio CA US 1652 CW w/ship tfc list (LVH)
17027 FFL8: St Lys Radio, F 0901 CW marker (EW) FFL8: St. Lys Radio France 1648 CW w/ ship msg tfc then CQ marker (LVH)
17035 WCC: Chatham Radio MA US 1647 CW w/ CQ marker (LVH)
17037 YQI6: Constanta Radio, ROU 0903 CW marker (EW) YQI6: Constanta Radio Romania 1643 CW w/ ship msg tfc(LVH)
17038 WNU: Slidell Radio LA US 1639 CW. w/ CQ marker (LVH)
17045.6 LPD46: General Pacheco Radio, ARG 1047 CW marker, first sta from Argentina for me. (EW) LPD46: General Pacheco Radio Argentina 2229 CW w/ V marker(LVH)
17053 XSX: Keelung Radio, Taiwan 1031 CW marker (EW)
17064.8 EAD: Madrid Radio Spain 1635 CW w/ DE marker (LVH)
17068.4 OXZ: Lyngby Radio Denmark 1605 CW w/ ship msg tfc real weak.(LVH)
17074.4 LGW: Rogaland Radio Norway 1632 CW w/ CQ marker (LVH)
17077 ESA: Tallin Radio, Estonia 1001 CW marker (EW)
17079.2 HLF: Seoul Radio, South Korea 0912 CW marker (EW)
17088.8 KPH: San Francisco Radio CA US 2224 CW w/ V marker (LVH)
17091 GXSQ: Gangzhou Radio, China 0914 CW marker (EW)
17094.8 SVA: Athens Radio, Greece 0915 CW marker (EW)
17096 VRX: Hong Kong Radio, HK 1003 CW marker (EW)
17103.2 XSG: Shanghai Radio, China 0915 CW marker (EW)
17105 IRM9: INT Medical Radio Rome, I 0917 CW marker (EW) IRM: CIRM Rome Radio Italy 1627 CW w/ V marker (LVH)
17113 GKB: Portishead Radio, UK 0918 CW marker (EW) GKB6: Portishead Radio UK 1625 CW w/ DE marker (LVH)
17115 UGC: St Petersburg Radio, CIS 1005 CW marker (EW) UGC: ST PETERSBURG RADIO 1027 CW Marker "de UGC qsx 6/8/12/16 k" (DW)
17117.6 WNU: Slidell Radio LA US 1623 CW w/ CQ marker (LVH)
17130 HLW: Seoul Radio, South Korea 0655 CW marker (EW)
17141 UFN: Novorossiysk Radio, CIS 1101 CW cw marker (EW)
17141.6 USU: Mariupol Radio, CIS 1010 CW marker (EW)
17145 LZW: Varna Radio, Bulgaria 1102 CW marker (EW)
17146 CLA: Havana Radio Cuba 1618 CW w/ CQ marker (LVH)
17147 URL: Sevastopol Radio, CIS 1012 CW marker (EW)
17160.8 IAR: Rome Radio Italy 1610 CW w/ tfc list (LVH)
17161.3 VIP: Perth Radio, AUS 0649 CW marker (EW)
17162 PPO: Olinda radio Brazil 1608 CW w/ V marker (LVH)
17164.8 ZSC7: Capetown Radio, SA 1015 CW marker (EW) ZSC: Cape Town Radio South Africa 1606 CW w/CQ marker (LVH)
17165.6 CLA: Havana Radio Cuba 1605 CW w/CQ marker (LVH)
17169 A9M: Bahrain Radio, UAE 0922 CW marker (EW)
17170.4 PJC: Williamsted Radio Curacao Netherlands Antilles 1558 CW w/ V mkr (LVH)
17172.4 9MG11: Penang Radio, Malaysia 0925 CW marker (EW)
17173.5 WLO: Mobile Radio AL US 2222 CW wkg a ship in w/ msg tfc(LVH)
17175.1 A9M: Bahrain Radio, UAE 0927 CW marker (EW)
17175.2 VAI: CCG Vancouver BC Canada 1556 CW w/ DE marker (LVH)
17181 XVS: Ho Chi Minh Ville Radio, Vietnam 1018 CW marker (EW)
17184.8 KFS: Palo Alto Radio CA US 1553 CW w/ CQ marker (LVH)
17188 SVD6: Athens Radio, Greece 0928 CW marker (EW) SVD6: Athens Radio Greece 1552 CW. w/ DE marker (LVH)
17198.3 HZG: Dammam Radio, Saudi Arabia 1118 CW marker (EW)
17198.9 PCH60: Scheveningen Radio, Netherlands 0930 CW marker (EW) PCH60:

Scheveningen Radio Netherlands 1539 CW w/ DE marker (LVH)
17206.1 IAR: Rome Radio, I 1120 CW marker (EW) IAR: Rome Radio Italy 1538 CW w/DE marker (LVH)
17213.9 SPH: Gdynia Radio Poland 1536 CW. w/ DE marker (LVH)
17230 CWA: Cerrito Radio Uruguay 1536 CW w/ CQ marker w/ QRN from ARQ idler. (LVH)
17232.9 9VG53: Singapore Radio, Singapore 0933 CW marker (EW)
17238.8 XSV: Tianjin Radio, China 0934 CW marker (EW)
17239.7 PKB: Belawan Radio, Indonesia 1126 CW marker (EW)
17242 WOM: Miami high seas radio 1300 USB tfc list, wx. (BvR) (Officially called "AT&T Coast Station Florida" - LOGS)
17245 MLKE7: 1555 USB dx 16363 psn/rpts p/p qsos (RT2)
22090 Unid Asian stn 0635 USB. long p/p to unid vsl. (AW)
22452 XSQ: Guangzhou Radio, China 0551 CW marker (EW)
22459 XSX: Keelung Radio, Taiwan 0553 CW marker (EW)
22464 Odessa Radio 1038 CW cq (DG)
22477.5 KPH: San Francisco Radio CA US 2132 CW w/ ship msg tfc then V CW marker (LVH)
22478 CBV: Valparaiso Radio Chile 2140 CW w/ V marker (LVH)
22518 WCC: Chatham,R 1655 CW 21.3 wpm tel no for port services 1-800-xxx-xxxx ships trfc (RT2)
22539 KLB: Seattle Radio WA US 2127 CW w/ CQ marker (LVH)
22557 KPH: San Francisco Radio CA US 2121 CW w/ V marker (LVH)
22565 XSW: Kaoshiung Radio, Taiwan 0638 CW marker (EW)
22575.5 PKX: Jakarta Radio, Indonesia 0641 CW marker (EW) WNU: Slidell Radio LA US 2120 CW. w/ CQ marker (LVH)
22576.5 JNA: Tokyo Radio, Japan 0525 CW marker (EW) (JMSA - Japanese Maritime Safety Agency, Tokyo, J - LOGS)
22581.5 KFS: Palo Alto Radio CA US 2119 CW w/ CQ marker (LVH)
22595.7 SVB7: Athens Radio 1108 CW cq (DG)
22603.5 PPR: Rio de Janeiro Radio Brazil 2116 CW w/ V marker(LVH)
22646.5 JOS: Nagasaki Radio, Japan 0520 CW cq marker (EW)
22670.5 PPR: Rio de Janeiro Radio Brazil 2106 CW w/ ship tfc list(LVH)

=MILITARY=

18.2 VTX3: Indian Navy India 0425 CW marker, unsure of location (EW)
2428 MKL: RAF Edinburgh 1809 CW wx (BvR)
2702 Royal Navy: Coastal Control Ch.GB 0737 USB w/2 tone channel available signal (UKMACCS Maritime Coast Control). (RB)
3023 RESCUE 12: 0135/0145 USB wkg Kinloss and Shanwick. 12 asked Shanwick to relay close down msg to Kinloss because they were not answering, Kinloss had transmitter problems and were off air. (CH)
3047 Halifax Military 0445 USB wkg several Unids re: submerged boat (sounded like). (JJ)
3068 RESETTLE 0711 USB wkg NIGHTWATCH 01. At 0712z, a quick "Test. 1,2,3, 3,2,1 Test out (suspected MACDILL or MCCLELLAN, just because they've been doing that a lot recently on the GHFS). (JH) NIGHWATCH 01 0450 USB wkg RESETTLE on self ID'd Z-100, trying to work out ANDVT comms. NIGHTWATCH req RESTTLE to call him on LL. RESETTLE now female op, was male around 0440. (MG)
3113 SAM 201 0047 USB wkg Andrews Vip on F-777 for pp to unid meteo for wx, active runway, the usual service requests. Prior to moving to this freq they were up on 6683. (JJ)
3125 FDI22 French AF Narbonne 2125 CW V-Marker (CK)
3130 Unid w/Informal net chatter (military exercise?), 2344 USB stations in net: 93, 1C, Q. (KW2). (USN - LOGS)
3134 BRIMSTONE 0659 USB worked NIGHTWATCH 01. (JH)
3143 WAR46 0656 USB worked NIGHTWATCH 01, and then NIGHTWATCH 01 called DECEPTIVE (who was now on 4472), followed by DECEPTIVE wkg NIGHTWATCH 01 at 0657z. At 1403z, FEARLESS enters the net, and at 1405z, FEARLESS w/ a 26-character EAM, trailing the GHFS bcst of same. (JH) NIGHTWATCH 01 0448 USB passing P4DHCL tfc. ABDUCTION also in net. (MG)
3295 WAR46 0631 USB called NIGHTWATCH 01. At 0633z, a very weak station (maybe NIGHTWATCH 01) w/ 26-character EAM string, taken from the 26-character string of the 20/20/26 character EAM set hrd on the GHFS at 0619/0629z. LOSTSHOE 0011 USB called NIGHTWATCH 01. BRIMSTONE 0701 USB worked NIGHTWATCH 01. WAR46 0042 USB worked NIGHTWATCH 01. At 0046z, MAYBERRY worked COMPETENT.(JH) NIGHTWATCH 01 0410 USB wkg RESALE?

(maybe) req move to Z100. I caught the tail end of their comms on 3067. Is this Z100? NIGHTWATCH req move to Z-115 (3143). No better there, NIGHTWATCH req move to Z105. I thought I caught the tail end of their comms again on 3116, but it was to faint to tell. (MG) NIGHTWATCH 01 0410 USB wkg RESALE? (maybe) req move to Z100. (RD2)
4154.5 DRAE: FGS Lutjens (D185) 0800 USB wkg DHJ59 for RTTY coordination (JP) DRAG: FGS Rommel (D-187) 0657 USB German Navy guided missile destroyer, wkg DHJ59, Wilhelmshaven Naval w/after send of RTTY tfc, QSL/QRU. Last logged her 5/95. (RB)
4210 ZRA: ?? Not Sure CW Marker. (unid S. African Navy - LOGS)
4331 4XZ: IN Haifa 1709 CW 5 fgs. (BvR)
4448 Andrews VIP 0450 USB wkg AF-1 w/brief, ANDVT voice, signal cks.(JJ)
4452 Air Force 2 0500 USB wkg Andrews VIP for 021735z preflight freqs; given as: "This one" (this freq.) and "957." (The designator "this one" is a new one for me and sign of the times at Andrews.
4469 MOCKINGBIRD 7: 0052 USB clg MOCKINGBIRD 2 no joy, CAP net. (AM3)
4472 NIGHTWATCH 01 0658 USB called BRIMSTONE. DANDELION 0402 USB called NIGHTWATCH 01. COMPETENT 0300 USB worked NIGHTWATCH 01; at 0308z, MAYBERRY worked NIGHTWATCH 01; at 0310z, BIGRANCH worked NIGHTWATCH 01, COMPETENT. At 0323z, STABILITY worked NIGHTWATCH 01. At 0417z, COMPETENT worked NIGHTWATCH 01; when NIGHTWATCH 01 asked him if he wished to go into the "green" COMPETENT said sure, but someone in COMPETENT's background yelled at him to "check out, check out!", so COMPETENT did an "umm, request to check out of the net." At 0423z, NIGHTWATCH 01 called & raised WAR46, placed a pp to a very common DSN 939 number, this time id'd by female operator as NIGHTWATCH 02. Friendly chit chat, and NIGHTWATCH 01 tells NIGHTWATCH 02 "Red guys will be returning to the doghouse tomorrow." (sounds like "red"); then NW02 passed some brief "traffic" to NW01, and gone. NIGHTWATCH 01 0622 USB worked WAR46. (JH)
4491 CYRANO 44 (FAF AWACS) 1445 USB wkg VEILLEUR (CCAO Taverny, French Airforce HQ) w/tfc (also in line-form) about a SAR-mission. I can' t tell where or what kind of SAR-mission this is. (GD3)
4492 BIG LAKE##: 0215 USB c/s BIG LAKE 00,05,06, and 07 in net.BIG LAKE to net "qsy to 'ALFA', 'DELTA' is backup.(AM3) BIGLAKE ## (00; 01; 02; 03; 04; 05; 06) callsigns 0713 USB w/active net control comms possibly involving some sort of digital signal slightly up freq from 4492 (w/ the freq also qrm'd by occasional ALE-type pulses centered slightly down freq.) Suddenly at around 0710z, the signals went from mostly unreadable to maybe S9. (JH) BIGLEG (or BIGLEAGUE) 00, 01, 03, 05, & 06 0518 USB apparently wkg data tfc w/each other. Made reference to a "TOR"(Time of Receipt) for msg. timestamp "0524zulu."(JJ)
4495 STUDIOUS 0355 USB called NIGHTWATCH 01; at 0358z OXIDATION called NIGHTWATCH 01; at 0400z SHIPWRECK up on freq. (JH)
4550 TBU5: 0330 CW TBDJ de TBU5... Turkey???(AM3)(Turkish Navy, Ankara -LOGS)
4558 C: Unid 0125 CW rptng (AM3) (Russian Navy, Moscow - LOGS)
4645 NAVY 496 0350 USB periodically wkg Andrews VIP for signal cks and election results. Other than that, it has been a very quiet flight. Made a pp at 0353z for wx but I couldn't make-out the destination. ETA at (?) is 0645z. (JJ)
4704.4 INDIA-9 0505 USB wkg HABITAT re: playground comms. I-9 wants to know if Y-5-T is in the net. Also wkg ANDVT comms. (JJ)
4715 RAF Volmet London UK EE aviation weather 0828 (LVH) RAF Volmet 1657 USB saying 'no report received' for each and every airport it should broadcast met-reports for (MB3)
4721 N2P: Italian Navy 1517 USB wkg IDR(CK) FOXTANGO 0749 USB worked MIKE. (JH) HERSHEY 0150 USB wkg MIKE, re: tell your "TANGO-INDIA-CHARLIE" thanks. Also hrd mentioned: DELTA-TANGO, FOXTROT-TANGO, QUEBEC, CHARLIE-1, GREYHOUND, DELTA #s (tracks) 23, 24, and 30. etc., etc. (JJ)
4726.5 FDE14: FAF Villacoublay Air 1155 CW vvv. (PB) (see next - LOGS)
4727 FDE14 French AF 2220 CW V-marker (CK) (4726.5 or 4627??? - LOGS)
4730 RAF 'Cyprus Flightwatch' 1720 USB w/WX for European RAF bases and some WX warnings (thunderstorms over Cyprus) (MB3)
4742 Ascot 2144: VC-10 1123 USB Architect dep Brize Norton 1055/1105 eta Bari (Italy) 1330/35 standard relay C + BRIKKAZ + BRIKMAZ selcal CFAH. Ascot 4166 0915 USB w/Architect (C-130, RAF), ... CFE inspections, block clearance nr. RO/CFE/9B, at 0939 w/pp Lyneham ops: suggested re-route due to Romanian block clearance not valid and to

avoid Moldavia: from Prague. (OKL) route: UA484 - DIBED - B41 - SH -
A28 - destination (have a quick look to see if that makes sense...)
UA484 is on R-NAV2, not on the standard airways map. Lifter form 0935
USB w/Architect (Chinooks), ops normal. BOD 0952 USB w/Architect
(Nimrod?), radio ck. M1W 1016 USB w/Architect (Nimrod?), wx EHVB
(Valkenburg). RFR 7C81 0820 USB w/Architect (helicopter) wx EGVO
(Odiham) and EGKK. (BH) 7EJ 1420 USB clg Architect. no joy. Navy 708
1423 USB Architect nothing hrd. U2Y: 0050 USB Architect calling.
replied but weak, unreadable. ASCOT 5672: 0051 USB Wkg Architect
w/selcal ck AK-CH. IFN 50: 1145 USB Wkg Architect w/pp Ascot ops/
controller. On way back to Lyneham w/ cracked windscreen. Was going
to Sarjevo, diverting back eta 1210 IFN 80: 1115 USB wkg Arc.
Dep Lyneham 1040 arr Split 1330, selcal ck AK-DF. IFN 80: 1105 USB
wkg Architect Dep. Lyneham 1030, arr Split 1330, selcal ck AK-DF, Std
Rly Kilo. 2V019: 1130 USB wkg Arc. req pp High Wycombe ext 7978,
terminated. D3G: 1118 USB wkg Architect, wkg freq will be DA, call
Architect on freq DA. LISTER 17: 1120 USB wkg Architect w/pp Lyneham
ops. inbound 1150, contact 70Sqn. let flt and training know eta. ASCOT
5700: 1107 USB wkg Architect. selcal ck AJ-CK negative, chg to 6739
where selcal ck okay. (CH) ASCOT-5329 2129 USB wkg ARCHITECT. INCIRLIK
(AJO) 2224 USB USAF EAM msg (CK) IFN 24: 1435 USB wkg Architect.
Stansted to Split. Selcal DH-KM - RAF Tristar. HOBBIT Formation:1220
USB wkg ARCHITECT dep RAF Odiham req. radio watch RAF 27(R)Sqn Puma or
Chinook helos ". ARCHITECT: 1752 USB wkg "LIFTER Formation" msg from
Lifter Ops Lifter 3 u/s - so unable RV. Lifter's here are RAF 7Sqn
Chinook helos from RAF Odiham. SHF 93 1422 USB wkg ARCHITECT. Puma helo
from RAF Leeming to RAF Aldergrove monitoring freq. ASCOT 9257" 1125
USB wkg ARCHITECT. From Brize Norton to Lincoln Municipal NE. Info
relayed to KOFF (Offutt) also.Selcal was LM-GK which I think is one
the RAF's "new"VC-10's - I could use an update though. Ascot 3201 2348
USB wkg HAVEN (RAF Ascension), heading to Brize Selcal LM-DG, RAF
Tristar C2A ZE706. Navy 49676 2315 USB wkg Andrews - pp's - including
debating the merits of meeting w/ a Senator. RAFAIR 18L2: 1536 USB
wkg Architect. RAF Nimrod to Kinloss from ETUR.(PR) RRR2537 1403 USB
Architect/dep.BRIZE 1250/05 eta JEDDAH 1920/30 Standard relay 'D' sel/
BLHJ (XV101 VC10). (RD3) ASCOT5292 1019 USB wkng ARCHITECT w/ a
departure msg. ASCOT 9259 1020 USB wkg ARCHITECT w/radio ck & a
selcal of LM-HJ. 216 sqn Tristar from RAF Brize Norton. ASCOT 1223
0840 USB wkng ARCHITECT departure msg. dep EGWU 0800/05 eta LETO
1010/15 std rly-R selcal DJ-FH. A Bae125 of 36sqn based at RAF Northolt.
F7W 1432 USB wkg ARCHITECT wanted wx for Lossimouth. Q5A39 1147 USB
wkg ARCHITECT w/ a radio ck. M4Q 0855 USB wkng ARCHITECT wanted
TAF for LYNHAM. LYE036: 0915 USB wkng Architect w/ a radio chk. IFN83
1139 USB wkg ARCHITECT. dep Bruggen at 1125 ETA Split at 1420/30.
Selcal AJ-BH. JB15 1100 USB wkg ARCHITECT. ground radio ck.
HOBBIT-1 1113 USB wkg ARCHITECT required wx for EGVO. ASCOT4284: 0931
USB wkng Architect w/ radio ck & Selcal of AI-EH. ASCOT5704: 0940
USB wkng Architect w/ radio ck & selcal of AJ-DE. Q5A39 USB 1107
wkg ARCHITECT w/ a ops normal. STARTREK FORMATION 1102 USB wkg
ARCHITECT. Wanted the on the hour broadcast. ARCHITECT obliged.
ASCOT9057 1126 USB wkg ARCHITECT dep BrizeNorton 0954 std rly-A
eta KLNK at 1945/55. selcal LM-GK. ASCOT5020 1058 USB wkg ARCHITECT.
PP to ASCOT ops. A/C was required back today. to facilitate this
they would require a very quick turn around. can you sort this for us
please ? HOBBIT-2 1048 USB wkg ARCHITECT. CH-47 dep Lynham
en-route to Odiham, no relay, req listening watch. HOBBIT-1 1046 USB
wkg ARCHITECT. Chinook helicopter dep Lynham EGXE en route to EGVO
w/ 13 POB eta 1150. ASCOT2040 0847 USB wkng ARCHITECT w/ std rly-D
-AKTKORR & +JEDAPPO +JEDARUU. selcal EG-AJ. ASCOT5620 1028 USB wkg
ARCHITECT Dep Brugen stg rly-G. Wanted wx for a bunch of french
airfields. Paris cdg, lyon... F7W 1025 USB wkg ARCHITECT required
TAF for CORK, EICK.(SM)
4745 BRIMSTONE 0703 USB worked NIGHTWATCH 01. PLOWYOKE 0540 USB worked
NIGHTWATCH 01. MACDILL 0056 USB worked NIGHTWATCH 01 for voice and data.
MACDILL req NIGHTWATCH 01 move to 3113, but NIGHTWATCH 01 misheard
this as 3313 and MACDILL did not catch his error. 3313 was active
at 0105z w/ a very weak station who may have been NW01 clg MACDILL.
At 0107z HELPMATE worked NIGHTWATCH 01, and then NIGHTWATCH 01 worked

MACDILL w/ voice and data. At 0109z, TATOOED called NIGHTWATCH 01 during the attempted voice/data work. At 0110z, TATOOED called NIGHTWATCH 01 and raised MACDILL who gave him a signal ck. At 0111z, MACDILL told NIGHTWATCH 01 that his data tfc was garbled but understandable. At 0114z, TATOOED again worked MACDILL. At 0132z HELPMATE worked NIGHTWATCH 01 & told NW01 that WAR46 was trying to raise him on Z130, then HELPMATE exited the net. At 0212z, NIGHTWATCH 01 was still wkg MACDILL in voice and data, and told MACDILL something to the effect that MACDILL was not to alter the msg. This lengthy attempt to work MACDILL in data is unusual - usually if they can't get it right w/in a few minutes, they write the session off. COMPETENT 0053 USB worked NIGHTWATCH 01. (JH)

4785 NATO Alligator Co-ord net:1350 USB primarily British accents but some North European accents too. Part of the group moved the co-ord net to some unreadable designator possibly hrd on 11175 v. weak at about 1610. 5 or 6 NATO tri-graph c/s 1208 USB (predominantly British voices) on alligator co-ord freq. Just setting this one up I think. I've hrd them here for a couple of weeks now - on and off anyway. (PR)

5026 NIGHTWATCH 01: 0620 USB clg unid callword on 'Z140", no joy, QRM from broadcast station. (RB)

5043.5 Unid military 1630 USB Many stations (some w/European accents) & callsigns requesting sig reports, SNOWBALL & PINGPONG mentioned, also tfc between `Flight Lieutenant and Commander` re `lift-off`. Can anywun confirm this as Air co-ord freq for NATO exercise off NE Scotland? (ANUK)

5065 9MB: MN Georgetown 1925 CW vvv vvv (BvR) 9MB: Malaysian Navy 1730 CW "VVV VVV VVV 9MB 13/16/19" (CK)

5078 ECHO-7-QUEBEC 0057 USB wkg QUEBEC-3-ZULU w/ "Alligator" coordination tfc. (JJ)

5142.6 NMB: USCG Group Charleston, 0014 USB SC, USA clg Y9V, B4U comes up, adv re tfc Y9V passed earlier (app in the 'green'), confirms 7,000 on the fuel. (RB) NMV: USCG GRP Mayport, Fl 0517 USB wkg "cutter" req they adv when their boarding team is back on board & they are enrt to SAR, adv AirSta Miami has a Falcon on-scene. (RB)

5150 S: Russian Navy 2120 CW.(CK) (Arkhangel'sk - LOGS) C: Russian Navy 2120 CW. (CK) (Moscow - LOGS)

5154 C: Unid 0515 CW Rptng "c" in CW. C: 0135 CW rptng "c" (AM3)(Russian Navy, Moscow - LOGS)

5320 NUIH: USCGC Point Warde (WPB-82368) 0540 USB wkg USCGC Point Estero(JP)

5342 FDY French AF Orleans 1511 CW V-marker (CK)

5343 RIT: Moscow Naval, RUS 1400 CW P/L Russian nav wngs addressed to RKZ //11155. (JD2)

5350 FDI22 French AF Narbonne 1511 CW V-marker (CK)

5423.4 Proud Victory/Tango Charlie: 1641 USB wkg Determined Warrior, Green Stone, Rocket Ranger, VTC, & others ---coordination comms regarding live fire exercise from A/C; Id'd as "red circuit" (KW2).

5425 FOXTROT 0035 USB wkg I/B - I was intercepting CANYON (?) 401/403 -were to conduct Level 1 query on track - next air contact was at 3138N 6255W, altitude 24500, course 180 - FOXTROT assumed control 102/103 HOMPLATE at 0040 - finally ID'd track as P-3 w/wings clean. According to posn given, were around Bermuda. (TB)

5475 Unid 2254 USB TIGER 1 clg TIGER 2 for radio ck "on hotel foxtrot (hf)", no joy, then M4C clg TIGER 2 for radio ck. (DB3)

5680 Rescue 51 1036 USB wkg Plymouth Rescue, airborne from Lossiemouth, on route to SAR in posn 4919N0105E ETA on scene 12:15 8 hrs endurance. Rescue 193 1104 USB Refuel at the Scilly Isles complete on route SAR datum ETA 1245. Rescue 194 1115 USB Back A/C for Rescue 193 on route Scilly Isles. 1133 posn Scilly's radial 255/44. (AD2) SRG 131: 1030 USB enrt Lake district (CH) Helicopter Q98 1300 USB wkg w/ Riga Rescue.(both stations were loud and clear)(HW) DGU, 2128 USB wkg/ clg various stations for rdo ck: Legrand Radio, Seven Island Radio, Rubberville(?). (KW2) CAMSPAC Pt Reyes 0542 w/ vsl Portious (sp?). CAMSPAC Pt Reyes 0403 w/ S/V Yellow Rose (MS5) SRG 128 1345 USB wkg Kinloss Rescue dep Leconfield 6 pob for 1hr local flying.RAF Sea King rescue helo. 69 1158 USB wkg Sweden Air Rescue. Dep Brondby and is Southbound as well as being clear as possible. EI-BHO: 1505 USB wkg Kinloss Rescue r/c.Should be an Irish Sea King. Rescue 128 1404 USB wkg Kinloss Rescue - 5 miles W of Stoke, RAF rescue Sea King, not far

from my location. SAREX 31: 1230 USB wkg Kinloss Rescue. On task in 15 mins for PLB search (exercise). Nimrod a/c, also hrd w/ SRG 137, a Sea King. Riga Rescue: 1310 USB wkg Gluecksburg Rescue for Radio ck. Gluecksburg sounded as though he had a Swedish accent.(PR) KINLOSS RESCUE 1626 USB wkg RESCUE 177 re last known posn of a/c @13.02 5629.2N/ 00349.8W. At 1635 RESCUE 131 w/Kinloss re will be airborne from Perth in 10 mins, req.search info". Also Kinloss wkg mountain rescue team 'ALPINE 22' who are heading for search area. At 1716 RESCUE 131 reports on scene & req to deploy 4 MRs (mountain rescue crew) to search a hilltop at the point of last known posn of a/c for 30m while they perform air search. RESCUE 177 adv 131 present posn is Lough Turret. At 1722 RESCUE 131 adv Kinloss have located crashed a/c, no need for assistance now. At 1738 Kinloss adv 131 to go to Perth to pick up 4 Police who will replace MRT from Leuchars-bring MRT to Perth now-the Police will act as crash guards. (TW)

5684 Andrews VIP 0747 USB wkg SAM 26000 for a new primary on "F-437." Previously hrd on 6761 (F-957) and 6993 (F-117) just before landing on this freq. (JJ)

5692 RESCUE 1710 0250 USB wkg NMN w/pp Miami Op's, is at last reported posn of ship in danger of sinking. (name of ship unknown) 1710 was going to att to locate ship & contact other ships in area to aid in search on Ch 16. Dropping buoy to mark search pattern start & drift direction. (LH) Rescue 2131 0020 USB wkg Camslant. pp Miami Ops. Summed up by : Found no trace of ELT, so RTB. (PR)

5693 Coast Guard Group Cape May: 2214 USB wkg CG 6511 couldn't hear one another & was advised to go to FM (KW2).

5696 CAMSLANT Chesapeake: 0430 USB wkg 12 Carlie requesting flt ops.(CM) CAMSPAC: USCG COMSTA Point Reyes 2316 USB wkg 6042. 2129: USCG HU-25 2328 USB wkg CAMSLANT reporting flight ops normal. 37C: USCG HU-25A 0438 USB clg GROUP CHARLESTON. Charleston answers, calling 37C "2133" (USCG HU-25A). CANFORCE 2873: 0215 USB CANFORCE A/C wkg USCG CAMSPAC and Trenton Military. A/C located in Southern California area. SWORDFISH 32 1038 USB wkg CAMSLANT. Reporting that USCG Helo 6033 is rtb to San Juan and that SWORDFISH 32 will be flying cover and staying in the area. SWORDFISH is a call for USCG a/c involved in DEA ops. Rescue 6033 is enroute to San Juan w/ a medevac. SWORDFISH 32 reports that he hrd a mayday call on ch 16 from a fishing vsl which hit a shoal, is resting on the shoal and taking on water. Apx posn of the fishing vsl is 2041N 06708W. SWORDFISH descending to look for the vsl. At 1053, SWORDFISH 32 compromised his id by calling "Vsl calling mayday, this is Coast Guard Rescue 2132 on channel 16." Unfortunately (fortunately for us) they were on 5696 at that time (DW2) NAVY HM923 0013 USB clg Coast Guard COMMSTA Honolulu re is departing Barbers Point att w/12 POB enrt to search area. COMMSTA secures their guard advising std. freq pair as pri. and sec.(5.696pri, 8.983sec) and if they have any questions regarding search. HM923 adv they should be on station at 0025z. (EA) CG1704 0218 USB departs BP w/8 PAX enrt Christmas Island, COMSTA advises 5.696 pri 8.983 sec and SAG Alpha as tertiary. Believe SAG Alpha is 5693. (EA) Air Force Rescue 60224 1635 USB wkg CG Group Humboldt Bay, they will be airborne from Moffett Federal Air Field and flying to the SAR site soon. Navy "Sickleave" hrd w/ ground ck, answered by CG Group Humbolt Bay. USAF Rescue 60224 1719 USB wkg CG Group Humbolt Bay, said a USAF H60, callsign AF Rescue 107 was enroute to the SAR, ETA 1:40 mins. CG Cutter Sapelo 1811 USB wkg CG Humbolt Bay w/ location of data marker buoy dropped last night, 40209.3N 12506.5 W ?, also told CG Cutter Buttonwood ? enroute, on scene at 1900 local. CG653 2322 USB wkg Humbolt Group re: airborne soon, 3 pob. CG1601 1721 USB wkg CG Humbolt Bay, departing SAR scene soon and returning to Sacramento Air Station, ETA 10:30am local. COMMSTA Kodiak 0000 USB clg CG1790 (not hrd), pos rpt on gnd in Kodiak. CAMSLANT 2359 USB wkg CG1715 Flt Ops normal, pos rpt. CG Cutter Sapelo 1806 USB wkg CG Humbolt Bay rpt they are in a heavy debris field, setting up search patterns. CG6562 1719 USB wkg CG Humbolt Bay, enroute from CG San Francisco to Santa Maria for refueling, followed by CG San Diego. CG Humbolt Bay 1809 USB wkg USS Stethem re: refueling of AF H60's (EG) NAVY 508 1340 USB called by Culdrose (JP2) 93A, 2214 USB wkg CAMSLANT, accepting guard 6POB's homeplate Panther sector 6B patrol. CG2112 2225 USB wkg CAMSLANT, accepting guard 6POB's Roosevelt

Roads PR. CG Rescue 6002 2242 USB wkg CAMSLANT, accepting guard 4 POB's from Elizabeth City heading on mission for Elizabeth River area person in water. CG 2115, 2243 USB wkg CAMSLANT, securing guard on final approach to Otis ANG Base (MA). CG 6034 2132 USB wkg CAMSLANT, flt ops normal (now) posn rpt N3816/W7525, noted to CAMSLANT that just prior to call they had "complete" internal/external communications failure & if they couldn't be contacted they would head for 5696?.(KW2) TANGO 6 YANKEE 2058 USB passing flight ops normal to CAMSLANT Chesapeake. At 2100 CG 6009 passing posn report to CAMSLANT, CG RESCUE 2104 2145 USB departing Opa-Locka enroute Jacksonville request CAMSLANT take their guard. Station Mayport also contacted 2104 and requested they try and raise the cutter BEAR. At 2158 CG 6001 passing flight ops normal to CAMSLANT. CAMSLANT 2028 USB req flight ops from CG 1712, flights ops normal. (MF2) CAMSLANT Chesapeake 0207 USB clg Rescue 2131 0220 Rescue 6012 SITREP for CAMSLANT. 0231 CAMSLANT w/ radio ck to Rescue 2131 0245 Miami Ops called 2131. 2131 reports that vsl can't secure EPIRB on 121.5. CAMSLANT Chesapeake 0417 & 12C, 12C weak but readable (MS5) CAMSLANT Chesapeake 0416 USB wkg CAMSPAC Point Reyes for test. Rescue 6002: 0431 USB initiated guard w/ CAMSLANT Chesapeake for flight from Elizabeth City, NC to offshore from MCAS Cherry Point, NC. Guard was secured at 0722z after return to Elizabeth City, NC. HERK 04 1003 USB wkg CAMSLANT Chesapeake, requested msg relay to Mainstay(?). (MS6) J67: 1435 USB wkg Culdrose Ops req. clearance into a couple of radar areas for SAREX search.Royal Navy Jetstream T2 a/c ?. USCG a/c 0000 USB wkg CAMSLANT, including : CG 6009:HH-60J @ 35.43N 75.37W CG 1503: HC-130H @ 35.22N 77.32W. W8T @ 25.18N 78.08W Rescue 2131: HU-25C, 25.33N 78.06W . CG 1711 0000 USB wkg CAMSLANT. Ops Normal @ 27.59N 80.59W "Rescue 1500" also w/ CAMSLANT Ops Normal @ 35.12N 72.29W. Y7L 1420 USB wkg Culdrose Ops (Royal Navy), leaving Plymouth area Was probably a Dutch Lynx helo (from accent and noise). (PR) Coast Guard 1501 2308 USB wkg PP to Atlantic Area Ops Command (via CAMSLANT Chpk), they report are bingo fuel, going into Bermuda for fuel. Have not sited any vsls in distress yet, are wkg legs of search. Intentions are not to search back to DMB (Data Marker Buoy) but to let it drift. If site any flares will change search....Command is having trouble resolving fix.....CG1501 will return DMB after fuel. Lots of other activity here including posn reports to PANTHER. (PS3) SHARK 03: USCGC Harriet Lane (WMEC-903) 0206 USB wkg 32C w/posn. NRDC: USCGC Campbell (WMEC-909) 0500 USB wkg HERK 19 (CG 1719, HC-130 'Hercules') w/posn, later ID's as SHARK 09 wkg HERK 19. Culdrose Op's: Royal Navy AS Culdrose 0833 USB wkg unid a/c w/ck's. (RB) US Coast Guard Rescue 1710 0300 USB w/Cutter Tampa, Canadian Warship St Johns, USS John Hancock and US Navy Ship "Statesman" wkg a SAR on a sailboat at 28.20N 76.13W (SF) NMN: CAMSLANT Chesapeake 1353 USB wkg Coast Guard 2141 re the boat was found and that 2141 could resume its regular flight. (SL) 37 CHARLIE 0005 USB asking CAMSLANT Chesapeake to take 37's guard - 37C had dep BRAVO 9, homeplate was PANTHER and were enrt PANTHER 400...at 0012 the DELTA agent on board req CAMSLANT to contact PANTHER for posn, range and speed of TOI...PANTHER didn't have updated info ...DELTA agent requested that if TOI is heading to WHISKEY 6 then use CG 2112 (who had been sent to Key West to refuel & was expected to be at a posn just South of Bimini at 2030L) to take a DELTA team to Nassau. PANTHER requested that 37C head to PANTHER 400 and call them landline...37C reported that they would be at PANTHER 400 at 2025L... at 1955L (0055UTC) 63 ALPHA (former CG 2112) reported to CAMSLANT that they had acquired the target - PANTHER tells 63A that there will be a Falcon relieving them at 2030L & they should return to WHISKEY 10...37C then talked to 63A direct and asked if 63A was directly over the TOI... 63A replied that he was over the boat and it's course of 360 degrees at 30 knots...37C asked for posn & 63A gave him 2503.9N 7907.9W and boat was now dead in the water...37C then switched to 5692 for direct pp w/ PANTHER...never connected...at 0215UTC 63A was 12NM from KILO 6 & asked PANTHER to notify local authorities that it looked like the boat was heading to KILO 6. 63A told to stay w/ target. At 0235 63A reported that the boat was DIW and they thought that they had been spotted by someone on the shore w/ a searchlight...nothing else hrd until 0310 when 63A reported that he was on the ground at KILO6 and that the boat was abandoned in the harbor...subjects had fled the area and

local authorities & 63A's DELTA team was chasing them. 37C meanwhile was coming hard and were 170 NM from scene...37C requested a landing site for them at KILO 6 to which 63A replied that if he was light that he could land, otherwise he would have to use the hoist to get the DELTA team up...at 0325 63A reported that the DELTA team was back on board w/ one of the members having been hit by a rock and possibly suffering a broken collarbone...63A was returning to WHISKEY 10 but 37C should keep coming to look for the bales possibly dumped...63A told 37C that whatever he did, he shouldn't land at KILO 6 due to 'hostiles'(TB).

5700 ABNORMAL 10 was up on 5700 earlier, at strong levels

5700.4 HABITAT 2205 USB wkg TANGO-4-NOVEMBER. Re: Moving to voice ch. WY01. It seems these two are also wkg UHF comms at this time, so maybe WY01 is a UHF freq? HABITAT 1834 USB and numerous other players: MAGIC CARPET SIERRA, 1-ECHO, KILO-0, etc. (JJ) HABITAT, MAGIC CARPET and A5 0346 USB (MS5)

5705 LOSTSHOE 0011 USB worked NIGHTWATCH 01. NIGHTWATCH 01 0025 USB worked WAR46 w/pp to a common DSN number for NIGHTWATCH, for a brief connectivity ck, and gone. KEYLOCK 0716 USB worked NIGHTWATCH 01 and checked out of the net. At 0757z TAILBONE called and eventually raised NIGHTWATCH 01 at 0801z, for a data ck. NIGHTWATCH 01 0710 USB worked RESETTLE. ONEPUNCH 1517 USB called NIGHTWATCH 01. At 1524z, OVERTONE worked NIGHTWATCH 01, and asked about ONEPUNCH. At 1533z, OVERTONE (female opr now) worked ONEPUNCH. At 1545z, NEONSIGN (female opr) worked NIGHTWATCH 01 under the ANDVT comms between OVERTONE & ONEPUNCH. FLATWARE 0610 USB worked NIGHTWATCH 01. At 0635z, FLATWARE worked NEWMATH. At 0748z, TEAMWORK worked INCLUSIVE. At 0811z, FLATWARE (w/ distinctive "clattering" noises in his audio's background) w/39-character EAM (IHOEAK...). At 0823z, FOOTSORE w/ 33-character EAM (CXTWKO...); "more to follow"; 39-character EAM (CXGVIB...). During these transmission, FLATWARE popped up w/ EAMs as well, qrm'ing the FOOTSORE xmsns. At 0832z FOOTSORE w/ the IHOEAK...string; and 0837z w/ the CXGVIB... string. At 0841z, NIGHTWATCH 01 w/"SKYMASTER. SKYMASTER. AKAC 3-6-9 msg of 10 groups follows." and into NHS AMV BYD OHA 76O 66F BTJ R4S YTY E2Z. SKYMASTER was also hrd from callsigns and NIGHTWATCH 01 on 25/26 Oct 96 utc during an apparent large strategic exercise similar to this activity. At 0916z, TEAMWORK was up w/ the same AKAC 3-6-9 msg (w/out the SKYMASTER part). NIGHTWATCH 01 0808 USB worked TESTKIT; ENCOURAGE (EAM broadcaster); VIGILANT. At 1447z, ENCOURAGE w/ a 20-character (P4F6VM...) EAM, also hrd on 8968/ 15016/17976 at h+55/h+25. (JH)

5711 CAPE RADIO 0725 USB w/brief comms. (JH)

5739 RJE73: 1447 CW CQ/QTC marker followed by tfc in cyrillic alphabet and numbers(CK)

5759 TBO: Turkish Navy, Izmir 2203 CW, "vvv vvv vvv de tbo tbo tbo t23c t23c t23c" marker (MC)

5795 TBO2: Izmir Naval R Turkey 0700 CW VVV VVV VVV DE TBO2 TBO2 TBO2 VVV VVV VVV T23C T23C T23C (CK) (5759 or 5795 ?? - see 5759 log - LOGS)

5800 BRIMSTONE 0704 USB worked NIGHTWATCH 01. NIGHTWATCH 01 2033 USB worked GLASSWARE. At 2051z, GLASSWARE worked NIGHTWATCH 01 and exited the net (he had just entered the net at 2024z.) At 2057z, NIGHTWATCH 01 w/ a 26-character EAM (trailing the GHFS bcst of same), simulcast on 5800 & 9016. GERANIUM 1648 USB worked NIGHTWATCH 01, w/this freq made primary freq. DEERMEAT 0029 USB called NIGHTWATCH 01, w/no response and moved to 9016. Unid 0118 USB *Very* weak activity that sounded like a commercial pp in progress, w/one party having a UK (or Commonwealth) EE accent. Too weak to make out the id's or who was running the patch. NIGHTWATCH ONE 0012 USB called NEONSIGN (callsign active 24 hours). At 0014z, BLACKEYE called NEONSIGN. ASSISTANT 0323 USB called NIGHTWATCH 01. At 0631z, NIGHTWATCH 01 w/a 26-character EAM, after which he called ASSISTANT, w/no response. (JH) DEERMEAT: 0104 USB clg Nightwatch.no response. WAR 46: 0007 USB clg Nightwatch. No response (As Jeff said earlier - but I hrd nothing on 9016). (PR)

5875 NIGHTWATCH 01 2144 USB worked TALLCORN, and set this freq as net primary (because of lack of qrm on freq, but not for long.) At 2145z, NIGHTWATCH 01 moved FOGCOUNT from 9016 to here. Due to swbc firing up on freq shortly thereafter, they eventually moved net to 5705. ASSISTANT 0333 USB called NIGHTWATCH 01. A bad choice on NIGHTWATCH 01's part, as the freq is heavily qrm'd at this time of night. (JH)

5881 RMP: Navy Kaliningrad 0817 CW "de RMP 9134 =zpc=" (PB)
6379 4XZ: Israeli Naval Radio Haifa Israel 2250 CW w/ V marker(LVH)
6382 TBA6: Turkish Navy Ankara Turkey 0438 CW w/ V marker. Heavy QRM from EAD2 (LVH)
6385.1 AQK: Karachi Naval?, Pakistan 1730 CW marker "VVV AQK 2/4". (JD2)
6389 CTP: NATO Lisbon Radio Portugal 2254 CW w/ V marker (LVH)
6470 SXA: Greek Naval Radio Piraeus Greece 2316 CW w/ V marker (LVH)
6493 VAI: Vancouver Radio, CA 1035 CW cw marker (EW) (CCG - LOGS) VAI: CCG Vancouver BC Canada 2323 CW w/ CQ marker (LVH)
6501 NMN: CAMSLANT Chesapeake VA US 2326 USB calling the cutter Harriet Lane Told cutter to move to 6518. (LVH)
6502 TBB6: Turkish Naval Radio Ankara Turkey 2326 CW w/ V marker (LVH)
6518 NMN: CAMSLANT Chesapeake VA US 2327 USB calling the cutter Harriet Lane This is not an ITU allocated MMS frequency. No answer from HL. (LVH)
6647 WATCHDOG 94 1320 USB wkg GUY informing them of a good size group of French fishermen around 51.27N 06.04E GUY (HMS Lindisfarne P-300 Island Class Patrol vsl Royal Navy thanks for the ID Rick) heads over to have a look. WATCHDOG 94 1148 USB wkg "YZ" (prob. GUY - HMS Lindisfarne) Quick survey of French/British trawlers in their area. (PR)
6683 ANDREWS 1817 USB wkg SAM 200. (JH) NIGHTWATCH 0354 USB setting up data comms here w/MacDill. SPAR 66 2122 USB checking Andrews VIP on this new primary, "731" at 2122z. AF-2 0200 USB wkg Andrews VIP for pp to 301-DSN. EXECUTIVE-1-FOXTROT, DC-9 2216 USB ETA Las Vegas 2305z, wkg Andrews VIP for pps. VHF freq. 122.95 mentioned for Vegas.(JJ) NIGHTWATCH (female operator) 1318 USB clg Andrews asking for a signal ck. Andrews responded and transmission ended. At 1340 NIGHTWATCH 01 calling ANDREWS requesting a call to NIGHTWATCH 02, then w/comms to NIGHTWATCH 02 informing them that NIGHTWATCH 01 would be late getting to Offutt. Told NIGHTWATCH 02 to go ahead and use vehicles for their operation. NIGHTWATCH: 1318 USB calling Andrews asking for a signal ck. Andrews responded and transmission ended. (SL)
6691 LIMERICK: 0334 USB prob USN E-6B clg "zulu on CA" (DW2) RAFTMAN 1532 USB worked BOOMTOWN in voice and data, maybe for the next 90+ minutes. Also moved to CB (11187). BOOMTOWN 1738 USB worked TICKTOCK, w/ lots of "ZDK msg via "broadcast"" (zdk=repeat), and also lots of mention of GVL (Greenville, Tx?). At 2320z, BLACKDOG worked TICKTOCK ("feet wet at this time"). At 2323z: "ACS/T up at this time"; "Put CI operator on"; "QSL handover" (TICKTOCK to BOOMTOWN - just noticed this is near 2359z); "ACO up now". DUCKCALL 2143 USB worked TANACITY in clear voice and data. When DUCKCALL asked to perform a "T-quad", TENACITY begged off as he was "monitor only" for this, but agreed to accept DUCKCALL's "T-quad" ck. This was followed w/ timestandard ticking and very short beeps at the top of each minute. (JH) TICKTOCK 0545 USB wkg SPRINTER w/ comms and data. Using "TE204 Data Modem 4 tone" (MG)
6693 NATO style trigraph calls 1308 USB R8W (Brit.), 1BT (US) and others.(PR)
6697 5LN: 1127 USB wkg MKL wanting to know where to find 3KT. MKL says not on-station yet. MKL hrd wkg O6J (German accent) for wx info thru CRATT later on. (PR)
6712 FMN 53C9 0932 USB Circus Vert (Atlantic?) dep....1000 QRX 1130Z (in FF). (BH) McClellan: 0508 USB wkg NIGHTWATCH. Asks to call again in 30 mins.(CM) FAF 6645: 1320 USB from Cazaux to Ibiza, crew 7. msg to be relayed to "Airecolnav Toulouse","Ceaa Tours","Centops Fap Villacoublay". COTAM 3158 1515 USB from Dax to Orleans, mission nr 9646340593. COTAM 1814 1500 USB from Luxeuil to Aix. COTAM 3154: 1300 USB going to Madrid, mission Nr 9647340478 (JP2) TALON 23: 1208 USB wkg Croughton. pp Banter Control. Heading to Mildenhall needs a doctor on arrival for one person. Pilot gave TN as 88-1699.Which probably should be 86-1699 a 7th SOS MC-130H. IFO 14 1724 USB wkg Croughton pp Andrews VIP - says try F957 I hrd IFO 14 on 6761 but mostly QRM link dropped as 14 was almost on approach Will use F267 (6730) as primary and F311 (11220) as secondary tomorrow (12/11/96). (PR)
6715 TALLCORN 2141 USB worked NIGHTWATCH 01, both heavily qrm'd by regular h+30 data xmsn hrd on this freq daily. WAR46 0548 USB called NIGHTWATCH 01 for a signal ck. At 0549z, PLOWYOKE worked NIGHTWATCH 01 and exited the net. At 0715z MUSCULAR called NIGHTWATCH 01. OXIDATION 0217 USB called and eventually raised NIGHTWATCH 01. At 0344z SHIPWRECK (callsign remained active 21+ hours, until 2359z; had "noisy"

background similar to sounds from some EAM simulcasters) called NIGHTWATCH 01; at 0345z, SHIPWRECK worked LIMERICK (callsign heavily used throughout week). (JH) 5 FOXTROT MIKE: 2057 USB wkg Halifax Military re closing watch. Unid: 2 stations 2241 USB re informal discussion 1 station on ground at Robins AFB -- AFRES informal chit chat freq?? (KW2). 8UL: 0115 USB wkg Halifax Mil. Then into CRATT. (PR)
6717 SPAR 63:1340 USB DV on board, landed at ?, msg relayed to Ramstein (JP2) SAM 27000 1226 USB wkg Andrews for wx at HECA (Cairo Int.) (PR)
6719.4 MAGIC CARPET SIERRA 2217 USB wkg HABITAT & others. (JJ)
6727 8LV: 1320 USB wkg DHJ59 (Wilhelmshaven Navy), cannot complete mission so RTB Nordholz. Prob a German Navy Atlantic.(PR)
6730 SAM 300 2023 USB worked ANDREWS w/pp's. NAVY 50511 0123 USB worked ANDREWS. (JH) NAVY 496 0118 USB wkg Andrews for a signal chk. EXECUTIVE -1-FOXTROT 2348 USB wkg Andrews VIP re: departing Ontario, CA "in 15 MIKES." (JJ) Air Force 2 1435 USB wkg Andrews VIP for pp's(PR)
6735 GOLF 0656 USB wkg unk station; probable FOXTANGO net. The net was still active at 1527z. MIKE 0035 USB wkg various stations - probably FOX TANGO Alligator Playground voice co-ord net. FOXTANGO 0854 USB wkg JULIET, MIKE, PAPA and other players in his net. Discussing a move ("kick") to DELTA 30. (JH)
6739 STEEL 12: 0120 USB wkg Incirlik. told to QSY to 11118, week readable, QSY to 7805 (CH) ANDREWS 0619 USB as lead GHFS station, w/ a 20(RY)/20(RY)/26(FL) character EAM set over a 10 minute period. MCCLELLAN 0620 USB as lead GHFS station w/a 20(E4)/20(E4)/26(P4) character EAM set over a 9 minute period. At 1522z, REACH 4828 worked MCCLELLAN w/pp to TRAVIS CP re his receiver REACH 205. NIGHTWATCH 01 0055 USB worked MACDILL and MACDILL moved them to 4745. OFFUTT 0239 USB as lead GHFS station w/a 20-character EAM "FOR TACAMO PAC PRIMARY" (which followed by 8 hours an EAM "FOR TACAMO PAC SECONDARY." OXIDATION (probable USN) 0200 USB called MAINSAIL at 0200z, and THULE at 0204z. At 0214z OXIDATION worked WAISTCOAT and passed NIGHTWATCH net freq of Z160. At 0350z, STUDIOUS worked ALBROOK, w/ a pp to "COMMAND CENTER" (hrd in these patches and directly on 6691/11187 since 01 Oct 96), telling COMMAND CENTER that the "skipper" is sending new "mission schedule", and requests that COMMAND CENTER relay the "intention of your AOR ("ay oh are" (?)) (Area Of Responsibility ?) regarding his forces." PAT 139 0706 USB worked HICKAM w/pp to COMMAND POST. OVERTONE 0655 USB worked MACDILL w/pp to EVANS, who id's on the patch as BOOMTOWN. OVERTONE asks for "msg via wideband", w/BOOMTOWN asking "what msg?". OVERTONE replied "the VQ3 mission change" and to "ZDK via wideband" (repeat via wideband). At 0746z, SOMBRERO called "MAINSAIL w/ FLASH precedence tfc", and raised (ooops, didn't note it), w/pp to a common DSN 339 number (the extension was yelled to the SOMBRERO operator by someone in his audio's background). The FLASH msg: "request immediate retransmit of 182342z "stat"" (that would be a msg of 8 hours earlier). FLASH 99 0331 USB worked MACDILL w/pp to a DSN 884 number (Tinker), id'd as "AAR". FLASH 99 self-id'd himself as "the Navy plane", and he was trying to get info about parking at the TANGO ramp "...by VQ4 ramp." OFFUTT 0641 USB w/an "all frequency request" for TIGER 23 AND FLIGHT. NIGHTWATCH 01 0151 USB worked THULE w/ a signal ck, and gone. At 0338z, NIGHTWATCH 01 called "any station" for a signal ck, w/no response. At 0344z, an unid station (no id given) lit up the freq w/a musical train whistle, and into a spirited musical rendition of "I've been working on the railroad"; cut off in mid tune. At 0345z, NIGHTWATCH 01 w/ a call for MAINSAIL. At 0512z, NIGHTWATCH 01 worked MCCLELLAN w/pp to a DSN 271 number (not hrd before); w/ the party at the other end very hesitant about what was going on, but it appeared to be a signal ck, and NW01 gone. At 0619z E9P calling HICKAM, and saying in the blind "Executing Exercise GRIDIRON", and req a pp to a DSN 471 number id'd as F1L. At 0620z, MCCLELLAN w/a 20(IA)/20(IA)/26(T4) EAM set over a 9 minute period. OFFUTT 0607 USB as lead GHFS station, w/ a 26(T4)/20(T4) character EAM set. At 0627z, OFFUTT w/ a 26-character T4... EAM, followed at 0633z w/ a 20-character T4... EAM. Unusual to hear so many now rare 20-character T4... EAMs over a 7 hour period. (JH) SAWBLADE 0425 USB wkg MacDill for NIGHTWATCH freqs: "Zulu-175 pri. & Zulu-120 sec." (JJ) REACH 827: 2123 USB wkg Lajes pp Hilda East eta 0015Z OEKH C5 acft tail #700463 (KW2). Navy KU 59 2335 USB wkg Thule. pp Navy Duty, Keflavik

(DSN 450-5070). Relay of off-sta msg from C1H (who was about an hour from Lajes). MUH 12 0025 USB clg Lajes for a radio ck. No response. DEERMEAT: 0145 USB wkg Thule. pp Nightwatch. NW says will be "down for 2 hours due to work on frame of A/C".That infamous "interrogative" term was used by DEERMEAT in pp. RAFAIR 15LO 1340 USB wkg ARCHITECT for wx at Brunswick Bangor and Portland. Likely to be a Nimrod on tour. (PR)

6745 CHR: Trenton Military, ON 0230 USB wx bcst. (AB2)

6750 PAPA: unid USN 0347 USB wkg QUEBEC on FoxTango net (DW2) FOXTANGO 0448 USB wkg GOLF, then moved to the "101 net". (JH) FoxTango net 0005 USB active again briefly - mainly hrd radio cks. (PR)

6757 NIGHTWATCH 01 2147 USB wkg TALLCORN. NIGHTWATCH 01 0009 USB worked INCLUSIVE, FOOTSORE, MEMORIZE, IDENTICAL for a signal ck (none of the callsign were used in the net just 10 minutes earlier on 9016). At 0119z FOOTSORE w/ 20-character EAM. At 0121z, NIGHTWATCH 01 w/ "CARDTABLE. CARDTABLE. AKAC 3-6-9 msg of 3 groups"; repeated; and into GPB WHJ HO7. At 0128z, FOOTSORE w/ 26-character EAM. At 0237z, NIGHTWATCH 01 called INCLUSIVE & req he go into "green". INCLUSIVE seemed to respond by calling SILVERADO 28 (sounds like), at which point NIGHTWATCH 01 told him to go into the "green" again. At the completion of the ANDVT comms, NIGHTWATCH 01 called him INCLUSIVE 02. NIGHTWATCH 01 asked INCLUSIVE 02 if INCLUSIVE 01 were on freq, & was told yes, so NIGHTWATCH 01 raised INCLUSIVE 01 and they went into ANDVT comms. At 0243z, NEWMATH worked INCLUSIVE 01 for a signal ck, followed by NIGHTWATCH 01 wkg INCLUSIVE 01. At 0244z, URGENT called NEWMATH for a signal ck. At 0245z, INCLUSIVE 01 worked INCLUSIVE 02 in the clear and in ANDVT. By 0312z, URGENT worked INCLUSIVE (no suffix; female operator now). At 0342z, IDENTICAL worked NIGHTWATCH 01. At 0400z, NIGHTWATCH 01 called UPPER CUT but raised INCLUSIVE who told NW01 that UPPER CUT was out of the net. WGY904 1602 USB w/a HOTEL msg to unk party (missed it.) At 1604z WGY904 called DAYDREAM and passed a HOTEL msg in the blind. NEWSROOM 1740 USB worked CAMERAMAN and entered the net through CAMERAMAN. At 1811z, CAMERAMAN worked NIGHTWATCH 01 (now active), and attempts to exit the net via NIGHTWATCH 01, but is unable to authenticate NIGHTWATCH 01's 3-character set. They go into ANDVT, but the ANDVT comms are not wkg w/ CAMERAMAN. NIGHTWATCH 01 directs CAMERAMAN to call NIGHTWATCH 01 at a common DSN 939 number, & exit the net through secure landline comms. (JH)

6761 SAM 27000 2130 USB wkg ANDY w/11460 (Sec). (DC) TURBO 47 0535 USB clg JAMBO 40 FLIGHT w/o response. MACDILL responded to TURBO 47's calls, but misid'd TURBO 47 as JAMBO 47. For some reason, MACDILL was guarding this freq this local night. At 0546z, TURBO 47 called JAMBO. At 0647z, LUCKYHIT called MACDILL w/out response, then called MAINSAIL w/o response. Unusual to hear callwords on this freq since 1992. At 1644z TURBO 54 clg/wkg TURBO 06. Comms followed by some verbal horseplay on freq from maybe other a/c (mention of "goodtimes"). At 1647z, CODER ## FLIGHT (sounds like; could not make out numeric) called CODER 66. At 1700z JAKE 12 (sounds like; numeric called "one two") called something that sounded like OFFICE or maybe OFFUTT, w/ no response. STUMP 48 (sounds like) 0047 USB worked TURBO 46. (JH) GASSER 07 0430 USB clg Altus Command Post. No joy. WOODY 43 2310 USB wkg STRIKE Ops for msg: "FLCXGS." LUCKYHIT 0452 USB wkg MacDill for msg, relay to NIGHTWATCH. SAM 300 1537 USB DV 3 + 8, pps via Andrews VIP. GASSER 07 0430 USB clg Altus Command Post. No joy. WOODY 43 2310 USB wkg STRIKE Ops for msg: "FLCXGS." LUCKYHIT 0452 USB wkg MacDill for msg, relay to NIGHTWATCH. (JJ) RAID 48: 0036 USB calling SPIRIT 28 on "6761 Upper". (JM) SNOOP 56 1123 USB clg QUID 64 - did so on and off for 20 mins w/ no response hrd. Apart from a radio ck w/ Reach 1506. (PR)

6779 DRHN: FGS Main (A515) 0039Z USB doing voice coordination of RTTY w/ DHJ59 (JP)

6815.6 P7J 0315 USB active in DEA/USCG activity. X4V also active. (AH2) Cutter Hamilton (sounded like) 2349 USB posn 17.19N 65.19W (sounded like) wkg comms, both voice and ANDVT w/various unids and later hrd: SHARK 39 calling SHARK 67. No joy. (JJ)

6817 NAVY 676 0402 USB wkg Andrews VIP w/ signal chks. (JJ)

6825 FAV22: FA Mont-Valerien 1040 CW "cq de FAV22 ar" (PB)

6844.5 FDE14: FAF Villacoubly 1050 CW "vvv de FDE14" (PB)

6992.5 Submarine HMS Vigilant 1131 USB wkg MFP34. Sub said that his CO wanted

to work as many Sea Cadet stns as possible. MFP34 said that they had a local fishing boat on hand to take a party of Sea Cadets out to view the submarine. The sub said that the boat must not approach closer than 200 yards. 1233 Sub says that CO wants to know names and locations of Cadet units contacting the submarine. The NCS (MFJ04) passed a list of station callsigns and locations to the sub. (GT)

6993 ANDREWS 1721 USB wkg SAM 974. (JH) SAM 417 1600 USB enrt to Hawaii(?) wkg Andrews VIP. Also on 11056. SAM 26000 0245 USB DV 2 + 17, enrt to Vietnam, via Elmendorf/Yokota, wkg Andrews Vip for pp requests. Also found on 8026 and 11460. (JJ)

6997 Unid: 0210 USB Male calling out Phonetic Letters ...many "Whiskey's" and what sounded like Spanish numerals. The signal had a strange tone flutter in it. Small gaps in between letter groups. A good S5- S7 signal into Long Island. (JC5) (per post by Costas K, this could be the Italian AF - LOGS)

7535 NORFOLK SESEF 1931 USB conducting HF transmitter tests w/ the USS GRUMMAN. (MF2) Norfolk SESEF (Ft. Story, Virginia Beach Va.) 2030 USB wkg 9RT w/various radio tests. (SF)

7805 STEEL 12: 0120 USB wkg Incirlik. pp DSN 564 0000/local no. QSY to 4850 during pp then back to 7805 because of bad signal. 2 other morale pps made, one busy other answer phone. (CH)

7831 TALLCORN 2143 USB wkg NIGHTWATCH 01. BIGLAND 1918 USB (or BIG_____; can't make out the call; female opr) w/26-character EAM, trailing the GHFS bcst of same. She then called NIGHTWATCH 01 (no response) and REGENCY (sounds like), and asked REGENCY if he had received her "VOM2" (dropping the P4 static characters of the P4VOM2 preamble.) At 1922z, REGENCY cks out of the net via BIGLAND. At 1942z, BIGLAND w/a 26-character EAM, trailing the GHFS bcst of same by 7 minutes. At 2000z, BIGLAND w/ a 26-character EAM, trailing the GHFS bcst of same. TICKTOCK 2317 USB called NIGHTWATCH 01. (JH) Nightwatch 01 2013 USB wkg Squadcar freq Z-170 (SF)

7919 METAPHOR, unk 0735 USB wkg a/c w/HERKEY callsigns. (JD2) (USCG -LOGS)

7944 RIW: Khiva Naval, Uzbekistan 1025 CW clg CMU967 & getting no reply.(JD2)

7975 Charlie Hotel Hotel 7091 1750 USB to CHH 7052 passing codeword "Icefan." Open mike on freq, much giggling from female op., male voice suggests "unit is sinking in the mud." Seems like they are all having a good time on assignment. (ED)

8026 NAVY 50511 1542 USB wkg ANDREWS; moved to 11460. (JH) SAM 26000 0535 USB wkg Andrews VIP for Taiwan and Vietnam flight clearances and pp to Hanoi. SPAR 66 2052 USB DV 3 + 4, dep KCOS (Colorado Springs) 2042z enroute to CYQX wkg Andrews VIP on "290" for pp to Ramstein Command Post, 480-DSN. Andrews VIP 2319 USB wkg SAM 26000 w/preflight signal cks here and also on 11214. (JJ) Andrews 2046 USB wkg SAM 375. (MF2)

8032 SAM 203 1604 USB ETA Andrews: 1905z, wkg Andrews VIP for pps to CROWN and CROSSBOW for requested SATCOM chk. Request was denied by CROSSBOW, "We have an exercise in progress." (JJ)

8040 SAM 300 1537 USB DV 3 + 8, pps via Andrews VIP. Air Force 2 0105 USB wkg Andrews VIP for pp to CACTUS-3 re: SATCOM link. 0105z. At 0120z Two Spanish speaking males came up on freq. and in somewhat broken EE mentioned Mexico a few times, Gringo a few times, finally said "please get off the line." Air Force 2 did. AF-2 moved to 8047. Air Force 2 0105 USB wkg Andrews VIP for pp to CACTUS-3 re: SATCOM link. (JJ)

8047 PACOM 01 1645 USB Andrews VIP signal chks. NIGHTWATCH 0325 USB wkg Andrews for signal cks. (JJ)

8053 SAM 201 2330 USB wkg Andrews VIP for pp to Signature Av. and SAM Command. (JJ)

8078.5 The "REAR" 2208 USB clg any station this net for a radio ck. No joy.(JJ) (probably USN convoy comms...or USMC? - LOGS)

8094.5 FDC: FAF Metz 2105 CW vvv marker (PB)

8122 HMAS Protector 2030 USB calling Darwin control and Canberra control re circuits for passing tfc, it appeared that Canberra had some equipment problems. (BS) VLRW: Royal Australian Navy survey motor launch Benalla (A04) 1007 USB in contact w/ shore station Cairns Control. VLRH: HMAS Bendigo (PTF-211) 0742 USB wkg Canberra Control w/re msg tfc. VHP: Canberra Control, AUS 0807 USB wkg U9Q for radio ck. (RB)

8130 TBO: unk naval, TUR 1715 CW "VVV DE TBO T23C". (JD2) (Turkish Navy, Izmir - Logs) TBO: Turkish Navy, Izmir 1840 CW, "vvv vvv vvv de tbo tbo tbo t23c t23c t23c" marker (MC) TBO: Turkish Navy Izmir 2059 CW "vvv de

TBO T23C" (PB)
8437 4XZ: Israeli Naval Haifa Israel 0318 CW w/ V marker (LVH)
8494.7 D: Russian Naval Odessa Ukraine 0213 CW single letter HF marker(LVH)
8551.6 CTP: NATO Lisbon Portugal 0152 CW w/ V marker (LVH)
8590 VTK: Indian Navy Tuticorin 1410 CW VVV VTK 3/4/5/6/7. (AI1)
8968 GHOST 21: 1740 USB tfc via McClellan, QSY 11181. (AB2) Reach 3670 1810 USB wkg Lajes, pp Lajes PMSV wx KSWF (Stewart, NY) 2100. (BH) MacCellan: 2158 USB w/ EAM Broadcast (CM) Mcclellan: 0630 USB w/ 26 character EAM (P4YVJH....) PARK 53: unid 0253 USB w/ an "any station" call.(DW2) Reach0229 2233 USB wkg Hickam pp to Hickam Metro req wx 0115z. (EG) NASA 931 UTC? USB wkg Lajes, believe this is KC-135 N931NA? (JD3) SHARK 12 1536 USB wkg MCCLELLAN w/pp to LOBO. About an hour earlier SHARK 11 was up wkg ANDREWS w/pp to LOBO, w/SHARK 11 id'ing himself as ex WACO w/ "certain passengers" ex "point of origin," & enrt to maybe MWCR. FOGCOUNT 1828 USB was up (simulcasting on 8968 & 15016) at 1825z, 1855z, 1925z, and 1955z w/ 60-character EAM (IHNAQ7.., taken from 1418z GHFS broadcast), 20-character EAM (RYGZKI..., taken from 1716z GHFS broadcast, and 20-character EAM (RYJVB4..., taken from 1803z GHFS broadcast, & "ignoring" a 26-character EAM broadcast at 1739z by ANDREWS. At 1934z TROUT 99 called MAINSAIL for a signal ck. At 1953z TALLCORN called MAINSAIL and raised ANDREWS. When ANDREWS asked TALLCORN to spell his callsign, he did not use phonetics, but instead "spelled" it out ("Tee Aay Ell Ell ...etc). INTERLUDE 1855 USB ("clattering" noise in the backgroud of his audio, similar to sound hrd on ANGRYMAN a couple of days earlier) w/a 26-character EAM (FLY547..) simulcast on 8968 & 15016 at 1855z & 1955z, w/the string first hrd on the GHFS at 1756z. At 1935z ANDREWS, as lead GHFS station, w/a 20-character EAM "FOR TACAMO PAC SECONDARY." Unid '88' 1858 USB (could not make out the callword) called SKYBIRD & raised THULE, requesting his "current msg traffic." He ended his comm w/ a friendly request to the THULE opr for "the temperature there tonight." ANDREWS 0730 USB w/a 26-character EAM at ANDREWS' post 0600z h+30 "repeat" EAM xmsn time, w/ the string taken from a 0633z GHFS transmission of same. Also hrd on 6712 as is normal, but not hrd on 11244. (propagation). NIGHTWATCH 02 1848 USB called MAINSAIL & raised MCCLELLAN for a pp to NIGHTWATCH 01, which was completed at 1914z: NW02 asked NW01 "to do a one-twelve" which was also described by NW01 as "the UIC one twelve net", but NW01 said that all his systems are down, and that his net is on Z170/Z175. At 1904z GASSR 92 worked LAJES w/a pp to SEMINOLE OPS (he had one engine shut down due to low oil pressure indications). NIGHTWATCH 01 0339 USB called "any station" for a signal ck. At 0340z, WAGONBED responded to NIGHTWATCH 01's calls, but NIGHTWATCH 01 begged off, stating that he wanted to raise a ground station. No response, and gone. At 0548z, 5CH calling "any station this net" for a radio ck, w/ no response. At 0633z, E9P worked HICKAM w/a pp to a F1L (DSN 471) for an "Executing Exercise GRIDIRON" call, w/ a datetime group sounding like 10#451, and a TOR from F1L of 100634. OFFUTT 0042 USB w/ an "all frequency request" for SNOOP 34. MCCLELLAN 2338 USB w/a 20-character EAM "FOR TACAMO PAC PRIMARY", immediately followed by LAJES w/same EAM. (JH) REACH 0260 1315 USB to Aviano (should have been Moron)and then Entebbe (JP2) Lajes, 0118 USB EAM "JNAL7U..". (KW2) Rain 34, 0120 USB wkg Thule, very brief pp/ Raymond 37 & relay request info for Nordic Control eta 0330z --- I believe this is a U2/TR1 or SR71 A/C based upon the tactical callsign utilized & transmission sound. Count 45, 0121 USB wkg Thule, advised ops normal and QSY' back to 6761. LA 102 2331 USB wkg Lajes, pp DSN 433-XXXX "Golden Hawk w/ ops info. Reach 42958: 1825 USB wkg Lajes -- pp Lajes cmd post eta 2020z. Reach 5009: 2108 USB wkg Thule -- pp Dover cmd post eta 0030Z, 17 pax, 45K cargo. YJ2: 0054 USB wkg Hickam --passed info for relay to drop zone coordinator. PTA 108: 2134 USB wkg Andrews pp PTA ops eta Andrews 2250Z. SIERRA 88: 2209 USB wkg Andrews pp McChord ops w/ eta 2300Z (KW2). SIDECAR 2006 USB wkg 9 ROMEO VICTOR on comms. (MF2) CHILL 12 0330 USB wkg Thule w/pp to THERMOMETER passing msg: SAESJTCHILL12190300BCW. At 0342 clg FACEDROP (possibly via pp, no setup hrd). (MJ) REACH 534: 1522 USB being led around the spectrum by Thule before being lost (by me at least).They tried 9016, 8992, 6739 and back again. SPAR 67:1347 USB wkg Thule pp METAPHOR to get freqs - 7919 & 4770 (No chance of hearing them

here due heavy interference on both). OVA: 0955 USB wkg Lajes. pp commercial no. that Lajes has trouble w/. Then gets a Norfolk Navy base DSN which doesn't connect. Then gives up. TUSK 03 1405 USB wkg Thule. pp Moron Ops (DSN 722-8237/8391). '03 is at AR95 (44N 15W roughly - from an old log) w/ no sign of receiver.(PR) HERKY 412 1418 USB Lajes/Req.Metro-Told that wx.for GMMX will improve overnight still low vis at present. (RD3)

8971 CARDFILE 71 ECHO 2215 USB clg Gulf 2 Papa repeatedly..no response hrd. CARDFILE 71 ECHO w/ good strong signal here in Long Island. (JC5) WAFER 741 1933 USB reporting ops normal to ZERO CHARLIE VICTOR. (MF2) FIGHTING TIGER: 751, (USN P-3C?) 1747 USB clg (screaming) A6K, A6K clg 751, later FIGHTING TIGER 752 relayed his tfc. FIGHTING TIGER: 720, (USN P-3C?) 1859 USB wkg 84C passing spare group msg. (RB) Wafer 741 2106 USB wkg 4ED. Wafer 741 passed "Spare Group 5 Time 2100 zulu" Net still active at 2123 w/ several players. (SF)

8974 Airforce Sydney 0012 USB wkg "Striker 436" an Orion P3C Marine surveillance a/c out of Edinburgh WA airbase. (AW)

8983 CAMSLANT, 2358 USB wkg CG Rescue 2112, flt ops normal posn rpt N25,36 W79,21.(KW2) SHARK 29: 1750 USB (maybe "Shocker 29" - but "Shark" may be more likely here) wkg CAMSLANT has lost comms w/ all except CAMSLANT and CG 1715. (PR) CG503: 1930 USB psn/rpt 2457n/7811w inbound Air Station Miami 3 POB. (RT2)

8989 EXECUTIVE-1-FOXTROT 2035 USB w/Andrews VIP signal cks. (JJ)

8992 NIGHTWATCH 01 0341 USB called "any station" w/no response and gone.(JH) MacDill, 0118 USB EAM "JNAL7U..". A9Z: 1731 USB wkg MacDill -- pp Groton submarine base? for ops/supply coordination, shore station ID'd it as a submarine. Abe? 1: 2138 USB wkg MacDill -- pp range control w/ no joy. SAM 201: 1222 USB wkg MacDill pp Andrews VIP re departure from Miami 1210Z VIP advised to QSY to "784" for direct comm (KW2). MacDill 1940 USB wkg multiple pp's for REACH 8509 to MacDill Ops,HILDA EAST & AMC meteo (8509 is a C-5 Tail#850009). (MF2) Portuguese AF 636: (no. ?) 1300 USB wkg UNID. REACH 167: 2145 USB wkg Ascension. pp HILDA EAST Completed refuel on AR96. REACH 534: 1140 USB wkg MacDill. pp to a DSN 698 no. sorting out air refuel (w/ Maine 87).(PR)

9007 CanForce 2805 1806 USB tfc via Trenton Military. (AB2) Trenton Military: 2206 USB wkg CANFORCE 2956, rqst wx for St. Johns and Shearwater(CM) CHR: Trenton Military, Ont 1955 USB wkg CanForce 2215 passing actuals for sev cities including Ottawa. (RB)

9013 SENTRY 50 2349 USB worked TRENTON MILITARY w/pp to TINKER COMMAND POST "w/ traffic." (JH)

9014 ROGUE (sounds like) 09 1927 USB wkg RAYMOND 07 w/pp to ALTUS COMMAND POST. MEET 1 1821 USB wkg MEET 2 (or sounds like MEAT/MEET) in muffled voice comms. SENTRY 61 1815 USB called RAYMOND 07 for a signal ck w/no response. SENTRY 61 2337 USB called RAYMOND 7 for a signal ck. HAWK 84 2239 USB worked RAYMOND 07 w/pp to DYESS wx. (JH)

9016 BOATDOCK (sounds like) 0042 USB wkg NIGHTWATCH 01. NAILHOB 0024 USB called NIGHTWATCH 01. At 0406z, NAILHOB worked IMPURITY in voice & data. PANHURST 1707 USB worked NIGHTWATCH 01. At 2024z, NIGHTWATCH 01 worked GLASSWARE who entered the net. NIGHTWATCH 01 1730 USB w/an EAM broadcast. At 1732z, MUSCULAR called NIGHTWATCH 01 w/no response so he moved to Z135 (MUSCULAR active since at least 0703z, so I suspect he was trying to exit the net). DEERMEAT 0031 USB called NIGHTWATCH 01 w/no response. Also at 0043z & 0103z w/ no response. At 0206z DEERMEAT w/ a 26-character EAM (P44HGZ...), w/ a "clattering" noise and people shouting over the noise in his audio's background. ANDVT comms 1703 USB followed by station (female opr; presumed BLUECHIP), w/comment made to "contact me via WHISKY BRAVO 23". These comms followed by SHIPWRECK wkg BLUECHIP, w/ SHIPWRECK saying that he was asked by NIGHTWATCH 01 to inquire about BLUECHIP's msg datetime group 171640. At 2319z, STONEAGE worked NIGHTWATCH 01 & entered the net - by 0001z+, there was no callsign STONEAGE in the net. The net players were said to be BLUECHIP; SHIPWRECK; LONGBOW (or LONGBOAT; "monitor only"); and STUDIOUS. "01" 1609 USB wkg "02" (possibly two a/c in the process of a handoff) worked each other. At 1633z, SPREADER called BLACKDOG (another long-lived call, active until 2359z; female opr). At 1635z, SPREADER to BLACKDOG: "Your handover will be coming over "broadcast"." There is suddenly tons of "handover" chatter in these nets over many days. At 1637z, BLACKDOG called

AUDIOKIT (another long-lived callsign; probable USN); raised same; and into ANDVT comms. The nets suddenly have had more ANDVT comms between the players on a continuing basis than in the past. At 1656z, HICKAM is up on freq. At 1735z, VERIFIED (or maybe VERIFY) worked BLACKDOG. At 2003z, AUDIOKIT worked NIGHTWATCH 01, looking for DIGNITARY and any other stations who have checked into the net recently - told REGISTER (sounds like) at 1840z. At 2316z TICKTOCK worked NIGHTWATCH 01. FLATWARE 1522 USB worked NIGHTWATCH 01 and exits the net. At 1929z, MAYBERRY called NIGHTWATCH 01. At 1949z, FURCOAT called COURTLAND. At 2331z, RECKLESS worked MUSKETEER; comment made (something to the effect that a msg is coming via..) "ZERO THREE ZERO "SEE"" or maybe ZERO THREE ZERO THREE WHISKEY BRAVO (maybe aka 303 WB, as in a channel designator) in 10 mikes instead of CHARLIE ALPHA". (Via WB instead of HF 6691.) MUSKETEER called NOTED at the completion of ANDVT comms w/ RECKLESS. NIGHTWATCH 01 0503 USB worked MCCLELLAN, w/a "PATTERN 3" (conference call connectivity ck), as some training for some MCCLELLAN "trainees". The PATTERN 3 was conducted twice, w/the first set of Commands and what not consisting of 15 parties (the last 4 of which were callsigns either active in the present NIGHTWATCH net, or wkg the net in about 8-12 hours), and the second set consisting of only 12 parties (COMMAND CENTER was the only party plainly understood here; everyone else was echo'y and muffled to me). At 0515z, TESTKIT worked NIGHTWATCH 01. TESTKIT was told that LIMERICK, ORIGINATE, and two other calls were active in the net. At 0810z, VIGILANT worked NIGHTWATCH 01 and entered the net. MCCLELLAN 0737 USB wkg HICKAM in voice and data. Heavy GHFS to GHFS data day followed. At 1628z, MCCLELLAN called MACDILL. CRABHOLE (spelled) 1819 USB worked NIGHTWATCH 01, and enters the net. NIGHTWATCH 01 1828 USB worked WAR46 for a signal ck, and gone. Apparently, no players in the net at this time. HICKAM 1613 USB wkg PACOM 01 w/pp's. At 1819z, FIREANT called, raised, but did not hear NIGHTWATCH 01. NIGHTWATCH 01 2003 USB called SNOWPLOW. At 2028z, DUCKCALL worked NIGHTWATCH 01 and entered the net. At 2047z, DUCKCALL worked TENACITY. At 2119z SNOWPLOW worked DUCKCALL and exited the net through DUCKCALL (NIGHTWATCH 01 had gone monitor only for 30 minutes.) DUCKCALL kept saying that SNOWPLOW was entering the net. At 2131z, NIGHTWATCH 01 called and raised SNOWPLOW, but was informed by SNOWPLOW that he had already left the net. (JH) NW01 1930 USB adv "just landed home station and will be off HF for approximately 1 and a half hours". (LK) WAR46 1943 USB checking in w/ NIGHTWATCH 01, 02. NIGHTWATCH 2110 USB going secure w/ POOLHALL on P-Z175. ANGRYMAN 2111 USB advising NIGHTWATCH he will be monitor only. NIGHTWATCH 2113 USB going secure w/ REPUDIATE. NIGHTWATCH 2121 USB advising POOLHALL he has not hrd from FEARLESS since 1845. (MF2) McClellan 0440 USB wkg NIGHTWATCH 01 w/request for a pattern 3 or pattern 6 to train two operators. NIGHTWATCH replied he would have to check w/ 'Battle Station Commander' to see if he can. McClellan first asked NW if he did that sort of thing. he repiled yes. NIGHTWATCH asked McClellan to call him LL on DSN 936-3525. (MG) NIGHTWATCH wkg McClellan w/ "Request pattern 3 setup". They go thru authentication, same as checking into net. McClellen asks for precedence this call, NIGHTWATCH replies "Flash". Dial tone comes up followed by "105" in a female 'voice mail' computer voice. Another voice, I'm not sure it was real,repeats "All conferees stand by". NIGHTWATCH w/"Communications Flash Test Call-all stations report ?????(couldn't make it out). He then calls out, in order,STRATCOM, ACOM, UCOM (maybe EUROPE), CINCCOM, NORAD US SPACECOM, COMMAND CENTER, PACIFIC, SPECIAL OPS, SOUTHCOM, TRANSCOM??, COGNIZANT, YARDBIRD, BALLPEN, and CARPETBAG. All reply weak or barely readable. NIGHTWATCH w/ "This terminates conference". McClellan wkg NIGHTWATCH, trying to find out why all stations in Pattern 3 test answered w/ "weak , readable". McClellan suggests maybe the conferees didn't know it was coming over HF. NIGHTWATCH replies w/"that's a first for me". McClellan-"Yeah, usually the TACAMO's handle it". Both stations w/ ANOTHER Pattern 3 test about 10 minutes later. Apparently McClellan has two operators that need this test to complete some sort of training. TESTKIT 0519 USB wkg NIGHTWATCH checking into net. LIMERICK, ORIGNATE, NAMESAKE, CARPETBAG also in net. No mention of YARDBIRD or BALLPEN from Pattern 3 test above. Also no LIMERICK or NAMESAKE stations polled in test either. (MG) Nightwatch 01 2010 USB wkg Squadcar freq Z-175 (SF)

9017 SAM 203 2138 USB clg Andrews -- no joy. (KW2)

9019 RAID 15 0420 USB wkg PLANTATION for pp to NORDIC Control. After some time, PLANTATION advises that NORDIC Control is unable to transmit. RAID 15 informs PLANTATION that they must have a pp, a relay will not do....RAID must speak to someone at NORDIC Control in person. The PLANTATION signal was exceptionally strong into Long Island, while RAID was also loud and clear at my QTH. (JC5)

9023 GRIZZLY 07 1819 USB clg EAGLE CONTROL. TALLCOURSE (sounds like) 1527 USB clg/wkg REVETMENT for brief comms. DRAGNET VICTOR 1708 USB worked DEERHUNTER. BRANDY 1936 USB worked WGY950 w/a HOTEL msg (H221935). Typical next to last week of the month activity from these guys. OKIE SAM 1822 USB wkg BLUECRAB in clear and secure voice. DEERHUNTER 2239 USB worked DARKSTAR MIKE. (JH) BRANDY:1704 USB. calling MICROFILM BRANDY w/ a very good signal in Central KY From a previous logging AXLEROD operator now identifying as DARKSTAR MIKE. AXLEROD: 1644 USB calling MICROFILM (not hrd) w/ a H221640 msg.I think the same operator identified as DARKSTAR something or other and asked DEERHUNTER to meet him on satellite. AXLEROD calling BRANDY here at 1652. WGY904: FEMA Thomasville GA 1720 USB w/ a H221720 msg for MICROFILM. (JM) CANFORCE 115: 1247 USB wkg SIDECAR re data link coordination frq XCAE as station XAFPVH (KW2). DRAGNET VICTOR 2136 USB wkg tracks,also green tfc. (MF2) SAM 417: 2122 USB wkg Andrews VIP w/pp to Andrews meteo. (RB) Okie Sam 2015 USB wkg Thumper. (SF)

9031 J7P41 1138 USB wkg Architect on arrival Prestwick call ARCC Kinloss. IFN 31: 1403 USB wkg Architect. (CH) ASCOT 3602 1005 USB wkg ARCHITECT. Wanted wx for GLASGOW. ASCOT 3602 0928 USB wkg ARCHITECT. dep Brize Norton 0830/40z, eta 30W at 1130z, eta CALGARY at 1725/35z. selcal DJ AE, Std rly-C + YYCRKRR & YYCOOAC. TRISTAR 2,16 sqn RAF Brize Norton.(SM)

9057 NIGHTWATCH 01 1552 USB wkg WAR46. At 1609z, RAINCOAT worked NIGHTWATCH 01. At 1624z, ANGRYMAN worked POSSIBLE. At 1732z, ANGRYMAN w/ 26-character EAM ("ANGRYMAN w/ a msg of 26 characters"), w/heavy "clattering" in his background. At 1843z, POSSIBLE called NIGHTWATCH 01. At 1932z POSSIBLE worked NIGHTWATCH 01 & checked out of the net. NAILHOB 0019 USB called NIGHTWATCH 01. At 0028z SLIPHORN (female opr) called NAILHOB. At 0032z, SLIPHORN called RAINCOAT. At 0104z NAILHOB went monitor only for 2 hours, except that at 0210z NAILHOB called SLIPHORN, and at 0233z NAILHOB called STRATEGY. ANDREWS 1622 USB worked OFFUTT in a GHFS ALE "net" (ale pulse at conclusion of these comms). ASSISTANT 0311 USB called NIGHTWATCH 01. (JH) SAM 974 2105 USB ETA Hickam AFB: 0330z, wkg Andrews VIP for pp into an automated sports info system ph.# 202-362-4444. (JJ)

9246 Ascot 9246 1126 USB clg Architect. nothing hrd.

9991.5 SAM 049 0351 USB clg Andrews VIP for a signal chk. on possible new primary, F-703. (JJ)

10204 RAFTMAN 1521 USB worked NIGHTWATCH 01, req pp to two unsuccessful DSN 339 numbers, then to a DSN 837 number (TRAVIS) id'd as TULU (sounds like; all numbers probably VQ3). RAFTMAN is trying to raise BOOMTOWN on various CHARLIE freqs w/ no joy, & will try CA again. RAGTIME 1924 USB worked NOTED. TENEMENT 2002 USB worked NIGHTWATCH 01, and enters the net. At 2004z, NEWSROOM called NIGHTWATCH 01. (JH) BADBLOOD 2120: USB wkg NIGHTWATCH 01 changed to voice encryption (KW2). NIGHTWATCH 01 1939 USB wkg NIGHTWATCH 02, switched to Z175-9016 NW01 req NW02 to contact them when there where in range so NW01 could contact WALDORF. POTHONEY 1953 USB asking LUNCHBOX if there ready to receive his T-Quad. (MF2) GRENADA 1748 USB clg WGY913, WGY912 answers, pp to WGY913. 913 passes "H221745" and gone. WGY912 1458 USB clg GRENADA w/"standby for phone patch" WGY913 w/ "H221755" GRENADA reads back and gone. (MG)

10586 SAM 375 and SAM 417 1905 USB enrt Hickam AFB, wkg Andrews VIP, here on F-"974," w/ periodic signal chks. (JJ)

11053 SAM 300 1537 USB DV 3 + 8, pps to Raytheon Co. and KFTY via Andrews VIP. Also found on 6761 & 8040. (JJ)

11056 SAM 417 1600 USB enrt to Hawaii(?) wkg Andrews VIP. SAM 375 1552 USB wkg Andrews for info about SAM 417. Wants to know if "417 is an Andrews bird." The answer was yes, but assigned to a different base. sec. freq is 13960. SAM 417 1740 USB wkg Andrews VIP for pp to Travis AFB re: ORCA 51's (KC-10A Tanker) takeoff time (1725z). This confirms what I

hrd earlier about SAM 417 flying in "non-stop." Apparently, SAM 417 will be refueled in-flight. (JJ)
11059 SAM 403 1805 USB wkg Andrews VIP for signal chks. (JJ)
11155 RIT: 1915 CW wkg RKZ w/ rptd lists of msg numbers snds like tape generated morse eg RKZ RKZ RKZ DE RIT RIT QTC 023 45 23 0515 023 BT WSEM SUDAM NO 0000 LAT UTC 23 (NOVEMBER) PRIP MURMANSK RADIO NR NR 107/ 95 11/96 18/96 <snip> BT (DT2) RIT: Moscow Naval, RUS 1400 CW P/L Russian nav wngs addressed to RKZ // 5343. (JD2)
11175 Otis Fitzgerald 1511 USB wkg Albrook w/pp Command Post. REACH 80219 1947 USB wkg Hickam w/pp CASINO ROYAL. REACH 07RC 2145 USB (tail 638086) wkg Hickam w/pp McCord AFB. (AB2) SOONR31 1944 USB failed attempt pp. SERNO78 1945 USB wkg Andrews pp to GUNRUNNER. SOONR31 1947 USB wkg Andrews pp to Barksdale AFB 781 3226. Operations at Barksdale was told ETA is 2125 requesting 20,000 lbs fuel & sleep? service. requesting an unid item be there at 2100 and wants Barksdale to confirm. JOHNBULL 1954 USB wkg Offutt, said something about freq's for NIGHTWATCH. The freqs were 211, 180. CARMEN(EIGHT?) 1956 USB wkg Offutt and requested pp. Offutt made pp somewhere for them. They requested WX info for (ILG?), Delaware, got observations @ Wilmington. Unid USB 1958. (VAT____) wkg Offutt pp to unid. Told the party they were airborne and ETA 2230 ask if the WX was getting -better- and were given a WX report. Said they would be A3 when returned & were warned that runways were wet. EVAC416 2019 USB called Mainsail and received no reply. REACH202 2019 USB called Ascension for radio ck. EVAC416 2023 USB called Mainsail and received no reply. Unid 2031 USB requested pp w/ GUNRUNNER. REACH 4502 2048 USB wkg Offutt req pp and was covered by another station.(AR) Navy GF21 2048 USB clg Mainsail no joy. Herky 100: C-130, Ramstein 1056 USB clg Mainsail Incirlik responds, no joy, -> 15016 -> 13200 -> 11175 (Croughton). pp DSN 480-2121 (Ramstein Command Post): dep Sigonella 1043, the squadron is closed till midnight (due to thanksgiving day). Reach 11T4: C-141B, 66-0162 1105 USB wkg Incirlik pp Ramstein AMCC: tailnr 60162, mission nr AQB20T2, etbRamstein 1330, A1, pax & payload info over UHF closerin. pp Ramstein PMSV, no pirep. Navy LF16T:P-3, VP-16? 1111 USB clg Mainsail -> 11244 (Incirlik) pp DSN 624-6797 (referred to to Incirlik as "my unit", party was called CONTRON DUTY or something on the patch). dep out of France late due to maintenance, eta on deck Sigonella 1+00 from now, ensure all parties notified. SAM 26000: C-137, 89th AW 1114 USB clg Mainsail no joy, 1132 wkg Incirlik on 11244 pp DSN 314-626-5235 (Naples base ops): DV2 + 9, eta Naples 1340Z, req. 45K fuel upload, servicing, water, latrine service, 150 lbs wet ice on departure. Parking on the VIP stand directly in front of the air terminal. Runway in use: 24. Reach 109: C-141B, 66-0162 1135 USB wkg Croughton pp Hilda East: dep GMSL (Sidi Slimane, Morocco) 1100, mission nr AMXF109AE334 (how's that for a short mission nr?) tailnr 60162, eta Ramstein 1435. pp Ramstein PMSV wx Ramstein 1430, alternates Frankfurt, Mildenhall, Spangdahlem (bad wx in Germany, snow and bad viz). Pirep: C-141 3711n 00354w fl350. Note: this is the same a/c which flew Reach 11T4 yesterday. IFO 16:USAF, IFOR mission 1156 USB wkg Incirlik pp Ramstein Command Post, DSN 480-2121: stuck at Sarajevo due to bad visibility and heavy snow, no deicing available. Suggestion from CP: sweep the snow off the wings. Reply: you don't really understand how much snow we're talking about. Tried 50 knots taxi runs, which only cleared the wings to the outboard engines, beyond that wings remain covered in snow. Closing down, call again via landline. The outboard engine makes this a 4 engine plane, which is not that much help in identifying an AMC A/C. IFO 60:C-130, USAF, IFOR 1205 USB wkg Croughton pp Ramstein PMSV, DSN 480-7015 for wx Ramstein 1330. Pirep: C-130 47.28n 014.49e fl180 vis 100 NM(!), posn is 80 NM ESE Salzburg. Reach 0082 2013 USB Ascension pp Dover command post, Dover metro IFO 04 1446 USB Mainsail (USAF, IFOR) no joy. Rhet 99 1446 USB Mainsail no joy. Navy WU521 1251 USB Incirlik pp DSN 624-4121 (Duty Office, DSN 624 = Sigonella): from 9FR spare group 02 (distorted). Herky 58 1257 USB Incirlik (C-130) pp DSN 480-2121 (Ramstein CP): eta 1445, A1, 16 pax + loose baggage, need fleet service, pax transportation. FLC 94 1328 USB Incirlik also pronounced c/s as 'Flightcheck', FAA a/c? pp CONUS DSN 940-2819 ("Oak City"?): on the ground, problem w/ a clearance for Oman due to a fax-machine inop. Fax nr. given. 6QS 1330 USB Croughton clg both Croughton and Skyking,

no joy Reach 1819 (C-141B, 64-0621) 1333 USB to Incirlik when they said 1819 was weak readable: "turn your antenna to the Ukraine" pp Hilda East: tailnr. 40621, on the ground UKBB (Kiev?) w/ a downloading problem (handling equipment), next station EYVI (Vilnius) is open daylight only, unable to make that in daylight, request why they're not open after sunset. Later: visa needed to RON in UKBB, crew has no. dep LUKK 1050, arr UKBB 1150. What's LUKK? Lion(?) 81 1335 USB wkg Offut a/c wk, pp .... ops: 50% video lock, eta 1330 local. Navy AH930 1350 USB wkg Incirlik pp DSN 624-5121 (duty office "7TW"): spare group 03. See the earlier Navy WU521, the DSN nr. changed 1 digit, probably my mistake. Navy 50496 1401 USB wkg Offut (VP-3A) pp Andrews Presidential Airways, lost them on 875: -> 505 (9006, thanks to the designator list!) pp DSN-564-xxxx: eta on time, everyone notified, need fuel truck, fleet service. pp Norfolk PMSV, wx Norfolk 1700. Refix(?)13 1401 USB clg Mainsail no joy. unid-64 1404 USB has Quid 11 loud and clear. FOOT 19: Callsign was spelled and type acft.C-130 1818 USB w/ Offutt relaying info to Nellis AFB, NV Base Ops. Request 9000 lbs upload. dep from Randolph AFB, TX and then will be going to Hulburt Field, FL PPR # 321311TA. (I have no record of FOOT callsign. Any ideas?) WITC 93: Callsign was spelled and type acft.C-130 1856 USB w/ Offutt p/p DSN 747-8693 (Rapid City Reg.Arpt.SD) concerning snow removal and Wx. ETA 2030z (My records show callsign is from 175th Wing, Baltimore, MD) Callsign unreadable (C-130 Acft.) 1915 USB w/ Offutt requesting PPR # for landing at Columbus (Unknown if Columbus, OH or Columbus AFB, MS) crew member has a family crisis and needs to return to Milwaukee ASAP. A/C was on tactical mission and requested 10,000 lbs upload. Offutt relayed from Columbus Base Ops PPR # 16-07. BONE 21: 28th BW Ellsworth AFB, SD B-1B acft, Callsign spelled 1918 USB calling MAINSAIL. Elmendorf answered and told BONE 21 to standby. At 1924z Elmendorf attempted to contact BONE 21. No answer. REACH 149 C-141B 1958 USB p/p w/ McClellan Metro for KSUU (Travis AFB, CA) Wx. PIREP FL 39.0 posn 39 North 104 West (That puts him about 70 miles southeast of Denver, CO) CARMEN 3: Callsign was spelled and type acft. C-130 2330 USB w/ Hickam Global p/p DSN 924-9416 (Salt Lake City IAP, UT) UTAH CONTROL (ANG 151st ARW CP). ETA 0215 dep Howard AB, Panama req. customs & Ag for 14 Pax and a crew of 7. Running late because of head winds of 100 plus knots near Houston, TX. (I have no record of CARMEN callsign. Any Ideas?) PETER 40: Callsign Spelled 0102 USB calling for Offutt on 8968 first. No answer. then he went to 11175 and tried MAINSAIL w/ still no answer. Hickam radio was busy w/ REACH tfc and must have never hrd PETER 40. (Once again I have no record of PETER callsign.) Raider 29: VMR 352 C-130 acft 1933 USB w/ Elmendorf p/p to McChord Inflt. Kitchen w/ a order for 7 crew meals (Turkey on Sourdough) upon arrival at McChord AFB, WA. This was one lengthly discussion w/ Inflt. Kitchen. (BH3) OPENSKIES 12T: 1100 USB wkg Croughton (only part of transmission but mentioned Ukrainian). HERKEY 46: 1100 USB clg Croughton. SPAR 51: 1119 USB clg Incirlik w/rdo ck. IFO 12: 1343 USB wkg Croughton w/ pp __ ops est 1700 local, no.2 oil pressure light problem. G.A.F. 346: 1407 USB clg Andrews, no joy. CANFORCE 2937: 1114 USB clg Croughton, nothing hrd so chg freq to 17976, no joy (CH) GOPHER01: 2104 w/ Offutt pp to base ops? Status is A1; they will be offloaded tomorrow; nobody will be meeting them on the ramp.(CR) RAVEN 46 2136 USB wkg Elmendorf AFB for pp to Unid command post. (DW2) NIGHTHAWK-61 2347 USB wkg MacDill for pp to O-D-O (spelled out). NIGHTHAWK-61 stated he was 12 minutes out & req wx for Quantico. (EC) Turbo28 2309 USB clg Reach?. Hickam 2238 USB clg COBRA05 tanker ops online, Capt Cox at Offutt tanker cancelled, wx 0200z Hickam alt Kona, cross winds and t-storms at Hickam. Reach0259 2247 USB clg McClellan, McClellan ans but neg contact. NAVY IJ767 2237 USB clg Elmendorf req pp DSN 827-4592. McDill 2255 USB wkg Reach0602 (not hrd). Andrews 2245 USB w/ all freq req for Reach709 (no resp hrd). ASPEN33 2230 USB wkg Elmendorf for radio ck. OMNI361 (English accent)2244 USB clg Elmendorf est McChord 0015z req pp McChord CP Pirep 707 a/c type. NAVY IJ767 2243 USB clg Mainsail "w/ tfc to pass from Z7G, pp to duty office" "7ZG reporting Ops normal, QSL time 22:45" (I'm pretty sure he said Z7G once, and 7ZG the second time). SHADOW65 2231 USB clg Mainsail, McDill ans, req pp Offutt metro, told to move to 15016. SHADOW65 2235 USB wkg McDill, pp to Offutt Metro, 0130Z wx req. Reach0241 2246 USB

clg Mainsail (no ans hrd). Hickam 2309 USB wkg Reach0140 (not hrd). Reach6P7 2306 USB clg Mainsail, ans by Hickam, radio cks. BELTLOOP 2308 USB clg McClellan (no resp hrd). Hickam 2358 USB wkg Reach0077 (not hrd). (EG) Incirlik UTC? USB w/20 character EAM "For region Alpha" starting w/ "RYHN55....". (GD3) Air Force 2 0107 USB wkg Ascension w/pp to 423 DSN w/female op on AF2 requesting that Ascension call and "let them know we're almost there...estimating blocks @0115 Zulu." (HB) AF2C 1755 USB worked MCCLELLAN w/pp to a DSN 942 number, id'd as FIDDLE (maybe MIKE MIKE FIDDLE or somesuch), passing info about a "spare" (or sounds like) group for PELICAN 11. At 1939z TROUT 99 called MAINSAIL & raised OFFUTT, w/pp to ANDREWS wx. At 1949z OFFUTT worked ADJUSTMENT for a signal ck. At 1954z OFFUTT worked ADJUSTMENT for a signal ck. At 2032z, PACOM 01 worked HICKAM. ASCENSION 1854 USB worked ARIA ONE. At 2037z ALLIGATOR worked MCCLELLAN & set up data comms - she was going to perform them here until MCCLELLAN hurridly moved her to 11181. CODER 65 1436 USB called SKYBIRD & raised MACDILL for a signal ck. At 1441z ATRA 41 (sounds like) worked MACDILL w/pp to MUDBUG CONTROL, re activity at 38N 87W and a warning to "watch for A/C carriers in your vicinity." At 1541z, MCCLELLAN was up w/a 26-character EAM, at the end of which STINGBEE called & raised MCCLELLAN for NIGHTWATCH 01 wkg freqs. After a few long minutes later, MCCLELLAN popped up and asked STINGBEE for NIGHTWATCH's DSN number. STINGBEE did not have it; thanked MCCLELLAN for his work; signed off w/ MCCLELLAN; & called raised MACDILL. STINGBEE asked MACDILL for NIGHTWATCH 01's wkg freqs. Many minutes passed; STINGBEE called and raised MACDILL & reminded him that he needed NIGHTWATCH 01 wkg freqs. MACDILL advised STINGBEE that he was unable to raise NIGHTWATCH 01. At 1557z, STINGBEE called SURPRISE w/ no response. PACOM 01 0714 USB wkg HICKAM w/pp to a party that sounded like FUJI CONTROL; then w/pp to YOKOTA wx. SNOOP 42 1511 USB called MAINSAIL for a radio ck. CODY 01 (self-id'd C130) 1534 USB worked OFFUTT w/pp to a DSN 975 number, w/ CODY 01 enrt to WHITEMAN to pick up an A-10 engine, & told that he will be getting 2 not 1. At 1754z, NC9E called MAINSAIL & raised ALBROOK w/pp to a now common DSN 942 number (Jacksonville, Fl). At 1856z, NC9E worked OFFUTT w/a pp to a DSN 942 number and passed a "contact report" regarding the Sulphur Enterprise. There has suddenly been heavy P3 activity of this type on 11175. At 1902z, S4J2 worked OFFUTT w/pp to KELLY wx. NIGHTWATCH 01 1718 USB called MAINSAIL & raised MACDILL, w/pp to WRIGHT PATTERSON wx, for arrival wx at 1810z. At 1824z, LOOK 76 called MAINSAIL w/ no response. At 1943z, IAF 009 wkg MACDILL w/pp to an unid location (I missed the first part, but I suspect it was PETERSON Colorado) apparently req permission to make an approach to the airport. He was firmly refused (told no more than once), which I think ticked him off, as he politely but abruptly ended the patch and left the freq, w/ MACDILL left "hanging". At 1946z, ALOMA 05 called MAINSAIL. WAFER 71A (sounds like) 1510 USB wkg MACDILL w/pp to BLUESTAR; something about switching his "comm guard to "R" FREDDIE" (or sounds like). OFFUTT 2034 USB as lead GHFS station, w/ 20-character EAMs "FOR HAWK EYE FORCE" at 2033z, 2047z, and 2055z. One hour later, OFFUTT was up w/20-character EAMs "FOR HUSKER FORCE" (sounds like Saturday afternoon U.S. football mascots) at 2133z, 2147z, and 2155z. MUDBUG 01 1605 USB called NIGHTWATCH 01 w/no response. At 1605z MUDBUG 01 called "any station" for a radio ck, eventually raising ALBROOK and ANDREWS, w/each opr showing some "snap" in trying to work this station. At 1607z, NIGHTWATCH 01 called MUDBUG 01, followed at 1608z w/MUDBUG 01 calling "any station". OVERTONE 0648 USB called MAINSAIL; raised but did not respond to ASCENSION; and raised MACDILL, w/a pp to a common DSN 339 number (2 extensions) associated w/BOOMTOWN, who he initially id's as EVANS (static call, maybe their WB posn or whatever). OVERTONE requested "rephase W-tac"; then "request wideband asap, over." CHILL 12 1950 USB wkg GHFS station w/pp. SAM 375 2026 USB worked ASCENSION and MACDILL for pp's. At 2026z, RAZOR 02 called MAINSAIL. At 2304z, OFFUTT w/ 120-character EAM, w/apparent repeating pattern near the end of the string. KIWI 898 1734 USB wkg OFFUTT re arrival info at San Diego. TIGER 24 0641 USB worked MCCLELLAN, w/pp to RAYMOND 37 (DYESS CP) w/ billeting chatter. RAID 15 0125 USB wkg MCCLELLAN w/pp to NORDIC CONTROL/GOLD DO, and advised that RAID 15 was orbiting south of HURLBURT and had boom problems. KEYHOLE 1431 USB called YOKOTA,

but raised OFFUTT. He thanked OFFUTT, but told him he wanted YOKOTA. At 1548z, QUEBEC ZERO ECHO called SKYBIRD just after a FOXTROT broadcast on the GHFS. No response. At 1615z, SNOOP 39 called MAINSAIL, raised OFFUTT, and placed a pp to DAVIS MONTHAN. BLAY 80 (spelled) 1853 USB worked OFFUTT w/pp to ALTUS CP re a GASER ## still on the ground. TRILLION 0202 USB worked ANDREWS (who he mis-id'd as LAJES) for NIGHTWATCH wkg freqs: Z165/Z175. At 0640z, TIGER 44 worked MCCLELLAN w/pp to RAYMOND 33. (JH) IAF009: 1958 USB R/C w/ Andrews. Italian AF 2148: 2003Z USB P/P via Andrews for Nellis AFB wx (JP) REACH S109 1330 USB from Mc Connell, over the Gander area. REACH S103 tail 90533,1530 USB from Moron to Frankfurt, empty (JP2) Shark 89, 2246 USB wkg Albrook, pp Lobo w/metro wx Howard 2300Z. Beach 72, 0011 USB wkg MacDill, pp Altus CP for confirmation of refueling track-- self ID'd as acft from 92 Air Refueling Wing Fairchild AFB (WA). Romelad, 0012 USB wkg Hickam, rdo ck loud & clear. Reach 084, 2335 USB wkg MacDill, pp metro wx for Mt Home & McChord AFB's. Flindin 2136 USB wkg MacDill, req passing of data tfc advised QSY 13242 (were not hrd by either). Flindin 2142 USB MacDill -- QSY 11181 for data tfc. LC 103 2316 USB clg mainsail -- no joy. ADMO: 2104 USB wkg Albrook -- pp ops regarding posn rprt (23,16N 08,57W) & other ops matters (KW2) Incirlik 1312 USB wkg AIREVAC 10T4, w/pp to Ramstein re their 1530 WX. Incirlik 1345 USB wkg REACH 24AE (tail no. 940067, enrt EGUL-GMSL) w/pp to Hilda East. Incirlik 1354 USB wkg NAVY IH231 w/pp to European DSN 6245121 who self-id'd as 4DQ. Incirlik 1405 USB wkg AIREVAC 1004 w/pp to Ramstein command post, 1 patient. Incirlik 1409 USB wkg CANFORCE 2939 w/pp to DSN 8277261, req WX for HHAS and HDAM. V18 1429 USB calling Incirlik. Incirlik told them to 'switch to 17976'. Incirlik 1513 USB wkg Reach 0633 (C-141 @ 57N/6W, FL350) w/pp to ? Metro re Keflavik WX. Incirlik 1423 USB wkg Reach 1819 (tail no 40621) on gnd UKBB/Kiev/ Ukraine w/pp to Hilda East asking why EYVI (Vilnius, Lithuania, their next destination) is operational during daylight only. Hilda East did not know. Incirlik 1430 USB asking Coder (sounds like) 64 to call Reach 195 on this frequency and tell him to call Incirlik on 13244 (primary) or 6739 (secondary). After relaying msg successfully, Coder(?) 64, a KC-135E, told Incirlik to pass on to Mildenhall Command Post their ETA for Mildehall of 15:50 (MB3) MacDill 1929 USB wkg pp for NAVY 091 to Navy Brunswick. Andrews 2027 USB wkg pp for NOVEMBER CHARLIE 9 ECHO to DSN#942-4065. Albrook 2106 wkg pp for SHARK 25 to LOBO. McClellan 2108 USB wkg pp for GASSR 91 to UNID. McClelland 2109 USB wkg pp for CARP? 67 to DNS#867-3468. Albrook 2035 USB w/pp for SHARK 87 to LOBO. At 2046 w/pp for STALKER 87 to Howard meteo. At 2152, Ascension w/pp for REACH 1815 to HILDA. Albrook 1943 USB w/pp for SHARK 82 to LOBO & meteo. ELVIS 37 1918 USB looking for radio ck on MAINSAIL,no joy. Albrook 1944 USB w/pp for SHARK 86 to LOBO. BUFF 15 2029 USB clg any station, MacDill weak but readable. Ascension 2031 USB w/pp for REACH 23 MIKE 5 to Pope CP & meteo RAYMOND 22. Ascension 2038 USB w/pp for REACH 23 MIKE 5 to DSN#424-7152 -HITMAN OPS. MacDill 1948 USB w/pp for SHADOW 31 to DSN# 872-4800 Eglin meteo. Ascension 1936 USB w/pp for AEROVAC 40616 to Andrews CP. (MF2) JSTARS 04 0220 USB wkg Ascension w/radio ck. (MJ) Wise 81: 1335 USB wkg Offutt. pp Plantation Ops. Tech problems and eta passed. Offutt 1440 USB EAM GI47EK (+139) Also hrd on most GHFS freqs (not 6712 or 8992). SKIER 86 1345 USB wkg ? (maybe Andrews). pp DSN 583-8231 and discusses ppr for that airfield. Shifted to 11217. REACH 31AE 1215 USB wkg Andrews. pp HILDA East. Delayed out of Lakenheath "heading to Morocco TALCE at GMSL" GMSL (Sidi Slimane ?, Morocco) is about 15NM from Rabat/Sale field. OLIVE 40 1430 USB wkg McClellan. pp Offutt CP Metro and someone else. eta Offutt 1730. T5I 1340 USB clg Incirlik for 5 mins previously gets Croughton for pp COMSUBLANT CWO (on DSN 564-6442). Exercise Esteem Highly Alpha tfc. REACH 08X3: 1140 USB wkg Croughton. pp Hilda East.Hilda .tail no. is 50102 C-17A from Keflavik to Bonn. FLIGHT-CHECK 94 1430 USB wkg Incirlik. I missed their dest. but they said they wanted to go into Rabat, Morocco very soon. Also called as "November 94".Assumed to be an FAA C-29A (N94 !), from both callsigns. REACH 111 1331 USB wkg Incirlik. pp HILDA East trying to sort out an RON site after going thru at least 3 Moroccan airfields (Casablanca, Marakech and Ben Guirir to drop off cargo/pax) and confusing HILDA a bit. BUTYL: 1508 USB wkg Ascension. Ops normal msg for relay to Croughton or "CTF 67" (Com.

Task Force 67 ??) (PR) SHARK 83 2342 USB wkg LOBO PP via Albrook. (PS3) DACTL 15: (spelled) 0007 USB wkg Lajes GHFS w/pp 872 DSN, passes ETA. TITAN 19: C-130 Cherry Point? 1753 USB wkg Andrews GHFS w/pp Westover CP, ETA 1900z needs customs & agg. NAVY LA057: P-3C of VP-5 "Mad Foxes" NAS Jacksonville, Fl 1604 USB wkg Offutt GHFS w/pp re status of DASH 1, 2, & 3 (est 20 mins before they will be off the deck). NAVY LD340: P-3C, VP-10 Red Lancers, NAS Brunswick 1608 USB wkg Offutt w/radio ck. NAVY AF2C: EA-6B VAQ-209 1609 USB wkg Offutt GHFS w/pp FIDDLE, passes "op's normal' msg. I'd guess it was an E-6B (AF-62x) from VAQ-209 "Star Warriors", although AF-6xx calls are E-2C's from VAW-78. NAVY NK603: EA-6B or E-2C 1701 USB clg mainsail for radio ck, cud either be a EA-6B of VAQ139 "Cougars" or a E-2C of VAW113 "BlackHawks". NAVY WV401: C-130T of VR-53 at Martinsburg W.Va 1735 USB w/pp via McCellan to 871 DSN (Op's), passes cargo info. TITAN 19: C-130 Cherry Point? 1753 USB wkg Andrews GHFS w/pp Westover CP, ETA 1900z needs customs & agg. ATON 002: unid a/c 2206 USB wkg MacDill GHFS w/pp 431 DSN, arrived TVSV 1915z, dep TVSV 2130z, ETA Rosy Roads of 2320z. NAVY LA052: P-3C of VP-5 "Mad Foxes" , NAS Jacksonville, Fl 2231 USB wkg McClellan GHFS w/radio ck. (RB) IFOR04 1410 USB Incirlik/p/p to RamC Vicenza ?.Told Kingfish V to co-ordinate w/ Rhein Main AMCC if no pax or cargo and ck w/ Kingfish C.If so then re-frag(?) payload to terminate mission. Navy XB321 1413 USB Mainsail/Called several times -no answer.(RD3) Royal Navy 393: 2108 USB a/c eta Key West Fla 2340z & to take on fuel.(RT2) 20W7: 0921 USB wkng Ascension w/ a PP to Hilda. We ETA Blocks LWOH at 1130 we are A1 w/ 30000 lbs of cargo. We have 5 Pallets to offload. He was advised that he had become weak unreadable & to change to 15016. TERROR 19 (Spelt Phonetically on air) 1604 USB wkng Croughton w/ PP to DICTATE for satcom frequencies. Given 397.450 up & 263.850 down. Was advised that these were clear or Secure. TERROR 19 also wanted confirmation that DICTATE was on a Victor freq of 124.525 & Uniform of 236.0. DICTATE confirmed & stated these were also either clear or secure. DICTATE then advised TERROR 19 that there was a Hotel Fox freq of 8.972 & again it was "either way". TERROR 19 then wanted confirmation that he had clearance to transit TURKISH airspace. DICTATE couldn't advise so it went quiet for a few mins until SHADOW 1 came up & told TERROR 19 that he should have done this before departing RHODA. (prob ROTA, SP) He had but was just checking-in 30 mins before crossing "the line". All was OK & Diplo-clearance # was 094. (SM) REACH 0569 2049 USB wkg Ascension, inbound BIKF (KEFLAVIK) ETA.22.25, Status=A1, tail No.41689. (TW) OFFUTT 2130 USB w/26 character EAM starting FLKJED..... UZE. (VC) Navy 50511 1429 USB req pp to Presidential Radio (Andrews) via MacDill, pp cud not be accomplished, 50511 breaks and calls Andrews, req pp, Andrews advised change to Freq 117. Navy 50511 closes. (VC)

11178 unid OM Navy 363 0430 USB clg Papa Juliette Kilo re: Radio ck. At 0450, Navy 363 calls PJK again, finally at 0500Z, PJK responds w/signal quality. Navy 363 reports loud & clear and passes 'ops normal', & posn 20.20N 06.06W, that would put 363 over Mali (JC5) (PJK is the Dutch Navy, Suffisant Dorp Naval, Curacao. Posts over WUN indicated Navy 363 was probably a Dutch Navy P-3 - LOGS) BLUESTAR 1412 USB wkg unid '01' (could not make out callword) w/01 suspected Dutch a/c. The a/c was passing coded posn reports to BLUESTAR. Very unusual to hear BLUESTAR here (common Dutch Caribbean freq). (JH)

11180 OPS 5743 (sounded like) 0145 USB clg Juliette (?) Tango. At 1840 (Papa?)60 clg Papa Juliette Kilo repeatedly. (JC5) (This would probably be JWT - Norwegian Navy, Stavanger, Norway, posts over WUN indicated the 5743 was probably a Norwegian Navy Sea King out of Bodo, Norway. The "60" calling PJK surely wanted 11178 we think! - LOGS)

11181 ALLIGATOR 2038 USB worked MCCLELLAN in voice and data. MCCLELLAN 1719 USB worked REDBREAST in voice and data. MCCLELLAN 1822 USB worked MACDILL w/ voice and data. YULETIDE 1603 USB called MCCLELLAN, w/ no success. TERM 99 (sounds like) 1639 USB worked MCCLELLAN w/pp to RAYMOND 12 for an apparent brief connectivity ck, then went through the challenge process w/ MCCLELLAN to "exit the net", and was gone. (JH) Flindin 2143 USB unk data, MacDill, passed data tfc. REACH 90022: 2105 USB wkg Offutt pp 835-XXXX cancelled prior to contact. This is a 439 AW C-5 Acft that was on the ground parked at Westover AFRB (MA) (KW2). REACH 24AE 1155 USB wkg Thule pp Hilda East. TN 94-0067 (C-17) on ground at GMSL (Sidi Slimane Morocco) next to Lakenheath due to

change in orders (from Frankfurt). (PR)
11187 RAFTMAN 1547 USB worked BOOMTOWN. OVERTONE 0235 USB worked unid. (JH)
11205 Ascot 5041: Hercules, RAF 2041 USB clg Architect no joy. Architect 1103 USB w/pressure settings for RAF fields (MB3)
11214 Trenton Military 1400 USB clg Darkstar November w/ no response hrd. (PR) BANDSAW HOTEL: ART (E-3 AWACS) 1625 USB (ART = Aerial Radar Technician) wkg Trenton Military w/pp RAYMOND 24 (Tinker AFB) 'Radar Maint', after, BANDSAW HOTEL MCC (Mission Crew Commander/Coordinator) wkg same re mission options. (RB)
11217 BAYONNE 1919 USB w/pp for NIGHTWATCH 01 to 1852.(MF2) German AF 219 1228 USB wkg DHO23 then DHM91 for wx at Keflavik and Reykjavik. GermanAF 079 1350 USB wkg DHM91 (GAF Munster). Just dep Keflavik. (PR) Bayonne Global: Bayonne, NY 1704 USB Military Traffic Management Center, Command Emergency Comms Center, Bayonne, NJ, wkg RAIDER 48 w/att pp to Dobbins AFB CP, QSY 15016. (RB)
11220 Unid Asian phone net 0630 USB. Bad interference to USAF. (AW) SAM049 2254 USB wkg Andrews pp to Travis Metro 837-5549 0145 wx. Nightwatch01 2256 USB clg Andrews "on secondary" for comm ck, aft no ans SAM049 resp "Andrews is busy w/ a pp", no ans by NW (EG) ANDREWS 1923 USB worked SAM 202 w/pp's re SAM 202's crypto gear. SAM 049 1950 USB worked ANDREWS w/pp's. (JH) PACOM 01 1708 USB DV 2 + 6, dep Miramar NAS 1721z, ETA Hickam AFB: 2305z, wkg Andrews VIP. SAM 26000 1830 USB wkg Andrews VIP for signal chks and VIP pps. SAM 201 2255 USB wkg NAVY 511 & Andrews VIP. PACOM 01 1708 USB DV 2 + 6, dep Miramar NAS 1721z, ETA Hickam AFB: 2305z, wkg Andrews VIP. (JJ)
IFO 14: 1445 USB wkg Andrews pp Marine Guard Belgrade to ck on security for visit. At end of pp Andrews calls "SPAR 63" on their secondary freq - '63 not hrd here. SPAR 63 1357 USB wkg Andrews. Relay of msgs from Ramstein CP. TROUT 99 1241 USB wkg Andrews VIP for pp's. (PR) SAM 049: 1946 USB wkg ANDREWS VIP.dep 1935Z ETA 0115Z (apparently to Reno NV from ???). Placed one patch to a Washington-DC area commercial number. SAM 049 2148 USB wkg ANDREWS VIP w/ occasional p/p tfc. In a patch to his mother somebody on the flight deck confirmed the destination is Hawaii. NIGHTWATCH 01 2148 USB on freq just after the patch to chat w/ 049. Evidently both aircraft are on their way to Hawaii to support the President's visit. One a/c op asked the other "Are you up on ALE?" "Roger scanning 3 and 5" (RJL)
11226 SAM 204 1809 USB wkg Andrews VIP for signal chks and pp to Command Post. SAM 403 2250 USB w/Andrews VIP w/signal cks. (JJ)
11229 RAGTIME 1741 USB worked NOTED. NIGHTWATCH net was using this as a primary freq. At 1753z, CHALICE DELTA called & raised NIGHTWATCH 01 for some signal cks. At 1923z RAGTIME worked WOODWORK. CRABHOLE 1821 USB worked NIGHTWATCH 01.(JH) SAM 27000 0605 USB wkg Andrews VIP for a pp. (Very weak, but it sounded like the call was directed to Manila.) Then advised Andrews that they were shutting down until (again, very weak, but sounded like) 0920z. And at that time they'll be back up on F-823 (this freq). (JJ)
11232 CFC 2942 1125 USB Trenton Military wx Mildenhall + more. pp .... Ops: eta Lyneham 1305, probably have to make a wx divert, contact Lyneham Ops when approaching to arrange diversion and handling. Brize Norton mentioned as well. ASCOT2824: 1524 USB wkg Trentom Military requesting wx for Greenwood. (CM) AF1: USB w/Anderson Military requesting WX for PANC (ANCHORAGE, AK) .primary./missed secondary/ etc etc (DT2) Canforce? 2243 USB wkg Trenton Military for wx (EG) Trenton military 1953 USB w/pp for FOXTROT GULF 51 to unid. Trenton Military 1940 USB w/pp for 2953 to Trenton Ops. (MF2) CFC 2948: 1305 USB wkg Trenton Mil, Lyneham to Trenton. Selcal GH-AJ - Canadian Herc half way home. (PR)
11235 Airforce Townsville 0739 USB wkg "Striker 447"This is an Orion P3C Marine surveillance a/c out of Edinburgh WA. (AW) PATROL 06: 1203 USB wkg UNID, EE poss. German accent. posn report : 52.24N 017.25E @ 1200z, ie. over Poland.(PR)
11244 ANDREWS 2128 USB as lead GHFS station, w/ a 104-character EAM (IHXMOQ...). ALLIGATOR 2252 USB w/a 26-character EAM simulcast on 11244 & 6739. GLASSWARE 2017 USB called ANDREWS but raised THULE for NIGHTWATCH 01 wkg freqs. MCCLELLAN 1403 USB as lead GHFS station w/ 63-character EAM "FOR USS MINNEAPOLIS AND ST-PAUL" (E4GFMJ...). OFFUTT 1847 USB worked GERANIUM. At 2343z, FOGCOUNT called MACDILL and raised MCCLELLAN, w/pp request for NIGHTWATCH 01. At 2346z, MCCLELLAN as

lead GHFS station w/a 26-character EAM (P4SXUG..). At the completion of the xmsn, FOGCOUNT popped up and told MCCLELLAN that he did not get a good copy of the tfc, & req a readback. MCCLELLAN was immediately (2351z) back up as lead GHFS station w/ a 20-character EAM (P4H6TW...), followed immediately by FOGCOUNT raising MCCLELLAN and asking for a repeat of the P4SXUG string, which MCCLELLAN provides in one readthrough. At 2357z, FOGCOUNT worked MCCLELLAN w/pp to NIGHTWATCH 01 and tells NIGHTWATCH 01 that FOGCOUNT had no joy in raising NW01 on Z150, and asked NIGHTWATCH 01 to enter him into the net via the patch. NIGHTWATCH 01 begs off and tells him to try the wkg freqs again in 30 minutes (at 0030z, a station called NIGHTWATCH 01, but it went under the callsign DEERMEAT.) LONGBOAT 2127 USB called & worked THULE for a pp. OFFUTT 1944 USB as lead GHFS station, w/a 26-character EAM "FOR TACAMO PAC SECONDARY CREW." (JH) SNOOP55 1102 USB clg "GOODPOST (?) CONTROL" w/ no response. Soon after picked up Incirlik for pp to DSN 222-4632/3 - referred to as "Mission Control" Believed to be heading to Offutt. SNOOP 56 1112 USB wkg Thule. pp Banter Control (Mildenhall). McClellan: 1629 USB EAM P4PYA3 (+20) On all GHFS freqs bar 8992. SNOOP 57: 1218 USB wkg Croughton passing a Fox/EAM style msg.XFF time 1217 auth JH. PLAYBIRD: 1154 USB wkg Andrews for NIGHTWATCH freqs (Z150 + Z110). Andrews 1137 USB EAM "For TACAMO Lant Primary" - E4NV6A (+14). STAIRWAY 1237 USB w/ at least 3 EAM's. (PR)

11246 Danish AF 609: (no. ?)1325 USB wkg an UNID Danish station for what sounded like wx at Aalborg and Vaerlose and others.(PR)

11247 IFZ 50: 1220 USB wkg Architect w/selcal ck AK-CM. (British accent but I thought IFN were Bosnia callsigns for UK?) (CH) ASCOT 5967: 1229 USB wkg Cyprus Flt Watch. enrt Lyneham. 15E at 1600z, Lyneham at 2000z. selcal ck AH-KL (CH) Architect (RAF Upavon) wkg <missed it>4789 for sel-cal ck AK-BG. Architect 1240 USB wkg Ascot 4333, passing ??? WX. Architect 1253 USB wkg RAFAir 1C19 (unhrd here). Architect 1255 USB wkg Ascot 4331, posn 15E@12:40, ETA EGXW 15:55, selcall AH-GH (MB3) Gibraltar 0954 USB clg X6K for radio ck. ASCOT 3420: 1534 USB wkg Cyprus. To HKJK - Kenya somewhere.Selcal LM-DG, RAF Tristar. ASCOT 2539: 1545 USB wkg Cyprus, Akrotiri to Hanover, req wx. Selcal EG-AJ, RAF VC-10. ASCOT 2010 1223 USB wkg ARCHITECT msg relay to Cyprus eta RAF Akrotiri 1400 + req wx Selcal CF-DE - RAF VC-10 C1K XV106. (PR) ASCOT 5324 1237 USB wkg Cyprus. Selcal AK-BE.A RAF Hercules (XV223) going to Adana (Turkey). ASCOT 5229 1157 USB wkg Cyprus Flight Watch for a failed pp to Akrotiri Ops. Heading into Akrotiri then back to Lyneham. ASCOT5241: 1615 USB wkg ARCHITECT eta Prestwick 1910 for relay K.pp ASCOT Ops to ask who is handling a/c at Prestwick.Selcal AJ-LM - RAF Hercules C3 XV221. (RD3)

11413 AF-2 2205 USB enroute to Andrews AFB, ETA 0055z. 6989 sec. (AH2)

11460 ANDREWS 1543 USB worked SAM 974, & then called "50511" (NAVY 50511.)(JH) SAM 26000 0245 USB DV 2 + 17, enrt to Vietnam, via Elmendorf/Yokota, wkg Andrews Vip for pp requests. SAM 049 0015 USB wkg Andrews VIP for an attempted pp to McChord Meteo. Andrews relayed back to 049 that McChord Meteo, in effect, blew-them-off and told 049 to call someone else. EXECUTIVE-1-FOXTROT 1755 USB wkg Andrews VIP re: landing gear light. (JJ) Andrews 1922 USB w/pp for SPARKS 67,also provided some DSN# 978-4888 DSN#Andrews billeting, 978-8088 DSN#Andrews Ops. (MF2)

11466 PACAF 01 1600 USB wkg Andrews VIP "for a better freq." (JJ)

11480 SHAZAM: AM wkg ROADRUNNER w/ ARP. 17 (PS)

11494 WGY901 1805 USB called DAYDREAM and passed a HOTEL msg in the blind. Also APPLESAUCE called A____ (could not make it out.) Active callwords in this monthly activity appear to start w/ the letter "A" (Army?). At 1902z, WGY913 (probably via WGY912) called SNOWBALL. CORONADA 1651 USB called AXEL ROD, w/ no response. NIGHTWATCH 01 1832 USB worked UPPERCUT in voice and data. At 1858z, NIGHTWATCH 01 worked VARIABLE. At 1902z, NIGHTWATCH 01 worked UNWANTED. At 1926z, VARIABLE worked NIGHTWATCH 01 and exited the net. COLORBAR 1832 USB worked FIREANT. At 1837z, FIREANT worked NIGHTWATCH 01 & entered the net through the challenge process. At 1847z, CORRUGATE worked NIGHTWATCH 01 and entered the net. (JH) Service Center 1918 USB calling 203 in the clear,then went green. UNID 1936 USB being given the go ahead to proceed to March, AFB via route of their choosing (weak),second party said he would be on 340. (MF2)

11634 Ascension GHFS: Ascension Isl 0238 USB att to work U9J, no joy, QSY

8964. (RB)
12070 OUTCLASS 2038 USB called NIGHTWATCH 01 (who's monitor only for hours). At 2042z, OUTCLASS called NIGHTWATCH 01, then called CORRUGATE. TENEMENT 1955 USB called NIGHTWATCH 01. (JH) Nightwatch 01 2011 USB wkg Squadcar freq Z-211 (SF)
12823.5 CTP: NATO Lisbon Portugal 1623 CW w/ V marker (LVH)
13200 Reach9409 2314 USB wkg Hickam pp to Elmendorf Metro 0200z wx, Pirep C141. Reach2691 (not hrd) 2249 USB wkg Hickam for Metro. Hickam 2252 USB w/ Foxtrot msg, DFK 51 QD(EG) Reach 0183: 1813 USB wkg Thule -- pp Hilda East ops matters and wx for CYQX (Gander) arrival 1945Z obtained from Trenton. Reach 807P: 1817 USB wkg Thule -- pp Denali (Elmendorf AFB, AK) regarding coordination of additional refueling ops; had just refueled Reach 118 (C141 acft). (KW2) SPAR 63 2322 USB wkg Offutt dispatch, wants to know if any people there waiting for them. Said will call again in 15m for POB wants to talk to person arriving there at Offutt. HARDY 91 Heavy 2334 USB clg Thule, weak but readable. Location overhead Portland, Oregon. Req PP to Tinker AFB OK), no answer. (PS3) Elmendorf GHFS: Ak, US 2022 USB wkg REACH 0234 w/pp unid meteo, passes posn 5906N/14252W during pirep. (RB)
13206 TOPPS 11 (sounds like) 2010 USB called PLANTATION OPS. (JH)
13211 PACOM 01 1652 USB w/Andrews VIP signal chks. (JJ)
13241 SAM 681 1751 USB wkg Andrews VIP for pp to local number. (JJ)
13242 MACDILL 2036 USB worked PACOM 01, and then HICKAM worked PACOM 01. CORRUGATE 1840 USB called NIGHTWATCH 01. (JH) SPAR 58 2025 USB clg MacDill,very weak. NIGHTWATCH 01 1923 USB wkrg CORRUGATE on ZULU 215.(MF2)
13245 NIGHTWATCH 01 1958 USB called TEAMWORK. At 1959z, COURTLAND worked NIGHTWATCH 01. At 2001, FURCOAT (male and female oprs in same comm) worked COURTLAND. At 2149z, NOTED called MUSKETEER, then "any station this net." At 2150z TEAMWORK worked NOTED. (JH)
13257 Architect 1247 USB wkg Ascot 9105, ETA Brize Norton 15:00, selcall AJ-KM (MB3) CANFORCE1523 1621 USB wkg TRENTON MILITARY av wx for LGSA was advised that Olympic airways would be contacted & would handle things... good luck.(SM)
13440 SAM 204 2351 USB DV 3 + 6, wkg Andrews VIP for pps to Grand Forks AFB re: 0200z arrival, weather, and services. SPAR 66 and 67 2145 USB checking new possible freqs here w/Andrews VIP. SPAR 66, says, "Can't do 731...I've got some bad filters in my radio...can't go any lower than 8 meg." Goes to F-290 at 2145z. SAM 204 2351 USB DV 3 + 6, wkg Andrews VIP for pps to Grand Forks AFB re: 0200z arrival, weather, and services. (JJ)
13527 C: Beacon Moscow 0652 CW cont cccc (BvR)
13907 NEONSIGN 1602 USB worked NIGHTWATCH 01. (JH)
13927 DANDA 69: 2239 USB (C-141B 62nd AW) wkg AFF2CP (Carswell AFB Cmd Post?/USAF MARS?) w/ pp. over Utah enrt McChord AFB from Fla. Crew placed two phone calls using MCI's free phone calls for military personnel due to Veterans Day. AFF2CP: USAF Mars Lexington KY 2010 USB wkg "E6A". Seems as a/c id'd by a/c type (E6A). During one pp, the subject being called told the a/c to be sure and "pull in the cable (cable - VLF antenna???) before doing a barrel roll over the lake (missed name of the lake). Both parties had a good laugh at that. The person saying this obviously was military and stated that some people from the squadron were meeting at the lake for a picnic. At 2040, E6A switched over to AFF2SP to continue pp's. (DW2)
13974 NNN0COT: unid USN vsl MARS Sta 2017 USB wkg NNN0RFH: USN MARS station Southern California for pp's. Anyone know who NNN0COT is yet? (not the decommissioned Fairfax County). (DW2)
13993 AAT9HD: MARS, unk location 1621 USB wkg AFA...? (missed c/s). (AI)
13994 AAV7BB: unid MARS 1903 USB wkg ABM6NY (unid MARS). ABM6NY passed QTH as South-Central Nebraska. Tfc re: relay of msg to New York. (DW2)
14383.5 NNN0CME: USCGC Northland (WMEC-904) MARS 2105 USB wkg NNN0MPN: USMC Camp Pendleton MARS station for a pp. (DW2)
14391.5 NNN0CXB: USS John F. Kennedy (CV-67) MARS 2108 USB wkg NNN0RRC: unid USN MARS for pp's. (DW2)
14477 NNN0TDU: MARS private shore station, Falmouth, Me 1842 USB wkg unid ship NNN0CAA. (AI)
14864.5 SAM 403 1904 USB on F-466 wkg Andrews VIP on AF-1's secondary. (JJ)
15011 SAM 28000 1845 USB wkg ANDVT comms w/ Andrews VIP. (JJ)

15016 RCH 122AE: 1110 USB wkg Ascension, reporting no anti ice, potential problem, head for Ramstein or Rota. RCH 20AE: 1150 USB wkg Croughton w/pp Frankfurt AMCC, arr 1405 Rhine main, A2 for No.3 engine thrust reverser (TR) (CH) SHADOW65 2233 USB clg McDill, neg contact.(EG) Navy LV619 2227 USB wkg Albrook, pp metro eta Howard 0710Z. Moose 14 2230 USB wkg Albrook, pp Charleston metro eta 2300Z. Reach 0018, 2248 USB wkg MacDill, pp Lajes metro wx for 0045Z eta located 40N 47W. Roller 05: 2133 USB wkg MacDill -- pp Little Rock base ops wx winds/temp & ops coordination; was advised to contact PMSV on 239.8 when closer (KW2). Albrook 1958 USB making an all frequency request for SHARK 87. ALPHA HOTEL FOXTROT 5 2001 USB looking for a radio ck from Albrook. MacDill 2004 USB wkg pp for LOOPHOLE to DNS#339-4527/4528 switched to 11217. Albrook 1950 w/pp for REACH 1950 to McGuire AFB & meteo (REACH 1950 is a KC-130). At 2002, Albrook wkrg PP for EVAC 10 to AEROVAC OPS,switched to 11175. Albrook 1921 USB w/pp for SHARK 85 to LOBO. Albrook 1946 USB w/pp for LOBO to SHARK 27. (MF2) REACH 20AE 1145 USB wkg Croughton. pp AMCC (Frankfurt ?) Discussed the dropping off of a "TAL-SEA" (TALCE ?) confirmed that freqs for it are as aircrew booklets indicate so other A/C will be OK. Heading to Frankfurt for 1400 . (PR) Bayonne Global: Bayonne, NY 1714 USB Military Traffic Management Center, Command Emergency Comms Center, Bayonne, NJ, wkg RAIDER 48 w/pp to Dobbins AFB CP, ETA is 1500L, req K-loader. (RB) REACH 20W7: 0945 USB wkg Incirlik. Wanted wx for LWOH. Op didn't know the designator - a/c spelled it out as Ohrid in Macedonia. PIREP gave posn as N44 E9 (N Italy) C141 w/ a windy 239 degrees at 75 kots. REACH 7F7: 0955 USB wkg Incirlik. Wx for LICZ Sigonella (Italy).C141 Tail no. 40630 @ 39N 33E (N Turkey). REACH RS101: 1015 USB wkg Incirlik.pp to HILDA East re eta for HUEN (Entebbe, Uganda) of 1130Z, Talked about a flight plan from HKMO (Mombasa, Kenya) to LICZ (see above). Also asked about diplomatic clearance for Rawanda not available.(RP2) 20W7: 0925 USB wkng Ascension w/ a PP to Hilda. We ETA Blocks LWOH at 1130 we are A1 w/ 30000 lbs of cargo. We have 5 pallets to offload.(SM)

15038 SPAR 19 2202 USB wkg Andrews VIP here (and many other freqs) during a 16 hour non-stop flight from Pakistan. (JJ)

15048 Andrews 1913 USB w/pp for NAVY JULIETT 676,afterwards the operator at Andrews and the 676 radio tech had a discussion about Portuguese bread, must be a slow day. (MF2)

16117 FOXTROT-9-INDIA 2252 USB w/EAMs. (JJ)

16862 VTR: 0902 0902 CW marker (EW) (VTR is Vishakhapatnam Naval, India - LOGS)

16938 VTG8: COMCEN Radio Bombay, India 0825 CW marker (EW) (Indian Navy - Logs)

16950 9MB: Navy Georgetown, Malaysia 0831 CW marker (EW)

16986 CTP: NATO Lisbon Portugal 1703 CW w/ V marker (LVH)

17018 EBA: Madrid Naval Radio, Spain 0859 CW marker (EW)

17050 4XZ: Haifa Naval Radio, Israel 0908 CW marker (EW) 4XZ: Israeli Naval Haifa Israel 1638 CW w/ V marker (LVH)

17227.6 ZLO: New Zealand Navy, NZ 1122 CW marker (EW)

17780 Cape Radio:1828 USB wkg 'King xx' (unheard),telling him that 'his freq was 5822 At 1836, they worked 'King 22' (also unheard, same a/c?) w/ exactly the same msg (GT)

17976 Reach V5 1059 USB Incirlik calling, -> 11175 -> 6712 (clg Croughton). Also hrd Lajes clg the flight on 8968 later. pp Mildenhall PMSV. COGNIZANT 1629 w/26-character EAM, simulcast on 9016, 6739, 11244, & 17976. (JH) Incirlik 1430 USB wkg V18 w/pp to ? (Incirlik weak, a/c unheard here) (MB3) HARDY 91 Heavy 2336 USB clg Thule, no joy. (PS3) LANCER 12 1455 USB wkg Andrews pp Euro DSN 622-2610.12 says no comms on VHF/UHF/X-ray (?) or 5/10 Meg HF and requests they are active on all channels in 1min. (PR) Trenton military 1955 USB w/pp for CANFORCE 57 Port Au Prince to unid #. (MF2)

18018 Cyprus Flight Watch 1317 USB w/ weather warning broadcast for strong winds at Akrotiri who are obviously not used to strong winds they were only 30 knot gusts ! (PR)

=MISC=

13.2 STAVANGER Omega Transmitter 1000 100KW W-Norway. (GC)

17.2 SAQ 0900 CW w/"CQ CQ DE SAQ.." followed after a while by the commemorative msg. (GC) SAQ 1123 CW w/handkeyed "VVV DE SAQ" during

a short period of low local QRM. (KB)
212 NDB UCF: Cienfuegos, Cuba 0610. (BH2)
244 NDB HF: Hartford, CT 1420. (BH2)
258 NDB ORJ: Corry, PA 0421. (BH2)
272 NDB RU: San Marcos, TX 0448. (BH2)
273 EVI: NBD Unid 1538 CW. (AI2)
277 NDB YLC: Lake Harbour, NWT, Can. 0450 (BH2)
278 NDB UBA: Baracoa, Cuba 0508. NDB Y: Unknown Canadian beacon 0644 (BH2)
281 NDB CA: Cartwright, NFLD, Can. 0526 (BH2)
283 NDB PT: Pelee Island, ONT, Can. 0530 (BH2)
287.3 HA: NBD Mt Carmel Lt., ISR 0615 CW. (AI1)
290 NDB TVK: Centerville, IA 0640. (BH2)
300 NDB ABL: Ambalema, Columbia 0646 (BH2)
309 BGN: NBD Ben Gurion, ISR 0606 CW. (AI2)
317 HAF: NBD Haifa (Air Force), ISR 0331 CW. (AI2)
328 PHA: NBD Paphos, CYP 1102 CW. (AI1)
336 IRM: NBD Jerusalem, ISR 0608 CW. (AI2)
341 BUZ: NBD Busher, IRN 1827 CW. (AI1)
343 DKA: NBD Dhekelia, CYP 0620 CW. (AI1)
350 NDB LI: Fredrickton, NB, Can. 0510. (BH2)
351 BOD: NBD Beirut, LBN 0623 CW. (AI1)
361 AD: NBD Aden, YEM 1905 CW. (AI1)
368 RMD: NBD Ramad David, ISR 1532 CW. (AI2)
372.5 KTN: NBD Kariatain, SYR 1705 CW. (AI1)
380 NDB AJL: Abejorral, Columbia 0622. (BH2)
420 EA: NBD unid 1915 CW. (AI1)
435 LCA: NBD Larnaca, CYP 0749 CW. (AI1)
3810 Unid 0615 AM time signal station w/simple one tone beep on the second, skipped the half minute beep & had ann at the 54 second mark which I believe was in Spanish. (JG) (HB2IOA, time signal station in Guayaquil, Ecuador op by Instituto Oceanografico de la Armada -LOGS)
4224 UNID 2327 CW Slow morse, good sending, figures, w/ no particular grouping. ends w/ "=13700730 73298r? no pk ga qrq ok" then apparently offair (DW)
4277 2RC8: ?? UK -- Not Sure CW Marker (MS5)
4469 Unid 1343 USB OM giving a sermon about the second coming of Jesus - sounded like he was from Southern US.(TB)
4512 Q8: 0400 USB c/s's in net Q8 S2S, T, BANNER.(AM3)
4543 Unid: 0133 USB YL/GG??? followed by musical tones then numbers and letters (AM3) (BND Germany - LOGS)
4567 Unid Japanese phone net 0718 USB. (AW)
4665 Unid 0243 AM : YL in EE rptng "Victor Lima Bravo Two "(AM3) (Mossad numbers station - Logs)
4686 Unid: 1710 USB refs made to "sending out a recovery patrol"also refs to "4A.12364" "B.122"this freq was active last yr w/ tfc in Western Sahara i think that this may be some sort of UN station any info anyone ??? (PO)
4765 unid 2033 USB several stns - all female operators - in a net in RR(MB3)
5068 7PNK: 1356 CW clg "9ADD" (CK)
5082 DV6TY 1115 CW repeating "DV6TY" (CK)
5108.5 Unid Number Station 1433 LSB preamble of 3 ascending tones. Then YL reading GG number groups. ended w/ ende. ende. 15 min's total.(SM)
5170 Unid 0050 AM : YL EE rptng "Sierra Yankee November Two" (AM3) (Mossad numbers station - Logs)
5203 WEGB: 2128 CW wkg "WFIZ" (CK)
5230 SYN: 0555 (ENIGMA classification E-10) sending the special marker "SYN44" instead of the regulars SYN SYN2 etc.(CK) (Mossad - LOGS)
5277 PANTER 2014 USB advises 37 CHARLIE that 45 MIKE a flight of 4 will be heading into PANTHER 400 from the south. (MF2)
5284 Unid: 0400 USB YL/GG rptg "Whiskey Lima" w/ electronic tones. 3/2FGx2 at 0405. Off at 0413 w/ "ende". (JM4) (BND Germany - German "Two Letter Station - LOGS)
5301 OLX: 0600 CW changed to USB then YL in Arabic??? Unid 0310 USB : OM in GG??? w/ 5/g's, distorted, muffled. (AM3) (MOI Prague in Czech - LOGS)
5336 ELAL: 1149 CW clg "IMKC" (CK)
5395 Various 0253 USB SS comms between "Monterey", "Mazatlan" and various others. Mexican Police/Army?? (DW2)
5424.7 Lima: 1658 USB clg any station --no joy (KW2).

5610 Unid 0700 CW "010/00" repeated until 0705Z, then ended w/ "BT BT 0 0 0". Short (one dash) zeros. Strong signal S9+20 here in Athens (CK)
5702 unid 1640 USB "DO" clg "WV" in FF several times, no joy (MB3)
5772 PPT88: unid 0732 CW w/VVV VVV PPT88 PPT88. (DW2)
5777 13: unid 0812 USB wkg 10. Had 3rd party on the phone. Off the air at 0813. (DW2)
5841 SHARK 13 1951 USB receiving posn report from SWORDFISH 60. At 1954 PANTHER clg SHARK 13 requesting info SWORDFISH 55 who is at Z10. At 2009 SHARK 13 clg PANTHER, req switch to MR-BAND (INMARSAT). At 2104 SWORDFISH 60 calling SHARK 13,60 passes ops report and request 13 assume his guard. At 2108 PANTHER calls SHARK 13 and informs 13 that PANTHER has SWORDFISH 55 guard. At 2111 SHARK 13 requests PANTHER to pass them SWORDFISH 55 operational state. PANTHER asks SWORDFISH 55 if there heading directly to ALMIGHTY. SHARK 19 1926 USB requests SHARK 13 to shift to green. At 1936 93ALPHA calling in a posn report to PANTHER, 93 wants to if there are any prisoners to pickup upon arrival. PANTHER reports no prisoners just pickup the team. SWORDFISH 55 at 1955 clg SHARK 19,19 passes 55 his mission plan at takeoff. At 1944 37 CHARLIE requests SHARK 13 shift to green. At 2006 93 ALPHA passes to PANTHER he is airborne w/ 3 pob and 10 hours of fuel. At 2008 SHARK 19 rerq PANTHER if SWORDFISH 81 is airborne,19 then requests that 81 stay put. At 2019 93 ALPHA passes ops normal to PANTHER. (MF2) SHARK 13: 1408 USB wkg PANTHER (SL)
5911 Unid 0830 CW w/5LGs, "bt 780 30 08:28:42 $996 bt" (PB)
6241 Unid Pacific island phone net 0953 USB.(AW)
6613.8 Unid Pacific Island phone net 0940 USB in Aero band. (AW)
6735 unid 1545 USB Two stns (men) chatting in an Arabic language. Both very strong into Central Europe. One sounding as if there was jet-engine sound in the background (MB3)
6805 RBK72 2025 USB Radio Moscow Feeder (MB3)
6810 Russian Man numbers station 0400 AM carrier on 0400 however broadcast didn't begin until 0415! I've never seen, nor hrd of this station starting on a fraction of the hour before. OM/EE (unisex voice) 5FGx2. Recipient was 657. (JM4)
6844.5 Unid 0221 CW sending dots continuously (AM3)
6855 unid 1717 USB 2 men chatting in an Asiatic language (MB3)
6871 HEP7 1238 CW V-marker (CK) (Kontonspolizei Zurich - Interpol - LOGS)
6913 Unid: 2301 CW poss Czech user w/5fgs (DG)
6995.5 Unid Malaysian phone net 1014 LSB (AW)
7606 Unid 0445 AM YL rptng "cio2" in ee (AM3) (Mossad numbers station - LOGS)
7922 Unid 0730 USB EE-language net daily; also 0830, 1600; mentions rigs & drills & referred to as "Tripoli". (JD2)
8000 JJY: Tokyo Time Sta 1513 AM. (DW2)
8089 Unid Pacific Island phone net 1030 USB in marine band. (AW)
8141 Unid: 0015 CW 5/fg's signoff= 0030 (AM3)
8142 OLX: MoI Prague 1307 USB 5FGs (PB)
8160 Russian Man numbers station 0327 AM middle of the broadcast, YL/EE (unisex voice) w/ 5FGx2. Broadcast ended at 0349 w/480 480 173 173 00000. (JM4)
8187 Unid: 0210 AM SS/f W/5LGs Poor audio. (PS)
8638 VNG: Sydney Time Station Australia 1204 w/ time ticks (LVH)
9123 B53D: and AU44 1437 CW w/ number/letter groups. (JM)
9123.5 U41: 1639 LSB w/msgs for an unid station. Weak signal in Central KY. Similar to LSB stations logged last Friday on 8170.5 and 8180.5 kHz (JM)
9251 MI6 numbers station 2140 USB YL/EE 5f tfc. At 2200, up w/ Lincolnshire Poacher tune. (DW2) MI6 Cyprus 2000 USB LP/E3 YL/EE W 73886 ID, many rpts then 5gps, //6959 (RH2)
10452 CIA Number stn 1020 USB 5FG's by YL. Each group repeated twice. (AW)
10493 WGY 912: 0007 USB ann re closing station until Monday morning 0800 (a.m.) local (KW2).
11021 Unid 1056 CW "UMA qsa qsy" (PB)
11111.2 Unid Possibly Middle East or North Africa. 0447 USB Arabic comms between 3 stations weak but readable. (PS)
11117 unid 1257 CW 28WPM repeating 341 3 times, w/ 4 long dash between.(ED)
11170 unid numbers stn 1234 USB female w/Russian accent w/5LGs using names like 'peter susan william nancy henry' and repeating each group. Transmitter had sound of a cooling fan in the background and sounded like 'Russian home brew' Off the air @1239. (MB3) (Nancy Adam Susan

numbers station -LOGS)
11220 Unid Asian phone net 0630 USB. Bad interference to USAF. (AW)
11380 unid 1518 USB pp (man and woman) in Greek. (MB3)
11416 OLX 1157 CW Encoded msg to "146"(CK)
11618 Unid numbers 1345 AM? off @1351 UTC w/open carrier: male w/5FG's in SS ..very strong signal,distorted, @1354UTC a quick burst of morse code w/ the last dah (or dit) held for about 20 seconds then no carrier. (HB)
11630 Unid numbers 1404 Mode? off @1417, female w/5FG's in SS, very readable ...many of the groups were the same as the previous log. she ended w/finale three times. (HB)
13225 Alia 'Base' 1244 USB wkg Alia ??? re ETA Amman (MB3)
13375 unid numbers stn 1530 USB very strong female synthesized 'British English' voice w/5FGs. Off air@1545 after sending a short melody for 30 seconds or so, also at 1430. (MB3) (Lincolnshire Poacher -LOGS) Lincolnshire Poacher 1901 USB YL/5FG. (RB)
13890 unid 1345 USB 2 males in Spanish (QSYed here from 13905) (MB3)
13905 unid 1343 USB 2 males in Spanish, mentioning '13890' (MB3)
13907 Unid station 2314 USB sending ALE pulses (LVH)
14487 Lincolnshire Poacher 1033 USB w/5fgs (EW) Unid numbers station 1225 USB w/very British YL w/5FG's. (RH)
14686 ATLAS 1935 USB clg 940 for 1/2 hour status report. (MF2)
14711.2 unid 1340 USB male in Italian, one side of dx QSO? (MB3)
14996 RWM: Time signal Moscow 1140 CW "cq de RWM" (PB)
15682 Lincolnshire Poacher 1028 USB Numbers station 5fgs (EW)
16084 Lincolnshire Poacher 1030 USB Numbers station w/5fgs (EW) MI6 CYPRUS 1200 USB LP/E3 YL/EE W 48401 ID, //15682 , heavy jamming! Unid: 1300 USB LP/E3 YL/EE //15862 & 14487. heavy jamming (RH2)
16307 UNID 1535 CW As if sending telegram. Frequency not a harmonic of a ship's 8 mhz freq (DW)

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(ML2) Murray Lehman, Perth, Australia: Icom R-71E, R9000, M7000v7, M8000v5
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(PB) Piet Bongers, the Netherlands: FRG100
(PJ2) Paul Jones, Birmingham, England
(PO) Pat O'Shea, Ireland, ICOM R71E With Fan Vertical Antenna
(PR) Paul Robbins, Nuneaton, Warwickshire, England: IC-R72
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(RO) Richard Oemar H., Indonesia
(RP2) Roger Preston, NW of London, UK, Sony ICF2001 fed from a half size G5RV through an MFJ-965 "ATU"
(RT2) Robert Thompson, Kilgore, Tx, USA: R390A, FRG100, R-8, NRD535D, M900/M6000v9 Hoka Code 3
(SB) Steve Bottom, Cairns, Australia: FRG7700
(SF) Steve Fisher, SE Ohio, USA
(SL) Steven Lare, Holland, Mi, USA: Drake R-8

(SM) Stuart Mcmurtrie, Surrey, England, HF-150 & 25 ft of wire.
(SS) Stan Scalsky, Leonardtown, Md, USA: IC-R71A, M7000, Code 3
(SZ) Steve Zollo, Adelaide, Australia
(TB) Tim Braun, Haymarket, Va, USA: FRG-100
(TK) Takashi Kuroda, Tokyo, Japan: WJ HF-1000/Racal RA67906M R2174(P)URR, M7000 /8000
(TO) Tony Orr, Reston, Va, USA: Lowe HF150, Datong FL-2
(TW) Tony W.??
(VC) Victor I. Culver
(WT) Wade Taylor, Glendora, Ca, USA

Abbreviations Used

//	Parallel with Frequency	pp	Phone Patch
5FG's	5 Figure Groups	PP	Polish language
5LG's	5 Letter Groups	R/T	Radiotelephone (ship/shore phone)
a/c	Aircraft	rdo	radio
ARP	AIREP or Air Report	re	Reference/Regards
ck	Check	req	Request
cud	Could	RR	Russian language
dep	Departed	SAR	Search & Rescue
dx	duplex	sta	Station
EE	English language	sx	simplex
enrt	En route	tfc	Traffic
f	female	TG's	Telegrams
FF	French language	tlx	telex
GG	German language	unid	Unidentified
hrd	Heard	unk	Unknown
m	male	vsl	Vessel
msg	Message	w/	with
MIB	Maritime Info Broadcast	wkg	Working
nx	News	wx	Weather
posn	Position		

== END == FIN == ENDE == FINE == FIM == KONETS ==

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