

EUNL1998  
EUROPEAN UTILITY NEWSLETTER 1-98

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Hi there!

A Happy New Year to all PVR`s (paper version readers) and IR`s (Internet readers) and welcome to the first edition in new 1998. We are starting again with some nice stuff. Thanks for all the X-mas greetings which reached me!

		N D B				
247	0224	GM	Gomeł	BLR	id	zeTC
255	0148	H	wrocław-Strachowice	POL	id	zeTC
258	0106	RAD	Radovest	BUL	id	zeTC
265	0140	KAV	Kavran-Pula	HRV	id	zeTC
267,5	0146	OPW	Bucuresti-Otopeni	ROU	id	mo76+zeTC
269	0712	BH	Blavandshuk	DNK	id+dash	ti26
274	0114	JL	Jalta	UKR	id	zeTC
275	0016	VG	Haugesund-Vaga	NOR	id	zeTC
276,5	0019	BW	Bremen west	D	id	zeTC
277	0018	GOL	Golyama	BUL	id+tone	zeTC
284	0126	VN	Capo Vaticano Lt.	I	id+tone	zeTC
284	0152	GRN	Gorna	BUL	id+tone	zeTC
284,5	0055	PR	Porkkala Lt.	FIN	id	zeTC
285	0630	DU	UNID	?	id (8x=1min)	zeTC
285	1648	PDV	Padova	I	id	moI
287,3	2331	HA	Haifa	ISR	id+tone	mo76
288	0005	DW	Szymany	POL	id	zeTC
291	1652	CF	Capo Ferro	I	id+tone	moI
297	1018	CH	Civitavecchia	I	id+tone	moI
298	1315	LI	Livorno	I	id+tone	moI
300,5	0020	LA	Lista	NOR	id+dash	zeTC+ti26
306	1020	PAR	Parma	I	id	moI
306,5	0434	UT	Utsira	NOR	id+tone	mo76
309,5	0137	OD	Oddesskiy Lt.	UKR	id+tone	zeTC
309,5	0140	TR	Tarkhankutskiy Lt.	UKR	id+tone	zeTC
309,5	0141	SW	Khersones Lt.	UKR	id+tone	zeTC
309,5	0142	EÄ	Yevpatoriyskiy Lt.	UKR	id+tone	zeTC
309,5	0716	WE	Wangerooge	D	id+dash	ti26
313,5	2320	CM	Cromer	G	id+tone	mo76
314	2240	PQ	Porquerolles Lt.	F	id+tone	zeTC
317,5	0010	TRP	Trapani	I	id	zeTC
319	2115	VAR	Stavanger/Sola/Varhaug	NOR	id	mo76
320	0631	HA	Hannover/East	D	id	mo31
321	0136	VAR	UNID (Varhaug/NOR/319k, ed)	id	id (8x=1min)	zeTC
321	0742	OST	Ostia - Roma/Fiumicino	I	id	moI
322	2230	KOR	Helsinki-Korsoe	FIN	id	zeTC
323	1830	ONC	Charleroi/Gosselies	BEL	id+tone	mo76
325	1650	DH	Oskarhamn	S	id	zeTC
325	2024	DP	Diepholz	D	id+tone	mo76
325	0736	FA	Figari/Sud Corse	F	id+tone	moI
325	2150	KAU	Kaunas/Karmelava	LTU	id	mo76
325	0737	VIC	Vicenza	I	id	moI

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326	2231	OMA	Omastrand	NOR	id	zeTC
328	1654	KAM	Ljubljana/Brnik/Dolsko	SVN	id+tone	moI
330	2014	SRN	Saronno for Milano	I	id	mo76
331	2233	TE	Thisted	DNK	id	zeTC
331	1935	DEC	Decimomannu	I	id	moI
332	1947	FAR	Faro	POR	id	moI
332	0632	HAE	Hannover	D	id	mo31
333,5	2226	VOG	Voghera	I	id	zeTC
337	1959	MY	Myggenaes	FAR	id	mo76
338	2008	F	Östersund/Froson	S	id	mo76
338	1035	NC	Nice	F	id+tone	moI
340	2234	KAI	Utti-Kaipainen	FIN	id	zeTC
340	1955	BLK	Banja Luka	BIH	id+tone	mo76
340	1027	ISA	Istrana	I	id	moI
341	1913	NKS	UNID	?	id (12x=1min)	zeTC
341,5	2152	R	Rzeszow/Jasionka	POL	id	mo76
343	2152	KUS	Kaunas/Karmelava	LTU	id	mo76
345	2240	BN	Kristiansand/Birkeland	NOR	id	zeTC
345	0741	FW	Roma/Fiumicino	I	id	moI
348,5	0213	LG	Liege-Bierset	BEL	id	zeTC
350	2327	LAA	Oulu/Laanila	FIN	id, vy weak, QRM `UK`	dmRU
354	0744	FE	Roma/Fiumicino	I	id	moI
354	2108	KN	UNID	?	id	mo76
355	0215	KNG	Bad Koenig	D	id	zeTC
355	2109	J	Varkaus	FIN	id	mo76
355	0748	VIL	Verona/Villafranca	I	id	moI
356,5	2114	SHU	Schupberg	SUI	id	zeTC
357	1700	SME	Olbia/Costa Smeralda	I	id	moI
358	0633	HW	Hannover/west	D	id	mo31
358	2137	LA	UNID	?	id+tone	mo76
365	1933	VS	UNID	?	id (7x=1min)	zeTC
366	1946	SF	Falkoeping	S	id	zeTC
368	0226	BYC	Bueckeberg	D	id	zeTC
369	1943	BP	Bastia/Poretta	F	id+tone	moI
370,5	1956	LB	Aengelholm	S	id	zeTC
371	2027	LEV	Cuneo/Levaldigi	I	id	mo76
371	0752	RIV	Rivolto	I	id	moI
372	0335	ODR	Odderoy	NOR	id	ti26
374	2122	DHR	Dahra/warehouse 32	LBY	id+tone	moI
375	0750	CV	Calvi/St. Catherine	F	id+tone	moI
375	2136	TRZ	Trzebnica/Lubin	POL	id	mo76
380	2334	BRI	Bristol	G	id	mo76
381	0610	AB	Akraberg	FAR	id	zeTC
381	2244	ESP	Helsinki-Vantaa	FIN	id	zeTC
383	2238	LST	Lista	NOR	id	zeTC
384	1959	HNS	Hoeynes/Sandane-Anda	NOR	id	zeTC
385	0448	BO	Zadar/Bokanjac	HRV	id	mo76
385,5	0449	KDN	Tunis/Carthage	TUN	id	mo76
386	0237	PTB	Pusztaszabolcs	HNG	id	zeTC
388	1634	GUI	Guidonia	I	id	moI
390	1720	ITR	Istres/Le Tube	F	id+tone	zeTC
392	2019	RAN	Lappeenranta/Ranta	FIN	id	mo76
393	2014	TAT	Molde/Tautra	NOR	id	zeTC
394	2154	JOK	Kauhajoki	FIN	id	mo76
394	1636	MEL	Metlika	SVN	id	moI
394	2128	NV	Nevers/Fourchambault	F	id+tone	mo76
395	2336	LAY	Islay	G	id	mo76
398	2035	K	Arad	ROU	id	mo76
399	1034	LEZ	Nice	F	id+tone	moI
400	2244	KO	Utti	FIN	id	zeTC
400	0243	FC	Svir	BLR	id	zeTC
402	1730	CAR	Carbonara/Sardinia	I	id	zeTC
402	0245	ORW	Paris-Orly	F	id	zeTC
402	1638	CAR	Carbonara	I	id	moI
403	0246	HAB	Hammelburg	D	id	zeTC
403	0047	TLC	Tulcea	ROU	id	zeTC
404	0603	NL	NoIsoe	FAR	id	zeTC
406	2156	MO	Mogilev-Podolsky	UKR	id	mo76

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407	2140	GAR	Dublin-Garristown	IRL	id	zeTC
408	2038	W	Utti	FIN	id	mo76
409	0304	NCS	Nacycserkesz	HNG	id	zeTC
412	0746	CIA	Roma/Ciampino	I	id+tone	moI
414	2253	SLB	Oslo-Solberg	NOR	id	zeTC
416	0358	KUN	Kunovice	CZE	id	zeTC
416	0311	TEST	UNID	?	id (14x=1min)	zeTC
416	2135	V	Vodochody	CZE	id	mo76
417	0735	PRT	Florence/Peretola	I	id	moI
420	0554	ZV	Tuzla	BIH	id+tone	zeTC
420	1031	GS	Pula	HRV	id+tone	moI
421	0552	SAL	Zadar-Sali	HRV	id	zeTC
421	0314	WM	Vladimirets	UKR	id	zeTC
421	1642	FN	Roma/Fiumicino	I	id	moI
427	0634	BRU	Braunschweig	D	id	mo31
427	1320	FER	Ferrara	I	id	moI
431	1907	KBA	Karlsruhe/Baden-Baden	D	id	mo76
432	0428	RO	Goerlitz-Rothenburg	D	id	zeTC
432	2021	AKU	Ivalo	FIN	id	mo76
434	2300	GR	Gorka	RUS	id	mo76+zeTC
435	2124	ZBN	Zweibruecken	D	id	mo76
450	0054	PDV	Plovdiv	BUL	id+.	mo76+zeTC
473	2312	IB	Tallinn-Ulemiste	EST	id	zeTC
473	2129	LD	Kishinau	MDA	id	mo76
478	1541	AG	UNID	?	id	mo76
480	1317	VIB	Viterbo	I	id	moI
493	2134	KR	Krasnodar/Pashkovsky	RUS	id	mo76
516	1543	XU	Namest nad Oslavou	CZE	id	mo76
521	2334	BSW	Bucuresti-Bamesa	ROU	id	zeTC
525	2327	PL	St. Petersburg-Pulkovo	RUS	id	zeTC
525	2336	CH	Chernyakhov	UKR	id	zeTC
526	0104	BRV	Brasov	ROU	id	zeTC
554	0413	OG	UNID	?	id (2x = 1 min)	dmRU
563	0428	OK	UNID	?	id (1x = 1 min)	dmRU
610	0420	PZ	UNID	?	id (6x = 1 min)	dmRU
633	0022	BE	Berezhany	UKR	id	zeTC
635	2311	VX	Minsk	BLR	id	zeTC
640	2310	AO	Riga	LVA	id	zeTC
670	2023	AU	UNID	?	id (12x = 1 min)	dmRU
713	1907	PT	Pitch	BLR	id	zeTC
742	2232	WA	UNID	?	id	dmRU
823	2240	KE	UNID	?	id (4x = 1 min)	dmRU
823a	2242	MH	UNID	?	id	dmRU
825	2236	YK	UNID	?	id (2x = 1 min)	dmRU
940	2031	UD	Chudovo	RUS	id (2x = 1 min)	dmRU
995	2247	DW	UNID	?	id (8x = 1 min)	dmRU
1030	1611	NI	Nikolayevka	UKR	id	zeTC
1046a	2048	UR	UNID	?	id+dash (4x = 1 min)	dmRU
1290	2242	TU	Belyi	RUS	id (2x = 1 min)	dmRU

(moI = mo76 QTH near Siena/Italy; mo31 = mo76 in Hildesheim)

## F I X E D

2357,5	1945	OVK	Ny Aarhus	DNK	cw `naws de ovk....`	pcG
2527	2054		unid	?	cw msg, 5ng, handkeyed, err.	ti26
3051	0734		RAF Kinloss	G	USB wkg RESCUE137 for wx	ti26
3053	2053	FDG	AF Bordeaux	F	cw-vvv	ti26
3090	2110		Ny St. Petersburg	RUS	cw wkg Channelmarker L	ti26
3142,3	2308	FDG	AF Bordeaux	F	cw-vvv	ti26
3175	2114		RUSNy Tashkent	UZB	cw wkg channelmarker v	ti26
3195	2057		Ny Ustinov	RUS	cw wkg channelmarker R	ti26
3258	2118	JIP9	unid	?	cw clg KBH6, waiting	ti26
3314	2059	HEP3	Interpol Zurich	SUI	cw-vvv	ti26
3357	2114	4MQD	unid, tactical	?	cw clg 7BZF	ti26
4048,5	1708	F	Navy Vladivostok?	RUS	cw-channelmarker	dmRU
4079	1643	RMP	Navy Kaliningrad	KAL	cw-reo de rmp, navip nr424	dmRU
4194	1803		Spy-network o03 (unid)	?	USB wkg prefaxGLOCKENSPIEL	ti26
4238	2041	VTP4	Ny Vishakapatnam	IND	cw, vvv de vtp4/5/6	pt53
4241,3	2043	4XZ	Ny Haifa	ISR	cw, vvv	pt53

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4461	0109		Spy-network X23(MOSSAD)	ISR	AM wkg msgs, 5lg, 41 groups	ti26
4558	0030	C	Navy Moscow	RUS	cw-channelmarker	ti26+dmRU
4558	0031	S	Navy Arkhangelsk	RUS	cw-channelmarker	ti26+dmRU
4558	2130	RMP	RUSNy Kaliningrad	KAL	cw wkg channelmarker P	ti26
4575	0028	V	Navy Khiva	UZB	cw-channelmarker	dmRU
4598	2331	FDG5	AF Chartres (see QSL,ed)	F	cw-vvv	ti26
4604	2133		unid	?	cw cont. 514 514 514 514	ti26
4910	0511		Kumir-08, Kumir-34	RUS	chat in RR	dmRU
5010	1935	FDG5	AF Bordeaux-Merignac	F	cw-vvv	ai47
5342	,5 2140	FDY	AF Orleans	F	cw, vvv	pt53
5437	0145		Spy-network X35(MOSSAD)	ISR	AM wkg msg, 5lg	ti26
5678	1745		UNID	?	cw, 5L-groups	pt53
5680	1253		Watchdog 94	G	USB,E,wkg Kinloss Rescue	pt53
5701	,5 2212	FDE14	AF Contrezeville	F	cw, vvv de fde 14	pt53
5723	,5 1614	FDG	AF Bordeaux	F	cw-vvv	pt53+ti26
6382	2216	TBA5	Ny Izmir	TUR	cw, vvv de tba, tbj, tbo	pt53
6840	1737		Spy-network X48(MOSSAD)	ISR	AM wkg msg 5lg	ti26
6841	1331	FDG5	AF Bordeaux-Merignac	F	cw-vvv	ai47
6959	1904		Spy-network LP04 (MI6)	CYP	USB wkg msg for 96863	ti26
7337	2106		Spy-network LP05 (MI6)	CYP	USB msg for 30431	ti26
7433	0942	FDG5	AF UNID (Bordeaux,ed)	F	cw-vvv	pcG
7472	,5 1030	FDY	AF Orleans	F	cw-vvv	ti55
7483	,5 0827	SNN299	MFA Warszawa	POL	cw wkg id in F1A-mode	ti26
7576	1036		unid	?	cw wkg msg 5lg, cyrilic	ti55
7671	,5 0830	FDI8	AF Nice	F	cw-vvv	ti26
7805	0930	FDG	AF Bordeaux	F	cw-vvv	pcG
7834	,5 1113	FDY	AF Orleans	F	cw-vvv	pcG+ti55
7863	,5 0955	SPW	Warsaw R.	POL	cw-de spw qsx...	pcG
7871	1016	LN2A	PTT Oslo	NOR	cw id + synch + phasing	ti26
8067	1127		unid	?	cw msgs 5lg	ti55
9145	1509	RIWR	unid	?	cw clg RCKER, no resp.	ti26
9186	0845	HEP9	INTERPOL Zurich	SUI	cw-vvv	ti26
9219	1512		Spy-network E33 (CIA)	USA	AM wkg msg 5ng	ti26
9242	1515	CW7N	unid	?	cw wkg msg 5ng to unid	ti26
9251	1905		Spy-network LP09 (MI6)	CYP	USB wkg msg for 96863	ti26
10247	1521		Spy-network E35 (CIA)	USA	AM msg 5ng	ti26
10314	1045	SNN299	MFA Warszawa	POL	cw wkg id in F1A-mode	ti26
10314	1942	SNN299	MFA Warsaw	POL	cw c/s id mkr	pcG
10320	1225		UNID	?	USB, Rus tfc	wk08
10352	1047		Spy-network X69(MOSSAD)	ISR	AM clg CIO2	ti26
10407	1017	LN2A	PTT Oslo	NOR	cw id + synch + phasing	ti26
10420	1524	FDG5	AF Chartres (see QSL,ed)	F	cw-vvv	ti26
11210	0854	FDI8	AF Nice	F	cw-vvv	ti26
11471	1054	SNN299	MFA Warszawa	POL	cw wkg id in F1A-mode	ti26
11545	1906		Spy-network LP11 (MI6)	CYP	USB wkg msg for 96863	ti26
12705	1209		UNID	RUS	cw,tfc ment. RTF,then USB	pt53
13012	1534	AQP6	Ny Karachi	PAK	cw, vvv de aqp 2/4/5/6/8	pt53
13528	1058	RCV	Ny Moscow	RUS	cw wkg channelmarker C	ti26
13528	1058		Ny Arkhangelsk	RUS	cw wkg Channelmarker S	ti26
15698	1100		unid	?	cw wkg continuous 316	ti26
16228	0947		unid	?	cw wkg msg 5lg	ti26
16332	0948	RCV	Ny Moscow	RUS	cw wkg channelmarker C	ti26
16332	0948		Ny Arkhangelsk	RUS	cw wkg channelmarker S	ti26

## M A R I T I M E

1650	1946		CROSS Corsen	F	USB,F,wx for Irland	pt53
1677	0433	EJM	Malin Head R.	IRL	USB,E, mv, nav. warnings	pt53
1692	1933	LGQ	Rogaland R.	NOR	USB,E/norw., storm-warn.	pt53
1743	2008	LMJ	Jan Mayen R.	JMY	USB,E, nav. warnings	pt53
1785	1905	LGZ	Farsund R.	NOR	USB,E/Norw. Stormwarn.	pt53
1792	1703	7TA	Algiers R.	ALG	USB,F,ID,naut. warnings,wx	pt53
1876	2339	IQN	Lampedusa R.	I	USB wkg pp to Venice	ti55
1906	1806	FFM	Marseille R.	F	USB,F,wx,mv // 2649	pt53
2182	1703	7TA	Algiers R.	ALG	USB,F/E,ID,QSY 1792	pt53
2182	1834	OSU	Oostende R.	BEL	USB,E/N1,QSY 2761	pt53
2182	1903	LZW	Varna R.	BUL	USB,E,QSY 3740	pt53
2182	1704	OXZ	Lyngby R.	DNK	USB,E,QSY 1734,1704,1758	pt53
2182	1733		Machichaco R.	E	USB,E/S QSY 1707	pt53

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2182	2034	EAL	Tarifa R.	E	USB,E/Sp QSY 1704	pt53
2182	1733	EAO	Palma R.	E	USB,E/S QSY 1755	pt53
2182	1604		Cabo de Gata R.	E	USB,E/S QSY	pt53
2182	1733		Chipiona R.	E	USB,E,IDS, QSY	pt53
2182	1534		Valencia R.	E	USB,E/S,QSY	pt53
2182	1704	EAF	Finisterre R.	E	USB,E/S,QSY	pt53
2182	1703	FFB	Bologne-sur-Mer R.	F	USB,F,QSY 1774	pt53
2182	1803	FFM	Marseille R.	F	USB,F,mv, QSY	pt53
2182	1707		Cross Corsen	F	USB,F,QSY	pt53
2182	1754		Cross Med	F	USB,F,QSY	pt53
2182	1903	OXJ	Torshavn R.	FAR	USB,E,Vern QSY 1758	pt53
2182	1904	GCC	Cullercoats R.	G	USB,E,QSY 2719	pt53
2182	2035		Humber CG	G	USB,E,tfc, ID fv	pt53
2182	1733	GKZ	Humber R.	G	USB,E,QSY 1869	pt53
2182	1904	GND	Stonehaven R.	G	USB,E,QSY 2691	pt53
2182	2103	GLD	Land's End R.	G	USB,E,QSY 2670	pt53
2182	1834	GNI	Niton R.	G	USB,E,QSY 1641	pt53
2182	1903	GKR	Wick R.	G	USB,E,ID,QSY	pt53
2182	1947		Stornoway CG	G	USB,E,Mayday-Relay	pt53
2182	1834		Den Helder	HOL	USB,E,clg. vessel	pt53
2182	1534	PCH	Netherlands CG	HOL	USB,E,ID,QSY 3673	pt53
2182	1635	ICB	Genova R.	I	USB,E/I,QSY 2722, 1925	pt53
2182	2105	IPP	Palermo R.	I	USB,E/I,Pan Pan, QSY	pt53
2182	1840	IAR	Rom R.	I	USB,E/I,QSY 1888	pt53
2182	1837	IQX	Trieste R.	I	USB,E/I,QSY 2624,2666,1825	pt53
2182	2004	IPD	Civittavechia R.	I	USB,I,wkg. vessel IBAS	pt53
2182	0433	EJM	Malin Head R.	IRL	USB,E,QSY 1677	pt53
2182	1833	EJK	Valentia R.	IRL	USB,E,QSY 1752	pt53
2182	1604	LFO	Orlandet R.	NOR	USB,E/Norw., QSY 2635	pt53
2182	1734	LGN	Bergen R.	NOR	USB,E/norw.,no tfc	pt53
2182	1838	LGZ	Farsund R.	NOR	USB,E/Norw. QSY 1785	pt53
2182	2334	LGQ	Rogaland R.	NOR	USB,E/norw. QSY 1692	pt53
2182	2016	LGP	Bodoe R.	NOR	USB,E/norw. QSY 1770	pt53
2182	1735	SPH	Gdynia R.	POL	USB,E/POL,ID,QSY 1692	pt53
2182	1604	SPN	Witowo R.	POL	USB,E/Poln. tfc-list	pt53
2182	2006	CUL	Lisboa R.	POR	USB,E/P,ID,QSY 2693	pt53
2182	1533	SDJ	Stockholm R.	S	USB,E,QSY	pt53
2182	2208	SAE	Tingstaede R.	S	USB,E,QSY	pt53
2226	2010		Aberdeen CG	G	E,tfc w/vessel in distress	pt53
2635	1706	LFO	Orlandet R.	NOR	USB,E/norw.,fv,gale-warn.	pt53
2649	1809	FFM	Marseille R.	F	USB,F,mv,wx,ID	pt53
2740	0729	FFO	Saint Nazaire R.	F	USB wkg phonepatch	ti26
2782	2103	GLD	Land's End R.	G	USB,E,wkg. vessel	pt53
3108	2111		German Civil Ships	IWA	USB talk: Biscaya routes	ti26
3282	0723		German Civil Ships	IWA	USB wkg smalltalk:Cooking	ti26
4154,3	0624	DRAF	FGS Moelders	IWA	USB wkg DHJ59, msgs, QSL	ti26
4154,3	2317	DRAH	FGS Brandenburg	IWA	USB wkg DHJ59, msgs, QSL	ti26
4194	1653	UBII	UNID ship	?	wkg coast	dmRU
4206	1658	V	Navy Khiva	UZB	cw-channelmarker	dmRU
4211	2014	GKE2	Portishead R.	G	cw-gke 2 + SITOR	pt53
4212,5	2018	FFT21	Saint Lys R.	F	cw-fft + SITOR	pt53
4213	2019	LGW3	Rogaland R.	NOR	cw-lgbltx + SITOR	pt53
4213,5	2023	IAR	Rome R.	I	cw-iar only	pt53
4215,5	2025	HEC24	Bern R.	SUI	cw-hec + SITOR	pt53
4216	2027	TAH	Istanbul R.	TUR	cw-tah + SITOR	pt53
4216	2029	SVT	Athen R.	GRC	cw-de svt	pt53
4216,5	2029	IAR	Rom R.	I	cw-iar + SITOR	pt53
4217	2030	PCH	Scheveningen R.	HOL	cw-pch + SITOR	pt53
4218	2031	OST28	Ostende R.	BEL	cw-ost + SITOR	pt53
4218	2031	IAR	Rom R.	I	cw-iar + SITOR	pt53
4219	2033	A9M	Bahrein R.	BHR	cw-a9m + SITOR	pt53
4222,3	2034	XSN	Ningbo R.	CHN	cw-cq de xsn qru	pt53
4231	2038	A7D	Doha R.	QAT	cw-de a7d	pt53
4235	0052	IAR	Roma R.	I	cw-vvv	pt53+ti26
4241,5	2045	LGW	Rogaland R.	NOR	cw-cq qsx	pt53
4250	2054	PCH20	Scheveningen R.	HOL	cw-de pch 20 4 k	pt53
4253	2055	TAH	Istanbul R.	TUR	cw-de tah	pt53
4259	2115	SAB	Goeteborg R.	S	cw-sab + SITOR	wk08

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4260	0054	TBA2	Ny Ankara	TUR	cw-vvv, bcst T13A	ti26
4271	2120	OFJ4	Helsinki R.	FIN	cw-ofj qsx	wk08
4314	2103	LZW26	Varna R.	BUL	cw-de lzw tfc list as	wk08
4325,8	1101	R	Navy Izhevsk	RUS	cw-channelmarker	dmRU
4331	1714	4XZ	Ny Haifa	ISR	cw-vvv	ti26
4350	0058	TBB5	Ny Ankara	TUR	cw-vvv QAP	ti26
4363	2003		UNID	?	USB, fv, E/F nav. warnings	pt53
4474	1717	IGDG	UNID, Ny Ship	IW	USB, wkg ICT, r-check	wk08
4474	1836	IGDF	UNID, Ny Ship	IW	USB, wkg ICT	wk08
4474	2046	IHMT	UNID, Ny Ship	IW	USB, wkg ICT	wk08
6316	2116	NMN	USCG Camslant	USA	cw, nmn + SITOR	pt53
6318,5	2121	OXZ	Lyngby R.	DNK	cw, oxz + SITOR	pt53
6319	2120	UAT	Moscow R.	RUS	cw, de uat + SITOR	pt53
6320,5	2122	FFT31	Saint Lys R.	F	cw, fft + SITOR	pt53
6321,5	2124	SVT	Athens R.	GRC	cw, de svt + SITOR	pt53
6322	2125	OST	Ostende R.	BEL	cw, ost + SITOR	pt53
6325	2130	YLQ	Riga R.	LVA	cw, ylq scanauto + SITOR	pt53
6326,5	2133	SAB	Goeteborg R.	S	cw-sab + SITOR	pt53
6327,5	2136	UAT	Moskau R.	RUS	cw-de uat + SITOR	pt53
6329,5	2137	VCT	Rainbow R.	CAN	cw-vct + SITOR	pt53
6330	2138	LZW	Varna R.	BUL	cw, de lzw + SITOR	pt53
6330,5	2145	8PO	Barbados R.	BRB	cw-8PO + SITOR	pt53
6330,5	2148	WLO	Mobile R.	USA	cw-wlo + SITOR	pt53
6344	2203	SVB3	Athen R.	GRC	cw, de svb3/4/5 qsx	pt53
6357	2206	SA	Karlskrona R.	S	cw-cq	pt53
6371,5	2210	RKLM	Arkhangelsk R.	RUS	cw-4lye rkln	pt53
6382	0127	TBA6	Ny Ankara	TUR	cw-vvv QAP	ti26
6383	1950	URL	Sevastopol R.	UKR	cw-cq	wk08
6386,5	2146	ZSJ	Navy Capetown	AFS	cw-cq, qsx amver	dmRU
6440	0706	OMC	Bratislava R.	SVK	cw-de, tfc list	ai47
6444,5	2003	SVD3	Athinai R.	GRC	cw-de svd3	wk08
6470	0130	SXA24	Ny Spata Attikis	GRC	cw-vvv	ti26
6502	0132	TBB6	Ny Ankara	TUR	cw-vvv QAP	ti26
6507	2305	LGN30	Rogaland R.	NOR	USB, OM id, E wx	wk08
6727	1014	JWT	Ny Stavanger	NOR	USB, OM id-JWT, wkg H2Q, msg	wk08
8130	2225	TBO	Ny Izmir	TUR	cw-vvv, bcst T23C	ti26
8335,3	1838	DRDL	FGS U18	IWA	USB clg DHJ59, r/c, ZB01P	ti26
8335,3	2327	DRAJ	FGS Bayern	IWA	USB wkg DHJ59, QSY MRL59	06ti26
8343,5	1105	UBYC	UNID ship	?	wkg coast	dmRU
8437	1645	4XZ	Ny Haifa	ISR	cw-vvv	pcG
8452	0618	VIT	Townsville R.	AUS	cw-vvv, cq	ai47
8455	2100	UVA	Gelendzhik R.	RUS	cw-cq	wk08
8457	1235	OFJ	Helsinki R.	FIN	cw-ofj qsx	dmRU+pt53
8461	1312	PKR	Semarang R.	INS	cw-cq qsx	pt53
8468,6	0113		UNID	?	cw-de? + SITOR, very weak	pt53
8473,5	2210	A7D	Doha R.	QAT	cw-de a7d	pt53+pcG
8474	0740	JYO	Aqaba R.	JOR	cw-cq	pt53+pcG
8480	1555	HZY	ARAMCO Ras Tanura R.	ARS	cw-cq, tfc list	wk08
8482	0411	SPH	Gdynia R.	POL	cw-de	dmRU
8505	1432	RJFY/UCW4	St. Petersburg R.	RUS	cw-cq, qsw 4223/6380/8505/1	dmRU
8506	1326	XSX	Keelung R.	TWN	cw-cq	wk08+pt53
8522	0418	CBV	Playa Ancha Zonal R.	CHL	cw-vvv	ti26+dmRU
8532	1715	LZW49	Varna R.	BUL	cw-de lzw49	pcG
8564	1729	LZL	Bourgas R.	BUL	cw-de lzl qsx ch 3 9	pcG
8566	1732	ZSJ	Ny Capetown	AFS	cw-cq	pcG
8571	2035	JNA	Tokyo R.	J	cw-cq	pcG
8573	2030	CLA	Havana R.	CUB	cw-cq	ti26+pcG
8584	2339	VRX	Hongkong R.	CHN	cw-cq	ti26
8589	2238	HPP	Panama Intelmar R.	PNR	cw-vvvcq	ti26
8590	1914	XVS8	Ho Chi Minh R.	VTN	cw-cq + qtc list	pcG
8600	0044	XSV	Tjianjin R.	CHN	cw-cq	pt53
8623	1635	5BA	Nicosia R.	CYP	cw-cq	dmRU+ti26+pcG
8624	1637	XSQ	Guangzhou R.	CHN	cw-cq	pcG
8635	1810	UTQ	Kiyev R.	UKR	cw-cq	pcG
8646	2242	LPD86	General Pacheco R.	ARG	cw-vvv	ti26
8650	0048	SPB43	Szczecin R.	POL	cw-spb + SITOR	pt53
8658	0050	ASK	Karachi R.	PAK	cw-vvv de ask qsx	t i26+pt53
8662	0051	TAH	Istanbul R.	TUR	cw-cq de tah	pt53

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8680	0055	WSC	Tuckerton R.	USA	cw-cq	pt53
8683	0530	UFJ	Rostov R.	RUS	cw-cq, qsw 3625/8683/13060	dmRU
8686	1219	CNP	Casablanca R.	MRC	cw-cq,qsx	pt53
8687	1722	SVA4	Athen R.	GRC	cw-de sva 4	pt53
8688,5	0057	ZSC6	Capetown R.	AFS	cw-cq	pt53
8706	1233	JOS	Nagasaki R.	J	cw-cq	pt53
8803	1258	OHG2	Helsinki R.	FIN	USB,OM id,tfc list	wk08
10192,5	1827	DRAF	FGS Moelders	IWA	USB wkg DHJ59, msgs, QSL	ti26
10192,5	1837	DRDL	FGS U18	IWA	USB clg DHJ59, QSY 59 08	ti26
10722	1514	DRAR	FGS Niedersachsen	IWA	USB wkg DHJ59, msgs, QRT	ti26
10722	1746	DHJ59	Ny wilhelmshaven	D	USB wkg DRAN, msgs, QSL	ti26
10722	1848	DRAN	FGS Augsburg	IWA	USB wkg DHJ59, msgs QSL	ti26
12615,5	1900	8PO	Barbados R.	BRB	SITOR/A tlx/cw-Global stn	pcG
12620,5	1738	WSC	Tuckerton R.	USA	SITOR/A tlx/cw mkr	pcG
12675,5	1207	A4M	Muscat R.	OMA	cw-de a4m	wk08
12682,5	1217	PKE	Ambon R.	INS	cw-cq qsx	pt53
12687	1050	OFJ	Helsinki R.	FIN	cw-ofj, qsx cycl.4/8/12/16	dmRU
12689	0910	LZL5	Bourgas R.	BUL	cw-de lzl qsx ch 39	wk08
12704,5	1214	WLO	Mobile R.,AL	USA	cw-de wlo mrk	pt53
12709	1203	A9M	Bahrein R.	BHR	cw-cq	dmRU+pt53
12736	1935	LSD836	Buenos Aires R.	ARG	SITOR/A tlx/cw-Global stn	pcG
12780,5	1545	9AR	Rijeka R.	HRV	cw-vvv qsx	pt53
12799,5	1548	PCH51	Scheveningen R.	HOL	cw-de pch 51 12	pt53
12800	1259	HSA	Bangkok R. (nice,ed)	THA	cw-cq de hsa,very weak	pt53
12801	1255	TAH	Istanbul R.	TUR	cw-cq de tah pse standby	pt53
12833	1237	SVA5	Athen R.	GRC	cw-de sva 5	pt53
12835,4	1239	GKB	Portishead R.	G	cw-de gkb qsx	pt53
12855	0921	UBF2	St.Petersburg R.	RUS	cw-telegrams to ships	dmRU
12864	1243	XSW	Kaohsiung R.	TWN	cw-cq de xsw	pt53
12935	0525	HLG	Seoul R.	KOR	cw-cq	dmRU
12966,8	1349	A7D	Doha R.	QAT	cw-de a7d	pt53
12968,9	1358	SUH	Alexandria R.	EGY	cw-cq qru	pt53
12970,5	1222	PKX	Jakarta R.	INS	cw-cq qru?	wk08+pt53
13008	0906	JOR	Nagasaki R.	J	cw-cq, qsx	dmRU
13022	1536	SPE	Szczecin R.	POL	cw-de spe	pt53
13024,5	1538	ASK	Karachi R.	PAK	cw-vvv qru? qsx	pt53
13028,9	1539	SVB5	Athen R.	GRC	cw-de svb4/5/6/7 qsx	pt53
13055	1542	UTQ7	Kiew R.	UKR	cw-cq de utq 7	pt53
13062	1543	CLA	Havana R.	CUB	cw-cq de cla qsx	pt53
16806,5	1008	NMC	USCG Camspac	USA	cw-nmc + SITOR	wk08
16821	1025	VRX83	Hongkong R.	HKG	cw-vrx + SITOR	wk08
16836,5	1253	WLO	Mobile R.	USA	cw-wlo + SITOR	wk08
16841,5	1255	8PO	Barbados R.	BRB	cw-8PO + SITOR	--NEW-- wk08
16851,5	1332	SAB891	Goeteborg R.	S	cw-sab + SITOR	wk08
16868	1328	9VG48	Singapore R.	SNG	SITOR/A tlx/cw mkr	pcG
16879	1040	LZW67	Varna R.	BUL	cw-de lzw (not sitor)	wk08
16886	1350	TAH	Istanbul R.	TUR	cw-tah + SITOR	pcG+wk08
16898,5	1115	UAT	Moskva R.	RUS	cw-de uat + SITOR	wk08
17175,2	1035	A9M	Bahrain R.	BHR	cw-cq	dmRU
17184,8	1600	KFS	Palo Alto R.	USA	cw cq mrk	pt53
17188	1033	SVD6	Athinai R.	GRC	cw-de	dmRU
22238,3	1504	DHJ59	Ny wilhelmshaven	D	USB wkg DRAN, msgs, QSL	ti26

A E R O

3407	2123		Tashkent Volmet	UZB	USB wkg wx, vy weak sig.	ti26
3413	2124		Shannon Volmet	IRL	USB wkg wx for Zurich	ti26
4645	2108		Tallinn Volmet	EST	USB,E id, ATIS information	wk08
4724	2333	AFG4	USAF Offut	USA	USB clg VTTR0S, standby	ti26
4731	0800	MKL	RAF Pitreavie	G	cw clg 8GK,msg,NAMAT-grps	ti26
5450	0811	MVU	RAF Upavon Volmet	G	USB wkg wx for St.Mawgan	ti26
5517	2144		Djibouti Aero	DJI	USB,E,wkg Mogadishu	pt53
5517	2158		Cairo Aero	EGY	USB,E,wkg Martin Air 81	pt53
5517	2112		Asmara Aero	ERI	USB,E,wkg Lufthansa	pt53
5517	2118		Addis Abeba Aero	ETH	USB,E,wkg Khartoum	pt53
5517	2133		Nairobi Aero	KEN	USB,E,clg Addis Abeba	pt53
5517	2028		Tripolis Aero	LYB	USB,E,wkg Cairo	pt53
5517	2200		Khartoum Aero	SDN	USB,E,wkg Lufthansa 581	pt53
5517	2144		Mogadishu Aero	SOM	USB,E,wkg Djibouti	pt53

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5517	0105	Sana`a Aero	YEM	USB,E,clg Addis	pt53
5529	0022	Iberia Madrid	E	USB,S,wkg CRFL	pt53
5532	1545	tent. CSA	CZE	USB,tschech.	pt53
5598	1843	Shanwick Aero	IRL	USB,E,wkg Cubana 439	pt53
5658	2223	Bombay Aero	IND	USB,E,wkg Indonesian	pt53
5670	2138	Chennai Aero	IND	USB,E,wkg Singapore 7375	pt53
5680	1647	RESCUE-125 RAF Flight	AIR	USB clg Plymouth posrep	ti26
5680	1752	SAR Kinloss	G	USB,E,wkg Rescue 177	pt53
6556	1759	Yangon Aero	BRM	USB,E,wkg UNID	pt53
6586	1813	Niamey Aero	NGR	USB,F,clg Cotonou	pt53
6586	2230	New York Aero	USA	USB,E,wkg Lufthansa 65	pt53
6604	0820	Gander Volmet	CAN	USB wkg wx for Orlando	ti26
6604	2224	Gander Aeradio	CAN	USB,E,mv, Volmet, ID	pt53
6622	1613	Shanwick Aero	G	USB,E,wkg LH 183	pt53
6628	1952	CSY Santa Maria Aero	AZR	USB,E,wkg TTC 1	pt53
6676	1333	Sydney Volmet	AUS	USB,E,Volmet	pt53
6676	1711	Bangkok Volmet	THA	USB,E,ID, Volmet	pt53
6679	1550	Auckland Volmet	NZL	USB,E,fv, Volmet	pt53
6727	0954	JWT Ny Stavanger	NOR	USB wkg STINGRAY76,to RTTY	ti26
6727	1019	DHJ59 Ny wilhelmshaven	D	USB clg JWT, rdock for QSL	ti26
6730	1010	B5K Ny Exercise Flight	AIR	USB wkg DHJ59,take off rept	ti26
6730	1012	DHJ59 Ny wilhelmshaven	D	USB clg JWT r/c,no joy	ti26
6730	1312	JGZ55 unid, RNOAF? RNON?	?	USB wkg HUSKY-05,unid a/c	ti55
6730	1512	PRIMEROSE AF Karup	DNK	USB wkg unid flight,posrept	ti26
6736	1625	BUCKHAM? unid aircraft	AIR	USB clg 5MY, msg, encoded	ti26
6736	1630	5MY unid, RAF ground sta.	G?	USB clg BUCKHAM, msgs NUCO	ti26
8855	1959	Manaus Aero	B	USB,port,wkg TangoCharly?	pt53
8879	1742	Gander Aero	CAN	USB,E,wkg Speedbird	pt53
8879	1551	Bombay Aero	IND	USB,E,wx, wkgUnited	pt53
8903	2214	Accra Aero	GHA	USB,E,wkg RCN	pt53
8921	1507	Speedbird	G	USB,E,wkg Ascot 3443	pt53
8957	2149	Shannon Aeradio	IRL	USB,E,wx, ID	pt53
8965	1609	DHM91 AF Muenster	D	USB wkg unid flight, wx	ti26
8986	1000	MKL RAF Pitreavie	G	cw vvv de mkl wait	ti26
9031	1617	ARCHITECT RAF Upavon	G	USB wkg wx for unid	ti26
11205	0900	ARCHITECT RAF Upavon	G	USB wkg wx forecast	ti26
11247	0856	GN90 RAF Flight	AIR	USB wkg ARCHITECT for wx	ti26
11247	0857	ASCOT591 RAF Flight	AIR	USB clg CYPRUS, no joy	ti26
11247	0858	ASCOT591 RAF Flight	AIR	USB clg ARCHITECT posrep	ti26
11253	0859	MVU RAF Upavon Volmet	G	USB wkg wx for Prestwick	ti26
11300	1448	Cairo Aero	EGY	USB,E,wkg Khartoum	pt53
11300	1448	Khartoum Aero	SDN	USB,E,wkg Cairo	pt53

## D I G I T A L

518	0845	ESA Tallin R.	EST	SITOR NAVTEX-Testmsgs	ti26
2203	0033	MGJ Ny Faslane	G	RTTY 75 CARB-msgs	pt53+ti26
2203	1934	GYA Ny London	G	ITA2/75/400 carb msgs	pcG
2234,6	1935	MOI?	D	ARQE/96/85	pcG
2235,6	1632	THVHF MOI Bonn	D	ARQE/96/85`zcmc 003 THVHF`	pcG
2386,4	1950	MOI?	D	ARQE/96/85	pcG
2386,8	1630	HFVTH MOI Erfurt	D	ARQE/96/85`Erfurt hf` msg	pcG
2474	0007	PBC Ny Noordwijk	HOL	RTTY 75 CARB-msgs	pt53+ti55
2582	2345	UNID	?	RTTY 200/100, msgs	pt53
2608	2056	FUO Ny Toulon	F	RTTY 75 TESTING RY-SG	pt53+ti26
2660	2058	unid, Diplo? Help!	?	RTTY 50 RY,KRIPTOGRAMMA NAT	ti26
2789	2104	FUE Ny Brest	F	RTTY 75 RY-SG, TESTING	ti26
2806	0033	IGJ Ny Augusta	I	RTTY 100 CARB-msgs	ti55
2813,5	0038	MTI Ny Plymouth	G	RTTY 75 CARB-msgs	ti55
2815	0040	IDR Ny Roma	I	RTTY 100 CARB-msgs	ti55
2840,7	1700	DLVC UNID	IW	SITOR/A msg to Cuxhaven	pcG
2845	0042	PBB Ny Den Helder	HOL	RTTY 75 CARB-msgs	ti55
4214	2022	IDR2 Ny Rome	I	RTTY,850/100, mrk	pt53
4228	1708	UIW Kaliningrad R.	KAL	RTTY 50 id, RY-Tape	ti26
4280	0752	PBC Ny Noordwijk	HOL	RTTY 75 CARB-msgs	ti26
4295	0753	HWN Ny Paris	F	RTTY 75 TESTING RY-SG	ti26
4971,4	1330	HFVBY MOI Munich	D	ARQE/96/85`zcmc 002 HFVBY`	pcG
4971,8	1330	HFVTH MOI Erfurt	D	ARQE/96/85QVL to Bonn(day)	pcG
4972,4	DAILY	UNID MOI?	D	ARQE/96/85cont idle-nil tfc	pcG



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6333	0124	IGJ	Ny Augusta	I	RTTY 100 CARB-msgs	ti26
6483	0818	PBB	Ny Den Helder	HOL	RTTY 75 CARB-msgs	ti26
6726	2245		UNID	?	RTTY 850/75, coded msgs	pt53
6976	DAILY	RFF---	FF Ajaccio,Corse	F	ARQE/192/170 EHQ (ehr)idle	pcG
7614	DAILY	RFF--	FF Marseille	F	ARQE/192/170 EHR (ehq)idle	pcG
7646	1041	DDH7	Meteo Quickborn	D	RTTY 50 WX-Report,forecast	ti55
7681	1046	GXQ	Army London	G	VFT 50 RYI-TEST-Tape	ti55
8151	0833	IGJ	Ny Augusta	I	RTTY 100 CARB-msgs	ti26
8429,5	1148	IDR	Ny Roma	I	RTTY 100 CARB-msgs	ti55
8453	1153	HWN	Ny Paris	F	RTTY 75 FAAA DE HWN TEST	ti55
8453	1655	HWN	Ny Paris	F	ITA2/75 ry/sg faaa de hwn	pcG
8465	1317		UNID	?	RTTY 850/100 coded msgs	pt53
8478,5	2204	FUF	Ny Fort de France	MRT	ITA2/75/850 ry/sg test	pcG
8500	2200	RBSL	Ny Bombay	IND	ITA2/50/850 ry/sg test	pcG
8568	2145	FUV	FNy Djibouti	DJI	ITA2/75/850 ry/sg test	pcG
8642,2	1212	MGJ	Ny Faslane	G	RTTY 75 CARB-msgs	ti55
9130	1700	MGJ	Ny Rosyth? (Faslane,ed)	G	ITA2/75/850 carb msgs	pt53+pcG
9259	1200	RFFEDCS	Marseille	F	ARQE/192/170 EHR cct test	(Monday only) msgs pcG
9282	1702		UNID	?	75/250 cont ?	pcG
9354	1947	RF	UNID FF?	?	ARQE/72/400 nil tfc	pcG
10177,7	1945	RFFA	FF Paris	F	ARQE3/192/400 LFB to Mrt	pcG
11085	1705	RFGW	MFA Paris	F	FEC/192/400 diplo tfc	pcG
11110,5	1930	RFLI	FF Fort de France	MRT	ARQE3/192/400 BFL to Paris	pcG
12186	1515	5AQ62	JANA Tripolis	LBV	RTTY 400/50 Fnx, ID	pt53
12932,5	1530		UNID	?	RTTY 850/100 coded msgs	pt53
12965	1337		tent. USO 5 Izmail R.	UKR	rtty 170/50,cw E,msgs,noID	pt53
14363	0910		Czech Embassy Kiev	UKR	RTTY 75 5lg to OLZ88	ti26
14585,7	1001	RFTPA	FF N`Djamena	TCD	ARQE3/200/400FDZ msgs 5lgps	pcG
14926,7	1020	RFTJ	FF Dakar	SEN	ARQE3/192/400TJD to Librev.	pcG
16227,7	1515	RFFXI	FF Bangui	CAF	ARQE/96/400 XZI to Paris	pcG

BAND SURVEY NOVEMBER - DECEMBER 1997 by pcG  
DATA MODES 5000 - 5999 KHZ

FREQ	HR	DT MO	MODE	REMARKS
5008.50	1745/19/11		SITOR/A/100/400	Spanish Police RETXX RETYVC
5014.00	1710/3/12		100/170	Cont UNID
5020.40	1100/20/11		FEC/A/96/85	German simplex ntwk various c/s `debw 2011/debe 3511/debc 2022`
5023.20	DAILY/11		ARQE/96/85	German MOI type - cont. idle
5027.00	1715/3/12		cw	Cont 5 fig groups
5049.2	1720/3/12		SITOR/B/100/170	Portugese ntwk. Veh msgs
5054.50	1725/23/11		ITA2/50/400	Amman PETRA English news
5064.00	1615/18/11		ARQE/72/400	French Mil. idle
5064.00	1730/4/12		cw	9MB Malaysian Nav `9mb12/13/19`
5079.00	1815/19/11		75/850	Cont UNID
5102.00	2050/8/12		VFT	GXQ UK DCN various channels 75/340: ARQE342/96/340 2ch
5114.00	1724/3/12		81/200	Cont UNID
5123.50	1727/3/12		ARQE/72/400	French forces - cont idle
5150.00	2020/21/11		75/850	Cont UNID
5150.51	1734/4/12		PICC/12	Cont crypto s/ch
5160.00	2000/8/12		ARQE3/96/400	5UA Niamey ASECNA NUA cct to to Cotonou
5190.00	1915/19/11		ARQE/72/400	Cont idle
5191.90	1200/26/11		FEC/A/96/85	German simplex ntwk various c/s `deby 2031/desb 2012/ dele 4011`
5192.00	1910/3/12		81/250	Cont UNID
5208.51	0945/4/12		PICC/12	Cont crypto s/ch
5215.20	1730/23/11		850/150	Cont UNID
5215.60	1915/3/12		100/850	Cont UNID
5240.00	1736/4/12		cw	FDG Bordeaux FAF v mkr
5262.90	0900/24/11		ARQE/96/85	German MOI Bonn HBVHF usual tfc but operation not continuous
5264.60	1000/25/11		ARQE/96/85	German MOI Erfurt, cid - FZVBI tfc as HBVHF etc.

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5268.00	1957/8/12		CW	HEP5 Zurich Interpol ? v mkr
5275.20	1652/5/12	ARQE/46.1/170		Cont idle (as 5374.20)
5285.00	1445/2/12	ARQE/72/400		French Mil. idle
5286.00	1647/5/12	75/170		Cont UNID
5287.50	1926/3/12	SITOR/100/400		Spanish Police - msg
5320.50	1745/4/12	SITOR/100/400		Spanish Police - RETYMM ...
5333.00	1430/18/11	ARQE/72/400		French Mil. idle - EX. freq.
5342.00	1748/4/12		CW	FDY Orleans FAF v mkr
5353.50	1635/2/12	SITOR/100/400		Spanish Police ntwk RETZSE...
5367.50	0915/5/12		CW	FDY Orleans FAF v mkr
5371.00	1700/2/12	ITA2/50/400		YRR4 Bucharest Meteo msg
5374.20	1755/4/12	ARQE/46.1/170		Cont idle - Egyptian MFA? - no hourly i/d (3667.20)
5397.70	1630/2/12	ARQE/342/200/4002/ch		Paris Mil RFFR FDXA/FDXB to to Sarajevo
5400.51	2120/5/12	PICC/12		s/ch cont crypto
5429.00	1530/18/11	ARQE/72/400		French Mil. `UAF` idle
5430.00	NIGHTS/11	ARQE/192/400		French Mil. CID ? but wx/aero type tfc + `rffjcv de rffsyra` mostly idle though.....
5455.51	0924/5/12	PICC/12		UNID British Mil s/ch - crypto
5457.00	1446/18/11	ARQE/72/400		French Mil Ex. BRIGATRANS `UAF`
5500.50	0920/3/12	PICC/?		S/ch idle UNID
5723.50	0925/3/12		CW	FDG Bordeaux / v mkr
5740.00	1420/19/11	ARQE/72/400		French Mil Ex. BRIGATRANS `UFA`
5754.00	1130/2/12	ARQE/72/400		French Mil cid:-UFA c.d.v. msg
5773.20	1645/5/12	SITOR/A/170		HBD20 Berne MFA 5 ltgp msg
5785.25	1640/5/12	ITA2/50/400		Spanish Police - RETADIY...
5796.00	1500/2/12	ITA2/50/170		Arabic news ??
5815.00	2135/2/12	100/850		Cont. UNID
5869.50	0929/5/12	SITOR/100/400		RETXX Spanish Police, Madrid
5887.50	2130/2/12	ITA2/50/850		IMB2 Rome Meteo msg

Some of the German MOI stations have reappeared and I will list them separately here, more expert (German speaking) help is needed. Heard so far are:- All are ARQE/96/85

2234.60	BYVHF	Bonn to Muenchen	Night freq.
2235.60	THVHF	Bonn to Erfurt	Night freq.
2386.40	HFVBY	Muenchen to Bonn	Night freq.
2386.80	HFVTH	Erfurt to Bonn	Night freq.
4971.40	HFVBY	Muenchen to Bonn	Day freq.
4971.80	HFVTH	Erfurt to Bonn	Day freq.
4972.40	??	??	always idle - nil tfc
5263.60	BYVHF	Bonn to Muenchen	Day freq.
5264.60	THVHF	Bonn to Erfurt	Day freq.

Circuits are not very busy, QVL messages are sent every 4 hours. Further German MOI (?) stations worth checking are the following: These all use FEC/A 96/85 - Simplex so no continuous carriers!

4018.00	DEL55	??	other DEL-- c/s
4535.40	DEB35	wiesbaden	other DEB-- c/s
5020.40	DEBW 2011	DEBE 3511 DEBC 2022	DEBS 9000 all hrd
5198.80	DEB30		other DEB c/s
5262.8	DEB--		other DEB c/s

Activity on these frequencies is variable - some days nothing - no pattern yet found. More help from German speakers WANTED! pcg

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AFS-Safair Ops Jo`burg	30	lt,info/IRC	17977			hb31
AUS-Townsville R.	14	ppc,lt(via Melbourne)	8452	VIT	1000 w	ai47
CZR-MOI Praha	287	ppc/vc, cd	8143	QLX		ti47
D -NDB Lahr	52	ppc,i/sase	337	`LHR`	50 w	zeTC
D -NDB Egelsbach	4	ppc/ms	386	`EH`		hb31

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DNK-NDB Maribo-Lolland	10	ppc,i,DNK-NDB list	366	`MB`		zeTC
E -NDB Cabo Penas	33	f/d lt (hrd in POR)	297,5	`PS`		ai47
E -NDB Cabo Finisterre	33	f/d lt (hrd in POR)	288,5	`FI`		ai47
E -NDB Cabo de Palos	33	f/d lt (hrd in POR)	313	`PA`		ai47
E -NDB Rota	33	f/d lt (hrd in POR)	303	`D`		ai47
EST-Tallinn Volmet	33	lt/vc,IRC	4645		1000 w	pt53
F -AF Bordeaux-Merignac	42	f/d lt,sti	5010	FDG5	400 w	ai47
F -AF Bordeaux-Merignac	27	lt,st/vc,IRC (via FDY)	2657,5	FDG5	400 w	pt53
F -CROSS Corsen	13	ppc/vc,IRC	1650		1000 w	pt53
G -Lochinver LB	36	ppc/ms	2182			hb31
G -Portrush LB	15	ppc/ms	2182			hb31
G -Skegness LB	10	ppc/ms	2182			hb31
G -MAFF Base London	23	lt/ms	6647			hb31
G -Clyde CG	7	lt,i/vc	2182		750 w	pt53
G -Belfast CG	8	lt/vc,IRC	2182		250 w	pt53
IW -MV Maersk Chignecto	19	ppc/ms	2182	VCJC		hb31
POL-Gdynia R.	23	cd,i/vc,IRC	2182			pt53
POL-NDB Inowroclaw	156	ppc/sase	392	`UK`	100 w	zeTC
POL-NDB Miroslawiec	156	ppp/sase	342	`AL`	300 w	zeTC
POL-NDB Ponnan-Lawica	156	ppc/sase	511	`EG`	1000 w	zeTC
POL-NDB Sochaczew	156	ppc/sase	395	`SJ`	1000 w	zeTC
SVK-Bratislava R.	29	ppc,lt,i	6440	OMC	500 w	ai47

ppc=prepared card, lt=letter, i=information, fo=photo, sti=sticker, vc=viewcard,

cd=card, irc=international reply coupon, ms=mint stamps, rp=return postage, sked=schedule, sase=self addressed and stamped envelope, sae=self addressed envelope, f=folder, f/d full detailed, USD=US Dollar, c/a=central address

## Membership and Money corner:

Thanks for your mails, Tracey! Nice that you could help. Wishing you a lot of fun with our EUNL!

## Inquiries Department:

This time I have an inquiry from OM Dmitri from Russia (dmRU): He is looking for

a second hand receiver with simply a digital set of suitable sensitivity and selectivity, covering the range 150 kHz ... 30 MHz without gaps (like YAESU or so). The rx should be technically o-kay. Maximum price should be 600 DM.

Gentlemen, it would be very nice if someone of you has something to offer for this OM and that we can help. Anyone, who wants to sell a rx, is kindly encouraged to send a note to my address (e-mail or snailmail). I will pass the incoming info's to OM Dmitri and he will establish the contact to you. Many thanks for your help in advance!

OM Peter (pt53) got his report to Bombay Aero (Civil Aviation Department, Aeronautical Communications Station, Santacruz International Airport, Mumbai or Bombay 700 057) back. Anyone with a new idea?

He also wants to know, why the Italian maritime stations do not answer any more.

## Addresses/Infos/Veri-signers:

E NDB`s (maritime): Puertos del Estado, Departamento Tecnico de Senalizacion Maritima, Avenida del partenon 10, Campo de las Naciones, E-28042 Madrid (ai47)  
Bratislava R./OMC: Bratislava Radio-OMC, Chief Operator of OMC, Narodny Podnik, 81524 Bratislava (v/s=Martin Vicik)(ai47)

Belfast CG: HM Coastguard, Maritime Rescue Sub Centre, Bregenz House, Quay Street, GB - Bangor, Co. Down BT20 5ED (pt53)

Gdynia R./SPC: Telekomunikacja Polska S.A., Telekomunikacyjne Centrum Odbiorcze

w  
Rekowie, 84-123 Polchowo (pt53)

MoI Praha/OLX: Ministerstvo Vnitra CR, PB 21 / SK, CZR-17034 PRAHA 7 (ti47)

NDB info: Solved NDB unids by zeTC/mo76/nr76/tgG-(via e-mail) TNX!

ARB 355	civ Ardabil	IRN N38.1954	E48.2454
AT 323	civ Aktyubinsk	KAZ N50.1442	E57.1224
HAM 317	civ Hamadan	IRN N34.5200	E48.3300 ex HM
KO 635	enr Kotly	RUS N59.3642	E28.4624

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NZ	350	enr Nyazepetrovsk	RUS	N56.0300	E59.3500
WG	287	civ Kurumoch/Samara	RUS	N53.3212	E50.0848
ZBN	435	civ Zweibruecken	D	N49.1339	E07.2400
UK	351	Yukhnov on 350khz	RUS	N54.43	E35.13
QO	732	Aksinyino	RUS	N55.09	E38.17
KW	735	Kowiahy	UKR	N49.55	E35.53
KS	950	Kotlas	RUS	N61.16	E46.38

cf EUNL 11-98: NDB ERL on 363,5 kHz is surely not Erlangen/D (nr76)  
 NDB `OX` at Oxford airport has moved from 403.5kHz to 367.5kHz. Confirmed by  
 calling the airport! (tgG)

The following swedish marine NDB`s were deleted:

AL 286.5	Almagrundet Lt.	LO 289.5	Landsort South Lt.
LL 290.5	Hallo Lt.	OR 291.0	Orskar Lt.
UN 299.0	Understen Lt.	OB 301.5	Hoburg Lt. (tgG)

NDB `EETS` by tgG:

This morning I heard an NDB `EETS` on 367.5kHz for the second time in a couple of weeks. It is on the channel that `OX` at Oxford should be on. So I gave Oxford a call to see if it was their NDB with a faulty keyer. I spoke to a nice young lady at Oxford who told me that their NDB is poorly! She said that this also happened a couple of weeks ago. This would be when I logged `EETS` the previous time! She said that it only happens when it gets wet/damp and it will be OK as soon as it dries out!!

PIAB Bonn

The German government will cease its shortwave transmissions from 31.12.1997 on.

According to verified informatons December 1997 is the last month to catch those

transmissions at following sced:

Time (UTC)	Region	QRG	callsign
0830 - 1030	Middle-east	13438.6	DGN43H1
0830 - 1030	Eastafrika	18704.2	DGS70H5
0830 - 1030	westafrika	13570.9	DGN57I1
1500 - 1700	Southasia	9361.9	DGJ36I1

If you come across those transmissions and you want to report them to PIAB send your log to following adress:

Presse- und Informationsamt der Bundesregierung, welckerstrasse 11, 53113 Bonn, GERMANY. ----- Please add SASE/IRC to your report ----- (ti47)

Our very special thanks to the following (11) contributors: dmRU, wk08, pt53, hb31, pcG, tgG, zeTC, ti47 (as ti26/wilhelmshaven and ti55/Mainz), dmRU, mo76, ai47

gd dx + 73`s

EUROPEAN UTILITY NEWSLETTER 2-98

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*****
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* Dispatcher: Thomas Ingenpass
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* foreign currency - no cheques please!!
*
* Deadline: 20th of the month!!!
*
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Good afternoon,

I have added a new link from EUNL Home page: Callsign. There you find a list with over 9000 callsigns for your information. It is highly appreciated that this list should be expanded by sending in new callsigns or corrections. An e-mail to or snail-mail will do. We also have some very nice aero logs this time....

N D B

263	0253	QY	Sydney	CAN	id+dash	rk50
265	2313	KAV	Kavran-Pula	HRV	id	zeTC
267	0136	FNO	Haugesund/Foeyno	NOR	id	zeTC
268	2320	ZAR	Zarzaitine	ALG	id+tone	zeTC
270	0143	FLO	Flores	NOR	id	zeTC
274	2328	SAL	Sal	CPV	id+dash	zeTC+rk50
275	0146	MS	Monastir	TUN	id+	zeTC
275	2315	VG	Haugesund/Vaga	NOR	id	zeTC
276	0233	YHR	Chevery	CAN	id+dash	rk50
277	0137	CHT	Chiltern	G	id	rk50
280	0141	QX	Gander	CAN	id+dash	rk50
281	0302	CA	Cartwright	CAN	id+dash	rk50
284,5	2325	MA	Cabo Machichaco Lt.	E	id+tone	zeTC
285	2328	URB	Rom/Ciampino	I	id	rk50
286,5	2226	FI	Punta de Cala Figuera	E	id+tone	zeTC
288	1333	HH	Hoek van Holland Lt.	HOL	id+dash	rk50
288	2329	AVD	Avord/Couy	F	id+tone	zeTC
288,5	1333	YM	Ijmuiden Lt.	HOL	id+dash	rk50
288,5	2333	FI	Cabo Finisterre Lt.	E	id+tone	zeTC
289	1334	MBA	Mansbach	D	id	rk50
289,5	0845	NP	Punta Carena Lt.	I	id+dash	rk50
289,5	2338	MN	Hammerode Lt.	DNK	id+tone	zeTC
291,5	2234	EI	Emine Nos Lt.	BUL	id+tone	zeTC
291,5	2235	MN	Maslen Nos Lt.	BUL	id+tone	zeTC
292	0120	NKR	Neckar	D	id	zeTC
292	2342	NOV	Milano-Malpensa/Novara	I	id	zeTC
295	0053	NW	Nuernberg-west	D	id	zeTC
295,5	2335	EM	Etampes Mondesier	F	id+tone	nr76
296	0855	GR	Goeree Lt.	HOL	id+dash	rk50
296	2348	MG	Ljubljana	SVN	id	zeTC
297	0852	FR	Frankfurt	D	id	rk50
297	2240	C	Piestany-Centr	SVK	id	zeTC
297,5	0332	MAe	Maentyluoto Lt.	FNL	id+dash	zeTC+rk50
299a	0259	PV	UNID	?	id+dash	rk50
300	2344	SC	Linkoeping-Malmen	S	id	zeTC
303,5	2140	BJ	Bjoernsund Lt.	NOR	id+tone	zeTC
303,5	2133	GR	Gedser Rev. Lt.	DNK	id+tone	zeTC
304	2348	TND	Tandarei	ROU	id	zeTC+rk50
304a	0113	GO	UNID	?	id+dash	rk50
304	2126	ME	Punta della Maestra Lt.	E	id+tone	zeTC
305,5	2351	AL	Pointe d'Ailly Lt.	F	id+tone	zeTC
305,7	0112	DA	Dalatangi Lt.	ISL	id+dash (old format)	rk50
306	2350	PAR	Parma	I	id	nr76
306,5	0011	RS	Ristna Lt.	EST	id+long tone (2x=1min)	dmRU
307	0130	PG	Prague	TCH	id	rk50
307	2259	DIK	Diekirch	LUX	id	zeTC
307,5	2358	PA	Palma de Mallorca	E	id	zeTC
309,5	2228	MA	Marstein	NOR	id+tone	nr76
310	0058	KUR	Kuopio/Kurki	FIN	id	nr76+zeTC
311,5	0002	SA	Senigallia Lt.	I	id+tone	zeTC
312	2250	KBG	Karlsborg	S	id	zeTC
313,5	0840	CM	Cromer Lt.	G	id+dash	rk50+rk50
314	1930	WU	Wustrow Lt./Stralsund	D	id+tone	zeTC
316	0014	OE	Dublin	IRL	id	rk50
317,5	2257	TRP	Trapani-Brigi	I	id	zeTC
318	1931	LP	Roenneby	S	id	zeTC
319	2320	VAR	Varhaug	NOR	id	zeTC

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320	1003	HA	Hannover	D	id	rk50
320	2300	GLA	Gland	SUI	id	zeTC
321	0014	SP	Skrydstrup	DNK	id	zeTC
322	2305	VH	UNID	?	id (8x=1min)	dmRU
322	0204	BRN	Berane	YUG	id+dash	rk50
322	2321	KOR	Korsoe	FNL	id	rk50
323	0222	SBL	Sherburn-in-Elmet	G	id	rk50
323	0330	UWP	Argentia	CAN	id+dash	rk50
325	2255	TU	UNID	?	id (4x=1min)	dmRU
325	2355	JOE	UNID	?	id (7x=1min)	dmRU
325	0007	AC	Glasgow	G	id	rk50
325a	2258	LB	UNID	?	id (4x=1min)	dmRU
325	1933	KAU	Kaunas-Karmelava	LTU	id	zeTC
325	2148	DH	Oskarshamn	S	id	nr76+zeTC
325	2212	JOE	Joensuu	FIN	id	zeTC
326	2345	YW	Platform Tyra	IWA	id+dash	rk50
328	0053	TRO	Joday	LBY	id	nr76
329	2301	KQ	Krupki	BLR	id (6x=1min)	dmRU
329	2153	VX	Vaexjoe	S	id	zeTC
330	2306	TV	Alta/Talvik	NOR	id	nr76
330a	2315	PM	UNID	?	id	dmRU
330a	2315	HR	Union Oil Heather A	IW	id (5x=1min)	dmRU
331	0018	KAN	Kangas	FIN	id (8x=1min)	dmRU
331	0212	TLF	Toulouse	F	id+tone	zeTC
331	0215	S	Skellefteaa	S	id	zeTC
332	0210	LL	Lille-Lesquin	F	id	zeTC
332	0211	VA	Ylivieska-Raudaskyla	FIN	id	zeTC
333	0245	SHO	Platform Sean PD	IWA	id	rk50
333	2158	LE	Vaesteraas-Hasslo	S	id	zeTC
333	0027	G	Kemi-Tornio	FIN	id	zeTC
334a	2353	OPA	UNID	?	id	rk50
334	2223	GMM	Gormanston	IRL	id	zeTC
334	1935	FAU	Fauna	DNK	id+tone	zeTC
335	2341	RIM	Rimini Miramare	I	id	nr76
335	2331	SV	Skive	DNK	id	rk50
335	0020	TWN	Twenthe	HOL	id	zeTC
336	0001	LT	Halmstad	S	id	rk50
336	0159	AQ	Aberdeen	G	id	rk50
336,5	2008	NIK	Nicky	BEL	id	zeTC
337	0024	RMG	Romagnano	I	id	rk50
337	0147	LHR	Lahr	D	id	rk50
337	0033	MY	Myggenaes	FAR	id	zeTC
338	1254	RUD	Ruedesheim	D	id	rk50
339	2010	AY	Velikiyeluki	RUS	id	zeTC
340	2318	KAI	Utti/Kaipainen	FIN	id (7x=1min)	dmRU
340	0205	YY	Mont Joli	CAN	id+dash	rk50
340	0028	BLK	Banja Luka	BIH	id+tone	zeTC
342	2235	GG	Groningen	HOL	id	nr76
342	0031	OA	Alger/Houari	ALG	id+tone	zeTC
343	2331	KUS	Kaunas	LTU	id	rk50
344	2321	HEK	Hekka	FIN	id (7x=1min)	dmRU
344	2320	TR	Villefrance/Tarare	F	id+tone	nr76
344	0544	WIK	wick	G	id	rk50
344	2328	MN	Menorca	E	id	rk50
345	2321	XX	UNID	?	id (4x=1min)	dmRU
345	2340	PW	Syktyvkar	RUS	id (8x=1min)	dmRU
345	0036	SUS	Kouhava/Susi	FIN	id	zeTC
345	0037	FT	Foerde/Felten	NOR	id	zeTC
346	2243	MI	Mikkeli	FIN	id	dmRU+nr76
347,5	0138	TD	Tees-Side	G	id	rk50
348	2312	ATF	Aberdeen/Dyce	G	id	rk50
348	2325	VG	Vagar	FAR	id	rk50
348	0042	TPL	Topola	YUG	id+tone	zeTC
349	1931	SZA	Solenzara/Corse	F	id+tone	zeTC
350	2351	LAA	Oulu/Laanila	FIN	id (7x=1min)	dmRU
351	2022	NS	Malmoe-Sturup	S	id	zeTC
351,5	2016	PLA	Pula	HRV	id+tone	zeTC
352	0124	NEW	Newcastle	G	id	rk50

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352,5	2234	DD	Oostende	BEL	id	zeTC
354	2348	NG	Nimes/Garons	F	id+tone	nr76
355	2249	ARB	Ardabil	IRN	id (6x=1min)	dmRU
			(tnx to all guys who helped with its identification!!! dmRU)			
356	2335	KN	UNID	?	id (twice all 39 sec.)	nr76
356	0309	AY	Saint Anthony	CAN	id+dash	rk50
356	1754	SU	Surheim/Salzburg	AUT	id	zeTC
357	0046	NRG	Neubrandenburg	D	id+tone(2x)	zeTC
357,5	2206	KG	Sarajevo/Ilidza	BIH	id	zeTC+nr76
358	0050	GRK	Grakallen	NOR	id	zeTC+nr76
358	0052	RNN	Roanne/Renaison	F	id+tone	zeTC
358	0044	GRS	Oslo-Fornebu/Groensand	NOR	id	zeTC
359,5	2239	CDN	Chateaudun	F	id+tone	zeTC
360	0140	SR	Saarbruecken	D	id	rk50
360,5	2025	MAK	Mackel	BEL	id+tone	zeTC
361	2224	RO	Kauhava	FIN	id	nr76+zeTC
361	0049	ELB	Elba	I	id	zeTC
362	2228	NN	Eskilstuna	S	id	zeTC
362	0051	BVK	Baatvik	NOR	id	zeTC
363	0233	OE	Kristianstad/Everoed	S	id	zeTC
363	0054	AK	Akrotiri	CYP	id (QSB)	zeTC
363,5	2233	RSK	Romskog	NOR	id	zeTC
364	0059	RSO	Paris-Charles de Gaulle	F	id	zeTC
365	1952	VS	Tampere/Vesilahti	FIN	id	zeTC
365	0237	WS	Soederhamn	S	id	zeTC
366	2028	KM	Kalmar	S	id	zeTC
368	1955	PAK	Pakka	FIN	id	zeTC
369	1954	VRS	Vrsar	HRV	id+tone	zeTC
370	2317	PSA	Spessart	D	id	rk50
371	0112	BRS	Bremsnes	NOR	id	zeTC
372	0012	OZN	Prins Christian sd.	GRL	id	rk50
373	2256	NW	Maastrich	HOL	id	zeTC
374	2252	CBN	Cumbernauld	G	id	rk50
374	2244	TU	Tirstrup	DNK	id	zeTC
375	2310	TRZ	Lubin	POL	id	rk50
377	0110	PA	Rovaniemi	FIN	id	nr76
377	2248	PA	Rovaniemi	FIN	id	zeTC
378	0216	HO	Hopedale	CAN	id+dash	rk50
379	2002	REK	Reksten	NOR	id	zeTC
380a	0001	CBL	UNID	?	id	rk50
381	2036	ESP	Helsinki-Vantaa	FIN	id	zeTC
382	0956	FW	Frankfurt	D	id	rk50
382	2353	VLM	Vlasim	CZE	id	rk50
383,5	0119	GUL	Gulpen	HOL	id	zeTC
385	0316	NA	Natashquan	CAN	id+dash	rk50
385	2226	BO	Zadar/Bokanjac	HRV	id	zeTC
386,5	2314	SLV	Spa/La Sauveniere	BEL	id	zeTC
387	0128	CML	Clonmel	IRL	id	rk50
389	2043	MR	Myra-Skien	NOR	id	zeTC
390	2044	FLR	Floresti	ROU	id	rk50+zeTC
395	0038	KW	Kirkwall/Orkney	G	id	rk50
396	0138	JC	Rigolet	CAN	id+dash	rk50
397	2343	OP	Dublin	IRL	id	rk50+nr76
397	2010	NF	Falkoeping	S	id	zeTC
398	2353	GL	Aalborg	DNK	id	nr76
398	2354	AL	Aalesund/Vigra	NOR	id	rk50
400	0041	FC	Svir	BLR	2id	rk50
402	0059	KB	Platform Placid B	IWA	id	rk50
402,5	0130	LBA	Leeds and Bradford	G	id	zeTC
404	2341	DA	Dalen/Torp	NOR	id	nr76
404	2320	LA	Arlanda	S	id	rk50
404	0137	HR	Heather A/Unionoil	IW	id	zeTC
406	0040	MJ	Marseille/Provence	F	id+tone	nr76
407	2306	GAR	Garristown	IRL	id	zeTC
409	2048	MRA	Mragowo	POL	id	zeTC
410	2118	BO	Boden	S	id	zeTC
412	2049	I	Halli-India	FIN	id	zeTC
413,5	2355	GLT	Galati	ROM	id	zeTC+nr76

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416	0113	BCS	Bacchus	S	id	nr76
416	0025	TOR	Rovaniemi/Torano	FIN	id	nr76
416	0055	WZ	Newcastle	G	id	rk50
419	1325	EMT	Epinal/Mirecourt	F	id+dash	rk50
420a	2327	LGS	UNID	?	id	rk50
421	0050	BUR	Burnham	G	id	rk50
421	2248	FN	Roma-Fiumicino	I	id	zeTC
421	2249	SAL	Zadar-Sali	HRV	id	zeTC
423	0038	TS	Toulouse/Blagnac	F	id+tone	nr76
426	0047	HWQ	Platform Hewett A	IWA	id	rk50
430	1800	BUG	Bugac	HNG	id	zeTC
432	2258	AKU	Ivalo	FIN	id	zeTC
434	2301	THN	Thorn	HOL	id	zeTC
435	2352	ZBN	Zweibruecken	D	id	nr76+zeTC
490	0010	DVI	Donaueschingen	D	id	zeTC
518	2338	TM	Tomakovka	UKR	id (8x=1min)	dmRU
579	2019	TH	UNID	?	id (2x=1min)	dmRU
588	0249	SF	Simferopol	UKR	id	zeTC
615a	2332	OL	UNID	?	id (6x=1min)(Not OM/Gorm!)	dmRU
615	0247	OM	Platform Gorm	IW	id+ tone	zeTC
617	2331	SV	Steblev	UKR	id (2x=1min)	zeTC+dmRU
635	0020	GH	Minsk	BLR	id	zeTC
732	1454	KP	Kamienec Podolski	UKR	id	zeTC
733	1450	V	Kiev-Julayany	UKR	id	zeTC

## F I X E D

3314	1930	HEP3	Zurich Interpol?	SUI	cw-vvv	pcG
3803	2054+1200	UNID		?	cw-moscow time marks	dmRU
(used `hhmm` format, appx. 8 times per minute, with full zero -- 5 dashes)						
3875	2120	Gora-43		RUS?	usb-in RR	dmRU
(message: `ya Gora sorok tri, dlya vas nichevo ne imeyu; odin, dva, ...,desiat`)						
3886,5	0731	AEM1ZLB	MARS UNID	D	wkg AEM1JQ	ai47
3886,5	0732	AEM1JQ	MARS UNID	D	wkg AEM1ZLB	ai47
5341	1215	FDY	AF Orleans	F	cw-vvv	pcG
5367,5	0915	FDI22	AF Narbonne	F	cw-vvv	ai47
6815	0911		COMPAMARE Molfetta	I	wkg COMPAMARE Itaccio?	ai47
6815	0919		COMPAMARE Itaccio?	I	clg ICI13, no joy	ai47
6815	0955		COMPAMARE Razet?	I	wkg ICI	ai47
6844,5	1155	FDY	AF Orleans	F	cw-vvv	pcG
7965	1043	GWD 1	Unid station	?	CW w/O3GM, 2AAI, BMWI, NGAI,	
PMEG, KMKM. Looked like a sort of radio check. It went on for over an hour.						
Every call ended with ...de GWD1 R99T ? K or ...de GWD1 RTO ? No idea what that						
means. Other stations were very weak						
13927	1546	AFA3CB	MARS UNID	USA	wkg Reach 291	ai47
13974	1514	NNN0TDU	MARS Falmouth,ME	USA	wkg N0CXG	ai47
13993	1738	AFA1ED	MARS (or AFA1EB)UNIDD	USA	wkg UNID	ai47
(saying AFA3VB, AFA2MH and AFA1XN were also in the net)						
14385	1518	NNN0AHU	MARS UNID	?	wkg UNID	ai47
14391,5	1653	NNN0BMV	MARS Dell Rapids,SD	USA	wkg N0CXG	ai47
14402	1646	AAR3CB	MARS Shohola,PA	USA	wkg AAR1HG (Mike)	ai47
14402	1646	AAR1HG	MARS UNID	USA	wkg AAR3CB	ai47
14441,5	1503	NNN0HTE	MARS UNID	?	clg any station this net	ai47
14441,5	1504	NNN0KRQ	MARS Cincinnati,OH	USA	r/c N0CXG	ai47
14441,5	1513	NNN0ERA	MARS Cape Coral,FL	USA	r/c N0CXG	ai47

## M A R I T I M E

521,5	2149	IAR	Roma R.	I	cw-wx (?) for Tirren Sea	dmRU
1650	2207		CROSS Gris Nez	F	F wx	hb31
2182	1945	VON	St.John`s CGR	CAN	E all ships	nr76+hb31
2182	2134		CROSS Med	F	anns for QSY 1695	ai47
2182	2206		CROSS Gris-Nez	F	anns for QSY 1650	ai47
2182	1735		CROSS Corsen	F	QSY 1650	ai47
2182	2150		Arrecife R.	CNR	anns for QSY 1644	nr76+ai47
2182	1643		Dover Lifeboat	IW	r/c /w Oostende R.	ai47
2182	2006	EAL	Las Palmas R.	CNR	QSY 1689	nr76
2182	0636	IQP	S.Benedetto del Tronto	I	wkg unid ship, QSY 1855	ai47



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2182	1935	OFK	Turku R.	FIN	anns for nav. warn.	ai47
2182	1938		Palma R.	E	anns for 1755 khz	ai47
2182	0036	IPP	Palermo R.	I	QSY 1852	nr76
2182	0034	SVK	Kerkyra R.	GRC	id, for nav. warning	nr76
2182	1706	ZAD	Durres R.	ALB	id, for nav. warning	nr76
2182	2234	LGV	Vadoe R.	NOR	QSY 1674	nr76
2182	0107	VCM	St. Anthony CGR.	CAN	QSY 2598	nr76
2182	0134	LFO	Orlandet R.	NOR	QSY 2635	nr76
2265	0635	OXF	Qaqortoq R.	GRL	E/Dan nav warnings	hb31
2390	0034	PFYN	mv Ambassadeur	INT	USB clg mv Marietje Andrea	abNL
2390	0034	PFKB	mv klippergracht	INT	USB clg mv Amy	abNL
2390	0035	PHJU	mv Jens	INT	USB w/mv Heerenplein	abNL
2390	0043	PEDX	mv Francisca-S	INT	USB w/mv Regulus	abNL
2390	0048	PGML	mv Olivier	INT	USB clg .?. Ranger	abNL
2390	1007	PDXP	mv Eemsdiep	INT	USB w/mv Mercator	abNL
2390	2337	PFWG	mv Marinier	INT	USB clg mv Vissersbank	abNL
2390	2351	PGPL	mv Osiris	INT	USB w/mv Ladon	abNL
2390	0010	PEBN	mv Fenja	INT	USB w/unid vessel	abNL
2390	0024	P3ZL5	mv Batavier	INT	USB w/Heerenplein	abNL
2643	2012	A9M	Bahrain R.	BHR	cw-de a9m tlx + SITOR	dmRU
2643,5	2013	SPS	Witowo R.	POL	cw-de sps/tor k+many dots	dmRU
2677	1709		CROSS Corsen	F	F wx	hb31
3190	1946	USU	Mariupol R.	UKR	cw manually wkg tfc	pcG
3616	2045	GKY1	Portishead R.	G	cw-gky1 + SITOR	dmRU
3699,5	2048	P	RUS Navy Kaliningrad	KAL	cw-channelmarker	dmRU
3730	2200	LYL	Klaipeda Harbour R.	LTA	cw cq tfc	hb31
3737	2052	UIW	Kaliningrad R.	KAL	cw-wx bulletin	dmRU
4043	2101	P	RUS Navy Kaliningrad	KAL	cw-channelmarker	dmRU
4210,5	2120	ESA	Tallinn R.	EST	cw-esa + SITOR	dmRU
4219	2130	TAH	Istanbul R.	TUR	SITOR/A tlx/cw mkr	pcG
4235	2128	IAR	Roma R.	I	cw-vvv	dmRU
4259	2150	SAB	Gothenburg R.	S	SITOR/A Globewireless msg	pcG
4268	2115	VTG4	Ny Bombay	IND	cw-vvv	pcG
4283	2200	ZSJ	Ny Capetown	AFS	cw-cq	pcG
4294	2118	SXA34	Ny Piraeus	GRC	cw-vvv	pcG
4314	2134	LZW26	Varna R.	BUL	cw-de	dmRU
4317	2130	ZSC33	Capetown R.	AFS	cw-cq	pcG
4328	2136	JOS	Nagasaki R.	J	cw-cq	pcG
4346	2033	9AR	Rijeka R.	HRV	cw-vvv	dmRU
4352,5	2330	ZRH	Ny Capetown	AFS	cw `de zrh.....` mkr	pcG
6380	0702	UCW4	St. Petersburg R.	RUS	cw-cq RJFY/UCW4	ai47
6388	1708	EBA	Navy Madrid	E	cw-nav warnings in SS	dmRU
6485	2359	ESA	Tallinn R.	EST	cw-cq, wx	dmRU
8176	1204	VID	Darwin R.	AUS	E wx, tfc list	hb31
8442	2201	TCR	Tophane Kulesi R.	TUR	cw-cq, tfc list	ai47
8444,5	1505	KFS	San Francisco R.	USA	cw-cq	pcG
8450	1449	SUZ	Serapeum R.	EGY	cw safety msg (//12670.5)	pcG
8450	1730	RUF9	Krasnodar R.	RUS	cw msgs to ships (fast cw)	pcG
8450	0035	5AB	Benghazi R.	LBY	cw-cq (only on Nov 29th)	nr76
8451	0700	UBF2	St. Petersburg R.	RUS	cw-4LT3 DE UBF2	ai47
8454	1714	A9M	Bahrain R.	BHR	cw qtc list	pcG
8455	1700	UVA	Gelendzhik R.	RUS	cw-cq+qsw 4231.5/8455/12729	pcG
8459	1825	YQI4	Constanta R.	ROU	cw manually wkg yqrk	pcG
8461	1341	PKR	Semarang R.	INS	cw-cq - off by 1358	pcG
8473,5	1730	A7D	Doha R.	QAT	cw de a7d mkr	pcG
8474	1727	JYO	Aqaba R.	JOR	cw `de jyo qsx...` mkr	pcG
8476	1655	9VG	Singapore R.	SNG	cw manually wkg tfc	pcG
8484	1725	HLF	Seoul R.	KOR	cw wkg tfc	pcG
8492	0859	P	RUS Ny Kaliningrad	KAL	CW Channelmarker	abNL
8505	1519	TBO	Ny Izmir	TUR	cw `de tbo....`	pcG
8506	1500	YLQ	Riga R.	LVA	cw-cq	ai47
8515	1715	5AT	Tripoli R.	LYB	cw v/cq mkr	ai47+pcG
8523,4	0945	JOR	Nagasaki R.	J	cw-cq	pcG
8532	0908	LZW 42	Varna R.	BUL	CW Tfc list	abNL
8539	1835	VRX	Hong Kong R.	HKG	cw-cq	pcG
8542	1830	PKX	Jackarta R.	INS	cw-cq	pcG
8565	1820	D3E51	Luanda R.	AGL	cw-cq	pcG
8570	1001	RUA8	Petrozavodsk R.	RUS	cw-cq,tfc list vy fast cw	ai47

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8571	1100	JNA	JMSA Tokyo	J	cw-cq	ai47
8577	2128	HLO	Seoul R.	KOR	cw-cq (vy QSB)	dmRU
8601,5	0745	ZLO	Wellington?	NZL	cw `de zlo....` mkr	pcG
8604,5	2330	DZJ	Manila-Bulacan R.	PHL	cw-cq	pcG
8607	0755	USU	Mariupol R.	UKR	cw manual tfc	pcG
8607	0740	VIM	Melbourne R.	AUS	cw-cq	pcG
8632	2128	XSW	Kaohsiung R.	TWN	cw-cq	dmRU
8665	2126	XSG	Shanghai R.	CHN	cw-cq	dmRU
8682	1642	EAD	Madrid R.	E	cw-de	dmRU
8686	1558	HSA2	Bangkok R.	THA	cw weak cq mkr `hsa2/hsa4`	pcG
8686	1503	CNM	Casablanca R.	MRC	cw-cq ( hvy qrm to hsa2 )	pcG
8700	2347	9AR	Rijeka R.	HRV	cw-vvv	dmRU
8706	2124	JOS	Nagasaki R.	J	cw-cq	dmRU
12625,5	1202	UON	Baku R.	AZE	cw-4KK DE UON + TFC LIST	ai47
12670,5	1447	SUZ	Serapeum R.	EGY	cw-cq + safety msg	pcG
12673,5	1445	CLA33	Havana R.	CUB	cw-cq	pcG
12730	1005	USU	Maruipol R.	UKR	cw-cq	pcG
12735	1019	URL	Sevastopol R.	UKR	cw-cq	pcG
12795	1259	UCE5	Arhangelsk R.	RUS	cw-cq	ai47
12801	1025	TAH	Istanbul R.	TUR	cw-cq	pcG
12847	1029	WCC	Chatham R.	USA	cw-cq	pcG
12952,5	1224	VIP	Perth R.	AUS	cw wkg ships	pcG
12967	0720	UJE	Nizhnij-Novgorod R.	RUS	cw-wkg	ai47
13055	1500	UTQ	Kiew R.	UKR	cw-cq	ai47
16886	1415	TAH	Istanbul R.	TUR	SITOR/A tlx/cw mkr	pcG
16932	1409	7TF10	Boufarik R.	ALG	cw-cq...long..	pcG
16980	0713	UGW	Novorossiysk Fishery R.	RUS	cw 4LA de UGW	ai47
17107	0900	ESP	Parnu R.	EST	cw-vvv cq	nr76
17161,3	0954	VIP	Perth R.	AUS	cw wx msgs	pcG
17169	1000	A9M	Aden R.	BHR	cw manually wkg tfc	pcG

## A E R O

2941	2027		Rostov Volmet	RUS	usb-wx for Volgograd,AnapadmRU	
5680	0648		Longyear Aero	SVB	E wkg Bodo	hb31
8891	1641		Churchill Radio	CAN	E wkg plane	hb31
clearly identifying as `CHURCHILL Radio` although listed no as `Arctic Radio`						
4712	2234		Rostov Aero	RUS	USB clg Unid	ibG
5517	2229	INV-1233	Inversia of Latvia	AIR	USB wkg Cairo FL310	ibG
5517	2200	SMB-745	Simba Air Cargo	AIR	USB wkg Cairo	ibG
5517	1737	AUL-9204	Arkhangelsk Air	AIR	USB wkg Addis FL350	ibG
5517	2146	5Y-BEN	Kenya-312	AIR	USB wkg Addis Ababa FL370	ibG
5517	1803	3D-SBW	UNID	AIR	USB wkg Khartoum	ibG
5517	2144	TFS-615	UNID	AIR	USB wkg Cairo FL370	ibG
5517	2158	TNY-501	Air Tanganyika	AIR	USB clg Khartoum	ibG
5517	1858	AFB-682	Belgian Airforce	AIR	USB wkg Cairo FL210	ibG
5658	1526		Urumchi Aero	CHN	USB clg Unid station	ibG
5658	1505		Kandahar Aero	AFG	USB wkg Lahore, caught him	
twice, then switched to 3467 kHz - no good to me at that time						
5658	1902	VKO-2817	Vnukovo Airlines	AIR	USB clg Karachi	ibG
5658	1518		Uzbek-3531	AIR	USB wkg Karachi	ibG
5658	1613	TEP-2071	TransEuropean Airlines of Russia	AIR	USB wkg Karachi	ibG
6535	0709		Varig-726	AIR	USB wkg Dakar SELCAL-GSMR	ibG
6535	2306	LCO-1101	LADECO	AIR	USB wkg Dakar	ibG
6535	0750		Mauritanie-753	AIR	USB wkg Dakar	ibG
6556	1522		Uzbek-178	AIR	USB wkg Calcutta selcalESGMibG	
6556	1522		Vietnam-535	AIR	USB wkg Calcutta selcalLSCHibG	
6556	1535		Japan Asia-222	AIR	USB wkg Ujung Pandang	ibG
6556	1552		National Jet-5055	AIR	USB wkg Jakarta FL350	ibG
6556	1435	S2-ACH	Bangladesh	AIR	USB wkg Calcutta	ibG
6586	1725	ZS-MTD	UNID	AIR	USB wkg Dakar enroute Accra	ibG
6628	2319	TCT-1789	UNID	AIR	USB wkg New York	ibG
8861	0716		Khabarovsk METEO	RUS	USB yl with wx info+full ID	ibG
8861	1604		United Nations-962	AIR	USB wkg Canarias FL110 from Asmara to Tindouf (ALG)	ibG
8861	2150	GTS-9002	GATS Air	AIR	USB wkg Jo`burg requesting	
wx for Rabat, and Casablanca Posn on ground at Salvatore, (B)						
8861	1917	BLV-218	Bell View	AIR	USB wkg Recife, FL350	ibG

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8861	0755	TZ-NLM	Unid	AIR	USB	wkg	Dakar	ibG
8861	0752		Bamako Aero	MLI	USB	wkg	Dakar	ibG
8861	0831		Casablanca Aero	MRC	USB	wkg	Canarias w/ r-chk	ibG
8861	1740	6V-AGR	UNID	AIR	USB	wkg	Dakar	ibG
8861	1814	6W-STC	UNID	AIR	USB	wkg	Dakar	ibG
8894	1612		Adrar Aero	ALG	USB	wkg	Bechar Aero	ibG
8894	0641		Ain El Bey Aero	ALG	USB	wkg	Algiers	ibG
8894	0728		In Amenas Aero	ALG	USB	wkg	Algiers	ibG
8894	0815		Touggourt Aero	ALG	USB	wkg	Algiers & Adrar	ibG
8894	2205	SAZ-462	Swiss Air Ambulance	AIR	USB	wkg	Niamey	ibG
8894	0743		Tindouf Aero	ALG	USB	wkg	Adrar Aero vy clear	ibG
8894	1609		Tamanrasset Aero	ALG	USB	wkg	Alger	ai47
8894	0722		Aeroflot-435	AIR	USB	wkg	Algiers Regn:RA86523	ibG
8894	0727	RCN-103	Race Cargo	AIR	USB	wkg	Niamey FL330	ibG
8894	0844	7T-VIA	Air Algerie	AIR	USB	wkg	Algiers	ibG
8894	0823	7T-WIC	UNID	AIR	USB	wkg	Algiers	ibG
8894	0819	RTP-303	UNID	AIR	USB	wkg	Niamey	ibG
8894	0719		Gao Aero	MLI	USB	wkg	Niamey(gd readable)	ibG
8894	0730		United Nations-354	AIR	USB	wkg	Niamey & wkg Gao	ibG
8894	0803	7T-WIA	UNID (poss AirAlgerie)	AIR	USB	wkg	Bechar	ibG
8894	0734	7T-VRV	Air Algerie	AIR	USB	wkg	Algiers	ibG
8894	0749	7T-VIL	UNID	AIR	USB	wkg	Algiers & Bechar	ibG
8894	0807	7T-WHE	Air Algerie	AIR	USB	wkg	Algiers	ibG
8894	1548	7T-VRS	Algerian VIP/ Gvmt	AIR	USB	wkg	Algiers	ibG
8894	0744	5U-ABK	UNID	AIR	USB	wkg	Niamey	ibG
8894	0745	TF-JMC	Zimex	AIR	USB	wkg	Algiers	ibG
8903	2048		Sao Tome Aero	STP	USB	wkg	Kinshasa	ibG
8903	1940	5X-JET	DasAir-410	AIR	USB	wkg	Niamey	ibG
8903	2204	AAB-31T	Abelag Aviation	AIR	USB	wkg	N`Djamena FL390	ibG
8903	0727	TT-AAK	Air Chad	AIR	USB	wkg	N`Djamena	ibG
8903	1623	FTC-102	UNID	AIR	USB	wkg	N`Djamena	ibG
8903	1646	TL-ABZ	MINAIR	AIR	USB	wkg	Bangui	ibG
8903	1733	D2-FAV	Air Nacoia	AIR	USB	wkg	Luanda B707	ibG
8903	2049	TJ-CBB	Camair 3801	AIR	USB	wkg	Kano dept Cotonou	ibG
8903	1743	ASG-832	Air Service, Ukraine	AIR	USB	wkg	Libreville	ibG
8903	2032	EZR-722	Zaire Airlines	AIR	USB	wkg	N`Djamena Reg9G-MKF	ibG
8903	1552	RAN-556	Renan of Moldova	AIR	USB	wkg	N`Djamena/Bangui	ibG
8903	1735	7P-ANB	UNID	AIR	USB	wkg	N`Djamena	ibG
8903	1903		Dar-es-Salaam Aero	TZA	USB	wkg	Entebbe	ibG
8903	2204	ANI-606	Air Atlantic Cargo	AIR	USB	wkg	Kinshasa	ibG
8903	1606	LRE-6144	Lasare Air (Georgia)	AIR	USB	wkg	Bangui Regn4L-11304	ibG
8903	1734	SMB-746	Simba Air Cargo	AIR	USB	wkg	Kinshasa	ibG
8903	1703	5N-FGO	VIP/ Gvmt	AIR	USB	wkg	Kano	ibG
8903	1715	SPP-132	SpanAir	AIR	USB	wkg	Kano FL350	ibG
8903	2310	PVV-8871	Continental Airways/RUS	AIR	USB	wkg	Bangui Regn:RA76814	ibG
8903	1706	3X-GCB	Air Guinee	AIR	USB	wkg	Kano Douala to Kano	ibG
11300	1446	ACF-3604	Air Charter	AIR	USB	wkg	Cairo	ibG
11300	1456	YA-GAG	UNID	AIR	USB	wkg	Cairo FL330	ibG

## D I G I T A L

3200	2255	?	UNID GG MOI?	D?	ARQE/96/85	cont idle	pcG
3232,7	2209	RFF-	Paris FF	F	ARQ342/200/400/2ch		pcG
3331	1945	?	UNID Arabic	F	ITA2/50/170 AA news		pcG
4295	2114	HWN	Ny Paris	F	ITA2/75/850 ry/sg		pcG
4991,7	2230	RFFVAY	FF Sarajevo	BHI	ARQE342/200/400/2ch		pcG
5063	1500	?	UNID FF?	?	ARQE/192/400 cont idle		pcG
5430	1720	?	UNID FF?	?	ARQE/192/400 cont idle		pcG
5732,5	1221	RFF--	UNID FF?	F	ARQE/72/400 cont idle		pcG
6834	1715	RFFXL	FF Beirut	F	ARQE/184.6/400 XZL to Paris		pcG
6862,7	2220	RFFVAT	FF Incirlik	TUR	ARQE3/200/400 5lt gps	ESK	pcG
6936,7	1940	RFTPA	FF N`Djamena	TCD	ARQE3/200/400 cct to Paris		pcG
6963,8	2230	RF--	FF UNID	GUF	ARQE/192/170 GAG internal	cct	
either			Cayenne or Kourou rocket base c.d.v	msgs	- RFLIGA de RFLIGA		pcG
6976	1400-1600	RFFHC	Ajaccio, Corsica	F	ARQE/192/170 Monday test		pcG
7644,2	2105	RFF-	FF Paris	F	ARQ342/200/400/2ch		pcG
7710	1118	MKK	RAF London	G	BAUDOT 50 RYI + foxes		abNL

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8105	1645	RFFX	FF Paris	F	ARQE/184.6/400XXL to	
BeirutpcG						
8453	1423	HWN	Ny Paris	F	ITA2/75/850 ry/sg mkr	pcG
8475,5	1645	FUX	F Ny Le Port	REU	ITA2/75/850 ry/sg test	pcG
8541	0903	UIW	Kaliningrad R.	KAL	BAUDOT 50 Tfc in Cyrillic	abNL
12921	1031	MGJ	Ny Faslane	G	ITA2/75/360 carb msgs	pcG
16905	1405	FUV	F Ny Djibouti	DJI	ITA2/75/850 ry/sg testing	pcG
16915	1421	FUX	F Ny Le Port	REU	ITA2/75/850 ry/sg	pcG
16922	1415	RBSL	Ny Bombay	IND	ITA2/50/850 vth 5/7/9 ry	pcG
16927	1412	UIW	Kaliningrad R.	RUS	ITA2/50/170 ryry de uiw	pcG
16951,5	1006	6WW	F Ny Dakar	SEN	ITA2/75/850 ry/sg/le brick	pcG
17180	1005	HWN	Ny Paris	F	ITA2/75/850 ry/sg mkr	pcG

GERMAN MOI CHANNELS - AS MONITORED -- ALL ARQE MODE -- UPDATED:- 11/01/98 pcG

FREQ	BD	SHFT	CID	FROM	RID	TO	REMARKS
----	--	----	----	----	----	--	-----
2234.60	96	85	BYVHF	BONN	HFVBY	MUNICH	WAS IN USE
2235.60	96	85	THVHF	BONN	HFVTH	ERFURT	WAS IN USE
2294.60	96	85	BYVHF	BONN	HFVBY	MUNICH	IN USE (N)
2295.60	96	85	THVHF	BONN	HFVTH	ERFURT	IN USE (N)
2386.40	96	85	HFVBY	MUNICH	BYVHF	BONN	IN USE (N)
2386.80	96	85	HFVTH	ERFURT	THVHF	BONN	IN USE (N)
3200.00	96	85	? ( THIS FREQUENCY ON IDLE - EVENINGS/NIGHTS NOW OFF AIR )				
4619.80	96	85	? ( ON IDLE - POSSIBLY FOR EITHER HFVBY/HFVTH AWAITING CONFIRMATION )				
4971.40	96	85	HFVBY	MUNICH	BYVHF	BONN	WAS IN USE
4971.80	96	85	HFVTH	ERFURT	THVHF	BONN	WAS IN USE
4972.40	96	85	? ( THIS FREQUENCY ON IDLE -DAYS/EVENINGS NOW OFF AIR )				
4978.10	96	85	BYVHF	BONN	HFVBY	MUNICH	IN USE (D)
4979.10	96	85	THVHF	BONN	HFVTH	ERFURT	IN USE (D)
5022.80	96	85	? ( THIS FREQUENCY ON IDLE - DAYS/EVENINGS )				
5023.80	96	85	? ( THIS FREQUENCY ON IDLE AT TIMES/DAYS NOW OFF AIR )				
5263.60	96	85	BYVHF	BONN	HFVBY	MUNICH	( DAY )
5264.60	96	85	THVHF	BONN	HFVTH	ERFURT	( DAY )

THE EXTENSIVE MOI NETWORK WHICH WAS OPERATING UNTIL ABOUT AUGUST OF THIS YEAR HAS DISAPPEARED - BUT SOME OF ABOVE FREQUENCIES ARE ACTIVE AT PRESENT. TRAFFIC IS VERY IRREGULAR BUT CIRCUIT QVL CHECKS (EVERY 3 HRS) AND SERVICE MESSAGES WHEN DAY/NIGHT QSY, ARE SENT.

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IN ADDITION TO THE ABOVE THE FOLLOWING GERMAN MOI HAVE BEEN NOTED THESE ARE ALL FEC/A/96/85 AND SIMPLEX - NO CONTINUOUS CARRIERS!

4018.00	DEL55	??	OTHER DEL-- C/S ALSO ON
4035.00	DEB55	WIESBADEN	OTHER DEB-- C/S ALSO ON
5020.40	DEBW 2011	DEBE 3511	DEBC 2022 DEBS 9000 ALL HEARD
5198.80	DEB30	??	OTHER DEB C/S ALSO ON
5262.80	DEB--		VARIOUS C/S ON

ACTIVITY ON THESE FREQUENCIES IS VARIABLE - SOME DAYS NOTHING NO PATTERN FOUND YET. CODED TRAFFIC IS SIMILAR TO ABOVE BONN STATIONS - BUT SIMPLEX, C/S AND GERMAN P/LANGUAGE ( HELP NEEDED FROM GERMAN SPEAKERS!! )

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## Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AUS-Perth R.	101	cd (via GW)	8419	VIP (after years)		ai47
AUS-Perth R.	21	cd (via GW)	8419	VIP		lrG
CHL-Playa Ancha R.	65	f/d cd/vc,IRC	8522	CBV	1000 w	dmRU
CNR-Arrecife R.	16	f/d cd,booklet	1644	(via Madrid)		lrG
D -NDB Karlsruhe/Baden	11	ppc/ms	???	\KBA\	100 w	hb31
E -NDB Alcobenas	76	lt,ppc (hrd in POR)	417	\ACD\	60 w	ai47
E -NDB Madrid-Getafe	76	lt,ppc (hrd in POR)	421	\GE\	6 w	ai47
E -NDB Jerez	76	lt,ppc (hrd in POR)	433	\JRZ\	50 w	ai47
E -NDB Bailen	76	lt,ppc (hrd in POR)	418	\BLN\	200 w	ai47
E -NDB Moron	76	lt,ppc (hrd in POR)	428	\MNF\	100 w	ai47
E -NDB Sevilla	76	lt,ppc (hrd in POR)	420	\SPP\	100 w	ai47
E -NDB Granada	76	lt,ppc (hrd in POR)	412	\GRA\	20 w	ai47
E -NDB Badajoz	76	lt,ppc (hrd in POR)	298	\BJZ\	250 w	ai47
E -NDB Alemeria	76	lt,ppc (hrd in POR)	310	\AMN\	20 w	ai47
EST-Tallinn Volmet	21	f/d lt	4645			lrG
F -CROSS Gris-Nez	21	lt,i	2182		250 w	lrG
F -CROSS Gris-Nez	10	lt,info/ms	????		250 w	hb31
F -CROSS Gris-Nez	25	ppc,lt,i	2182		250 w	ai47
F -AF Narbonne	25	f/d lt,sti	5367,5	FDI22	400 w	ai47
FIN-Turku R	12	ppc,lt/SAE,IRC	1677	OFK		gsLX
FIN-Turku R.	20	lt/ms	???	OFK		hb31
G -Milford Haven CG	4	ppc,i/SASE	2596			gsLX
G -NDB Teeside	10	f/d lt/SAE	347,5	\TD\		lrG
G -NDB Swansea	5	f/d lt/SAE	320,5	\SWN\		lrG
G -NDB Aberport	6	f/d lt/SAE	370,5	\AP\		lrG
G -NDB Dundee	7	f/d lt/SAE	394	\DND\		lrG
G -NDB Southend	7	f/d lt/SAE	362,5	\SND\		lrG
G -NDB Gloucester	11	f/d lt/SAE	331	\GST\		lrG
G -NDB Yeovil	7	ppc/sae	343	\YVL\		lrG
G -NDB Cranwell	7	f/d lt/SAE	423	\CWL\	10 w	lrG
G -NDB Cambridge	8	ppc/SAE	332,5	\CAM\	25 w	lrG
G -Harwich Lifeboat	22	cd,ppc/ms	???			hb31
ISL-Vestmannaeyjar R.	19	cd via Gufunes (f/up)	2182	TFV		lrG
IW -Dover Lifeboat	17	ppc,vc	2182		250 w	ai47
IW -Campbeltown Lfb	14	ppc,lt,fo/SASE	2182			gsLX
IW -Ekofisk 2/4 H plf	50	ppc,i/SAE,IRC	2182	LF5U		gsLX
IW -Harwich Lfb	6	ppc,fo`s/SASE	2182			gsLX
IW -Koningin Juliana Lfb	25	ppc,fo/SAE,IRC	2182	PFKR		gsLX
IW -M/V Singa Star	75	ppc,lt/SAE,IRC	2182	9VNF		gsLX
IW -Maersk Chignecto	17	ppc,lt,i/SASE	2182	VCJC	250 w	gsLX
IW -Portree Lfb	11	ppc,i,fo/SASE	2182			gsLX
IW -Troon Lfb	24	ppc,lt,i,fo/SASE	2182		400 w	gsLX
NOR-Farsund R.	19	f/d lt/IRC	1785	LGZ		lrG
POL-Gdynia R.	13	cd	12598	SPA		lrG
RUS-Moscow R	128	f/d cd	12599,5	UAT		lrG
S -Gotland Rescue	26	cd	5680			lrG

ppc=prepared card, lt=letter, i=information, fo=photo, sti=sticker, vc=viewcard, cd=card, irc=international reply coupon, ms=mint stamps, rp=return postage, sked=schedule, sase=self addressed and stamped envelope, sae=self addressed envelope, f=folder, f/d full detailed, USD=US Dollar, c/a=central address

## Membership and Money corner:

The gentlemen fd40, rp47, hs61 haven't paid their membership fee in 11-97; ua58 and fgI in 12-97. May I remember you that you have due to renew for the paperversion, otherwise EUNL 2-98 will be the last you get. Fee with thanks received from: rb55, hb31, zeTC, bg48, wk08, km40, mo76, dp47, ps50, js38, ht45, sw67, fvI and pt53 (all until 11-98). pb40, kjs, koCH (until 02-99).

## Inquiries Department:

Help is wanted for the following UNID NDB's from tgG:

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BTD 355kHz 19/12/97 PA 376kHz 20/12/97 SKS 330kHz 3/1/98

Addresses/Infos/Veri-signers:

CROSS Gris-Nez: Centre Regional Operationnel de Surveillance et de Sauvetage du Cap Gris Nez, CROSS, F-62179 Audinghen. (v/s Philippe Frison, F8BGF)(hb31/lrG/ai47)  
INFO: weather at 08.33 and 20.33 local time, special bulletins at odd hours local time, strange however, because I picked them up at 2207 UTC! Frequencies are 2182, 1650 and 2677 kHz. (hb31)  
Campbeltown Lfb : Old Quay, Campbeltown, Kintyre, cotland (gsLX)  
Ekofisk 2/4 H/LF5U: Philips Petroleum Co Norway, P O Box 220, 4056 Tananger, Norway (gsLX)  
Harwich Lfb : Angel Gate, Harwich, Suffolk, UK (v/s Jon Rudd, Mechanic)(gsLX)  
Koningin Juliana Lfb /PFKR: Zeesluisweg 142, NL- 2583 DV Scheveningen (v/s J L Westerduin, Coxswain)(gsLX)  
Maersk Chignecto/VCJC: Maersk Supply Services, 4 Greenhole Place, Bridge of Don,  
G- Aberdeen AB23 8EU (v/s Lawrence Lacey, Master) (gsLX)  
Milford Haven MRSC: Gorsewood Drive, Hakin, Milford Haven, Dyfed SA73 3ER (gsLX)  
Portree Lfb : Portree, Isle of Skye, Scotland (v/s Kevin Simmister, Coxswain)(gsLX)  
Singa Star/9VNF: Fil-Harvest Marine Inc , 6th Floor, Salamin Bldg , 197 Salcedo St , Legaspi Village, Makati City, Philippines (v/s Josue C Gesite, Master)(gsLX)  
Troon Lfb : Troon Harbour, Troon, Scotland (v/s Clive Lawson)(gsLX)  
Turku R /OFK: Turku Maritime Traffic Centre, Turku Radio OFK, FIN-21670  
Päernäinen (v/s Göran Holström)(gsLX)  
NDB Aberport/AP: Professional Trials Engineer, Communications Supervisor, Air Ranges Dept , Dera Aberport Cardigan, Ceredigion, West Wales SA43 2BU (lrG)  
NDB Southend/SND: London Southend Airport, Co Southend on Sea, Essex SS2 6YF (v/s = C. Taylor, S T O )(lrG)  
NDB Gloucester/GST: Gloucestershire Airport Ltd , Staverton, Cheletenham, Gloucestershire GL51 6SR (lrG)  
NDB Kiel/KIL: Leitender Fluglotse, Kieler Flughafengesellschaft, Boelckestrasse 100, 24159 Kiel (rk50)

I received some direct addresses for Portuguese Beacons from rk50. In front of every address you should write `Aerportos e Navegacao Aerea` Mny tnx Reinhard!

Faro/FAR: MNAFAR, Apartado 2010, Aeroporto de Faro, P-8000 Faro  
Caparica/CP: Direccao de Exploracao da Navegacao Aerea para a Regiao de Lisboa, Technical Air Navigation Division, Rua C, Edificio 118, Aeroporto de Lisboa, P-1700 Lisboa  
Flores/FLO: MNAFL, Aeroporto das Flores, P-9970 Santa Cruz das Flores  
Porto/POR: MNAPOR, Aeroporto Francisco Sa Carneiro, P-4300 Porto  
Sao Miguel/MGL: MNAPD, Aeroporto Joao Paulo II, P-9500 Ponta Delgada  
Porto Santo/PST: MNAPS, Aeroporto de Porto Santo, 9400 Porto Santo

Solved NDB`s from EUNL 1-98:

554 OG = Russki Kameshkir (nr Penza, appx coords: 52 deg 50' N, 46 deg 10' E)  
1046a UR = Vologda on 1045 (appx coords: 59 deg 15' N, 39 deg 55' E)  
(OM Arkadi Smirnov via dmRU)

Verisigners:

Playa Ancha R./CBV: Fernando Saver White, Capitan de Fragata Lt. (dmRU)  
Farsund R./LGZ: Kjell Loland, Chief R. Officer, 2nd in Command (lrG)  
NDB Teeside/TD: v/s = M F Kelly, Head ATS (lrG)  
NDB Swansea/SWN: v/s = Ian R Parsons (lrG)  
NDB Dundee/DND: v/s = David Johnston, Airport Manager (lrG)  
Tallin Volmet: Mati Tarlap (lrG)

Summary of Changes from the National Air Traffic Service to 14.01.98 (by tgG)

RIG Maersk Curlew N5644.08 E00117. NDB 8 Ident, CLW 400kHz range 15nm.  
RIG Amend entry for INDE 49/18 Alpha Delta Platform, delete Ident IN, 378kHz and NDB range 10nm. Amend entry for INDE 49/23 Alpa Quebec Paltform, insert Ident TTA, freq 328kHz and NDB range 10nm.  
RIG New off shore platform Petrojari Fionaven in block 204/24 est, NDB `FOI`

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426.0kHz, hrs HO. Psn N6018.97 W00416.40 GOLAR NOR, NDB range 40nm.  
RIG New off shore platform schooner in block 44/26, NDB `CHO` freq 325.0kHz  
hrs HO, Psn N5404.00 E00206.00 Shell expro, NDB range 15nm.  
RIG Northern Producer FPSO, NDB `NDR` freq 343 range 20nm (B30/98)  
EGSM - BECCLES - `BE` NDB Withdrawn  
EGBB - BIRMINGHAM - NDB `BIR` insert NDB `BHX`.  
EGTK - OXFORD/KIDLINGTON `OX` LCTR freq chg to 367.5 khz. Range now 25nm.  
EGSY - SHEFFIELD CITY LOC SMF 333khz Hrs H24 N532333.50 W0012259.29 on AD  
range  
15nm. (D454/97)  
EGPD - ABERDEEN `AOS` NDB Withdrawn

EFR - Europaeische Funk-Rundsteuerung GmbH <by Ary Boender>

-----  
Many European dxers have logged DCF49 on 129.1 kHz The station is still listed  
by some publishers as `BMPT, Bonn`, but that is not correct So, if it isn't  
BMPT Bonn, then who is responsible for the transmissions? This month I have the  
true story for you My sincere thanks to Klaus Betke for his research and to  
EFR Berlin for their help and information

o Station : EFR Berlin  
o Callsign : DCF49  
o Transmission site: LW-facility Mainflingen  
o Radiated Power : 60 kw  
o Frequencies : 129.1 and 139.0 kHz  
o Transmission mode: 200 bps ASCII  
o Modulation : FSK  
o Control protocol : DIN 19244  
o Message format : FT 1 2  
o Service : Long wave Teleswitching

Long wave teleswitching is a new way in load management technology It replaces  
the well adapted ripple-control technology, which is widely used in the utility  
industry world-wide

First a few words about ripple control It is used for tariff-switching  
applications and load management as well as for the control of street lighting  
for example Basically, ripple control systems are used to spread information  
to lots of receivers installed in the supply region of a utility Today, ripple  
control is not considered to be a very economical method but, for that, a  
relatively safe method Ripple control systems use the existing mains as signal  
carrier (i. e. energy suppliers transmit 'tones' over the power lines for this  
purpose) Since the mains network is designed for 50 Hz, a ripple control freq  
of ca 100 Hz is being affected under certain circumstances Consequently the  
conventional ripple control will face changes due to new transmission methods  
and additional intelligence in modern receivers The newly offered long wave  
teleswitching system is using a radio channel to transmit the information via  
air, apart from that it follows the same basic principles known from  
conventional ripple control

The economical management of modern power supply systems requires possibilities  
to transmit commands to control the consumption of electricity at any time  
Audio frequency ripple control systems have been used for many years They help  
to transmit control commands from the control centre of an utility via the  
mains which can be received at any point of the network Many utilities are  
already  
using these systems (some 410 companies in Germany alone)

The main LW Teleswitching system components are:

- control centre
- central computer
- LW teleswitching transmitter
- LW teleswitch receiver

The CONTROL CENTRE of the utility consists of a standard computer system (PC)  
The program used, enables every participant to initiate this own messages A  
reference-receiver signalises back the messages sent by radio for monitoring  
purposes The CENTRAL COMPUTER is located in Mainflingen This computer serves

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to assign priorities, buffer, manage and pass on messages to the transmitter

The LW TELESWITCH RECEIVER is based on existing conventional ripple control technology. The network filter has been replaced by a RF (radio freq) filter. The area is fixed on the receiver but can also be installed separately, if the location poses problems. The receiver has a program memory to store repetitive control functions. This means that only program changes have to be transmitted.

The LW TRANSMITTER operates at carrier freqs of 129.1 and 139.0 kHz. Modulation is by FSK; keying is done by shifting between a freq above and below the carrier freq.

CONTROL TASKS Modern LW teleswitch can fulfil the same tasks as conventional ripple control. For example,

- switching tasks, such as:
  - o rate switching of multi tariff meters (night and day rates)
  - o switching of streetlights
  - o switching of water heaters (to cause heaters to use the night charge)
- load control tasks, such as:
  - o group heating control depending on the weather
  - o load decrease
  - o influence of load variation in industrial companies etc
  - o blocking of heat pump systems
- special tasks, such as:
  - o transmission of tariff information remote parameter assignment of receiver groups or individual receivers

A big thanks to our (12) contributors: zeTC (Tnx for your card, dear Zdenek!), tgG, pcG, dmRU, nr76, abNL, lrg, gsLX, rk50, ibG, hb31, ai47

gd dx + 73`s

EUROPEAN UTILITY NEWSLETTER 3-98

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*****
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* foreign currency - no cheques please!!                                  *
*
*                               Deadline: 20th of the month!!!           *
*****

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Hi there,

Welcome to another edition of our beloved journal. I have to announce, that I will be on holiday in March and I please you to send in your logs and informations for EUNL 4-98 before the 15th March to me. Thanks for understanding, that your`s truly needs a little bit relaxation to get some new power for new heroic deeds in the field of utility...Until the end of this year, our treasurer Norbert will also be the dispatcher. Due to professional reasons, OM Thomas can`t do the job for a while. Thanks Thomas, for your able work during the last year. The new `Spezial Frequenzliste` is now available. For more details, please take a closer look at the end of this issue.

N D B



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258	0003	RAD	Radovest	BUL	id	zeTC
258	0043	N	Mosnov-Nada	CZE	id	zeTC
265	2350	KAV	Pula-Kavran	HRV	id	mo76+zeTC
266a	0040	ZL	UNID	?	id (2x2id = 1 min)	zeTC
267	2354	FNO	Haugesund-Foeyno	NOR	id	mo76+zeTC
267,5	0005	OPW	Bucuresti-Otopeni	ROU	id	zeTC
268	0115	ZAR	Zarzaitine/In Amenas	ALG	id+tone	mo76
270	0210	FLO	Flores	AZR	id	zeTC
274	0052	JL	Yalta	UKR	id	mo76
275	0054	MS	Monastir/Msaken	TUN	id	zeTC+mo76
275	2359	VG	Haugesund-Vaga	NOR	id	zeTC
276,5	0000	BW	Bremen-west	D	id	zeTC
277	0059	CHT	Chiltern for Northolt	G	id	mo76
277	0058	GOL	Golyama	BUL	id+tone	mo76
284	0126	GRN	Gorna Oryahovitsa	BUL	id+tone	mo76
288	1237	DZ	UNID	?	id + 14 sec tone	ti47
289,5	1239	MN	Hammerodde	DNK	id x 3 + 16 sec tone	ti47
291	0131	Z	Helsinki/Vantaa	FNL	id	mo76
293	0135	STE	Wien/Steinhof	AUT	id	mo76
295,5	1613	JA	Jaroslawiece Lt.	POL	id + 14 sec tone	ti47
296	2148	MG	Ljubljana	SVN	id	zeTC
297,5	0453	MÄ	Mäntyluoto	FNL	id+tone	mo76
304a	0155	GG	UNID Eggegrund Lt.?	S?	2id+tone	zeTC
304a	0155	ÖM	UNID Lt.	?	2id+tone ---. --	mo76+zeTC
306,5	1947	H	Hel Lt.	POL	id + 17 sec. tone	ti47
306,5	2337	RS	Ristna Lt.	EST	id x 2 + 15 sec tone	ti47
307	1244	LE	Leba	POL	id + 11 sec tone	ti47
309,5	2148	EÄ	Evpatorija	UKR	id+tone	mo76
309,5	0457	MA	Marstein	NOR	id+tone	mo76
309,5	2149	OD	Odesskij	UKR	id+tone	mo76
309,5	2147	SW	Chersones	UKR	id+tone	mo76
309,5	2146	TR	Tarchankut	UKR	id+tone	mo76
312,5	2200	AT	Ajtodor	UKR	id+tone	mo76
314	1246	WU	Wustrow	D	id + 16 sec tone	ti47
317	2159	PPD	Poprad	SVK	id	zeTC
319	2324	VAR	Stavanger/Sola/Varhaug	NOR	id	mo76
322	2014	EF	UNID	?	id + 4 sec tone	ti47
324	0426	AS	Kemi-Tornio	FNL	id	mo76
326	2252	OMA	Omastrand for Bergen	NOR	id	mo76
326	1618	L	Kristianstad	S	id	ti47
329	0044	FJ	Alesund/Vigra	NOR	id	mo76
329	2254	KQ	Krupki	BLR	id	mo76
329	0140	VX	Växjö/Kronoberg	S	id	mo76
329	0503	WU	Umea	S	id	mo76
330	2253	TST	UNID	?	id	mo76
330	0017	LNA	Lena	S	id	zeTC
331a	2203	ZRA	UNID	?	id (10x = 1 min)	zeTC
333	2206	OPA	UNID	?	id (8x = 1 min)	mo76+zeTC
334	2343	GMN	Gormanston	IRL	id	mo76
334	1913	FAU	Bornholm-Fauna	DNK	id	ti47
336	2231	BTA	Bergen/Flesland/Bratta	NOR	id	mo76
337	0615	RMG	Romagnano for Cameri	I	id	mo76
340	2339	N	Roenneby	S	id	ti47
342	1618	AL	Mirolawiec	POL	id	ti47
344	2210	MN	Mahon/Menorca	E	id	mo76+zeTC
346,5	2214	BMN	Bremen	D	id	zeTC
349	2215	TAR	Orland/Tarva	NOR	id	mo76
350	2204	LAA	Laanila	FIN	id	zeTC
351	2247	OV	Visby	S	id	ti47
352	0414	NEW	Newcastle	G	id	mo76
352	0149	OA	Oslo/Fornebu/Asker	NOR	id	mo76
353	2018	KRT	Kartuzy	POL	id	ti47
355	2141	BTD	Bottna	S	id	mo76
357	1249	NRG	Neubrandenburg	D	id + 2 tones	ti47
357	2310	SEP	Seppi	FIN	id	zeTC
362	2214	BVK	Orsta-Volden/Baatvik	NOR	id	mo76
363	2020	ERL	Erlangen	D	id + 5 sec tone	ti47
365	2249	VS	Vesilahti	FIN	id	ti47

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366	2350	KM	Kalmar	S	id	ti47
368	2352	PAK	Pakka	FIN	id	ti47
368	2226	RK	Roskilde	DNK	id	zeTC
369	2224	VRS	Vrsar	HRV	id	zeTC
370	2353	OHT	Stockholm-Arlanda	S	id	ti47
372	2230	OZN	Prins Christian Sund	GRL	id	zeTC
374	2228	FLV	Bodoe/Fleinvaer	NOR	id	mo76
374	1919	BTH	UNID	?	id	ti47
375	1620	CHO	Chociwel	POL	id	ti47
375	2253	TR	Platform Tor-Ekofisk	IW	id	zeTC
376	2246	LN	Hulsfred	S	id	zeTC
376a	2236	CLT	UNID	?	id (8x = 1 min)	zeTC
378	2308	RSY	Stavanger/Rennesoy	NOR	id	mo76
378	2328	RSY	Rennesoy	NOR	id	zeTC
378	2350	KLY	Killiney	IRL	id	zeTC
380	2358	LF	Roenneby	S	id	ti47
381	2358	AB	Akraberg	FAR	id	zeTC
382	2250	EGN	Aigina	GRC	id	zeTC
383	1254	LAG	Rostock-Laage	D	id + 2 tones	ti47
383,5	0029	ARF	Arifiye	TUR	id	zeTC
384	0033	HNS	Hoeynes	NOR	id	zeTC
385	0150	AVN	Vilnius	LTU	id	zeTC
385	0153	MSE	Munich	D	id	zeTC
386	0337	BZ	Brize Norton	G	id	mo76
386	1918	LK	Tallinn/Ulemiste	EST	id	mo76
387	2244	JL	Kuopio	FIN	id	zeTC
390	0036	ITR	Istres/Le Tube	F	id+tone	zeTC
392	1256	RW	Berlin-Tege1	D	id	ti47
392	0038	RAN	Ranta	FIN	id	zeTC
393	2220	TAT	Molde/Aro/Tautra	NOR	id	mo76
396	0045	RON	Ronchi	I	id	zeTC
397	2310	EHN	Eindhoven	HOL	id	zeTC
399,5	0004	ONO	Oostende	BEL	id+tone	zeTC
404	2232	VNG	Vangsnes	NOR	id	mo76
406	0044	GRO	Grosseto	I	id	zeTC
407	0408	GAR	Dublin/Garristown	IRL	id	mo76
409	1258	DAR	Darlowo	POL	id	ti47
411	0010	M	Kruunupyy	FIN	id	zeTC
416	0051	BCS	Bocchus	S	id	zeTC
418	1920	L	Tallinn/Ulemiste	EST	id	mo76
423a	2250	OMK	UNID	?	id (5x = 1 min)	zeTC
424	0210	PIS	Pisarovina	HRV	id+tone	zeTC
425	0058	KE	Kosice	SVK	id	zeTC
426	2246	BC	Bacau	ROU	id	mo76
435	1611	ZBN	Zweibrücken	D	id	zeTC
435a	0108	GHT	UNID	?	id (8x = 1 min)	zeTC
438	0110	B	Bratislava-Barka	SVK	id	zeTC
445	0115	TU	UNID	?	id+tone	mo76
516	2041	XU	Namest n. Oslavou	CZE	id	zeTC
520	0756	AE	UNID	?	id	ti47
520	2350	BS	Budaoers	HNG	id	zeTC
529	0131	SV	Sofia	BUL	id	zeTC
620	1740	K	Praha-Kalda	CZE	id	zeTC
690	1808	SR	Serende	UKR	id	zeTC
732	1731	KP	Kamienec Podolski	UKR	id	zeTC
733	1730	V	Kiev-Julyany	UKR	id	zeTC
840	2001	FG	Kaliningrad	KAL	id	zeTC
850	1640	BN	Bronitsae	UKR	id	zeTC
985	1648	CP	Brest	BLR	id	zeTC
1145	2019	LT	Lyutezh	UKR	id	zeTC

## F I X E D

3768,5	2225	FDY	AF Orleans	F	cw-vvv	wk08
3951	0818	VLDR	unid, tactical	?	cw-wkg msg, 5lg	ti26
5342	2059	FDY	AF Orleans	F	cw-vvv	mo76
5701,5	2130	FDE14	AF Contrexeville	F	cw-vvv	mo76
5723,5	1438	FDG	AF Bordeaux	F	cw-vvv	ti26

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6560	2040	YDN	UNID	?	cw-vvv cq de ydn	pt53
6769,5	1240	SNN299	MFA Warszawa	POL	cw-id in F1A-mode vvv vvv	ti17
6844	1333	FDY	AF Orleans	F	cw-vvv	ti17
6871	1242	HEP7	INTERPOL Zurich	SUI	cw-vvv	mo76+ti17
7335	1245	FDI8	AF Nice	F	cw-vvv	ti17
7335,5	1245	FDY	AF Orleans	F	cw-vvv	wk08+ti17
7407,5	1339	FDI22	AF Narbonne	F	cw-vvv	ti17
7472,5	1144	FDY	AF Orleans	F	cw-vvv de fdy	mo76+ti17+pt53
7663,8	1250	FDG	AF Bordeaux	F	cw-vvv	ti17
7805	1135	FDG	AF Bordeaux	F	cw-vvv	mo76+ti26
7855,5	1051	FDG	AF Bordeaux	F	cw-vvv	ti47
7871,7	1252	LN2A	PTT Oslo	NOR	cw-wkg id+synch+phasing	ti17
7915,5	1342	FDE14	AF Contrexeville	F	cw-vvv	ti26
7917	1347	FDE14	AF Contrexeville	F	cw-vvv	ti47
8052	1345	FDI8	AF Nice	F	cw-vvv	ti17
8094,5	0949	FDY	AF Orleans	F	cw-vvv de fdy	ti17+pt53
8117	2130	BMB	Taipei METEO	TWN	cw-cq de bmb freq3641/5909.pcG	
8142,5	1128	FDG	AF Bordeaux	F	cw-vvv de fdg	ti17+pt53
8437	1801	4XZ	Ny Haifa	ISR	cw-vvv de 4XZ	pt53
9186	0920	HEP9	INTERPOL Zurich	SUI	cw-vvv	ti26
9425	1358	FDG	AF Bordeaux	F	cw-vvv	ti26
9496,5	0957	FDG	AF Bordeaux	F	cw-vvv	ti17
9900	1418	FDI8	AF Nice	F	cw-vvv	ti26
10144	1120	DK0WCY	DARC Suederbrarup	D	cw-id `AURORA-BEACON`	ti26
10144	1149		Unid	?	cw-msg 5lg cyrilic,vy fastti26	
10308,5	1419	FDG	AF Bordeaux	F	cw-vvv	wk08+ti17
10315	1051	J4P	NATO Preveza	GRC	usb-wkg MAGIC55	wk08
10407	1358	LN2A	PTT Oslo	NOR	cw-id + synch + phasing	ti47
10473,5	1359	FDI8	AF Nice	F	cw-vvv	ti47
10493	1707	WGY912	FEMA Berryville,VA	USA	OM E clg WGY915, no joy	mo76
10871,8	1400	P	Ny Kaliningrad	KAL	cw-marker	wk08
11210,5	1418	FDI8	AF Nice	F	cw-vvv	ti26
12187	0848		Unid, tactical?	?	cw-msgs 5ng, RUS type 0=T	ti47
16332	1036	RCV	Ny Moscow	RUS	cw-channelmarker C	ti17
16332	1036		Ny Arkhangel'sk	RUS	cw-channelmarker S	ti17

M A R I T I M E

1635	2239	LGV	Vardoe R.	NOR	YL,EE wx	lrG
1635	2240	FFU	Brest-le-Conquet R.	F	OM,FF	lrG
1674	1940	SDJ	Stockholm R.	S	USB,gale-warn.//1710,1797	pt53
1695	1750		CROSS Med	F	USB,F, fv, wx	pt53
1704	1734	OXZ	Lyngby R.	DNK	USB,Dan/E,tape, fv, stand-by	pt53
1707	1940		Machichaco R.	E	USB,E/S, tfc-list	pt53
1710	1939	SDJ	Stockholm R.	S	USB,gale-warn.//1674,1797	pt53
1713	2141	PCG	Scheveningen R.	HOL	USB,E,gale-warn.	pt53
1725	1925	LGQ	Rogaland R.	NOR	USB,E,tfc	pt53
1734	1735	OXZ	Lyngby R.	DNK	USB,Dan/E,tape, fv, stand-by	pt53
1752	2036	EJK	Valentia R.	IRL	USB,E,wx, ID	pt53
1758	1736	OXZ	Lyngby R.	DNK	USB,Dan/E,tape, fv, stand-by	pt53
1764	2035	EAF	Finisterre R.	E	USB,S/E nav. warning	pt53
1770	1922	FFB	Bologne-sur-Mer R.	F	USB,F,nav. warning	pt53
1770	1941	LGP	Bodoe R.	NOR	USB,E/norw., nav. warning	pt53
1785	1943	LGZ	Farsund R.	NOR	USB,E/Norw. gale-warn.	pt53
1792	1959	7TA	Algiers R.	ALG	USB,F,ID,tfc	pt53
1797	1940	SDJ	Stockholm R.	S	USB,gale-warn.//1674,1797	pt53
1869	1636	GKZ	Humber R.	G	USB,E,tide-warning	pt53
1883	1905	GPK	Portpatrick R.	G	USB,E,tfc-list,wx	pt53
1888	1942	IAR	Rome R.	I	USB,I,wx	pt53
1906	1807	FFM	Marseille R.	F	USB,F,wx,mv // 2649	pt53
1931a	1620	LFI	Rogaland R.?	NOR	cw-id+sitor (QRG?, ed)	zeTC
2054	0706	VAJ	Prince Rupert CG	CAN	OM wx/info	lrG
good sig.	Peaks, no s/off	VAE Tofino CG, listed	at 0650 UTC on 2054	.....		lrG
2182	0110		UNID MV	IW	clg Singapore R. !	lrG
2182	0036		USCG Chesapeake, FL	USA	OM anns	lrG
2182	2353	OZL	Ammassalik R.	GRL	OM,wx QSY	lrG
2182	2308	VOK	Labrador CG	CAN	OM,QSY 2598	lrG
2182	2235		Malta R.	MLT	OM,EE clg for tfc	zeTC+lrG

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2182	0005	Cabo de Gata R.	E	OM,SS pan alert	pt53+lrG
2182	2103	ICBS mv Stella Orion	IW	E/I clg Augusta R.	zeTC
2182	2105	CUB Madeira R.	MDR	E/P anns QSY 2843	zeTC
2182	1959	7TA Algiers R.	ALG	USB,F,ID,working QRG	pt53
2182	1934	OSU Oostende R.	BEL	USB,E/Nl, QSY 2761	pt53
2182	1703	OXZ Lyngby R.	DNK	USB,E,QSY 1734,1704,1758	pt53
2182	2035	EAF Finisterre R.	E	USB,E/S QSY	pt53
2182	1936	EAL Tarifa R.	E	USB,E/S QSY 1704	zeTC+pt53
2182	1634	EAO Palma R.	E	USB,E/S QSY 1755	zeTC+pt53
2182	1933	EAR La Coruna R.	E	USB,E/S ID, QSY	pt53
2182	1933	EAS Cabo Penas R.	E	USB,E/S ID, QSY 1677	pt53
2182	2007	Chipiona R.	E	USB,E IDs, QSY	pt53
2182	1938	Machichaco R.	E	USB,E/S QSY 1707	pt53
2182	1703	CROSS Corsen	F	USB,F QSY	pt53
2182	1750	CROSS Med	F	USB,F QSY 1695	lrG+pt53
2182	1921	FFB Bologne-sur-Mer R.	F	USB,F QSY 1770	pt53
2182	1803	FFM Marseille R.	F	USB,F mv, QSY 1906, 2649	pt53
2182	1939	FFU Brest-le-Conquet R.	F	USB,F QSY	pt53
2182	1933	GKZ Humber R.	G	USB,E QSY 1869	pt53
2182	1934	GLD Land`s End R.	G	USB,E QSY 2670	pt53
2182	2138	PBK Netherlands CG	HOL	USB,E ID, QSY 1713	pt53
2182	1941	IAR Rome R.	I	USB,E/I QSY 1888	pt53
2182	0139	IPB Bari R.	I	USB,E/I QSY	pt53
2182	2009	IDC Cagliari R.	I	USB,E/I QSY	pt53
2182	1935	ICB Genova R.	I	USB,E/I QSY 2722, 1925	pt53
2182	0135	IDF Messina R.	I	USB,E/I QSY	pt53
2182	0138	IPP Palermo R.	I	USB,E/I QSY 2632, 2666	pt53
2182	1935	IQX Trieste R.	I	USB,E/I QSY1865,2624,2666	pt53
2182	2033	EJK Valentia R.	IRL	USB,E, QSY 1752	pt53
2182	0434	EJM Malin Head R.	IRL	USB,E, QSY 1677	pt53
2182	1933	LGQ Rogaland R.	NOR	USB,E/norw. QSY 1692	pt53
2182	1735	LGZ Farsund R.	NOR	USB,E/Norw. tfc-list	pt53
2182	1733	SPH Gdynia R.	POL	USB,E/POL,ID, QSY 1692	pt53
2182	2005	SPN Witowo R.	POL	USB,E/Poln. anns `no tfc`	pt53
2182	1933	YQI Constanta R.	ROU	E,ID by YL, QSY 2748	pt53
2182	1933	SDJ Stockholm R.	S	USB,E, QSY	pt53
2182	0654	EJET UNID	IW	OM E,clg Ruegen R.,no joy	mo76
2182	0753	FZKX Estoril	IW	OM clg Boulogne R.(3x)	mo76
2182	2013	A7GQ UNID	IW	OM E clg Oran R., no joy	mo76
2265	0038	OXF Qaqortoq R.	GRL	OM,EE wx (good signal!)	lrG
2357,5	????	OUA32 Ny Aarhus	DNK	cw,naws de ovk	pt53
2649	1809	FFM Marseille R.	F	USB,F, mv, wx, //1906	pt53
2670	0012	UNID USCG	USA	OM (weak)	lrG
2748	1933	YQI Constanta R.	ROU	USB,E, fv, wx	pt53
2799	2134	SVH Iraklion R.	GRC	USB,Gr/E, wx	pt53
3763	1928	PBK Netherlands CG	HOL	USB,E, ID, gale-warning	pt53
4154,3	1058	DHJ59 Ny wilhelmshaven	D	USB wkg DRDP for Test	ti17
4154,3	1745	DRAO FGS Luebeck	IW	USB wkg DHJ59, msgs, qsl	ti17
4154,5	0615	DREU FGS Sulzbach-Rosenberg	IW	OM E clg DHJ59 for r/c	mo76
4219	1815	TAH Istanbul R.	TUR	SITOR/A tlx/cw mkr	pcG
4222	1930	XSN Ningbo R.	CHN	cw-cq	pcG
4223	1800	UCW4 St. Petersburg R.	RUS	cw-cq //rjfy	pcG
4231	1915	A7D Doha R.	QAT	cw-de	pcG
4231,5	2100	UVA Gelendzhik R.	RUS	cw-cq de uva qsw 4231.5/..wk08	wk08
4241	1855	LGW Rogaland R.	NOR	cw-cq -list 4241.5-	wk08
4244	2247	PPR Rio R.	B	cw-vvv	pcG
4245	1710	UFN Novorossiysk R.	RUS	cw-de	pcG
4253	1932	TAH Istanbul R.	TUR	cw-cq	pcG
4260	1935	TBA2 Ny Ankara	TUR	cw-vvv	pcG
4268	1945	VTG4 Ny Bombay	IND	cw-vvv	pcG
4283	2130	ZSJ NY Capetown	AFS	cw-cq	pcG
4294	2110	SXA34 Ny Piraeus	GRC	cw-vvv	pcG
4308	2120	HLG Seoul R.	KOR	cw-cq	pcG
4314	2105	LZW26 Varna R.	BUL	cw-tfc-list	pcG+pt53
4346	2101	9AR Rijeka R.	HRV	cw-vvv 2/3/z ch 3/4/7	pt53
4402	1741	EQN Bandar Khomeini R.	IRN	E/Farsi tfc, OM clg	zeTC
4415,8	2001	UBF2 St. Petersburg R.	RUS	cw-4lt3 de ubf2	wk08
4474	1402	ICT Ny Taranto	I	OM E clg IGRO, no joy	mo76

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6355	1915	USU	Mariupol R.	UKR	cw-cq	pcG
6357	0353	SAA	Karlskrona R.	S	cw-cq	pcG+ti26
6379	0354	4XZ	Ny Haifa	ISR	cw-vvv DE 4XZ 4XZ 4XZ==	ti26
6382	0356	TBA6	Ny Ankara	TUR	cw-vvv TBDJ DE TBA6 QAP	ti26
6386	,5	1730	USO5	UKR	cw-wkg utun	pcG
6386	,5	1940	ZSJ	AFS	cw-cq	pcG
6389	0358	CTP	NATO Oeiras HQ	POR	cw-id DE CTP CTP CTP	ti26
6390	1945	AQP4	Ny Karachi	PAK	cw-vvv	pcG
6481	2215	TBH3	Ny Golcuk	TUR	cw-t43b vvv tbh3	wk08
6501	2330	NMN	USCG CAMSLANT	USA	usb-id,wx //8764	wk08
6505	,3	2225	ZRH	AFS	cw-de zrh 4 6 8 12	wk08
6506	,9	2232	ZRQ	AFS	cw-vvv zrq 2/4/5/6	wk08
7863	,5	1139	SPW	POL	cw-de spw	pt53
8335	,3	1134	DRAO	IW	USB wkg DHJ59, msgs, qsl	ti17
8417	1724	GKE4	Portishead R.	G	cw,gke 4 + SITOR	pt53
8418	1725	IAR	Rome R.	I	cw,iar + SITOR	pt53
8418	1725	UFN	Novorossiisk R.	RUS	cw,ufn + SITOR	pt53
8418	,5	1727	LGB2	NOR	cw,lgb tlx + SITOR	pt53
8420	1731	FFT	St. Lys R.	F	cw,fft + SITOR	pt53
8420	,5	1732	HEC18	SUI	cw,hec + SITOR	pt53
8420	,5	1732	9VG78	SNG	cw,9VG + SITOR	pt53
8421	1733	A7D	Doha R.	QAT	cw-de a7d tlx	pt53
8421	1733	OXZ	Lyngby R.	DNK	cw-oxz + SITOR	pt53
8421	,5	1734	LZW4	BUL	cw-de lzw	pt53
8424	1736	SVT	Athinai R.	GRC	cw-de svt	pt53
8425	1753	FFT43	St. Lys R.	F	cw,fft + SITOR	pt53
8425	,5	1802	HEC28	SUI	cw,hec + SITOR	pt53
8426	,5	1755	9VG79	SNG	cw,9VG + SITOR	pt53
8427	1803	OXZ	Lyngby R.	DNK	cw,oxz + SITOR	pt53
8427	,5	1804	A9M	BHR	cw,a9m tlx + SITOR	pt53
8429	1805	EAD	Madrid R.	E	cw,ead + SITOR	pt53
8430	1808	9VG39	Singapore R.	SNG	cw,9VG + SITOR	pt53
8432	1809	YLQ	Riga R.	LVA	cw,ylq scan + SITOR	pt53
8432	,5	2210	UFN	RUS	SITOR/A msg to udec	pcG
8435	,5	1810	OST40	BEL	cw,ost + SITOR	pt53
8440	,6	1827	UAT	RUS	cw-de uat qsx	pt53
8444	,5	0855	KFS	USA	cw-cq	pcG
8445	2259	XSX	Keelung R.	TWN	cw-cq	pcG
8445	,5	0055	WLO	USA	cw-de wlo	ti26+pt53
8448	1824	A9M	Bahrein R.	BHR	cw-cq qsx	pt53
8450	1455	SUZ	Serapeum R.	EGY	cw-cq + safety msgs	pcG
8457	1829	OFJ	Helsinki R.	FNL	cw-ofj qsx	pt53
8459	2321	LSD836	Argentina R.	ARG	cw,lsd 836 + SITOR	pt53
8473	,5	0047	A7D	QAT	cw-de a7d	pt53
8474	1709	JYO	Aqaba R.	JOR	cw-cq de jyo qsx	pt53
8482	1713	SPH41	Gdynia R.	POL	cw-de sph 41/61/81 qsx	pt53
8494	,8	1408	P	KAL	cw-marker	wk08
8496	0049	CLA20	Havana R.	CUB	cw-cq de cla qsx	pt53
8515	2258	5AT	Tripoli R.	LBY	cw-v/cq mkr	pcG
8528	,5	1946	EBA	E	cw-cq de eba navarea tree	wk08
8532	1732	LZW49	Varna R.	BUL	cw-de lzw49 lzw49	mo76
8566	,1	0345	ZSJ	AFS	cw-cq	ti26
8570	0902	RUA8	Petrozavodsk R.	RUS	cw-cq de rua 8, msgs	pt53
8570	2345	WNU	Slidell R.	USA	cw-cq qsx	pt53
8571	2247	JNA	Tokyo R.	J	cw-cq	pcG
8572	0350	TBA7	Ny Ankara	TUR	cw-vvv TBDJ DE TBA5 7	ti26
8573	2348	CLA21	Havana R.	CUB	cw-cq qsx	pt53
8580	1502	RKLM	Arkangelsk R.	RUS	cw-4ly de rkml qsx....	mkr pcG
8582	2351	XSN	Ningbo R.	CHN	cw-cq de xsn qsx	pcG+pt53
8586	2353	WCC	Chatham R.	USA	cw-cq	pt53
8589	2355	HPP	INTELMAR Panama	PNR	cw-vvv,cq, qsx	pcG+pt53
8589	2145	HPP	Panama R.	PNR	cw v/cq (long) mkr	pcG
8590	1530	VTK	Ny Tuticorin	IND	cw-vtk 2/3/4/5/6/7	pcG
8590	1600	XVS	Ho Chi Minh R.	VTN	cw-cq + tfc list	pcG
8601	,3	1740	ZLO	NZL	cw-de	pcG
8614	1745	URL	Sevastopol R.	UKR	cw-de	pcG
8624	2358	XSQ	Guangzhou R.	CHN	cw-cq	pt53
8634	0000	PPR	Rio R.	B	cw-vvv qsx	pt53

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8658	0006	ASK	Karachi R.	PAK	cw-vvv de ask qsx	pt53
8662	0029	TAH	Istanbul R.	TUR	cw-cq de tah	pt53
8682	0034	EAD3	Madrid R.	E	cw-de ead2/ead3 qsx	pt53
8683,5	2205	LFI	Rogaland	NOR	cw,lfi + SITOR	pt53
8686	1718	CNP	Casablanca R.	MRC	cw-cq, qsx	pt53
8688,5	2230	ZSC6	Capetown R.	AFS	cw-cq	pcG
8692,5	0037	SVD4	Athen R.	GRC	cw-de svd 4	pt53
8704	0040	SVB4	Athen R.	GRC	cw-de svb 4/5/6	pt53
8705	1501	RFA	Astrakhan R.	RUS	cw v/cq mkr	pcG
8761	1000	OSU41	Oostende R.	BEL	usb-OM id,tfc list	wk08
8764	1300	GPU46	Portishead R.	G	usb Mayday Relay- C6MX8	wk08
8764	1803		Kaliningrad R.	KAL	R YL clg any ships	zeTC
8788	1008	SPC42	Gdynia R.	POL	usb-YL clg 3ENP4	wk08
8797	1811	UTQ	Kiev R.	UKR	UKR YL tape id`s	zeTC
10192,5	1450	DRAO	FGS Luebeck	IW	USB wkg DHJ59, msgs,qs1	ti17
10722	0822	DRAO	FGS Luebeck	IW	USB wkg DHJ59, msgs,qs1	ti17
12615,5	1711	8PO	Barbados R.	BRB	cw-id+sitor	zeTC
12670,5	1456	SUZ	Serapeum R.	EGY	cw safety msgs as //8450	pcG
12676,7	1520	LFI	Rogaland R.	NOR	cw-lfi+sitor -NEW-	wk08
12693,8	1729	ZRQ5	Ny Capetown	AFS	cw-vvv zrq 2/4/5/6	pt53
12737,3	2120	PPR	Rio de Janeiro R.	B	cw-vvv de ppr time signal	wk08
12800	1507	HSA3	Bangkok R.	THA	cw-cq + qtc list	pcG
12801	1314	TAH	Istanbul R.	TUR	cw-cq qsx	pt53
12804	1323	YQI	Constanta R.	ROU	cw-cq de yqi 5 msgs	pt53
12819,5	1700	NMN	USCG Chesapeake	USA	cw-id+sitor	zeTC
12823,5	1337	CTP	Ny Oeiras	POR	cw-de ctp qsx	pt53
12826,5	1340	WNU	Slidell R.	USA	cw-cq qsx	pt53
12835,4	1342	GKB5	Portishead R.	G	cw-de gkb qsx	pt53
12844,8	1538	KFS	Palo Alto R.	USA	cw-cq, qsx	pt53
12847	1536	WCC	Chatham R.	USA	cw-cq de wcc qsx	pt53
12849	1540	ZSJ5	Ny Capetown	AFS	cw-cq qsx	pt53
12856	1401	XSG	Shanghai R.	CHN	cw-cq qru?	pt53
12859	1400	SVD5	Athen R.	GRC	cw-de svd 5	pt53
12925	1500	RFA	Astrakhan R.	RUS	cw vvv/cq mkr	pcG
12970,5	1233	PKX	Jakarta R.	INS	cw-cq	pcG
13002	1635	KPH	San Francisco R.	USA	cw-cq qsx	pt53
13023	1557	D3E62	Luanda R.	AGL	cw-cw cq qsx	pt53
13024,9	1626	WLO	Mobile R.	USA	cw-de wlo obs ...	pt53
13029	1554	SVB5	Athen R.	GRC	cw-de svb4/5/6 qsx	pt53
13041,9	1622	XVS9	Ho-Chi-Minh-Ville R.	VTN	cw-cq de xsv, tfc-list	pt53
13055	1551	UTQ7	Kiew R.	UKR	cw-cq de utq qsx	pt53
13057	1619	EBA	Ny Madrid	E	cw-cq de eba	mo76
13062	1547	CLA	Havana R.	CUB	cw-cq de cla qsx	pt53
13197	1307	UUI	Odessa R.	UKR	usb-YL Govarit Odessa R.	wk08
16820	1702	WLO	Mobile R.	USA	cw-id+sitor	zeTC
16836,5	1706	WLO	Mobile R.	USA	cw-id+sitor	zeTC
16841,5	1709	8PO	Barbados R.	BRB	cw-id+sitor	zeTC
16879	0933	LZW	Varna R.	BUL	cw-id+sitor	zeTC
16880	0934	XSQ	Guangzhou R.	CHN	cw-id+sitor	zeTC
16886	0935	TAH	Istanbul R.	TUR	cw-id+sitor	zeTC
16893	0936	USU	Mariupol R.	URK	cw-id+sitor	zeTC
16898,5	0937	UAT	Moscow R.	RUS	cw-id+sitor	zeTC
17147	1237	URL	Sevastopol R.	UKR	cw-cq	pcG
17161,3	1220	VIP	Perth R.	AUS	cw navwarnings msgs	pcG
17165,6	1230	CLA41	Havana R.	CUB	cw-cq	pcG
17175,2	1240	A9M	Bahrain R.	BHR	cw-cq	pcG
17184,8	1555	KFS	Palo Alto R.	USA	cw-cq mrk	pt53
19692,5	0940	ZSC	Capetown R.	AFS	cw-id+sitor	zeTC
19697	1558	8PO	Barbados R.	BRB	cw-id+sitor	zeTC
22377	0945	GKE7	Portishead R.	G	cw-gke7+sitor	wk08
22380	0946	PCH75	Scheveningen R.	HOL	cw-pch + sitor	wk08
22381	1050	9VG84	Singapore R.	SNG	cw-id+sitor	zeTC
22382	1051	NRV	USCG Guam	GUM	cw-id+sitor	zeTC
22385	0949	OXZ	Lynby R.	DNK	cw-oxz + sitor	wk08
22387,5	0950	SVU7	Athinai R.	GRC	cw-de svu + sitor	wk08
22389	1054	9VG98	Singapore R.	SNG	cw-id+sitor	zeTC
22395	0953	USU	Mariupol R.	UKR	cw-usu + sitor	wk08
22401	0956	HEC62	Bern R.	SUI	cw-hec + sitor	wk08

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22459	1013	XSX	Keelung R.	TWN	cw-cq de xsx qsx	wk08
22471,5	1022	SVD7	Athinai R.	GRC	cw-de svd7	wk08
22592,5	1027	A9M	Bahrain R.	BHR	cw-cq de a9m qsx ch2/3/4	kwk08
22595,7	1030	SVB7	Athinai R.	GRC	cw-de svb 4/5/6/7 qsx	wk08

## A E R O

4976	1754		Reykjavik Aero	ISL	USB,E,wkg a/c Calendate?	pt53
5517	0026		Cairo Aero	EGY	USB,E,wkg Air France 6570	pt53
5517	0029		Addis Abeba Aero	ETH	USB,E,wkg Contact 310	pt53
5517	0014		Nairobi Aero	KEN	USB,E,clg Addis Abeba	pt53
5517	0040		Tripolis Aero	LBY	USB,E,wkg KLM 598	pt53
5517	0038		Khartoum Aero	SDN	USB,E,wkg Madagascar	pt53
5517	1756		Seychelles Aero	SEY	OM E wkg Mogadiscio	mo76
5517	1756		Mogadiscio Aero	SOM	OM E wkg Seychelles Aero	mo76
5517	2141		Djibouti Aero	DJI	OM E wkg Mogadiscio; r/c	mo76
5517	2142		Addis Ababa Aero	ETH	OM E wkgDjibouti,COTAM1034	mo76
5589	2035		El Al LDOC	ISR	USB,hebr tfc	pt53
5601	0205		Ezeiza Volmet	ARG	USB,Sp,wx by YL,ID	pt53
5649	1620		Shanwick Aero	IRL	USB,E,wkg Speedbird 177	pt53
5670	1740		Chennai Aero	IND	OM E wkgKuala Lumpur Aero	mo76
5670	1740		Kuala Lumpur Aero	MLA	YL E wkg Chennai Aero	mo76
5680	1305		Gotland Rescue	S	OM E wkg Riga Rescue	mo76
5680	1321		Kokside Rescue	BEL	OM E r/c with unid stn	mo76
5685	1359	ICI01	UNID	?	OM It wkg ICI01	mo76
5685	1359	ILD	UNID	I	OM It wkg ICI01	mo76
5680	1143		Kinloss Rescue	G	USB,E,wkg Rescue 11	pt53
5696	2328		CAMSLANT Chesapeake	USA	OM E wkg D3N + 63A	mo76
6604	2029		Gander Volmet	CAN	USB,E,mv, Volmet, ID	pt53
6604	2030		New York Volmet	USA	USB,E,Volmet	pt53
6728	1445	DHN66	NATO Geilenkirchen	D	usb-clg NAT011 for r/check	kwk08
8825	2138		New York Aero	USA	USB,wkg Falcon	pt53
8837	2145		UNID	?	USB,hebr, ment. Malta	pt53
8879	1843		Perth Aero	AUS	wkg Singapore 406	lrG
8879	1816		Sanaa Aero	YEM	clg Dar-es-Salaam Aero	lrG
8879	1752		Dar-es-Salaam Aero	TZA	clg Moroni Aero	lrG
8879	????		Mumbai Aero	IND	wkg Korean 502	lrG
8879	1725		Moroni Aero	COM	wkg a/c 462	lrG
8879	1751		Gander Aero	CAN	USB,E,wkg Gillair	pt53
8879	1624		Shanwick Aero	G	USB,E,wkg Gander	pt53
8903	0627		N`Djamena Aero	TCD	OM F wkg Bangui	pt53+mo76
8903	0627		Bangui Aero	CAF	YL F wkg N`Djamena	mo76
8903	2213		Sao Tome Aero	STP	OM E,id,mtg`ETA Sao Tome`	mo76
8930	1516	ASG407	Air Service Ukraine	AIR	usb-wkg Stockholm,phonepat	wk08
10027	1303		CSA Praha	CZE	usb-wkg UCF	wk08
10027	1303	OK-UCF	CSA Flight	AIR	usb-wkg Praha /TU154M	wk08
11220	1003	SAM973	USAF Special Air Mission	AIR	usb-wkg Andrews, pp	wk08
13304	1118		ElAl Tel Aviv	ISR	usb-OM Hebr., wx	wk08
13339	1241	EI-BNA	SAUDIA 923	AIR	usb-wkg SAUDIA Jeddah Ops	wk08

## D I G I T A L

518	2335	SDJ	Stockholm R.	S	SITOR NAVTEX, MRCC CORSEN	ti26
4030	1910	RF---	FF? UNID	F?	ARQE/69,1/400unusual speed?	pcG
4227	1910	IGJ42	Ny Augusta	I	ITA2/100/850 c/s mkr	pcG
4334	2245	FUX	FNy Le Port	REU	ITA2/75/850 ry/sg testing	pcG
4944	0745	?	Unid Arab MFA?	?	ARQE/85,7/170 idle/ crypto	pcG
4991,7	1715	RFFVAY	FF Sarajevo	BHI	ARQ342/200/400/2chFKWA/FKWB	pcG
5049,2	1715	CSP	Viseu Police?	POR	SITOR/B PP vehicle msgs	pcG
5148	1300	?	UNID	?	cw cont 5 ltr groups	pcG
5200,5	1100	?	UNID DCN?	G?	PICC/? single chan idle	pcG
5221	1500	RFF---	FF? UNID	F	ARQE/72/400 UFD znr msg	pcG
5245	1036	RFF---	FF? UNID	F	ARQE/72/400UFC Ex,EXPLOITEX	pcG
5301	1300	RF---	Ajaccio/Bastia ?	F	ARQE/192/400 `fm centrans	
			ajaccio to centrans bastia" ry test		msg poor copy - no CID given	pcG
5376	1200	RFF---	FF? UNID	F	ARQE/72/400UDF Ex,EXPLOITEX	pcG
5430	2030	RF---	Ajaccio/Bastia ?	F	ARQE/192/400 cont idle - see	
			also 5301 these freqs are never on at same time ?			pcG

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5459	1336	RF---	FF? UNID	F	ARQE/72/400	idle	pcG
5494,7	0009		UNID	?	rtty,50/1000,	ry only	pt53
5732,5	DAILY	RF---	FF? UNID	F	ARQE/72/400	usual cont	idlepcG
6834	2200	RFFXL	FF Beirut	LBN	ARQE/184,5/400	XZL to Paris	pcG
6836,7	1945	RFTPA?	N`djamena?	TCD	ARQE3/200/400	not cfm`d?	pcG
6887	0824		Unid, Milmet? Meteo	?	RTTY 50	METAR-reps B AF	ti47
6963,8	NIGHT	RFL--	Cayenne/Kourou?	GUF	ARQE/192/170	CID 3D GAG	pcG
6972	1705	YOG59	Bucharest ROMPRES	ROU	ITA2/50/400	FF news	pcG
6985	1129	PBC	Ny Noordwijk	HOL	PSK!!!	Naval BCST encry.	ti26
7000,5	DAILY	?	DCN? UNID	?	PICC/?	cont crypto+regidles	pcG
7614	MONDAY	RFFH	FF Marseille	F	ARQE/192/170	Mon test msgs	pcG
7642,7	1730	RFFR	FF Paris	F	ARQ342/200/400/2ch	FDXA/FDXB	pcG
7716	DAYS	RFF--	FF Ajaccio	F	ARQE/192/170	EHQ cct	pcG
7729,5	1920	MKK	DCN London	G	PICC/6	2ch/ ch1 gyu de mkk	pcG
7808	1430	DZFG	MFA Belgrade	SRB	ITA2/75/400	dzfg dzfg ryry	pcG
7831,5	2305	5ST	Tananarive Aero	MDG	ARQE3/48/400	ch de 5st	pcG
7841,7	2100	RFFXI	FF Bangui	CAF	ARQE/96/400	XZI to Paris	pcG
7946	1735	RFVI	FF Le Port	REU	ARQE/96/400	ITT to dzaoudzip	pcG
7976,7	2130	RFF--	FF Paris	F	ARQE3/200/400	5ltr gps poor	
					copy should be	AVA Paris - Dhahran ?	pcG
8020	1224	HMF85	KCNA Pyongyang	KRE	rtty,250/50,ry,	ID	pt53
8028	1130	V5G	tent. MFA Bucharest	ROU	RUM-FEC 164.5	bd,circ.,ID	pt53
8050,2	2105	RFQP	FF Djibouti	DJI	ARQ342/200/400	2ch QPB/QPC	pcG
8063,2	2130	RFFR	FF Paris	F	ARQ342/200/400	2ch PQB/PQC	pcG
8074,5	2100	?	DCN? UNID	?	PICC/6	2 ch idle/crypto	pcG
8099,3	0956	DOR	tent. MFA Sofia	BUL	rtty,500/200,	bulg. nx	pt53
8106	1547	IGJ	Ny Augusta	I	RTTY 100	CARB-msgs	ti17
10424	1157	YMA20	Meteo Ankar	TUR	RTTY 50	id with RY-tape	ti26
10945	1212	CFH	Ny Halifax	CAN	RTTY 75	NAWS, ZKR-tape	ti26
11453	0843	IMB33	Meteo Roma	I	RTTY 50	NNXX(?)-reports	ti26
11536	1230	HMF49	KCNA Pyongyang	KRE	rtty,250/50,	ry, ID, E-nx	pt53
12134	1015	DOR	tent. MFA Sofia	BUL	rtty,500/200,	bulg. nx	pt53
12180	1419	RAU	Unid, Diplo? SOUD? DoSC??		RTTY 75	msgs of 5ng	ti47
12891	1350	UFN	Novorossiysk R.	RUS	rtty,170/50		pt53
13852	1028		tent. POL Emb. Madrid	E	POL-ARQ,	tfc to Warsaw	pt53
13933	1034	DOR	tent. MFA Sofia	BUL	rtty,500/200,	bulg. nx	pt53
13956,3	1041	BDF	tent. MFA Tunis	TUN	SITOR-B,ry	de bdf,F msgs	pt53
14407,0	1350	MKD	DCN Cyprus	CYP	PICC/6	2ch muh de mkd ch1	pcG
14585,7	1515	RFTPA	FF N`djamena	TCD	ARQE3/200/400	FDZ to Paris	pcG
18265	1051	CNM78	MAP Rabat	MRC	rtty,50,F,nx		pt53
19860	1120	MGJ	Ny Farslane	G	rtty,850/75	marker	pt53

T I M E S I G N A L

4996	2139	RWM	TS Moscow	RUS	cw-id,at 2140	timesynch	ti17
9996	1339	RWM	TS Moscow	RUS	cw-id,at 1340	timesynch	ti47

FRENCH FORCES ( INTERNAL ) EXERCISES - ARQE/72/400 UNLESS STATED by pcG  
JANUARY/FEBRUARY 1998

FREQ	CID	RID	DAY	DATE	REMARKS
3824	?	?	THU	5 FEB 2231	IDLE - NIL TFC - OFF BY MORNING
3886	?	?	THU	5 FEB 2230	IDLE - NIL TFC - OFF BY MORNING
4875	?	?	WED	4 FEB 1718	IDLE - NIL TFC
5075	?	?	THU	5 FEB 1911	IDLE - OFF BY 1915 - NIL TFC
5221	UFD	UDF	TUE	27 JAN	RFFXCCS DE RFFXCFD=20
5227*	UAF	UFA	WED	4 FEB 0930	RFFEDFA DE RFFEDCS FM CENTRANS FAVIERES TO RFFEDFA/CENTEXPLSLI EX. SLI
5245	UFC	UCF	WED	28 JAN	EX. EXPLOITEX MSG
5247	?	?	TUE	3 FEB 1710	ON IDLE - NIL TFC
5247	?	?	THU	5 FEB 1910	IDLE - OFF BY 1920 - NIL TFC
5376	UDF	UFD	TUE	27 JAN	RFFXCFD DE FAVIERES/RFFXCD DE RFFHCFC FM COMFORCE UN TO COMFORCE DEUX
5459	UDF	UFD	MON	2 FEB	IDLE - OFF BY 1630 - NIL
5459	UDF	UFD	TUE	3 FEB 1700	EX. EXOREG 98/01 MSGS
5459	UDF	UFD	TUE	3 FEB 1200	RFFHCFC DE MARSEILLE
5732.5	?	?	DAILY		CONT. IDLE - NIL TFC



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5797.5\* UFA UAF WED 4 FEB 0940 SOUGE DE RFFEDFA ZFX UAF014 EX. SLI  
 5893 UFD UDF THU 5 FEB 0840 EX. EXOREG 98/01 MSGS  
 6850 UFB UBF TUE 3 FEB 1305 EX. FARSIC 98 RFFHCFC DE RFFEDFB  
 FARSIC AVANT DEUX DE FARSIC AVANT UN STILL ON 1700  
 6850 UFB UBF THU 5 FEB 1020 EX. FARSIC 98 TFC  
 6886 UCF UFC TUE 3 FEB 1705 EX. FARSIC 98 RFFHCFC DE RFFEDFB  
 6886 UCF UFC WED 4 FEB 1650 EX FARSIC 98 MSGS  
 6886 UCF UFC THU 5 FEB 0825 EX. FARSIC 98 MSGS  
 7355 UBF UFB THU 5 FEB 1400 EX. FARSIC 98 SOUGE DE RFFEDFB  
 7361 UFC UCF THU 5 FEB 1400 EX. FARSIC 98 RFFEDFB DE RFFHCFC  
 7390 ? ? THU 5 FEB 1440 IDLE - NO MSGS  
 7595 UCF UFC THU 5 FEB 1410 EX. FARSIC 98 RFFHCFC DE RFFEDFB  
 FREQUENCIES MARKED \* USING ARQE/184.5/400

Exercises usually begin on Tuesdays ( often frequencies will be on air idling on Mondays ) and usually end on Thursdays, occasionally they extend over a weekend.

There is usually a long summer break and there are never any during public holidays like Christmas or Easter. Most activity seems to take place during 0800 - 1800 utc, but often night frequencies are used (2/3/4 mhz) Daytime frequencies range from 4- 7 mhz, with 5 mhz having the majority of freqs as is to be expected with circuit distances involved. The oddball frequency is 5732.5 (and there used to be 5862.5) which never seems to anything but idle - has been going for at least 5 years to my knowledge - and I have monitored it for many many days!! The CID/RID sequences are usually UAF/UFA UBF/UBF etc... The words Favieres and Souge presumably are some sorts of acronyms -but what ? - maybe one of our French speaking monitors can translate. Exercise names usually contain a reference to the year and number i.e. EXOREG 98/01 FARSIC 98 other popular names are BRIGATRANS.... EXEAT... and BOOMERANG.....

The routing indicators RFFEDFB etc..follow the normal pattern so approximate location areas can be worked out, but probably some stations are mobile. The exercise messages contain a wide variety of humorous, topical and historic material.

GERMAN MOI STATIONS ARQE/96/85 UPDATE AS :- 11/2/98 by pcg

FREQ	BD	SHFT	CID	FROM	RID	TO	REMARKS
2294.60	96	85	BYVHF	BONN	HFVBY	MUNICH	IN USE ( N )
2295.60	96	85	THVHF	BONN	HFVTH	ERFURT	IN USE ( N )
2386.40	96	85	HFVBY	MUNICH	BYVHF	BONN	IN USE ( N )
2386.80	96	85	HFVTH	ERFURT	THVHF	BONN	IN USE ( N )
3200.00	96	85	?	(THIS FREQUENCY ON IDLE - NIL TRAFFIC ( D/N )			
4619.40	96	85	HFVBY	MUNICH	BYVHF	BONN	IN USE ( D )
4619.80	96	85	HFVTH	ERFURT	THVHF	BONN	IN USE ( D )
4972.40	96	85	?	(THIS FREQUENCY ON IDLE - NIL TRAFFIC ( D / N )			
4978.10	96	85	BYVHF	BONN	HFVBY	MUNICH	IN USE ( D )
4979.10	96	85	THVHF	BONN	HFVTH	ERFURT	IN USE ( D )

Q S L - R E V I E W

ITU-Station	Days rcvd/gvn	QRG	Callsign	Power	Name
B -Juncao R.	145 lt (f/up)	16918	PPJ	1 kw	lrG
B -Juncao R.	264 lt/vc,ppc	12689,5	PPJ	1 kw	ti47
BHR-FALCON Bahrain	84 f/d lt (f/up)	11354		5 kw	lrG
BRB-Bridgetown R.	14 cd via Globe w.	16841.5	8PO		lrG
CAN-Placentia R.	104 f/d lt,i	2598	VCP	5 kw	lrG
D -PIAB	13 lt/ms,SAE	13438,6			pt53
D -NDB Hannover/East	21 ppc direct	320	HA	100 w	mo31
D -NDB Karlsruhe	80 ppc direct	431	KBA	100 w	mo76
D -NDB Zweibruecken	3 ppc direct	435	ZBN	125 w	mo76
EST-NDB Tallinn	22 lt,i, ppc direct	386	LK	300 w	mo76
EST-NDB Tallinn	22 lt,i, ppc direct	418	L	300 w	mo76
F -NDB La Rochelle/Laleu32	ppc,i direct, f/up	322	RL	50 w	moF29
F -NDB Figari/Sud Corse	10 ppc direct	325	FA	30 w	moI
F -NDB Rennes/St. Jacques8	ppc direct, f/up	349	RS	25 w	moF

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F -NDB Bastia/Poretta	71	ppc, infos direct	369	`BP`	25	w	moI
F -NDB Calvi/St. Catherine	10	ppc,business cd dir.	375	`CV`	50	w	moI
F -NDB Marseille	58	lt,ppc,i direct	395	`OB`	25	w	mo76
FNL-NDB Lappeenranta	12	ppc,i,photo direct	392	`RAN`	500	w	mo76
G -NDB Ronaldsway	43	lt	359	`RWY`			lrG
G -Kinloss Rescue	73	lt,PPC/vc,USD(retour)	5680				pt53
G -NDB Sumburgh	1	ppc via fax/faxed rpt	351	`SUM`		w	mo76
G -NDB Newcastle	13	ppc via fax/faxed rpt	352	`NEW`	75	w	mo76
G -NDB Bristol	27	ppc for fax rpt	380	`BRI`	40	w	mo76
G -NDB Prestwick	23	ppc after fax f/up	426	`PW`	60	w	mo76
HNG-NDB Budaörs	35	lt,ppc via Budapest	520	`BS`	25	w	moAUT
HNG-NDB Budapest/Ferihegy	35	lt,ppc via Budapest	420	`HM`	50	w	moAUT
HNG-NDB Gyor	35	lt,ppc via Budapest	354	`GYR`	100	w	moAUT
HNG-NDB Pusztaszabolcs	35	lt,ppc via Budapest	386	`PTB`	100	w	moAUT
HNG-NDB Tokol	35	lt,ppc via Budapest	285	`DU`	500	w	moAUT
HWI-Kahalelani R.	51	cd/vc,USD	12611,5	KEJ			pt53
I -NDB Padova	9	lt,ppc,i direct	285	`PDV`	50	w	moI
I -NDB Capo Ferro	28	lt,ppc, viewcd	291	`CF`	100	w	moI
I -NDB Ostia for Roma	58	lt,ppc via Fiumicino	321	`OST`	50	w	moI
I -NDB Vicenza	14	lt	325	`VIC`			moI
I -NDB Roma/Fiumicino	58	lt,ppc direct	345	`FW`	50	w	moI
I -NDB Roma/Fiumicino	58	lt,ppc direct	354	`FE`	50	w	moI
I -NDB Carbonara	35	ppc via Cagliari I	402	`CAR`	100	w	moI
I -NDB Roma/Fiumicino	58	lt,ppc direct	421	`FN`	50	w	moI
I -NDB Ferrara	47	lt,ppc	427	`FER`	100	w	moI
IW -FGS Kormoran	22	ppc,lt,sti	3116	DRCD			ai47
LVA NDB Riga/Skulte	16	ppc,Xmas cd after f/up	434	`A`	250	w	mo76
LVA-NDB Liepaya	16	ppc via LGS Riga f/up	328	`UB`	300	w	mo76
RUS-MOSCOW R.	301	cd,ppc,business cd	6327,5	UAT	15	kw	mo76
SVK-NDB Dubove	38	ppc via Bratislava	310	`DBV`	100	w	moAUT
SVK-NDB Piestany	38	ppc via Bratislava	297	`C`	100	w	moAUT

## Membership and Money corner:

Membership fee received from fd40 (tnx for your donation, dear Friedhelm!) and hs61. TNX! Due to renew for fmI.

Gentlemen, may I remember you on dmRU's request for a second-hand receiver in EUNL 1-98? would be very nice if someone can help. TNX!

## Addresses/Infos/Veri-signers:

Chennai Aero is same as Madras Aero (lrG)

Solved NDB Unids by tgG,zeTC,mo76: (cf. EUNL 11-97, 12-97, 1-98, 2-98)  
Many TNX!

285	DU	Tokol/HNG	287	WG	Samara/RUS	323	TU	Aktyubinsk/KAZ
325	JOE	Joensuu/FIN	330a	PM	Pechora/RUS	330	PM	Pechora/RUS
341	NKS	Karlstad/S	350	NZ	Nyazepetrovsk/RUS	365	VS	Vesilanti/FNL
380	CBL	Campelton/G						
420	LGS	Conoco Loggs PA/IW ex	LGS-328,5			564	OK	Lyskovo/RUS
579	TH	Takhtalym/RUS	610	PZ	Petrozavodsk/RUS	on 611 khz		
615	OL	Ishim/RUS	696	BT	Alatyr/RUS	732	QO	Aksinyino/RUS
825	YK	Buinsk/RUS	825	KE	Kiev/Borispol/UKR			
825	MH	Mikhaylovsk/RUS	995	DW	Nikolskoye/RUS	1046	UR	vologda/RUS

Two corrections cf. EUNL 2-98: 270 FLO Flores : ITU is AZR (not NOR)  
404 HR Heather: QRG is 330 (not 404) sry, ed.

NDB Karlsruhe/KBA: Baden Airport GmbH, Flughafen Karlsruhe/Baden-Baden, 77836 Rheinmuenster (mo76)

NDB Zweibruecken/ZBN: Flugplatz Zweibruecken GmbH, Flugplatz Geb. 391, 66482 Zweibruecken (mo76)

NDB Tallinn/LK/L: Lennuliiklusteeninduse Keskus, Estonian Air Navigation Services, Lennujaama 2, EE-0011 Tallinn, Estonia (mo76)

NDB La Rochelle/Laleu/RL: DAC/SO, Aerodrome de La Rochelle, Tour de Controle, F-17000 La Rochelle (mo76)

NDB Figari/Sud Corse/FA: Direction de l'Aviation Civile Sud-Est, Aerodrome de Figari Sud Corse, F-20114 Figari (mo76)

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NDB Rennes/St. Jacques/RS: District Aeronautique Bretagne, Aerodrome de Rennes St. Jacques, B. P. 9149, F-35091 Rennes Cedex 9 (mo76)  
NDB Calvi/St. Catherine/CV: Direction de l'Aviation Civile Sud-Est, Aerodrome de Calvi Sainte-Catherine, F-20260 Calvi (mo76)  
NDB Marseille/OB: Division Technique DGAC, Section RNAV, Aeroport Marseille Provence, B.P.1, F-13727 Marignane cedex (mo76)  
NDB Lappeenranta/RAN: Lappeenrannan Lentoasema, 53600 Lappeenranta (mo76)  
NDB Padova/PDV: Ente Nazionale di Assistenza al Volo, Centro Regionale Assistenza Volo, Via A. Diaz n 63, I-35031 Abano Terme (Padova) (mo76)  
NDB Roma/Fiumicino/FW/FE/FN/OST: Ente Nazionale di Assistenza al Volo (ENAV), Centro A. V. Fiumicino, Via G. Chavez, s.n.c., I-00050 Aeroporto Fiumicino  
NDB Ferrara/FER: ENAV, Via A. Diaz, 63, I-..... Abano-Terme (PD) (mo76)  
LVA NDB Riga/Skulte/A/UB: Latvijas Gaisa Satiksme (LGS), Latvian Air Navigation Service Enterprise, LV-1053, International Airport `Riga`, Riga, Latvia (mo76)  
Moscow R./UAT: Morflot, 1/4 Rozhdestvenka, Moscow, 103759 Russia (mo76)  
Kinloss Rescue: SAR COMMS, ARCC Kinloss, RAF Kinloss, Forres, Morayshire, IV36 0OU, Scotland, UK (v/s= Graham Topping, Radio Officer) (pt53)  
Juncao R./PPJ: EMBRATEL S.A., Rua Otacilio Charao No 199, Juncao, Rio Grande R.S. (v/s= Egas Schwochow) (lrg)  
Placentia R./VCP: P.O. Box 389, Placentia, NF A0B 1S0 (lrg)  
FALCON Bahrain: v/s= Ahmed Hussain, A/Section Radio Services (lrg)

Inquiries Department:

OM Lionel (lrg) asks for the current address of VIS-Sydney Radio. His report returned recently. Anyone?

#### NEW PUBLICATIONS:

\* Fresh from the bookshelf: EUNL-Bookstore proudly presents, the new `Spezial Frequenzliste 1998/1999` by Rainer Brannolte and Wolf Siebel (Siebel-verlag, Meckenheim; ISBN 3-89632-025-4) The 10th edition of this frequency guide is now available at bookshops in Germany. That's the right time to have a closer look at the contents. As usual it comes with the wellknown black cover and makes no difference between the previous editions. In the foreword the editors spend some words of gratitude to some folks of the UTDX-scene; those at WUN and that's great - good old EUNL. Following are interesting items on UTDX - legalisation, tips for novices, tips on the equipment (RX, antenna, decoder), Internet-links to UTDX-sites and info on the facilities of UTDX. For novices we have `111 Tips on DX`, the most easy stations to hear, beginning with DCF77, on with HEP and Guardia Civil, up to Gander Volmet. Brannolte/Siebel take a closer look on MARS-net and longwaves and with a description of the list the major interest on this book begins at page 91. Around 13000 frequencies are logged and displayed between 9 kHz and 30 MHz, we can find detailed informations about aero bands, maritime bands (marks of Navtex on 518 kHz for example), fixed bands (now RUSny channelmarkers are listed, nice job!) and everything that is of interest on this or that station. This guide is clear, easy to read and also easy to use. You find info on QRG, callsign(s), station, emission-mode(s) and details about that (fax drumspeed, RTTY-modes etc.) and also linenumbers, targets, QSX frequencies. To me this is the best solution for European DXers to get a good overview on what to hear on our continent. No speculations or fantasies on some exotic signals as in other publications. Included is also a callsignlist with not only ITU-calls and after all a very comprehensive station-index with a lot of QSL-addresses. My tip: If you want good, reliable information on utility to hear in Europe Siebel's `Spezial Frequenzliste` is a standard you can not effort to miss! Price in Germany: DM 36.80 (that's fair!). For orders from outside Germany you may contact Siebel Verlag, Auf dem Steinbuechel 6, D-53340 Meckenheim, Germany for further informations. (Tnx to ti47 for this review!)

For NDB-Freaks: I received a nice message from Alan Gale/UK concerning the `DF Circle`:

THE DF CIRCLE:

The DF Circle is not a club as such, and doesn't belong to any particular organisation. Instead it's just a group of enthusiasts who are keen to try and identify some of the many unidentified radiobeacons that seem to regularly appear on the LF and MF bands. We welcome anyone who would like to try and help

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us in this project, either with direction finding, or just sharing known information about any of the beacons included in this list. The more people involved, the better chance we have of finding answers to some of these mysteries. If you can help in any way why not contact me for further details.

THE `DF CIRCLE` LIST OF UNIDENTIFIED RADIOBEACONS:  
The purpose of this list is to try and compile a database of `unidentified` radiobeacons from as many sources as possible. This list will eventually be circulated to all `Direction Finding Circle` members (or anyone else who may be interested!), with the intention of providing details of beacons which may be DF`ed using a Loop, or other directional aerial. Any bearings taken from your location can be sent to me (preferably with details of the geographical coordinates of your QTH), and I will then attempt to plot their position along with all the other information received. Any results from these observations will be circulated to anyone participating in this project.

If you receive any further `unids` which are not already included on this list, or you are able to take any bearings (however rough - just a general direction e.g. North/South!) this will be helpful too! If you have access to official aeronautical or maritime publications that may be on sale in your country, these may also provide us with answers that will be of benefit to everyone involved in the project too. If you can send the results of any of your searches or investigations to me at either the following e-mail or snail mail addresses, I will include the details in future versions of this list, for the benefit of all the participants.

E-mail: dfcircle@zen.co.uk  
or: 4 Waingap Crescent, Whitworth, Rochdale, Lancashire OL12 8PX, England.  
Alan Gale G4TMV February 1998

You can find Alan's February list at EUNL homepage for downloading in `zipped` Word format. Anyone who is interested, or would like to receive a paper-copy, should contact him and he will add you to list for future issues.

That`s it for the moment. Thanks to (9) contributors: mo76, wk08, lrG, ti47 (ti17 =Insel Usedom, ti26 = wilhelmshaven), zeTC, tgG, pt53, lrG, ai47

gd dx + 73`s

Andreas

EUROPEAN UTILITY NEWSLETTER 4-98

\*\*\*\*\*  
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\* Germany: 20 DM; Europe: 20 DM (13 \$); Overseas: 25 \$ or the equivalent in \*  
\* foreign currency - no cheques please!!) \*  
\* \*  
\* Deadline: 20th of the month!!! \*  
\*\*\*\*\*

Hi out there,  
with this early issue, EUNL starts into it`s second year. Many thanks to those who spend time and efforts to contribute.

N D B

265	2333	KAV	Kavran-Pula	HRV	id	zeTC
274	2349	SAL	Sal	CPV	id+dash	rk50
282	2344	LA	Lyneham	G	id	rk50

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303,5	2210	BJ	Bjoernsund Lt.	NOR	id+tone	zeTC
304	2252	ME	Punta della Maestra Lt.	I	id+tone	zeTC
318	0012	GEN	Genova	I	id	rk50
318a	0014	C	Unid	?	id	rk50
323	2355	UWP	Argentia Island, NF	CAN	id+dash	rk50
325	0024	OF	Bristol/Filton	G	id	rk50
326	2220	OG	Sandviken/Gaevle	S	id	zeTC
328	0008	HIG	San Sebastian	E	id	rk50
330	2317	LEN	Leon	E	id	rk50
333,5	2045	VOG	Voghera	I	id	zeTC
333a	2349	ZRA	Unid	?	id	rk50
335	2043	BL	Budapest-Ferihegy	HNG	id	zeTC
340	2320	KS	Kuusamo	FNL	id	rk50
341	2132	POR	Pori	FIN	id	zeTC
345	2040	BN	Birkeland	NOR	id	zeTC
356	0136	SU	Salzburg/Surheim	AUT	id	zeTC
357	0113	SME	Costa Smeralda	I	id	rk50
360,5	2134	MAK	Mackel	BEL	id+tone	zeTC
366a	2332	HH	Unid	?	id	rk50
368	2153	PAK	Pakka	FIN	id	zeTC
370	2340	PSA	Spessart	D	id	zeTC
371	2159	HAA	Stafsberg/Hamar	NOR	id	zeTC
373	2328	NW	Maastrich	HOL	id	zeTC
376a	2357	CLT	Unid	?	id	rk50
377	0450	KN	Norkoeping/Kunsangen	S	id	zeTC
378	2355	RSY	Stavanger/Rennesoey	NOR	id	zeTC
378	0001	OS	Sundsvall	S	id	zeTC
385,5	2317	KDN	Tunis	TUN	id	rk50
388,5	0006	CDF	Cardiff	G	id	rk50
389	2337	BV	La Palma	CNR	id	rk50
389	2336	HY	Skive	DNK	id	zeTC
391	2340	CC	Chalon-Chamforgueil	F	id+tone	zeTC
402	2226	ORW	Paris-Orly	F	id	zeTC
404	2350	LW	Luxembourg	LUX	id	zeTC
408	2353	M	Helsinki-Malmi	FIN	id	zeTC
410a	0045	GRN	Gerona ? on 412?	E	id	rk50
419	2256	HY	Vaasa	FIN	id	zeTC
421	0033	GE	Madrid/Getafe	E	id	rk50
421	0012	BUR	Burnham	G	id	rk50
423a	0030	CWL	Unid	?	id	rk50
518	0004	TM	Tomakovaka	UKR	id	zeTC
520	2220	LF	UNID	?	id (2x=1min)	dmRU
520	0026	BS	Budaoers	HNG	id	zeTC
523	0012	BK	Lunino	RUS	id	zeTC
523,5	0005	LK	Letiste Kolin	CZE	id+.	zeTC
525	0003	PL	St. Petersburg-Pulkovo	RUS	id	zeTC
525	0015	CH	Chernyakhov	UKR	id	zeTC
529	0024	SF	Sofia	BUL	id	zeTC
537	0020	R	Russe	BUL	id	zeTC
588	2218	SN	Simferopol	UKR	id	zeTC
600	2226	KR	Krasnoborka	UKR	id	dmRU
635	0008	GH	Minsk	BLR	id	zeTC

## F I X E D

2211,5	1759	FDE14	AF Contrexeville	F	vvv only	pt53
2743	2300	ULX	Mossad	ISR	AM Id ULX + 5LG	abNL
3150	1800	PCD	Mossad	ISR	AM Id PCD + 5LG	abNL
3235	2213	FDG5	AF Bordeaux-Merignac	F	cw-vvv	dmRU
3300,5	1813	FDI8	AF Nice	F	cw-vvv	pt53
3314	0249	HEP3	Interpol Zuerich	SUI	cw-vvv	pt53
3756,5	0048	?	The 'pip' UNID	?	cw-pip(for years still unid)	dmNL
3840	2245	?	Mossad	ISR	AM in progress 5LG	abNL
4077	1719	RMP	RUS Ny Kaliningrad	KAL	cw WX report	abNL
4360	2250	SYN	Mossad	ISR	AM Id SYN msgs:SYN26P15B38	abNL
4463	1730	FTJ	Mossad	ISR	AM Id FTJ Heavily jammed	abNL
4463	2245	?	Mossad	ISR	AM in progress 5LG	abNL
4482	2210	?	Russian Man ?	?	AM 638 638 638 2 (repeated	

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several times) 1723 34 + 5FG ended with 000 Language: Russian very loud abNL  
 4485 1355 ? Czech Lady CZE USB 555 555 555 313 313 313  
 05 (repeated a number of times) 42 05 over over 69026 (repeated) over//5027abNL  
 4516 2238 FDG AF Bordeaux F CW-vvv zeTC  
 4594 2230 GK Golf Kilo D USB YL/GG 5FG abNL  
 4880 2200 ULX Mossad ISR AM Id ULX + 5LG abNL  
 4999 0115 FDI22 AF Narbonne F CW-vvv zeTC  
 5010 2316 FDG5 AF Bordeaux-Merignac F CW-vvv zeTC  
 5091 2000 JSR Mossad ISR AM Id JSR + 5LG abNL  
 5245 1107 MRC28 RAF Cadets G USB MRC28,MRO16,MRC01,MRL46bNL  
 5245 1047 MRC01 RAF Cadets G USB MRH30,MRG43,MRA01,MRB01bNL  
 5266,5 1144 HEP5 Kantonspolizei Zuerich SUI CW-vvv abNL  
 5342 1732 FDY AF Orleans F CW-vvv abNL+zeTC  
 5391 1424 B80 Royal Navy exercise G USB w/COP abNL  
 5403 1407 ? RAF Buchan G USB w/E9I, r/c abNL  
 5446,5 1740 FDC AF Metz F CW VVV tape abNL  
 5450 1438 ? RAF Volmet G USB abNL  
 5505 1420 EIP Shannon Volmet IRL USB abNL  
 5622,5 1350 HEP5 Interpol Zuerich SUI CW-vvv pt53  
 5687 1422 DHM91 GAF Muenster D USB w/unid aircraft abNL  
 6486,9 1455 ? UNID ? VFT 75 VFT RTTY 75bd on6486,9,  
 6487,5, 6487,9 abNL  
 6560 2244 YDI UNID ? CW-vvv cq de ydi pt53  
 6716 1630 ? Nancy Adam Susan ? USB QRU msg abNL  
 6779 2153 DHJ59 Ny Wilhelmshaven D BAUDOT 75 w/unid vessel abNL  
 6840 1800 EZI Mossad ISR AM Id EZI1 abNL  
 6845 0940 FDC AF Metz F CW-vvv zeTC  
 6871 1505 HEP7 Kantonspolizei Zuerich SUI CW VVV tape pt53+abNL  
 6945 1500 ? UNID ? CW 62 62 33 33 966 + 5FG abNL  
 6959 2000 ? Lincolnshire Poacher CYP USB Id 14106+5FG//11545k abNL  
 6992,5 1042 MFJ04 RNY Sea Cadet Corps G USB/cw MFJ04,MFK62,MFP34 abNL  
 7039 1318 P RUS Ny Kaliningrad KAL CW-marker abNL  
 7039 1318 C Ny Moscow RUS CW-marker abNL  
 7039 1318 S Ny Arkhangelsk RUS CW-marker abNL  
 7337 2245 ? Lincolnshire poacher CYP USB the end of the tx abNL  
 7600 1500 ? Counting Station USA USB Id 345 + 5FG//10597k abNL  
 7834,5 1044 FDC AF Metz F CW-vvv zeTC  
 8052,5 1243 FDI8 AF Nice F CW-vvv pt53  
 8094,5 1035 FDY AF Orleans F CW-vvv pt53  
 9130 1600 EZI Mossad ISR USB Id EZI + 5LG//6840 khzabNL  
 9186 1354 HEP9 Interpol Zuerch SUI CW-vvv pt53  
 10352 1445 CIO Mossad ISR AM Id CIO2 abNL  
 10872 1313 P RUS Ny Kaliningrad KAL CW-marker abNL  
 10872 1313 C Ny Moscow RUS CW-marker abNL  
 11000 1300 07 Unid net (sounded American) USB Mob. stns 07,01,03 r/cabNL  
 11270 0820 ? Russian Man RUS AM Id 615 Msgs7694,1+7105,1bNL  
 11545 1500 ? Lincolnshire Poacher CYP USB Id 79727+5FG//13375 k abNL  
 11546 1600 ? Lincolnshire Poacher CYP USB Id14106+5FG//12603+13375NL  
 11570 1300 ? Cherry Ripe ? USB Id 02899 + 5FG abNL  
 13375 1700 ? Lincolnshire Poacher CYP USB Id 14106 + 5FG abNL  
 14487 1400 ? Lincolnshire Poacher CYP USB Id 28408 + 5FG//10426kabNL  
 14890 0800 ? Russian Man RUS AM Id 615 msgsg:64321 63071abNL

## M A R I T I M E

1635 1938 UNID ? USB,E, nav. warning pt53  
 1641 2234 OXJ Torshavn R. FAR USB,E,ID, wind warn.//1758pt53  
 1674 1940 SDJ Stockholm R. S USB,E/Sw.,gale-warn.//1710pt53  
 1677 1935 OFK Turku R. FIN USB,E, gale warning pt53  
 1692 2134 SPC Gdynia R. POL USB,E/Poln., mv, wx pt53  
 1692 2134 FFB Bologne-sur-Mer R. F USB,E/F, nav. warnings pt53  
 1698 2006 EAR La Coruna R. E USB,E, nav. warnings pt53  
 1704 1804 OXZ Lyngby R. DNK USB,E/Dan., nav. warning pt53  
 1707 1934 Machichaco R. E USB,E/S, tfc-list pt53  
 1710 1939 SDJ Stockholm R. S USB,E/Sw.,galewarning pt53  
 1734 1807 OXZ Lyngby R. DNK USB,E, wx pt53  
 1752 2240 EJK Valentia R. IRL USB,E, nav. warning pt53  
 1758 1805 OXZ Lyngby R. DNK USB,E, wx pt53

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1758	2235	OXJ	Torshavn R.	FAR	USB,FAR, windwarning//1641	pt53
1764	2206	GKR	Wick R.	G	USB,E, gale-warning	pt53
1770	1938	LGP	Bodoe R.	NOR	USB,E/norw., nav. warning	pt53
1792	1706	7TA	Algiers R.	ALG	USB,F, wx	pt53
1797	1938	SDJ	Stockholm R.	S	USB,Schw.,gale-warn.//1674	pt53
1869	2139	GKZ	Humber R.	G	USB,E, schedule	pt53
1883	2207	GPK	Portpatrick R.	G	USB,E, nav. warning	pt53
1911	1833	CNW	Tanger R.	MRC	USB,E, tfc	pt53
2182	1705	7TA	Alger R.	ALG	USB,E/F, QSY 1792	pt53
2182	1904	LZW	Varna R.	BUL	USB,E, QSY 3740	pt53
2182	1703	EAO	Palma R.	E	USB,E/S QSY 1755	pt53
2182	2303		Cross Corsen	F	USB,F, QSY	pt53
2182	1703		Cross Med	F	USB,F, QSY 1695	pt53
2182	2235	OXJ	Torshavn R.	FAR	USB,FAR, windwarning//1641	pt53
2182	1934		Turku R.	FNL	USB,E, QSY	pt53
2182	2020		Aberdeen CG	G	USB,E, QSY 2226	pt53
2182	2239	EJK	Valentia R.	IRL	USB,E, QSY 1752	pt53
2182	2335	CTN37	R. Navao Apulia	POR	USB,P/E, ID, QSY	pt53
2182	2005	CTN	tent. R. Navao Leixoes	POR	USB,P, ID, QSY 2657	pt53
2182	2207	CUL	Lisboa R.	POR	USB,E/P, ID QSY 2693,4393	pt53
2182	1932	YQI	Constanta R.	ROU	USB,E, ID by YL, QSY 2748	pt53
2226	2021		Aberdeen CG	G	USB,E, wx forecast	pt53
2635	2037	LFO	Orlandet R.	NOR	USB,E/norw.,fv,gale-warn.	pt53
2643,5	0242	SPS	Witowo R.	POL	cw-de sps/tor k	pt53
2657	2112		Radionaval Santo/Santos?	P	P wx	hb31
2657	2004	CTN	tent. R. Navao Leixoes	POR	USB,P,IDs, wx for Portugal	pt53
2657	2334	CTN37	R. Navao Apulia	POR	USB,E/P, nav. warnings	pt53
2670	2238	GLD	Landis End R.	G	USB,E, nav. warning	pt53
2722	1636	ICB	Genova R.	I	USB,I, gale-warning	pt53
2761	0304	OSU	Oostende R.	BEL	USB,E/Dutch, nav. warn.	pt53
2782	2014	GLD	Landis End R.	G	USB,E, w/ vessel Montalvo	pt53
2820	2355	EAL	Las Palmas R.	E	USB,Sp, phone-patch	pt53
2829,5	1906	SPB28	Szczecin R.	POL	cw,SITOR-A, tx-schedule	pt53
2841	0045	EBA	Madrid R.	E	cw-marker	abNL
3615,7	2158	GKY1	Portishead R.	G	cw,gky 1 + SITOR	pt53
3740	1905	LZW	Varna R.	BUL	USB,E, wx	pt53
3795	2135	FFB	Bologne-sur-Mer R.	F	USB,E/F, nav. warn.//1692	pt53
3795	1820	FFM	Marseille R.	F	FF phone patch to Dakar	zeTC
4210,5	1433	ESA	Tallinn R.	EST	cw,de esa + SITOR	pt53
4210,5	1956	IAR	Rome R.	I	cw,iar + SITOR	pt53
4211	1959	GKE2	Portishead R.	G	cw,gke 2 + SITOR	pt53
4211,5	1434	USU	Mariupul R.	UKR	cw,usu + SITOR	pt53
4211,5	2000	SPA21	Gdynia R.	POL	cw,spa + SITOR	pt53
4213	2003	LGW3	Rogaland R.	NOR	cw,lgbtlx + SITOR	pt53
4215	2005	IAR	Rom R.	I	cw,iar + SITOR	pt53
4215,5	1436	OXZ	Lyngby R.	DNK	cw,oxz + SITOR	pt53
4215,5	1436	HEC24	Bern R.	SUI	cw,hec + SITOR	pt53
4216	2014	SVT	Athen R.	GRC	cw,de svt	pt53
4216,5	2014	IAR	Rom R.	I	cw,iar + SITOR	pt53
4217	2015	PCH	Scheveningen R.	HOL	cw,pch + SITOR	pt53
4218	2016	OST28	Ostende R.	BEL	cw,ost + SITOR	pt53
4218,5	2017	LZW	Varna R.	BUL	cw,de lzw	pt53
4219	2232	A9M	Bahrein R.	BHR	cw,a9m + SITOR	pt53
4219	2231	TAH	Istanbul R.	TUR	cw,tah + SITOR	pt53
4219	2233		UNID	?	cw,very weak, 9GP?	pt53
4219,5	2018	IAR	Rom R.	I	cw,iar + SITOR	pt53
4222	2020	XSN	Ningbo R.	CHN	cw-cq	pt53
4227	2025		UNID	?	cw,very weak	pt53
4228,5	2027	VIM	Melbourne R.	AUS	cw-cq	pt53
4231	2027	A7D	Doha R.	QAT	cw-de a7d	pt53
4235	2028	IAR	Rom R.	I	cw-vvv	pt53
4238	2029	VTP4	Ny Vishakapatnam	IND	cw-vvv de vtp4/5/6	pt53
4239,4	2031	SVB2	Athens R.	GRC	cw-de svb 2/3/4/5 qsx	pt53
4241	1432	LGW	Rogaland R.	NOR	cw-cq de lgw lgb lgj lgx	pt53
4241,1	2032	4XZ	Ny Haifa	ISR	cw-vvv msgs	pt53
4253	2238	TAH	Istanbul R.	TUR	cw-cq de tah	pt53
4259	2221	SAB	Goeteborg R.	S	cw,sab + SITOR	pt53
4260	2040	TBA2	Ny Ankara	TUR	cw-vvv tbdj de tba 2/4	pt53

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4265	2041	USU	Mariupol R.	UKR	cw,msgs	pt53
4271	0632	OFJ	Helsinki R.	FIN	cw-OFJ	pt53+dmRU
4273	2240	SAA	Karlskrona R.	S	cw-cq	pt53
4274	2042	GKB2	Portishead R.	G	cw-de gkb	pt53
4275	2043	TBA5	Ny Ankara	TUR	cw-vvv tbdj de tba 5/7qap	pt53
4283	2209	XSV	Tianjin R.	CHN	cw-cq	pt53
4292	2050	IAR24	Roma R.	I	cw,msgs	pt53
4294	2054	SXA34	Ny Spata Attikis	GRC	cw-vvv	pt53
4302	2020	A9M	Bahrain R.	BHR	cw-cq(QRM OXZ on4303)	pt53+dmRU
4339	2150	LFI	Rogaland R.	NOR	cw-id + sitor	zeTC
4349	2158	UCE5	Arkhangelsk R.	RUS	cw-de uce5	zeTC
4363	2304	WOM	Miami R. FL	USA	USB,E, tfc-list, wx	pt53
4369	1710	EQM	Busher R.	IRN	FAR R/T tfc,id, pp	zeTC
4390	2128		Kaliningrad	KAL	RR, YL-Tape id	zeTC
4393	2208	CUL	Lisboa R.	POR	USB,P, mv, tfc	pt53
4398	1728	YQI	Constanta R.	ROU	USB w/unid vessel	abNL
6224	0824	OMC	Bratislava R.	SVK	EE, wkg LZLP	zeTC
6316	0111	NMN	USCG Camslant	USA	cw,nmn + SITOR	pt53
6318	1843	LGU2	Rogaland R.	NOR	cw,lgb tlx + SITOR	pt53
6319	1847	UAT	Moscow R.	RUS	cw-de uat + SITOR	pt53
6320,5	1850	9VG76	Singapore R.	SNG	cw,9VG + SITOR	pt53
6321,5	1848	SVU3	Athens R.	GRC	cw-de svu	pt53
6322	1852	OST	Ostende R.	BEL	cw,ost + SITOR	pt53
6322	0047	ZSC	Capetown R.	AFS	cw-id + sitor	zeTC
6326,5	1902	USU	Mariupol R.	UKR	cw,usu + SITOR	pt53
6327,5	1903	UAT	Moskau R.	RUS	cw-de uat + SITOR	pt53
6329,5	1909	VCT	Tors Cove R.	CAN	cw,vct + SITOR	pt53
6330,1	1908	LZW	Varna R.	BUL	cw-de lzw lzw	pt53
6330,5	0042	8PO	Barbados R.	BRB	cw-id + sitor	pt53+zeTC
6339,8	1737	ZLO	Ny Irirangi	NZL	cw-de zlo	pt53
6344	1914	SVB3	Athen R.	GRC	cw-de svb 4/5/6/7	pt53
6355	1934	USU	Mariupol R.	UKR	cw,msgs, ID	pt53
6357	1823	SAA	Karlskrona R.	S	cw-cq	pt53
6379	1937	4XZ	Ny Haifa	ISR	cw-vvv	pt53
6382	1940	TBA6	Ny Ankara	TUR	cw-vvv tbdj de tba 6	dmRU+pt53
6389	2219	CTP	Ny Oeiras	POR	cw-de	pt53+dmRU
6391	1745	AQP4	Ny Karachi	PAK	cw-vvv de aqp 2/4/5/6	pt53
6415	2118	7TF4	Boufarik R.	ALG	cw-cq, long qsx list	dmRU
6473,5	0903	YQI	Constanta R.	ROU	cw-cq	zeTC
6493,5	2206	LYL	Klaipeda R.	LTU	cw Nav wngs	abNL
6502	2202	TBB6	Ny Ankara	TUR	cw TBJ de TBB6	abNL
8419,5	0430	PPR	Rio de Janeiro R.	B	cw-id + SITOR	zeTC+pt53+dmRU
8420,5	2119	HEC18	Bern R.	SUI	cw,hec + SITOR	pt53
8420,5	2120	9VG78	Singapore R.	SNG	cw,9VG + SITOR	pt53
8421	2121	OXZ	Lyngby R.	DNK	cw,oxz + SITOR	pt53
8421	1720	A7D	Doha R.	QAT	cw-id + sitor	zeTC
8422	2139	ESA	Tallinn R.	EST	cw-de esa + SITOR	pt53
8431	1715	XSG	Shanghai R.	CHN	cw,xsg + SITOR	pt53
8431	1714	TAH	Istanbul R.	TUR	cw,tah + SITOR	pt53
8431,5	1716	UAT	Moskau R.	RUS	cw-de uat + SITOR	pt53
8435,5	2149	LPD	General Pacheco R.	ARG	cw-id + sitor	zeTC
8448	2323	A9M	Bahrain R.	BHR	cw-cq	dmRU
8450	1626	5AB	Benghazi R.	LYB	cw-cq (first CQ like RQ)	dmRU
8457	0626	OFJ	Helsinki R.	FIN	cw-OFJ	pt53+dmRU
8472	0024	WLO	Mobile R.	USA	cw-de wlo	pt53
8495	1315	C	Ny Moscow	RUS	cw-marker	abNL
8495	1315	P	RUS Ny Kaliningrad	KAL	cw-marker	abNL
8515	0259	5AT	Tripoli R.	LYB	cw-vvv + cq	pt53
8522	0300	CBV	Playa Ancha R.	CHL	cw-vvv	pt53
8565	1655	D3E51	Luanda R.	AGL	cw-cq de d3e51/62	pt53
8570	0026	WNU	Slidell R.	USA	cw-cq de wnu 43	pt53
8571	1651	JNA	Tokio CG	J	cw-cq	pt53
8578,5	0257	SUH	Alexandria R.	EGY	cw-cq	pt53
8589	0015	HPP	Panama R.	PNR	cw-vvv cq	pt53
8604,5	1448	DZJ	Bulacan R.	PHL	cw-cq	pt53
8646	2242	VTP	Ny Vishakapatnam	IND	cw-vvv (QRM LPD86)	dmRU
8646	2245	LPD86	General Pacheco R.	ARG	cw-vvv (QRM VTP)	dmRU
8665	2124	XSG	Shanghai R.	CHN	cw-cq, pls up 373	dmRU



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8682	2058	EAD3	Madrid R.	E	cw-de ead2/ead3 qsx	pt53
8683,5	2120	LFI	Rogaland R.	NOR	cw-id + SITOR	dmRU
8700	2233	9AR	Rijeka R.	HRV	cw-vvv	dmRU
8706	1635	JOS	Nagasaki R.	J	cw-cq de jos qsx 8 mhz k	zeTC
8719	2306	A9M	Bahrain R.	BHR	EE OM-wkg HZLY	zeTC
8722	2306	WOM	Miami R.,FL	USA	USB,E, wx	pt53
8722	2151	CUL	Lisboa R.	POR	PP wkg tfc, id	zeTC
8725	1636		UNID (Seoul R.?)	?	melody marker	zeTC
8725	1826	ZSC	Capetown R.	AFS	cw-de zsc	zeTC
8725	1828	EHY	Madrid R.	E	cw-de ehy	zeTC
8725	1843	LYL	Klaipeda R.	LTU	RR R/T tfc,YL-id	zeTC
8731	1913	4XO	Haifa R.	ISR	E,OM `This is Haifa R.`	zeTC
8731	1915	HCG	Guayaquil R.	EQA	SS, R/T tfc, w/`AKYTA`	zeTC
8740	1620	HZG	Damman R.	ARS	AA R/T tfc,OM clg +id	zeTC
8740	1631		PETROMIN Constanta	ROU	EE id + clg ships	zeTC
8743	2030	HSW	Bangkok Meteo R.	THA	E, melody marker,id,wx	zeTC
8743	2158	TFA	Reykjavik R.	ISL	Isl. wkg,tfc,id	zeTC
8764	2233	NMN	USCG Chesapeake,FL	USA	EE,wx,id	zeTC
8773	2217	PPR	Rio R.	B	PP R/T tfc,OM-id	zeTC
8803	1859	EQN	Bandar Khomeini R.	IRN	FAR, R/T tfc, OM-id	zeTC
8806	2210	PPR	Rio R.	B	PP R/T tfc, id	zeTC
8806	1654	3CA	Monaco R.	MCO	EE clg ELTF5	zeTC
10046	1732	4XZ	Ny Haifa	ISR	cw,ID, msgs	pt53
12580	1555	ZLA	Awanui R.	NZL	cw-id + sitor	zeTC
12582	1608	VIP	Perth R.	AUS	cw-id + sitor	pt53+zeTC
12583,5	0823	CBV	Playa Ancha R.	CHL	cw-id + sitor	zeTC
12584	1717	VIP76	Perth R.	AUS	cw,vip + SITOR	pt53
12585,5	1610	VRX	Hongkong R.	CHN	cw-id + sitor	zeTC
12610,5	2020	VCT	Tors Cove R.	CAN	cw-id + sitor	zeTC
12613	0845	XSQ	Guangshou R.	CHN	cw-id + sitor	zeTC
12618,5	2025	VCT	Tors Cove R.	CAN	cw-id + sitor	zeTC
12649,5	0850	XSG	Shanghai R.	CHN	cw-id + sitor	zeTC
12654	1228	TAH	Istanbul R.	TUR	cw,tah + SITOR	pt53
12668	1633	A9M	Bahrain R.	BHR	cw-id + sitor	zeTC
12678	1223	LFI	Rogaland R.	NOR	cw,lfi + SITOR	pt53
12695	1852	XSX	Keelung R.	TWN	cw-cq	pt53
12695,5	1712	KFS	Palo Alto R.	USA	cw-cq	pt53
12697	1219	USU	Mariupul R.	UKR	cw,msgs, ID	pt53
12699	0005	HPP	INTELMAR Panama	PNR	cw-cq + vvv	pt53
12700	1422	XSQ	Guangzhou R.	CHN	cw-cq	pt53
12709	1425	A9M	Bahrain R.	BHR	cw-cq	pt53
12720	1130	ZLO	Ny Irirangi	NZL	cw-de zlo zay a1a4 8 12zni	pt53
12721	1213	SPH61	Gdynia R.	POL	cw-de sph 61/81	pt53
12727,5	1048	LGJ	Rogaland R.	NOR	cw-cq de lgw lgb lgj lgw	pt53
12729	1100	UVA	Gelendzhik R.	RUS	cw-cq	pt53
12748	1204	IRM	Roma Medico R.	I	cw-marker	
abNL						
12799,5	1153	PCH51	Scheveningen R.	HOL	cw-de pch 51 12 k	pt53
16807	1415	9VG82	Singapore R.	SNG	cw,9VG + SITOR	pt53
16808	1412	SPA85	Gdynia R.	POL	cw,spa + SITOR	pt53
16809,5	1025	EAD	Madrid R.	E	cw-marker	abNL
16809,5	1346	VIP	Perth R.	AUS	cw-id + sitor	pt53+zeTC
16813	1417	UAT	Moskau R.	RUS	cw-de uat + SITOR	pt53
16816,5	1711	NMC	USCG San Francisco,CA	USA	cw-id + sitor	zeTC
16817,5	1713	KPH	San Francisco R.,CA	USA	cw-id + sitor	zeTC
16836	0948	UFL	Vladivostok R.	RUS	cw-id + sitor	zeTC
16838,5	1355	9AR	Rijeka R.	HRV	cw-id + sitor	zeTC
16839	1356	UFN	Novorossiysk R.	RUS	cw-id + sitor	zeTC
16911,2	0637	JNA	JMSA Tokyo	J	cw-cq	dmRU
16912	0634	SUH	Alexandria R.	EGY	cw-cq (not on 16912.5 as in SFL!!!)	dmRU
16966	1658	SVB6	Athens R.	GRC	cw-cq QSX	abNL
16974	1657	SPE81	Szcecin R.	POL	cw-marker	abNL
16986	1700	CTP	NATO Oeiras	POR	cw-marker	pt53+abNL
17013	1010	5BA	Nicosia R.	CYP	cw-vvv	abNL
17020	1654	UDK	Murmansk R.	RUS	cw w/unid vessel	abNL
17021,6	1651	TAH	Istanbul R.	TUR	cw-marker	abNL
17050,1	1335	4XZ	Ny Haifa	ISR	cw-vvv	pt53

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17050,4	0644	ASK	Karachi R.	PAK	cw-de	pt53+dmRU
17064	1648	SPH83	Gdynia R.	POL	cw-marker	abNL
17066,5	1648	A9M	Hamala R.	BHR	cw-marker	abNL
17074	1340	LGX	Rogaland R.	NOR	cw-cq de lgw lgb lgj lgw	pt53
17094,8	1116	SVA6	Athen R.	GRC	cw-de sva 6	pt53+abNL
17113	1441	GKB6	Portishead R.	G	cw-de gkb	pt53
17117,6	1447	WNU	Slidell R.	USA	cw-cq de wnu 4	pt53
17141	1705	UFN	Novorossiysk R.	RUS	cw-marker	pt53+abNL
17147	1455	URL	Sevastopol R.	UKR	cw-de url 16669.5/22285.5	pt53
17148	1248	LZW72	Varna R.	BUL	cw-de lzw 72	pt53
17161,3	1359	VIP5	Perth R.	AUS	cw-cq msgs, off	pt53
17165	1246	CLA	Havana R.	CUB	cw-cq	pt53
17169	1318	A9M	Bahrain R.	BHR	cw-cq	pt53
17172,4	1618	9MG11	Georgetown R.	MLA	cw-cq	abNL
17173,5	1452	WLO	Mobile R.	USA	cw-de wlo obs qsx	pt53
17175,2	1614	A9M	Hamala R.	BHR	cw-cq	pt53+abNL
17184,8	1240	PKE	Ambon R.	INS	cw-cq	pt53
17184,8	1629	KFS	Palo Alto R.	USA	cw-cq	abNL+pt53
17188	1243	SVD6	Athens R.	GRC	cw-de svd 6	pt53
17198,9	1242	PCH	Scheveningen R.	HOL	cw-de pch	pt53
17231,4	1734	CWA	Cerrito R.	URG	cw-cq	pt53
17239,7	1429	PKX	Jakarta R.	INS	cw-cq	pt53
17404	1610	SVN62	Athens R.	GRC	USB Voice mirror	abNL
19699	1439	UFN	Novorrossisk R.	RUS	cw,ufn + SITOR	pt53
19706	1306	LSD836	Argentina R.	ARG	cw-id + sitor	zeTC
19723	1004	RKLM	Arkhangelsk R.	RUS	cw-4ly de RKLM QSX	abNL+zeTC

## A E R O

2941	2216		Moscow Volmet	RUS	USB wx for Magadan	abNL+ti17
3413	2241		Shannon Volmet	IRL	USB, wx	pt53
4645	2129		Tallinn ATIS Volmet	EST	usb-wx	abNL+zeTC+dmRU
4675	1807		Reykjavik Aero	ISL	USB,wkg United	pt53
4730	1408	MKL	RAF Pitreavie	G	cw NUCO-groups, wx	ti26
5450	1502		RAF Volmet	G	USB,Volmet, ID	pt53
5493	2318		N`djamena Aero	TCD	USB,wkg Speedbird 56	pt53
5517	0004		Cairo Aero	EGY	USB,wkg Mauritius 034	pt53
5517	2305		Addis Ababa Aero	ETH	USB,wkg Condor 31	pt53
5517	2321		Tripolis Aero	LBY	USB,wkg Air France 3865	pt53
5517	2300		Khartoum Aero	SDN	USB,wkg Air France 3839	pt53
5517	1805	TR-KHC	Govmt of Gabon	AIR	USB wkg Khartoum FL370	ibG
5517	2228	ODC-5503	UNID	AIR	USB wkg Khartoum FL330	ibG
5517	2145	TAR-7269	Tunis Air	AIR	USB wkg Cairo	ibG
5517	2207	EPC-103	Espace Aviation	AIR	USB wkg Khartoum	ibG
5517	1750	APV-645	Air Plan Zaire	AIR	USB wkg Khartoum FL240	ibG
5517	2152	JEK-342	Jet Link 2152	AIR	USB wkg Addis Ababa FL390	ibG
5529	2301		Iberia Madrid	E	USB w/unid Iberia a/cpt	53+abNL
5535	0003		Speedbird London	G	USB,wkg Speedbird 664	pt53
5538	0003		Gulf Air	BHR	USB,wkg UNID a/c	pt53
5541	2322	SDJ	Stockholm R.	S	USB,wkg ASG7005	pt53
5550	2244		New York Aero	USA	USB,wkg Speedbird	pt53
5565	0010		Sal Aero	CPV	USB,wkg Liberia 6822	pt53
5589	0005		El Al	ISR	USB,hebr,wkg UNID a/c	pt53
5598	2254		New York Aero	USA	USB,wkg Galion 758	pt53
5598	0218		Santa Maria Aero	AZR	USB,wkg AlItalia	pt53
5637	0000	YRA	Bucuresti Aero	ROU	USB,E/Rou,wkg UNID	pt53
5658	2253		Mumbai Aero	IND	USB,wkg Jordanian 181	pt53
5658	1735		UNID a/c	AIR	USB,clg Lahore for pos.	pt53
5658	2332		Karachi Aero	PAK	USB,wkg Speedbird 1715	pt53
5658	2009	VT-EPY	Govmt of India / VIP	AIR	USB wkg Delhi	ibG
5667	2315		Bahrain Aero	BHR	USB,clg 47,37	pt53
5670	2255		Chennai Aero	IND	USB,wkg Lauda Air	pt53
5670	2227		Nagpur Aero	IND	USB,wkg UNID	pt53
5680	1042		Shannwick Aero	IRL	USB clg Plymouth Res. r/c	ti26
5680	1304		Tingstaede Rescue	S	USB clg RIGA RESCUE r/c	ti47
5680	1311		Sweden Air Rescue Visby	S	USB wkg undi, RSAF? RSny?	ti47
5680	1050		Kinloss Rescue	G	USB,clg Rescue 177	pt53
5708	1437		unid FAF	F	USB wkg unid flight?	ti26

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5714	1132	ARCHITECT	RAF Upavon	G	USB	Celebrity broadcast	abNL
6526	2120		Bern R.	SUI	USB,I,	wkg GGGM	pt53
6535	2351		Dakar Aero	SEN	USB,wkg	LH 5602	pt53
6535	2352		Ascot 3201	AIR	USB,clg	Dakar, no joy	pt53
6535	0835		Casablanca Aero	MRC	USB wkg	Canarias w/ r/chk	ibG
6556	1708		Manderin 01	AIR	USB wkg	Ujung Pandang	ibG
6577	0013		New York Aero	USA	USB,wkg	American 732	pt53
6586	2327		New York Aero	USA	USB,wkg	Lufthansa 463	pt53
6586	2143	5N-AYA	UNID	AIR	USB wkg	Niamey	ibG
6604	2358		Gander Volmet	CAN	USB		abNL
6604	0000		New York Volmet	USA	USB		pt53+abNL
6617	2353		Kiev Volmet	UKR	USB		abNL
6617	2355		Rostov Volmet	RUS	USB		abNL
6628	0046		New York Aero	USA	USB,wkg	Caledonian 78	pt53
6628	0041	CSY	Santa Maria Aero	AZR	USB,wkg	Condor 187	pt53
6649	2220		Panama Aero	PNR	USB,Sp ,	clg Merida Aero	pt53
6673	2348		Ascot 3201	AIR	USB,clg	Dakar, no joy	pt53
6676	1920		Singapore Volmet	SNG	EE,OM-wx,id		zeTC
6676	2247		Karachi Volmet	PAK	USB,Volmet		pt53
6676	2110		Bangkok Volmet	THA	USB,ID,	Volmet	zeTC+pt53
6676	1931		Sydney Volmet	AUS	EE,OM-wx,id		zeTC
6679	1915		Hongkong Volmet	CHN	EE,OM-wx,id		zeTC
6693	1353		Tyumen Volmet	RUS	USB wkg	wx, very weak sig.	ti17
6693	1439		Jekaterinburg Volmet	RUS	USB wkg	wx for SAMARA	ti26
6715	1024	BT9P	RAF Finningley(now Cranwell,	ed) G	USB clg	CWL-combineti17	
6715	1056	CWL97	RAF-flight	AIR	USB clg	BT9P, no luck	ti17
6727	1122	U6B	GNY Breguet Atlantic	AIR	USB wkg	DHJ59 RTTY-test	ti26
6727	1301	DHJ59	GNY wilhelmshaven	D	USB clg	JWT for r/c,no joy	ti26
6727	1311	Y3G	GNY Breguet Atlantic	AIR	USB clg	JWT, r/c, to RTTY	ti26
6727	1333	JWT	Ny Stavanger	NOR	USB clg	DHJ59,r/c,op-chatt	ti26
6727	1339	CHARLY	unid USAF	?	USB clg	UO2TLK msg follow	ti17
6730	1344		Karaganda volmet	KAZ	USB wkg	wx for Tblisi (??)	ti17
6730	1449		Almaty volmet	KAZ	USB	passed exactly the end	ti26
6730	1450		Tashkent volmet	UZB	USB,id,wx	MINERALNJEVODY	ti26
6733	0954	M7I	INy-flight	AIR	USB clg	IDR for svc-tfc	ti17
6733	1414		unid	?	USB rep.	12345 54321 test	ti26
6733	1504	D2H	INy-flight	AIR	USB IDR,r/c,qsy	ARCN322!	ti26
6738	2044	ASCOTT5464	RAF Flight	AIR	USB clg	INCIRLIK, no luck	ti26
6739	1459	ARCHITECT	RAF Upavon	G	USB wkg	wx, forecast	ti26
6739	2053	AJO	USAF Incirlik	TUR	USB clg	JVFFAL msg follow	ti26
6739	2135	CUW	USAF Lajes	AZR	USB clg	JVXWUI msg follow	ti26
6748	0956	OSCAR	unid FAF	F	wkg unid	flight,QPSK-msgs?	ti17
6757	0401	MKL	RAF Pitreavie	G	cw clg	N9F,17 NUCO grps	ti26
8861	2340		Recife Aero	B	USB,wkg	Selcall BDEG	pt53
8861	2338		Canarias Aero	CNR	USB,wkg	Sal Aero	pt53
8861	2346		Ascot 3201	AIR	USB,clg	Dakar, no joy	pt53
8861	2027	C5-FBS	UNID	AIR	USB wkg	Dakar	ibG
8861	0734	TZ-ASM	SOTA	AIR	USB wkg	Bamako	ibG
8861	1222	5N-FGE	Govmt of Nigeria / VIP	AIR	USB wkg	Canarias	ibG
8861	1523	FPG-338	ALG Aeroleasing	AIR	USB wkg	Sal	ibG
8861	1704	UR-76437	Khors Air??	AIR	USB wkg	Abidjan a/c = IL-76	ibG
8861	2203	LWA-322	Liberia world	AIR	USB wkg	Recife DH-BE	ibG
8861	1726	CN-ANR	Moroccan AirForce/VIP	AIR	USB wkg	Dakar	ibG
8861	1733	F-GROI	UNID FAF??	AIR	USB wkg	Dakar to Nouakchott	ibG
8861	0737	FFR-3601	Fischer Air	AIR	USB wkg	Canarias	ibG
8861	1749	PH-DMB	Denim Air	AIR	USB wkg	Dakar	ibG
in 1997	this	a/c was	involved in the Paris to Dakar Rally & carried journalists				
8861	2028	KJA-117	Avistar	AIR	USB Clg	Sal,+ wkg Recife	ibG
8861	2034	GTS-9002	GATS Air	AIR	USB wkg	Bamako	ibG
8861	1747	5N-BVU	UNID	AIR	USB wkg	Dakar FL310	ibG
8861	1652	MDE-102	Mauritanienne de Transport Aerien	AIR	USB wkg	Dakar	ibG
8861	1515		Indair-273	AIR	USB wkg	Calcutta FL280	ibG
8861	1556	VT-EAU	Eastern Airways	AIR	USB wkg	Calcutta FL330	ibG
8888	2036		Luanda Aero	AGL	USB,wkg	Speedbird, QSY	pt53
8888	2006		Koletsovo Meteo	RUS	RR,YL-wx,id		zeTC
8891	1806		Iceland Aero	ISL	USB,wkg	Air France 084	pt53
8894	0851		Bechar Aero	ALG	F wkg	Alger	hb31
8894	0935		Adrar Aero	ALG	F wkg	Alger	hb31

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8894	0110	Niamey Aero	NGR	USB,F,wkg	Air France	pt53
8894	0147	Algier Aero	ALG	USB,wgk	LH 597	pt53
8894	0719	XT-FZP Air Burkina	AIR	USB wkg	Niamey	ibG
8894	2230	LX-MMB Bouyges Transport	AIR	USB wkg	Niamey	ibG
8894	0726	Ain el Bey Aero	ALG	USB wkg	Algiers	ibG
8894	0745	Touggourt Aero	ALG	USB wkg	Algiers	ibG
8903	2038	Luanda Aero	AGL	USB,wkg	Air Portugal 236	pt53
8903	2314	N`Djamena Aero	TCD	EE,wkg	SPEEDBIRD 56	pt53+zeTC
8903	0144	Niamey Aero	NGR	USB,cfg	Speedbird 52	pt53
8903	0059	Kano Aero	NIG	USB,wkg	Springbok	pt53
8903	2337	Speedbird 56	AIR	USB,cfg	Bangui Aero	pt53
8903	2215	TJ-CBF Cameroon-708	AIR	USB wkg	Kano 81 PAX+8 Crew	ibG
8903	1732	EL-ALG Air Tanzania	AIR	USB wkg	Luanda to Jeddah	ibG
8903	1720	LAC-2923 Air Atlantic Cargo	AIR	USB wkg	KinshasaREGN:5N-TNO	ibG
8903	1730	D2-MAJ UNID	AIR	USB wkg	Luanda	ibG
8903	1722	YR-JCB Jaro International	AIR	USB wkg	N`djamena B707	ibG
8903	2008	D2-ECW SAL-Sociedade de Aviacao	Ligeria AIR	USB wkg	Luanda	ibG
8903	1802	TAC-501 UNID	AIR	USB wkg	Luanda REGN:EL-WAM	ibG
8903	1803	ZS-OEA UNID	AIR	USB wkg	Luanda	ibG
8903	2012	VP-CMM Executive/VIP a/c	AIR	USB wkg	Kinshasa	ibG
8903	1801	7P-ANC UNID	AIR	USB wkg	Luanda FL260	ibG
8903	2308	5N-AYA Gvnmt of Nigeria	AIR	USB wkg	Kano FL370	ibG
8903	1718	RA-46660 Kirov Air	AIR	USB wkg	Luanda	ibG
8903	1726	D2-FAR UNID	AIR	USB wkg	Luanda	ibG
8921	2028	Speedbird BA London	G	USB,wkg	Speedbird 237	pt53
8930	0140	SDJ Stockholm R.	S	USB,wkg	MCF	pt53
8957	1737	Shannon Volmet	IRL	USB,wx,ID		pt53
8968	1454	XPH5 USAF Thule	GRL	USB clg	Q5BRT0 msg followst	ti26
9025	0913	REACH5104 USAF Flight	AIR	USB clg	THULE pp /RAMSTEIN	ti26
9031	1459	ARCHITECT RAF Upavon	G	USB wkg	wx, forecast	ti26
9031	1516	CYPRUS RAF Akrotiri	CYP	USB wkg	wx-data	ti26
10051	1420	Gander Aero	CAN	USB,Volmet		pt53
10051	1430	New York Volmet	USA	USB,Volmet		pt53
11175	0910	REACH5104 USAF Flight	AIR	clg	ANY RADIO,QSO THULE,QSY	ti26
11175	0929	ARNY USAF Flight	AIR	wkg	CROUGHTON,NUCO-msgs	ti26
11175	1433	XPH5 USAF Thule	GRL	USB,E,wkg	Ckecker 11 ti17+pt53	
11175	1038	AFG4 USAF Offut	USA	clg	SKYKING DO NOT ANSWER!	ti17
11175	1039	AJO USAF Incirlik	TUR	USB clg	ABIAWT msg followst	ti17
11175	1258	AJE USAF Croughton	G	USB wkg	REACH-296 for pp	ti17
11175	1305	NAVY-JM-283 USNy Flight	AIR	wkg	THULE pp/IVSN 6242607	ti26
11175	2231	AFD14 USAF Ascension	ASC	USB wkg	40, wx-data	ti26
11205	1459	ARCHITECT RAF Upavon	G	USB wkg	wx, forecast	ti26
11244	1348	XPH USAF Thule	GRL	wkg	REACH207,pp/RAMSTEIN	ti26
11252	1450	RAF Volmet	G	USB,Volmet,ID		pt53
11253	0959	MVU RAF Upavon Volmet	G	USB wkg	wx for NORTHOP	ti17
11300	1736	TU-VAF VIP/Gvmt	Air	USB wkg	Khartoum FL430	ibG
11300	1509	BSL-201 BSL Airlines of Ukraine	AIR	USB wkg	Khartoum+Mogadishu	ibG
11300	1519	5X-AMM Gvnmt of Uganda	AIR	USB wkg	Khartoum B727	ibG
11309	1612	CSY Santa Maria Aero	AZR	USB,wkg	Michigan	pt53
11309	1606	New York Aero	USA	USB,wkg	Air France 353	pt53
13264	1450	Shannon Volmet	IRL	USB,Volmet		pt53
13270	1422	Gander Aeradio	CAN	USB,Volmet		pt53
13270	1432	New York Volmet	USA	USB,Volmet		pt53
13282	1415	Hongkong Volmet	CHN	USB,Volmet		pt53
13282	1411	Tokio Volmet	J	USB,Volmet		pt53
13304	1319	El Al	ISR	USB,hebr,wkg	UNID	pt53

D I G I T A L

63	1310	?	Unid	?	RTTY Unreadable RTTY	abNL
68,3	1222	?	Unid	?	BAUDOT	abNL
70	1251	?	DECCA stations in G, D, HOL, DNK	?	PULSES Freq 70-72k	abNL
84	1250	?	DECCA stations in G, D, HOL, DNK	?	PULSES Freq 84-86k	abNL
100	1247	?	Various LORAN stations	?	PULSES	abNL
111,3	1219	SOA211	Warsaw Meteo	POL	BAUDOT 50 Synops	abNL
112	1249	?	DECCA stations in G, D, HOL, DNK	?	PULSES Freq112-117k	abNL
123,7	1229	DCF42	IFAG Potsdam	D	RTTY 300 DGPS data	abNL
126	1248	?	DECCA stations in G, D, HOL, DNK	?	PULSES Freq126-129k	abNL

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129,1	1229	DCF49	EFR Berlin	D	ASCII 200 Ripple control	abNL
133,4	1125	?	Datatrak Vehicle Tracking		System HOL DATA	abNL
139	1236	DCF39	EFR Berlin	D	ASCII 200 Ripple control	abNL
145,4	1123	?	Datatrak Vehicle Tracking		System HOL DATA	abNL
147,3	1135	DDH47	Hamburg Meteo	D	BAUDOT 50 RY tape	abNL
2203	1720	MGJ	Ny Faslane	G	rtty,350/75	pt53
2608	1910	FUO	Ny Toulon	F	rtty,850/74.5 vvv +	pt53
2789	1747	FUE	Ny Brest	F	rtty,850/75, ry	pt53
2815	1732	IDR8	Ny Roma	I	rtty,850/100	pt53
2840,7	1617	?	German CG Cuxhaven	D	SITOR-A100 w/mv BG23Sellin	abNL
2840,7	1639	DLVK	ZB Hiddensee (customs launch)	IW	SITOR-A100w/CGNeustadt	NL
2840,7	2105	DLVL	ZB Hohwacht	IW	SITOR-A 100 w/CG Cuxhaven	abNL
2840,7	2108	?	German CG Cuxhaven	D	SITOR-A 100 WX reports	abNL
2840,7	1004	DLGZ	BG21 Bredstedt	IW	SITOR-A 100 w/German CG	abNL
2845	1828	PBB	Ny Den Helder	HOL	rtty,850/75	pt53
287.5	1248	HH	DGPS station Hoek van Holland	HOL	RTTY 100 DGPS data	abNL
3029,7	2102	?	German CG Neustadt	D	SITOR-A 100 WX reports	abNL
3150,5	2103	?	German CG vessel	IW	SITOR-A 100c1g GC Neustadt	abNL
4214	2248	IDR2	Ny Roma	I	BAUDOT 75 CARB	pt53+abNL
4227	2022	IGJ42	Ny Augusta	I	rtty,850/100,ID	pt53
4279	2045		UNID	?	rtty 850/100 y only	pt53
4002	1835	YRR2	Bucharest Meteo	ROU	BAUDOT 50 Synops	abNL
4489	1745	GFL26	Bracknell Meteo	G	rtty,400/75, wx, no ID	pt53
4583	1736	DDK2	Hamburg Meteo	D	BAUDOT 50 RY tape	abNL
4601,5	1732	OA Navy	Dublin	IRL	SITOR-A 100 Routine msgs	abNL
5018,5	1759		UNID	?	ARQ-E? 200/50 y only	pt53
5227	1830		UNID	?	rtty,1000/50, ry/y only	pt53
5247	1710	RFFHCFC	UNID	F	ARQ-E-72,exce. Msg-rffedfb	pt53
5258	1820		UNID	?	ARQ-E? 200/81 y only	pt53
5287,5	1758	?	UNID Guardia Civil stn	E	SITOR-A 100	abNL
5320,5	1818	RETXX	MoI Madrid	E	SITOR-A 100 w/var. GC stn	abNL
5353,5	1743	?	UNID Guardia Civil stn	E	SITOR-A 100	abNL
5400	1808	YOG37	Bukarest Meteo	ROU	rtty,400/50, wx, no ID	pt53
5494,8	1730		UNID	?	rtty,1000/50,ry/y only	pt53
6318	1940	IDR3	Ny Rome	I	rtty,850/75	pt53
6355	1935	USU	Mariupol R.	UKR	rtty,170/504KF de utw/usu	pt53
6388	1703	EBA	Ny Madrid	E	rtty,170/50 naut. warn.	pt53
6984	1440	SNN299	MFA Warsaw	POL	POL-ARQ 100 Msgs	abNL
7223,7	1626	?	EGY Emb Tunis	TUN	SITOR-A 100 Msg to MFACairo	abNL
7596	1458	IEA20	I Army Roma	I	BAUDOT 75 5FG msgs, I talk	abNL
7625	0036	HZN	Jeddah Meteo	ARS	rtty,780/100,wx,no ID	pt53
7634	1445	P6Z	MFA Paris	F	FEC-A-192,L9C de P6Z, ID	pt53
7634	1447	RFGW	MFA Paris	F	FEC-A-192, msgs to n2g,y91	pt53
7657	1458		UNID	?	POL-ARQ,200/50 msgs,no ID	pt53
7677	1605	HBD20	MFA Berne	SUI	SITOR-A 100 5FG msgs to Emb	abNL
8150,4	0851	PBB	Ny Den Helder	HOL	rtty,850/75	pt53
9130	2123	MGJ	Ny Faslane	G	rtty,850/75	pt53
11022	1010		UNID	?	rtty,850/75 encry. Msgs	pt53
11055	1450		FEmb or MFA Paris	F	FEC-A-192 msgs to y91,w3s	pt53
11063	1007	LZU2	Sofia Meteo	BUL	rtty,400/50,synopt.wx,noID	pt53
11080	1801		SANA Damsacus	SYR	rtty,425/50, F-nx	pt53
12134	1045	DOR	MFA Sofia	BUL	rtty,500/200, bulg. nx,ID	pt53
12290,8	1059		UNID	?	teletyper,500 /40.5	pt53
12298	1425		tent. Ny Gibraltar	GIB?	rtty,850/75 ry vmgtcnj	pt53
12780	1158		UNID	?	rtty,100/850	pt53
13399	1430	DFZG	MFA Belgrade	SRB	rtty,400/75 ry,ID, msgs	pt53
14970,3	1023		MFA Stockholm	S	SWED-ARQ 100, to Cairo	pt53
16346	0958		UNID	?	RUM-FEC,218.3,encrypt.msgs	pt53
16995	1012	?	Unid	?	BAUDOT 100 online encr.tfc	abNL
17432	1437	DFZG	MFA Belgrade	YUG	BAUDOT 75 Encr. msgs to Emb	abNL
17550,7	1155	RFTJ	Fny Dakar	SEN	ARQ-M-192,to rffaaf	abNL+pt53
18220,9	1350	CNM76	MAP Rabat	MRC	rtty,425/50,E,nx	pt53
19530,2	1100	FJY2	FTS Port-aux-Francais	KER	ARQ-E-3,96,F msgs to RFGW	pt53
19724,5	1158	UIW	Kaliningrad R.	KAL	SITOR-A 100 w/unid vessel	abNL
26150	1530	?	UNID pager-like system	HOL	DATA on 26150-26850	abNL
26810	1533	?	UNID pager-like system	HOL	DATA Different from 26150	abNL

T I M E S I G N A L

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60	1245	MSF	TS Teddington	G	cw Timesignals	abNL
75	1246	HBG	Observatoire Neuchatel	SUI	cw Timesignals	abNL
77,5	1232	DCF77	PTB Braunschweig	D	cw Timesignals	abNL
3330	0030	CHU	TS Ottawa	CAN	cw,USB,TS/TA	abNL+pt53
7335	2241	CHU	TS Ottawa	CAN	USB TS + anns	abNL
14670	2244	CHU	TS Ottawa	CAN	USB TS + anns	abNL
14996	1710	RWM	Moscow TS Station	RUS	cw CQ + timesignals	abNL

FRENCH MILITARY (INTERNAL) EXERCISES - ARQE/72/400 (UNLESS STATED) pcG  
MARCH (PART) 1998

FREQ	CID	RID	DAY	TIME	REMARKS
2236	-	-	TU/03	2001-?	IDLE - nil tfc
2291.5	UDF	UFD	TU/03	2300-?	Ex ACTIONEX `RFFXCFD de = RFFXCCS`
2291.5	UDF	UFD	TH/05	2310-?	RFFXCFD de RFFXCCS + QSY F11 = F31
2291.5	UDF	UFD	FR/06	1930-?	msgs - no mention of Ex = ACTIONEX ?
2291.5	UDF	UFD	SU/08	2000-?	lots of 5ltr gps _ no exercise = ?
2291.5	UDF	UFD	MO/09	2000-?	msgs _ not exercise ??=20
2519	UFD	UDF	TU/03	2303-?	Ex ACTIONEX `FAVIERE de = RFFXCFD`
2519	UFD	UDF	WE/04	2100-?	msgs
2519	UFD	UDF	TH/05	2305-?	msgs
2519	UFD	UDF	FR/06	1930-?	msgs - no mention of Ex = ACTIONEX ?
2519	UFD	UDF	SA/07	2214-?	Lots of msgs/5ltr gps
2519	UFD	UDF	SU/08	2000-?	msgs
2519	UFD	UDF	MO/09	0935-1300+	msgs
3205	UDF	UFD	TU/03	2010-?	MCA EXERCISE `RFFXCFD de = RFFHAD`
3898	UEF	UFE	TU/03	2310-?	`RFFHCFE de RFFZEFG` + 5ltr = gps
4438.5	-	-	TU/03	2025-?	IDLE - nil tfc
4495	-	-	WE/04	1511-?	IDLE - nil tfc
4495	-	-	TH/05	0830-2300+	IDLE - nil tfc
4495	-	-	FR/06	0832-1930+	IDLE - nil tfc
4495	-	-	MO/09	1730-?	IDLE - nil tfc
5026.5	-	-	MO/02	0950	IDLE - off air by 1010
5026.5	-	-	TU/03	0845-?	IDLE - nil tfc
5096	UEF	UFE	TU/03	0845-1200+	Ex ACTIONEX `RFFZEFG de = RFFHCFE`
5129	UDF	UFD	WE/04	0930-2100+	Ex ACTIONEX `RFFXCFD de = RFFHAD`
5129	UDF	UFD	TH/05	0820-2300	Lots of 5ltr gp msgs
5129	UDF	UFD	FR/06	0830-1930+	`RFFHAD de RFFHAC` + 5ltr gps
5129	UDF	UFD	SA/07	0830-?	msgs
5129	UDF	UFD	SU/08	0930-?	msgs
5129	UDF	UFD	MO/09	0915-1300+	msgs=20
5221	-	-	WE/04	0930-2100+	IDLE - nil tfc
5279	UFD	UDF	TH/05	0824-1830	usual msgs
5279	UFD	UDF	FR/06	0839-1930+	FAVIERES de RFFXCFD
5279	UFD	UDF	SA/07	0830-1930+	msgs but no exercise mentioned
5279	UFD	UDF	SU/08	0930-?	msgs lots of 5ltr gps
5279	UFD	UDF	MO/09	0825-1300+	msgs
5428	-	-	WE/04	1500-1510	IDLE nil tfc
5740	-	-	TU/03	1100-1330	IDLE - nil tfc
5754	UEF	UFE	TU/03	1345-?	Ex ACTIONEX `RFFHCFE de = RFFHCCS`
5922	UFA	UAF	WE/04	1330-1500	`RFFAAT de RFFGCA`
5933	UFR	UEF	TU/03	1210-?	Ex ACTIONEX `RFFAAT/MARSEILE = de RFFHCFE` + lots 5ltr msgs
7420	UFE	UEF	WE/04	1410-1700	`RFFAAT de RFFHCFE`

The Exercise ACTIONEX seemed to end on TH/05/ MARCH, but two day and two night frequencies are continuing in operation (as of 09/03/98) namely UDF/UFD 129/5279 (day) and 2291.5/2519 (night). The messages are not prefixed with EXERCISE and seem to consist of personnel and equipment movements + lots of 5 letter group ones. I have plenty of material to practice my French on!

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
ARG-Ezeiza Volmet	25	1t,ppc/vc,USD	5601		1000 w	pt53

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AUS-Darwin R.	24	lt/ms back	8176	VID	1 kw	hb31
B -Juncao R.	469	lt,ppc/vc,USD	8460	PPJ	1000 w	pt53
BRB-Barbados R.	44	lt/vc,USD (retour)	6330,5	8PO	5000 w	pt53
CAN-Churchill Aero	24	lt,cd/ms	8894		4 kw	hb31
CPV-NDB Ilha do Sal	19	ppc/USD	274	`SAL`	1000 wzeTC	
ETH-Addis Ababa Aero	41	lt,ppc,vc/USD,vc	5517		5000 w	pt53
F -CROSS Gris Nez	15	ppc,lt,i/SASE	2182		250 w	gsLX
FIN-Turku R.	10	lt,ppc/vc,USD	1677	OFK	5000 w	pt53
G -Kinloss Rescue	51	ppc,lt/SASE	5680			gsLX
G -Pentland Coastguard	43	ppc/ms	2182		250w	hb31
G -Girvan Lifeboat	8	lt,ppc/m	2182			hb31
G -Rescue 177	68	RR stamped&signed/vc,IRC	5680			pt53
GRC-Ikaria Aero	804	lt,ppc,info/rp	5637		400w	hb31
IW -Arklow Lifeboat	115	ppc,lt,i,fo/SASE	2182			gsLX
IW -Ferry Prince of Scandinavia	12	lt,ppc/ms	1925			hb31
IW -Ferry Isle of Lewis	10	lt,ppc,info/ms back	2596			hb31
IW -M/T President Hubert	80	ppc,lt,i/SASE	2182	ORLD	200 w	gsLX
IW -M/V Formo	34	ppc,fo/SASE	2182	C6NK5	150 w	gsLX
IW -M/V Veesea Sapphire	40	ppc,fo/SASE	2182	ZHFY8	300 w	gsLX
IW -M/V Short Sea Trader	52	ppc/SASE	2182	MNXW3		gsLX
IW -Nave Libra P-402	73	ppc/SASE	2182	IATB	400 w	gsLX
IW -Rig Transocean Discoverer	40	ppc,fo/SASE	2182			gsLX
NOR-Bergen R.	7	ppc/vc,IRC	1728	LGN	1000 w	pt53
NOR-Orlandet R.	85	lt,ppc/vc,IRC,f/up	2182	LFO	1000 w	pt53
POR-Apulia R.	42	lt,ppc,i/vc,USD	2657	CTN	500 w	pt53
S -Tingstaede R.	6	cd,ppc/vc,IRC	2182	SAE	1000 w	pt53
SEN-FNY	19	lt w/no det./IRC,vc	16951,5	6WW		pt53
USA-San Francisco R.	24	cd from c/a/vc,USD	13002	KPH		pt53
UZB-TS Tashkent	89	f/d cd/USD,vc	5000	ULA4		pt53

## Addresses/Infos/Veri-signers:

Solved NDB`s cf. EUNL 3-98 by tgG:

ZL 266a = ZL 265kHz Zolochiv, UKR DZ 288 = DZ 287.5kHz Dziwnow, POLd  
 BTH 374 = BTH 373kHz Barth, D

The Italian time signal station IAM (5000 kHz), from Rome, is inactive at present. I got the following information from the station: `Service is temporarily suspended because of problems beyond our control. We are trying to resume transmissions as soon as possible; schedule will be unvaried`. So, let`s wait and see when IAM gets on the air again. By the way, their address is: Ministero delle Comunicazioni, Istituto Superiore CTI, Laboratorio Frequenze Campioni, Ufficio 8ø Reparto 2ø, viale America 201, 00144 Roma, Italy. (fmI)

Arklow Lfb.: Arklow Harbour, Arklow, Co. Wicklow, Eire (gsLX)

Formo/C6NK5: Continental Shipmanagement AS, P.O.Box 1281, N-5542 Karmsund (v/s Krzysztof Erdmanczyk,Master) (gsLX)

CROSS Gris Nez: F-62179 Audinghen (gsLX)

Kinloss Rescue: Kinloss ARCC, RAF Kinloss, Forres, Morayshire IV36 0OU, Scotland (gsLX)

Short Sea Trader/MNXW3: Everard &amp; Sons Ltd., The Warf, Greenhite, Kent DA9 9NW (gsLX)

Nave (Ships name+hull): Il Commandante, Marina Post, I-00100 Roma (gsLX)

President Hubert/ORLD: U.R.S., Jordaenskaai 15, B-2000 Antwerp (gsLX)

Transocean Discoverer: Transocean Discoverer Transocean Drilling Ltd., Denmore Industrial Estate, Denmore Road, Bridge of Don, Aberdeen AB23 8JW (gsLX)

Veesea Sapphire/ZHFY8: Vector Offshore Ltd., Harbour Buildings, South Quay Ferryden, Montrose DD10 9SL (gsLX)

Barbados Radio/8PO: Barbados External Telecommunications Ltd., P.O.Box 32, Bridgetown, Barbados, West Indies (v/s= John Bowen, Planning Engineer) (pt53)

Ezeiza Volmet: Aeropuerto Internacional `Mtro. Pistarini`, Escuadron I Comunicaciones, Puerta 50 - 4to. Piso., Ezeiza (C.P. 1802), Pcia Buenos Aires (v/s= Mayor Victor Hugo Polegritti, Jefe Escuadron i Comunicaciones)(pt53)

Turku Radio/OFK: Turku Maritime Traffic Centre, Turku Radio/OFK, FIN-21670 P.,rn.,inen (v/s= G"ran Holmstr"m, Chief of Radio Station) (pt53)

Juncao Radio/PPJ: Embratel S.A., Mal Floriano, 560, 96200-380 Rio Grande - RS - Brazil (v/s= Egas Schwochow, Gerente da Embratel S/a) (pt53)

Rescue 177/Navy 177: 819 Naval Air Squadron, Royal Navy Air Station Prestwick,

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HMS Gannet, Monkton, Ayrshire KA9 2RZ, (v/s= Lt. M. Oxlong; Captain of Navy 177) (pt53)

E.R.N. Almirante Ramos Pereira/Ny Apulia/CTN: via Estado Maior da Armada, Praca do Comercio, 1188 Lisboa

Addis Ababa Aero: Civil Aviation Administration, COM/OPS Branch, P.O.Box 978, Addis Ababa (v/s= Woubshet Kebede) (pt53)

Tinstaeed R./SAE: Hans Karlsson (pt53)

Inquiries Department:

Cf maritime log 2657 khz/Radionaval Stations: Info welcome. I don't think it's Porto Santo/Madeira. The signal was quite good and stable. Anybody with a current sked of Portuguese Radionaval Stations? (hb31)

Anyone with the new address of Ny Capetown/ZSJ? RR back from Commcen Cape, Private Bag, Wynberg 7824 (dmRU)

To lrG: Your inquiry at EUNL 3-98: OM pt53 says you should have a try for Sydney Radio via Roger Boyden, Station Coordinator of Melbourne Radio. Info from his letter: "...For your information the Townsville Radio/VIT RTF GMDSS frequencies are now controlled and operated by the operators from our new Maritime Communications Centre at Ningi (Queensland) near Bribie Island. Here as well they also remotely control and operate the GMDSS frequencies of Sydney Radio/VIS and the HF Radio Telephone Subscriber Service of Melbourne, Perth and Sydney Radio plus during the night Darwin Radio." (pt53)

Until next month. Thanks to (11) contributors: pcG, (other logs will be in EUNL 5-98, space problems!) fmI, zeTC, abNL, ibG, pt53, gsLX, hb31, rk50, dmRU, tgG gd dx + 73`s

Andreas

EUROPEAN UTILITY NEWSLETTER 5-98

\*\*\*\*\*
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\* \*
\* Deadline: 20th of the month!!! \*
\*\*\*\*\*

Hi folks,
Welcome to a brandnew edition of our EUNL. Not more to say - no time to waste.

N D B

Table with 6 columns: Call sign, Frequency, Country, Station name, Mode, and Operator. Rows include: 255 1630 H wroclaw-Strachowice POL id zeTC; 267 2344 FNO Haugesund/Foenyo NOR id zeTC; 275 2346 VG Haugesund/Vaga NOR id zeTC; 275 2326 MS Monastir/Msaken TUN id zeTC; 284 2116 GRN Gorna BUL id+tone nr76; 284,5 2221 PR Porkkala Lt. FIN id+tone zeTC+ti26; 285 2218 URB Roma-Ciampino/Urbe I id zeTC; 300,5 2112 LA Lista Lt. NOR id+tone ti26+zeTC; 301,5 2330 TRE Treviso I id zeTC; 303,5 2337 OR Llobregat Lt. E id+dash rk50; 306,5 2150 UT Utsira Lt. NOR id+tone zeTC; 307 2132 PG Praha/Ruzyne TCH id nr76; 309,5 2108 BA Estaca de Bares Lt. E id+tone zeTC; 311,5 2153 SA Senigallia Lt. I id+tone zeTC



## EUNL1998

312	2340	KBG	Kalrsborg	S	id	zeTC
314	2205	PQ	Porquerolles Lt.	F	id+tone	zeTC
318	2358	LE	Luxembourg	LUX	id	zeTC
319	0000	VAR	Stavanger/Varhaug	NOR	id	ti26+zeTC
320	0005	GLA	Geneva-Gland	SUI	id	zeTC
321	2337	SP	Vojens	DNK	id	rk50
326	2345	YW	Platform Tyra west	IWA	id+dash	rk50
328	2333	TRO	Joday	LBY	id	rk50
329	2338	WU	Umea (your unid,ed)	S	id	rk50
330	0227	SB	Soenderborg	DNK	id	rk50
330a	2343	ZRA	Unid	?	id (once all 6-7 sec)	nr76
334	2210	LE	Vasteras (Hasslo)	S	id	nr76
336,5	2213	NIK	Nicky	BEL	id+tone	zeTC
337	2347	GRT	Gheriat	LBY	id	rk50
337	2143	VRN	Vranje	YUG	id+tone	nr76
337	2148	OZ	Soederhamn/Skallen	S	id	nr76
339	2225	ZL	Maastricht	HOL	id	nr76
341,5	2107	R	Rzeszow/Jasionka	POL	id	nr76
342	2215	LL	Leirin/Fagernes	NOR	id	zeTC
343	2122	KUS	Kaunas/Karmelava	LTU	id	nr76
345	2002	CF	Podhorany	TCH	id	nr76
348,5	2221	LG	Liege-Bierset	BEL	id	zeTC
355	0014	BTB	Bottna	S	id	zeTC
358	0018	GRS	Oslo-Groensand	NOR	id	zeTC
362	2255	BVK	Baatvik	NOR	id	zeTC
363,5	2256	RSK	Roemskog	NOR	id	zeTC
365	2259	WS	Soedrhamn	S	id	zeTC
366	2328	KM	Kalmar	S	id	zeTC
368	2324	FN	Skien/Findal	NOR	id	zeTC
368	2330	RK	Copenhagen-Roskilde	DNK	id	zeTC
369	2335	NL	Gotenburg/Landvetter	S	id	nr76
371,5	2348	TRP	Trapani-Brigi	I	id	zeTC
373	2339	NW	Maastricht	HOL	id	zeTC
375	0003	VM	Vestmannaeyar	ISL	id+dash	rk50
375	2341	RB	Oerebro	S	id	zeTC
376	0009	HP	Esbjerg	DNK	id	rk50
380	0120	FLR	Trondheim/Flornes	NOR	id	nr76
381	2345	ESP	Helsinki-Vantaa	FIN	id	zeTC
381	2223	RG	Rygge-Enge	NOR	id	zeTC
382	2347	EGN	Aigina/Athens	GRC	id	zeTC
383	0032	LST	Lista	NOR	id	zeTC
384	2332	TY	Torsby	S	id	rk50
385	2353	KV	Halli-Kilo Victor	FIN	id	zeTC
385	2355	AVN	Vilnius	LTU	id	nr76+zeTC
385,5	2351	KIL	Kiel-Holtenau	D	id+2 tone	zeTC
390	0012	VAL	Valjevo	YUG	id+tone	zeTC
391	2240	OKR	Bratislava/Chorvatsky	SVK	id	zeTC
396	0016	YG	Rygge-Enge	NOR	id	zeTC
399	2315	MTN	Salamanca	E	id	rk50
399	2221	WBD	Wiesbaden	D	id	zeTC
399,5	2316	ONO	Oostende	BEL	id+tone	zeTC
400	0020	KO	Utti	FIN	id	zeTC
402	0022	ORW	Paris-Orly	F	id	zeTC
403	2336	LPS	Les Eplatures	SUI	id	rk50
417	2246	AH	Aengelholm	S	id	zeTC
418	2332	L	Tallinn	EST	id	rk50
418	2223	GRE	Gebbestad	S	id	zeTC
425	2314	ERT	Erfurt-west	D	id	zeTC
428	0031	TGM	Tirgu Mures	ROU	id	zeTC
434	0035	GR	Gorka	RUS	id	nr76
435	0039	SM	Semyenovka	UKR	id	nr76
435a	2328	GHT	unid	???	id	rk50
440a	1735	FA	Unid	?	id (once all 7-8 sec)+tone	nr76
475	1830	SC	Kolobrzeg	POL	id	zeTC
516	2146	XU	Namest nad Oslavou	TCH	id	nr76
525	0034	CH	Chernyakhov	UKR	id	zeTC
617	2356	SV	Steblev	UKR	id	zeTC
1290	0002	TU	Beliy	RUS	id	zeTC

## EUNL1998

## F I X E D

2714	2049	FDG	AF Bordeaux	F	CW-VVV	zeTC
2762	2150	FDE14	AF Contrexeville	F	CW-VVV	zeTC
2868	2310	FDY	AF Orleans	F	CW-VVV	ti26
3093	2314		Ny St.Petersburg	RUS	CW wkg channelmarker L	ti26
3195	2316		Ny Ustinov	RUS	CW wkg channelmarker R	ti26
3300,5	1950	FDI8	AF Nice	F	CW-VVV	zeTC
3314	2318	HEP3	INTERPOL Zurich	SUI	CW-VVV	ti26
3322	2319		Ny Ustinov	RUS	CW channelmarker R	ti26
3382	0110	FDI22	AF Narbonne	F	CW-VVV	zeTC
4065	2203	TBO	Ny Izmir	TUR	CW-TBDJ DE TBO	abNL
4165	2205	KPA	Mossad	ISR	AM KPA2 broadcast//2953kHz	abNL
4280	1820	FDE14	AF Contrexeville	F	CW-VVV	wk08
4445	1720	?	Poss. numbers stn M4	?	CW in progress	abNL
4515,5	2325	FDG	AF Bordeaux	F	CW-VVV	ti26
4665	1816	MIW	Mossad	ISR	AM MIW2 broadcast	abNL
4880	2200	ULX	Mossad	ISR	AM ULX2 broadcast	abNL
4987	1758	9VDC	Unid (poss Russian)	?	CW J9IL DE 9VDC endless loop	abNL
4987,5	1758	?	Unid	?	CW w/? other stn not hrd	abNL
5064	2329	9MB	Ny Lumut	MLA	CW-VVV	ti26
5153,8	1930	P	Ny Kaliningrad	KAL	CW-marker	wk08
5153,9	1720	S	Ny Arkhangelsk	RUS	CW-marker	wk08
5154	1720	C	Ny Moscow	RUS	CW-marker	wk08
5236	1350	FDI8	AF Nice	F	CW-VVV	pcG
5245	1100	MRC28	RAF Cadets	G	USB MRO16,MRC01,MRA01,MRQ32	abNL
5287	2130	?	Numbers station M13	?	CW Id 411+5FG,Ends with 000	abNL
5435	1900	ART	Mossad	ISR	AM id ART 2	abNL
5709	1902	VDE	M29 numbers station	?	CW-VVV DE VDE + 5FG	abNL
5820	0945	FDG5	AF Bordeaux-Merignac	F	CW-VVV	pcG
6758	1700	MKL	RAF Pitraevie	G	CW TAFS	abNL
6763	0044	FDG	AF Bordeaux	F	CW-VVV	zeTC
6855	1705	?	Unid	?	CW 5FG`s	abNL
6936	2130	RMP/P	RUS Ny Kaliningrad	KAL	CW marker `P` followed by `RMP`	abNL
6992,5	0920	MFP29	RNY Cadets	G	CW clg MFJ99	abNL
				(general	call for all MFJ stations)	abNL
6992,5	1030	MFJ04	RNY Cadets	G	USB MFP29,MFT32,MFP24,MFK62	abNL
7473	0850	FDC	AF Metz	F	CW-VVV	zeTC
7583	0700	?	M8 numbers station	?	CW-id UWRMN AMRMA NRTRA+5FG	abNL
7740	2100	?	Golf kilo numbers stn	D	CW Id 856 + 5FG	abNL
7834,5	1004	FDC	AF Metz	F	CW-VVV	pcG
7917	1245	FDE14	AF Contrexeville	F	CW-VVV	wk08
7993	2100	?	Numbers station M13	?	CW Id 158 + 5FG	abNL
8052	1710	FDI8	AF Nice	F	CW-VVV	zeTC
8117	1830	BMB	Taipei METEO	TWN	CW-CQ + meteo	pcG
8142,5	1823	FDG	AF Bordeaux	F	CW-VVV	pcG
8231	2000	?	M53 Numbers station	?	CW-VVV CQ 747.077 + 5FG	abNL
10046	1704	4XZ	Ny Haifa	ISR	CW-VVV tape	pcG+abNL
10308,5	1646	FDG	AF Bordeaux	F	CW-VVV	zeTC
10470,5	1653	FDI8	AF Nice	F	CW-VVV	zeTC
11212	1503	MKL	RAF Pitravie	G	CW TAFS	abNL
11545	1500		Lincolnshire Poacher	CYP	USB Id 49537 + 5FG	abNL
13905	1200	?	Counting station	?	AM Id 216	abNL
14487	1400		Lincolnshire Poacher	CYP	USB Id 52014 + 5FG//15682	abNL
14654,5	1415	SPW	Warsaw R.	POL	CW/SITOR CW + tlx mkr	pcG
14654,5	1625	SPW	Warszawa R.	POL	CW-de spw qsx	zeTC
15820	2040		R. Provincia de Buenos	Aires ARG	LSB,tent,soccer anns	nr76
15820	2040		Unid	ARG	USB,music-px	nr76
19011,7	1109	PCW1	MFA Den Haag	HOL	CW marker	abNL
20047,9	1150	S	Ny Arkhangelsk	RUS	CW-marker	wk08
20048	1150	C	Ny Moscow	RUS	CW-marker	wk08

## M A R I T I M E

500	2321	OZX	Lynby R.	DNK	CW-CQ	zeTC
500	2322	IDC	Cagliari R.	I	CW-CQ	zeTC
1620,5	2308	SAB	Goeteborg R.	S	CW-id+sitor	zeTC

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1674	2334	SDJ	Stockholm R.	S	cw-id SDJ only	zeTC
1906	2254	LGB	Rogaland R.	NOR	cw-cq, spurious?	ti26
1930	1910	LFI	Rogaland R.	NOR	cw-lfi+sitor	ti26+wk08
2182	0803	3VT	Tunis R.	TUN	F/E, qsy 1768	nr76
2182	1934		CROSS Griz-Nez	F	qsy 1650	nr76
2625	0050	DRAI	FGS Schleswig-Holstein	IW	USB-wkg DHJ59, msgs, qsl	ti26
2625	0058	DRAF	FGS Moelders	IW	USB-clg DHJ59	ti26
2625	0108	DHJ59	Ny wilhelmshaven	D	USB-clg DRAF, r/c, qrv	ti26
2625	0202	DRAN	FGS Augsburg	IW	USB-clg DHJ59, r/c, zbo2p, qrv	ti26
2749	0152		Fundy CG	CAN	E ID, wx	hb31
2843	0106	CUB	Madeira R.	MDR	tfc-list	nr76
3245	1950	UCE	Arkhangelsk R.	RUS	SITOR/A wkg ucnn/ucok	pcG
4154,3	0141	DRAO	FGS Luebeck	IW	USB-wkg DHJ59, msgs, qsl, qru	ti26
4154,3	2208	DRAI	FGS Schleswig-Holstein	IW	USB-wkg DHJ59, msgs, qsl	ti26
4154,3	2310	DHJ59	Ny wilhelmshaven	D	USB-clg DRAF, r/c, qrv, msgs	ti26
4224,3	1858	TCR	Tophane Kulesi R.	TUR	cw-cq, tfc list	wk08
4250	1135	PCH20	Scheveningen R.	HOL	cw-de pch20 4 k	wk08
4261	2012	EBA	Madrid R.	E	cw-cq, navarea	wk08
4273	1136	SAA	Karlskrona R.	S	cw-cq -list 4275- //6357	wk08
4292	2358	IAR24	Roma R.	I	cw-cq, tfc list	wk08
4303	1138	OXZ2	Lynby R.	DNK	cw-cq de oxz2/..	wk08
4339	1920	LFI	Rogaland R.	NOR	cq-lfi+sitor	wk08
4343	2200	RKLM	Arkhangelsk R.	RUS	cw-tfc list - qrm fm sva2	pcG
4360	1745	UMV	Murmansk R.	RUS	USB, R, r/t tfc, YL-id	zeTC
4378	2133	9AR	Rijeka R.	HRV	USB, Cro, r/t tfc, OM-id	zeTC
6357	2121	SAA	Karlskrona R.	S	cw-cq/QSX tape	abNL
6371,5	1635	RKLM	Arkhangelsk R.	RUS	cw-4ly de rkml qsx	wk08
6380	0906	RJFY	St. Petersburg R.	RUS	cw-cq	pcG
6400	1859	UON	Baku R.	AZE	cw-vvv //8500 khz	nr76
6436	2240	XSG	Shanghai R.	CHN	cw-cq, qru?	wk08
6465	0800	LFI	Rogaland R.	NOR	cw-id+sitor	zeTC
6467	1203	LFI	Rogaland R.	NOR	cw-lfi+sitor	wk08
6470	1730	SXA24	Ny Piraeus	GRC	cw-vvv	pcG
6493,5	1710	LYL	Klaipeda R.	LIT	cw-wkg tfc + cq call	pcG
6507	1830		Petromin Constanta	ROU	OM clg all ships qsy ch808	wk08
6779	2031	DRAI	FGS Schleswig-Holstein	IW	USB-wkg DHJ59, msgs, qsl	ti26
6779	2032	DRAN	FGS Augsburg	IW	USB-clg DHJ59, r/c, zbo 1o	ti26
6815	0649		Compamare Termoli	I	r/c w/ Molfetta	hb31
6815	0730		Compamare Rimini	I	r/c with ICI	hb31
6815	0718	ICI11	Catania Coast Guard	I	r/c w/Molfetta	hb31
8130	0139	TBO	Ny Izmir	TUR	cw-vvv de t23c	ti26
8335,3	2237	DRAO	FGS Luebeck	IW	USB-wkg DHJ59, msgs, qsl	ti26
8417,5	1930	XSV	Tianjin R.	CHN	SITOR/A cw/tlx mkr	pcG
8420,5	2256	CBV	Valparaiso R.	CHL	SITOR/A cw/tlx mkr	pcG
8421,5	2300	VRX	Hong Kong R.	CHN	SITOR/A cw/tlx mkr	pcG
8422,5	0955	USU	Mariupol R.	UKR	SITOR/A wkg uzwl	pcG
8442,3	1958	TCR	Tophane Kulesi R.	TUR	cw-cq	ti25+pcG+wk08
8450	1701	RUF9	Krasnodar R.	RUS	cw-cq + tfc list	pcG
8451	1202	UBF2	St. Petersburg R.	RUS	cw-4lt3 de ubf2	pcG+wk08
8459	1900	YQI4	Constanta R.	ROU	cw manual wkg	pcG
8461	0850	PKD	Surabaya R.	INS	cw-cq	pcG
8469	2154	D4A	Mindelo R.	CPV	cw-cq + tfc list	pcG
8469,2	1903	ZRH	Ny Capetown	AFS	cw-mkr	pcG
8473,5	2130	A7D	Doha R.	QAT	cw-de mkr	pcG
8474	2311	HCG	Guayaquil R.	EQA	cw-vvv + qsw 8/12 mhz	pcG
8476	1915	9VG56	Singapore R.	SNG	cw-long cq mkr + freq info	pcG
8480	1755	HZY	Ras Tannura R.	ARS	cw cq + qtc list	pcG
8488	1745	ZRX	Ny Capetown? Durban, ed	AFS	cw `de zrx qsx 2/3/4/6` mkr	pcG
8496	2225	CLA	Havana R.	CUB	cw-cq	pcG
8505	0900	RJFY	St. Petersburg R.	RUS	cw-cq/qsw4223/6380/8505/12765	5cG
8506	2235	XSX	Chi-lung R.	TWN	cw nav warning msgs	pcG
8515	1858	5AT	Tripoli R.	LBY	cw-v/cq mkr + many spurious	pcG
8521	0954	VIP	Perth R.	AUS	cw cq + lonf safety msg	pcG
8522	2254	CBV	Valparaiso R.	CHL	cw-vvv	pcG
8523,4	0915	JOR	Nagasaki R.	J	cw-cq	pcG
8542	1800	PKX	Jakarta R.	INS	cw-cq mkr	pcG
8568,5	2337	PFM	Manzanillo R.	MEX	cw usual slow mkr	pcG
8570	2125	WNU43	Slide11 R.	USA	cw-cq	pcG

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8570,5	1918	UWS	Kiyev R.	UKR	cw-wkg tfc	pcG
8571	1950	JNA	Tokyo R.	J	cw-cq + met info	pcG
8571	2110	UFN	Novorossiysk R.	RUS	cw-wkg udhc + mkr	pcG
8573	2159	CLA	Havana R.	CUB	cw-wkg tfc	pcG
8577	2159	HLO	Seoul R.	KOR	cw-cq	pcG
8589	2204	HPP	Panama INTELMAR R.	PNR	cw v/cq mkr	pcG
8589,5	2308	VTK	Ny Tuticorin	IND	cw-vvv	pcG
8600	2205	XSV	Tianjin R.	CHN	cw-cq mkr	pcG
8602	2247	CWA	Cerrito R.	URG	cw-cq	pcG
8604,5	2305	DZJ	Manila-Bulacan R.	PHL	cw-cq	pcG
8605	2130	UIW	Kalinigrad R.	KAL	cw-wkg tfc	pcG
8610	2009	UCE5	Arkhangelsk R.	RUS	cw-de uce5 k	wk08
8624	1819	XSQ4	Guangzhou R.	CHN	cw-cq	pcG
8634	2250	VTG	Ny Bombay	IND	cw-vvv	pcG
8635	1815	UTQ7	Kiev R.	UKR	cw-cq	pcG
8636	1726	HLW	Seoul R.	KOR	cw-cq mkr	pcG
8646	2254	LPD86	General Pacheco R.	ARG	cw-vvv	pcG
8650	1758	SPE42	Szczecin R.	POL	cw`de spe42/spe61/spe81`	pcG
8658	2259	ASK	Karachi R.	PAK	cw`v de ask qsx 8/12 mhz`	pcG
8661	1840	XSG	Shanghai R.	CHN	cw-cq mkr	pcG
8662	1846	TAH	Istanbul R.	TUR	cw-cq mkr	pcG
8665	1848	XSG	Shanghai R.	CHN	cw-cq mkr	pcG
8691	1615	XST	Qingdao R.	CHN	cw-cq	pcG
8722	1601	7TF37	Boufarik R.	ALG	USB,F,r/t tfc,YL-di	zeTC
8749	2200	WOO	Ocean Gate R.	USA	usb-OM id,wx //13104	zeTC+wk08
10192,5	2015	DRAO	FGS Luebeck	IW	USB-wkg DHJ59,msgs,qs1	ti26
12579,5	1931	9VG80	Singapore R.	SNG	SITOR/A tlx/cw mkr	pcG
12580	1610	ZLA	Awanui R.	NZL	cw-id+sitor	nr76
12581	1937	LSD836	Buenos Aires R.	ARG	SITOR/A tlx/cw mkr	pcG
12585,5	1945	VRX	Hong Kong R.	CHN	SITOR/A tlx/cw mkr	pcG
12587	1947	LZW54	Varna R.	BUL	SITOR/A wkg 9HUL4	pcG
12591	0858	A7D	Doha R.	QAT	cw-id+sitor	zeTC
12610,5	1703	RUF9	Krasnodar R.	RUS	cw-cq + qtc list as 8450	pcG
12629	1235	KHF	Guam R.	GUM	cw-id+sitor	nr76+zeTC
12634,5	1000	TAH	Istanbul R.	TUR	SITOR/A tlx/cw mkr	pcG
12647	2014	LPD	General Pacheco R.	ARG	cw-id+sitor	zeTC
12654	1425	TAH	Istanbul R.	TUR	cw marker	abNL
12662	1410	7TF8	Boufarik R.	ALG	cw-vvv marker	abNL
12668	1415	A9M	Hamala R.	BHR	cw marker	abNL
12675	1750	SAA	Karlskrona R.	S	cw-cq mkr	pcG
12680	1422	9MR	Ny Johore Baharu	MLA	cw-vvv marker	abNL
12695,8	1050	CNP	Casablanca R.	MRC	cw-cq,qsx	pcG+wk08
12699	2110	HPP	Panama INTELMAR R.	PNR	cw long v/cq mkr	pcG
12711	2314	HCG	Guayaquil R.	EQA	cw-vvv //8474	pcG
12719,8	1336	ZLO5	Ny Auckland	NZL	cw-ZLO ZAY A1A etc	pcG+abNL
12732	1000	USU	Mariupol R.	UKR	cw-cq de utw/usu qss	abNL+wk08
12735	1406	URL	Sevastopol R.	UKR	cw-cq	pcG+abNL
12738,5	2100	PPR	Rio de Janeiro R.	B	cw-cq de ppr nowtfc list	pcG+wk08
12748	1332	IRM	Roma Medico R.	I	cw-vvv tape	abNL
12765	0903	RJFY	St. Petersburg R.	RUS	cw-cq	pcG
12781,5	2127	9MB	Ny Lumut	MLA	cw-vvv 9mb19	wk08
12799,5	1329	PCH51	Scheveningen R.	HOL	cw marker	abNL
12808,5	1326	VTG7	Ny Bombay	IND	cw-vvv tape	abNL
12823,5	1324	CTP	NATO Oeiras	POR	cw-vvv tape	abNL
12829,5	1425	XFM	Manzanillo R.	MEX	cw slow vv cq xfm gru 8/12`	pcG
12830	0905	RKLM	Arkhangelsk R.	RUS	cw-4ly de rklm qsx...	wk08
12835,4	1322	GKB5	Portishead R.	G	cw marker	abNL
12856	1304	XSG	Shanghai R.	CHN	cw-cq marker	abNL
12887,5	1307	EAD44	Madrid R.	E	cw QSX tape	abNL
12940	1238	LZW	Varna R.	BUL	cw-cq marker	abNL
12966,8	1235	A7D	Doha R.	QAT	cw-DE A7D	abNL
12969	1200	XSV	Tianjin R.	CHN	cw-cq	abNL+pcG
12969	1244	SUH4	Alexandria R.	EGY	cw-cq marker	pcG+abNL
12984	1443	4XZ	Ny Haifa	ISR	cw-vvv marker	abNL
13015,5	1232	IAR3	Roma R.	I	cw-vvv tape	abNL
13024,5	1240	ASK	Karachi R.	PAK	cw`de ask qsx12/16mhzch3/4`	pcG
13044	0846	VRX61	Hongkong R.	CHN	cw-cq, qsx	zeTC
13050	1225	UDK2	Murmansk R.	RUS	cw w/unid	abNL

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13060	1224	UFJ	Rostov R.	RUS	cw-cq marker	abNL
13063	1224	JDB	Nagasaki R.	J	cw-cq marker	abNL
13076,5	1222	JNA	Tokyo Coast Guard	J	cw-cq marker	abNL
13170	1220	SVN59	Athens R.	GRC	USB Phone patch	abNL
16808	0946	SPA85	Gdynia R.	POL	cw-id+sitor	zeTC
16811	0831	CBV	Playa Ancha R.	CHL	cw-id+sitor	zeTC
16812,5	1043	NRV	USCG Agana	GUM	cw-id+sitor	zeTC
16816	0835	ZSC	Capetown R.	AFS	cw-id+sitor	zeTC
16821	0837	VRX83	Hongkong R.	CHN	cw-id+sitor	zeTC
16830	0339	UCE	Archangelsk R.	RUS	cw-id+sitor	zeTC
16836	0954	UFL	Vladivostok R.	RUS	cw-id+sitor	zeTC
16851,5	1450	SAB	Goeteborg R.	S	cw-id+sitor	zeTC
16868	1520	9VG48	Singapore R.	SNG	cw-id+sitor	zeTC
16893	1522	USU	Mariupol R.	UKR	cw-id+sitor	zeTC
16898	0847	XSG	Shanghai R.	CHN	cw-id+sitor	zeTC
16935	1003	A7D	Doha R.	QAT	cw-de-a7d	wk08
16984	1230	PPR	Rio R.	B	cw-vvv	pcG
17015	1345	UTQ7	Kiev R.	UKR	cw-cq,qsx	wk08
17021,6	1235	TAH	Istanbul R.	TUR	cw-cq	pcG
17141	1330	UFN	Novorossiisk R.	RUS	cq-cq de ufn qsw 4245/8571/wk08	wk08
17201	0840	LFI	Rogaland R.	NOR	cw-id+sitor	zeTC
19688	1404	KHF	Guam R.	GUM	cw-id+sitor	zeTC
19692,5	1510	ZSC	Capetown R.	AFS	cw-id+sitor	zeTC
19697	1615	8PO	Barbados R.	BRB	cw-id+sitor	zeTC
19697,5	1412	SPB71	Szczecin R.	POL	cw-id+sitor	zeTC
19706	1020	LSD836	Argentina R.	ARG	cw-id+sitor	zeTC
19720	1058	UUUT	mv Ivan Burmistrov	IW	cw w/unid	abNL
19736	1410	ZLA	Awanui R.	NZL	cw-id+sitor	zeTC
19755	1424	EHY	Madrid R.	E	USB,E,r/t tfc,id	zeTC
22015	1028	GTK76	Portishead R.	G	USB Phone patch	abNL
22098	1032	YQI71	Constanta R.	ROU	USB Phone patch	abNL
22382	1040	NRV	USCG Agana	GUM	cw-id+sitor	zeTC
22387,5	1642	SVS	Athens R.	GRC	cw-DE SVS	abNL
22389,5	0824	NMO	Honolulu R.	HWI	cw-id+sitor	zeTC
22395	1451	KPH	San Francisco R.	USA	SITOR-A 100 w/unid vessel	abNL
22459	1038	XSX	Chi-Lung R.	TWN	cw-cq marker	abNL
22525	1043	IRM	Roma Medico R.	I	cw-vvv tape	abNL
22563,5	1044	9AR	Rijeka R.	HRV	cw-vvv tape	abNL
22575,5	0840	PKX	Jakarta R.	INS	cw-cq,gru?	wk08
22589,5	1015	SVA7	Athinai R.	GRC	cw-de sva7	abNL+wk08
22592,5	1046	A9M	Hamala R.	BHR	cw-cq marker	abNL
22595,7	1632	SVB7	Athens R.	GRC	cw-QSX	abNL
22628,5	1145	VTG9	Ny Mumbai	IND	cw-vvv	wk08
22723	1050	SVN72	Athens R.	GRC	USB Phone patch	abNL
22786	1043	SVN76	Athens R.	GRC	USB Phone patch	abNL

## A E R O

5517	2010	HB-IBX	UNID	AIR	USB wkg Sana`a Selcal-GRFK	ibG
5517	2012		Air Tanzania-8717	AIR	USB wkg Asmara	ibG
5535	2330	CKT7426	Caledonian G-BBAJ	AIR	wkg Speedbird Selcal:BD-GHwk08	wk08
5544	2345		SAUDIA Jeddah	ARS	ctc SAUDI plane,qsy 8927	nr76
5568	2205		LIAT Ops	?	wkg LIAT flight	hb31
					(no location given - ideas?)	
5658	2157	TSE-5248	Transmile Air	AIR	USB clg Bombay FL310	ibG
5658	2202	AKH-417	Turkmenistan Akhal	AIR	USB wkg Karachi	ibG
5658	2144	LCI-8508	UNID	AIR	USB wkg Bombay Selcal-BGEL	ibG
5658	2151	CXJ-788	Xinjiang Airlines	AIR	USB wkg Lahore FL330	ibG
5680	1305		Kuresaare Rescue	EST	OM E id,r/c w/Gotland	hb31+mo76
5680	1303		Gotland Rescue	S	OM E id,r/c w/Riga R.	mo76
5680	1305		Tallinn Rescue	EST	OM E id,r/c w/Gotland	hb31+mo76
5680	1542		Kinloss Rescue	G	USB,E,wkg Rescue 177	pt53
5687	0922	DHO32	AF wunstorff	D	wkg DHM91	hb31
5687	0848	S...81	UNID German AF (Info?)	D	w DHM91(maybe a/c SFOR,ed)	hb31
6556	1708	IPR-572	Icar Airlines	AIR	USB wkg Calcutta FL240	ibG
6556	2055		Chennai Aero	IND	USB,E,wkg Lufthansa 755	pt53
6556	2057		Calcutta Aero	IND	USB,E,wkg Speedbird 65	pt53
6556	2020		Dhaka Aero	BGD	USB,E,wkg Thai 911	pt53

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6556	2042		Singapore Aero	SNG USB,E,wkg Springbok 298	pt53
6586	0131		New York Aero	USA USB,E,wkg Speedbird 4516	pt53
6637	0135		Silvair Miami	USA USB,E,wkg Connie 801	pt53
8861	2147	5V-TPE	UNID (Air Dabia??)	AIR USB wkg Dakar	ibG
8861	2024	5V-TPA	Air Dabia	AIR USB wkg Dakar B-727 FL310	ibG
8861	0146		Canarias Aero	CNR USB,E,wkg Dakar	pt53
8861	0145		Bamako Aero	MLI USB,E,wkg Speedbird 25?	pt53
8861	0121		Dakar Aero	SEN USB,E,wkg Alitalia 675	pt53
8867	2039		Brisbane Aero	AUS USB,E,wkg tent Fokker 66	pt53
8879	1756		Shanwick Aero	G USB,E,wkg Olympic 415	pt53
8879	1956		Gander Aero	CAN USB,E,wkg Iberian 9603	pt53
8891	2328		Baffin Aero	CAN ctc Springbok 3587	nr76
8891	1951		Iceland Aero	ICE USB,E,wkg Speedbird 285	pt53
8894	0046		Djanet Aero	ALG USB,E,wkg Sabena 559	pt53
8894	0047		Algier Aero	ALG USB,E,wkg LH 565	pt53
8894	0046		Niamey Aero	NGR USB,E,wkg LH 565	pt53
8894	0056		N`Djamena Aero	TCD USB,E,wkg Speedbird 56	pt53
8903	2152	TR-LCJ	VIP/Gvmt	AIR USB clg Kano	ibG
8903	2141	ALX-805A	AliTaxi	AIR USB clg Lubumbashi FL310	ibG
8903	1732	AFJ-105	Alliance Air	AIR USB wkg Luanda	ibG
8903	2004	TSC-100	Air Transat	AIR USB wkg Brazzaville FL330	ibG
8903	1817	EL-ASC	UNID	AIR USB wkg Luanda FL220	ibG
8903	2031	Alpha One	(Airforce One)	AIR USB wkg Kinshasa and also	
Entebbe 2146-Selcal check on AKFP-Entebbe informed Alpha One that Reach - 6101 had just landed ibG					
8903	2239		Swissair 285	AIR ctc Kinshasa	nr76
8903	2056		Lubumbashi Aero	ZAI ctc Kinshasa	nr76
8903	2247		Entebbe Aero	UGA ctc Kinshasa in F	nr76
8903	0028		N`Djamena Aero	TCD USB,E,wkg LH 574	pt53
8903	1759		Luanda Aero	AGL USB,E,wkg Libreville	pt53
8903	1759		Libreville Aero	GAB USB,F,wkg Luanda Aero	pt53
8906	1840	CSY	Santa Maria Aero	AZR USB,E,wkg Cubana 431	pt53
8906	1748		Shanwick Aero	G USB,E,wkg American 146	pt53
8921	1706		Speedbird BA London	G USB,E,wkg Speedbird 157	pt53
8930	1858	SDJ	Stockholm Radio	S USB,E/F,wkg Air France 2390	pt53
8942	1510		Singapore Aero	SNG USB,E,wkg UNID	pt53
9003	1806		ALIA Base Amman	JOR ctc Jordanian 2638	nr76
11240	1731		LDOC Damascus	SYR USB w/Syrianair 352	abNL
11244	1814		USAF Albrook	PNR USB EAM G40VQA	abNL
11244	1832		USAF Thule	GRL USB w/Croughton	abNL
11247	1800		Architect	G w/Ascot6009,selcal-checkAJFK	abNL
11247	1140	JGN84	UNID	AIR wkg Architect Selcal: AH-KLwk08	
11247	1257	ASCOT6611	RAF Flight	AIR wkg Architect Selcal: AK-BJwk08	
11247	1314	GFF	Kinloss Rescue	G usb-wkg Rescue 13	wk08
11285	1608		Colombo Aeradio	CLN w/unid ac Selcalcheck LMRS	abNL
11285	1610	TSE-5272	Transmile	AIR USB w/? Pos report	abNL
11285	1740		Chennai Aero	IND USB,E,wkg Speedbird 34	pt53
11285	1738		Colombo Aero	CLN USB,E,wkg Singapore 404	pt53
11285	1730		Kuala Lumpur Aero	MLA USB,E,wkg Singapore 340	pt53
11285	1718		Singapore Aero	SNG USB,E,wkg Iranian 841	pt53
11288	1622		LDOC Riyadh	ARS USB w/Saudia 003	abNL
11297	1507		St. Petersburg Volmet	RUS USB Volmet	abNL
11297	1514		Moscow Volmet	RUS USB Volmet	abNL
11297	1520		Kiev Volmet	UKR USB Volmet	abNL
11297	1525		Rostov Volmet	RUS USB Volmet	abNL
11300	1706	MEN-1606	UNID	AIR USB wkg Cairo	ibG
11306	1628	GKX	Portishead R.	G w/KTP322, dept MFM eta BKK	abNL
11309	1552		Santa Maria	AZR USB w/COTAM 1013	abNL
11318	1524		Tyumen Volmet	RUS USB Volmet	abNL
11318	1530		Syktyvkar Volmet	RUS USB Volmet	abNL
11318	1545		Samara Volmet	RUS USB Volmet	abNL
11345	1527	SDJ	Stockholm R.	S USB w/Northwest 58	abNL
11351	1718		LDOC Paris	F USB w/var. Air France a/c	abNL
11354	1602		LDOC Johannesburg	AFS USB w/Springbok 270	abNL
11387	1530		Sydney Volmet	AUS USB	abNL

D I G I T A L

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2201	2257		NATO naval force	?	RTTY 75 w/ encr. ship-shore	ti26
2203	0438	GYA	DCN London	G	RTTY 75 wkg carb-msgs	ti26
2288	2300	RFF---	FF UNID?	F	ARQE/72/400 idle-all night	pcG
2565	1916	RFF---	FF UNID?	F	ARQE/72/400 idle-nil tfc	pcG
2608	0440	FUO	Ny Toulon	F	RTTY 75 wkg RY-SG testing	ti26
2789	0443	FUE	Ny Brest	F	RTTY 75 clg FAA DE FUE test	ti26
2806	0444	IGJ	Ny Augusta	I	RTTY 100 wkg carb-msgs	ti26
2815	0445	IDR	Ny Roma	I	RTTY 75 wkg CARB-msgs	ti26
2829	,5	1910	SPB	POL	SITOR/B msg-telex tariffs	pcG
2845	0446	PBB	Ny Den Helder	HOL	RTTY 75 wkg CARB-msgs	ti26
3122	0449	MKL	RAF Pirteavie	G	RTTY 75 wkg encr.air-ground	ti26
3451	,5	2214	0A	IRL	SITOR-A 100 Msg to PT79	abNL
3608	1930	RFF---	FF UNID?	F	ARQE/72/400 cont idle(36hrs)	pcG
4002	0456	YRR4	Meteo Bucuresti	ROU	RTTY 50 wkg AAXX-reports	ti26
4035	,5	1940	?	G	PICC/? s/ch idle	pcG
4035	,5	2120	UNID	?	Spread 51,idle 102,6/30	pt53
4221	2110	GYU	Gibraltar DCN	GIB	ITA2/75/170`manual carb08a`	pcG
4232	0459	FUF	FNy Martinique	MRT	RTTY 75 wkg RY-SG-TEST	ti26
4490	,5	1804	?	G?	PICC/? single/ch idle	pcG
4583	2100	DDK2	Hamburg Meteo	D	rtty 425 shift/50 bd,wx	pt53
4813	1844	LZA8	Sofia Meteo	BUL	BAUDOT 50 Synops	abNL
4972	,4	24hrs	?	D	ARQE/96/85 cont idle-nil tfc	pcG
5221	,5	2300	TYE	BEN	ARQE342/96/400/2ch`chdetye`	pcG
5312	1900	DZFG	MFA Belgrade	YUG	ITA2/75/400 dzfg grq ryry	pcG
5315	2145	BJZ27	Wuhan METEO	CHN	ITA2/75/400 cont met	pcG
5397	,7	1936	RFFP	F	ARQ342/200/400/2ch FDXA/FDXB	pcG
5426	2130	RFF---	FF UNID?	F	ARQE/72/400 cont idle-niltfc	pcG
5430	2204	RFF---	FF UNID?	F	ARQE/192/400 idle	pcG
5430	2145	RVM45	Tashkent METEO	UZB	ITA2/50/400 cont met	pcG
5732	,5	DAILY	RF--	F?	ARQE/72/400 usual cont idle	pcG
6483	1659	PBB	Ny Den Helder	HOL	BAUDOT 75 CARB	abNL
6679	1655	FD3GO	IPRNET (F pirate packet network)	F	PACKET 300	abNL
			Stations on-line FD3GO, FRA3CP, FRA3NG, FRA3JF			abNL
6972	1712	YOG59	ROMPRESS Bucharest	ROU	BAUDOT 50 News in FF	abNL
7614	0830	RFFH	Marseille	F	ARQE/192/170 EHR Mondaytest	pcG
8050	,2	2245	RFQP	DJI	ARQ342/200/400/2ch QPB/QPC	pcG
8053	,2	1930	RFFA	F	ARQ342/200/400/2ch PQB/PQC	pcG
8500	2230	VTH	Ny Bombay	IND	ITA2/50/850`vth1/4/5/7rbs1`	pcG
8568	2120	FUV	FF Djibouti	DJI	ITA2/75/850`kilo de fuv`test	pcG
8642	,1	1810	GYA	G	ITA2/75/360 carb mkr	pcG
10397	,7	2030	RFFA	F	ARQE3/200/400FDX to Incirlik	pcG
10424	1300	YMA20	Ankara METEO	TUR	ITA2/50/850 ryry+into meteo	pcG
10521	,7	2200	RFLI	MRT	ARQE3/192/400 LIJ to Dakar	pcG
10869	,2	2205	RFVI	REU	ARQE3/100/400 RUN to Jibuti	pcG
10917	,7	1645	RFTJ	SEN	ARQE3/48/400 TJF to P.Bouet	pcG
11159	1549		UNID	?	rtty,850/75	pt53
11305	1627	?	MFA Cairo	EGY	SITOR-A 100 encrypted msgs	abNL
11453	1538	IMB	Rom Meteo	I	rtty,850/50,wx,no ID	pt53
12615	0955	USU	Mariupol R.	UKR	SITOR wkg tfc	pcG
12691	2115	FUX	FF Le Port	REU	ITA2/75/850`faaa de fux`	pcG
12714	1258	UCE	Arkhangelsk R.	RUS	SITOR-A 100 wkg UCMP	abNL
12932	,5	1255	EBA	E	BAUDOT 100 encrypted msgs	abNL
12942	1310	RKLM	Arkhangelsk Fisheries R.	RUS	BAUDOT 50 tfc to vessels	abNL
14406	,9	1305	MKD	CYP	PICC/6 2ch`muh de mkd`	pcG
14497	,5	2025	CSY	AZR	ITA2/50/850 de csy ryry mkr	pcG
14573	0935		JANA Tripoli	LBY	ITA2/50/400 AA news	pcG
14650	,5	1520	?	?	PICC/6 2chidle/crypto(muh?)	pcG
14677	1425	V5G	MFA Bucharest	ROU	ROU-FEC/164.5/400 con crypto	pcG
14912	,5	1915	S00	POL	POL/ARQ Polish news	pcG
15803	,5	1420	?	?	PICC/? 2ch - both idle	pcG
15833	1532	V5G	Bucharest	ROU	ROU-FEC/164.5/400crypto+cwid	pcG
16087	,7	1540	RFVI	REU	ARQE3/100/400 REI to Paris	pcG
16125	,2	1550	RFQP	DJI	ARQ342/200/400/2ch QPA/QPF	pcG
16165	,2	1530	RFFA	F	ARQ342/200/400/2ch toDjibuti	pcG
16193	,2	1520	RFQP	DJI	ARQ342/200/400/2ch QRG/QPF	pcG
16280	,2	1600	RFFA	F	ARQ342/200/400/2ch RQG/RQF	pcG
16305	,7	1555	RFTPA	TCD	ARQE3/200/400 FDZ2A to Paris	pcG
16324	,7	1559	RFTJD	GAB	ARQE3/192/400 JDJ to Dakar	pcG

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16816	1629	ZSC	Capetown R. (GLOBE W.)	AFS	SITOR/A wkg esol/Lehtma	pcG
17066,5	1510	A9M	Bahrain R. (GLOBE W.)	BHR	SITOR/A free sig + clg bmcz	pcG
18320,7	1830	RFTJ	FF Dakar	SEN	ARQE3/192/400 TJD to Librev.	pcG
18503,7	1835	RFFA	FF Paris	F	ARQE3/192/400 LFB to rfli	pcG
18648,5	1850	SOT	Warsaw PAP	POL	POL/ARQ crypto tfc	pcG
18723	1545	?	UNID?	?	ITA2/50/400 SS news + off	pcG
18750,5	1900	?	DCN UNID?	?	PICC/? s/chan idle	pcG
19101,7	1637	RFLI	FF Ft. De France	MRT	ARQE3/192/400 BFL to Paris	pcG
19860	1054	MGJ	Ny Faslane	G	BAUDOT 75 CARB	abNL
22435	1040	XSG	Shanghai R.	CHN	SITOR-A 100 w/unid vessel	abNL
22669	1628	GYU	RNY Gibraltar	GIB	BAUDOT 75 CARB	abNL

T I M E S I G N A L

60	1647	MSF	NPL Teddington	G	cw-timesignals	zeTC
66,7	1650	RBV	TS Moscow	RUS	cw-timesignals	zeTC
75	1653	HBG	Obervatorie Neuchatel	SUI	cw-timesignals	zeTC
77,5	1655	DCF77	PTB Mainflingen	D	cw-timesignals	zeTC
2500	2029	ULA4	TS Tashkent	UZB	id`s,ts	nr76
5000	2100	ULA4	TS Tashkent	UZB	cw-timesignals	zeTC
14670	1620	CHU	NRC Ottawa	CAN	USB,E,F,id,TS,TA	zeTC
15000	1433	WWV	NBS Fort Collins,CO	USA	USB,E,TA,TS	zeTC
15000	0819	BSF	TS Chung-li,Taipei	TWN	cw,USB-TS,CH YL-id	zeTC
15000	0929	BPM	SAO Lington	CHN	cw,USB-TS,CH YL-id	zeTC
20000	1628	WWV	NBS Fort Collins,CO	USA	USB,E,TS,id	zeTC

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AFS-Ny Capetown	41	f/d cd	8561	ZSJ		lrG
ALB-M/V GC Giulio Ingianni	CP409	36 ppc/ms	6815	IHMV		hb31
(posn clearly stated as `Porto di Durazzo/Albania`)						
ALG-Alger R.	45	PPC,RR/st,IRC	2182	7TA	5000 w	pt53
ALG-NDB Alger	21	ppc,seasons greetings	342	`OA`		nr76
ALG-NDB Oran/Es Senia	21	ppc	415	`ON`		nr76
ALG-NDB Ouargla	21	ppc	356,5	`OU`		nr76
ALG-NDB Timimoun	21	ppc	383	`TIO`		nr76
ARG-Argentina R.	14	f/d ppc	12581	LSD836		nr76
F -CROSS Med	21	lt 2f/up`s	1696			lrG
CAN-Gander Aero	264	ppc	2971			lrG
CAN-TS Ottawa	32	no det. cd/vc,USD	3330	CHU	3000 w	pt53
CAN-Prince Rupert CG	67	f/d lt,fo	2054	VAJ		lrG
D -NDB Zweibruecken	3	ppc/ms	435	`ZBN`		hb31
D -NDB Zweibruecken	7	ppc	435	`ZBN`		nr76
D -GAF Landsberg	6	ppc/ms	5687	DHO23		hb31
DNK-NDB Aalborg	70	f/d lt,ppc	398	`GL`		nr76
E -Coruna R.	39	cd/IRC,vc	1698		1000 w	pt53
EGY-Serapeum Marine R.	43	PPC,vc/vc,USD	12670,5	SUZ	500 w	pt53
FIN-NDB Kangasniemi	14	ppc via c/a	331	`KAN`		nr76
FIN-NDB Kuopio/Kurki	70	f/d lt,ppc,i	310	`KUR`		nr76
FIN-NDB Mikkeli	14	ppc (direct)	346	`MI`		nr76
FIN-NDB Rovaniemi	77	ppc (direct)	377	`PA`		nr76
FIN-NDB Kauhava	70	ppc (direct)	361	`RO`		nr76
FIN-NDB Rovaniemi/Torano	77	ppc (direct)	416	`TOR`		nr76
FIN-Turku R.	21	lt,ppc	2182	OFK		nr76
F -NDB Avord	28	lt via military c/a	306	`AV`		nr76
F -NDB Bray-sur-Seine	14	ppc via civ. c/a	277	`BRY`		nr76
F -NDB Paris/Charles d.G14	14	ppc via civ. c/a	370	`CGZ`		nr76
F -NDB Calvi	21	ppc (direct)	375	`CV`		nr76
F -NDB Castres-Mazamet	14	ppc (direct)	356	`CVU`		nr76
F -NDB Villacoublay	28	lt via military c/a	315	`HOL`		nr76
F -NDB Marseille/Provence7	7	ppc (direct)	406	`MJ`		nr76
F -NDB Solenzara	28	lt via military c/a	349,5	`SZA`		nr76
F -CROSS Corsen	14	ppc,i	2182			nr76
F -CROSS Med,La Garde	14	ppc,lt,i	2182			nr76
G -Wick R.	14	cd,lt,ppc	2182			nr76



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GRC-Athens R.	41	f/d lt,i f/up	2182				1rg
GRC-Iraklion R.	17	lt/vc,USD back(Athen)	2799	SVH		1500 w	pt53
HOL-NDB Maastricht	14	ppc	339	ZL			nr76
I -Compamare Civitavecchia	43	lt/ms	6815				hb31
I -Compamare La Spezia	24	cd/ms	6815				hb31
I -Compamare Mazara del Vallo	24	ppc/ms	6815				hb31
I -Compamare Messina	35	ppc/ms	6815				hb31
I -Compamare Milazzo	53	lt/ms	6815				hb31
I -Compamare Rimini	33	ppc/ms	6815				hb31
I -Compamare Termoli	43	ppc/ms	6815				hb31
I -Compamare Trapani	27	ppc/ms	6815				hb31
I -Guardia Costiera Ancona	14	ppc/ms	6815		ICI07		
hb31							
I -Guardia Costiera Genova	69	lt,ppc/ms	6815		ICI01		hb31
I -Guardia Costiera Fiumicino	39	folder,ppc/ms	6815		ICI03		
hb31							
I -Guardia Costiera Napoli	40	ppc/ms	6815		ICI04		hb31
I -Guardia Costiera Ravenna	12	ppc/ms	6815		ICI08		hb31
I -Guardia Costiera Reggio Calabria	23	ppc/ms	6815		ICI05		
hb31							
I -Guardia Costiera Trieste	22	lt,ppc/ms	6815		ICI10		hb31
I -Nucleo Aereo Guardia Cost.Pescara	75	ppc/ms	6815		NA3		hb31
I -Locamare Pantelleria	15	ppc,logb.extr./ms	6815				hb31
I -NDB Roma/Fiumicino	28	ppc	421		FN		nr76
I -NDB Teano	28	ppc (via Fiumicino AP)	316		TEA		nr76
INS-Makassar R.	57	f/d lt via Jakarta	12682,5		PKF		1rg
IRL-NDB Dublin	14	ppc,lt,i	397		OP		nr76
IW -M/V Guardia Costiera Bannock	28	lt,info,photo/ms	6815		IGUT		hb31
J -Tokyo TS	48	cd,info,st/ms	8000		JJY		hb31
JOR-ALIA Base,Amman	14	ppc(posted in Germany)	9003				nr76
MAK-NDB Skopje	21	lt,ppc	295		PT		nr76
NGR-Niamey Aero	25	PPC/2IRC,vc	8903			6000 w	pt53
NOR-NDB Bodo/Fleinvaer	45	ppc via c/a	374		FLV	100 w	mo76
NOR-NDB Brodr. Tjostheim	45	ppc via c/a	333		OPA	100 w	mo76
NOR-NDB Rennesoy	45	ppc via c/a	378		RSY	50 w	mo76
NOR-NDB Orland/Tarva	45	ppc via c/a	349		TAR.	100 w	mo76
NOR-NDB Varhaug	45	ppc via c/a	319		VAR.	100 w	mo76
NOR-NDB Vangsnes	45	ppc via c/a	404		VNG	100 w	mo76
NOR-NDB Fagernes/Leirin	70	certificate,ppc via c/a	342		LL		nr76
NOR-NDB Bergen/Omastrand	70	certificate,ppc via c/a	326		OMA		nr76
NOR-NDB Alta	28	ppc,lt,tie-holder(!)	330		TV		nr76
PNR-Intelmar R.	44	cd,vc/vc,USD	12699		HPP		pt53
POL-LDOC LOT Warszawa	21	lt,ppc	8924				nr76
POR-NDB Lisboa/Caparica	21	ppc	389		CP		nr76
S -Gotland Rescue	1	e-mail verie for e-mail report-				cd 2 days later	
5680 1000 w							mo76
S -Tingstaede R.	18	f/d cd	2768		SAE	10000 w	1rg
S -NDB Bacchus	14	ppc via c/a	416		BCS		nr76
S -NDB Oskarshamn	14	ppc via c/a	325		DH		nr76
S -NDB Vaesteras/Hasslo	42	ppc via c/a	333		LE		nr76
S -NDB Gothenburg	42	ppc via c/a	369		NL		nr76
TCD-N'djamena Aero	28	PPC/vc,IRC				5000 w	pt53
TWN-Taipei R.	32	f/d lt,i f/up	13077		BVI		1rg
TWN-Taipei R.	423	lt,PPC,vc/vc,USD(back)	8722		BVA	10000 w	pt53
USA-ARINC New York	32	lt,cd,PPC,/vc,USD	6640		KEA5	5000 w	pt53
USA-SILVAIR Miami	15	PPC,i,st/vc,USD	6637				pt53

ppc=prepared card, lt=letter, i=information, fo=photo, sti=sticker, vc=viewcard, irc=international reply coupon, ms=mint stamps, rp=return postage, sked=schedule, sase=self addressed and stamped envelope, sae=self addressed envelope, f=folder, f/d full detailed, USD=US Dollar, c/a=central address

Membership and Money corner:

Fee received from fmI. Mny txn! Due to renew for Peter, pcG.

Addresses/Infos/Veri-signers:

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Solved NDB`s by mo76:

BTH 373 Barth/D DZ 287,5 Dziwnow/POL OPA 333 Brodr.  
Tjostheim/Stavanger/NOR.  
ZL 265 Zolochov/UKR.(ex ZL-378)

COMPAMARE: Compamare stations were reported in Italian and mostly replied in Italian. Addresses usually: Capitaneria di Porto, Sezione Operativa, postal code + location, for ICI. stations add `Guardia Costiera Italiana`. Hardly any detailed addresses given in replies.

IHMV (see Albania) was sent via Trieste Coast Guard. They were in contact with them.

IGUT CP451 `Bannock` belongs to Capitaneria di Porto di Genova/Guardia Costiera Italiana. (hb31)

Gander Aero: v/s Glenn Locke - Gander IFSS (lrG)

Prince Rupert CG/VAJ: v/s Robert Crooks (lrG)

Ny Capetown: v/s S.J. Jacobs, Chief Petty Officer (lrG)

Athens R.: 99 Kifissias Ave., GR- 15181 Maroussi, Athens (v/s I. Troulis, Manager) (lrG)

Makassar R./PKF: Direktorat Jenderal Perhubungan Laut, Direktorat Kenavigasian, Jl. Merdeka Barat No 8 Lt 13, Gedung Karya, Jakarta (lrG)

Argentina R./LSD836: Estacion Costera Argentina Radio, Espinosa 1045, RA-1405 Buenos Aires (phone: 54-1-5858000 fax: 54-1-5858003) (nr76)

NDB Aalborg/GL: Statens Luftfartsvaesen, Teleteknisk Tjeneste, Aalborg Lufthavn, bygn. 228, DK- 9400 Norresundby (v/s Leif Christensen) (nr76)

NDB Kuopio/KUR: Ilmailulaitos, CAA, Kuopion Lentoasema/Kuopio Airport (zip code for Kuopio is FIN-70110)(v/s Raimo Penttinen, Technical Supervisor)(nr76)

F-NDB`s military c/a: Systemes de Surveillance, d'Information et de Communications, ERGE 10.538, Base Aerienne 123, F- 45037 Orleans Air (nr76)

F-NDB`s civilian c/a: Service de l'Information Aeronautique, Le Chef du Department Systemes-Developpements-Réseaux, F- 91205 Athis-Mons Cedex (nr76)

CROSS Med, La Garde: Centre Regional Operationnel de Surveillance et de Sauvetage, Secteur Mediterranee Fort Ste. Marguerite, B.P.69, F- 83953 La Garde Cedex (nr76)

NDB Zweibruecken/ZBN: Flugplatz Zweibruecken GmbH, Gebaeude 391, D- 66482 Zweibruecken (nr76)

NDB Skopje/PT: Alexander Kirjazi, Partizanska 125/1-17, 91000 Skopje, Republic of Macedonia (nr76)

NDB Alta/TV: Luftfartsverket Finnmark, Alta Lufthavn, Postboks 2070, N-9501 Alta (v/s Kjell-Viggo Lovhaug, Avdelingssjef Elektrotekniske Tjenester (nr76)

NDB Maastricht/ZL: Maastricht Aachen Airport, Luchtverkeersbeveiliging, Vliegvelddweg 16, NL-6191 SB Beek (nr76)

LDOC LOT Warszawa: Polskie Linie Lotnicze `LOT` S.A., Sluzba Centrum Operacyjnego, ul. 17 Stycznia 39, PL- 00-906 Warszawa (nr76)

S-NDB`s: BCS and DH were confirmed via Arlanda AP; AP, LE and NL were forwarded by Arlanda to Luftfartsverket, Swedish CAA, Vikboplan 11, S- 60179 Norrkoeeping (nr76)

Taipei R/BVA: Chunghwa Telecom Co. Ltd., Long Distance & Mobile Business Group 52, Chin-Shan S. Rd., Sec. 2, Taipei, Taiwan 106 (pt53)

Alger R./7TA: Ministere des Postes et Telecommunications, Sous-Direction des Services Radioelectriques, Boulevard Salah Bouakouir, Alger (v/s= B. Boulaioune;

Le Chef de Centre)(pt53)

ARINC New York/KEA5: Aeronautical Radio INC., 613 Johnson Avenue, Bohemia, New York 11716, USA (v/s= Edwin S. Brooks, Training Analysis Coordinator)(pt53)

Serapeum Marine R./SUZ: Mr. Mohamed Amer, P.O.Box 86, Ismailia, Post-Office 41511, Egypt (pt53)

Addresses of the UK MRCC and MRSC stations can be found at:

<http://www.coastguard.gov.uk/hmcg/addres.htm> (pt53)

Inquiries Department:

OM Hans-Dieter (hb31) is looking for an address of Tallinn Resuce. Anyone?

## NEW PUBLICATIONS

Two book reviews by our former editor Reinhard Klein-Arendt. Many thanks, indeed!

Rainer Brannolte und wolf siebel `Spezialfrequenzliste 9kHz-30MHz`, issue

This brandnew edition of the SFL is considerably more comprehensive than its 1996/1997 predecessor. This is not such much due to a restructuring of this list; more or less it displays the `traditional` SFL format, i.e. introduction, frequency list, lists of abbreviations (of organisations and companies running the stations), callsigns and ITU identifiers. Finally the book contains a chapter by country order with a listing of those stations mentioned in the main list (with station name, callsign, where known addresses, and frequencies). The main chapter of the book is a very up-to-date (as I found it) list of Utility stations by frequency order, covering the spectrum from 16 kHz to 30 MHz - each entry contains frequency, callsign, station's name, ITU, modulation, station's specifics like mode of RTTY broadcasts a.s.o. The maritime and aero bands are covered comprehensively, the fixed bands extensively. While maritime and aeronautical stations can easily be documented in such a publication through readily available official sources, the quality of a list is mainly documented by the author's skills to put together bits and pieces of informations about stations in the `fixed bands` (where official documents are hardly to trace) and by his decision of what is up-to-date and what is not. Here the entries have

been carefully checked, it seems, and there appear no alibi infos on stations gone long time ago to push the size of the list. All the lists mentioned can also be used by readers not familiar with German.

What is new to this book and what is responsible partly for its extended size is the introduction, which has been written entirely in German. Beside the traditional introductory chapters about different Utility services (maritime mobile and the like) there are several interesting contributions by guest-authors about MARS stations and about the longwave band (ELF, VLF, LF), which becomes more and more attractive to certain users. Moreover the introduction contains a chapter on 111 easy to receive Utility stations and nets - the characteristics of each station are commented in a more relaxed and humoristic way, which shows that Utility DXing is not this kind of a serious and semi-religious pastime...

All in all this book contains such a wealth of well researched information useable for the beginner as well as the `Utility-athlet` that it should be regarded as a standard source of information. (Reinhard Klein-Arendt)

Gerd Klawitter, Wolfgang Behnke, Klaus Herold, Peter Manteuffel `100 Jahre Funktechnik in Deutschland. Funksendestellen rund um Berlin` (`A Hundred Years of Radio in Germany. Radiostations around Berlin`), Wissenschaft und Technik Verlag, Berlin 1997, pp. 234, DIN A4 size.

This book, written entirely in German, contains the history of the radio-stations in and around Berlin from 1897 to 1997. Each chapter, arranged in chronological order contains the history of one of these stations. The first chapter is a description of the first series of experiments with an antenna array for wireless radio on German territory in 1897. These experiments, conducted by the German physicians Adolf Slaby and Georg Wilhelm Count of Arco, took place in the church of Sacrow near Potsdam and are described in great detail, accompanied by `tourist informations` on how to reach the church by today's means of travel. This chapter is followed by a presentation of those men who mainly participated in the evolution of wireless communication (Marconi, Hertz a.s.o.). The next chapter contains a comprehensive history of the famous Nauen radiostation from 1906 to 1997, from which most radio experiments of the Telefunken company took place and whose high-powered transmitters in connection with gigantic radiotowers could reach corresponding stations overseas already in the years 1913/1914 (Sayville in Canada, Kamina in Togo and Windhoek in Southwest-Africa). In the following the other locations of importance through the century like Koenigswusterhausen, Zeesen, Burg, Wachenbrunn, Koepenick and so on are treated carefully and adequately. So it can be said that the text portion of the book contains all the informations necessary for an overview over those historic Utility- and Broadcasting stations in the Berlin region.

One of the most fascinating features of this book is the rich amount of historical black/white photos, which are reproduced in a technically brilliant manner. Each station portrait is accompanied by at least one of these photos; very often the texts are also illustrated by geographical maps, ground plans, technical diagrams (showing antenna constructions and/or the technical

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organisation of the station) and, e.g. in the case of Nauen, by detailed historical frequency listings and diagrams.  
 To sum up my impression of the book I can say that those readers who buy it for around DM 50 will get a valuable source of information, as the book keeps a very high standard in its textual and visual components. The high printing quality adds considerably to the value of this book. (Reinhard Klein-Arendt)

A big thanks for the famous work from (12) contributors: wk08, pt53 (your maritime logs will be in 6-98 / space problems!), zeTC, nr76, hb31, ti26, ibG, rk50, pcG, mo76, lrg, abNL

gd dx + 73`s

Andreas

EUROPEAN UTILITY NEWSLETTER 6-98

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*****
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* *
* Deadline: 20th of the month!!! *
*****
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Hi ute buffs,  
 here we are again with another EUNL. The pages are filled properly again.

N D B

659	2105	DM	UNID	?	id (4x=1min)	dmRU
670	2111	TA	Aktau		KAZ id	dmRU
696	2116	QL	Algasovo	RUS	id (inaudible on nominal QRG 694!)	dmRU
696	2118	BT	Alatyr		RUS id	dmRU
700	2121	AD	Moscow/Sheremetievo		RUS id	dmRU
705	2125	KI	UNID	?	id (4x=1min)	dmRU

F I X E D

2565	2020	?	M51 numbers station	?	cw-5FG, separated by msg nr	abNL
2591	2325	ARCHITECT	RAF	G	USB WX	abNL
2720	2307	FDE14	AF Contrexville	F	cw-vvv	abNL
2953	2150	SYN	Mossad	ISR	AM SYN2 broadcast	abNL
3147	2019		UNID	POL	?usb-chat in Polish	dmRU
3150	2300	PCD	Mossad	ISR	cw PCD txm	abNL
3175	2024	V	RUS Ny Khiva	UZB	cw-channelmarker	dmRU
3194,9	2114	R	Ny Ustinov	RUS	cw-channelmarker	abNL
3195	2023	R	Ny Izhevsk	RUS	cw-channelmarker	dmRU
3212,9	2057	?	Russian Air Defense	RUS	cw-BT990057???7?(time=UTC+4)	abNL
3213	2100	?	M10 numbers station	?	cw-555 783 14 961 35==5FG	abNL
3300,5	1847	FDI8	AF Nice	F	cw-vvv vvv vvv de fdi8	mo76
3314	2120	HEP3	Kantonspolizei Zuerich	SUI	cw-vvv marker	abNL
3321,8	2115	R	Ny Ustinov	RUS	cw-channelmarker	abNL
3768,5	0641	FDC	AF Metz	F	cw-vvv vvv vvv de fdc fdc	mo76
3814	2040	FDG	AF Bordeaux	F	BAUDOT 50 Test tape	abNL
3837,9	2057	?	Russian Air Defense	RUS	cw-BT990056???8?(time=UTC+4)	abNL
4038	2009	?	M51 numbers station	?	cw-5FG, separated by msg nr	abNL
4041,5	1803	?	Unid	?	clicking sound 24h per day	abNL
4073	2315	?	Unid `time` station	?	cw-Transmits time in UTC+4.	

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4447	2043	POU	Unid NATO(?)tact. net.	?	Is one minute ahead of DCF77	abNL
			nationalities. I heard Dutch,German,Italian,French,Spanish+English accents		Stns M4U,9YO,9YE USB Various	abNL
4460	2200		Mossad	ISR	AM FTJ	abNL
4503	2215		Unid `time station`	?	cw-Transmits time in 4 digits (UTC+4) Moved from 4073 kHz	abNL
4515,4	1848	FDG	AF Bordeaux	F	cw-vvv vvv vvv de fdg fdg	mo76
4557,8	2020	P	RUS Ny Kaliningrad	KAL	cw-Channelmarker	abNL
4557,9	2020	C	Ny Moscow	RUS	cw-Channelmarker	abNL
4557,9	2020	S	Ny Arkhangelsk	RUS	cw-Channelmarker	abNL
4645	2209	V	Ny Khiva	RUS	cw-channelmarker	abNL
4690,5	1137	?	Unid	?	clicking sound	abNL
4753,5	1645	FDI22	AF Narbonne	F	cw-vvv	pcG
4970	1915		UNID	?	cw-5FGs,each group rep.twicemRU	
5015,5	1840		RUS AF?	RUS?	cw-time marker (UTC+4)	dmRU
5017	2000	?	M1 numbers station	?	cw-463 372 40 + 5FG	abNL
5025	1715	FDI8	AF Nice	F	cw-vvv	pcG
5072	0600	?	Russian counting stn	RUS	USB var. c/s +10-digit msgsabNL	
5144,5	2020	KYF	Dutch Army exercises	HOL	USB Stns in the net: KYF,KFF,	
		EUN,KNN,RNM,HNM,MKO,LFF,MRU	On-line encrypted RTTY on 5146 kHz			abNL
5153,8	2024	P	RUS Ny Kaliningrad	KAL	cw-Channelmarker	abNL
5153,9	2024	C	Ny Moscow	RUS	cw-Channelmarker	dmRU+abNL
5153,9	2024	S	Ny Arkhangelsk	RUS	cw-Channelmarker	abNL
5170	1947	CIO	Mossad	ISR	AM CIO2 txm Also at 2345UTC	abNL
5205	1948	SNJ30	Unid	?	cw 5FG `de SNJ30`	abNL
5206	0720	CONTROL	RNY trainings net	G	USB Control w/KA, KN, etc	abNL
5212	2019	FDI8	AF Nice	F	cw-vvv marker	abNL
5230	2049	CIO	Mossad	ISR	AM CIO2 broadcast	abNL
5230	0017	MIW	Mossad	ISR	AM MIW 2 txm	abNL
5240,5	0800	FDG	AF Bordeaux	F	USB lundi mardi etc testtape	abNL
5245	1959	MRK83	RNY Cadets	G	USB w/MRC01	abNL
5256	2019	?	Unid	?	cw 5LG in Cyrillic,also 5FG	abNL
5289	1950	?	Russian Lady	RUS	AM in progress Ended w/027	abNL
5322	2017	FDI22	AF Narbonne	F	cw-vvv marker	abNL
5340	1927	0	British army net	G	USB Net Control `zero` w/0C,0D, J10, J30, L0C, L12, L13	abNL
5342	0642	FDY	AF Orleans	F	cw-vvv	pcG+mo76
5474	1800	?	M1 numbers station	?	cw-id463 End of the monthtxm	abNL
5708	0537	2VE	UNID	?	OM F wkg Armor	mo76
5708	0537	Armor	Ny Brest Loperhet Atla	F	YL F w/ 2VE, `6 heures zulu`	mo76
5709	1900	VDE	M29 numbers station	?	cw-vvv VDE + 5FG	abNL
5710	1903	VDE	UNID	?	cw-vvv vvv de vde vde vde	mo76
5745	2100	?	Lincolnshire Poacher	CYP	USB id 09828 // 6959 kHz	abNL
6390	2310	R	Ny Izhevsk	RUS	cw-channelmarker	dmRU
6815	0559	NA3	Nucleo Aereo Guardia C.	I	OM It `Orca due, NA3`	mo76
6815	0559	Orca 2	UNID	IW	OM It `NA3, Orca due`	mo76
6815	0604	NA1	Nucleo Aereo Guardia C.	I	OM It c/ Compamare Molfettamo76	
6815	0605		Compamare Mazara d. Valo	I	OM It w/ Compamare Molfettamo76	
6815	0605		Compamare Molfetta	I	OM It wkg Compamare Mazara mo76	
6815	0606	ICI	Guardia Costiera Roma	I	OM It `NA1 da ICI`, wkg	mo76
6815	0611		Compamare Termoli	I	OM It c/ Compamare Molfettamo76	
6815	0612		Compamare Trapani	I	OM It w/Locamare Pantelleriao76	
6815	0612		Locamare Pantelleria	I	OM It w/ Compamare Trapani	mo76
6815	0613	ICI04	Guardia Costiera Napoli	I	OM E/It wkg NA1	mo76
6815	0618	ICI13	Guardia Costiera Cagliari	I	OM E/It wkg NA1	mo76
6815	0621	ICI06	Guardia Costiera Bari	I	OM E/It w/Compamare Termolimo76	
6815	0624	ICI07	Guardia Costiera Ancona	I	OM E/It w/Compamare Termolimo76	
6815	0627	ICI10	Guardia Costiera Trieste	I	OM E/It w/ ICI Zero ...	mo76
6815	0629	ICI08	Guardia Costiera Ravenna	I	OM E/It w/Compamare Termolimo76	
6815	0636	ICI11	Guardia Costiera Catania	I	OM E/It clg NA1	mo76
6815	0640		Compamare Taranto	I	OM It clg IHZA (3x)	mo76
6815	0711	ICI01	Guardia Costiera Genova	I	OM E/It wkg IOCI05	mo76
6815	0711	ICI05	Guardia Costiera Reggio	I	OM E/It wkg ICI01	mo76
6815	0937		Compamare Civitavecchia	I	OM E/It clg ICI09	mo76
6815	1537	IHMV	M/V Giulio Ingianni	IW	OM It clg ICI	mo76
6815	1545	IHWG	UNID	IW	OM E clg ICI	mo76
6815	1604		Compamare Rimini	I	OM It clg ICI	mo76
6815	1714	Orca 5	UNID	IW	OM It clg NA1	mo76

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6815	1723	Orca 6	UNID	IW	OM It clg ICI	mo76
6840	2000		Mossad	ISR	AM EZI	abNL
6844,5	2021	FDC	AF Metz	F	cw-vvv	pcG+dmRU
6871	2040	HEP7	Zurich Police	SUI	cw-vvv	pcG
6900	2000	?	Russian Man	RUS	AM Id 122 + 5FG	abNL
6959	1900	?	Lincolnshire Poacher	CYP	USB Id 84928	abNL
6971	2000	?	Counting station (E5)	?	USB Id 013,10-count,dashes	abNL
6992,5	1020	MFJ04	RNY Cadets	G	USB:MFP34,MFP29,MFM01,MFM38	abNL
7038,8	1951	P	RUS Ny Kaliningrad	RUS	cw-Channelmarker	abNL
7038,9	1910	C	Ny Moscow	RUS	cw-Channelmarker	abNL
7335	0644	FDI8	AF Nice	F	cw-vvv vvv vvv de fdi8	mo76
7663,5	0645	FDG	AF Bordeaux	F	cw-vvv vvv vvv de fdg fdg	mo76
7664	2049	RIW	Ny Khiva	UZB	CW tfc ..de riw..	mo76
8110	1910	?	Numbers station M14	?	cw351 834 834 25 25 = = 5FG	abNL
8143	1645	FDG	AF Bordeaux	F	cw-vvv	pcG
8231	1900	?	M53 numbers station	?	cw-vvv CQ 747 259	abNL
8494,8	2027	P	RUS Ny Kaliningrad	KAL	cw-Channelmarker	abNL
8494,9	2028	C	Ny Moscow	RUS	cw-Channelmarker	abNL
8971	1007	Z1K	RAF UKADGE PH-channel	G	USB Z1K, 70T, NUKO`s etc	abNL
9185	2041	HEP9	Kantonspolizei Zuerich	SUI	cw-vvv marker	abNL
10315	1257	DHN66	NATO Geilenkirchen	D	OM E, id `Sixty six` wkg,wx	mo76
10407	1625	VL8IPS	IPS Beacon	AUS	cw-id + data	ai47
10871,8	2030	P	RUS Ny Kaliningrad	KAL	cw-Channelmarker	abNL
10871,9	2030	C	Ny Moscow	RUS	cw-Channelmarker	abNL
10871,9	2030	S	Ny Arkhangelsk	RUS	cw-Channelmarker	abNL
11545	1900	?	Lincolnshire Poacher	CYP	USB id 84928	abNL
11545	1500	?	Lincolnshire Poacher	CYP	USB id 72483	abNL
11545	1700	?	Lincolnshire Poacher	CYP	USB id 38287	abNL
12056	1200	?	Cherry Ripe	?	USB too weak to copy id	abNL
13375	1500		Lincolnshire Poacher	CYP	USB,id 06805//12603//11545	abNL
14000	1657		Numbers station E15	?	USB FRANK YOUNG PETER QRU	
					Started 3 minutes early	abNL
14391,5	2017	NNN0YNR	MARS Milford,MI	USA	wkg NNN0CXN	ai47
14391,5	2017	NNN0CXN	USS Portland	IW	wkg NNN0YNR phone patch	ai47
14391,5	2038	NNN0PSX	MARS Nashville,GA	USA	wkg NNN0CUO	ai47
14463,5	2100	NNN0CTB	USCGC Venturous	IW	wkg NNN0NIG	ai47
14487	1100		Lincolnshire Poacher	CYP	USB id 82928 heavily jammed	abNL
14487	1200	?	Lincolnshire Poacher	CYP	USB id 29811	abNL
14487	1600	?	Lincolnshire Poacher	CYP	USB id 71231	abNL
14487	1800	?	Lincolnshire Poacher	CYP	USB id 01548	abNL
14920	1400		Russian Man numbers stn	RUS	AM Id 683 + 5FG	abNL
15624	1000	?	Cherry Ripe	?	USB too weak to copy id	abNL
16331,8	1202	P	RUS Ny Kaliningrad	KAL	cw-Channelmarker	abNL
16331,9	1202	S	Ny Arkhangelsk	RUS	cw-Channelmarker	abNL
16331,9	1202	C	Ny Moscow	RUS	cw-Channelmarker	abNL
20048	0929	C	Ny Moscow	RUS	cw-channelmarker	abNL

## M A R I T I M E

1677	0035	EJM	Malin Head R.	IRL	USB,E,mv,nav. warnings	pt53
1689	2353	EAL	Las Palmas R.	CNR	USB,S/E,tfc-list	pt53
1710	1937	SDJ	Stockholm R.	S	USB,E/Sw.,gale-warning	pt53
2182	2233	OSU	Oostende R.	BEL	USB,E/Nl,QSY 2761	pt53
2182	2351	EAL	Las Palmas+Arrecife	CNR	USB,S/E,ID QSY 1689 + 1644	pt53
2182	2145	FFU	Brest-le-Conquet R.	F	USB,E/F,mayday-Relay	pt53
2182	2234	GCC	Cullercoats R.	G	USB,E,QSY 2719	pt53
2182	0135	GKZ	Humber R.	G	USB,E,QSY 1869	pt53
2182	1933	GLD	Land`s End R.	G	USB,E,QSY 2670	pt53
2182	2347	IAR	Rome R.	I	USB,E/I,QSY 1888	pt53
2182	0033	EJM	Malin Head R.	IRL	USB,E,QSY 1677	pt53
2182	2135	LGZ	Farsund R.	NOR	USB,E,no tfc on hand	pt53
2182	2135	SPH	Gdynia R.	POL	USB,E/POL,ID, QSY 1692	pt53
2182	2206	CUL	Lisboa R.	POR	USB,E/P,ID QSY 2693	pt53
2182	1933	YQI	Constanta R.	ROU	E,ID by YL,QSY 2748	pt53
2182	2207	SAE	Tingstaede R.	S	USB,E,QSY 2768	pt53
2182	0506	DALS	Birgit Sabban	IW	OM E wkg La Coruña R	mo76
2182	0606	GGNV	Arco Avon	IW	OM E clg Humber R,QSY	mo76
2182	0606	GGWY(?)	UNID	IW	OM E clg Humber R,QSY ch R	mo76

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2182	0606		Oil Provider	IW	OM E Borgsten Dolphin	mo76
2182	0607	EJJM	UNID	IW	OM E Athinai R, EJJM, no joy	mo76
2182	0616		Grampian Fame	IW	OM E wkg Maersk Forwarder	mo76
2182	0616		Maersk Forwarder	IW	OM E wkg Grampian Fame	mo76
2182	0618	XU7GX	UNID	IW	OM E Athinai this is XU7GX	mo76
2182	0620	3VB	Bizerte R.	TUN	OM F/E/Ar Appel a tous les	mo76
2182	0633		Constanta R.	ROU	YL E Hello all ships	mo76
2182	0635	ILFI	Citta di Piombino	IW	OM It clg Civitavecchia R.	mo76
2182	0638	FQRQ	Cap Canaille	IW	OM F clg Grasse R.	mo76
2182	2041	P3LZ3	Sea Harmony	IW	OM E clg Haifa R.	mo76
2182	2053	GBKV	Evans Tide	IW	OM E wkg Stonehaven R.	mo76
2182	1905	UAMN	RV Geolog D. Nalivkin	IW	wkg Humber R.	ai47
2246	0510	C6...	Husky	IW	OM E wkg Olympic Supplier	mo76
2246	0510		Olympic Supplier	IW	OM E wkg Husky	mo76
2357,5	2159	OUA32	Ny Aarhus	DNK	cw-vvv marker	abNL
2377	1922		CROSS Corsen	F	USB,F,wx	pt53
2391	2304	PIUM	mv Ijsselborg	IW	USB w/mv Flinterzijl (PECX)	abNL
2391	2358	PCKH	mv Alert	IW	USB w/unid vessel	abNL
2391	0001	PCUN	mv Arrow	IW	USB w/mv Emmaplein	abNL
2391	0003	PDWO	mv Electron	IW	USB w/mv Arrow	abNL
2391	0004	PIDI	mv Valiant	IW	USB w/mv Emmaplein	abNL
2391	0006	PCVZ	mv Aletis	IW	USB w/unid vessel	abNL
2391	0009	PIFO	mv Veritas	IW	USB w/mv Klippergracht	abNL
2391	0012	PJQZ	mv Triton	IW	USB w/mv Emmaplein	abNL
2391	0017	PDKN	mv Claes Compaen	IW	USB w/mv Michel	abNL
2391	0017	PIFJ	mv Jaguar	IW	USB clg unid vessel	abNL
2391	0023	PEGD	mv Gelre	IW	USB w/mv Almenum	abNL
2391	0033	PEBN	mv Fenja	IW	USB w/mv Flinterland	abNL
2391	0038	PEKF	mv Griftborg	IW	USB w/unid vessel	abNL
2391	2348	PHFS	mv Rijnborg	IW	USB clg mv	abNL
2391	2350	PIMT	mv Waterman	IW	USB clg mv Fairplay 31	abNL
2391	2351	PHCX	mv Roelof	IW	USB clg mv Anna-S	abNL
2391	2355	PDRF	mv Doggersbank	IW	USB clg mv Bonita	abNL
2391	2352	PEFA	mv Gaastborg	IW	USB clg mv Delfborg	abNL
2592	2156	IPL	Livorno R.	I	USB Nav warn.	abNL
2656	2151	IPA	Ancona R.	I	USB Nav warn.	abNL
2705	2155	GKR	Wick R.	G	USB Phone patch	abNL
2824	2150	PCG	Scheveningen R.	HOL	USB Tape: PCG is not avail.	abNL
2829,5	2223	SPB28	Szczecin R.	POL	cw spb+SITOR	pt53
2830	2135	SVK	Kerkyra R.	GRC	USB,gr./E,wx	pt53
2843	2106	CUB	Madeira R.	MDR	USB,E/P tfc-list	pt53
4303	2004	OXZ	Lyngby R.	DNK	cw-cq, tfc fer 9HIU3 etc	dmRU
4474	0628	IGRO	Procida	IW	OM E ICT, this is IGRO	mo76
4474	2044	IHBD	Bradano	IW	OM It wkg ICT	mo76
6357	2250	SAA	Karlskrona R.	S	cw-CQ QSX tape	abNL
6389	2311	CTP	Ny Oeiras	POR	cw-vvv	dmRU
6390	2308	AQP	Ny Karachi	PAK	cw-vvv	dmRU
6501	2351	NMN	USCG CAMSLANT Chesapeake	USA	USB Weather	abNL
8252	2229	LSD836	Argentina R.	ARG	USB,S,wkg vessel	pt53
8297	2208	AEN	UNID	USA	USB,E,clg AAC 2	pt53
			(may be AAEN, unkown US Army vessel		- nice catch, ed)	
8368	1845	9HK5	Ship	IW	cw clg IAR	pcG
8368	1340	9HA04	Arabella	IW	cw clg TAH	pcG
8368	2047	J8LE2	Ship	IW	cw clg TAH	pcG
8420,5	1444	HEC18	Bern R.	SUI	cw-hec+SITOR	pt53
8421	1445	OXZ	Lyngby R.	DNK	cw-oxz+SITOR	pt53
8426,5	2115	WCC	Chatham R.	USA	cw	h171
8437	2110	4XZ	Ny Haifa	ISR	cw	h171
8444,5	0115	KFS	Palo Alto R.,CA	USA	cw	h171
8445,5	0110	WLO	Mobile R.,AL	USA	cw	h171
8448	0040	A9M	Bahrain R.	BHR	cw	h171
8450	1440	SAA	Karlskrona R.	S	cw-cq mkr	abNL+pcG
8454	0505	A9M	Bahrain R.	BHR	cw	h171
8455	0110	XSQ	Guangzhou R.	CHN	cw	h171
8459	0040	LSD836	Argenina R.	ARG	cw	h171
8473,5	0035	A7D	Doha R.	QAT	cw	BNL+dmRU+h171
8475,5	0030	FUX	F Ny Le Port	REU	cw	h171
8476	1933	9VG56	Singapore R.	SNG	cw-cq	dmRU

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8479	0030	JCU	Choshi R.	J	CW		h171	
8479	2145	HLJ	Seoul R.	KOR	CW		h171	
8484	2055	HLF	Seoul R.	KOR	CW		h171	
8496	0105	CLA20	Habana R.	CUB	CW		h171	
8506	2225	XSX	Keelung R.	TWN	CW		h171	
8508	2001	JFM	Muroto Fisheri R.	J	CW	msg 5 min.	h171	
8510	1617	J2A8	Djibouti R.	DJI	CW	vvv cq de j2a8 qsx	pt53	
8511	1530	XSW2	Taichung R.	TWN	CW	cq qsx	pt53	
8514	2310	WLO/KLB	Mobile R.,AL	USA	CW		h171	
8514	0015	XSQ	Guangzhou R.	CHN	CW		h171	
8522	2140	9WW20	Kuching R.	MLE	CW		h171	
8539	2255	VRX35	Hongkong R.	CHN	CW		pcG+dmRU+h171	
8541	0005	A9M	Bahrain R.	BHR	CW		h171	
8542	1880	PKX	Jakarta R.	INS	CW		h171	
8551,6	2113	CTP	NATO Oeiras	POR	CW	cq marker	abNL	
8557	0010	UHG2	Yuzhno-Sakhalinsk R.	RUS	CW		h171	
8558,4	0115	KFS	Palo Alto R.,CA	USA	CW		h171	
8568	1945	D3E51	Luanda R.	AGL	CW		h171	
8568,5	0140	XFM	Manzanillo R.	MEX	CW		h171	
8570	0010	WNU43	Slidell R.,LA	USA	CW		h171	
8571	2110	JNA	JMSA Tokyo Coast Guard	J	CW		h171	
8573	0030	CLA21	Habana R.	CUB	CW		h171	
8577	2112	HLO	Seoul R.	KOR	CW		pcG+h171	
8582	2345	XSN	Ningbo R.	CHN	CW		h171	
8582,5	0115	KLB	Seattle R.,WA	USA	CW		h171	
8585	2220	UFL	Vladivostok R.	RUS	CW		h171	
8586	0015	WCC	Chatham R.	USA	CW		h171	
8589	2100	HPP	Panama-Intelmar R.	PNR	CW		h171	
8590	2141	VTK	Ny Tuticorin	IND	CW	vvv (vy bad tone)	h171+dmRU	
8598	1946	OXZ	Lynby R.	DNK	CW	cq, tfc fer TCHI	dmRU	
8600	2110	XSV	Tianjin R.	CHN	CW		h171	
8601,3	0750	ZLO5	Ny Irirangi	NZL	CW		h171	
8602	2230	CWA	Cerrito	URG	CW		h171	
8604,2	1600	ZRH	Ny Capetown	AFS	CW		h171	
8607	2115	VIM	Melbourne R.	AUS	CW		h171	
8618	0240	KPH	San Francisco R.,CA	USA	CW		h171	
8619	2140	VRX32	Hongkong R.	CHN	CW		pcG+h171	
8624	1850	XSQ	Guangzhou R.	CHN	CW		pcG+h171	
8631	0200	XFQ	Salina Cruz R.	MEX	CW		h171	
8632	2030	XSW	Kaohsiung R.	TWN	CW		h171	
8634	2135	VTG6	Ny Mumbai	IND	CW		pcG+h171	
8634	0040	PPR	Rio de Janeiro R.	B	CW		h171	
8636	2200	HLW	Seoul R.	KOR	CW		h171	
8646	2240	VTP6	Ny Vishakapatnam	IND	CW		h171	
8646	0040	LPD86	General Pacheco R.	ARG	CW		h171	
8658	0010	ASK	Karachi R.	PAK	CW		pcG+h171	
8661	2235	XSQ	Guangzhou R.	CHN	CW		h171	
8665	0010	XSG3	Shanghai R.	CHN	CW		h171	
8680	2140	WSC	Tuckerton R.,NJ	USA	CW		h171	
8683,5	1506	LFI	Rogaland R.	NOR	CW	lfi+SITOR	pt53	
8685	1505	IRM	Roma Medico R.	I	CW	vvv qsx	pt53	
8686	1504	CNP	Casablanca R.	MRC	CW	cq, qsx	pt53	
8688	0012	WNU	Slidell R.	USA	CW		h171	
8688,5	2145	ZSC6	Capetown R.	AFS	CW		h171	
8691	0015	XST	Qingdao R.	CHN	CW		h171	
8698	0538	7TF6	Boufarik R.	ALG	CW		pcG+h171	
8700	1549	9AR	Rijeka R.	HRV	CW	vvv de 9ar	pt53	
8705	1505	RFA	Astrachan R.	RUS	CW	Telex TFC 50m	h171	
8705,4	1515	PKC	Palembang R.	INS	CW		h171	
8706	0020	JOS	Nagasaki R.	J	CW		h171	
8734	2344	SVN42	Athens R.	GRC	USB	Voice mirror	abNL	
8743	2339	SVN44	Athens R.	GRC	USB	Voice mirror	abNL	
8752	1700	YLQ	Riga R.	LVA	usb	instructions, qsx 4065 and		
8228	(there will be no CW/SITOR markers anymore -- YLQ will work the same way as Portuguese maritimes).....							dmRU
8764	2336	NMN	USCG CAMSLANT Chesapeake	USA	USB	Weather	abNL	
10192,5	1617	DRAO	FGS Luebeck	IW	OM	E/D wkg DHJ59	mo76	
12585	1501	NRV	USCG Agana	GUM	CW	nrw+SITOR	pt53	



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12610,5	1615	VCT	Tors Cove R.	CAN	CW		h171
12610,5	1732	RUF9	Krasnodar R.	RUS	CW	Blind-TFC	h171
12629	1435	KHF	Guam R.	GUM	CW	khf+SITOR	ai47+pt53
12629	1503	KHF	Guam R.	GUM	CW	id all 20 seconds,	SITORMo76
12695,5	1612	KFS	Palo Alto R.,CA	USA	CW		h171
12699	2355	HPP	Panama-Intelmar R.	PNR	CW		h171
12704	2312	WLO	Mobile R.	USA	CW		h171
12709	1555	A9M	Bahrain R.	BHR	CW		h171
12719,8	0530	ZLO	Ny Irirangi	NZL	CW		pcG+h171
12721	2010	SPH61	Gydnia R.	POL	CW	cq mkr	pcG
12729	2005	UVA	Gelendzhik R.	UKR	CW	cq mkr	pcG
12732	2107	USU	Mariupol R.	UKR	CW	cq marker	abNL
12735	1316	URL	Sevastopol R.	UKR	CW	CQ marker	abNL
12738,5	2355	PPR	Rio de Janeiro R.	B	CW		pcG+h171
12781,5	1625	9MB5	Ny Lumut	MLA	CW		h171
12800	1555	HSA	Bangkok R.	THA	CW		h171
12801	2109	TAH	Istanbul R.	TUR	CW	de TAH	abNL
12804	1313	YQI5	Constanta R.	ROU	CW	QSL BLIND msg	abNL
12808,5	1100	VTG7	Ny Mumbai	IND	CW		pcG+h171
12808,5	1520	KPH	San Francisco R.,CA	USA	CW		h171
12810	1055	UJE	Nizhnij-Novgord R.	RUS	CW		h171
12811,3	1400	HZY	ARAMCO Ras Tanura R.	ARS	CW		h171
12831	1645	3MB5	Mauritius R.	MAU	CW		h171
12843	1430	HLO	Seoul R.	KOR	CW		h171
12844,5	1430	KFS	Palo Alto R.,CA	USA	CW		h171
12847	2320	WCC	Chatham R.	USA	CW		h171
12856	1425	XSG	Shanghai R.	CHN	CW		h171
12864	1435	XSW	Kaohsiung R.	TWN	CW		h171
12879,5	2320	WSC	Tuckerton R.,NJ	USA	CW		h171
12885	1145	UFZ	Valdivostok R.	RUS	CW		h171
12886,5	1215	WLO	Mobile R., AL	USA	CW		h171
12923	1430	HLW2	Seoul R.	KOR	CW		h171
12925	1505	RFA	Astrachan R.	RUS	CW		h171
12933	1600	UFZ	Vladivostok R.	RUS	CW		h171
12935	1435	HLG	Seoul R.	KOR	CW		h171
12952,5	1550	VIP	Perth R.	AUS	CW		h171
12966,5	1415	A7D	Doha R.	QAT	CW		dmRU+h171
12967	1030	UJE	Nizhnij-Novgorod R.	RUS	CW		h171
12969	1450	SUH	Alexandria R.	EGY	CW		h171
12969	1640	XSV	Tianjin R.	CHN	CW		h171
12984	1525	4XZ	Ny Haifa	ISR	CW		h171
12988,5	2345	LPD88	General Pacheco R.	ARG	CW		h171
13002	2325	KPH	San Francisco R.,CA	USA	CW		h171
13020,4	1155	VRX60	Hongkong R.	CHN	CW		h171
13023	1512	D3E62	Luanda R.	AGL	CW		h171
13024	1530	A7D	Doha R.	QAT	CW		h171
13024	1840	ASK	Karachi R.	PAK	CW		h171
13024,5	1415	JFZ	Kushiro-Fishery R.	J	CW		h171
13024,5	2312	WLO	Mobile R.,AL	USA	CW		h171
13044	1155	VRX61	Hongkong R.	CHN	CW		h171
13057	0712	OMC	Bratislava R.	SVK	CW	de omc omc qsx 12 mhz k	mo76
13059	1954	EBA	Ny Madrid	E	CW	nav warnings in EE	dmRU
13062	1440	CLA32	Habana R.	CUB	CW		h171
13065	1002	ESP	Parnu R.	EST	CW	cq tfc list vy fast cw	ai47
13069,5	1951	JOS	Nagasaki R.	J	CW	cq	dmRU
13076,5	1950	JNA	JMSA Tokyo	J	CW	cq	dmRU
16812,5	1459	NRV	USCG Agana	GUM	CW	nrw+SITOR	pt53
16819,5	1900	NMN	USCG Cheasapeake,FL	USA	CW		h171
16825	1945	WCC	Chatham R.	USA	CW		h171
16836	0700	UFL	Vladivostok R.	RUS	CW		h171
16880	1315	XSQ	Guangzhou	CHN	CW		h171
16911,2	1250	JNA	Tokyo CG	J	CW		h171
16916,5	1220	XSG	Shanghai R.	CHN	CW		h171
16932	1245	7TF10	Boufarik R.	ALG	CW		h171
16966	1210	SVB6	Athens R.	GRC	CW	DE SVB	abNL
16969	1540	WLO	Mobile R.,AL	USA	CW		h171
16972	1510	WCC	Chatham R.	USA	CW		h171
16986	1220	CTP	NATO Oeiras	POR	CW	vuv marker	abNL

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17015	1209	UTQ	Kiev R.	UKR	cw-QSX marker	abNL
17016	,5	1520	KPH	USA	CW	h171
17021	,6	1212	TAH	TUR	cw-DE TAH	abNL
17025	0910	UPB	Providenia Bukhta	RUS	CW	h171
17026	1522	KFS	Palo Alto R.,CA	USA	CW	h171
17050	,4	1245	ASK	PAK	CW	h171
17066	,5	1250	A9M	BHR	CW	h171
17103	,2	0845	XSG	CHN	CW	h171
17132	1510	ZSJ6	Ny Capetown	AFS	CW	h171
17145	1218	LZW72	Varna R.	BUL	cw-DE LZW72	abNL
17147	1218	URL	Sevastopol R.	UKR	cw-CQ marker	pcG+abNL
17161	,3	0845	VIP5	AUS	CW	h171
17172	,4	1355	9MG11	MLA	CW	h171
17175	,2	1255	A9M	BHR	CW	h171
17184	,8	1550	KFS	USA	CW	h171
17199	1049	PCH60	Scheveningen R.	HOL	cw-cq, tfc list	dmRU
17227	,6	1245	ZLO	NLZ	CW	h171
17239	,7	1240	PKX	INS	CW	h171
22382	0845	NRV	USCG Agana	GUM	CW	h171

## A E R O

2941	2338		St.Petersburg Meteo	RUS	USB Volmet	abNL
2941	2350		Tyumen Meteo	RUS	USB Volmet	abNL
5517	1958		Tripolis Aero	LBY	USB,E,wkg Lybian 801	pt53
5568	0328	Avrora	Volgograd Aero	RUS	YL Ru clg UNID	mo76
5616	0259		Shanwick Aero	G	USB,E,wkg United 900	pt53
5658	2049		Jeddah Aero	ARS	USB,E,wkg Singapore Airline	pt53
5658	2056		Mumbai Aero	IND	USB,E,wkg Singapore 346	pt53
5680	1204		Kinloss Rescue	G	USB,E,wkg SRG	pt53
5680	1315		Kuressaare Rescue	EST	r/c w/ Gotland Rescue	ai47
5680	1307		Tallinn Rescue	EST	r/c w/ Gotland Rescue	ai47
5680	1307		Riga Rescue	LVA	r/c w/ Gotland Rescue	ai47
5680	1030		Gluecksburg Rescue	D	USB w/PC114 r/c	abNL
6550	1113	CG01	Coast Guard 01	AIR	USB w/CG Centre QRY	abNL
6604	2058		Gander Volmet	CAN	USB,E,mv,Volmet,ID	pt53
6604	2322		Gander Volmet	CAN	usb-wx Ottawa, Gander...	dmRU
6628	2053	CSY	Santa Maria Aero	AZR	USB,E,wkg Air Portugal	pt53
6676	2241		Bangkok Volmet	THA	USB,E,ID,Volmet	pt53
6693	2330		Syktyvkar Meteo	RUS	USB Volmet	abNL
6693	2335		Ekaterinburg Meteo	RUS	USB Volmet	abNL
6706	0945	GUYW	HMS Guernsey	IW	USB w/Hotel 19	abNL
6712	1412	FDE	AF Villacoublay	F	USB w/various aircraft	abNL
6715	1407	CWL88	RAF aircraft	G	USB w/BT9P msgs(UKADGE Pochn)	NL
6730	2340		Karaganda Meteo	KAZ	USB Volmet	abNL
6730	2345		Alma-Aty Meteo	KAZ	USB Volmet	abNL
6736	1019	7ZQ	RAF UKADGE CA-channel	G	USB 7CQ, C6T	abNL
6739	1020	ARCHITECT	RAF	G	USB WX	abNL
7870	0331	Avrora	Volgograd Aero	RUS	YL Ru wkg Shpora	mo76
7870	0331	Shpora	Rostov-na-Donu Aero	RUS	YL Ru wkg Avrora	mo76
7870	0435	Shtat	Sochi-Adler Aero	RUS	OM Ru wkg Arbat	mo76
7870	0518	Arbat	Moscow Aero	RUS	Ru	mo76
7870	0518	Kazachok	Nizhni Novgorod Aero	RUS	Ru	mo76
7870	0643	Arbat	Moscow Aero	RUS	YL Ru wkg Avrora	mo76
8819	2305		Aktubinsk Meteo	KAZ	USB Volmet	abNL
8819	2310		Karaganda Meteo	KAZ	USB Volmet	abNL
8819	2315		Alma-Aty Meteo	KAZ	USB Volmet	abNL
8819	2320		Tashkent Meteo	UZB	USB Volmet	abNL
8855	2316		Piarco Aero	TRD	USB,E,wkg Air France 2683	pt53
8855	2242		Cayenne Aero	GUF	USB,F,wkg Air France	pt53
8861	2256		Dakar Aero	SEN	USB,E,wkg Air France	pt53
8879	1910		Bombay Aero	IND	USB,E,wkg Air France 6434	pt53
8891	2338		Baffin Aero	CAN	OM E wkg Iceland Aero	mo76
8891	2338		Iceland Aero	ISL	YL E clg/wkg Baffin Aero	mo76
8903	0008		Ndjamena Aero	TCD	USB,E,wkg LH 575	pt53
8906	2337		New York Aero	USA	USB,E,wkg Speedbird 9653	pt53
8933	2203		Springbok SA Airways	AFS	USB,wkg Springbok 205	pt53
8939	2003	GG	NDB Moscow	RUS	cw-Operates on 290 kHz Audible	

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8939	1620	TQ	NDB Moscow	RUS	on volmet freq abNL cw-Operates on 468 kHz Audible on volmet freq abNL
8957	1904		Shannon Volmet	IRL	USB,E,wx,ID pt53
8974	2100		RAAF Perth	AUS	OM E wkg AF Sydney mo76
8974	2100		RAAF Sydney	AUS	OM E r/c w/Perth+Townsville mo76
8974	2100		RAAF Townsville	AUS	YL E wkg AF Sydney mo76
8974	2101		AF Auckland	NZL	r/c with Sydney, barely read mo76
8983	2130		UNID USCG	USA	USB,E,clg Rescue 1700+1705 pt53
8984	2117		UNID	?	USB,clg NouakchottR.-no joy pt53
8987,3	2102	MKL	RAF Pitrevie Castle	G	cw-de mkl,msgs pt53
10018	1651		LDOC Tarom	ROU	USB,Rum.,wkg a/c, wx pt53
10021	1657		Bombay Aero	IND	USB,E,wkg Bangladesh 029 pt53
10805	1754	SDJ	Stockholm R.	S	USB,E,wkg a/c 9810 pt53
11246	0249		UNID	?	OM Sp,..Quito and Colombia. mo76
11253	1926		RAF Volmet	G	USB,E,Volmet,ID pt53
11285	1437		Medan Aero	INS	w/ Colombo ai47
11285	1610		Kuala Lumpur Aero	MLA	wkg Transmile 5226 ai47
11285	1745		Colombo Aero	CLN	USB,E,wkg LH 779 pt53
11285	1747		Chennai Aero	IND	USB,E,wkg Singapore 346 pt53
11297	1405	PK	NDB St.Petersburg	RUS	cw-Operates on 342 kHz Audible via StPetersburg Volmet abNL
11297	1520		Kiev Volmet	RUS	USB Volmet abNL
11297	1525		Rostov Volmet	RUS	USB Volmet abNL
11297	1535		St. Petersburg Volmet	RUS	USB Volmet abNL
11297	1540		Moscow Volmet	RUS	USB Volmet abNL
11300	1748		Cairo Aero	EGY	USB,E,clg Tripoli pt53
11300	1749		Tripoli Aero	LBY	USB,E,wkg Cairo pt53
11306	2254		Flight Support Lima	PRU	wkg American 2155 ai47
11309	1946		New York Aero	USA	USB,E,wkg UNID a/c pt53
11366	1930		tent. VARIG	B	USB,P,tfc w/ UNID a/c, weak pt53
11387	1630		Sydney Volmet	AUS	USB,E,Volmet pt53
13264	1640		Shannon Volmet	IRL	USB,E,Volmet pt53
13270	1729		Gander Volmet	CAN	USB,E,Volmet pt53
13282	1715		Hongkong Volmet	CHN	USB,E,Volmet pt53
13282	1720		Auckland Volmet	NZL	USB,E,Volmet pt53
13342	1750	SDJ	Stockholm R.	S	USB,E, QSY 10805 khz pt53
17922	1212	Speedbird	British Airways	G	USB,E,wkg Caledonian 433 pt53
17946	2048		San Francisco Aero, CA	USA	YL wkg unid,tfc lrG
17946	1948		New York Aero, NY	USA	Phone patch for a/c 187 lrG
17976	1115	AJO	USAF Incirlik	TUR	OM msgs lrG
17976	1116	AJE	USAF Croughton	G	OM msgs lrG
17976	1353	AFS	USAF Offut, NE	USA	OM msgs lrG

## D I G I T A L

518	2105	5BA	Cyprus R.	CYP	Sitor-B,wx-rprts lrG
518	2147	SVK	Kerkyra R.	GRC	Sitor-B,wx-rprts lrG
518	2148	LGQ	Rogaland R.	NOR	Sitor-B,wx-rprts lrG
518	2243	9AS	Split R.	HRV	Sitor-B,wx-rprts,nav-warn. lrG
2474	2330	PBC32	Dutch Ny Goeree	HOL	BAUDOT 75 CARB abNL
2477	2327	SJPB	mv United Star	IW	SITOR-A100 situation report abNL
2607	2315	FUO	Ny Toulon	F	BAUDOT 75 RY abNL
2789	2320	FUE	Ny Brest	F	BAUDOT 75 RY abNL
2806	2318	IGJ41	Ny Augusta	I	BAUDOT 100 CARB abNL
2815	2317	IDR8	Ny Rome	I	BAUDOT 75 CARB abNL
3172,5	1937	IMB1	Roma Meteo	I	BAUDOT 50 Synops abNL
3196	1927	?	Prague Meteo	CZE	BAUDOT 50 Synops abNL
3210	1925	LYK	Klaipeda R.	LTU	SITOR-A 100 w/unid vessel abNL
4202,5	1835	UDHY	Russ ship	IW	ITA2/50/170 clg uiw pcG
4295	2129	HWN	Ny Paris	F	BAUDOT 75 Tests to FAAAPcG+abNL
4442,5	2126	?	Kiev Meteo	UKR	BAUDOT 50 Synops abNL
4875,9	1728		DCN UNID?	?	PICC/? s/ch crypto pcG
5100,2	2110		FF UNID?	?	ARQE3/192/400 idle/ qrm pcG
5256	1942	?	FAPSI	RUS	BAUDOT 75 Callup in CW Msg abNL
6727	1123	DHN66	NATO Geilenkirchen	D	BAUDOT 75 w/Magic 55 r/c abNL
6730	1329	DHJ59	Navy Wilhelmshaven	D	BAUDOT 75 w/N4J r/c + RATT abNL
7646	1545	DDH7	Hamburg Meteo	D	rtty,425/50,ry,ID pt53

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7822,2	2110	RFFA	FF Paris	F	ARQE3/200/400idle-to Dhahran	pcG
7975	1750	SPW	Warsaw R.	POL	SITOR-B,vvv cq de spw,tfc	pt53
8083	0020	RIJ75	Tashkent Meteo	UZB	FAX	h171
8140	0010	BMF	Taipei Meteo	TWN	FAX	h171
8176	0035	FZR81	Saint Denis Meteo	REU	RTTY 75	h171
8192	0040	9MR	Ny Johore Baharu	MLA	RTTY 50	h171
8453	2001	HWN	Ny Paris	F	ITA2/75/850 ry/sg test abNL	+pcG
8503,9	0025	NMG	USCG New Orleans	USA	FAX	h171
8538	0115	6WW	F Ny Dakar	SEN	RTTY 75	h171
8568	1948	FUV	F Ny Djibouti	DJI	RTTY 75	h171
8625,9	2005	GYU	Ny Gibraltar	GIB	ITA2/75/170 CARB msgs	pcG
9130	1713	MGJ	Ny Farslane	G	rtty,850/75	pt53
10314	0950	SNN299	MFA warsaw	POL	POL-ARQ 100, to Belgrade	pt53
10467,4	1445	--	Alger DOUANE	ALG	COQ/8 FF msgs - customs	pcG
10493	1023		MFA Bucharest	ROU	Rum-FEC 164.5,circulars	pt53
10651	1815	RFF	UNID FF	?	ARQE/184,6 cont idle	pcG
10802	1041	DFZG	MFA Belgrade	YUG	FEC-A-144,msgs,off	pt53
11416,8	1507	RFFVAY	FF Sarajevo	BIH	ARQ-M-200,ID,coded msgs	pt53
11453	1802	IMB3	Rome METEO	I	ITA2/50/850 cont met rprts	pcG
11471	1057		Pol Emb F oder MFA	?	POL-ARQ 100,msgs	pt53
11575	1100		UNID	?	POL-ARQ 50,encrypt. msgs	pt53
12587	1947	LZW54	Varna R.	BUL	SITOR/A wkg 9hu14	pcG
12599,5	2102	UAT	Moscow R.	RUS	SITOR-A100 w/unid vess.+cwabNL	
12701,5	2315	CKN	Ny Vancouver	CAN	RTTY 75	h171
12745,5	1105	JJC	Tokyo Meteo	J	FAX	h171
12832	1400		UNID	?	POL-ARQ,350/50,encr. msgs	pt53
12857	1705	6WW	F Ny Dakar	SEN	RTTY 75	h171
12883,5	1940		UNID	?	rtty,850/150 encrypt. msgs	pt53
12903,3	1530	RBSL	Ny Mumbai	IND	rtty,75/425,ID	pt53
13042,5	1422	FUV	F Ny Djibouti	DJI	RTTY 75	h171
13050	1900	UDK2	Murmansk R.	RUS	rtty,170/50 msgs,ID	pt53
14553,1	1345	U3H	F Emb Moscow	RUS	FEC-A-192,encrypted msgs,ID	pt53
14681	1235	V5G	MFA Bucharest	ROU	ROU-FEC164 to many emb.	abNL
14823	1430		FAPSI	RUS	BAUDOT 75 clg POU 11177+5FGabNL	
14912	1403	DFZG	MFA Belgrade	YUG	rtty,400/75 ry,ID	pt53
15848	1230		UNID	?	Spread21,102.7,1435 off	pt53
15946,5	1445	EAE220	MFA Madrid	E	SITOR-A,msgs	pt53
16185	1840	CLP1	MFA Habana	CUB	rtty,500/50,ry press,no ID	pt53
16832	1253	RLO	Ny St.Petersburg	RUS	BAUDOT50 On-line encr.msgs	abNL
16951,5	1235	6WW	F Ny Dakar	SEN	RTTY 75	h171
16971	1330	JJC	Tokyo Meteo	J	FAX	h171
17441,5	1544	5YE	Nairobi Meteo	KEN	rtty,850/100,wx,no ID	pt53
18040	1200	TCY4	AA Ankara	TUR	rtty,1300/50,Turk. nx	pt53
18254	1221	SUU	Cairo Meteo	EGY	rtty,850/100,wx,no ID	pt53
18648,5	1858		UNID	POL	SITOR-B,pol.,stock-exchange	pt53
19747,5	1420	6VU79	Dakar Meteo	SEN	rtty,425 /50,wx,no ID	pt53
19860	1153	MGJ	Ny Farslane	G	rtty,850/75	pt53

FRENCH MILITARY (INTERNAL) EXERCISES by pcG  
ARQE/72/400 (UNLESS STATED) APRIL 1998

FREQ	CID	RID	DAY	TIME	REMARKS
4875	UCF	UFC	THU/16	1620-2100	SOUGE de SOUGE C.D.V.
4875	UCF	UFC	FRI/17	0800-1500	MCA EXTRANS/ RFFEDFC de SOUGE
4875	UCF	UFC	SAT/18	1625-?	C.D.V. msg
4963	-	-	THU/16	1615-2100	idle nil tfc
4963	UBF	UFB	FRI/17	1030-1230	SOUGE de SOUGE/ C.D.V.
5096	UFC	UCF	WED/15	1630-2100	RFFEDFB de RFFEDFC/fm BRIGATRANS0 DEUX to BRIGATRANS UN/ MCA EXTRANS
5096	UFC	UCF	THU/16	0800-1330	EX PROJEX/MCA EXTRANS msgs
5420	UFC	UCF	THU/16	1400-1600	EX MCA EXTRANS msgs
5420	UFC	UCF	FRI/17	1500-1855	RFFEDFC de RFFEDFC/ C.D.V.
5224	UFB	UBF	WED/15	2200-?	EX PROJEX msgs
5224	UFB	UBF	THU/16	0830-2130	" "
5224	UFB	UBF	SAT/18	0830-1625	SOUGE de RFFEDFB/ EX msgs ZID/ZIC
5732.5	-	-	SAT/25	1830-	Idle - back on after long absence!
5732.5	-	-	SUN/26	DAILY	Idle - probably 24hr but night fade

5746 UFB UBF FRI/17 1855-? EUNL1998 C.D.V.

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
ALG-Tamanrasset Aero	85	ppc via Algier	8894		400 w	ai47
ARG-Argentina R.	27	p/d Globe cd/e-mail	8459	LSD836		dmRU
AUS-Perth R.	113	f/d lt	8521	VIP		lrG
BHR-Bahrain R.	28	p/d Globe cd/e-mail	8448	A9M		dmRU
BLR-TS Molodeshno	67	f/d cd via Moscow	25.1	RJH69		ai47
BRU-NDB Brunei	29	ppc (hrd in THA)	318	BR	2000 w	ai47
CAN-Fundy CGR.	14	f/d lt for fax-rprt	2749			lrG
CNR-Arrecife R.	102	f/d cd	2182		1000 w	ai47
CNR-Las Palmas R.	329	f/d cd f/up via Madrid	1689	EAL		lrG
E -Cabo Gato R.	329	f/d cd f/up via Madrid	1767			lrG
E -Cabo Penas R.	329	f/d cd f/up via Madrid	1677	EAS		lrG
E -Madrid R.	33	f/d cd,i/vc,IRC	8682	EAD	10 kw	dmRU
EST-Kuresaare Rescue	8	ppc,lt,postcard,fo	5680		600 w	mo76
EST-Kuresaare Rescue	16	ppc,lt,vc	5680		600 w	ai47
EST-Tallinn Rescue	13	ppc,ham cd for fax rpt	5680		600 w	mo76
EST-Tallinn Volmet	12	f/d lt/e-mail	4645		1 kw	dmRU
F -CROSS Med,La Garde	85	n/d lt,i	2182		1000 w	ai47
G -NDB Shoreham	332	f/d lt,sae f/up	332	SHM		lrG
GUM-Agana R.	9	cd for e-mail rpt	12629	KHF		mo76
GUM-Guam R.	16	f/d cd via GW	12629	KHF		ai47
HOL-Netherlands CG	50	f/d lt,sti`s	3673	PBK		lrG
I -Compamare Mazara del Vallo	14	ppc	6815		100 w	ai47
I -Compamare Manfredonia	22	ppc	6815		250 w	ai47
I -Guardia Costiera Fiumicino	28	ppc	6815	ICI03	100 w	ai47
I -Guardia Costiera Reggio Calabria	30	ppc	6815	ICI05	150 w	ai47
I -Guardia Costiera Genova	20	ppc,lt,sti`s	6815	ICI01	1000 w	ai47
I -Guardia Costiera Napoli	25	n/d lt,vc`s,fo	6815	ICI04		ai47
ISL-Hornafjoerdur R.	??	cd via Gufunes,i	2182	TFT		lrG
IW -FGS Loreley	83	ppc	3116	DRGP	100 w	ai47
IW -FGS Koblenz	18	ppc,sti	3116	DREL	100 w	ai47
IW -FGS Sulzbach-Rosenb.	24	ppc	4145.5	DREU	150 w	ai47
LVA-Riga Rescue	118	f/d lt	5680			lrG
NOR-Bergen R.	29	ppc	2182	LGN	1000 w	ai47
NZL-Awanui R.	9	cd after e-mail f/up	8417	ZLA		mo76
OMA-NDB Izki	27	ppc,vc`s (hrd in UAE)	333	NIZ	400 w	ai47
RUS-Petrozavodsk R.	105	ppc,vc	8570	RUA8		ai47
RUS-Rostov Volmet	90	ppc,lt	11297		1000 w	ai47
S -Gotland Rescue	8	cd	5680			lrG
SNG-NDB Sinjon	32	ppc (hrd in THA)	265	SJ	1700 w	ai47
SNG-Singapore Aero	25	ppc/USD,vc	6556		5000 w	pt53
TGO-Lome Aero	385	ppc,lt '87 rprt, f/ups	6756	5VX	1000 w	ai47
THA-NDB Khon Kaen	30	ppc,lt (hrd in THA)	393	KN	500 w	ai47
THA-NDB Phitsanulok	33	lt,vc (hrd in THA)	263	PL		ai47
UAE-NDB Abu Dhabi	26	ppc,lt (hrd in UAE)	412	AN		ai47
UAE-NDB Bateen	26	ppc,lt (hrd in UAE)	392	AD		ai47
UAE-NDB Jebel Ali	26	ppc,lt (hrd in UAE)	312	JA		ai47
UAE-NDB Ras al Khaimah	28	ppc,lt (hrd in UAE)	339	RA	1000 w	ai47
USA-USCG Hampton Roads	29	f/d cd	2670		100 w	lrG

Membership and Money corner:

We have to welcome a new member: OM Klaus (kh84). Viel Spaß mit der EUNLlei!!!!

Addresses/Infos/Veri-signers:

Solved UNID NDB`s by mo76

C 319 Prerov	CZE N49.2400	E17.2000	ex C-213
CWL 423 Cranwell	G N53.0134	W00.2915	
GRN 412 Gerona	E N42.0130	E02.4824	
LF 520 Bazhenovo	RUS N55.3800	E73.0600	
ZRA 330 Zadar	HRV N43.5948	E15.2948	

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Some remarks from Vaino Lehtoranta/Finland. (Nice to hear from you, mny tnx!!)  
EUN 4-98 comments:  
408 kHz Helsinki/Malmi LO is `F`, it used to be `M` many years ago.  
408 kHz Utti LO `W` is also on this frequency.

EUN 2-98 comments:

355 kHz unid = Bottna (S) NDB `BTD` located 57:44:46N 013:48:26E.  
376 `PA` unid = 377 kHz `PA` Rovaniemi LO

EUN 1-98 comments:

286.5 `AL`/287.0 code is DGPS which was moved from Almagrundet to  
an `easier` location (maintenance) near Nynäshamn during 1997.  
291.0 `ÖR`/291.5 code is also a DGPS (Örskär).  
301.5 `OB`/302.0 code is also a DGPS (Hoburg).

Most Swedish DGPS beacons are located on old MB sites. There is now a trend to drop out the Ident part as unnecessary `extra carrier` and leave the MSK code part (mostly 200 bd), emission type G1D.  
The operating Russian DGPS is Shepelevsky on 300.5 `chp`/300.0 code.

Arkadi Smirnov (Petrozavodsk, Russia) reports that NDB `PZ` on 611 Khz can not be Petrozavodsk! He says 612 kHz is occupied by a Mayak relay (150 kw in power) in his city. Naturally, NDB cannot work on the nearest frequency.  
But, maybe, another (much smaller) Petrozavodsk exists in Russia?... (via dmRU)

USCG Hampton Roads: 4000 Coast Guard Blvd, Portsmouth, VA 23703-219 (v/s= Daniel

S. Nesemeier, Snr Petty Officer)(lrg)

Fundy CGR: v/s= Fred Webster, Officer-in-Charge (lrg)

NDB Shoreham/SHM: Shoreham Airport, Shoreham-by-Sea, West Sussex, BN43 5FF (v/s=

Robert Ruffle, A.T.C. Officer)(lrg)

Perth R./VIP: address as in Klingenfuss Utility Guide 1998 (v/s= I.K. Walsh, Regional Customer Support Manager)(lrg)

Singapore Aero: Singapore Aeradio Pte Ltd., Singapore Changi Airport, P.O.Box 1115, Singapore 918158, Republic of Singapore (pt53)

Tallinn Rescue: Estonian MRCC, Susta 15, EE - 0017 Tallinn, Estonia (v/s: Anton Maiblum, officer on duty)(pt53)

MRCC Tallinn tel.: 00 372 6 922222 00 372 6 399500 00 372 51 260511

fax.: 00 372 6 399501 tel/fax: 00 372 6 399502

telex: (537)173341 PIIR EE (dmRU)

Rostov Volmet: Rostov Aviameteo, Chief of Radiotzentr, Rostov Airport, 344009

Rostov-on-Don (ai47)

Petrozavodsk R./RUA8: Petrozavodsk R.(Radio Karelia), Pirogovastr. 2, 185630

Petrozavodsk, Karelia, Russia (ai47)

Bergen Radio/LGN: Radio Hellenbakken 30,N-5035 Sandviken (v/s R.

Thomasten)(ai47)

Kuressaare Rescue: Saarema Piirivalve Piirkond, Tallinna Mnt 19, Kuressaare, EE-3300 (v/s Mati Terve)(ai47)

NDB Brunei/BR: Brunei Aeradio, AEROTELS SECTION, Civil Aviation Department, Brunei Int'l Airport, BSB 2015, Brunei-Darussalam (ai47)

NDB Ras al Khaimah/RA: Ras Al Khaimah Aeradio, SERCO-IAL Ltd., Ras Al Khaimah Int'l Airport, Sr. Electronics Engineer, P.O.Box 501, Ras Al Khaimah (ai47)

NDB`s UAE/JA/AN/AD: SERCO-IAL Ltd., Abu Dhabi Int'l Airport, Manager Technical Services, P.O.Box 2411, Abu Dhabi (ai47)

NDB Izki/NIZ: Muscat Aeradio, P.O.Box 1002, C.P.O., Manager Technical Services, Seeb Int'l Airport, OMAN (ai47)

NDB Khon Kaen/KN: Khon Kaen Aeradio, Aeronautical Radio of Thailand, Khon Kaen ATCC, Air Traffic Controler, Khon Kaen Int'l Airport, Air Navigation Facilities Division, Khon Kaen, THAILAND (ai47)

NDB Sinjon/SJ: Singapore Aeradio Pte Ltd, Unit 047-023, 4th Storey, Terminal 2, Singapore Changi Airport, P.O. Box 1115, Singapore 918158 (ai47)

Inquiries Department:

OM Arkadi Smirnov reports that RAF Pitreavie/MKL address given in Spezial-Frequenzliste (Chief Signals Officer, Dunfermline, FIFE, KY11 5QF, Scotland, the

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U.K.) is no longer valid. His report was returned by post (address moved).  
Can anybody help?

This list of TS-Stations is from OM PRL, supplied by pt53 (OM PRL is a member of the EAWRC - East and West Radio Club - TNX!)

c/s Location	North	East	QRG	KW	Time
RBU Moskau	55 44´	38 12´	66,6	800	0000-2400
RTZ Irkutsk	52 26´	103 41´	50		0000-2400
RWM Moskau	55 44´	38 12´	4996	5	0000-2400
			9996	5	0000-2400
			14996	8	0000-2400
RID Irkutsk	52 26´	103 41´	5004	1	0000-2400
			10004	1	0000-2400
			15004	1	0000-2400
ULA4 Tashkent	41 19´	69 15´	2500	1	0500-0400
			5000	1	1400-0400
			10000	1	0500-1330
RAB-99 Chabarovsk	48 30´	134 50´	20,5	300	all:
			23	300	0206-0247
			25	300	0806-0847
			25,1	300	1406-1447
			25,5	300	
RJH-63 Krasnodar	44 46´	39 34´	20,5	300	all:
			23	300	0906-0940
			25	300	1706-1740w
			25,5	300	2106-2140s
			25,1	300	
RJH-69 Molodeshno	54 28´	26 47´	20,5	300	all:
			23	300	0706-0747
			25	300	1306-1347
			25,1	300	
			25,5	300	
RJH-77 Archangelsk	64 22´	41 35´	20,5	300	all:
			23	300	0306-0347s
			25	300	1106-1147
			25,1	300	2106-2147w
			25,5	300	
RJH-86 Bishkek	43 03´	73 37´	20,5	300	all:
			23	300	0306-0347
			25	300	1106-1147
			25,1	300	1606-1647w
			25,5	300	2006-2047s
RJH-90 Novgorod	56 11´	43 57´	20,5	300	all:
			23	300	0506-0547
			25	300	1906-1947
			25,1	300	
			25,5	300	
RNS-E(A) Briansk	53 08´	34 55´		100	0400-0900
				800	1400-1800
RNS-E(D) Sisran	53 18´	48 07´		100	0400-0900
				800	1400-1800
RNS-W(A) Aleksandrovsk Sachalinsk	51 05´	142 43´		100	2300-0500
				400	1100-1700
RW-166 Irkutsk	52 26´	103 41´	198	40	2200-2100

We have to thank the following (8) contributors for their able work: pcG, dmRU, pt53, mo76, lrG, hl71, abNL, ai47  
To ibG: Tnx for your card, dear Ian! To dp41: MNY tnx for your cards, Dieter!!!!  
gd dx + 73`s; until next month

Andreas

EUNL1998

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 \* \*  
 \* Deadline: 20th of the month!!! \*  
 \* \*\*\*\*\*

Ave gentlemen,  
 nice to see you all to the last editon before the summerbreak. Hope you enjoy the time with holiday, relaxing and some dxing. The deadline for EUNL 9-98 will be the 20th August. We are all waiting for your famous summerloggings! This time, we also have loggings from an australian Utility-listener (eaAU, welcome -ed) in our magazin. This should be no problem as nearly all stations can also be heard in Europe. But very nice to see that our journal reaches the pacific region!  
 There is also a new link at EUNL Home page: >> QSL << There you will find a list of all QSL's received in our journal. This EUNL QSL-List should help you to get an information, if and when a utility station has send out a QSL. If you are looking for an address, please download the EUNL issue mentioned in the column `issue`. Hopefully the station address will be mentioned.

N D B

267	0102	FNO	Foyno	NOR	id	nr79
275	2359	VG	Vaga	NOR	id	nr79
276,5	2317	BSF	Bou Sfer (tent)	ALG	id+tone(not BSE/G, ed, hi)	nr79
277	2358	GOL	Golyama	BUL	id+tone	nr79
282	1807	OA	Unid	?	2x2 id=1 min	zeTC
289	0219	CC	Unid	?	2x2 id=1 min + tone	zeTC
300	0102	SC	Linkoeeping/Malmen/Saab	S	id	nr79
303	2040	KA	Kornik	POL	id	nr76
303	0127	LA	Unid	?	4x = 1 min	zeTC
306,5	2250	UT	Utsira	NOR	id+tone	nr79
311,5	2309	LP	Loop Head	IRL	id+tone	nr79
313	2255	PA	Cabo Palos	E	id+tone	nr79
316	0034	OE	Dublin	IRL	id	nr79
325	0214	AC	Glasgow	G	id	nr79
325	2322	PG	Trollhaettan	S	id	nr79
328	2337	CL	Carlisle	G	id	nr79
332	0203	NV	Amsterdam	HOL	id	nr79
334	2337	GMN	Gormanston	IRL	id	nr79
340	2353	HAW	Hawarden	G	id	nr79
340	0121	IOA	Ioannina	GRC	id	nr79
341	0149	LO	Billund	DNK	id	nr79
341	0119	NKS	Karlstad	S	id	nr79
341	2346	EDN	Edinburgh	G	id	nr79
344	0045	ORJ	Unid	?	id (once all 8 sec.)	nr79
344	2359	WIK	wick	G	id	nr79
345	2032	BT	Unid	?	id (once all 8 sec.)	nr76
348	0015	MSK	Unid	?	id (once all 8 sec.)	nr79
348	0001	ATF	Aberdeen	G	id	nr79
348	2348	ZZA	Zaragoza	E	id	nr79
349	0029	DNF	Dan-DUC-DF-C	IW	id+tone	nr79
350	0212	GLG	Glasgow	G	id	nr79
352	0139	ZO	Stavanger/Sola	NOR	id	nr79
352	0138	NEW	Newcastle	G	id	nr79
356	0127	SGO	Sagunto	E	id	nr79
360	0019	ASK	Askoey	NOR	id	nr79
362	2040	S	Unid	?	id (once all 3 sec.)	nr76
366	0136	SF	Falkoeeping	S	id	nr76



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368	0216	UW	Edinburgh	G	id	nr79
369	0144	PS	Rotterdam	HOL	id	nr79
394	2028	SUW	Suwalki	POL	id	nr76
395	2353	FOY	Foynes	IRL	id	nr79
402	0052	R(ER?)	Unid	?	id+tone (once all 7-8sec.)	nr76
424	0058	OMK	Unid	?	id (once all 13 sec.)	nr79
425	0147	WYP	Unid	?	id (once all 7-9 sec.)	nr76
425	0150	ERT	Erfurt	D	id	nr76
659	0025	DO	Unid	?	2x2 id=1 min	zeTC
745	2346	GE	Unid	?	cont. Id	zeTC
797	0104	TP	Unid	?	2x2 id=1 min	zeTC

F I X E D

4165	2218		Mossad	ISR	USB MIW2 transmission	abNL
4665	2220		Mossad	ISR	USB KPA2 transmission	abNL
5237,5	1725	FDI22	AF Narbonne	F	cw-vvv	pt53
5270	1542	FDG	AF Bordeaux	F	cw-vvv de fdg	pt53
5342	1544	FDY	AF Orleans	F	cw-vvv	pt53
5880	1644	RMP	RUS Ny Kaliningrad	KAL	cw-de RMP	zeTC
6738	0826	GUSR	HMS Chaser	IW	USB clg Architect No joy	abNL
6815	0615	ICI	GC HQ Rome	I	ctc ICI01	nr76
6815	0615	ICI01	GC Genova	I	ctc ICI	nr76
6815	0616	ICI03	GC Fiumicino	I	ctc ICI	nr76
6815	0616	ICI06	GC Bari	I	ctc ICI	nr76
6815	0615	ICI08	GC Ravenna	I	ctc ICI	nr76
6815	0622	ICI11	GC Catania	I	ctc ICI01	nr76
6815	0624		Compamare Termoli	I	ctc Compamare Messina	nr76
6815	0624		Compamare Messina	I	ctc Compamare Termoli	nr76
6815	0632		Compamare Manfredonia	I	ctc ICI06	nr76
7335	0608	FDC	AF Metz	F	cw-vvv	zeTC
7335,5	1340	FDC	AF Metz	F	cw-vvv	wk08
7337	2200		Lincolnshire Poacher	CYP	USB Id 28065//9251//12603kz	abNL
7470,5	0610	FDC	AF Metz	F	cw-vvv	zeTC
7472,5	0612	FDG	AF Bordeaux	F	cw-vvv	zeTC
7668	1848	8BY	INTEL	F	cw-vvv	pt53
7863,5	1558	SPW	Warszawa R.	POL	cw-de spw qsx 8405.0 khz..	wk08
7865	1605	SPW	Warszawa R.	POL	usb-YL id, Pol tfc	wk08
12056	2200		Cherry Ripe	?	USB Id 35624//9263//15624kz	abNL
13527,9	1157	S	Ny Arkhangelsk	RUS	cw-marker	wk08
13528	1157	C	Ny Moscow	RUS	cw-marker	wk08
14000	1700		Numbers station E15	?	USB id Frank Young Peter	abNL
14487	1700		Lincolnshire Poacher	CYP	USB id 18647	abNL
14607	1744		Madrid R.	E	USB,S,phone-patch	pt53
28258	cont	DKOTEN	Mt. Feldberg (tent)	D	id+tone	nr79

1 kHz below the signal sounded like `TUIT4MA`, the same phenomenum as those NDBs EAF/324, INA/355, ERL/365 (definitely originating from Poland or Baltic region)? Joachim Stiller publish this theory in DSWCI SWN in June 1997.....nr79

M A R I T I M E

2182	2004		Cabo de Gata R.	E	USB,E/S QSY 1767	pt53
2182	2002	IPB	Bari R.	I	USB,I,wkg vessel	pt53
2182	2104	OXZ	Lynby R.	DNK	USB,E,QSY 1734, 1704, 1758	pt53
2182	2133	GKZ	Humber R.	G	USB,E,QSY 1869	pt53
2182	2137	PBK	Netherlands CG	HOL	USB,E,ID, QSY 1713	pt53
2182	2137	IDC	Cagliari R.	I	USB,E/I QSY 2680, 2799	pt53
2182	1935	IAR	Rome R.	I	USB,E/I, QSY 1888	pt53
2182	2352	LGQ	Rogaland R.	NOR	USB,E,clg C6MW2	pt53
2182	2133	LGZ	Farsund R.	NOR	USB,E/norw. QSY 1785	pt53
2182	1935	SPH	Gdynia R.	POL	USB,E/POL, ID, QSY 1692	pt53
2182	1935	SDJ	Stockholm R.	S	USB,E,QSY	pt53
2824	2355	PCG	tent. Scheveningen R.	HOL	USB,E,tape, that PCG is closed until tomorrow morning	pt53
2483	2107	CUB	Madeira R.	MDR	USB,E tfc-list	pt53
3290	2105		Madrid R.	E	USB,S,private talk w\Palma	pt53
4213	0925	VIP	Perth R.	AUS	cw-cq cq de vip gr1	ewAU
4228,5	1237	VIM	Melbourne R.	AUS	cw-Freq information	ewAU

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4232,5	1302	VRX8	Hongkong R.	CHN	cw-stn mkr	ewAU
4245	1307	VIS	Sydney R.	AUS	cw-stn mkr	ewAU
4263,3	1243	ZLO	Waiouru R.	NZL	cw	ewAU
4274	2245	GKB4	Portishead R.	G	cw	ewAU
4274	0825	KFS	Palo Alto R.	USA	cw-stn mkr	ewAU
4275	1114	HPP	Panama R.	PNR	cw-stn mkr	ewAU
4276	1108	JNA	JMSA Tokyo R.	J	cw-stn mkr	ewAU
4305,5	0820	JNA	JMSA Tokyo R.	J	cw-mkr	ewAU
4340	1055	XSQ	Guangzhou R.	CHN	cw-stn mkr	ewAU
4426	1143	VIP	Perth R.	AUS	usb-warning for seas	ewAU
6330	1109	XSG	Shanghai R.	CHN	cw-stn mkr	ewAU
6386,5	2235	ZSJ3	Ny Capetown	AFS	cw-cq qsx	pt53
6389	2237	CTP	Ny Oeiras	POR	cw-vvv qsx	pt53
6467	2254	LFI	Rogaland R.	NOR	cw-LFI + SITOR	pt53
6470	1457	SXA34	Ny Spata Attikis	GRC	cw-vvv	pt53
6484,5	2258	WSC	Tuckerton R.	USA	cw-cq qsx	pt53
6491,5	1271	JOS	Nagasaki R.	J	cw	ewAU
6501	1200	NMN	USCG Portsmouth	USA	usb-weather bcst	ewAU
6519	0921	VIS	Sydney R.	AUS	usb,clg selcal 68,no tfc	ewAU
8417	2225	GKE4	Portishead R.	G	cw-gke 4 + SITOR	pt53
8417,5	1122	XSV	Tianjin R.	CHN	cw-station id	ewAU+ewAU
8418	2227	IAR	Rome R.	I	cw-iar + SITOR	pt53
8418,5	2227	LGB2	Rogaland R.	NOR	cw-lgb tlx + SITOR	pt53
8419	2228	VIP33	Perth R.	AUS	cw-vip + SITOR	pt53
8419,5	2229	PPR	Rio R.	B	cw-ppr + SITOR	pt53
8420	1132	KHF	Agana R.	GUM	cw	ewAU
8420,5	0113	HEC18	Bern R.	SUI	cw-hec + SITOR	pt53
8420,5	2230	9VG78	Singapore R.	SNG	cw-9VG + SITOR	ewAU+pt53
8421	2230	OXZ	Lyngby R.	DNK	cw-oxz + SITOR	pt53
8421,5	0114	9AR	Rijeka R.	HRV	cw-9ar + SITOR	pt53
8421,5	1147	VRX	Hongkong R.	CHN	cw-stn mkr	ewAU
8422	1011	NRV	USCG Guam	GUM	cw-stn mkr	ewAU
8422	2231	ESA	Tallinn R.	EST	cw-de esa + SITOR	pt53
8422,5	2232	USU	Mariupul R.	UKR	cw-usu + SITOR	pt53
8423	1053	UFL	Vladivostok R.	RUS	cw-id mkr	ewAU
8425,5	2232	HEC28	Bern R.	SUI	cw-hec + SITOR	pt53
8426,5	1004	9VG	Singapore R.	SNG	cw-stn mkr	ewAU
8426,5	2233	WCC	Chatham R.	USA	cw-vct/wcc + SITOR	pt53
8427	1006	KPH	San Francisco R.	USA	cw-channel marker	ewAU
8427	2234	OXZ	Lyngby R.	DNK	cw-oxz + SITOR	pt53
8427,5	2234	SPA46	Gdynia R.	POL	cw-spa + SITOR	pt53
8427,5	2235	A9M	Bahrain R.	BHR	cw-de a9m tlx + SITOR	pt53
8428	0119	NMN	USCG Camslant	USA	cw-nmn + SITOR	ewAU+pt53
8428,5	0120	PCH46	Scheveningen R.	HOL	cw-pch + SITOR	pt53
8429	2236	EAD	Madrid R.	E	cw-ead + SITOR	pt53
8429,5	1009	NMO	USCG Honolulu	HWI	cw-stn id	ewAU
8430	1012	XSG	Shanghai R.	CHN	cw-stn id	ewAU
8430,5	1013	WLO	Mobile R.	USA	cw-stn id	ewAU
8431	0121	TAH	Istanbul R.	TUR	cw-tah + SITOR	pt53
8431,5	2237	UAT	Moskau R.	RUS	cw-de uat + SITOR	pt53
8433	2238	8PO	Barbados R.	BRB	cw-8po + SITOR	pt53
8434,5	0123	LPD	General Pacheco R.	ARG	cw-lpd + SITOR	pt53
8435	1055	XSQ	Guangzhou R.	CHN	cw-stn mkr	ewAU
8435	2239	VCT	Tors Cove R.	CAN	cw-vct + SITOR	pt53
8437	0012	4XZ	Ny Haifa	ISR	cw-vvv de 4XZ	pt53
8440,6	1900	UAT	Moskva R.	URS	cw-cq,qsw,tfc list	wk08
8444,5	1018	KFS	Palo Alto R.	USA	cw-stn mkr	ewAU
8448	2241	A9M	Bahrain R.	BHR	cw-cq qsx	pt53
8450	1024	RUF	Sevastopol R.	UKR	cw-msg to unid ship	ewAU
8450	0010	SAA	Karlskrona R.	S	cw-cq,mrk, not listed here	pt53
8457	1057	PKP	Dumai R.	INS	cw	ewAU
8457	2242	OFJ	Helsinki R.	FNL	cw-ofj qsx	pt53
8459	2222	LSD836	Argentina R.	ARG	cw-lsd 836 + SITOR	pt53
8473	0857	PKE	Amboina R.	INS	cw-mkr	ewAU
8473,5	2212	A7D	Doha R.	QAT	cw-de a7d	pt53
8484	1038	HLF	Seoul R.	KOR	cw-stn mkr	ewAU
8487	1232	XSG	Shanghai R.	CHN	cw-tfc list	ewAU
8491	2247	AQP5	Ny Karachi	PAK	cw-vvv de aqp 2/4/5/6 wk08+pt53	ewAU

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8502	1232	XSG	Shanghai R.	CHN cw-stn id	ewAU
8505	1048	UFZ	Vladivostok R.	RUS cw-mkr, de ufz k	ewAU
8510	1330	UBB4	Kaliningrad R. ?	KAL cw-vvv cq (highspeed)	wk08
8511	1050	XSW2	Tai-chung R.	TWN cw-clear stn id	ewAU
8514	1219	XSQ	Guangzhou R.	CHN cw-stn mkr	ewAU
8515	2250	5AT	Tripoli R.	LBY cw-vvv + cq	pt53
8521	0925	VIP	Perth R.	AUS cw-stn mkr	ewAU
8522	1144	9WW20	Kuching R.	MLE cw-weak+noisy sig.,stn mrk	ewAU
8532	2252	LZW40	Varna R.	BUL cw-de lzw 40	pt53
8540	1100	USU	Mariupol R.	UKR cw-vvv 4kf de usu qss...	wk08
8541	2251	A9M	Bahrain R.	BHR cw-a9m + SITOR	pt53
8542	1103	PKX2	Jakarta R.	INS cw-wx info	ewAU
8551,5	2254	CTP	Ny Oeiras	POR cw-vvv qsx	pt53
8555	1545	TBB7	Ny Ankara	TUR cw-vvv tbdj de tbb5/7 qap	wk08
8559,5	2245	GKB4	Portishead R.	G cw-wx info	ewAU
8565	2230	D3E51	Luanda R.	AGL cw	ewAU
8566	2240	ZSJ4	Ny Capetown	AFS cw-cq qsx	pt53
8570	1107	WNU53	Slidell R.	USA cw	pt53+ewAU
8571	1108	JNA	JMSA Tokyo R.	J cw	ewAU
8573	2213	CLA21	Havana R.	CUB cw-cq qsx	pt53
8577	1110	HLO	Seoul R.	KOR cw-stn mkr	ewAU
8584	1111	VRX	Hongkong R.	CHN cw-msg to ship HUAJ	ewAU
8586	1114	WCC	Chatham R.	USA cw-stn mkr	ewAU
8589	2257	HPP	Panama R.	PNR cw-vvv cq mrk	pt53
8593	2002	UUI	Odessa R.	UKR cw-cq de utt/uui qsw...	wk08
8605	1300	UIW	Kaliningrad R.	KAL cw-cq de uiw/uiw2 qss...	wk08
8616,5	1800	URK9	Kertch R.	UKR cw-cq de urk9 qss	wk08
8618	1147	KPH	San Francisco R.	USA cw-stn mkr	ewAU
8624	1150	1150	Guangzhou R.	CHN cw-stn id	ewAU
8632	1020	XSW	Kaoshiung R.	TWN cw	ewAU
8634	1959	PPR	Rio R.	B cw-vvv qsx	pt53
8634	1959	VTG6	Ny Bombay	IND cw-vvv de vtg 5/6/7	pt53
8636,5	1155	HLW	Seoul R.	KOR cw	ewAU
8650	1934	SPB43	Szczecin R.	POL cw-vvv de spb 42/61/81 qsx	pt53
8658	2300	ASK	Karachi R.	PAK cw-vvv de ask qsx	pt53
8661	1219	XSQ	Guangzhou R.	CHN cw	ewAU
8664,2	1213	unknown	unknown	? cw-de rnr1, into 5fg	ewAU
8665	1204	XSG	Shanghai R.	CHN cw-stn mkr	ewAU
8688,5	2328	ZSC6	Capetown R.	AFS cw-cq mrk	pt53
8691	1945	XST	Qingdao R.	CHN cw-cq qsx	pt53
8698	1625	7TF6	Boufarik R.	ALG cw-cq qsx	pt53
8700	1616	9AR	Rijeka R.	HRV cw-vvv de 9ar qrl grx 0830	pt53
8705,4	1105	PKN	Balikpapan R.	INS cw-usually pkc heard here	ewAU
8719	1005	SDJ	Stockholm R.	S USB,E, clg Lydia Atlantik	pt53
8722	1103	VIP	Perth R.	AUS usb-to ship at sea	ewAU
8722	1057	BVA	Taipei R.	TWN usb-this is bva	ewAU
8722	1100	WOM	Pennsuco R.	USA usb-freq info of ops	ewAU
8725	1110	HLS	Seoul R.	KOR usb-song of joy, priv. pp	ewAU
8734	2210	SVN42	Athens R.	GRC USB,Gr.,ID, msgs	pt53
8752	1912	LYL	Klaipeda R.	LTU Ru r/t tfc,YL-id	zeTC
8764	1200	NNM	USCG CAMSLANT	USA usb-wx bcst	ewAU
8764	2209	EHY	Madrid R.	E USB,Sp.,tfc	pt53
8773	1942	UIW	Kaliningrad R.	KAL RU r/t tfc,YL-id	zeTC
8782	1920	HEB18	Bern R.	SUI USB,E,ID,night-time svce	pt53
8803	????	WLO	Mobile R.	USA SSB,YL clg,tfc	lrg
12579,5	1115	9VG	Singapore R.	SNG cw-stn mkr	ewAU
12662	1841	7TF8	Boufarik R.	ALG cw-7tf8 qsx	pt53
12673,5	2300	CLA33	Havana R.	CUB cq,qsx	pt53
12675	1345	SAA	Karlskrona R.	S cw-cq de saa, mrk	pt53
12678	0851	9MG	Penang R.	MLA cw-cq	wk08+ewAU
12678	1843	LFI	Rogaland R.	NOR cw-lfi + SITOR	pt53
12682,5	0857	PKE	Amboina R.	INS cw-mkr	ewAU
12687	1847	OFJ32	Helsinki R.	FNL cw-ofj qsx	pt53
12693,8	1757	ZRQ5	Ny Capetown	AFS cw-vvv zrj 2/4/5/6	pt53
12697	1100	USU	Mariupol R.	UKR cw- see 8540	wk08
12700	1850	XSQ4	Guangzhou R.	CHN cw-cq,mrk	ewAU+pt53
12709	1901	A9M	Bahrain R.	BHR cw-cq	pt53
12712	2207	HLW	Seoul R.	KOR cw-cq de hlw 3 qsx...	wk08

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12714	1903	UCE	Arkhangelsk R.	RUS USB, Ru, numbers	pt53
12721	1907	SPH61	Gdynia R.	POL cw-de sph 61/81 qsx	pt53
12727,5	1908	LGJ	Rogaland R.	NOR cw cq de lgw lgb lgj lgw	pt53
12735	1911	URL	Sevastopol R.	UKR cw-cq de url, tfc	pt53
12738,5	1914	PPR	Rio R.	B cw-tfc-list	pt53
12748	1916	IRM	Roma Medici R.	I cw-vvv, mrk	pt53
12756,5	1918	A9M	Bahrain R.	BHR cw-a9m + SITOR	wk08+pt53
12765	1400	UCW4	St. Petersburg R.	RUS cw-cq de rjfy/ucw4 qsw...	wk08
12771	1400	UHP5	St. Petersburg R.	RUS cw-cq de uhp5 qsw...	wk08
12780	1921	D3E61	Luanda R.	AGL cw-cq qsx	wk08+pt53
12780,3	1919	9AR	Rijeka R.	HRV cw-vvv qsx	pt53
12799,5	1027	PCH51	Scheveningen R.	HOL cw-de pch 51 12 k	pt53
12801	2007	TAH	Istanbul R.	TUR cw-cq qsx	pt53
12808,5	1923	VTG7	Ny Bombay	IND cw-vvv de vtg 4/5/6/7	pt53
12823,5	2001	CTP	Ny Oeiras	POR cw-de ctp qsx	pt53
12835,4	1956	GKB5	Portishead R.	G cw-de gkb qsx	ewAU+pt53
12838	1800	URK9	Kertch R.	UKR cw- see 8616,5	wk08
12843	1955	HLO	Seoul R.	KOR cw,cq qsx	pt53
12849	1952	ZSJ5	Ny Capetown	AFS cw-cq qsx	pt53
12856	1950	XSG	Shanghai R.	CHN cw-cq	pt53
12864	1017	XSW	Kaoshiung R.	TWN cw-channel mkr	pt53+ewAU
12887,5	1938	EAD44	Madrid R.	E cw-de ead 3/44 qsx	pt53
12891	1330	UFN	Novorossiisk R.	RUS cw-cq,qsw	wk08
12910	1900	UAT	Moskva R.	RUS cw-cq,qsw,tfc list	wk08
12923	1335	HLW2	Seoul R.	KOR cw-cq,qsx	wk08
12916,5	1936	OXZ6	Lyngby R.	DNK cw-cq,tfc-list	pt53
12935	1842	HLG	Seoul R.	KOR cw-cq de hlg qsx	wk08+pt53
12939	1844	SPE61	Szczecin R.	POL cw-de spe 42/61/81 qsxwk08+	pt53
12940	1846	LZW51	Varna R.	BUL cw-de lzw 51	pt53
12952,5	0925	VIP	Perth R.	AUS cw-stn- mkr	ewAU
12965	1430	USO5	Ismail R.	UKR cw-4ki de uso6/uso5 qsw...	wk08
12973	1300	UIW	Kaliningrad R.	KAL cw-cq de uiw/uiw2 qss...	wk08
12988,5	2131	LPD88	General Pacheco R.	ARG cw-vvv de lpd88 qsx...	wk08
13012	1852	AQP6	Ny Karachi	PAK cw-vvv de aqp 2/4/5/6	pt53
13015,5	1854	IAR3	Roma R.	I cw-vvv de iar, mrk	pt53
13024,5	1856	ASK	Karachi R.	PAK cw-vvv qsx	pt53
13029	1858	SVB5	Athen R.	GRC cw-de svb4/5/6/7 qsx	pt53
13050	1020	UDK2	Murmansk R.	RUS cw-4ls de udk2 qsx...	wk08
13062	2213	CLA32	Havana R.	CUB cw-cq qsx	pt53
13069,5	1903	JOS	Nagasaki R.	J cw-cq	pt53
13113	1048	XSG	Shanghai R.	CHN usb-YL CC phone patch	ewAU
13149	1055	XSQ	Guangzhou R.	CHN usb-YL talk	ewAU
13191	1410	LZW	Varna R.	BUL usb-YL id, tfc list	wk08
16807	2000	9VG	Singapore R.	SNG cw	pt53+ewAU
16807,5	0558	ZLA	Awanui R.	NZL cw-id	ewAU
16807,5	1756	GKE6	Portishead R.	G cw-gke 6 + SITOR	pt53
16809,5	0952	VIP	Perth R.	AUS cw	ewAU
16809,5	1754	EAD	Madrid R.	E cw-ead + SITOR	pt53
16811,5	1758	A9M	Bahrain R.	BHR cw-a9m tlx + SITOR	pt53
16812,5	1007	NRV	USCG Agana	GUM cw	ewAU
16813	1759	UAT	Moskau R.	RUS cw-de uat +SITOR	pt53
16814,5	2200	CBV	Playa Ancha R.	CHL cw+SITOR (not listed here)	pt53
16815,5	1801	9VG	Singapore R.	SNG cw+SITOR (not listed here)	pt53
16815,5	1802	OXZ	Lyngby R.	DNK cw-oxz + SITOR	pt53
16818,5	0917	9VG	Singapore R.	SNG cw	pt53+ewAU
16819,5	1804	NMN	USCG CAMSLANT	USA cw-nmn + SITOR	pt53
16821	0920	VRX	Hongkong R.	CHN cw-stn mkr	zeTC+pt53+ewAU
16822,5	0917	9VG	Singapore R.	SNG cw-mkr	ewAU
16825	1807	WCC	Chatham R.	USA cw-vct/wcc + SITOR	pt53
16826	1808	ESA	Tallinn R.	EST cw-de esa + SITOR	zeTC+pt53
16826,5	1810	PCH65	Scheveningen R.	HOL cw-pch + SITOR	pt53
16838,5	1616	9AR	Rijeka R.	HRV cw-id + SITOR	zeTC
16841,5	1615	8PO	Barbados R.	BRB cw-id + SITOR	zeTC
16868	1553	9VG48	Singapore R.	SNG cw-9VG + SITOR	zeTC+pt53
16869	1608	KHF	Guam R.	GUM cw-id + SITOR	zeTC
16879	1604	LZW67	Varna R.	BUL cw-id + SITOR	zeTC
16880	1055	XSQ	Guangzhou R.	CHN cw-stn mkr	zeTC+ewAU
16886	1419	TAH	Istanbul R.	TUR cw tah + SITOR	pt53

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16892	1132	XSG	Shanghai R.	CHN	cw-stn mkr	ewAU
16893	1600	USU	Mariupol R.	UKR	cw-id + SITOR	zeTC
16898,5	1420	UAT	Moscow R.	RUS	cw-de uat + SITOR	pt53
16910	1435	HLW	Seoul R.	KOR	cw-cq,qsx	wk08
16911,2	1421	JNA	JMSA Tokio	J	cw-cq only	pt53
16915,5	2115	CBV	Playa Ancha R.	CHL	cw-vvv qsx	pt53
16932	1421	7TF10	Boufarik R.	ALG	cw-cq qsx	pt53
16933,2	0823	JOS	Nagasaki R.	J	cw-stn mkr	ewAU
16940	1020	XSW	Kaoshiung R.	TWN	cw	ewAU
16942,6	2139	9AR	Rijeka R.	HRV	cw-vvv de 9ar 2/3/7	wk08+pt53
16966	1615	SVB6	Athen R.	GRC	cw-de svb 4/5/6/7 qsx	pt53
16974	1613	SPE	Szczecin R.	POL	cw-de spe 42/??/81qsx	weak pt53
16976	2138	LSD836	Argentina R.	ARG	cw-1sd 836 + SITOR	pt53
16986	1559	VTR	Ny Oeiras	POR	cw-de ctp qsx	pt53
16987	0833	VRX81	Hongkong R.	CHN	cw	ewAU
16992,8	1100	UAT	Moskva R.	RUS	cw-cq,qsw,tfc list	wk08
17011	0810	XSX	Keelung R.	TWN	cw	ewAU
17011	1430	TBO3	Ny Izmir	TUR	cw-vvv tbdj de tbo 3	pt53
17013	1548	5BA	Cyprus R.	CYP	cw-cq mrk	pt53
17021,6	1434	TAH	Istanbul R.	TUR	cw-cq qsx	pt53
17045,6	2133	LPD46	General Pacheco R.	ARG	cw-vvv de lpd 46 qsx	pt53
17050,3	1545	4XZ	Ny Haifa	ISR	cw-vvv	pt53
17050,4	1545	ASK	Karachi R.	PAK	cw-vvv qsx	pt53
17053	0810	XSX	Keelung R.	TWN	cw-stn mkr	ewAU
17064,8	1540	EDZ6	Madrid R.	E	cw-de ead 3/edz 6 qsx	pt53
17066,5	1542	A9M	Bahrain R.	BHR	cw-a9m + SITOR	pt53
17074,2	1535	LGX	Rogaland R.	NOR	cw-cq qsx	pt53
17076	1608		UNID	?	phone-patch,Sp/E	pt53
17094,8	1412	SVA6	Athen R.	GRC	cw-de sva 6	pt53
17103	1605	XSG	Shanghai R.	CHN	cw-cq gru?	pt53
17105	2124	IRM	Roma Medico R.	I	cw-vvv, mrk	pt53
17113	2121	GKB6	Portishead R.	G	cw-de gkb qsx	pt53
17141,6	1100	USU	Mariupol R.	UKR	cw- see 8540	wk08
17145	1410	LZW72	Varna R.	BUL	cw-de lzw 72	pt53
17147	1525	URL	Sevastopol R.	UKR	cw-de url mrk	pt53
17172,4	0702	9MG	Penang R.	MLA	cw-stn mkr	ewAU
17175,2	1519	A9M	Bahrain R.	BHR	cw-cq qsx	pt53
17177	1517	URK9	Kertch R.	UKR	cw-tfc,ID	wk08+pt53
17184,8	0429	KFS	Palo Alto R.	USA	cw-mkr	pt53+ewAU
17198,9	1353	PCH	Scheveningen R.	HOL	cw-de pch 60 10	pt53
17206	1511	IAR	Rome R.	I	cw-vvv mkr	pt53
17239,7	1347	PKX	Jakarta R.	INS	cw-cq	pt53
17269	1300	BVA	Taipei R.	TWN	usb-YL E,Chin:hello all stnw	08
17269	0642	VIT	Townsville R.	AUS	usb,pp,QSX 16389	ewAU
19685	2217	WLO	Mobile R.	USA	cw+SITOR (listed 19685.5)	pt53
19692,5	1552	ZSC	Capetown R.	AFS	cw-id + SITOR	zeTC
19697	1537	SVN63	Athens R.	GRC	cw-id + SITOR	zeTC
19726	1421	A9M	Bahrain R.	BHR	cw-a9m + SITOR	pt53
22459	0810	XSX	Keelung R.	TWN	cw-stn mkr	ewAU
22512	1100	UAT	Moskva R.	RUS	cw-cq,qsw,tfc list	wk08
22563,7	1112	9AR9	Rijeka R.	HRV	cw- see 16942,5	wk08
22575,5	0726	PKX	Jakarta R.	INS	cw-stn mkr	ewAU
22576,5	0820	JNA	JMSA Tokyo R.	J	cw-stn mkr	ewAU

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5658	2052		Kabul Aero	AFG	USB,E,wkg Singapore 6642	pt53
5658	2054		Mumbai Aero	IND	USB,E,wkg Malaysian 20	pt53
5658	2100		Khartoum Aero	SDN	USB,E,wkg LH ?57	pt53
6679	1124		Auckland Volmet	NZL	usb-Volmet	ewAU
6730	0956	DHJ59	Ny wilhelmshaven	D	usb-wkg T1C	wk08
8828	1050		Auckland Volmet	NZL	usb-Volmet	ewAU
8828	1046		Hongkong Volmet	CHN	usb-Volmet	ewAU
8837	2043		LDOC El AL	ISR	USB, hebr	pt53
8861	1117		Khabarovsk Volmet	RUS	usb-Volmet in RR	ewAU
8897	2320		UNID	CHN	USB, chin.,wkg a/c	pt53
8903	2145		Luanda Aero	AGL	USB,E,wkg Springbok 252	pt53
8903	2140		Ndjamen Aero	TCD	USB,E,wkg KLM 59	pt53

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8903	2143		Kinshasa Aero	ZAI	USB,E,wkg Speedbird 56	pt53
8906	2328	CSY	Santa Maria Aero	AZR	USB,E,wkg KLM 076	pt53
8906	2328		New York Aero	USA	USB,E,wkg Springbok 202	pt53
8942	1204		Singapore Aero	SNG	usb-clg malaysian 264	ewAU
10033	2307		SILVAIR Miami	USA	USB,E,wkg Voyageur 512	pt53
10018	1602		Lahore Aero	PAK	ctc Pakistan 796	nr76
11247	1035		RAF Akrotiri	CYP	usb-id`CYPRUS`wkg ASCOT9242	wk08
11285	1648		Singapore Aero	SNG	USB,E,wkg Malaysian 164	pt53
11300	1732		Khartoum Aero	SDN	USB,E,wkg AlItalia 552	pt53
11306	0221		American Airlines Lima	PRU	ctc American 956	nr76
11387	1050		Singapore Volmet	SNG	usb-wx	ewAU
11396	1053		Denpasar Aero	INS	usb-a/c clg, pos-rprt	ewAU
11396	1137		Ujang Pandang	INS	usb-clg Garuda flight	ewAU
13264	1540		Shannon Volmet	IRL	USB,E,Volmet	pt53
13270	1553		Gander Volmet	CAN	USB,E,Volmet	pt53
13282	1548		Hongkong Volmet	CHN	USB,E,Volmet	pt53
13282	1122		Auckland Volmet	NZL	usb-Volmet	pt53+ewAU
17910	1238		Unid a/c 218	AIR	clg `OPS`	lrG
17916	1006		Speedbird 3572	AIR	clg Stockholm	lrG
17916	1007		Sockholm LDOC	S	wkg Japanese AF 001	lrG
17937	1312		American 920	AIR	clg Flight Support Lima	lrG
17937	2159		Flight Support Lima	PRU	wkg American Airlines a/c	lrG
17940	1246		Unid a/c (selcal CKGL)	AIR	clg unid stn	lrG
17940	1554		learjet 217	AIR	clg unid stn	lrG
17940	1321		und a/c	AIR	clg LDOC Houston	lrG
17940	1519		world 276	AIR	wkg LDOC Houston	lrG
17946	1503		New York Aero	USA	wkg unid, tfc	lrG
17946	1511		Continetal 55	AIR	clg Shanwick	lrG
17946	2112		San Francisco Aero	USA	wkg a/c 240CC	lrG
17946	2116		Cathay 80	AIR	wkg San Francisco Aero	lrG
17976	1016		USAF Incirlik	TUR	r/c OM	lrG
17977	0933		ZSJ2/UN300	AIR	clg SAF-AIR Ops	lrG
17977	1240		SAF-AIR Ops	AFS	wkg ZSRS1/UN15	lrG

D I G I T A L

111,3	0013	SOA211	Warsaw Meteo	POL	BAUDOT 50 Synops	abNL
4231,9	1258		unknown station	?	Unksys 300/325 strong sig.	ewAU
4271	0807	FUJ	FF Papeete	OCE	baudot 75/850 ry-Line	ewAU
4320,8	0540	?	unknown station	?	Unksys 100/180 idling sig.	ewAU
4346	0814	NMC	USCG San Francisco	USA	fax 120/576 weather map	ewAU
4583	1640	DDK2	Hamburg Meteo	D	rtty 425/50,ID,ry	pt53
5807	0715	ZKLF	Wellington Meteo	NZL	fax 120/576 weather map	ewAU
6347	1330	HWN	Ny Paris	F	rtty 850/150,raaa de hwn	pt53
7305	0821	JMH2	Tokyo Meteo	J	fax 120/576 weather map	ewAU
7755,2	1855	RFQP	FF Djibouti	DJI	ARQ-M 200 bd, idling, msgs	pt53
8334,1	0532		unknown station	?	Baudot 75/850 encry.	ewAU
8422,5	1016	KPH	San Francisco R.	USA	sitor-b 100/170 tfc 1100	ewAU
8431	1015	KEJ	Hoolehua R.	HWI	fec 100/170 wx info	ewAU
8459	1035	NOJ	Kodiak Meteo stn	ALS	fax 120/576 good wx	ewAU
8467,5	1250	JJC	Tokyo Meteo	J	fax 60/288 very strong	ewAU
8478,1	0818	FUF	Fny Fort de France	MRT	Baudot 75/850 ry, sg line	ewAU
8535	1057	UFZ	Vladivostok R.	RUS	baudot 50/170	ewAU
8600,7	1130		unknown	?	75/850 encrypted signal	ewAU
8646,3	1200	FUJ	FNy Noumea	NCL	baudot 75/850 ry line	ewAU
8682	0814	NMC	USCG San Francisco	USA	fax 120/576 wx map	ewAU
9340	0805	RCH72	Tashkent Meteo	RUS	fax 120/576	ewAU
9438	0817	JMJ3	Tokyo Meteo	J	fax 120/576 wx map	ewAU
9970	1010	JMH3	Tokyo Meteo	J	fax 120/576 wx map	ewAU
10555	0821	ZKLF	Wellington meteo	NZL	fax 120/576 wx map	ewAU
11110,7	2307	RFLI	FF Fort-de-France	MRT	e3 192/425 idling	ewAU
11112,7	0815	RFHJ	FF Papeete	OCE	e3 100/425 idling	ewAU
12144,6	0540		unknown station	?	Unksys 100/850	ewAU
12673,4	0540		unknown station	?	Unksys 300/325	ewAU
12728	1023		unknown	?	fax 120/576 wx map	ewAU
12730	0814	NMC	USCG San Francisco	USA	fax 120/576 wx map	ewAU
12745,5	0852	JJC	Tokyo Meteo	J	fax 120/576 wx map	ewAU
13597	0903	JMH4	Tokyo Meteo	J	fax 120/576 wx-map	ewAU

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14461,7	1645	ASP32	MFA Islamabad	PAK	SITOR-A, msgs	pt53
14692,5	0827	JMJ3	Tokyo Meteo	J	fax 120/576 wx-map	ewAU
14912,5	1800	SOO291	PAP warschau	POL	SITOR B,pol.nx,ID as PAP	pt53
15615	0829	AXI35	Darwin Meteo	AUS	fax 120/576 wx-map	ewAU
16025	0943	BAF9	Beijing Meteo	CHN	fax 120/576 wx-map	ewAU
16082	0903		unknown station	?	Rtty vft Group 75 bd chn	ewAU
16341,3	1330		UNID	?	Coquelet 8	pt53
16831	0920	VRX	Hongkong R.	CHN	sitor-a, msgs to ship	ewAU
16904,5	0720		unknown	?	fax 120/576	ewAU
16957,7	0435	FUJ	FNy Noumea	NCL	Baudot 75/850 ry line	ewAU
16971	0812	JJC	Tokyo Meteo	J	fax 120/576 wx-map	ewAU
16994,9	0540		unknown	?	Unksys 300/325	ewAU
16995	1210		Unid	?	BAUDOT 100 Online encry.tfcabNL	ewAU
17069,6	0822	JJC	Tokyo Meteo	J	fax 120/576 wx-map	ewAU
18220	0905	JMH5	Tokyo Meteo	J	fax 120/576 wx-map	ewAU
18237	0945	BAF33	Beijing Meteo	CHN	fax 120/576	ewAU
18441,2	0900	JMJ5	Tokyo Meteo	J	fax 120/576 wx-map	ewAU
18496,1	1345	CNM80	MAP Rabat	MRC	rtty 425/50,E nx	pt53
18554,9	0525		unknown	?	Unksys 75/850	ewAU
18801,6	0245	JKT	MFA Jakarta	INS	baudot 50/170	ewAU
19204,7	0420	RFLI	FF Fort-de-France	MRT	e3 100/425 idling	ewAU
19216,7	0420	RFLI	FF Fort-de-France	MRT	e3 100/425 idling	ewAU
20326,7	0512	RFVI	FF St. Denis	REU	e3 100/425	ewAU
20469	1046	AXM	Melbourne Meteo	AUS	fax 120/576 xw-map	ewAU
22461,4	0435	FUJ	FNy Noumea	NCL	Baudot 75/850 ry line	ewAU
22542	0819	JJC	Tokyo Meteo	J	fax 120/576 wx-map	ewAU

## T I M E S I G N A L

9996	1958	RWM	TS Moscow	RUS	CW Timesignals + id	abNL
10000	2000	BPM	TS Xian	CHN	CW/AM Timesignals + id	abNL
12984	1910	VNG	TS Llandilo	AUS	CW TS	pt53
14996	0630	RWM	TS Moscow	RUS	CW Timesignals + id	abNL
15000	0628	WWVH	TS Kihei	HWI	CW/AM TS + announcements	abNL
15000	0628	WWV	TS Boulder	USA	CW/AM TS + announcements	abNL

## Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
ALG-NDB Zarzaitine	76	ppc/irc	268	`ZAR`	100 w	zeTC
ARG-Argentina R.	51	Cd via Globe w.	12581	LSD836		lrG
ARG-Argentina R.	12	cd/e-mail via Globe	12736	LSD836		js38
AZR-NDB Flores Isl.	53	f/d lt,ppc,tourist-i	270	`FLO`	1000 w	zeTC
BEL-Oostende R.	18	cd f/up	6322	OST		lrG
BHR-Bahreïn Aero	15	IRC,AK	5667		1000 w	pt53
CAN-CCG Inuvik	14	ppc,lt,map,photo/-	2182	VFA	1000 w	js38
CAN-Churchill Aero	25	lt	8891		5000 w	lrG
CYP-Cyprus R.	16	lt	518	5BA		lrG
D -Offenbach Meteo	11	f/d lt	10100,8	DDK9		lrG
D -NDB Kiel-Holtenau	28	ppc,vc/sase	385,5	`KIL`	65 w	zeTC
D -NDB Zweibruecken	8	ppc,sti/sase	435	`ZBN`	125 w	zeTC
D -GAF Landsberg	6	pppc,st/SASE	5687	DH023	1000 w	js38
E -Cabo de Gata R.	23	ppc via Madrid	1767			lrG
E -Chipiona R.	23	ppc via Madrid	1656			lrG
E -Finisterre R.	23	ppc via Madrid	1764	EAF		lrG
E -NDB Menorca Isl.	24	f/d lt,ppc,vc,tour-i	344	`MN`	50 w	zeTC
E -Palma R.	518	QSL/SASE	1755	EAO	1000 w	gsLX
EST-Kuressaare Rescue	15	ppc,postcard/SAE,IRC	5680		600 w	gsLX
EST-Kuressaare Rescue	12	ppc,pc/USD	5680		600 w	js38
F -AF Orleans	41	cd	7335	FDY		lrG
G -NDB Coventry	10	lt/SAE back	365,5	`CT`		lrG
G -NDB Exeter	15	lt/SAE f/up	337	`EX`	30 w	lrG
G -NDB Isle of wight	14	lt/SAE not used f/up	426	`IW`	40 w	lrG
G -NDB Leeds	7	f/d lt,sae	402,5	`LBA`		lrG
G -NDB Luton	12	lt/SAE f/up	345	`LUT`		lrG
G -NDB Lyneham	15	lt/SAE f/up	282	`LA`		lrG
G -NDB Halfpenny Green	7	f/d lt/sae back	356	`HG`		lrG

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G -NDB Heathrow	14	lt/SAE f/up	424	HRW		lrG
G -NDB Manchester	15	lt/SAE f/up	428	MCH		lrG
G -NDB Stantstead	7	lt/SAE	429	SSD		lrG
G -Humber Coastguard	11	ppc/SASE	2182			gsLX
G -MAFF Base London	9	lt,ppc/SASE	6647			js38
G -Kinloss Rescue	15	ppc,lt/-	5680	GFF		js38
GRL-NDB Ikerassasuaq	48	f/d lt,ppc,pers lt,fo	372	OZN	1000 w	zeTC
GUM-Agana R.	68	cd via Globe w.	12629	KHF		lrG
GUM-Agana R	9	cd/e-mail	12629	KHF		js38
HRV-Split R.	3	lt for faxed rpt	518	9AS	1000 w	lrG
HWI-San Francisco Aero*)	11	f/d lt	17946		5000 w	lrG
I -Rome R.	72	lt,i	16820	IAR	10000 w	lrG
I -Compamare Mazara del Vallo	23	ppc/SASE	6815			gsLX
I -Compamare Rimini	14	ppc/SASE	6815		200 w	gsLX
I -Circomare Pantelleria	12	ppc/SASE	6815		200 w	js38
I -Compamare Mazara del Vallo	22	ppc/SASE	6815			js38
I -Compamare Messina	9	ppc/SASE	6815			js38
I -Compamare Rimini	10	ppc/SASE	6815		150 w	js38
I -Compamare Termoli	57	ppc/SASE	6815		60 w	js38
I -Compamare Trapani	20	ppc/SASE	6815		250 w	js38
I -MRSC Venezia	14	ppc/SASE	6815	ICI09	150 w	js38
INS-Palembang R.	31	lt/- (via Jakarta)	8705,4	PKC	1000 w	js38
INS-Ujung Pandang Aero	41	f/d lt 2 f/up`s	11396			lrG
IW -MV CSO wellservicer	13	ppc,i,lt,fo/SASE	2182	MGGL8		gsLX
IW -MV Capella	28	ppc/SASE	2182	MNFW9	150 w	gsLX
IW -MV DLB1601	30	ppc/SASE	2182	FNPU	400 w	gsLX
IW -MV Egitto Express	33	ppc/SASE	2182	IBSD	400 w	gsLX
IW -MV Grampian Otter	47	ppc,lt/SASE	2182	GDJX	400 w	gsLX
IW -MV Highland Fortress	41	ppc,i/SASE	2182	GTBD	400 w	gsLX
IW -MV Highland Star	15	ppc,i/SASE	2182	MNA44		gsLX
IW -MV Luminence	22	ppc/SASE	2182	C6KU3	600 w	gsLX
IW -MV Pacific Barbarian	15	ppc,i/SASE	2182	3FGH7	400 w	gsLX
IW -MV Putford Ajax	24	ppc/SASE	2182	MLRD6	150 w	gsLX
IW -MV Putford Aries	34	ppc,fo/SASE	2182	GWAS	400 w	gsLX
IW -MV Toisa Petrel	24	ppc/SASE	2182	C6KA7		gsLX
IW -MV Veesea Topaz	27	ppc,lt/SASE	2182	ZHFX6	250 w	gsLX
IW -MV Viking Sentinel	22	ppc,lt/SASE	2182	GJBL	100 w	gsLX
IW -RV American Explorer	34	ppc,i/SASE	2182	YJZW5		gsLX
IW -RV Cirolana	40	ppc,i/SASE	2182	GNAM		gsLX
MRC-MAP Rabat	39	lt f/up	18221	CNM		lrG
NOR-Rogaland R.	68	cd via Globe w.	1930	LFI		lrG
NOR-Rogaland R.	51	cd via Globe w.	17204	LFI		lrG
NZL-Taupo Maritime R.	20	lt,i 2 f/up`s	6224	ZLM		lrG
POL-Witowo R.	15	lt f/up	2643,5	SPS		lrG
POR-Ny Alges	35	lt	2182	CTV		lrG
THA-Bangkok Meteo	20	f/d folder f/up	8743	HSW		lrG
USA-Liberty Star	20	ppc,lt,ph,info/USD	10780	WRPH	1000 w	js38
VTN-Danang R.	35	ppc/USD	8570	XVT		js38

## Membership and Money corner:

We have to welcome 2 new members: a1EU (from Germany) and Paolo pdCH from Switzerland. Nice to have you with us!!

Membership fee is kindly requested from Peter (pcG)(since May 98), Lionel (lrG) and Gurdip (ggG) (both for 7/98).

## Addresses/Infos/Veri-signers:

\*) Cf HWI-San Francisco Aero: The transmitter of San Francisco on 17946 khz is located on the island of Molokai in Hawaii. This was clearly stated in the QSL letter. It seems that ARINC have remoted all Honolulu operations to San Francisco Aero. (lrG)

NDB Isle of wight/IW: v/s Stephen Knowles, Service Engineer (lrG)

NDB Lyneham/LA: v/s P. Sobers, Flt Lt Oc CE Flt (lrG)

NDB Leeds/LBA: Leeds/Bradford Airport, Leeds LS19 7TU (v/s Glen Appleyard, Technical Services Manager (lrG)

NDB Heathrow/HRW: Room 312, Control Tower Building, Heathrow Airport - London



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Hounslow, G- Middlesex TW6 1JJ (v/s M. Aldridge, Engineering Manager)(lrG)  
 NDB Exeter/EX: v/s Mike Foster, Technical Manager (lrG)  
 NDB Manchester/MCH: NATS Ltd., Room 301, Tower Building, Manchester Airport, M90 2PL (v/s Mel Dickson)(lrG)  
 NDB Stanstead/SSD: NATS Ltd., Control Tower Building, Bassingbourn Road, Stanstead Airport, G- Essex CM24 1AH (v/s G. O'Neil, Engineering Manager)(lrG)  
 NDB Coventry/CT: v/s R.M. Elcocks, Senior Technical Officer (lrG)  
 NDB Luton/LUT: London Luton Airport, Percival House, Percival Way, Luton, Beds LU2 9LY (v/s Peter Dohing, Air Traffic Engineering Manager)(lrG)  
 Rome R./IAR: Telecom Italia, Direzione Generale, Casella Postale AD2420, I-00100 Rome (lrG)  
 Bangkok Meteo/HSW: v/s Suparek Tansrirattanawong, Dir. Of Telecomm. Div. (lrG)  
 Taupo R./ZLM: Maritime Operations Centre, Percy Cameron Str., P.O. Box 30945, Lower Hutt, Wellington (v/s Anita Andrew, Radio Operator)(lrG)  
 San Francisco Aero: Aeronautical Radio Inc., 6011 Industrial Way, Livermore, CA 94550 (v/s duane Lighty, Manager Air/Ground Services)(lrG)  
 MAP Rabat/CNM: v/s Abdeljalil Fenjiro, General Director (lrG)  
 Compamare Mazara del Vallo: Capitaneria di Porto, Via Lungo Fata Morgana, sn, I-91026 Mazara del Vallo (gsLX)  
 Compamare Rimini: Capitaneria di Porto, Via Destra Del Porto, I-47900 Rimini (gsLX)  
 Humber MRSC: Lime Kiln Lane, Bridlington, North Humberside YO15 2LX, UK (gsLX)  
 Kuressaare MRSC: Saarema Piirivalve Piirkond, Tallinna Mnt 19, Kuressaare, EE-3300 (gsLX)

3FGH7: Swire Pacific Offshore Services Ltd., Unit 4, Commerce, Centre, Souter Head Road, Altens, Aberdeen AB2 3LF, Scotland  
 C6KA7: Sealion Shipping Ltd., Sealion House, The Courtyard, 17 West Street, Farnham, Surrey GU9 7DR  
 C6KU3: Crescent Shipping Ltd., Hays House, Otterham Quay Lane, Rainham, Gillingham, Kent ME8 7UN  
 FNPU: ETPM, 57 Avenue Jules Quentin, BP 207, F-92 002 Nanterre Cedex, France  
 GDJX: North Star Shipping Ltd., 207 Albert Quay, Aberdeen AB9 2FS, Scotland  
 GJBL: Viking Standby Ltd., Annat House, South Quay, Ferryden, Montrose, DD10 9UB  
 GNAM: Ministry of Agriculture & Fisheries, Fisheries Laboratory, Pakefield Road, Lowestoft, Suffolk NR33 0HT, UK  
 GTBD+MNAA4: Gulf Offshore N.S. Ltd., Salvesen Tower, Blaikies Quay, Aberdeen AB1 2PW  
 GWAS+MLRD6: Putford Enterprises Ltd., Columbus Buildings, Waveney Road, Lowestoft, Suffolk NR32 1BS, UK  
 IBSD: Adriatica di Navigazione, CP 705, Zattere 1411, I-30123 Venezia  
 MGGL8: Coflexip Stena Offshore Ltd., Stena House, Westhill Industrial Estate, Aberdeen AB32 6TQ  
 MNFW9: Tidewater Marine North Sea Ltd., Souter Head Road, Altens Industrial Estate, Aberdeen AB12 3LF  
 YJZW5: Petroleum Geo Services, Strandveien 4, N-1324 Lysaker, Norway  
 ZHFX6: Vector Offshore Ltd., Vector House, Marine Base, South Denes Road, Great Yarmouth, NR30 3QQ, UK (all by gsLX)

Inquiries Department:

To Lionel (lrG): SILVAIR Miami: 7126 NW 50th Street, Miami, FL 33166 (ed)  
 Lionel is also looking for an address for LDOC Cedar Rapids. Anyone?

My rr to Flight Support Lima came back. Address used: American Airlines Lima, Casilla 683, Lima 1. Anyone with an updated address? (ai47)

What about a DX-weekend? Norbert (nr76) makes the suggestion, that we can meet each other during the wintertime (e.g. the weekend before X-mas) in small alpine hut in southern Germany where it is possible to install some longwires or beverage-antennas. Anyone who has access to such an alpine hut? (Maybe Norbert has access to a hut near `Donaueschingen`). Anyone who is interest should contact me. Really a nice idea, I think.

A big `thank you` to the following (9) contributors: pt53, lrG, ewAU, abNL, nr76 (nr79=nr76 on the top of a hill near Feldberg), zeTC, wk08, gsLX, js38 gd dx + 73`s; until next month

Andreas

## EUROPEAN UTILITY NEWSLETTER 8/9-98

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*****
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* foreign currency - no cheques please!!                               *
*
*                               Deadline: 20th of the month!!!          *
*****

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Good morning freaks,

Hope you have enjoyed your summer holidays and are prepared for another EUNL round. Please note, that there are a new versions of the EUNL-Callsign List (updated and now more than 9800 callsigns) and the DF - Circle List of Alan Gale (new layout - increased to 35 pages in word format!!) available at the homepage. We are starting with some nice stuff:

## N D B

286,5	0210	FI	Cala Figuera Lt.	E	id+dash		rk50
286,5	0250	FT	Cap Ferret Lt.	F	id+dash		rk50
289,5	0205	NP	Punta Carena Lt.	I	id+dash		rk50
290	2350	TR	Tirana	ALB	id		rk50
290,5	0245	VI	Cabo Villano Lt.	E	id+dash	with 59+20dB!	rk50
293	1513	OB	Brussel-Zaveltem	BEL	cw		abNL
293,5	0241	RO	Cabo silleiro Lt.	E	id+dash		rk50
296	1440	GR	Goeree light	HOL	cw		abNL
297	0713	FG	Barfleur Lt.	F	id+dash		rk50
297,5	0222	PS	Cabo Penas Lt.	E	id+dash		rk50
298	0232	GX	Ile de Groix Lt.	F	id+dash		rk50
300,5	1128	DU	Dungeness Lt.	G	id+dash		rk50
301	1421	ER	Eierland light	HOL	cw		abNL
301	0226	CA	Creac'h Lt.	F	id+dash		rk50
302,5	1134	FB	Flamborough Head Lt.	G	id+dash		rk50
304,5	0227	MY	Cabo Mayor Lt.	E	id+dash		rk50
319	0244	BGR	Bagur	E	id		rk50
321	0244	ABT	Albacete	E	id		rk50
325	0143	AC	Glasgow	G	id		rk50
325	0210	DP	Diepholz	D	id+dashes		rk50
326	1420	LLS	Lelystad	HOL	cw		abNL
326	0213	RSH	Dublin/Rush	IRL	id		rk50
327	1443	MVC	Merville	F	cw		abNL
332	1445	NV	Amsterdam	HOL	cw		abNL
335	0222	RIM	Rimini	I	id		rk50
335	0246	TRL	Torralba de Aragon	E	id		rk50
336,5	1432	NIK	Nicky	BEL	cw		abNL
337	0223	AH	Alghero	I	id		rk50
341	0228	LAU	Lichtenau	D	id		rk50
342	0247	AL	Mirolawiec	POL	id		rk50
348	0155	ZZA	Zaragoza	E	id		rk50
350,5	1431	ROT	Rotterdam	HOL	cw		abNL
352	2251	ENS	Ennis	IRL	id		rk50
352,5	1500	DD	Oostende light	BEL	cw		abNL
353	0236	SB	Saint Briec	F	id+dash		rk50
360,5	1423	MAK	Mackel	BEL	cw		abNL
369	1427	PS	Heenvliet (Rotterdam)	HOL	cw		abNL
374	0015	DHR	Dahra	LBY	id+dash		rk50
376	1433	WP	Amsterdam	HOL	cw		abNL

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378	2302	KLY	Killiney	IRL	id	rk50
380	2255	KA	Tirana	ALB	id	rk50
380	0243	VNV	Villanueva	E	id	rk50
382	0317	LAR	Arruda	POR	id	rk50
383	0245	MAR	Marseille	F	id+dash	rk50
386	1425	STD	Stad-aan-het-Haringvliet	HOL	cw	abNL
387	1425	ING	St.Inglevert	F	cw	abNL
387	0143	SLT	Sylt	D	id+dashes	rk50
388,5	1430	CH	Amsterdam	HOL	cw	abNL
393	1502	DEN	Dendermonde	BEL	cw	abNL
395	1435	OA	Amsterdam	HOL	cw	abNL
395	2348	B	Bilbao	E	id	rk50
395	2306	FOY	Foynes	IRL	id	rk50
397	2308	OP	Dublin	IRL	id	rk50
397a	0159	FNZ	unid	?	id	rk50
399,5	1437	ONO	Oostende	BEL	cw	abNL
401	0137	FNL	Fenland	G	id	rk50
404	1438	MRV	Merville	F	cw	abNL
404	0235	LRD	Lerida	E	id	rk50
404,5	1438	RR	Rotterdam	HOL	cw	abNL
409	0247	DGO	Domingo	E	id	rk50
421	0300	GE	Madrid/Getafe	E	id	rk50
431	0057	SAY	Stornoway	G	id	rk50

## F I X E D

3116	0535	DRDK	FGS U-17	IW	OM E r/c w/Glucksburg Res, mo76	
3410	2030	M17	numbers station	?	CW 66128 dots 27 27 =5FG VA	abNL
3768,5	1945	FDC	AF Metz	F	cw-vvv	a1EU
3824	2000	M10	numbers station	?	diff, fm normal M10 format,	abNL
3840	1945		Mossad/Israeli Intell.	ISR	am-YL,E 5 lgs	a1EU
3910	2050	M17	numbers station	?	CW 66128 dots 27 27 =5FG VA	abNL
4270	2038		Mossad/Israeli Intell.	ISR	am-YL, 5 lgs	a1EU
4317	1818	FDE14	AF Contrexeville	F	cw-vvv	a1EU
4435	1445	ISL	unid, Italian Military	I	usb sx, w/IV5 mobile	a1EU
4443	2206	VLDR	unid, (static) tactical	?	cw-5 lgs, time: CEST	a1EU
4460	2000		Mossad	ISR	AM FTJ2 broadcast	abNL
4465	2140	DPQT	Unid -vy often reported-	?	CW 5LG's	abNL
4740	2110	M17	numbers station	?	CW 66128 dots 27 27 =5FG VA	abNL
4474	0534	IGDF	Caprera	IW	OM It wkg ICT 2	mo76
4501	2118		Unid	?	CW xmits time hhmm UTC+4	abNL
4503	2221		unid, Russia ?	?	cw-time 0221 0221 ..	a1EU
4515,5	1832	FDG	AF Bordeaux	F	cw-vvv	a1EU
4518	1940	FDI22	AF Narbonne	F	cw-vvv	a1EU
4559	1105		FAPSI/Russian Intell.	?	cw-739 (3x) T857T (3x)	a1EU
4560	1953		Mossad/Israeli Intell.	ISR	am-YL, 5 lgs	a1EU
4594	1125	P3D8	unid, tactical	?	cw-w/?,sx,time: CEST	a1EU
4598	1843	FDG	AF Bordeaux	F	cw-vvv	a1EU
4739	1822		FAPSI/Russian Intell.	?	cw-mkr 53263,5FGS/T,end=SK	a1EU
4787	1628	VLDR	unid, (static) tactical	?	cw-5 fgs/0, cfm-tfc	a1EU
4864	1743	TLPL/etc	unids, tacticals	?	cw-cfm-tfc:DE TLPL R78 K	a1EU
4922,5	0130	FDG	AF Bordeaux	F	cw-vvv	a1EU
5001	1905	4XZ	INy Haifa	ISR	cw-vvv	a1EU
5009	1615	DPQT	unid, tactical	?	cw-5 fgs, 0=0	a1EU
5011	1617	CVLO	unid, tactical	?	cw-to TX8B	a1EU
5027	1400		unid, Number Station	?	YL Czech 5x2fgs ->616	a1EU
5028	2100	M10	numbers station	?	CW 555x3 783x3 32 961x3	50abNL
5038	2205	FDY	AF Orleans	F	BAUDOT 50 Test tape	abNL
5050	0900	M3	numbers station	?	cw 015/57 + 5FG	abNL
5055	1820	R282	unid, NATO Military(Eur)?	?	usb w/V212, T58	a1EU
5064	1935	9MB	Ny Georgetown	MLA	cw-vvv	a1EU
5068	1320	ISL	unid, Italian Military	I	usb w/IM4, IV5	a1EU
5087,5	1410	6IZ	unid, NATO Military(Eur)?	?	usb w/MIND READER	a1EU
5091	1936		Mossad/Israeli Intell.	ISR	am-YL,E 5 lgs	abNL+a1EU
5113	1548	UKWO	unid, tactical	?	cw-w/xxxx, QSA?-RK	a1EU
5118	1625	M6PA	unid, tactical	?	cw-w/CKBD, QSA?-tfc	a1EU
5120	1455	FDI22	AF Narbonne	F	cw-vvv	a1EU
5132,5	1455		unid, Polish	POL	usb OM, `Uwaga` anns	a1EU

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5144	1410	DHO24	unid, GAF / GN ?	D	w/34XC fr data coord.	a1EU
5153,8	1858	RMP	RNY Kaliningrad	KAL	cw-ch.-mkr P	a1EU
5153,9	0130		Ny Archangelsk	RUS	cw-ch.-mkr S	a1EU
5154	1930	RCV	Ny Moscow	RUS	cw-ch.-mkr C	a1EU
5170	0145		Mossad/Israeli Intell.	ISR	am-vmf EE `CIO2`	a1EU
5178	2257		Backward Music station	?	same sig.strength as 6753k	abNL
5180	2100	S12	Cherta numbers stn	?	usb 971/00	abNL
5206	1345	CONTROL	unid, British RNY	?	usb wkg KA, KD, KO	a1EU
5213,5	1500		unid, Polish	POL	usb OM, `Uwaga` anns	a1EU
5217,5	2010		Russian Air Defence ?	RUS	cw-=99TT1T??8?????	a1EU
5229	1433	GP3J	unid, tactical	?	cw-w/MC3F	a1EU
5226	1325	VLDR	unid, (static) tactical	?	cw-5 fgs,0=0,cfm-tfc	a1EU
5230	0117		Mossad/Israeli Intell.	ISR	am-vmf E `KPA2`	a1EU
5240	1700	2RR7	unid, Italian Army	I	usb w/1L48	a1EU
5245	1520	7DYA	unid, Italian Army	I	usb c/4NOE,NH3G,ZM3W	a1EU
5245	1946	MRV92	Royal Tournament London	G	USB w/MRU18, MRA01, MRQ30	abNL
5245	1004	MRC01	RAF Cadets	G	USB: MRB01,MRC01,MRV20,MRH19,	
		MRC28,	MRU18, MRL47, MRV92 (maintaining flightwatch for RT98)			abNL
5245	1048	MRC01	Royal Tournament London	G	USB w/Speedbird 84	pcG+abNL
5268	1441	HEP5	Police Zurich	SUI	cw-vvv	a1EU
5340	1336		FAPSI/Russian Intell.?	?	YL,E 5x2fgs,end:`end`	a1EU
5342	0120	FDY	AF Orleans	F	cw-vvv	a1EU
5347,5	2134	A1	Dutch Army	HOL	usb tact,talks+50bd RT 5349	abNL
5355	0328		FAPSI/Russian Intell.?	?	YL,E 5x2fgs,end:00000	a1EU
5365	2100	S6	Russian Man	RUS	AM 826 00000	abNL
5367,5	1550		unid FAF	F	usb vmm F	a1EU
5391	1710	V	unid, Russian Navy	RUS	cw-channel-marker v	a1EU
5428	1900	M12	numbers stations	?	CW 941 000	abNL
5431	1853	D8E	unid, NATO Military(eu)	?	usb w/X5U	a1EU
5435	1902		Mossad/Israeli Intell.	ISR	am-vmf E `ART2`	a1EU
5437	1831		Mossad/Israeli Intell.	ISR	am-vmf `ART`	a1EU
5446,5	1010	FDC	AF Metz	F	cw-vvv	a1EU
5471,6	1508	LN2A	Norsk Telecom Sveio	NOR	cw-beacon,CW-id,data	a1EU
5475	1514		FAPSI/Russian Intell,?	?	cw-5x2 fgs, T=0	a1EU
5486	1429	Euro 05	unid, Italian Military	?	usb w/Euro 00	a1EU
5486	1637	Euro 00	unid, Italian Military	?	usb c/Euro 04	a1EU
5508	0325	5UDR	unid, tactical	?	cw-clg 1A0B, etc,	a1EU
5567,2	0813		Australian net	AUS	aussie drongos	ewAU
5705	1013		unid, tent FAPSI/Russ,	?	cw-5x2 fgs, T=0	a1EU
5730,9	1513	FDI22	AF Narbonne	F	cw-vvv	a1EU
5770	1330	MERCATO	unid, Swiss Military	SUI	LSB:w/SYDNEY,QSY VNHU	a1EU
5812	2010	M1B	numbers station	?	CW 729 682 682 65 65 ==	abNL
5812,5	1512	FDG	AF Bordeaux	F	cw-vvv	a1EU
5820	1514	3 BRAVO	unid, German Military	D	w/GEA, coord,fr data	a1EU
5820	1557		Mossad/Israeli Intell.	ISR	am-vmf: YHF	a1EU
5830,8	1520	CIXT	unid, tactical	?	cw-wkg VB9L, QRK?	a1EU
5860,5	1025	FDE14	AF Contrexeville	F	cw-vvv	a1EU
5861	1540	FDI22	AF Narbonne	F	cw-vvv	a1EU
5868	1610	FDI22	AF Nice	F	cw-vvv	a1EU
5925	1030	FDI22	AF Narbonne	F	cw-vvv	a1EU
5965	1447		FAPSI/Russian Intell.?	?	cw-5x2 fgs,end: T T T	a1EU
6695	1934		whale station	?	TONES	abNL
6695	2255		Backward Music station	?	very strong (+20 db)	abNL
6730	1812	EBIA	unid, SNY Vessel ?	?	usb w/unid, wx-rpt	a1EU
6753	2256		Backward Music station	?	strong, weaker than 6695kHz	abNL
6768	1040	FDG	AF Bordeaux	F	cw-vvv	a1EU
6771	1453	MK8W	unid, tactical	?	cw-to ST3Q, Z-groups	a1EU
6779	1220	DRAX	FGS Gorch Fock	IW	OM E wkg DHJ59	mo76
6779	0848	DRFJ	GNys Passau	IW	usb clg DHJ59 No joy	abNL
6780	0700	M1	numbers station	?	CW 025 (R4) 66331 46 +5FG	abNL
6797	0800	M8	numbers station	?	CW DUUUA UDNMN ATWRN== +5LG	abNL
6815	1045	ICI	ICG Rome	I	usb wkg NA1	a1EU
6815	1045	NA1	unid, ICG Air Station	I	usb wkg ICI	a1EU
6815	1100	KOALA902	unid, Helicopter	AIR	usb wkg NA1	a1EU
6815	1105	NA2	unid, ICG Air Station	I	usb wkg NA1	a1EU
6815	1105	IGUT	ICG M/V Bannock (CP451)	IW	usb wkg ICI	a1EU
6815	0200	IHVM	ICG Vessel	IW	usb clg ICI	a1EU
6844,5	0055	FDC	FAF Metz	F	cw-vvv	a1EU

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6865	1125	FDG	FAF Bordeaux	F	cw-vvv	aLEU
6867	1250	GS4R	unid tactical	?	cw-clg OPM8	aLEU
6871	1315	HEP7	Police Zurich	SUI	cw-vvv	pcG+aLEU
6871	1322	DADU	unid, tactical	?	cw-clg 8WI6	aLEU
6871,5	1940	FDG	AF Bordeaux	F	cw-vvv	pcG
6873	1650	RMP	RNy Kaliningrad	RUS	cw-wx to REO	aLEU
6873,5	1252	ICS	INy La Spezia	I	usb wkg unid	aLEU
6880	1300	DORIA	unid INy (vessel?)	?	usb wkg TAVOLA 1	aLEU
6880	1839	Doria	UNID	?	OM It`Tavola Una da Doria`	mo76
6880	1839	Tavola Una	UNID	?	OM It`Doria da Tavola Una`	mo76
6883	1830	WT3M	Italian Army tactical	I	usb msgs	aLEU
6883	1257	2EU7	Italian Army tactical	I	usb clg OTGI	aLEU
6900	2000		Lincolnshire Poacher	CYP	USB Id 89125	abNL
6934	2010	M12	numbers station	?	CW 658 4383 148+5FG 000 000	abNL
6934	0812		UNID	?	cw 5 ltr grps of with ++	ewAU
6959	2139		FAPSI/Russian Intell .?	?	usb YL,E 5x2 fgs	aLEU
6992,5	1043	MFJ04	RNy Cadets	G	USB:MFM01,MFJ04,MFQ39,MFJ13	abNL
7470,7	1230		Unid	?	mv/F: Ceci est une emission de	
			calorie destinee an reglage de votre recepteur,		(count:Lundi-Dimanche,61-67)	dp47
8191	1810	M10	numbers stations	?	CW 555 661 38 423 22	abNL
8335,5	0803	DREA	FGS Schleswig	IW	OM E clg DHJ59 for r/c`	mo76
8913	1423		FAPSI/Russian Intell. ? ?	?	cw-5x2 fgs, end:TTT	aLEU
9285	2254		Backward Music station	?	weak signal	abNL
9441	0600	XPH	Polytone station	?	TONES null message	abNL
10192,5	1604	DRDJ	FGS U-16	IW	OM E clg DHJ59 for r/c	mo76
10192,5	1716	DRHM	FGS werra	IW	wkg DHJ59	mo76
10471,8	1330		Unid	?	mv/F: Ceci est une message d`	
			esai an reglage de votre recepteur,		(count:Lundi-Dimanche,301-310,Janv-Dec)	dp47
11041	0620	XPH	Polytone station	?	TONES Long msg,5min ld sig,	abNL
12141	0640	XPH	Polytone station	?	TONES Long msg,5min ld sig,	abNL
14487	1400		Lincolnshire Poacher	CYP	USB Id 89125 //15862 khz	abNL
14931	0355	8BY	UNID	F	cw-vvv vvv vvv de 8by	ewAU

## M A R I T I M E

444,5	1452	PCH	Scheveningen R.	HOL	cw Tfc list	abNL
447,5	1428	LGQ	Rogaland R.	NOR	cw wx forecast	abNL
1930	2136	LFI	Rogaland R.	NOR	CW wkg sitor-id	ti47
3800	2009		German Civil ships	IW	USB smalltalk: harbour ops	ti24
3890	1950	UWS	Kiev R.	UKR	cw-tfc	aLEU
4066a	1855	TBO	Ny Izmir	TUR	cw-vvv,bad modul.	aLEU
4211	1250	ZLA	Awanui R.	NZL	cw-id	ewAU
4219	1247	UDB	Kholmsk	RUS	cw-stn mkr	ewAU
4232,5	1227	VRX	Hongkong R.	CHN	cw-stn mkr	ewAU
4240,5	1223	XSG	Shanghai R.	CHN	cw-stn mkr	ewAU
4241	2042	LGW	Rogaland R.	NOR	cw-mkr	aLEU
4241	1808	4XZ	Ny Haifa	ISR	cw-vvv	aLEU
4253	2041	TAH	Istanbul R.	TUR	cw-QSX-mkr	aLEU
4260	2040	TBA2	Ny Ankara	TUR	cw-vvv	ti24+aLEU
4271	1810	OFJ4	Helsinki R.	FIN	cw-mkr	aLEU
4273	2038	SAA	Karlskrona R.	S	cw-cq-mkr	aLEU
4274	2036	GKB2	Portishead R.	G	cw-QSX-mkr	aLEU
4275	2035	TBA5	Ny Ankara	TUR	cw-vvv	aLEU
4277	1811	USO5	Izmail R.	UKR	cw-tfc, id	aLEU
4283	1100	XSV	Tianjin R.	CHN	cw-stn mkr	ewAU
4294	1850	SXA34	Ny, Piraeus ?	GRC	cw-vvv	aLEU
4303	1815	OXZ2	Lyngby R.	DNK	cw-cq-mkr	aLEU
4313	1115	9VG	Singapore R.	SNG	cw-channel mkr	ewAU
4314	1817	LZW26	Varna R.	BUL	cw-de LZW26	ti24+aLEU
4317	1848	ZSC33	Cape Town R.	AFS	cw-cq-mkr	aLEU
4331	1820	4XZ	Ny Haifa	ISR	cw-5 fgs	aLEU
4339	1959	LFI	Rogaland R.	NOR	CW wkg sitor id	ti24
4343	2019	SVA2	Athens R.	GRC	cw-de SVA3	aLEU
4346	2019	9AR	Rijeka R.	HRV	cw-vvv	ti24+aLEU
4350	2018	TBB5	Ny Ankara	TUR	cw-vvv	ti24+aLEU
4352,3	1826	ZRH	Ny Silvermine	AFS	cw-de mkr	aLEU
4387	2010	OSU21	Oostende R.	BEL	usb DD, id	aLEU
4390	2012	UIW	Kaliningrad R.	KAL	usb RR. id	aLEU

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4426	1958	SVN24	Athens R.	GRC	usb cw-mkr: de SVS	aLEU
4432	1454	LGN21	Rogaland R.	NOR	usb NN, id	aLEU
4343	1018	WLO	Mobile R.	USA	cw-mkr	ewAU
4402	1305	KMI	Dixon Radio	USA	usb-wx forecast	ewAU
4426	1047	NMC	USCG San Francisco	USA	usb-wx forecasts	ewAU
6382	2031	TBA6	Ny Ankara	TUR	CW wkg id VVV VVV	ti24
6467	2033	LFI	Rogaland R.	NOR	CW wkg sitor-id	ti24
6501	0936	NRV	USCG Apra Harbour	GMU	usb wx info north pacific	ewAU
6502	0058	TBB2	Ny Ankara	TUR	cw-vvv to TBDJ	ti24+aLEU
6507	2338	SAG	Goteborg R.	S	usb wx info	ewAU
8297	2142		Wellington (Taupo?-ed)	NZL	usb wx info	ewAU
8434	0806	WLO	Mobile R.	USA	cw-stn mkr	ewAU
8459	0423	LSD836	Argentina R.	ARG	cw-id every 23 sec,+SITOR	mo76
8461	0815	PKD	Surabaya R.	INS	cw-stn mkr	ewAU
8506	1058	XSX	Keelung R.	TWN	cw-mkr with tfc list coming	ewAU
8574	0555	LGB	Rogaland R.	NOR	cw-de lgb lgx	ewAU
8633,9	0955	PPR	Rio R.	B	cw-stn mkr	ewAU
8665	2051	XSG	Shanghai R.	CHN	CW wkg CQ CQ DE XSG XSG	ti24
8683	0839	LFI	Rogaland R.	NOR	CW wkg sitor-id	ti47
8731	1133	WOM	Pennsuco R.	USA	usb priv, phone conversation	ewAU
8764	1049	NMC	USCG San Francisco	USA	usb wx forecasts california	ewAU
8782	1335	BVA	Taipei R.	TWN	usb lady speaking in chin,	ewAU
8797	1333	HLS	Seoul R.	KOR	usb priv,phone conversation	ewAU
10722	1308	DRHJ	FGS ELBE	IW	USB wkg DHJ59, msgs qsl	ti47
12589	0657	NMO	USCG Honolulu	HWI	cw-chnl mkr	ewAU
12596	0652	WLO	Mobile R.	USA	cw-stn mkr	ewAU
12596,5	0650	PCH	Scheveningen R.	HOL	cw-chnl mkr	ewAU
12662	0820	7TF8	Boufarik R.	ALG	cw-stn mkr	ewAU
12678	0929	LFI	Rogaland R.	NOR	CW wkg sitor-id	ti47
12753,5	0657	OXZ	Lyngby R.	DNK	cw-chnl mkr	ewAU
12823,5	0623	CTP	NATO Lisbon	POR	cw-stn mkr	ewAU
12826,5	0630	WNU	Slidell R.	USA	cw-stn mkr	ewAU
12940	0625	LZW53	Varna R.	BUL	cw-stn mkr	ewAU
12979,5	0652	VIM	Melbourne R.	AUS	cw-wx forecast	ewAU
13092	1330	WOM	Pennsuco R.	USA	usb-phone conversation	ewAU
13161	0143	VIS	Sydney R.	AUS	usb-priv, phone call	ewAU
17169	0757	A9M	Hamala R.	BHR	cw	ewAU
17275	0158	UHS	Murmansk R.	RUS	usb russian op, talking	ewAU

## A E R O (Ground - stations)

4645	1835		Tallinn ATIS	EST	OM,E Bull,	aLEU
4663	2142		Tashkent Meteo	UZB	YL,R Volmet	aLEU
4712	2149		Mineralny Vody Radio	RUS	clg Koltsovo Radio	aLEU
4712	2150		Rostov Radio	RUS	w/Mineralny Vody R	aLEU
4712	2150		Samara Radio	RUS	w/Mineralny Vody R	aLEU
4712	2150		Volgograd Radio	RUS	w/Mineralny Vody R	aLEU
4728	2200		Ashkhabad Radio	TKM	w/Tashkent Radio	aLEU
4742	2200	ARCHITECTRA	STCICS (Ch,: FS)	G	OM,E QNH-wx	aLEU
5085	1500		Russian/CIS Domestic Aero Net		`tacticals`	aLEU
5450	1630	MVU	RAF Volmet	G	OM,E Volmet	aLEU
5493	0320	9PL	Kinshasa Air	ZAI	w/Springbok 251	aLEU
5505	1631	EIP	Shannon volmet	IRL	OM,E Volmet	aLEU
5517	0120		Sana`a Air	YEM	c/Nairobi	aLEU
5517	0120	ETD3	Addis Ababa Air	ETH	w/Khartoum,Asmara	aLEU
5517	0122		Asmara Air	ERI	w/Addis	ewAU+aLEU
5517	0125	STK	Khartoum Air	SDN	w/Sana`a	aLEU
5517	0125	SUC	Cairo Air	EGY	w/Khartoum	aLEU
5517	0125	5AF	Tripoli Air	LYB	w/Springbok 252	aLEU
5517	2315		Entebbe Air	UGA	w/unid flight	aLEU
5517	2005	5YD	Nairobi Air	KEN	w/Addis	ewAU+aLEU
5643	0813		Honolulu Aero	HWI	receiving posn rpt	ewAU
5643	0853		Brisbane Aero	AUS	usb-clg Air NewZealand 106	ewAU
5680	1352	GFF	RAF Kinloss Rescue	G	w/Rescue 137	abNL+aLEU
5687	1408	DHO60	GAF Hohn	D	w/unid, id as: 60	aLEU
5687	1530	DHM91	GAF Munster	D	w/unid a/c	aLEU
5687	0641	DHO23	GAF Landsberg	D	OM E r/c w/ Thirty two	mo76
5687	0641	DHO32	GAF wunstorf	D	OM E r/c w/ Twenty three	mo76

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5708	1617	ARMOR	FNy Loperhet (Brest)	F	w/8P2	a1EU	
5714	1425	ARCHITECTRAF	STCICS (Ch,: B)	G	OM,E wx	a1EU	
6604	0755		Gander Volmet	CAN	volmet broadcast	ewAU	
6604	1013		New York Volmet	USA	usb volmet info	ewAU	
6724	1443		RAF Buchan (Ch,:TG)	G	track infos to 7Z0	a1EU	
6739	1430	ARCHITECTRAF	STCICS	G	OM,E Colour-wx	a1EU	
8095	1132	RADAN	St,Petersburg Air	RUS	YL,R w/YAROK	a1EU	
8095	1132	YAROK	Kiev (Borispol) Air	UKR	YL,R w/RADAN	a1EU	
8095	0108		Petersburg Meteo	RUS	OM,R Volmet	a1EU	
			might be a tape-recorded copy as relay ?)				
8819	1953		Tashkent Meteo	UZB	YL,R Volmet	a1EU	
8825	0040	KEA5	New York Air	USA	w/KLM 0776	a1EU	
8828	0923		Auckland Volmet	NZL	usb-volmet,wx for pago pago	ewAU	
8828	0926		Honolulu Volmet	HWI	usb wx for anchorage	ewAU	
8861	1957		Irkutsk Meteo	RUS	YL,R Volmet	a1EU	
8861	1957	6VU	Dakar Air	SEN	w/Air Afrique 9952	a1EU	
8867	0445		Auckland Aero	NZL	wkg NZ Air 183	hb31	
8867	0501		Nadi Aero	FJI	wkg UNID	hb31	
8888	1608		Koltsovo Meteo	RUS	YL,R Volmet	a1EU	
8888	1610		Novosibirsk Meteo	RUS	YL,R Volmet	a1EU	
8891	0040		Bodoe Air	NOR	w/Iceland	a1EU	
8891	1345	TFW	Reykjavik `Iceland`	ISL	w/Aeroflot 321	a1EU	
8894	2315		Algiers Air	ALG	w/KLM 0588	a1EU	
8894	2315	5AF	Tripoli Air	LBY	clg QRZ	a1EU	
8903	0140	TTL	N`Djamena Information	TCD	w/Sabena 554	a1EU	
8903	2107	9PL	Kinshasa Air	ZAI	w/Speedbird 2052	a1EU	
8903	0142		Luanda Air	ANG	c/unid flight	a1EU	
8903	2315		Bangui Air	CAF	w/N`Djamena	a1EU	
8903	1413		Naha Aero	J	usb clg korean air flight	ewAU	
8903	1324		San Francisco Aero	USA	usb w/ unid United Airlines	ewAU	
8933	0125		New York (LDOC ?)	USA	w/United ,s/c AG-KR	a1EU	
8978,5	2215		Reykjavik Air	ISL	ACARS HF=DataLink squitter	abNL	
10033	2345		Silvair Miami	USA	wkg Connie 801	lrG	
10291	1023		Portishead Radio	G	w/Britannia OL 407	a1EU	
11232	1049		Gander Aero	CAN	usb wx info	ewAU	
13339	0119		San Francisco Aero	USA	wkg unid a/c	lrG	
13348	0039		LDOC Cedar Rapids	USA	wkg a/c 440	lrG	
17913	2310		LDOC VARIG Recife	B	wkg unid a/c	lrG	
17922	2309		LDOC BA London	G	clg unid a/c	lrG	
17925	1428		Springbok Johannesburg	AFS	wkg Springbok plane		
hb31							
17925	1446		Saudia Jeddah	ARS	wkg Saudia 112	hb31	
17940	0023		LDOC Cedar Rapids	USA	wkg a/c 440	lrG	
17943	0048		LDOC VASP Recife	B	clg LDOC Manaus	lrG	
17946	2248		San Francisco Aero	HWI	wkg a/c 6997 DM-BQ	lrG	

## A E R O (aircrafts)

5517	0055	F-GTDF	AOM / French Liner 802	AIR	w/Cairo, s/c FL-CM	a1EU
5517	0020	F-BPVY	Air France 3840	AIR	w/Cairo, a/c EJ-BM	a1EU
5541	1602	ReachF6	`of Evergreen Air`	AIR	s/c CG-AK, w/Stockholm	a1EU
5598	0320	N646US	US Air 12	AIR	w/Santa Maria,s/c BF-CP	a1EU
5598	0210	N70074	American 146	AIR	w/Shanwick, s/c BP-GL	a1EU
5598	0200	N771UA	United 946	AIR	w/Gander, s/c AQ-CH	a1EU
5598	0200	N766DA	Delta 108	AIR	w/Gander, s/c CK-BJ	a1EU
5598	0330	N651TW	TWA 904	AIR	w/New York, s/c GL-BE	a1EU
5598	0150	N149US	Northwest 52	AIR	w/Gander, s/c CJ-AG	a1EU
5598	0330	D-ABUZ	Condor 183	AIR	w/Shanwick, s/c AE-JS	a1EU
5598	0035	D-AERB	LTU 401	AIR	w/Santa Maria,s/c HJ-DQ	a1EU
5598	0100	D-AHLA	Hapag Lloyd 602	AIR	w/Shanwick, s/c HL-AQ	a1EU
5598	0050	D-....?	DBY / `windsor` 945	AIR	w/Santa Maria,s/c JR-AC	a1EU
5598	0115	EC-GHM	AEA / Air Europa 1118	AIR	w/Santa Maria,s/c JR-AG	a1EU
5598	0100	EI-CNS	AEL / Air Europe 2909	AIR	w/New York, s/c QS-EL	a1EU
5598	0045	F-BPVL	Air France 011	AIR	w/Santa Maria,s/c EK-DJ	a1EU
5598	0150	F-GPVA	Air Liberte 804	AIR	w/Santa Maria,s/c BH-CG	a1EU
5598	0335	F-GTDH	AOM `French Liner` 321	AIR	w/Shanwick, s/c BJ-HL	a1EU
5598	0155	F-....?	AEY 967 / Aero Lyon	AIR	w/Shanwick	a1EU
5598	0155	G-....?	BAW `Speedbird` 9658	AIR	w/Gander, s/c GK-ES	a1EU

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5598	0055	G-OBYB	Britannia 427B	AIR w/New York, s/c JR-AD	aLEU
5598	0155	G-VOYG	Virgin 018	AIR w/Gander, s/c BJ-AH	aLEU
5598	0133	I-DEML	Alitalia 666	AIR w/Gander, s/c FK-DG	aLEU
5598	0110	OY-...?	Premiair `Viking` 160	AIR w/Santa Maria,s/c AB-CM	aLEU
5598	0315	PH-KCA	KLM 0749	AIR w/New York, s/c AF-ER	aLEU
5598	0300	ReachJHX5	USAF Flight	AIR w/New York, s/c FJ-BM	aLEU
5598	0035	Ascot3200	RAF Flight	AIR w/Santa Maria,s/c LM-BK	aLEU
5616	1756	DHL 020	DHL a/c	AIR w/Shanwick	aLEU
5616	1758	N800KC	a/c	AIR w/Shanwick	aLEU
5616	1932	NavyJS560	USN flight	AIR w/Shanwick	aLEU
8879	2118	HB-IPN	Swiss Air 104	AIR w/Gander, s/c BJ-EQ	aLEU
8879	2123	EFF 005	Westair Aviation	AIR w/Gander	aLEU
8891	1445	PH-BUW	KLM 0617	AIR w/Shanwick, s/c DK-BG	aLEU
8891	1435	N794UA	United 941	AIR w/Shanwick, s/c AS-DG	aLEU
8894	2316	9G-MKC	MKA 107 / MK Airlines	AIR w/Algiers,s/c JM-EK	aLEU
8894	0210	HB-IWL	Swiss Air 273	AIR w/Algiers,s/c AG-FQ	aLEU
8894	0045	BLV 222	Bellview Airlines	AIR w/Algiers	aLEU
8894	0105	D2-TEA	`Angola` Airlines 650	AIR w/Niamey, s/c BM-DL	aLEU
8903	0050	ZS-SAU	Springbok 241	AIR w/N`Djamena	aLEU
8903	0052	I-DUPE	Allitalia 837	AIR w/N`Djamena, s/c FK-DL	aLEU
8903	2210	EI-BNA	BCS 082/Eur,Air Trans,	AIR w/Luanda, s/c EF-JL	aLEU
8903	2235	HB-IWF	Swiss Air 286	AIR w/N`Djamena, s/c AF-PQ	aLEU
8903	2240		Zimbabwe 727	AIR w/N`Djamena	aLEU
8906	0130	EC-FHA	Spanair `Sunwing` 138	AIR w/New York, s/c EG-BR	aLEU
8906	2150	PH-KCF	KLM 0766	AIR w/Gander, s/c AF-MR	aLEU
8906	0220	ABM 006	November 006 ( who? )	AIR w/New York	aLEU
8906	0225		Lauda (Air) Italy 1955	AIR w/New York	aLEU
8906	0235		Luxair 3224	AIR w/New York	aLEU
8906	0025	Reach5009	USAF flight	AIR w/Santa Maria	aLEU
8906	2100	NavyJT240	USN flight	AIR w/Santa Maria	aLEU
8906	0122	NavyWB277	USN flight	AIR w/New York	aLEU
8921	1220	G-BNWR	BAW `Speedbird` 2199	AIR w/London, s/c EK-MQ	aLEU
8930	1430		Aeroflot 310	AIR w/Stockholm, wx LBBG	aLEU
8930	1915	SU-GBV	Egypt Air 792	AIR w/Stockholm, s/c PR-AM	aLEU
8930	1030	F-GEMQ	Air France 702	AIR w/Stockholm, s/c CP-HQ	aLEU
8930	1235	OE-L..?	Austrian 591	AIR w/Stockholm, s/c GP-AB	aLEU
8930	1155	N1501P	Delta 67	AIR w/Stockholm, s/c MS-FQ	aLEU
8930	1325	N785UA	United 931	AIR w/Stockholm, s/c AR-EM	aLEU
8930	1255	4R-ULB	Airlanka 548	AIR w/Stockholm, s/c BF-JL	aLEU
8930	1325	F-....?	Air France 010	AIR w/Stockholm, s/c GM-DJ	aLEU
8930	1350	9G-MKA	MK Airlines	AIR w/Stockholm, s/c DK-BG	aLEU
10805	1235		Air France 006	AIR w/Stockholm, B747	aLEU
11345	1318	D-ABAL	Air Berlin 7298	AIR w/Stockholm, s/c LQ-HR	aLEU
11345	1028	N779UA	United 915	AIR w/Stockholm, s/c AR-BC	aLEU

## D I G I T A L

111,3	1904	SOA211	Warsaw Meteo	POL R50/170: wx	aLEU
129,1	1907	DCF49	EFR Berlin, Mainflingen	D Ascii200/425: id	aLEU
139	1908	DCF49	EFR Berlin, Mainflingen	D Ascii200/425: id	aLEU
147,3	2213	DDH47	DWD / Hamburg Meteo	D R50: ry, cq	aLEU
2840,7	2020	DLGZ	BG21 Bredstedt	IW SITOR-A 100 w/CG Cuxhaven	abNL
4002	1755	YRR2	Bucharest Maeteo	ROU R50/425: AAXX	aLEU
4068,7	1759	NJIS	unid, tactical E`EU	R50/170:A2ML ER NJIS	aLEU
4168	2259		INy Augusta	I USB ABJ w/ICB in USB	abNL
4262,8	1135		UNID	? unksys 75/850 encryp. sig.	ewAU
4264	1130		UNID	? unksys 75/170 encryp.	ewAU
4271	0432	CFH	CF Halifax	CAN rtty 75, later FAX 120/576	dpCH
4337	1130		UNID	? baudot 50/300	ewAU
4459	2210		unid	R50/425:5 fgs, ;50;	aLEU
4570	1845	HZN46	Jeddah Meteo	ARS R100: wx	aLEU
4583	1846	DDK2	DWD / Hamburg Meteo	D R50/425: wx	aLEU
4640	1942	FDI8	AF Nice	F R50/425: ryry	aLEU
4877,3	2218	FDG	FAF Bordeaux	F RTTY 50 text + call	dpCH
5096,8	0144	CFH	CF Halifax	CAN R75/850: like CARB	aLEU
5122	2200		Unid	? RTTY ALE + high-speed data	abNL
5196,8	0140	CFH	CF Halifax	CAN R75/850: spurious?	aLEU
5236,3	1435	FDI8	AF Nice	F R50/425: ryry	aLEU



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5301	1950	RFF---	FF Ajaccio/Bastia	F	ARQE/192/400 usually idle	pcG
5363,1	1655	ZSEZJE	unid, Polish Military	?	R50/170: ryry, msg	aleU
5400	1559	YOG37	Bukarest Meteo	ROU	R50/425: AAXX	aleU
5400,5	1530		DCN UNID	?	PICC/? s/chan crypto	pcG
5430	1820	RFF---	FF Basta/Ajaccio	F	ARQE/192/400 idle	pcG
5478,1	1554	ZSEZJE	unid, Polish Military	?	R50/170:encrypt msg	aleU
5489,1	1420	EUROBSP	unid, Italian Military	?	R50/850: to EUROCOM	aleU
5830,9	1515	CIXT	unid, tactical E'EU	?	R50/170:VB9L ER CIXT	aleU
5831,1	1730		unid, Tunesian MOI	TUN	R50/170: ATU-80 msg	aleU
5859,1	1355	DDA86	unid, Regional Meteo ?	D	R50/170:Hier ist...	aleU
5887,3	1745	IMB32	Rome Meteo	I	R50/850: AAXX	aleU
5893	1400		unid	?	R50: 5 fgs, cfm-tfc	aleU
6315,5	0824	KFS	Palo Alto R,	USA	Sitor 100/170 pers, Msgs	ewAU
6360,6	2327		UNID	?	unksys 100/850 encryp.syst,	ewAU
6397,3	1019	KAWN	USAF kawm	USA	baudot 75/850 wx-msgs	ewAU
6406,9	1240	UAI3	Nakhodka R,	RUS	baudot 50/170 de nakhodka	ewAU
6462,3	1235	FUM	FNy Tahiti	OCE	baudot 75/425 de fum ryry	ewAU
6474	0818		UNID	?	unksys 75/170 encryp. sign.	ewAU
6487	2331		UNID	?	unksys 75/850 encryp. syst.	ewAU
6496,4	2333	CFH	CAN Forces Halifax	CAN	baudot 75/850 wx info cyqx	ewAU
6741,7	1920		FF UNID	?	SITOR/A ry + op chat	pcG
6901	0815		RAAF Londonderry	AUS	vft 75/85 encryp. vft group	ewAU
			Londonderry is near Sydney,		Thanks to Graham Bartlett,,,,,	ewAU
6977	1300	FDG	AF Bordeaux	F	ITA2/50/400 `le brick..`	pcG
7511,4	0540		UNID	?	unksys 300/325	ewAU
7512	0100	ZRO2	Pretoria Meteo	AFS	R75/425: wx	aleU
7614	1528	RFF----	FF Marseille	F	ARQE/192/170 usual Mon test	pcG
7625	0103	HZN47	Jeddah Meteo	ARS	R100: AAXX	aleU
7646	0105	DDH7	DWD / Hamburg Meteo	D	R50/425: ry, cq	aleU
7671,5	1520	FDG	AF Bordeaux	F	ITA2/50/400 `test de fdg`	pcG
7716	1530	RFF__	FF UNID	F	ARQE/192/170 cont idle	pcG
7822,2	2115	RFFA	FF Paris	F	ARQE3/200/400 to ??? idle	pcG
7990,5	1030		UNID	?	unksys 75/170 encryp, sig,	ewAU
8040	2232	GFA	Bracknell Meteo	G	Fax 120/576 wx map	ewAU
8050,2	2231	RFQP	FF Djibouti	DJI	arq-m2 200/200 idling	ewAU
8063,2	2207	RFFA	FF	F	arq-m2 200/200 idling	ewAU
8105	2158	RFFX	Min. of Defence	F	e3 184/270 idling	ewAU
8113,1	2153		UNID	?	unksys 75/850 encryp. syst.	ewAU
8140	2147	BMF	Taipei Meteo	TWN	fax 120/576wx map southasia	ewAU
8433	0753	8PO	Barbados R.	BRB	sitor 100/170 msgs to ship	ewAU
8490	0820		UNID	?	unksys 75/170 encryp. sig.	ewAU
8490	0635		UNID	?	unksys 75/170 encryp. sig.	ewAU
8514	1040	WLO	Mobile R.	USA	sitor-b 100/170 tfc QRM xsq	ewAU
9030,2	1319		UNID	?	unksys 75/850 encryp. syst.	ewAU
9041	2045	5YE	Nairobi Meteo	KEN	ITA2/100/850 cq/ryry mkr	pcG
9071,3	0637		UNID	?	75/850 encrypted signal	ewAU
9076,7	0630	RFFA	Min. of Defence	F	e3 192/425 idling no tfc	ewAU
9107,1	1259		UNID	?	vft 75/75 4 chnls all encr.	ewAU
9110	0408	NMF	USCG Boston	USA	FAX 120/576 meteo charts	dpCH
9130	2051	GYA	RNY London	G	rtty 75 test+call	dpCH
9130	1742	MGJ	Ny Faslane	G	rtty 75 text + call	dpCH
9150	1256	RCH73	Tashkent Meteo	UZB	fax 90/576 wx map	ewAU
9154	0408	D4B	Sal Aero	CPV	rtty 50 test + call	dpCH
9165	1257	HLL	Seoul Meteo	KOR	fax 120/576 wx map	ewAU
9200	1254		UNID	?	unksys 75/850 encryp. syst.	ewAU
9210	1248		UNID	?	unksys 37,5/50 encryp.syst.	ewAU
9371	1242		UNID	?	unksys 75/130 encryp. text	ewAU
9910	0818		UNID	?	unksys 100/850 encryp. sig.	ewAU
9962	1235		UNID	?	unksys 75/800 encryp. syst.	ewAU
10100,8	2128	DDK9	DWD / Hamburg Meteo	D	R50/425: ry, cq	aleU
10298,7	1220	HSW62	Bangkok Meteo	THA	baudot 50/170 wx info	ewAU
10310,7	0703		UNID	?	150/850 encrypted signal	ewAU
10340,5	0657		UNID	?	110/170 encryption	ewAU
10428	0718		UNID	?	50/850 encrypted signal	ewAU
10536	0425		CF Halifax	CAN	FAX 120/576 meteo charts	dpCH
10626	1520	RF---	FF UNID	?	ARQE/184.6/400 idle	pcG
10755,3	0727		UNID	?	75/850 encrypted signal	ewAU
10960,7	1830	RFFP	FF Paris	F	ARQ342/200to RFFVAY/Sarajev	pcG

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10991,7	2030	RFFVAY	FF Sarajevo	BIH ARQ342/200/400/2ch to RFFH	pcG
11080	1835		SANA Damascus	SYR ITA2/50/400 AA news	pcG
11150	1830		UNID	? FEC/A/144/400ry+5fig+cb+cryppcG	
11154	0952	DZFG	MFA Belgrade	YUG BAUDOT 75 encrypted tfc	abNL
11201,7	1022		UNID	? 100/170 unid sitor system	ewAU
11213,4	0645		UNID	? unksys 75/850 encryp. sig.	ewAU
11341,9	0938		MFA Copenhagen	DNK TWINPLEX100 Plain text msgsabNL	
11421,7	0825	FJY5	TAAF Alfred Faure	CRO e3 96/425 idling signal	ewAU
11424	1755	SPW	Warsaw R.	POL SITOR/B cq + tfc list	pcG
11436	0647		UNID	? unksys 75/170 encryp. sig.	ewAU
11437,9	0948		MFA Copenhagen	DNK TWINPLEX100 Encrypted msgsabNL	
11547	0825	MKK	RAF London	G rtty 50 text + call	dpCH
11631,7	0654	RFTJ	FF Dakar	SEN e3 192/280 idling signal	ewAU
12136	1625		UNID	? 81-81 system	pcG
12298	1630		UNID	? 75/850 `ryryryvmgtcnjhb..`	pcG
12823,9	0629	GYU	Ny Gibraltar	GIB baudot with 08a gyu	pcG+ewAU
12932,5	1845		UNID	? 100/850 cont.	pcG
13140,7	0701		UNID	? baudot 100/850 encryp.	ewAU
13437	1505	RPFN	Ny Lisbon	POR rtty 75 test + call	dpCH
13846,7	0612	RFQP	FF Djibouti	DJI e3 100/425 idling	ewAU
14626,7	0740	RFLI	FF Fort-de France	MRT e3-100/425 idling	ewAU
14732	0735	RFVI	FF Reunion	REU e 96/425 idling	ewAU
14912,5	1741	SOO291	PAP Warsaw	POL Sitor B 100 text + call	dpCH
14927,7	0647	RFLI	FF Fort-de-France	MRT e3 192/425 idle	ewAU
16839,5	1020	UFN	Novorossiysk R.	RUS rtty 75 text + call	dpCH
16951,6	1045	6WW	FNy Dakar	SEN rtty 75 test + call	dpCH
17521,6	0735	HSW61	Bangkok Meteo	THA baudot 50/850 wx info	ewAU

## T I M E S I G N A L

5000	2229	ULA4	Tashkent TS	UZB CW id ULA4 (14x),time sig,	mo76
14996	1639	RWM	TS Moscow	RUS cw-id cq, 1640 timesynch	ti47
15000	0018	WWV	TS Fort Collins,CO	USA TS,indices	lrG
20000	0022	WWV	TS Fort Collins,CO	USA TS,OM pulses	lrG

## Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AIR-Aircraft Hercules	72	f/d lt	17977	ZS-RSI		lrG
AIR-American Airlines a/c33		n/d lt/ms back	6637			hb31
AIR-Austrian Airl, 531	100	lt,infos	5517	OE-LAG		aLEU
AIR-China Airlines`Dynasty	348`	25 lt,sti,turi-i	8930	N505MC		aLEU
AIR-Evergreen Int'l Airlines		4201 75 lt,brochure	5616	N477EV		aLEU
AIR-Swiss Air 285	20	HAM-crd (HB9VC)	5517	HB-IWQ		aLEU
AIR-Swiss Air 287	14	HAM-crd,lt,infos	5517	HB-IWD		aLEU
AIR-US Air 12	10	lt,time-table	5598	N0655		aLEU
AIR-Virgin Atlantic Airways		VS016 15 lt,infos,sti	5616	G-VBJG		aLEU
ARG-Argentina R.	48	cd direct reply	12581	LSD836		lrG
B -VARIG Rio de Janeiro	27	lt,ppc/IRC back	8939			hb31
CAN-Baffin Aeradio	36	cd	8891		4000 w	mo76
CLN-Colombo Aero	40	f/d lt	11285			lrG
CLN-Colombo Aero	65	ppc/IRC,vc	11285		2000 w	pt53
D -GAF Hohn/Rendsburg	37	ppc,st,info/ms back	5687	DH060		hb31
D -GAF Wunstorf	9	ppc/ms	5680	DH032		hb31
EST-Kuressaare Rescue	17	lt,card,info/1USD	5680			hb31
EST-Tallinn Volmet	45	lt	4645		1000 w	aLEU
G -NDB Brize Norton	18	ppc direct	386	`BZ`	50 w	mo76
G -NDB Cranwell	12	lt,ppc,i direct	423	`CWL`	10 w	mo76
G -NDB East Midlands	16	f/d lt/SAE	393	`EMW`	10 w	lrG
G -NDB Compton Abbas	76	f/d lt/SAE f/up	349,5	`COM`		lrG
G -NDB Aberdeen	84	f/d lt/SAE f/up	336	`AQ`		lrG
GRL-Qaqortoq R.	11	lt,ppc/IRC f/up	2265	OXF	1000 w	hb31
GUM-Guam R.	11	card/- e-mail rpt	19688	KHF		hb31
HOL-Ny Den Helder	5	ppc/SASE	3764,4	PBB	500 w	gsLX
HOL-Ny Goeree	31	ppc,QSL/SASE	2474	PBC	10000 w	gsLX
HOL-RNLAS De Kooy	15	ppc,brochure/SASE	2754,4	PFC		gsLX
I -CG Reggio Calabria	19	ppc direct	6815	ICI05	150 w	mo76

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I	-Compamare Mazara del Vallo	18	ppc direct	6815			150 w	mo76
I	-Compamare Rimini	21	ppc direct	6815				mo76
I	-Compamare Taranto	20	ppc direct no det,gvn	6815				mo76
I	-Compamare Termoli	50	ppc direct	6815			150 w	mo76
I	-Compamare Trapani	17	ppc direct	6815			25 w	mo76
I	-MRSC Cagliari	12	ppc/SASE	6815	ICI13			gsLX
I	-MRSC Fiumicino	85	ppc/SASE	6815	ICI03		100 w	gsLX
I	-MRSC Trieste	101	QSL-ltr/SASE	6815	ICI10		250 w	gsLX
I	-Compamare Manfredonia	21	ppc/ms f/up	6815				hb31
I	-Rome R.	212	lt It rpt-EE reply	1888	IAR			lrG
INS	-Amboina R.	36	f/d lt via Jakarta	17184,8	PKE			lrG
INS	-PERTAMINA Jakarta	46	lt,ppc/IRC	12980	PKX2			hb31
ISR	-NDB Haifa/Cape Carmel	124	ppc direct	287,3	`HA`		250 w	mo76
ISR	-NDB Haifa/Cape Carmel	162	ppc	287,3	`HA`		250 w	mo76
IW	-Amerada Hess FPSO	32	ppc/SASE	2182	001 Marine		100 w	gsLX
IW	-FGS Werra (A 514)	17	ppc/SASE	6779	DRHM		1000 w	gsLX
IW	-Flotel Polyconcord	20	ppc	2182	C6KB9			gsLX
IW	-HRMS Zierikzee(M 862)	16	ppc/SASE	2754,4	PAEM		100 w	gsLX
IW	-INys Ardito (D 550)	30	ppc,lt,i/SASE	2182	IARD			gsLX
IW	-MV Arco Avon	19	ppc/SASE	2182	GGNV		400 w	gsLX
IW	-MV Bearn	95	ppc,i/SASE	2182	FNGH			gsLX
IW	-MV Dea Fighter	40	ppc,lt/SASE	2182	MQEL7			gsLX
IW	-MV Dea Skipper	8	ppc/SASE	2182	C6CB5		400 w	gsLX
IW	-MV Flaminia	28	ppc,photo/SASE	2182	IBOD		400 w	gsLX
IW	-MV Grampian City	31	ppc,SASE	2182	GVOU		240 w	gsLX
IW	-MV Grampian Osprey	51	ppc/SASE	2182	MWAF5			gsLX
IW	-MV Grampian Pioneer	100	ppc,i,photo/SASE	2182	GDNP			gsLX
IW	-MV Grampian Sabre	23	ppc/SASE	2182				gsLX
IW	-MV Highland Drummer	15	ppc,lt/SASE	2182	MWSL6		400 w	gsLX
IW	-MV Highland Pride	14	ppc/SASE	2182	MPYY3		400 w	gsLX
IW	-MV Hornbeck Skua	62	ppc/SASE	2182	MNFV9			gsLX
IW	-MV Sansovino	14	ppc,i/SASE	2182	ICYO		400 w	gsLX
IW	-MV Skandi Falcon	23	ppc,i/SASE	2182	LCLS		250 w	gsLX
IW	-MV St.Elizabeth	15	ppc,i/SASE	2182	GIAJ		250 w	gsLX
IW	-MV St.Kitts	24	ppc/SASE	2182	GMSE			gsLX
IW	-MV Stirling Altair	18	ppc/SASE	2182	8PLC		250 w	gsLX
IW	-MV Stirling Fyne	12	ppc,lt,i/SASE	2182	C6MX9			gsLX
IW	-MV Stril Odin	24	ppc,lt,i/SASE	2182	LCQX		400 w	gsLX
IW	-MV Tidewater Intrepid	26	ppc,i/SASE	2182	GYNR			gsLX
IW	-MV Viking Crusader	14	ppc/SASE	2182	MNUY2			gsLX
IW	-MV Viking Vanguard	96	ppc,lt,photo/SASE	2182	MPBH4			gsLX
IW	-MV Zeynep-K	21	QSL-ltr/SAE	8240	TCAA		600 w	gsLX
IW	-NDB Conoco Loggs PA	12	lt,ppc,i,sti`s,fo	420	`LGS`		40 w	mo76
IW	-Rig Sedco 712	16	ppc/SASE	2182	ELPF2			gsLX
KER	-Port-aux-Francais	139	ppc/USD,vc	19530,2	FJY2			pt53
LVA	-MRCC Riga	50	QSL-ltr/SAE	5680			600 w	gsLX
OCE	-Papeete Aero	23	ppc,ham-card /1USD	8867				hb31
POL	-Szczecin R.	5m	QSL + lt	8650	SPE42		5000 w	pcG
RUS	-St.Petersburg R.	58	ppc/SAE	12765	RJFY/UCW4		500 w	gsLX
RUS	-TS Moscow	156	ppc/lt,fo,vc	9996	RWM			ti47
THA	-Bangkok Volmet	14	f/d folder	8743				lrG
TRD	-Piarco Aero	95	ppc/USD,vc	8855			5000w	pt53
UKR	-Mariupol R.	28	f/d cd	12612	USU			lrG
USA	-ARINC New York	10	lt,card /ms	6640				hb31
USA	-Silvair Miami	14	info-lt,no QSL/1USD	6637				hb31

Membership and Money corner:

Fee received from lrG and pcG, TNX to both!

To Ary (abNL): Please use the same details for NDB`s as we have had it all the time (id or id+dash not only cw). Some of your logs will be in EUNL 10-98. Space problems.

To Thomas (ti47): Brief folgt. Zeitmangel....

Addresses/Infos/Veri-signers:

Those who are in need of addresses of Canadian military bases in Canada and abroad should contact: [http://admdis01nt.ndhq.dnd.ca/menu/menu/totroops\\_e.htm](http://admdis01nt.ndhq.dnd.ca/menu/menu/totroops_e.htm)

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Solved NDB by mo76:

DM 659 civ Domodedovo/RUS N55,2706 E37,5018 (EUNL 6-98)

NDB Aberdeen/AQ: NATS Ltd. Control Tower Building, Aberdeen Airport, Dyce, Aberdeen AB21 7DU (1rG)

NDB Mont-Joli/YY: Aeroport de Mont-Joli, 875 Rue Jacques Cartier, suite 102, Mont-Joli, QUE G5H 4A4, Canada (my farthest NDB so far, 5100 km).

NDB Argentia/UWP: Technical Services, Nav Canada, P.O.Box 29009, Operations Building, Saint John's Airport, Saint John's, NF A1A 5B5, Canada. This NDB is located at Bristol Field, an abandoned airstrip formerly used by US military personnel.

NDB Gander/QX: Nav Canada, Gander IFSS, P.O.Box 328, Gander, NF A1V 1W7 (rk50)

NDB Sydney/QY: Nav Canada, 280 Airport Road, Sydney, NS B1M 1B8, Canada (rk50)

NDB Saint Anthony/ay: Nav Canada, Flight Service Station, Saint Anthony, NF A0K 4S0, Canada. (rk50)

NDB Mönchengladbach/MGB: Flughafengesellschaft Mönchengladbach, Flughafenstrasse

95, 41066 Mönchengladbach, Germany. (rk50)

NDB Campbeltown/CBL: H.I.A.L., Airport Manager, Campbeltown Airport, Campbeltown, Argyll PA28 6NU, United Kingdom. (rk50)

NDB Cranwell/CWL: Hunting Contract Services, c/o Mr. W. Rawlings, P.O.Box 23, Sleaford, Lincolnshire NG34 8JA, U.K. (rk50)

NDB Cumbernauld/CBN: Cumbernauld Airport, Duncan McIntosh Road, Cumbernauld, Glasgow G68 0HH, U.K. (rk50)

NDB Kirkwall/KW: H.I.A.L., Kirkwall Aerodrome, Kirkwall, Orkney KW15 1TH (rk50)

NDB`s Burnham/BUR + Chiltern/CHT: via Swanwick Centre, Sopwith Way, Southampton,

Hants. SO31 7AY, U.K. Swanwick Centre now replaces West Drayton and Hounslow.

NDB Lyneham/LA: RAF Lyneham, Chippenham, Wiltshire SN15 4PZ, U.K. (rk50)

NDB Loggs Platform/LGS: Loggs Platform, c/o CONOCO (UK) Ltd., Theddlethorpe Gas Terminal, Mablethorpe, Lincolnshire, U.K. (rk50)

Central Address Dublin NDBs: S.E.M. Officer-in-Charge, Engineering Division, Irish Aviation Authority, New Control Tower Building, Huntstown, Cloghran, Co. Dublin, Ireland (rk50)

NDB Girona/GRN: Aeropuerto de Girona-Costa Brava, E-17185 Vilovi, D'Onyar, Girona, Spain (rk50)

NDB Bilbao/B: Aeropuerto de Bilbao, Navegacion Aerea - TWR, E-48150 Sondica (Vizcaya), Spain (rk50)

NDB La Palma/BV: Direccion Regional de Navegacion Aerea de Canarias, Jefe Mtto.,

Aeropuerto La Palma, Apartado 195, S/C Palma, Canarias, Spain (rk50)

NDB Prins Christian Sund/OZN: Tele Greenland A/S, c/o Bjoern Jokumsen, Kystradiolinien, P.O.Box 1002, DK-3900 Nuuk, Greenland (rk50)

NDB Kiel/KIL: Kieler Flughafengesellschaft, Leitender Fluglotse, Boelckestrasse 100, D-24159 Kiel, Germany. (rk50)

NDB Cranwell/CWL: RAF College Cranwell, Sleaford, Lincolnshire NG34 8HB (mo76)

NDB Haifa/Cape Carmel/HA: Bezeq Telecom, Transmission Dept., 4XO - Haifa Radio, 32 Y, L, Peretz Str., Haifa 31999 (mo76)

Papeete Aero: v/s=Jean-Pierre Lilin, FO50D (former FO40D)(hb31)

Qaqortoq R./OXF: Teleservicecenter Qaqortoq, Postboks 504, DK-3920 Qaqortoq (hb31)

Baffin Aeradio: Flight Service Station Manager, NAV CANADA, 22 Wing, Hornell Heights, Ontario P0H 1P0 (mo76)

China Airlines: Asia Flight Dispatch Center, Flight Operations Division, CKS Taipei Int'l Airport, Taipei, Taiwan Email: TPEOMCIBOX@EMAIL,CHINA-AILINES.COM

v/s Casey Liu, Kwan-Chin - Regional Manager (a1EU)

US Air: Executive Staff, Office of Consumer Affairs, P.O.Box 1501, Winston-Salem, NC 27102-1501, USA (v/s James M Frazier/mce, Director of Operational Planning)(a1EU)

Evergreen International Airlines: 3850 Three Mile Lane, McMinnville, OR 97128-9496 (a1EU)

Virgin Atlantic Airways: The Office, Crawley Business Quarter, Manor Royal, Crawley, West Sussex RH10 2NU (v/s Elaine Arber, Operations Controller)(a1EU)

Swiss Air: Strategische Planung & Betriebswirtschaft, Postfach, CH-8058 Zurrich Flughafen (v/s Thomas Weber (HB9DHT), Flight Operations / OPPP)(a1EU)

Tallinn Volmet: Estonian Air Navigation Services, Ennujaama 2, EE-0011 Tallinn, Estonia (v/s Mati Tarlap, Chief of NavCom Dept,)(a1EU)

EUNL1998

MRSC Fiumicino/ICI 03: Capitaneria di Porto, Via de Traiano 37, I-00054 Fiumicino (gsLX)  
 MRSC Trieste/ICI10: Capitaneria di Porto, Riva 3 Novembre, I-34131 Trieste(gsLX)  
 Ny Den Helder/PBB: Netherlands Navy, Radio Communications Station PBB, NL-1781 ZZ Den Helder (gsLX)  
 Ny Goeree/PBC: Netherlands Navy, Noraweg 20, NL-2210 AB Noordwijkerhout (gsLX)  
 St. Petersburg R./RJFY/UCW4: North-western Shipping Co., ul.Bolshaya Morskaya 37, 190000 St.Petersburg, Russia (gsLX)  
 Port-aux-Francais/FJY2: Le Gerant Postal; Port-aux-Francais; District de Kerguelen; Terres Australes & Antarctiques Francaises; VIA Reunion (pt53)

Stirling Altair/8PLC: Stirling Shipmanagement Ltd, 16 Woodside Crescent, Glasgow G3 7UT (gsLX)  
 Amerada Hess/AH001: Amerada Hess Ltd., Scott House, Hareness Road, Altens Industrial Estate, Aberdeen AB12 3LE (gsLX)  
 Dea Skipper/C6CB5+ Dea Fighter/MQEL7: Nomis Shipping Ltd, 106 Albert Quay, Aberdeen AB1 2YA (gsLX)  
 Polyconcord/C6KB9: Rasmussen Maritime Services AS, Postboks 37, Kirkegaten 1, N-4601 Kristiansand S (gsLX)  
 Stirling Fyne/C6MX9: Stirling Shipmanagement Ltd., 16 Woodside Crescent, Glasgow G3 7UT (gsLX)  
 Sedco 712/ELPF2: Sedco Forex, 50 Avenue Jean Jaures, BP 599, F-92542 Montrouge, France (gsLX)  
 MV Bearn/FNGH: SNEA, Tour ELF, Place de la Coupole, La-Défense, F-92400 Courbevoie (gsLX)  
 Grampian Pioneer/GDNP: North Star Shipping Ltd., 207 Albert Quay, Aberdeen AB9 2FS (gsLX)  
 St. Elisabeth/GIAJ+St. Kitts/GMSE: Vector Offshore Ltd., Vector House, Marine Base, South Denes Road, Great Yarmouth NR30 3QQ (gsLX)  
 Tidewater Intrepid/GYNR+Hornbeck Skua/ MNFV9: Tidewater Marine North Sea, Souter Head Road, Altens Industrial Estate, Aberdeen AB12 3LF (gsLX)  
 Flaminia/IBOD: Tirrenia Di Navigazione, Rione Sirignano 2, CP 142, I-80121 Napoli, Italia (gsLX)  
 MV Sanssovino/ICYO: Adriatica di Navigazione SpA., CP 705, Zattere 1411, I-30123 Venezia, Italia (gsLX)  
 Skandi Falcon/LCLS: Dof Management AS, Postboks D, N-5392 Storebo (gsLX)  
 Stril Odin/LCQX: Mokster Simon, Skogstostraen 37, Postboks 108,N-4001 Stavanger, Norway (gsLX)  
 Viking Vanguard/MPBH4: Viking Standby Ltd., Annat House, South Quay, Ferryden, Montrose, DD10 9UB, UK (gsLX)  
 Highland Pride/MPYY3+Highland Drummer/MWSL6: Gulf Offshore NS Ltd., 184-192 Market Street, Aberdeen AB11 5PQ, Scotland (gsLX)

This very nice work was from the following (13) contributors: a1EU, mo76, dp47, abNL, ewAU (AUSTRALIA), rk50, dpCH , gsLX, ti47/ti24, hb31, lrG, pcG (some of your logs will be in EUNL 10-98) and pt53 (logs also in 10-98 space probs!!) gd dx + 73`s; until next month

Andreas

EUROPEAN UTILITY NEWSLETTER 10-98

\*\*\*\*\*  
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 \* \* \*

## EUNL1998

\* Deadline: 20th of the month!!! \*

Hi there,  
and sorry for the confusion on the Homepage last month. Of course it was EUNL 9-98 and not 10-98 as I wrote at the website. It is known that if you get older you will get more confused... Here an info for the NDB-Freaks. I got an update of the DF-Circle List from Alan. This can be downloaded along with his DF-Circle-List from the Homepage.

## N D B

268	1900	TM	Tromso/Langnes	NOR	id	jls
275	1901	BA	Banak	NOR	id	jls
283	1902	KBV	Kobbevag/Tromso/Langnes	NOR	id	jls
284	1903	AN	Unid	?	id+dash	jls
288	1905	OM	Unid	?	id+dash	jls
290	1906	TP	Oulu	FNL	id	jls
291	1907	TG	Torsvag	NOR	id+dash	jls
296	1909	KN	Skrova Lt.	NOR	id+dash	jls
299,5	1910	SK	Skomvaer Lt.	NOR	id+dash	jls
306,5	1912	VD	Vardoe Lt.?	NOR?	id+dash	jls
310	1914	A	Gellivare	S	id	jls
314	1915	HK	Hekkingen	NOR	id+dash	jls
318	1916	A	Sodankyla	FNL	id	jls
322	1917	HMK	Hansmark/Tromso/Langnes	NOR	id	jls
324	1918	AS	Kemi	FNL	id	jls
325	1919	OG	Gellivare	S	id	jls
328	1920	KIT	Kittila	FNL	id	jls
330	1921	TV	Alta/Talvik	NOR	id	jls
332	1922	VA	Ylivieska	FNL	id	jls
333	1923	G	Kemi	FNL	id	jls
336	1924	JZ	Vidsef	S	id	jls
338	1925	SA	Sorreisa/Bardufoss	NOR	id	jls
339	1926	V	Kruunupyy	FNL	id	jls
340	1927	KS	Kuusamo	FNL	id	jls
340	1928	O	Oulu	FNL	id	jls
342	1929	VD	Vadso	NOR	id	jls
343,5	1930	ANY	Andoya(RNoAF)	NOR	id	jls
344	1931	L	Kittila	FNL	id	jls
345	1932	BNK	Banak (RNoAF)	NOR	id	jls
346	1933	TG	Gellivare	S	id	jls
348	1934	SAD	Sandsund(Leknes)	NOR	id	jls
350	1935	MLV	Malsev	NOR	id	jls
350	1936	LAA	Oulu	FNL	id	jls
354	1937	G	Ivalo	FNL	id	jls
355	1938	KUU	Kuusamo	FNL	id	jls
355	1939	KT	Katvik/Narvik	NOR	id	jls
357	1940	SEP	Seppi	FNL	id	jls
358	1941	ATA	Alta	NOR	id	jls
360	1941	OP	Kiruna	S	id	jls
362	1942	KV	Kvalsund	NOR	id	jls
364	1943	B	Kittila	FNL	id	jls
365	1943	ODD	Odden	NOR	id	jls
368	1944	SK	Sodankyla	FNL	id	jls
368	1945	JKK	Jokkmokk	S	id	jls
371	1945	DU	Bardufoss (RNoAF)	NOR	id	jls
373	1946	KEM	Kemi	FNL	id	jls
375	1947	HET	Enontekio	FNL	id	jls
377	1948	PA	Rovaniemi	FNL	id	jls
378	1949	HTK	Hestvik/Sorkjosen)	NOR	id	jls
380	1950	TOL	Ivalo	FNL	id	jls
386	1951	HK	Unid	?	id	jls
388	1952	KRU	Kruunupyy	FNL	id	jls
396	1952	FS	Fjellstad	NOR	id	jls
404	1953	Y	Kemi	FNL	id	jls
408	1953	H	Enontekio	FNL	id	jls
410	1954	BO	Boden	S	id	jls
414	1955	SJA	Senja/Bardufoss	NOR	id	jls

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416	1956	TOR	Rovaniemi	FNL	id	jls
421	1956	TRU	Rosvik	S	id	jls
432	1957	AKU	Ivalo	FNL	id	jls
435	1958	SM	Semyenovka	UKR	id	jls
906	1958	PE	Unid	?	id	jls
940	1959	DU	Chudovo	RUS	id	jls
1046	2000	UR	Vologda	RUS	id+dash	jls

NDB loggings by jls made in Karesuando in the extreme north of Sweden.....jls

## F I X E D

2738	2046		R. Moscow feeder	RUS	usb re Mayak px //2829	zeTC
3171	1906		unid, tactical	?	cw msgs 5lg, handkeyed	ti47
3219	0256	FDG	AF Bordeaux	F	cw-vvv	zeTC
3768,2	2230	FDC	AF Metz	F	cw-vvv	ti47
3838	1945		unid timesignal	?	cw timestring starting min+00	
format: =002345??8????, seems to be RUS time near sverdlovsk any knowledge?						
3952	0225	FDG	AF Bordeaux	F	cw-vvv	zeTC
4024	2209	M51	Numbers station	F	cw NR 77 J 28 00:09:19 1998	abNL
4030	1850	M51	Numbers station	?	cw 5LG`s	abNL
4041	1940		Unid Transm. only 3 min	?	cw msgs: TETINSITEEAEMNL	abNL
4042,4	2210		Dashless morse station	?	cw transm. groups of dots	abNL
4467	2004	IPL9	unid, tactical	?	cw clg RPAK, vy fast morse	ti47
4503	2008		unid, timesignal	?	cw timestring cont. transm.,	
same timezone as on 3838.0 kHz, format: hhmm UTC + 4 hrs, any knowledge?dmRU+ti47						
4547	2138	4XZ	Ny Haifa	ISR	cw-vvv, qtc at 2139	dmRU
4665	2016		Spy-network X26 MOSSAD	ISR	AM cont. KPA2	ti47
4905	2000	M1A	Numbers station	?	cw id 025 Unexpected end	abNL
4922,5	2157	FDG	AF Bordeaux	F	cw-vvv	pt53
5002	1947		Ticking station	?	Transmits ticks/clicks-eirda	abNL
5027,5	1927	FDI 8	FAF Nice	F	cw-vvv	pt53
5028	1818	FDI8	AF Nice	F	cw-vvv	pt53+ti47
5077	2051		unid	?	cw-msgs 5ng vy fast morse	ti47
5134	0908		R. Moscow feeder	RUS	re Mayak px (USB) //4982	zeTC
5153	2020	RMP	RUSNy Kaliningrad	KAL	cw channelmarker P	ti47
5178	2149		Backward Music station	?	TONES not// 6695 and 6753	kabNL
5266,5	2201	HEP 5	INTERPOL Zürich	SUI	cw-vvv	pt53
5278	1800	M1A	Numbers station	?	cw id 02. Unexpected end	abNL
5321	2037	FDY	AF Orleans	F	cw-vvv	ti47
5342	1826	FDY	AF Orleans	F	cw-vvv	ti47
5446	2206	FDG	AF Bordeaux	F	cw-vvv	pt53
5472	1703	M45	Numbers station	?	cw 074 (R4)296 296 296 46 6	abNL
5748	2107	FDG	AF Bordeaux	F	cw-vvv	zeTC
5788	1830		unid	?	cw msg 5lg in cyrilic morseti	ti47
5807	2104	A2A	unid	?	cw-vvv QRA DE A2A	ti47
6283	1923	M1B	Numbers station	?	cw 382 (R4) 214 214 44 44	abNL
6290	1920	M17	Numbers station	?	cw 58282 (R4) dots 25 5=5F	abNL
6675	2255		UNID	?	usb-unformal chat in Greek	dmRU
6695	2203		Backward Music station	?	TONES not// 5178 and 6753	kabNL
6753	2204		Backward Music station	?	TONES not// 5178 and 6695	kabNL
6817	1626	FDG	AF Bordeaux	F	cw-vvv	ti47
6844,5	1530	FDC	AF Metz	F	cw-vvv	ti47
6865	2058	FDG	AF Bordeaux	F	cw-vvv	ti47
6871	1009	HEP7	INTERPOL Zurich	SUI	cw-vvv	ti47
6880,5	0050		UNID	?	cw-5t99?t449????,every 2min	pt53
6900	2009		English Lady	?	usb-5fg's, 34110 repeated	dmRU
6925	2024		unid, KKN50?	?	cw msgs 5lg, MFA washingt.?	ti47
6959	2200		Lincolnshire Poacher	CYP	USB Id 94454 + 84176	abNL
7115,5	0615		UNID	?	cw-qta qlx (constantly)	dmRU
7256	1630	M3	Numbers station	?	cw 287/00 == 000	abNL
7433	0818	FDG	AF Bordeaux	F	cw-vvv	ti47
7472,5	0831	FDC	AF Metz	F	cw-vvv	ti47
7529	0500		Russian Man (S7)	RUS	AM 549 549 549 1 (R5) 248 2	abNL
7601	1221	FDI22	AF Narbonne	F	cw-vvv	ti47
7668	2149	8BY	unid, MoI Paris?	?	cw-vvv 8BY 532 401	ti47
7834,5	0748	FDC	AF Metz	F	cw-vvv	ti47
7840	2153		Spy-network EL01	?	USB-YL in EE, 5ng 2x,	ti47
7863,5	2327	SPW	Warszawa R.	POL	cw-de, qsx 8412.0	dmRU

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7917	0824	FDE14	AF Contrexville	F	cw-vvv	ti47
7960	2324	FDG	AF Bordeaux	F	cw-eotx and vvv	dmRU
7960	2201	FDG	AF Bordeaux	F	cw-vvv	ti47
8094,5	0752	FDC	AF Metz	F	cw-vvv	ti47
8125	2204		Spy-network E34 CIA	USA	USB msg fo 935, count 186	ti47
8167	0500		Russian Man (S7)	RUS	AM 131 131 131 1 248 72 24	abNL
8173	2042		Spy-network B24 BND	D	USB msg, 5ng, R3E-emission	ti47
8188	1230		Spy-network o10	?	USB msg 5ng,	ti47
9226	0600	XPH	Polytone station	?	TONES	abNL
9251	2200		Lincolnshire Poacher	CYP	USB Id 41014	ti47+abNL
9367	0520		Russian Man (S7)	RUS	AM Repeat of 0500 transm.	abNL
9429	0520		Russian Man (S7)	RUS	AM 549 549 549 1 (R5) 248	2abNL
9441	0600	XPH	Polytone station	?	TONES	abNL
9916	2040	XPH	Polytone station	?	TONES	abNL
10426	0620	XPH	Polytone station	?	TONES	abNL
10929	0540		Russian Man (S7)	RUS	AM 549 549 549 1 (R5) 248	2abNL
11041	0620	XPH	Polytone station	?	TONES	abNL
11167	0540		Russian Man (S7)	RUS	AM 131 131 131 1 + 5FG 00	abNL
11416	2020	XPH	Polytone station	?	TONES	abNL
12126	0640	XPH	Polytone station	?	TONES	abNL
12141	0640	XPH	Polytone station	?	TONES	abNL
12689	0621		AFN feeder	USA	USB News	abNL
13416	2000	XPH	Polytone station	?	TONES	abNL
13927	2120	AFA1EB	MARS UNID	USA	wkg AFF2CP	ai47
13927	2120	AFF2CP	MARS Lexington,KY	USA	wkg AFA1EB	ai47
13927	2126	AFA1EN	MARS Shelbyville,IN	USA	clg a/c 0041 no joy	ai47
13927	2131	AFA2XW	MARS Smyrna,GA	USA	wkg Shadow 23 phonepatch	ai47
14383,5	2108	NNN0CCF	USNS Comfort	IW	wkg NNN0XGB	ai47
14383,5	2108	NNN0XGB	MARS Brunswick,ME	USA	wkg NNN0CCF	ai47
14470	2210	NNN0NCG	MARS Alexandria	USA	wkg NNN0CYT	ai47
14470	1931	NNN0CYJ	USS Stark	IW	wkg NNN0KRQ	ai47
16332	1652		Ny Arkhangelsk	RUS	cw channelmarker S	ti47
16332	1653		Ny Moscow	RUS	cw channelmarker C	ti47

M A R I T I M E

515,5	2209	SPE	Szczecin R.	POL	cw-cq de spe tfc list	zeTC
1888	1941	IAR	Rome R.	I	USB,I,wx	pt53
2182	2004		Cabo de Gata R.	E	USB,E/S, QSY 1767	pt53
2182	1941	IAR	Rome R.	I	USB,E/I, QSY 1888	pt53
2182	2034	EAO	Palma R.	E	USB,E/S QSY 1755	pt53
4271	1941	OFJ	Helsinki R.	FIN	cw-ofj	dmRU
4273	1936	SAA	Karlskrona R.	S	cw-cq, nil tfc	dmRU
4275	1940	TBA	Ny Izmir	TUR	cw-vvv	dmRU
4305,5	1944	JNA	JMSA Tokyo	J	cw-cq	dmRU
4314	2130	LZW	Varna R.	BUL	cw `de lzw`	pcG
4317	2128	ZSC33	Capetown R.	AFS	cw-cq	pcG
6280	0851	SUP	Port Said R.	EGY	cw id`s only SUP SUP SUP	zeTC
6388	1946	EBA	Ny Madrid	E	cw-cq, navarea tres	dmRU
6880	0040		UNID I Ny	I	USB,E/I controls	pt53
8450	1900	SAA	Karlskrona R.	S	cw-cq mkr	pcG
8530	2003	IAR	Roma R.	I	cw-cq, tfc list	dmRU
8539	2010	VRX35	Hong Kong R.	CHN	cw-cq	dmRU
8590	1605	VTK	Ny Tuticorin	IND	cw-vvv	zeTC
8601,3	1940	ZLO	Ny Irirangi	NZL	cw-de	dmRU
8624	1945	XSQ	Guangzhou R.	CHN	cw-cq	dmRU
8632	1948	XSW	Kaohsiung R.	TWN	cw-cq	dmRU
8635	0617	UTQ7	Kiev R.	UKR	cw-cq,qsx 8341/12436/16639	dmRU
8636	1950	HLW	Seoul R.	KOR	cw-cq	dmRU
8686	1607	HSA2	Bangkok R.	THA	cw-cw de hsa2 qsx	zeTC
8691	1625	XST	Qingdao R.	CHN	cw-de xst qsx	zeTC
8706	2115	JOS	Nagasaki R.	J	cw-cq mkr	pcG
8725	1932	HLS	Seoul R.	KOR	usb, melody maker	zeTC
8725	1918	ZSC	Cape Town R.	AFS	cw-de zsc	zeTC
8725	1938	EHY	Madrid R.	E	cw-de ehy	zeTC
8725	1707	YLQ	Riga R.	LVA	usb, latvian YL-id	zeTC
8731	1716	EQJ	Chah Bahar R.	IRN	usb, Farsi, OM clg ship	zeTC
8791	1924	UTT	Odessa R.	UKR	usb,UKR YL id	zeTC



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10046	2054	4XZ	Ny Haifa	ISR	cw-vvv	pt53	
12609	,5	2130	WLO	USA	cw-wlo + SITOR	pt53	
12629	1455	KHF	Guam R.	GUM	cw-id + sitor	zeTC	
12647	2134	LPD	Gr1 Pacheco R.	ARG	SITOR tlx/cw mkr	pcG	
12649	,5	2127	XSG	CHN	SITOR/A tlx/cw mkr	pcG	
12662	1034	7TF8	Boufarik R.	ALG	cw-7tf6/7/8 qsx	pt53	
12673	,5	2130	CLA33	CUB	cw long cw mkr	pcG	
12709	1910	A9M	Bahrain R.	BHR	cw-cq	pcG	
12712	1853	HLW3	Seoul R.	KOR	cw-cq qsx	pt53	
12750	2126	CWA	Cerrito R.	URG	cw-cq	dmRU	
12780	2110	D3E61	Luanda R.	AGL	cw-cq	pcG	
12801	0758	TAH	Istanbul R.	TUR	cw-de tah...	pcG	
12808	,5	1540	VTG7	IND	cw-vvv	zeTC+pcG	
12847	2130	WCC	Chatham R.	USA	cw-cq	pcG	
12849	1758	ZSJ5	Ny Capetown	AFS	cw-cq qsx	pt53	
12856	1855	XSG	Shanghai R.	CHN	cw `cp de xsg`	pcG	
12870	1900	LZS	Bourgas R.	BUL	cw-cq, tfc list	dmRU	
12887	,5	2015	EAD	E	cw-de	dmRU	
12916	,5	0750	HLF	Seoul R.	KOR	CW cq mkr	pcG
12923	,5	1519	HLW2	Seoul R.	KOR	cw-cq	pcG
12935	2247	HLG	Seoul R.	KOR	cw-cq	pcG+dmRU	
12939	2012	SPE	Szczecin R.	POL	cw-de	dmRU	
12942	2125	RKLM	Arkhangelsk R.	RUS	cw `4ly de rkln` mkr	pcG	
12952	,5	1837	NMN	USA	SITOR/A tlx/cw mkr	pcG	
12952	,5	2155	VIP	AUS	cw-vvv	pcG	
12954	2032	XSG	Shanghai R.	CHN	cw wkg tfc	pcG	
12965	1532	USO5	Izmail R.	UKR	cw-cq call + wx	pcG	
12966	,5	1540	A7D	QAT	cw `de a7d` mkr	pcG	
12968	,5	1543	XSV	CHN	cw-cq	pcG	
12969	1853	XSV	Tianjin R.	CHN	cw-cq	dmRU	
12970	1545	SUH	Alexandria R.	EGY	cw-cq	pcG	
12988	,5	2243	LPD88	ARG	cw-vvv	dmRU	
13012	1547	AQP6	Ny Karach	PAK	cw-vvv	pcG	
13015	,5	1845	IAR	I	cw-vvv	dmRU	
13022	1910	SPE63	Szczecin R.	POL	SITOR-B, msgs	pt53	
13062	1916	CLA32	Havana R.	CUB	cw-cq qsx	pt53	
13107	1459	XSQ	Guangzhou R.	CHN	usb, CH YL vm)	zeTC	
13113	1945	HLB	Seoul R.	KOR	usb, melody maker	zeTC	
13113	2044	LPW	Bahia Blanca R.	ARG	usb-s r/t tfc, OM-id,clg	zeTC	
13143	1957	UTW	Mariupol R.	UKR	usb, UKR YL-id	zeTC	
13149	1440	UHS	Murmansk R.	RUS	usb, R YL-id,r/t tfc	zeTC	
13149	1443	EHY	Madrid R.	E	cw-id, de EHY	zeTC	
13149	1442	XSQ	Guangzhou R.	CHN	usb, CH YL vm(voice mirror)	zeTC	
13180	1512	DZD	Manila R.	PHL	usb,Philippino r/t tfc,id	zeTC	
16807	1627	9VG82	Singapore R.	SNG	cw-9VG + SITOR	pt53	
16808	,5	1628	KLB	USA	cw-klb + SITOR	pt53	
16811	2144	CBV	Playa Ancha R.	CHL	cw-id + sitor	zeTC	
16811	,5	1631	A9M	BHR	cw-a9m tlx + SITOR	pt53	
16812	,5	1606	NRV	GUM	cw-nrv + SITOR	pt53	
16813	1605	UAT	Moskau R.	RUS	cw-de uat +SITOR	zeTC+pt53	
16814	,5	1628	HEC17	SUI	cw-hec + SITOR	pt53	
16815	1628	9VG83	Singapore R.	SNG	cw-9VG + SITOR	pt53	
16815	,5	1620	OXZ	DNK	cw-oxz + SITOR	pt53	
16816	,5	1621	NMC	USA	cw-nmc + SITOR	pt53	
16820	1617	IAR	Rome R.	I	cw-iar + SITOR	pt53	
16821	1616	VRX83	Hongkong R.	CHN	cw-vrx + SITOR	zeTC+pt53	
16821	,5	1616	OXZ	DNK	cw-oxz + SITOR	pt53	
16826	1602	ESA	Tallinn R.	EST	cw-de esa + SITOR	pt53	
16826	,5	1612	PCH65	HOL	cw-pch + SITOR	pt53	
16828	1614	WLO	Mobile R.	USA	cw-wlo + SITOR	pt53	
16829	1611	USU	Mariupul R.	UKR	cw-usu + SITOR	pt53	
16830	,5	1610	SVT	GRC	cw-svt + SITOR	pt53	
16835	,5	1559	9AR	HRV	cw-9ar + SITOR	pt53	
16836	2150	UFL	Vladivostok R.	RUS	cw-id + sitor	zeTC	
16838	,5	1607	9AR	HRV	cw-9ar + SITOR	pt53	
16839	1608	PCH66	Scheveningen R.	HOL	cw-pch + SITOR	pt53	
16839	,5	1601	UFN	RUS	cw-ufn + SITOR	pt53	
16842	,5	0703	KEJ	HWA	cw-id + sitor	zeTC	

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16851,5	1606	SAB	Goeteborg R.	S	cw-sab + SITOR	pt53
16868	1604	9VG48	Singapore R.	SNG	cw-9VG + SITOR	pt53
16880	1556	XSQ	Guangzhou R.	CHN	cw-cq + SITOR	pt53
16886	1558	TAH	Istanbul R.	TUR	cw-tah + SITOR	pt53
16898	1557	UAT	Moscow R.	RUS	cw-de uat + SITOR	pt53
16923,8	1555	OFJ7	Helsinki R.	FNL	cw-ofj qsx	pt53
16932	1551	7TF10	Boufarik R.	ALG	cw-cq	pcG
16942,5	1523	9AR	Rijeka R.	HRV	cw-vvv de 9ar 3/7/9	pt53
16975	1520	SPE	Szczecin R.	POL	cw-de spe	pt53
16985,5	1538	WLO	Mobile R.	USA	cw-id, sitor	zeTC
16986	1645	CTP	Ny Oeiras	POR	cw-vvv, qsx	pt53
17020	1516	UDK2	Murmansk R.	RUS	cw-de udk 2	pt53
17021,6	1312	TAH	Istanbul R.	TUR	cw-de	pt53+pcG
17037	1320	YQI6	Constanta R.	ROU	cw wkg ships	pcG
17064,8	1459	EDZ6	Madrid R.	E	cw-de ead 3/edz 6 qsx	pt53
17066,5	1457	A9M	Bahrein R.	BHR	cw-a9m + SITOR	pt53
17074	1450	LGX	Rogaland R.	NOR	cw-cq qsx	pt53
17103,2	2016	XSG	Shanghai R.	CHN	cw-cq	pt53+dmRU
17117,6	1637	WNU45	Slidell R.	USA	cw-cq qsx	pt53
17141	1503	UFN	Novorossiisk R.	RUS	cw-de ufn 16	pt53
17145	1502	LZW72	Varna R.	BUL	cw-de lzw tfc-list	pt53
17147	1446	URL	Sevastopol R.	UKR	cw-de url mrk	dmRU+pt53
17172,5	1432	9MG11	Penang R.	MLA	cw-cq	zeTC+pt53
17175,2	1623	A9M	Bahrain R.	BHR	cw-cq qsx	dmRU+pt53
17180	1855	HWN	Ny Paris	F	cw ry/sg mkr	pcG
17184,8	1429	KFS	Palo Alto R.	USA	cw-cq	pt53
17204	2008	LFI	Rogaland R.	NOR	cw-id + sitor	dmRU
17206,1	1838	IAR	Roma R.	I	cw-vvv	dmRU
17231,5	2130	CWA	Cerrito R.	URG	cw-cq	pcG
17239,7	1427	PKX	Jakarta R.	INS	cw-cq	pt53
17329	1420	EHY	Madrid R.	E	USB,Sp phone-patch	pt53
19688	1620	KHF	Guam R.	GUM	cw-id + sitor	zeTC
19699	1322	UFN	Novorossiysk R.	RUS	cw-id + sitor	zeTC
19708	2138	SAB	Goeteburg R.	S	cw-id + sitor	zeTC
19755	1410	EHY	Madrid R.	E	USB,Sp tfc-list	pt53
22382	0648	NRV	USCG Guam	GUM	cw-id + sitor	zeTC
22385	1621	OXZ	Lyngby R.	DNK	cw-oxz + SITOR	pt53
22389,5	0651	NMO	USCG Honolulu	HWA	cw-id + sitor	zeTC
22592,5	1300	A9M	Bahrain R.	BHR	cw-cq mkr	pcG

## A E R O (Ground - stations)

4645	2154		Tallinn Volmet	EST	USB, E, Volmet	pt53
4712	1730		Lvov Aero	UKR	w/unid	a1EU
4712	1745		Vinitza Aero	UKR	w/Mineralny Vody Radio	a1EU
4712	0056		Cheljabinsk Aero	RUS	w/unid	a1EU
4712	0059		Koltsovo Aero	RUS	clg mni `Radio`s	a1EU
5224	1220		Stockholm Radio	S	w/Finnair 842	a1EU
5450	2023	MVU	RAF Upavon Volmet	G	USB wx for Northope	ti24
5493	2201		Luanda Aero	AGL	USB,E,wkg UNID a/c	pt53
5493	0300	TTL	N`Djamena Air	TCD	w/unid a/c	a1EU
5493	0302	9PL	Kinshasa Air	DRC	w/Speedbird....	a1EU
5517	0114		Addis Abeba Aero	ETH	USB,E,wkg Nairobi Aero	pt53
5517	0114		Nairobi Aero	KEN	USB,E,wkg Addis Abeba Aero	pt53
5517	0205	60M	Mogadishu Information	SOM	w/AFR___ F-BPVY, s/c EJ-BM	a1EU
5532	0006		Springbok Johannesburg	AFS	USB,E,wkg Springbok 205	pt53
5532	1145	OKL	CSA Prague LDOC	CZE	w/OK-WAA	pt53+a1EU
5536	2120		UNID	RUS?	USB,Ru,air-tfc	pt53
5550	0305	KEA5	New York Air	USA	w/unid a/c	a1EU
5610	1130		Portishead Radio	G	w/unid, s/c LM-GK	a1EU
5637	1842		unid Romanian Aero	ROU	ment RMV321	a1EU
5661	1710		Malta Control	MLT	w/unid	a1EU
5680	0703		Kinloss Rescue	G	USB w/Alpha 91	pt53+abNL
5680	1305		Tallinn Rescue	EST	w/Goltand Rescue	a1EU
5680	1305		Gotland Rescue	S	c/Kuresaare Rescue	a1EU
5685	1106	MKH5	RAF Cranwell	G	w/CWL86 `CHARLY 86`	a1EU
5687	1431	NI81	GAF Piacenza	I	w/91 (=DHM91), id:81	a1EU
5687	1230	DHO23	GAF Landsberg	D	w/91	a1EU

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5687	1345	DHO32	GAF Wustorf	D w/91	a1EU
5687	1400	DHO60	GAF Hohn	D w/91	a1EU
5705	0719	PBV	AF Valkenburg	HOL USB COASTGUARD 03	ti47
6577	2351		New York Aero	USA USB,E,wkg Speedbird 4508	pt53
6617	1843		Moskwa Meteo	RUS R Volmet, YL	a1EU
6617	1851		Kiev Meteo	UKR R Volmet, YL	a1EU
6712	1050	VERTE	AF Villacoublay	F w/ROME0 KILO	a1EU
6712	1743		USAF GHFS	? USB: OM with EAM	a1EU
6730	2251		Tashkent Meteo	UZB R Volmet	a1EU
6730	1258	OWD	RDAF Vaerloese	DNK USB: wkg AF 249	a1EU
6733	1146	ICA	Ny Ancona	I USB unid INy-Flight	ti47
6758	0600	MKL	RAF Pitravie	G cw Cavok etc	abNL
6826	1908		Stockholm Radio LDOC	S w/Royal Jordanian 194	a1EU
6836	0310		unid, Czech or Polish	? a kind of Volmet ! help !!	a1EU
6875	1910		Stockholm Radio LDOC	S w/Royal Jordanian 194	a1EU
8837	2346		LDOC El AL	ISR USB,hebr.,	pt53
8855	2056		Recife Aero	B USB,E,wkg AlItalia	pt53
8855	2246		Piarco Aero	TRD USB,E,wkg Caledonian 78	pt53
8861	2342		Canarias Aero	CNR USB,E,wkg LH 8265	pt53
8861	2011		Dakar Aero	SEN USB,E,wkg Lufthansa 8265	pt53
8861	2025		Irkutsk Volmet	RUS USB,Ru,Volmet	a1EU+pt53
8861	2034		Sal Aero	CPV USB,E,wkg Air Afrique 9963	pt53
8879	2340		Gander Aero	CAN USB,E,wkg Aeroflot	pt53
8879	0120		Bombay Aero	IND USB,E,wkg UNID a/c 2650	pt53
8891	1742		Shanwick Aero	G USB,E,wkg Speedbird 178	pt53
8891	0003		Iceland Aero	ICE USB,E,wkg Lufthansa 8931	pt53
8894	0110		Niamey Aero	NGR USB,E,wkg Speedbird 56a1EU+	pt53
8896,5	2353		Lima Air, LDOC/RDARA ?	PRU wkg Telta??	a1EU
8903	2145		N`Djamena Aero	TCD USB,E,wkg Swissair 287	pt53
8903	2254		Kinshasa Aero	ZAI USB,E,wkg Speedbird 54	pt53
8906	2337		Gander Aero	CAN USB,E,wkg Speedbird 9653	pt53
8909	0100		unid Aero	? SelCal-Check	a1EU
8918	0020		Tegucigalpa `Cenamer`	HND w/N626TC	a1EU
8921	2154		LTU Duesseldorf LDOC	D w/D-AMUS `US`	a1EU
8921	1820		BA `Speedbird` London	G w/unid	a1EU
8927	0023		SAUDIA Jeddah LDOC	ARS w/SAUDIA 103	a1EU
8930	1855	SDJ	Stockholm Radio	S USB,E,wx for a/c	pt53
8930	2310		PAKISTAN Karachi LDOC	PAK clg Pakistan 799	a1EU
8933	2208		New York ARINC LDOC	AIR w/Cubana 421	a1EU
8939	1450		Kiev Volmet	UKR R Volmet, YL	a1EU
8939	1458		Rostov Volmet	RUS R Volmet, YL	a1EU
8939	1438		Petersburg Volmet	RUS R Volmet, YL	a1EU
8939	2235		unid Brazil Aero	B Brazil/Portuguese Aero tfc	a1EU
8960	2135		Portishead Radio LDOC	G w/unid a/c	a1EU
8971	0000	BLUESTAR	US NAS Rossevelt Roads	PTR w/HUNTER 01	a1EU
8974	1545		unid, Spanish Aero	? ground-air, aero-tfc	a1EU
8983	2335	NMN	USCG Chesapeake, VA	USA w/2135, id: CAMSLANT	a1EU
8987	1607	MKL	RAF, Northwood ?	G CW: Volmet fr EGXW, etc.	a1EU
8989	1523	BT9P	RAF Domine Ops Cranwell	G w/CWL88, 1320z Volmet	a1EU
8989	1635		unids, Belgium AF	? in French,Ch.:YG,QSY to YJ	a1EU
8992	1659	AJE	USAF Croughton	G w/NAVY JM366, wx fr LICZ	a1EU
8992	2300	AFA3	USAF Andrews, MD	USA w/Reach 24N1,pp Hilda west	a1EU
8992	1636	CSE	AF Lisboa	POR w/AFP2__	a1EU
10030	1923		LTU Duesseldorf	D USB,D,wkg UNID a/c	pt53
10051	2053		Gander Aeradio	CAN USB,E,Volmet	pt53
10069	1010		Berna Radio	SUI w/Alitalia 610 s/c EK-JM	a1EU
10206	2015		Stockholm Radio LDOC	S w/HB-IIG	a1EU
10805	1248		Stockholm Radio LDOC	S clg unid	a1EU
11226	0946		UNID	? USB,Russian,selcalls	pt53
11256	1302	Holloway	LDOC Addis Ababa	ETH wkg Ethiopian 3765	ai47
11256	1506	HOLLOWAY	Eth. Air Addis Ababa	ETH `HOLLOWAY out`	a1EU
11268	1633		unids, Belgium AF	in French,Ch.:YJ,QSY fm YG	a1EU
11279	1503		Tbilisi Volmet	GEO R Volmet, YL	a1EU
11297	1129		Rostov Volmet	RUS R Volmet, YL	a1EU
11297	1448		Moskwa Volmet	RUS R Volmet, YL	a1EU
11297	1451		Kiev Volmet	UKR R Volmet, YL	a1EU
11297	1506		Petersburg Volmet	RUS R Volmet, OM	a1EU
11300	2155		Cairo Aero	EGY USB,E,wkg Tripoli Aero	pt53

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11300	1734	Addis Abeba Aero	ETH USB,E,wkg Cairo Aero	pt53
11300	2155	Tripoli Aero	LBY USB,E,wkg Cairo	a1EU+pt53
11300	2153	Mogadishu Aero	SOM USB,E,wkg UNID a/c	a1EU+pt53
11300	1457	STK Khartoum Air	SDN clg Asmara	a1EU
11300	1827	SUC Cairo Air	EGY w/Monarch 5771, s/c AG-FH	a1EU
11300	1501	E3A Asmara Air	ERI w/Khartoum	a1EU
11300	1702	5YD Nairobi Air	KEN w/DLH___	a1EU
11300	1513	ETD3 Addis Ababa Air	ETH clg Cairo	a1EU
11309	1127	CSY Santa Maria Air	AZR w/Fr.Liner 313, s/c AG-FH	a1EU
11318	1509	Koltsovo Meteo	RUS R Volmet, YL	a1EU
11318	1518	Samara Meteo	RUS R Volmet, YL	a1EU
11336	1427	VFG Gander Air	CAN w/unid	a1EU
11345	1745	Stockholm Radio	S w/Condor 870 s/c FL-ADpt53+	a1EU
11362	1451	UNID	RUS USB,Ru,air-tfc	pt53
11387	1630	Sydney Volmet	AUS USB,E,Volmet	pt53
12145	1052	Stockholm Radio	S w/Continental 51	a1EU
12201	1142	Stockholm Radio	S w/Viking 596	a1EU
13282	2045	Hongkong Volmet	CHN USB,E,Volmet	pt53
13327	1000	IBERIA Madrid	E USB,Sp,wkg HLBD	pt53
13330	1404	Cedar Base	LBN USB,E,clg 003	pt53
13333	1403	Speedbird BA London	G USB,E,wkg Saudia 901	pt53
13339	1450	UNID/Air Zaire?	ZAI?USB,F	pt53
13339	1503	SAUDIA Jeddah	ARS USB,E,wkg Saudia 379	pt53
13342	1045	Stockholm Radio	S w/United 915	a1EU
13351	1437	LDOC Oostende	BEL clg unid a/c	lrG
13354	1726	KEA5 New York Air	USA w/Iberia 6663	a1EU
14645	1322	Stockholm Radio	S w/Paric?? 8	a1EU
16207	1415	SDJ Stockholm Radio	S USB,E,wkg Aeroflot	pt53
17907	1908	New York Aero	USA wkg American 141	lrG
17916	1413	SDJ Stockholm Radio	S USB,E,wkg Aeroflota1EU+lrG+pt53	
17946	0050	San Francisco Aero	HWI wkg unid a/c	lrG
17982	1919	LDOC Jeddah	ARS wkg Saudi003	lrG
18006	1302	UNID	? testing selcal codes	lrG
18018	1301	Architect	G OM wx for RAF airfield	lrG
21925	0052	San Francisco Aero	HWI?YL wx info	lrG

## A E R O (aircrafts)

5517	0150	Jambo003 Alliance Air	AIR w/Khart.,Ldn/H-Kilimanjaro	a1EU
5661	1245	TC-RAM Set Air, Cessna 650	AIR clg Malta Control	a1EU
5680	1250	Navy 177 RNY Flight	AIR w/Kinloss Rescue	a1EU
5680	1308	MU CG Helicopter G-BIMU	AIR w/Kinloss Rescue	a1EU
5680	1359	RAF Rescue125 RAF Rescue Flight	AIR w/Kinloss Rescue	a1EU
5685	1210	MAGIC 88 RAF AWACS Flight	AIR w/MKH5	a1EU
5687	1256	GAF002 German AF Flight	AIR w/DHM91	a1EU
5687	1230	JGZ 62 Germ./Joint Guard SFOR	AIR w/DHO23	a1EU
5687	1122	50-47 GAF Transall a/c	AIR w/DHM91, s/c GK-BP !!	a1EU
6730	1535	DAGA 12 Italian AF a/c	AIR USB: wkg unid	a1EU
6739	1440	Reach005 USAF Flight	AIR w/ARCHITECT	a1EU
8879	1540	PH-MCM Martinair 631	AIR w/Gander, s/c CE-BS	a1EU
8894	0008	SAZ 463 Swiss Air-Ambulance	AIR w/Niamey, fm LSZH to DIAP	a1EU
8903	2205	LZ-AFN Air Afrique 9946	AIR w/Kano	a1EU
8903	0040	RCN103F Race Cargo Airlines	AIR w/Kano, to Luanda	a1EU
8906	2310	NyJR170 USNY Flight	AIR w/NY	a1EU
8906	2120	NyWV670 USNY VR-53 sq Flight	AIR w/Santa Maria, C-130 a/c	a1EU
8906	2300	ReachJHX5 by Air Trans.Int/ATN	AIR w/NY, s/c FJ-BM	a1EU
8906	0105	N430RG unid Operator ?!?	AIR w/New York	a1EU
8906	2110	OE-LAT Lauda Italy/LDI 1969	AIR w/New York, s/c DH-BC	a1EU
8930	1600	N618FF Tower Air 8134	AIR w/Stockholm, s/c AC-EH	a1EU
8930	1618	F-____? Air France 2245	AIR w/Stockholm, s/c BM-KS	a1EU
8930	1417	D-BFAR unid Operator ?!?	AIR clg Stockholm	a1EU
8930	1525	SE-DVY Inter Air/INR 505	AIR w/St.,waterford/IRL->Malmo	a1EU
8930	1255	OE-GBA Bannert Air/BBA	AIR w/Stockholm, s/c PQ-GR	a1EU
8930	1815	HB-VMD unid Operator ?!?	AIR w/Stockholm	a1EU
8930	1825	Evergreen 470	AIR w/Stockholm	a1EU
8930	1832	G-TPTT Airtours Int'l/AIH	AIR w/St., aka: Kestrel 903	a1EU
8930	1845	OE-GCC Goldeck-Flug	AIR w/Stockholm, Cessna 560	a1EU

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8930	1900	D-AGEP	Germania 423	AIR w/Stockholm	aLEU
8930	2040	A6-PFD	Abu Dhabi Amiri Flight	AIR w/Stockholm	aLEU
8930	1235	LX-GED	unid Operator ?	AIR clg St., Milano to ?	aLEU
11300	1623	EGY1901	Egypt Air Force	AIR w/Cairo, Milano to ?	aLEU
11300	1815	3D-WKU	Air Burundi/PBU 400	AIR w/Khartoum, HBBA to OMSJ	aLEU
11306	1145	Easy502	Easyjet Airline/EZY	AIR w/Portishead, s/c KM-AB	aLEU
11345	1315	RYN 305	Ryan for Airworld/AWD	AIR w/Stockholm, s/c RS-EF	aLEU
11345	1741	EC-GVB	unid Operator !?!	AIR w/Stockholm	aLEU
11345	1750	GDF 8	Polar Air Cargo	AIR w/St., s/c HK-AL (=N856FT)	aLEU
11345	1325	SU-GBJ	Egypt Air	AIR w/St., s/c DP-FQ Cairo-FFM	aLEU
11345	1330	OO-LTP	Virgin Express/VEX	AIR w/Stockholm	aLEU
11345	1410	Volare 1511	Volare Airlines/I	AIR w/Stockholm, s/c FQ-AE	aLEU
11345	1900	D-ACLX	Lufthansa CityLine/CLH	AIR w/Stockholm	aLEU
11345	0945	EC-GHM	Air Europe/AEA (B767)	E w/St.,s/c JR-AG,pos.Madrid	aLEU
11345	0955	SU-RAA	Shorouk Air/SHK 5021	AIR w/St.,s/c CK-LP,LIPE->HESH	aLEU
11345	1005	9M-MAW	World Airways/WOA (US)	AIR w/St., id as: `world MAW`	aLEU
11345	1420	OY-HGB	Groenlandsfly/GRL	AIR w/Stockholm	aLEU
13342	1345		Aeroflot 326	AIR w/Stockholm, s/c PR-KM	aLEU

## D I G I T A L

147,3	2131	DDH47	Meteo Quickborn	D RTTY 50 AAXX-reports	ti47
100	1918	???	LORAN Sylt	D quick pulses	aLEU
2203	2140	MGJ	RN Faslane	G RTTY 75 CARB-msgs	ti47
2474	2144	PBC	Ny Noordwijk	HOL RTTY 75 CARB-msgs	ti47
2608	2147	FUO	Ny Toulon	F RTTY 75 TESTING RY-SG	ti47
2789	2151	FUE	Ny Brest	F RTTY 75 DE FUE RY SG	ti47
2806	2153	IGJ	Ny Augusta	I RTTY 100 CARB-msgs	ti47
2815	2154	IDR	Ny Rome	I RTTY 75 CARB-msgs	ti47
2817	2158	FDG	AF Bordeaux	F RTTY 50 VOYEZ LE BRICK..	ti47
2829,5	2203	SPB	Szczecin R.	POL SITOR-A tlx to SQIM	ti47
2845	2157	PBB	Ny Den Helder	HOL RTTY 75 CARB-msgs	ti47
3196	1959	OLB7	Meteo Praha	CZE RTTY 50 AAXX-reports	ti47
3248	0210	FDG	AF Bordeaux	F rtty 50 test tx	dpCH
3550	2003	YMA20	Meteo Ankara	TUR RTTY 50 TAF-wx	ti47
3764,4	1548	PBB	Ny Den Helder	HOL RTTY 75 CARB-msgs	ti47
3814	0055	FDG	AF Bordeaux	F R50/425/R: ry	aLEU
4002	2012	YRR4	Meteo Bucuresti	ROU RTTY 50 METAR-reports	ti47
4028	1800	ZBMH	Czech border patrol	CZE BAUDOT 50 Every 15 min RY + c/s (ZBMH, JDP7, SL8W or T7FM)abNL	ti47
4227	0038	IGJ	Ny Augusta	I RTTY 100 CARB-msgs	ti47
4258,5	2047	GYA	DCN London	G RTTY 75 encr. BCST-VMGTCNJ.	ti47
4273	2237	FUO	Ny Toulon	F RTTY 75 NAWS DE FUO RY SG	ti47
4280	1400	PBC	Ny Noordwijk	HOL RTTY 75 CARB-msgs	ti47
4295	0043	HWN	Ny Paris	F RTTY 75 RY-SG DE HWN RY-SG	ti47
4583	2028	DDK2	Meteo Quickborn	D RTTY 50 id, CQ-RY	ti47
4788	1810	FDG	AF Bordeaux	F RTTY 50 TEST DE FDG VOYEZ..	ti47
5086	1435		unid	? R50/425/R:5fgs,50grps::;50;	aLEU
5110	1328	FDG	AG Bordeaux	F R50/425/R: ry	aLEU
5184	2249	FDY	AF Orleans	F RTTY 50 VOYEZ LE BRICK...	ti47
5236,1	1345	FDI8	AF Nice	F R50/425/R: ry	aLEU
5256	1822		unid	? SITOR-A msgs, 5lg and 5ng	ti47
5287,5	1725	RETXX	MOI Madrid	E sitora Krypto msg + call	dpCH
5705	2100		unid, NATO air-ground	? RTTY 75 encr. tfc	ti47
5816	1143	JZG6	unid, tactical	? R50/425/R: 5 FGS to V2GT	aLEU
5831,1	1525		unid Tunesian MOI	TUN R50/170: ATU-80 msgs	aLEU
6333	1836	IGJ	Ny Augusta	I RTTY 100 CARB-msgs	ti47
6348	1408	HWN	Ny Paris	F RTTY 150 FAAA DE HWN RY SG	ti47
6358	0802	PBC	Ny Noordwijk	HOL RTTY 75 CARB-msgs	ti47
6385	1839	FUO	Ny Toulon	F RTTY 75 TESTING RY-SG	ti47
6483	0806	PBB	Ny Den Helder	HOL RTTY 75 CARB-msgs	ti47
6772	1521	YOG59	ROMPRESS Bucarest	ROU R50/425: ry	aLEU
6780	0558		MFA Budapest	HNG DUP-ARQ 125 Encrypted msgs	abNL
6830	1712		PETRA Amman	JOR R50/425: EE press	aLEU
6895	0637	PBC	Ny Noordwijk	HOL PSK-300 encrypted BCST	ti47
6990	0814	FDG	AF Bordeaux	F RTTY 50 test VOYEZ LE BRIC	ti47
7318	0410	SUU	Cairo Meteo	EGY rtty 100 meteo text	dpCH
7355	0820		unid	? ARQE-72 idling fr HOURS+DAYSi47	ti47

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7524	0420	TYE	ASECNA Cotonou	BEN	arqm2 96 bd text+call	dpCH
7642	,7	0759	RFFP	F	ARQM2-200 msg 5lgs fr	hoursti47
7646		1223	DDH7	D	RTTY 50 AAXX-reports	ti47
7677		0749	HBD20	SUI	SITOR-A id RYRYRYRY	ti47
7776	,5	1211	OST33	BEL	SITOR-B service-msgs	ti47
7808		0648	DFZG	YUG	RTTY 75 encryption after	CBti47
7822	,2	2152	RFFA	F	ARQE3-200 fm GUERRE	DIRPOSTEti47
7975		1422	SPW	POL	SITOR-B PP-press, economy	ti47
8043		1218	RFFHCFA	F	ARQE-72 msgs EXERCICE	ti47
8083		1935	RIJ75	UZB	fax 120/576 meteo charts	dpCH
8099	,3	0939	DOR	BUL	RTTY 200 diplo-tlx	ti47
8137	,5	1430	TCY1	TUR	R50: Turkish press	aleu
8148		0655	SNN299	POL	POL-ARQ diplo-tlx, German	ti47
8150		0850	PBB	HOL	RTTY 75 CARB-msgs	ti47
8427		0832	OXZ	DNK	SITOR-B danish-press	ti47
8433		0715	8PO	BRB	sitorA text	dpCH
8435	,5	1435	SAB437	S	SITOR-B svc-info. tfc-list	ti47
8439		0835	PBC	HOL	RTTY 75 CARB-msgs	ti47
8453		1222	HWN	F	RTTY 75 RY-SG-test	ti47
9040		2030	5YE	KEN	rtty 100 call	dpCH
9153		1517	SNN299	POL	POL-ARQ diplo-tlx	ti47
9900		1523	FDI8	F	RTTY 50 TEST DE FDI8	VOYEZ ti47
10100	,8	0904	DDK9	D	RTTY 50 AAXX-reports	pt53+ti47
10215		2217	HZN48	ARS	RTTY 100 AAXX-reports	dpCH+ti47
10314		0809	SNN299	POL	POL-ARQ diplo-tlx, ref.	ti47
10452		1850	UNID	?	POL-ARQ 50 coded msgs	pt53
10535		1855	UNID	?	POL-ARQ 50 coded msgs	pt53
10536		1010	CFH	CAN	fax 120/576 meteo charts	dpCH
10802		1119	TAD	TUR	FECA-144 encr.-tfc, svc-tfc	ti47
10869		1912	RFQP	DJI	ARQ-M 100 controle de voie	pt53
10945		0817	CFH	CAN	RTTY 75 ZKR-tape	ti47
10953		0634	HBD20	SUI	SITOR-A msg 5lg	ti47
10963		0914		?	SITOR-A msg of 5lg	ti47
10967		1124		?	SITOR-A msgs 5lg and 5ng	ti47
10973		1316	HBD20	SUI	SITOR-A 5lg to Madrid	ti47
11039		1250	DDH9	D	RTTY 50 forecasts=147.3 k	ti47
11085		0820	P6Z	F	FECA-192 clg D2Z for test	ti47
11155		0822	DFZG	YUG	FECA-144 encr. after CBCBC	ti47
11430		1503	HMF55	KRE	RTTY 50 ee-nx, PROPAGANDA	ti47
11471		0826	SNN299	POL	POL-ARQ msgs 5ng	ti47
11476		1257	HMF52	KRE	RTTY 50 ee-nx, anti-US	ti47
11550		1258	MKK	G	VFT-50 test, jumping fox,	ti47
12137	,	1817		?	rtty 75 coded msgs, 5fig	pt53
12140		0829	HWN	F	RTTY 150 FAAA DE HWN	TESTINTi47
12587		1510	LZW5	BUL	SITOR-B ship-telex	ti47
12594		0926	IDR	I	RTTY 75 CARB-msgs	ti47
12601	,5	1303	OXZ	DNK	SITOR-B DK-navpress	ti47
12615		1307	USU	UKR	SITOR-A tex in 3rd shift	cyti47
12627		1523	USU	UKR	SITOR-A ship-telex	ti47
12664	,5	0928	FUO	F	RTTY 75 NAWS DE FUO RY SG	ti47
13479		0841	RFFP	F	ARQM2-200 msg 5 lg	ti47
13840		1321	GXQ	G	VFT-50 test, jumping fox,	ti47
13852		1156	AND6	E	POL-ARQ msg, 5ng to SNN244	ti47
13933		0846	DOR	BUL	RTTY 200 diplo-tlx	ti47
13996	,5	1159	STK	SDN	R50/425/R: ch (SKA)	aleu
14445	,5	1545	MKK	G	rtty 50 ry,foxes,testing	pt53
14511	,5	0905	MKK	G	PICC/6 1ch ryi/foxes	pcG
14544	,5	2130	GXQ	G	PICC/6 4ch ch1 op chat	pcG
14585	,7	1620	RFTPA	TCD	ARQE3/200/400 FDZ - Paris	pcG
14593	,5	2055		?	PICC/? s/ch idle	pcG
14626	,7	0750	RFLI	MRT	arqe3 192 bd	dpCH
14809		0856	GXQ	G	VFT 50 jumping fox, RY-SG	ti47
14825	,5	2144	MUH	?	PICC/6 2ch ch1 op chat	pcg
15672		1642		?	SITOR-A cont. msgs 5lg,noid	ti47
15917	,4	0907	8WB1	RUS	RTTY 50 clg 8WD4, test,	ti47
16310	,2	0912	RFFA	F	ARQE3-200 msg, NON-PROTEGE.	ti47
16310	,2	1930	RFFA	F	ARQE3/200/400 to ?	pcG
16324	,7	1700	RFTJD	GAB	ARQE3/192/400 JDJ to Dakar	pcG

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16777	1610	UNID	? SITOR-B,E,PHL nx,16.25 off	pt53
16840,5	0944	UHK	GEO SITOR-A unid ship	ti47
16905	1540	FUV	DJI ITA2/75/850 `faaa de fuv`	pcG
16915	1545	FUX	REU ITA2/75/850 `faaa de fux`	pcG
16922,7	1300	RBSL	IND ITA2/50/850 ry vth.. mkr	pcG
16927	1305	UIW	KAL ITA2/50/170 long msg	pcG
16951,5	1554	6WW	SEN ITA2/75/850 "le brick" test	pcG
16961,5	1559	FUF	MRT ITA2/75/850 ryry test	pcG
17422,7	1840	RFFVAT	TUR ARQE3/200/400 FKW to Paris	pcG
17441,5	1837	5YE	KEN ITA2/100/850 wx rtps	pcG
17521,8	1830	HSW61	THA ITA2/50/170 wx rpts	pcG
17550,9	0915	RFTJ	SEN ARQE3-192 msg NON-PROTEGE..	ti47
17550,9	1315	RFTJ	SEN ARQE3/192/400 AFL to Paris	pcG
18040	1115	TCY4	TUR RTTY 50 TUR-nx	ti47
18496	0921	CNM80	MRC RTTY 50 AA-nx	ti47
18503,7	1250	RFFA	F ARQE3/192/400to Ft de France	pcG
18750,5	1730	UNID DCN	? PICC/6 2ch idle/crypto	pcG
19860	1124	MGJ	G RTTY 75 CARB-msgs	ti47
22537	2140	FUF	MRT ITA2/75/850 sgsg test	pcG

T I M E S I G N A L

3330	0215	CHU	NRC Ottawa	CAN E,F time signal	zeTC
9996	0553	RWM	TSS Moscow	RUS cw Time signals / id	abNL
10000	0555	WWV	NIST Boulder	USA AM/CW Time sig./annd	abNL
12984	2010	VNG	TS Llandilo	AUS second pips	zeTC+dmRU
15000	1437	WWVH	NBS Kekaha	HWA E,YL-anns,TA,TS	zeTC
16000	0810	VNG	TS Llandilo	AUS USB,E YL TA,TS	zeTC

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AFS-Cape Town R.	71	p/d Globe cd/e-mail	8431,5	ZSC		dmRU
AIR-Air Canada 868	20	ltr,foto,time-table	8864	C-GPWA		aLEU
AIR-European Air Transport7		ppc (fl. BCS 082)	8903	EI-BNA		aLEU
AIR-Inter Air	30	ltr (fl. INR 505)	8930	SE-DVY		aLEU
AIR-Rescue 6114	26	ppc,lt,sti/ms,fo	3116	Rescue 6114		dp47
AIR-Rescue 6115	25	ppc/ms,fo	3116	Rescue 6115		dp47
AIR-Swiss Air-Ambulance	8	ppc (fl. SAZ 463)	8930	HB-IKT		aLEU
ARG-Argentina R.	34	ppc,QLS,vc/fo,IRC	12581	LSD836		dp47
BLR-TS Molodechno	244	QLS-cd,i/fo,IRC	25,1	RJH69		dp47
CAN-Gander Volmet	122	lt,i/vc,IRC	6604			dmRU
D -GAF Wunstorf	107	ppc,lt,sti,fo/fo,ms	5687	DH032	1000 w	dp47
D -WSP Emden	20	ppc,sti,badge/fo,ms	3206	DHL61	500 w	dp47
DNK-Copenhagen Meteo	30	ppc,Ham-cd/fo,IRC	9360	OXT		dp47
DNK-Lyngby R.	45	f/d cd,i/vc,IRC	4303	OXZ		dmRU
EST-Kuressaare Resue	16	ppc,lt,vc	5680		600 w	dp47
EST-Tallinn Rescue	28	ppc,lt,fo/IRC,fo	5680		600 w	dp47
EST-Tallinn Volmet	28	lt,fo,NDB-info/fo,IRC	4645		1000 w	dp47
F -AF Nice	12	QLS-lt/IRC,fo	7671,5	FDI8	400 w	dp47
F -AF Narbonne	11	QLS-lt/IRC,fo	4618	FDI22	400 w	dp47
F -AF Bordeaux	15	lt,sti/IRC,fo	4613,5	FDG		dp47
F -AF Bordeaux	10	lt,sti/fo,ms	6841	FDG5	400 w	dp47
F -AF Metz	36	lt,sti/fo,ms	6844,5	FDC	400 w	dp47
F -CROSS Gris-Nez	19	ppc,lt,i/IRC,fo	2182		250 w	dp47
F -CROSS Med	38	lt,ppc/IRC,fo	2182		1000 w	dp47
F -CROSS Corsen	20	ppc,i/fo,IRC	2182		1000 w	dp47
FIN-Turku R.	17	ppc,lt,i/IRC,fo	2182	OFK		dp47
G -MAFF Base London	51	ppc,lt/IRC(back),fo	6647	MAFF Base		dp47
G -Portishead R.	43	f/d cd,i/vc,IRC	3616	GKY1		dmRU
GRC-Ikaria Aero	2y	QLS-lt,lt,i/IRC,fo	5637	`LGIK`	400 w	dp47
GUM-Agana R.	18	QLS-cd/IRC,fo	12629	KHF		dp47
HKG-Hongkong R.	24	f/d folder,sti,fo`s	13044	VRX41	7500 w	dp47
HWI-Kahalehani R.	23	ppc/fo,IRC	12611,5	KEJ		dp47
I -COMPAMARE Manfredonia22		ppc/IRC,fo	6815		25 w?	dp47
I -COMPAMARE Mazara d.V.17		ppc/IRC,fo	6815		150 w	dp47
I -COMPAMARE Messina	47	ppc/IRC,fo	6815		250 w	dp47

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I	-GAF Piacenza SFOR	240	ppc,lt,sti/fo,ms	5687	NI81	1000 w	dp47
I	-MRSC Reggio di Calabria	18	ppc/IRC,fo	6815	ICI05	150 w	dp47
I	-MRSC Trieste	71	QSL-1,lt,chart/IRC,fo	6815	ICI10	250 w	dp47
I	-MRSC Cagliari	30	ppc,sti/IRC,fo	6815	ICI13		dp47
IW	-FGS Bad Rappenau	13	ppc/fo,ms	3116	DREZ	100 w	dp47
IW	-FGS Breitgrund	47	ppc,vc/fo,ms	3116	DRXS		dp47
IW	-FGS Dillingen	6	ppc,fo,vc/ms,fo	5680	DREX	150 w	dp47
IW	-FGS Frauenlob	21	ppc/ms,fo	3116	DRGI		dp47
IW	-FGS Hameln	8	ppc,badge/fo,ms	4145,5	DRFO	100 w	dp47
IW	-FGS Mittelgrund	46	ppc/ms,fo	3116	DRXP		dp47
IW	-FGS U 12	102	ppc/fo,ms	3116	DRDF	100 w	dp47
IW	-FGS Unid	49	ppc,lt/fo,ms	3116	5MKR (tactical?)		dp47
IW	-FGS Weihe	14	ppc/ms,fo	3116	DRBQ		dp47
IW	-Lfb Alfred Krupp	34	ppc/ms,fo	1600	DBAA	400 w	dp47
IW	-Lfb Bernhard Gruben	68	ppc/ms,fo	1660	DBBS		dp47
IW	-Lfb Berlin	14	ppc/ms,fo	1660	DBAH		dp47
IW	-Lfb Bremen	9	ppc/fo,ms	1660	DBAS		dp47
IW	-Lfb Eiswette	4	ppc,vo/ms,fo	1660	DBAL	250 w	dp47
IW	-Lfb Hannes Glogner	18	ppc,vc/fo,ms	1660	DBAJ		dp47
IW	-Lfb Hans Lüken	68	ppc/ms,fo	1660	DBAR	400 w	dp47
IW	-Lfb Hermann Helms	25	ppc,vc/ms(back),fo	1660	DBAM	400 w	dp47
IW	-Lfb John T. Essberger	13	ppc/fo,ms	1660	DBAI		dp47
IW	-Lfb Minden	33	ppc/ms,fo	1600	DBAP	400 w	dp47
IW	-Lfb Nis Randers	20	ppc/ms,fo	1660	DBAF		dp47
IW	-Lfb Vormann Leiss	13	ppc/fo,ms	1660	DBAQ		dp47
IW	-Lfb Vormann Steffens	17	ppc/fo,ms	1660	DBAE		dp47
IW	-Lfb Wilhelm Kaisen	17	ppc/fo,ms	1660	DBAK		dp47
IW	-MV Grampian Hunter	41	ppc,lt,fo,i/IRC,fo	2182	MPPH5	400 w	dp47
IW	-MV Maersk Chignecto	41	ppc,ham-cd,i/IRC,fo	2182	VCJC	250 w	dp47
IW	-MV Shetland Service	114	ppc,lt,vc/IRC,fo	2555	GRHJ	150 w	dp47
IW	-WSP Coastvessel W4	20	ppc/fo,ms	3206	DH4566	250 w	dp47
J	-Nagasaki R.	45	f/d lt/vc,IRC	8706	JOS	3000 w	dmRU
NOR	-Bergen R.	99	ppc,lt,i/IRC(back),fo	2182	LGN		dp47
NOR	-Rogaland R.	71	p/d Globe cd/e-mail	8683,5	LFI		dmRU
NZL	-Awanui R.	21	ppc/ms,fo	8417	ZLA		dp47
QAT	-Doha R.	58	f/d lt/vc,IRC	8473,5	A7D	5000 w	dmRU
ROM	-Bucuresti Meteo	386	ppc/IRC,fo	5399,6	YOG37		dp47
RUS	-Arkhangel'sk R.	58	ppc,vc/IRC(back),fo	8610	UCE	5000 w	dp47
RUS	-Irkutsk Volmet	48	ppc/fo,IRC	13267		1000 w	dp47
RUS	-TS Irkutsk	838	ppc,i/IRC,fo	10004	RID	5000 w	dp47
S	-Gotland Rescue	880	new QSL-cd NO f/up!	5680		1000 w	dp47
S	-Goeteborg R.	71	p/d Globe cd/e-mail	4259	SAB		dmRU
SVB	-Hopen R.	30	ppc (hrd at Vardoe)	2182	LMR		dp47
USA	-Palo Alto R.	71	p/d Globe cd/e-mail	12695,5	KFS		

dmRU

Finally, after 9 years of fighting I got my QSLs for PTT Rarotonga and PTT Manihiki from Telecom Cook Islands with a short note written on the back of my PPCs: "The transmission you received was in the days when Radiocommunication in the Cook Islands was undertaken by the Cook Islands Post and Telecoms. We no longer have HF communications (only as a back up). Since 1992 we have had satellite communications from Rarotonga to Manihiki. The same for the other Islands of the Cook Islands. We use Standard B Earthstations..." Rarotonga used a Racal 83c as tx, Codan 7004 Single channel USB as rx, radiated power of tx was

500 watts PEP into a terminated dipole. Manihiki used a Codan 6801 both as rx and tx, 100 watts PEP into a Codan 407 antenna. (rk50)

## Membership and Money corner:

A note from the treasurer: Fee received from ggG (tnx, Gurdip). Due to renew for

September are the gentlemen hl71 (Heinz) and ibG (Ian). For November the OM's: rb55, hb31, fd40, zeTC, bg48, wk08, km40, mo76, dp47, hs61, ps50, js38, ht45, sw67, fvI and pt53.

To pt53: OM Zdenek (zeTC) says a big "Thank you" for the two utility books!!!!

## Addresses/Infos/Veri-signers:



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An important note on the german Coaststations (WSP) DHQ60, DHL61, DHL62 and the vessels DH4222, DH4296, DH4565, DH4275 and DH4274. OM Dieter QSLed one Coaststation and one vessel (W4). So he send out further reports and got a VERY `unfriendly` letter. I have seen this letter and I please you NOT to send any report. You will get deep trouble with the german authorities instead of a QSL! Thanks for this info, Dieter.

FDG5 is closed down since 1st February 1998 (dp47)

Air Canada: Air Canada Flight Operation, P.O.Box 6002, Lester B. Pearson Int'l Airport, Toronto AMF, Ontario L5P 1B4, Canada (v/s Captain S.F. Little, Chief Pilot B767) (a1EU)

European Air Transport/EAT: Building 4-5, Brussels National Airport, B-1930 Zaventem, BEL (v/s Iwein Van Caelenberg, Director of Operations)(a1EU)

Swiss Air Ambulance/SAZ: Swiss Air-Ambulance Ltd., P.O.Box 1414, CH-8058 Zurich-Airport, SUI (v/s Jet-Operations/OF)(a1EU)

Inter Air/INR: Inter Air AB, Box 27, S-230 32 Malmoe-Sturup (a1EU)

A note by ti47:

EUNL on CD-ROM: Hi there! A few weeks ago I received the WUN-CD-ROM via OM rb55.

Nice stuff, really. So I came to the idea to do the same for the EUNL. My idea is to produce a CD-ROM that is usefull to all (!!!!) UTDXers on any computersystem, likely MS-DOS/WIN, MAC and ATARI. The CD should support all modern databases (e.g. dbase for DOS/WIN, PHOENIX for Atari), containing also textfiles for actual platforms (Papyrus for DOS, WIN and ATARI, DOCs for Winword) and also grafics and clips for hybrid use (PCX, BMP, JPG or IMG). You don't know which station you've heard? No problem! An assorted library of soundexamples (in WAV, HSN or something like that) may help. You see, my intention is to help DXers on all operating systems (DOS/WIN for PC, TOS/MiNT/UNIX for Atari and System/OS for MAC). It would be nice, if anybuddy would help if he wants to or send in material. If the majority of you is interested in that project I'm planning to release the CD end of 1999 or beginning of the year 2000. Any comments on that please to: Thomas Ingenpass, Mozartstr. 2, D-47623 Kevelaer, GERMANY. (ti47)

Note from your editor: This futureproject is an idea of OM Thomas. Please send your comments and suggestions directly to him as the time of yours truly does not allow any work on this.

Thanks for the able work to following (13) contributors: pt53, dp47, pcG, ti47, abNL, a1EU (your fixed logs will be in EUNL 11-98), dmRU, j1S, lrG, ai47, zeTC rk50, (gsLX - your QSL's will be in EUNL 11-98 - space problems...),dpCH gd dx + 73`s; until next month @

Andreas

EUROPEAN UTILITY NEWSLETTER 11-98

\*\*\*\*\*  
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\* \*  
\* Deadline: 20th of the month!!! \*  
\*\*\*\*\*

Hi folks,

I can proudly announce, that our member pt53 (Hans-Peter) has created a list with all utility addresses published in EUNL and the Utility Section of the EAWRC (East and west Radio Club)! This list will be updated from time to time.

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An info can be found then at the homepage. For the new link >>Address<< surf to EUNL-Homepage.

## N D B

277	1401	CHT	Chiltern for Northolt	G	id	moF35
282	1403	LA	Lyneham	G	id	moF35
284	2254	GRN	Gorna	BUL	id	nrSP
284,5	1633	LZ	Lizard	G	id+tone	moF35
285	1943	GR	Granada	E	id	aiE
286	1325	TR	Tuskar Rock	IRL	id+tone	moF35
288	1328	OH	Old Head of Kinsale	IRL	id+tone	moF35
289,5	2247	NP	Punta Carena	I	id+dash	nr76
290	2242	TR	Tirana/Rinas	ALB	id	nr76
292	2002	MLL	Mellia	MEL	id	aiE
293,5	2140	RO	Cabo Silleiro Lt.	E	id+tone	aiE
297	0202	PEP	Prilep	MKD	id+tone	mo76
300	1902	MZ	Mizen Head	IRL	id+tone	moF35
301	2358	CA	Pointe de Breach	F	id+dash	nr76
305,7	1148	CE	Ceuta	CEU	id+tone	aiE
306,5	2027	RS	Ristna	EST	id+tone	nr76+mo76
306,5	0046	H	H	POL	id+dash	nr76
308	2310	BN	Unid (maritime)	?	id+dash	nr76
309,5	1652	PB	Bill of Portland	G	id+tone	moF35
310	1448	R	Pointe de Ver	F	id+tone	moF35
310	2305	MAN	Unid	?	id+tone	nrSP
314,5	2258	TL	Punta della Penna	I	id+dash	nr76
316	1404	EPM	Epsom for Heathrow	G	id	moF35
316	2216	OE	Dublin	IRL	id	mo76
317	2235	TNJ	Unid	?	id+dash	nrSP
318	0240	KLP	Dubrovnik/Kolocep	HRV	id	nrTR
321	1334	GV	Granville	F	id+tone	moF35
321	2108	ABT	Albacete	E	id	moF35
322	0211	GDA	Gdansk/Rebiechowo	POL	id	mo76
322	1514	LCY	London/City	G	id	moF35
323	2125	SMA	Santa Maria	AZR	id	aiE
324	2309	MOU	Moulins	F	id+dash	nr76
325	0152	AVS	Asturias	E	id	nr76
327	1518	MVC	Merville/Calonne	F	id+tone	moF35
327	2110	POR	Porto	POR	id	moF35
328	1326	BLK	Blackbushe	G	id	moF35
328	1854	HIG	San Sebasti n	E	id	moF35
328	2310	KAM	Ljubljana/Brnik/Dolsko	SVN	id+tone	nrSP
329	1520	NS	Niort/Souch,	F	id+tone	moF35
330	2130	RMA	Malaga	E	id	aiE
330	2138	LEN	Leñ	E	id	moF35
331	1336	TUR	Tours/St. Symphorien	F	id+tone	moF35
331	1429	GST	Gloucestershire	G	id	moF35
332	1405	SHM	Shoreham	G	id	moF35
332	1427	GIF	Guiscriff/Scaer	F	id+tone	moF35
333	1456	PH	Penzance Heliport/Culdroseg		id	moF35
334	1431	GMN	Gormanston	IRL	id	moF35
335	1346	WCO	Westcott	G	id	moF35
336	2112	MTL	Monte Real	POR	id	moF35
337	1937	EX	Exeter	G	id	moF35
337	2226	MY	Myggenaes	FAR	id	mo76
337	0250	VRN	Vranje	YUG	id+tone	nrTR
338	2120	PST	Porto Santo	MDR	id	aiE
338	1938	GE	London/Gatwick	G	id	moF35
339	2133	BIA	Bournemouth	G	id	moF35
339	2223	AY	Velikiye Luki	RUS	id	mo76
340	1438	HAW	Hawarden	G	id	moF35
340	0245	BLK	Banja Luka	BIH	id+dash	nrTR
343	1511	RDL	Redhill	G	id	moF35
345	1442	LUT	London/Luton	G	id	moF35
346	2150	HIJ	Hinojosa del Dunque	E	id	aiE
348	1445	FOS	Fairoaks	G	id	moF35
348	2210	TPL	Topola	YUG	id+tone	mo76

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349,5	1324	COM	Compton Abbas	G	id	moF35
350	0545	GM	Malaga	E	id	aiE
350	2240	SK	Zagreb/S.Kraljevec	HRV	id+dash	nrSP
351	1340	DSA	Dieppe/St. Aubin	F	id+tone	moF35
352	1942	WOD	Woodley	G	id	moF35
354	1525	CGC	Cognac/Chfteaubernard	F	id+tone	moF35
356	2154	SGO	Sagunto	E	id	aiE
356,5	1315	SM	St. Mawgan	G	id	moF35
357	2117	LP	Cholet/Le Pontreau	F	id+tone	moF35
358	1908	BRS	Biscarrosse/Parentis	F	id+tone	moF35
358	2047	K	Stavropol/Shopakovskoye	RUS	id	mo76
358	2115	BRG	Braganca	POR	id	moF35
359	2118	CA	Cascais	POR	id	moF35
359	2120	AL	Salamanca	E	id	moF35
361	0020	NB	Bordeaux/Merignac	F	id+dash	nr76
362	2005	CJN	Castejon	E	id	moF35+nr76+aiE
362,5	1352	SND	Southend on Sea	G	id	moF35
363,5	1353	CT	Coventry	G	id	moF35
365	2122	GY	London/Gatwick	G	id	moF35
365	2123	VDG	Vitigudino	E	id	moF35
366	2001	COR	Cordoba	E	id	aiE
367,5	1946	OX	Oxford/Kidlington	G	id	moF35
368	1528	WTD	Waterford	IRL	id	moF35
369	1947	RCH	Rochester	G	id	moF35
371	2133	STR	Sintra AB	POR	id	aiE
374	0735	TAN	Tanger	MRC	id	aiE
375	1530	BRG	Bourges	F	id+tone	moF35
376	2231	BJA	Beja AB	POR	id+tone	aiE
377	1341	PNT	Pontivy	F	id+tone	moF35
378	0040	TRI	Trogir for Split	HRV	id+dash	nrSP
379	0031	CZ	Charleville/Meziers	F	id+dash	nr76
380	1343	AL	Alencon/Valframbert	F	id+tone	moF35
380	2210	KA	Tirana/Rinas	ALB	id	nrTR
382	2126	LAR	Arruda for Lisboa	POR	id	moF35
384	2029	MT	Unid	?	id	nr76
385	2210	VR	Ras Lanuf v40	LBY	id	aiE
388,5	1952	CDF	Cardiff	G	id	moF35
389	2105	CP	Lisbon/Caparica	POR	id	moF35
391,5	1320	EAS	Southampton/Eastleigh	G	id	moF35
396,5	1322	PY	Plymouth/City	G	id	moF35
397	1321	LYX	Lydd	G	id	moF35
397	2214	CV	Dubrovnik/Cavtat	HRV	id	nrTR
397	0031	EG	Grenoble/St. Geoirs	F	id+dash	nr76
399	2128	MTN	Salamanca	E	id	moF35
401	1403	LA	Laval/Entrammes	F	id+tone	moF35
404	1400	CNE	Caen/Carpiquet	F	id+tone	moF35
405	0255	SZ	Unid	?	id	nrTR
406	1506	BHX	Birmingham	G	id	moF35
407	1503	GAR	Dublin/Garristown	IRL	id	moF35
413,5	0050	GLT	Falati/Sendreni	ROM	id	nr76
414	2220	GR	Dubrovnik/Gruda	HRV	id+dash	nrTR
418	1458	MK	Calais/Dunkerque	F	id+tone	moF35
419	1459	LSO	UNID (also at 2142)	?	id	moF35
421	1501	BUR	Burnham	G	id	moF35
421	2248	ZA	Unid	?	id (twice all 14 sec.)	nrSP
424	2130	HRW	London/Heathrow	G	id	moF35
426	2131	IW	Bembridge	G	id	moF35
426	2132	CB	Coimbra	POR	id	moF35
427	1507	RY	Royan/Medis	F	id+tone	moF35
428	2136	MNF	Sevilla/Moron	E	id	moF35
429	1458	SSD	London/Stansted	G	id	moF35
433	2138	JRZ	Jerez	E	id	moF35
433	2151	VGO	Vigo	E	id	moF35
433,5	1503	HEN	Henton	G	id	moF35
470	2052	PRD	Peyrehorade	F	id+tone	moF35
478	1858	GA	Powidz/Rozniaty	POL	id	zeTC
545	1504	LIC	Lichfield	G	id	moF35
553,5	1932	CO	Compiègne/Margny	F	id+tone	moF35

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653	0734	TD	UNID	RUS	id (local beacon)	dmRU
690	1920	SR	Serende	UKR	id	zeTC
740	1720	RT	UNID	RUS?	id (12 x = 1 min)	dmRU
749	2042	Ae	Begishevo	RUS	id	dmRU
1145	0122	KK	UNID	?	id (8 x =1 min)	dmRU

## F I X E D

3521	2010	OK	unid, Spanish Military	E	usb-wkg FR	aLEU
3755,3	2358		Unid stn n. Krashnodar	RUS	cw-Pips	abNL
3883	2044		UNID	?	w-hhmm time (UTC+4)	dmRU
3903	2240		Unid	?	Powerful pulse jammer	abNL
4017	1810	SNN299	MFA warsaw	POL	cw i/d	pcG
4029	0520	M10	Unid	?	cw-Missed start 435into 5FGabNL	
4029	0528	M1	Unid	?	cw-555x3 571x3 13 275x3 25	abNL
4039	2150	M51	Unid	F	cw-5LG`s	abNL
4111	2213		Russian Air Defense	RUS	cw-BT99T213??T?????	abNL
4331	2213		Ny Haifa	ISR	cw-vvv de 4XZ + pl msg	abNL
4471	2122	WWAN	Unid (Russian mil?)	?	cw WWAN clg 8DQN,9XCX and GCCD.	
Msg 616	92	11 = T 47	into 92 5LG's (Cyrillic alfabet).		Ends with = 186 K K	abNL
4503	2223		Time station (M18)	RUS	cw-Time in UTC+4: 0223	abNL
4665	2017	KPA2	Mossad	ISR	am-KPA2 repeatedly	dmRU
4801	2146	ONC5I	Unid Greek mil, Corfu	GRC	cwEndless repetition of c/sabNL	
4802	2114		Backwards Music station	?	TONES Different from others	abNL
4904	2000	M1	Unid	?	cw-025(R4) 517 517 40 40 =	abNL
4904	2000	M1A	Unid	?	cw-025 End of month xmission	abNL
4930	2155	M1C	Unid	?	cw-216 216 216 96210 96210	abNL
4930	0549	M51	Unid	F	cw-nr36 A 20 07:49:51 1998	abNL
4948	2020		Cyrillic letter station	?	cwTransmits Cyrillic characters separated by a space mark	abNL
4962	1553	SNN299	MFA Warsaw	POL	cw-vvv	aLEU
5009	1235	DPQT	unid, static tactical	?	cw-5 fgs to M5RT	aLEU
5021,5	1125	FDI8	AF Nice	F	cw-vvv	aLEU
5025	1842	FDI8	AF Nice	F	cw-vvv	zeTC
5077	1810	RAC32	unid	RUS	cw-wkg RAQ51, 5 FGS/T	aLEU
5091	2043		English Lady	?	am-5LG`s	dmRU
5111	1317	RMP	Ny Kaliningrad	KAL	cw-channel-mkr P //5861	aLEU
5118	1800	FR4P	unid, tactical	?	cw-wkg QAN5, ... QYT6 K	aLEU
5154	2046	P	Ny Kaliningrad	KAL	cw-channelmarker	dmRU
5154	2046	C	Ny Moscow	RUS	cw-channelmarker	dmRU
5170	2048		English Lady	?	am-5LG`s	dmRU
5180	1033		unid, Number Station	?	cw-marker `T47/TT`	aLEU
5213	1703	RMP	Ny Kaliningrad	KAL	cw-wx QTC to RKZ	aLEU
5213	1810	FDI8	AF Nice	F	cw-vvv	aLEU
5222	0540		Unid	?	cw-Endless JTV8, for hours	abNL
5230	1817		Mossad/Israeli Intell.	ISR	AM: vmf E `KPA2`	aLEU
5237,5	1355	FDI22	AF Contrexeville	F	cw-vvv	aLEU
5245	1635	MRV92	RAF ATC London	G	usb-Roy.Tournament exhib.	aLEU
5257,5	1245	FDI22	AF Contrexeville	F	cw-vvv	aLEU
5278	1802	M1A	Unid	?	cw025 End of month xmission	abNL
5294,5	1305	FAG20	AF Metz	F	usb-aka: G20, wkg G48	aLEU
5301	1819	FDY	AF Bordeaux	F	cw-vvv, chirpy modul.,sp?	aLEU
5321,5	1819	FDY	AF Bordeaux	F	cw-vvv, chirpy modul.,sp?	aLEU
5339	2145	TMS	Mossad (E10)	ISR	AM TMS2	abNL
5342	0800	FDY	AF Orleans	F	cw-vvv	pcG
5343	2028	RIT	Ny Vaygach	RUS	cw-wx, then clg RJP90	dmRU
5363	1312	2U	unid, French Military	F	cw-w/04? open French txt	aLEU
5383,5	0145	1IR	unid, NATO	?	usb-wkg K7R, tracking rep	aLEU
5391	2051	V	RUS Ny Khiva	UZB	cw-channelmarker	dmRU
5403	1340		RAF Buchan (UKADGE Ch.:XA)		usb-wkg K7J, tracking rep	aLEU
5448	0200	FDG	AF Bordeaux	F	cw-vvv	aLEU
5470,7	0908	IPS	IPS Beacon	AUS	cw, and several RTTY tests	ewAU
5530	1947		Mossad/Israeli Intell.	ISR	AM:vmf E VLB2, 1818z: MIW2	aLEU
5738,5	1300	9V1	unid, Dutch Military	?	usb-wkg 9A1	aLEU
5746	2103		English Lady	?	usb-66269 repeatedly	dmRU
5858	0714	FDE14	AF Contrexeville	F	cw-vvv	zeTC
5862	1315	RMP	Ny Kaliningrad	KAL	cw-channel-mkr P //5111	aLEU
6620	1304	F1IM	unid, tactical	?	cw-clg C23L	aLEU

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6688	1530	GXW	Ny Portland Ops	G	usb-wkg T1P	aLEU
6693	1705	7HT	unid, NATO tactical	?	usb-wkg 3JU	aLEU
6706	1148	PQ	unid, Brit. MAFF Net	G	usb w/GB, fisheries pos rep	aLEU
6715	1315		RAF Buchan (UKADGE Ch.:PO)		usb-wkg IOL, tracking rep	aLEU
6715	1735		unid Number Station	?	usb vmm QUEEN ROBERT UNION	aLEU
6722	1935	OVK	Marine Aarhus	DNK	cw-wkg OCC, coord.fr RTTY	aLEU
6724	1520		RAF Buchan (UKADGE Ch.:TG)		usb-wkg K7J, tacking rep	aLEU
6727	1407	JWT	Ny Stavanger	NOR	usb-wkg 6CJ	aLEU
6728	1623		Russian Net, Military?	?	usb-unid, regular on	aLEU
6729	1615	DAGA 74	Italian AF a/c	AIR	usb-wkg VENTA?	aLEU
6730	1411	DHJ59	Ny wilhelmshafen	D	usb-wkg V8I, coord.fr RTTY	aLEU
6733	1530	IDR	Ny Rome	I	usb-wkg A2F, wx fr LIEE	aLEU
6733	1410	DAGA 88	Italian AF a/c	AIR	usb-wkg SPADA (?) 86	aLEU
6745	1619		Mossad/Israeli Intell.	ISR	AM: vmf E `KPA2`	aLEU
6753	2058	RFFN	unid, static tactical	?	cw:w/RFFR fr QSA,5 lgs QTC	aLEU
6758	1205	MKL	RAF, Northwood ?	G	cw-wx bull. to 6LP	aLEU
6760	1610	FPI	Ny St. Assise	F	usb-id: Papa India,wkg K9T	aLEU
6768	1813	FDG	AF Bordeaux	F	cw-vvv	aLEU
6773	2115	30	unid, NATO Military	?	usb-wkg 40,20	aLEU
6780	1537		FAPSI/Russian Intell.	?	cw-mkr `167 167 167 ...`	aLEU
6781,5	0307		Russian Air Defence	RUS	CW:time-mkr:=99T7T??T?????	aLEU
6785	1045	6PWJ	Unid	?	cw ABYZ DE 6PWJ	ewAU
6786	1005	RUM	Unid	RUS?	cw 5 ltr grps ENDS == RUM	ewAU
6810	1500	Fantom01	unid, Russian (Military?)		usb-clg unids	aLEU
6815	1507	ICI01	MRSC/CG Genova	I	usb-clg IHTB	aLEU
6815	1505	ICI05	MRSC/CG Reggio Calabria	I	usb-clg IHTB	aLEU
6815	1840	NA2	CG AirSta Luni-Sarzana	I	usb-wkg ICI__	aLEU
6817,5	2309	FDG	AF Bordeaux	F	cw-vvv	aLEU
6820	0100	BRASHKA	Chelyabinsk Air	RUS	usb-Net 4: wkg ALENKI	aLEU
6820	0115	ALENKI	Yekaterienburg (Koltsovo)		usb-Net 4: OM,R	aLEU
6820	0135	AMBA	Samara Air	RUS	usb-Net 4: YL,R	aLEU
6820	0120	AMBARCHIK	Aktyubinsk Air	KAZ	usb-Net 4: YL,R	aLEU
6820	0125	DUNIS	Kustanay Air	KAZ	usb-Net 4: YL,R	aLEU
6820	0145	KAPEL	Omsk Air	RUS	usb-Net 4: YL,R	aLEU
6820	0142	KATIUSHA	Novosibirsk Air	RUS	usb-Net 4: YL,R	aLEU
6820	0128	SHPORA	Rostov-na-Donu Air	RUS	usb-Net 4: YL,R	aLEU
6820	0147	TSADIK-2	Surgut Air	RUS	usb-Net 4: YL,R	aLEU
6820	0200	YELOVY	Karaganda Air	KAZ	usb-Net 4: clg Latyshka	aLEU
6820	0155	ZOOTEKNIK	Tjumen Air	RUS	usb-Net 4: YL,R	aLEU
6825	1513	FAV22	Army Mont-Valerien	F	cw-morse training lessons	aLEU
6840	1747		Mossad/Israeli Intell.	ISR	AM: YL, EE 5 LGS: Group 94	aLEU
6844,5	1840	FDC	AF Metz	F	cw-vvv	pcG
6845	0130	LATYSHKA	Akmola Air	KAZ	usb-Net 4: w/METE`JOKA ?	aLEU
6845	0135	YELOVY	Karaganda Air	KAZ	usb-Net 4: YL,R	aLEU
6845	0135	KASTIANKA	Uralsk Air	KAZ	usb-Net 4: YL,R	aLEU
6845	0128	KAVRIGA	Semipalatinsk Air	KAZ	usb-Net 4: wkg YELOVY	aLEU
6845	0129	DUNIS	Kustanay Air	KAZ	usb-Net 4: wkg YELOVY	aLEU
6845	0134	AMBARCHIK	Aktyubinsk Air	KAZ	usb-Net 4: YL,R	aLEU
6845	1829	KARSAK	Almaty Air	KAZ	usb-Net 4: w/METE`JOKA ?	aLEU
6846	1710	Q1LC	unid, tactical	?	cw-wkg __8F fr QTA QLX	aLEU
6852	1800	V5G	MFA Sofia, BUL	BUL	cw-op chat, ...GE 73/88	aLEU
6871,5	0145	FDG	AF Bordeaux	F	cw-vvv	aLEU
6873	1650	RMP	Ny Kaliningrad	RUS	cw-wx QTC to REO	aLEU
6873,5	1330	ICS	Ny La Spezia	I	usb-wkg IHBC	aLEU
6880	2230	Tavola 4	unid, Ital. Ny Vessel	IWA	usb-wkg Tavola 1	aLEU
6880	0255	Tavola 2	unid, Ital. Ny Vessel	IWA	usb-wkg Doria	aLEU
6880	1527	Doria	unid, Ital. Ny, Base?	I	usb-wkg Tavola 1	aLEU
6880	1839	Tavola 1	unid, Ital. Ny Vessel	IWA	usb-wkg Tavola 2	aLEU
6880,5	2227		Russian Air Defence ?	RUS	cw-time-mkr: =99TT27...	aLEU
6904	1505	RCV	Ny Moscow	RUS	cw-wx for Black Sea	aLEU+dmRU
6910	1648	FDG	AF Bordeaux	F	cw-vvv	aLEU
6914	1846		UNID	?	cw 2 stns manual cw - lang	?pcG
6920	1405	_9PO	unid, Italian Military	I	usb-wkg A_MW (A3MW ?)	aLEU
6992,5	1008	MFP34	RNY Cadets	G	USB Stns:MFP34,MFM38,MFJ04,	abNL
6994	0450		UNID	?	cw-4FG`s	dmRU
6998,5	1444	DEK88	DRK Bonn	D	cw Test de DEK88	abNL
9186	0217	HEP9	Kantonspolizei Zuerich	SUI	cw-vvv	dmRU
10301	0758		Unid	AUS	usb,arr. at Mount Burnham	ewAU

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10858	1206		Unid	?	cw-five letter groups	ewAU
10872	0513	C	Ny Moscow	RUS	cw-channelmarker	dmRU
11147	0610	M12	Unid	?	cw-484 484 484 000 (R5)	abNL
11155	1230	RIT	Unid	RUS	cw-five letter groups	ewAU
11300	1355	OI3V	unid, tactical	?	cw-wkg 7P1Z fr QST	alEU
11319,9	1357	BR6	unid	?	cw-cq-mkr, 1400z: 3 LGS	alEU
12150	0650		Unid	?	strong carrier-sweep jammer	abNL
12150	2130		Unid Counting Station	?	AM in progress	abNL
13528,2	1000	C	Ny Moscow	RUS	cw-continous C	ewAU
13906	1201		CIA Number Station	?	usb vmf E `222 1234567890`	alEU
14262	1330	PARTA 57	unid Russian,Military?	RUS	usb-wkg GRAJ 07, writing?	alEU
14654,5	1917	SPW	Warszawa R.	POL	cw-de, qsx 12568.0	dmRU
14656	1918	SPW	Warszawa R.	POL	usb-qsx 12257	dmRU
14931	1853	8BY	France Intel.	F	cw-vvv	pcG+dmRU
16015	1020		Unid	?	cw-muddled CW transm.	ewAU
18152	0926	RJH25	unid Russian, Navy?	RUS	cw-wkg RMSB, duplex?	alEU

## M A R I T I M E

2182	2006	SPN	Witowo R.	POL	USB,E/Poln. no tfc	pt53
4245	1833	UFN	Novorossiysk R.	RUS	cw-cq + rtty msg	pcG
4399	1036	VID	Darwin R.	AUS	USB, priv.phonecalls	ewAU
6290	2021	RJP90	UNID	RUS?	cw-clg RIT	dmRU
6322	2120	ZSC	Capetown R.	AFS	cw-id + sitor	zeTC
6389	2103	CTP	Ny Oeiras	POR	cw-vvv	dmRU
8423,5	1020	3AC	Monaco R.	MCO	cw-id + sitor	pcG+zeTC
8448	2130	A9M	Bahrain R.	BHR	cw-cq	pcG
8457	1350	PKP	Dumai R.	INS	cw-cq de PKP gru? k	zeTC
8511	1436	XSW2	Taichung R.	TWN	cw-cq, qsx	zeTC
8526	1446	KFS	Palo Alto R.	USA	cw-id + sitor	zeTC
8539	1907	VRX35	Hong Kong R.	CHN	cw-cq	dmRU
8541	1520	A9M	Bahrain R.	BHR	SITOR/A tlx/cw mkr	pcG
8571	1832	UFN	Novorossiysk R.	RUS	cw-cq	pcG
8586	1901	USO	Izmail R.	UKR	cw-clg 4KI, qsw 525.5	pcG+dmRU
8600	1530	XSV	Tianjin R.	CHN	cw-cq	pcG
8601,3	1456	ZLO4	Ny Irirangi	NZL	cw-de ZLO zay	zeTC
8658	1540	ASK	Karachi R.	PAK	cw-vvv - vy strong	pcG
8740	1516	OXZ	Lynby R.	DNK	usb E/DNK tfc list	zeTC
8743	1549	HSW	Bangkok Meteo	THL	usb, YL wx+melody maker	zeTC
12320	1953		m/v Fort Shevchenko	IW?	usb-clg Kaliningrad	dmRU
12356	1948		Kaliningrad R.	KAL	usb-clg m/v Karacharovo	dmRU
12477,5	1800	GKFY	MV Baltic Eider	IW	SITOR/A wkg GKE msg	pcG
12579	1910	NMC	USCG San Francisco	USA	SITOR/B wx + info msgs	pcG
12579,5	1900	9VG80	Singapore R.	SNG	SITOR/A tlx/cw mkr	pcG
12583,5	1739	UUI	Odessa R.	UKR	SITOR/a cw/tlx mkr	pcG
12584,5	1730	WLO	Mobile R.	USA	SITOR/A tlx/cw mkr	pcG
12587	1746	LZW54	Varna R.	BUL	SITOR/A msg to ship	pcG
12602,5	0934	KFS	Palo Alto R.	USA	cw-stn marker	ewAU
12647	1926	LPD	General Pacheco R.	ARG	cw-id + sitor	zeTC
12689,5	1139	NAR	USNy Key west	USA	usb, E relay AFRTS px	zeTC
12719,8	0955	ZLO	Ny Auckland	NZL	cw-de	pcG
12780,5	1916	9AR	Rijeka R.	HRV	cw-vvv	dmRU
12801	1914	TAH	Istanbul R.	TUR	cw-de	dmRU
12891	1831	UFN	Novorossiysk R.	RUS	cw-cq	pcG
12939	0503	SPE61	Szczecin R.	POL	cw-DE SPE61 and msgs	ewAU
12940	1905	LZW	Varna R.	BUL	cw-cq, tfc list	dmRU
13083	2345	VIS	Sydney R.	AUS	usb wkg SEA PRINCESS	ewAU
13173	1917	UCE	Arkhangelsk R.	RUS	usb,R r/t tfc,id	zeTC
16736	1530	ATQM	Unid	IW	cw-clg jos	pcG
16818,5	1630	9VG96	Singapore R.	SNG	SITOR/A tlx/cw mkr	pcG
16819,5	2221	NMN	Portsmouth USCG	USA	SITOR/A tlx/cw mkr	pcG
16822	1600	3AC	Monte Carlo R.	MCO	SITOR/A tlx/cw mkr	pcG
16826	1553	ESA	Tallin R.	EST	SITOR/A cw/tlx mkr	pcG
16828	2122	WLO	Mobile R.	USA	cw-id + sitor	pcG+dmRU
16829	1530	USU	Mariupol R.	UKR	SITOR/A tlx/cw mkr	pcG
16836,5	1557	WLO	Mobile R.	USA	SITOR/A tlx/cw mkr	pcG
16841,5	2236	8PO	Barbados R.	BRB	SITOR/A tlx/cw mkr (Globe)	pcG
16886	1245	TAH	Istanbul R.	TUR	SITOR/A tlx/cw mkr	pcG

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16892	1248	XSG	Shanghai R.	CHN SITOR/A tlx/cw mkr	pcG
16898,5	1551	UAT	Moscow R.	RUS SITOR/A cw/tlx mkr	pcG
16938	1254	VTG8	Ny Bombay	IND cw-vvv vtg4/6/7/8/9	pcG
16976	2000	LSD836	B.Aires R.	ARG SITOR/A tlx/cw mkr (Globe)	pcG
17021,5	1302	TAH	Istanbul R.	TUR cw-de	pcG
17050,4	1450	ASK	Karachi R.	PAK cw-cq	pcG
17052,5	1129	JNA	JMSA Tokyo	J CW-vvv + wx	pcG
17066,5	2110	A9M	Bahrain R.	BHR cw-id + sitor	dmRU
17085	1500	USU	Mariupol R.	UKR cw-clg ujvo	pcG
17103,2	1528	XSG	Shanghai R.	CHN cw-cq	pcG
17113	1959	GKB	Portishead R.	G cw-vvv, tfc list	dmRU
17141	1830	UFN	Novorossisk R.	RUS cw-cq qsw 4245/8571/12891/17	pcG
17147	1839	URL	Sevastopol R.	UKR cw-cq	pcG
17161,3	1250	VIP	Perth R.	AUS cw-cq	pcG
17164,8	1845	ZSC7	Capetown R.	AFS cw-cq	pcG
17165,8	1847	CLA41	Havana R.	CUB cw-cq	pcG
17175	1850	A9M	Bahrain R.	BHR cw-cq	pcG
17230	2130	CWA	Cerrito R.	URG cw-cq	pcG
17254	1529	DZO	Bulacan R.	PHL usb,E,clg ELQQ9	zeTC
17263	1643	DZH	Manila R.	PHL usb,E/Philipino,OM-id,tfc	zeTC
17278	1656	PPR	Rio R.	B usb,P, r/t tfc, OM-id	zeTC
17285	1548	DZM	Bulacan R.	PHL usb,E,YL-id: This is D-Z-M	zeTC
17296	1709	A9M	Bahrain R.	BHR usb,A/E r/t tfc,nice id	zeTC
17299	1556	UDN	Novorossiysk R.	RUS usb,melody mkr, R YL-id	zeTC
17341	1608	HLS	Seoul R.	KOR melody mkr: Song of Joy	zeTC
17373	1612		`Centaur`	RUS?R r/t tfc,id (Navy??)	zeTC
17380	1621	DYC	Cebu R. (nice, ed)	PHL usb,Philipino r/t,tfc OM-id	zeTC
18898,5	1235	UAT	Moscow R.	RUS SITOR/A tlx/cw mkr	pcG
19696,5	2240	8PO	Barbados R.	BRB SITOR/A tlx/cw mkr (Globe)	pcG
19706	2005	LSD836	B.Aires R.	ARG SITOR/A tlx/cw mkr (Globe)	pcG
22588,5	1610	LPD71	Gr1. Pacheco R.	ARG cw-vvv	pcG
22603,6	1600	PPR	Rio de Janeiro R.	B CW-vvv	pcG
22681,5	0709	UIW	Kaliningrad R.	KAL cw-station marker	ewAU

## A E R O (Ground - stations)

5680	2203		Kinloss Rescue	G usb,E,wkg Rescue 193	pt53
5691	2057		Irkutsk Meteo	RUS usb-wx for Irkutsk, Bratsk	dmRU
5714	2100	Architect	RAF Upavon	G usb-places and codes	dmRU
6617	2056		Rostov Volmet	RUS usb,Ru,Volmet	pt53
6655	1237		San Francisco	USA clg Continental Airlines	ewAU
6676	2040		Bangkok Volmet	THA usb,E,ID, Volmet	pt53
6820	0520		Aero network	RUS usb-Emba (Kirov), etc	dmRU
7885	0445		Aero network	KAZ usb-Yelovy (Karaganda),etc	dmRU
8837	1908		LDOC E1 AL	ISR usb,tfc,hebr.	pt53
8861	2058		Dakar Aero	SEN usb,E,wkg Sabena 507	pt53
8879	1929		Gander Aero	CAN usb,E,wkg Union 262	pt53
8888	0433		Syktyvkar Meteo	RUS usb-wx for Pechora, Usinsk	dmRU
8891	1916		Iceland Aero	ICL usb,E,wkg Ny SW12	pt53
8894	1644		Gao Aero	MLI usb,wkg Niamey	ibG
8903	2147		Kinshasa Aero	ZAI usb,E,wkg Lufthansa	pt53
8903	2147		N`Djamena Aero	TCD usb,E,wkg Springbok 275	pt53
8933	2051		Springbok SA Airways	AFS usb,wkg Springbok 205	pt53
8939	2025		Rostov Volmet	RUS usb,Ru,Volmet	pt53
8942	1922		Singapore Aero	SNG usb,E,wkg a/c	pt53
8942	1926		Hongkong Aero	CHN usb,E,wkg UNID	pt53
8957	2052		Shannon Volmet	IRL usb,E,wx,ID	pt53
10072	2018		Speedbird BA London	G usb,E,wkg Speedbird 35	pt53
11279	1252		Tashkent Volmet	UZB volmet in russian	ewAU
11285	1651		Chennai Aero	IND usb,E,wkg Saudia 881	pt53
11285	1653		Kuala Lumpur Aero	MLA usb,E,wkg Singapore 322	pt53
11288	2208		Saudia Djedda	ARS usb,E,wkg Saudia 003	pt53
11297	1625		Rostov Volmet	RUS USB,Ru,Volmet	pt53
11300	2158		Cairo Aero	EGY usb,E,wkg Air France 853	pt53
11300	2157		Mogadishu Aero	SOM usb,E,wkg UNID a/c 077	pt53
11300	2012		Tripoli Aero	LYB usb,E,wkg Cairo	pt53
11300	2205		Seychelles Aero	SEY usb,E,wkg Mogadishu	pt53
11300	2230		Khartoum Aero	SDN usb,E,wkg MKW 2310	pt53

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11306	1408	GKX	Portishead Radio	G	usb,E,wkg YC 95	pt53
11336	1721		Gander Aero	CAN	usb,E,wkg KLM 0625	pt53
11354	1629	Falcon	Falcon Bahrain	BHR	usb,E,wkg a/c	pt53
11362	1826		UNID	RUS	usb,Ru,air-tfc	pt53
11363	1908		LDOC Britannia	G	usb,E,wkg a/c	pt53
11366	2014		LDOC VARIG	B	usb,P,tfc w/UNID a/c VC 013	pt53
11369	2122		Ezeiza Volmet	ARG	usb,Sp,Volmet	pt53
11387	1704		Sydney Volmet	AUS	usb,E,Volmet	pt53
13327	0947		IBERIA Madrid	E	usb,Sp,wkg AEBJ	pt53
13342	1456	SDJ	Stockholm Radio	S	usb,E,wkg Germania 801	pt53

A E R O (aircrafts)

6532	1223		Air France 274	AIR	clg TOKYO pos. report	ewAU
6586	2100	TU-TGF	Air Inter Ivoire	AIR	usb,wkg Abidjan	ibG
8867	0550		Pacific-910	AIR	usb,wkg Nandi	ibG
8867	0612		Flight West-726	AIR	usb,wkg Brisbane, FL260	ibG
8903	2134	LAC-5074	Lockheed	AIR	wkg Libreville Regn: 5N-TNO	ibG
8903	1830	D2-ESV	Sonangol	AIR	usb,wkg Libreville	ibG
8903	2147	TR-LDB	Air Affaires	AIR	usb,wkg N'djamena	ibG
8903	2109	POT-9232	Polet Aviakompania	AIR	usb,wkg Kisangani FL270, REG: RA-82075 AN-124	ibG
11300	2053	UKS-2708	Avialux	AIR	usb,wkg Nairobi Reg: UR-UCC	ibG
11300	2100	UAF-312	Dubai Air wing	AIR	usb,wkg Mogadishu	ibG
11300	0632	LTF-112F	Air Liberte	AIR	usb,wkg Tripoli	ibG
11300	2114	LWA-101	Liberia world	Air	usb,wkg Khartoum	ibG

D I G I T A L

2528,9	1830		UNID	?	3ch system 192/170 FEC/A ?	pcG
2720	2304	RDE73	Samara Meteo	RUS	fax 60/576 wx map	zeTC
3297	2050	FDG	AF Orleans	F	rtty,50/425,testing	pt53
3360	2301	RPN71	Kiev Meteo	UKR	fax 90/576 wx	zeTC
3765	2104	PBB	Ny Den Helder	HOL	rtty,850/75 mrk	pt53
3855	1936	DDH3	Hamburg Meteo	D	fax 120/576 ice-chart	zeTC
4018	2102	XW6T	Czech Border Guards	CZE	BAUDOT 50 Starting up gear.	
First 50bd RTTY burst, then briefly into Crowd36, then Polytones (!) and back to 50bd RTTY changed freq to 4020, then RY's + c/s XW6T. Lateron they switched again, now to 4016 kHz						
4020,4	1845	VBGM	Czech Border Guards	CZE	BAUDOT 50 RY`s new c/s+freqabNL	abNL
4020,4	1915	TS4X	Czech Border Guards	CZE	BAUDOT 50 RY`s new c/s+freqabNL	
4020,4	2015	PV3Z	Czech Border Guards	CZE	BAUDOT 50 RY`s new c/s+freqabNL	
4020,4	2115	XW6T	Czech Border Guards	CZE	BAUDOT 50 RY`s new c/s+freqabNL	
4044	2209	ZBMH	Czech Border Patrol	CZE	BAUDOT50 ever 15 min RY+c/sabNL	
4246	1745		UNID?	?	100/170 cont ?	pcG
4526,5	2322	SUU	Cairo Meteo	EGY	fax 120/576 air forecast	zeTC
4610	2025	GFA22	Bracknell Meteo	G	fax 120/576 wx forecast NAT	zeTC
4782,5	1520		UNID	?	ARQE/85.7/170 idle/crypto seems to be linked to 5781 ??	pcG
4950,5	2100		DCN UNID	G	PICC/12 s/ch cont crypto	pcG
4972,4	1410		MoI UNID	D	ARQE/96/85 cont idle	pcG
5184	1230	FDY	AF Orleans	F	ITA2/50/400 le brick/ry test	pcG
5325	2112	RCW75	Almaty Meteo	KAZ	fax 60/576 wx charts	zeTC
5376,5	1500	OST23	Ostend R.	BEL	SITOR/B/170 tfc list	pcG
5775	1530		UNID	?	Russian/81/230 cont	pcG
5781	DAILY		UNID	?	ARQE/85.7/170idle into crypt sesms to be linked to 4782.5	pcG
6340,5	2135	NMF	USCG Boston	USA	fax 120/576 surface E.Atla.	zeTC
6496,5	2201	CFH	CF Halifax	CAN	fax 120/576 ice chart NFL	zeTC
6984	1530	SNN299	MFA Warsaw	POL	POL-ARQ/100/300 Dip tfc	pcG
7470	1144	VLM	Casey Base (nice, ed)	ANT	fax 120/576 gd clear wx map	ewAU
7595	2208	AOK	USNy Rota	E	fax 120/576 wind forecast	zeTC
8040	1731	GFA23	Bracknell Meteo	G	fax 120/576 wind forecast	zeTC
8085	1450	MKK	DCN London	G	VFT-ITA/50/170 foxes idling	pcG
8130	0843	FDY	AF Orleans	F	BAUDOT 75 test tape	abNL
8159,2	1227	RFTJ	FNy Dakar	SEN	ARQ-E3 200/425idling no tfc	ewAU
8331,5	2100	GYA	Ny London	G	fax 120/576 wind forecast	zeTC
8431	2215	TAH	Istanbul R.	TUR	SITOR/B traffic list	pcG
9045	2230	5YE	Nairobi Meteo	KEN	fax 120/576 wx forecast	zeTC



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9050	2128	AOK	USny Rota	E fax 120/576surface pressurezeTC
9203	1755		UNID 81-81	? 81/170 cont ? pcG
9340	2057	RCH72	Tashkent Meteo	UZB fax 60/576 surface analysiszeTC
9360	1832	OXT	Copenhagen Meteo	DNK fax 120/576,cw-id,ice-chartzeTC
9380	1530	P6Z	MFA Paris (RFGW)	F FEC/A/192/400 long idling pcG
10121	0714	SUU	Cairo Meteo	EGY fax 120/576 air analysis zeTC
10132,3	2246	TNL	Brazzaville Meteo	ZAI rtty 50/650 wx etc. ewAU
10136	1154		Unid	? 72/400 idling only 72 baud ewAU
10261,5	0557		Unid	? Picollo idling sig., no tfcewAU
10371	1151		Unid	? RTTY 50 strong encr. sig. ewAU
10536	1911	CFH	CF Halifax	CAN fax 120/576 isobaric forec.zeTC
10569,5	1152		Unid	? twinp 100/170 encr. text ewAU
10915,1	1215		Unid	RUS baudot 50/170 encr. msgs ewAU
10917,7	2105	RFTJ	FF Dakar	SEN ARQE3/48/400 TJF to P.Bouet pcG
10955,7	0622	RFTJ	FNY Dakar	SEN 48/850 idling signal onyl ewAU
10980	0735	RDD79	Moscow Meteo	RUS fax 120/576 wx chart zeTC
11061,7	0730	JKT	Emb.	INS SITOR-A 100/170 Emb. tfc ewAU
11117,4	1010		Unid	? 72/170 idling signal,no tfcewAU
11214,2	1247		Unid	? unksys 100/850 encr. msgs ewAU
12140	0914	HWN	Ny Paris	F ITA2/150/850 test - 150 bds!pcG
12202,5	2135	MKD	Cyprus DCN	CYP PIC/6 2ch gyu de mkd goto f3299
12276,5	2200	MKD	Cyprus DCN	CYP PIC/6 2ch same as above pcG
12662,3	0905		Unid	? baudot 100/850 encr. tfc ewAU
12678	0857	LFI	Rogaland R. / Globe w.	NOR SITOR-A 100 msg to mv abNL
12750	1927	NMF	USCG Boston	USA fax 120/576 request+commentzeTC
12790	0610	NMG	USCG New Orleans	USA FAX 120/576 wx map ewAU
13502,5	0818		Unid	? PICOLLO idling engineer ch.ewAU
13597,4	0914	IMB56	Roma Meteo	I fax 120/576 air forecast zeTC
13855	1317	OXT	Copenhagen Meteo	DNK fax 120/576 ice chart zeTC
13951	0810	HBD20	MFA Berne	SUI SOTOR/A/100/170 5ltr gps pcG
13954,4	1015	HBD20	MFA Berne	SUI SITOR/A 5ltrgs to Helsinki pcG
13976	1505	HBD20	MFA Berne	SUI SITOR/A 5ltrgps pcG
14486	1100	P6Z	MFA Paris (RFGW)	F FEC/A/192/400 to O6P(Riyadh)pcG
14511,5	1610	MKK	DCN London	G PICC/6 mts de mkk zub 1611z pcG
14530	1230	A9C	F Emb Bucharest	ROU FEC/A/192/400 msg to RFGW pcG
14544,5	0657		Unid	? PICOLLO idling sig. no tfc ewAU
14545,5	0923		Unid	? fax wx map from unid. loc. ewAU
14553	1320	A9C	F Emb Bucharest	ROU FEC/A/192/400 wkg Paris/p6z pcG
14573	1130		JANA Tripoli	LBY rtty 50 A nx pt53
14593,5	1815		DCN UNID	? PICC/? s/ch idle pcG
14626,7	1830	RFLI	Ft. de France FF	MRT ARQE3/192/400 LIJ to Dakar pcG
14681	0900	--	MFA Bucharest	ROU ROU-FEC/164.5/400 crypto tfcpcG
14837	1419	ATV65	New Delhi Meteo	IND BAUDOT 50 Synops abNL
14845,5	1820	GYU	DCN Gibraltar	GIB PICC/6 2chch1 de gyu ry testpcG
14886	0821		Unid	? RTTY 75/230 encr. text ewAU
14912,7	1422	DFZG	MFA Belgrade	YUG BAUDOT 75 encrypted msgs abNL
14926,7	1840	RFTJ	FF Dakar	SEN ARQE3/192/400 TJD toLibrevilpcG
14959,7	1850	RFTJ	FF Dakar	SEN ARQE3/192/400 TJI to Ft-de-FpcG
14975	1110	P6Z	MFA Paris (RFGW)	F FEC/A/192/400 to O9B (Cairo)
15833,5	0747		Unid	later wkg SRZ944 (warsaw) 5ltrs pcG
15873	1255	P6Z	MFA Paris	? PICOLLO idling engineer ch.ewAU
15898	0800	P6Z	MFA Paris	F FEC/A/192/400 5ltr gps pcG
16260	1155	P6Z	(Nouakchot) + ry test. later MFA Paris (RFGW)	F FEC/A/192/400 clg Z4D pcG
16302	1425	DFZG	MFA Belgrade	later P8C (Beirut) lots of tfc pcG
16951,5	1258	6WW	FNY Dakar	YUG BAUDOT 75 encrypted msgs abNL
16961,5	1300	FUF	FNY Ft. de France	SEN ITA2/75/850 le brick mkr pcG
17020	1300	UDK2	Murmansk R.	MRT ITA2/75/850 ry/sg mkr pcG
17180	1857	HWN	Ny Paris	RUS ITA2/50/170 ry test pcG
17445,5	1902	5YE	Nairobi Meteo	F ITA2/75/850 ry/sg mkr pcG
18055	1428	DFZG	MFA Belgrade	KEN fax 120/576 air analysis zeTC
18057,5	2100	MKK	London DCN	YUG BAUDOT 75 encrypted msgs abNL
18201	1130	V5G	MFA Bucharest	G PICC/6 s/ch mts de mkk chat pcG
18524,7	0630		Unid	ROU ROU-FEC 164.6 encr. msgs ewAU
19635	0700		UNID? F MFA	? unksys 300/300 idling sig. ewAU
19718	1304	UDK2	Murmansk R.	F FEC/A/192/400 cont idle pcG
				RUS ITA2/50/170 long wx msg pcG

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19724,5	1305	UIW	Kaliningrad R.	RUS ITA2/50/170 ry test ans16678pcG
19860	0755	MGJ	Ny Faslane	G ITA2/75/400 CARB msgs pcG
20633,7	0800	RFVI	FF Le Port	REU ARQE3/100/400 REI to Paris pcG
22435	1157	UFL		RUS SITOR-A 100/170 selcalling ewAU

T I M E S I G N A L

2500	2312	ULA4	TSS Tashkent	UZB cw-timesignals + id	abNL
4996	2302	RWM	TSS Moscow	RUS cw-timesignals + id	abNL
5000	2305	ULA4	TSS Tashkent	UZB cw-timesignals + id	abNL

FRENCH MILITARY (INTERNAL) EXERCISES SEP/OCT 1998 ARQE/72/400 pcG

FREQ	CID	RID	DAY	MO	TIMES	REMARKS
3205	UFA	UAF	WED/23/SEP		2230-0700	HERMES 982 FAVIERES de RFFXCFA
3242	UBF	UFB	THU/08/OCT		2124-2210+	exeat/983 msgs
3242			FRI/09/OCT		0740-	
3550	UFP	UPF	FRI/09/OCT		1800-2130+	RFFCCC de RFFHCFP ZNR msg
3550	-	-	SAT/10/OCT		0730-0930+	idle with no tfc
3710	UBF	UFB	THU/08/OCT		2119-2210+	fm DETECOLTRANS QUATRE ISSOIRE
						to RFFEDFA/DET. UN LAVAL RFFXCFB/DET. DEUX THIONVILLE
4024	-	-	THU/08/OCT		2110-2210+	idle
4024	UPF	UPF	FRI/09/OCT		0800-2130+	RFFHCFP/RFFHAD de RFFFLC + 5ltr gp msgs. Exercise not mentioned.
5018	-	-	WED/07/OCT		1150-1615	nil tfc/off
5129	UBF	UFB	THU/08/OCT		0955-1410	EX. msgs
5134	UAF	UFA	WED/07/OCT		1440-1855	EXEAT/983 msgs
5134	UAF	UFA	THU/08/OCT		0640-2210+	RFFEDFA de SOUGE ZNR
5149	-	-	THU/08/OCT		1430-?	idle/
5190	-	-	TUE/06/OCT		1515-1730	idle/nil tfc/off
5190	UFP	UPF	WED/07/OCT		1510-?	EXEAT/983 msgs
5190	-	-	MON/12/OCT		1110-	UFP c.d.v. msg + idle
5192.5	UFD	UDF	WED/07/OCT		2236-?	RFFEDFA de RFFXCCS
5262	UFC	UCF	WED/07/OCT		1147-?	EXEAT/983 msgs
5267	-	-	TUE/22/SEP		1358-2120+	idle/nil tfc
5279	UFB	UBF	THU/08/OCT		0900-2215+	fm DETECOLTRANS DEUX THIONVILLE to DETECOLTRANS UN LAVAL
5309	UFA	UAF	WED/07/OCT		1139-1500	EXEAT/983 msgs
5309	UFA	UAF	THU/08/OCT		1845-2210+	RFFXCFB RFFXCFD de RFFEDFA
5355.5	UDF	UFD	WED/07/OCT		1450-?	EXEAT/983 msgs
5355.5	UDF	UFD	THU/08/OCT		1820-?	fm DETECOLTRANS DEUX THIONVILLE to DETECOLTRANS QUATRE ISSOIRE
5426	-	-	TUE/22/SEP		1300-1314	idle/nil tfc/off
5818	UFA	UAF	WED/23/SEP		0810-1500	Ex. HERMES 982 RFFWAC de RFFXCFA
5827.5	-	-	TUE/22/SEP		2135- ?	idle - off by next morning
5901.5	UCF	UCF	THU/08/OCT		0725- ?	RFFEDFC de SOUGE ZNR
6862.5	-	-	WED/07/OCT		1456-1510	idle/nil tfc/off
6888.5	-	-	THU/08/OCT		0903-1015	idle/nil tfc/off
6956	UAF	UFA	WED/23/SEP		1125-2200	HERMES 982 RFFXCFA de RFFEBC
6956	-	-	THU/24/SEP		0730-?	idle/nil tfc/ off?
7416	-	-	TUE/06/OCT		1530-1730	idle/nil tfc/off

Two exercises logged during this period. `HERMES 982` on the 22/23 Sep. (Tue/We) Only CIDs/RIDs noted were UAF/UFA. The second was `EXEAT/983` was a more extensive exercise, with many frequencies and CIDs/RIDs used. This took place from the 7th - 9th Oct. On Fri evening the 9th Oct, when all exercise activity had apparently ceased, two frequencies were still active. 4024 (UPF) and 3550 (UFP). 4024 was very active with long 5 letter group messages and also some long plain language(French) messages, one particularly seemed to contain dates/details for next years (1999) exercise dates!

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AFS-Ny Capetown	17	f/d cd	12849	ZSJ 5	10000 w	pt53
E -NDB Jerez	22	lt,ppc,i for fax rpt	433	`JRZ`	50 w	moF35

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F	-AF Bordeaux Merignac	114	lt via Orl,ans	7663,5	FDG	400 w mo76
F	-AF Metz	114	lt via Orl,ans	3768,5	FDC	400 w mo76
F	-AF Nice	114	lt via Orl,ans	7335,2	FDI8	400 w mo76
F	-AF Orl,ans	114	cd,stir direct	5342	FDY	mo76
F	-NDB Bourges	4	ppc direct fr fax rpt	375	BRG	10 w moF35
F	-NDB Niort/Souche	9	ppc,infos direct	329	NS	100 w moF35
G	-Humber CG	11	f/d lt	2182		250 w lrg
G	-NDB Bembridge	7	ppc for fax rpt	426	IW	50 w moF35
G	-NDB Birmingham	18	ppc,infos for fax rpt	406	BHX	moF35
G	-NDB Coventry	6	lt,ppc for fax rpt	363,5	CT	49 w moF35
G	-NDB Eastleigh	11	ppc,i for fax rpt	391,5	EAS	100 w moF35
G	-NDB Gloucestershire	3	ppc for fax rpt	331	GST	22 w moF35
G	-NDB London/City	8	ppc for fax rpt	322	LCY	10 w moF35
G	-NDB Luton	6	lt,ppc,i for fax rpt	345	LUT	100 w moF35
G	-NDB Rochester	5	ppc for fax rpt	369	RCH	25 w moF35
G	-NDB Southend on Sea	5	lt,infos for fax rpt	362,5	SND	moF35
I	-MRSC Ancona	131	ppc,lt/SASE	6915	ICI 07	gsLX
I	-MRSC Trieste	79	lt,ppc,i direct	6815	ICI10	250 w mo76
I	-Nuclea Aereo GC Pescara	85	ppc,i	6815	NA3	25 w?mo76
IW	-FGS Mhlhausen	102	ppc/SASE	3116	DRMV	100 w gsLX
IW	-FGS Schleswig	19	ppc	8335,5	DREA	mo76
IW	-FGS Werra	21	ppc	10192,5	DRHM	1000 w mo76
IW	-FGS U-16	88	ppc	10192,5	DRDJ	100 w mo76
IW	-MV Aberdonian	36	ppc/SASE	2182	MLHC2	400 w gsLX
IW	-MV Emilia	39	ppc/SASE	2182	ICJE	400 w gsLX
IW	-MV Evans Tide	58	ppc,lt/SASE	2182	GBKV	250 w gsLX
IW	-MV Far Scotsman	14	ppc/SASE	2246	GCHW	gsLX
IW	-MV Grampian Clansman	56	ppc,ltr/SASE	2182	MRPM7	gsLX
IW	-MV Grampian Highlander	63	ppc/SASE	2182	MMEW4	gsLX
IW	-MV Grampian Monarch	56	ppc,lt/SASE	2182	MKCH7	800 w gsLX
IW	-MV Grampian Sword	48	ppc/SASE	2182	GVUP	gsLX
IW	-MV Maersk Polar	250	ppc/SASE	2182	C6NB5	gsLX
IW	-MV Oil Transporter	7	ppc/SASE	2182	MSPH9	gsLX
IW	-MV Putford Achilles	28	ppc,lt/SASE	2182	MMNK8	gsLX
IW	-MV Putford Shore	36	ppc,i/SASE	2182	GVXE	250 w gsLX
IW	-MV St.Luke	43	ppc,lt/SASE	2182	GHNM	gsLX
IW	-MV Toisa Puffin	41	ppc/SASE	2182	C6KA8	250 w gsLX
IW	-MV Toisa Intrepid	7	ppc,i/SASE	2182	C6PW6	gsLX
IW	-MV Veesea Zircon	34	ppc,photo/SASE	2182	ZHFW7	gsLX
IW	-MV Viking Boy	22	ppc,i/SASE	2182	C6006	150 w gsLX
IW	-RV Corystes	39	ppc/SASE	2182	GHRU	5 w gsLX
IW	-USS Halyburton	41	ppc,photo/SASE	14441.5	NNN0CBR	600 w gsLX
MEX	-Veracruz R.	45	lt SS rpt	8803	XFU	lrg
MLA	-Penang R.	125	ppc,ltr/SAE	17142.4	9MG	5 kw gsLX
POL	-Gdynia R.	46	f/d cd/vc,IRC	13122	SPC	dmRU
POL	-Gdynia R.	46	f/d cd/vc,IRC	8482	SPH	dmRU
SUI	-Bern R.	27	ppc,QSL/SAE	8782	HEB	10 kw gsLX
SVK	-Bratislava R.	100	lt,ppc,infos	13057	OMC	500 w mo76
TRD	-Piarro Aero	95	f/d l	8855		5000 w pt53
URG	-Cerrito R.	47	lt/vc,IRC	12750	CWA	dmRU
USA	-MARS Republic	34	ppc,pin/SASE	14441.5	NNN0UTO	3000 w gsLX
USA	-TS Fort Collins,CO	33	cd	15000	WWV	lrg
USA	-USCG San Francisco	34	f/d cd,i	16816,5	NMC	10000 w pt53

Membership and Money corner:

Fee received from fVI, h171 and dp47 (Thanks Flavio, Heinz and Dieter!)

Addresses/Infos/Veri-signers:

Help is needed for the following:

QRG -- UTC -- Callsign -- Station -- ITU -- details -- Name  
 5649 2300 Rescue11/AP6Y/Shanwick/Gander/Island AP6Y=Aurora Geir Låstad

I have earlier never reported happenings, but I may have an interesting case here. At the NAT freq. 5649, the 28<sup>th</sup> august 1998, 2300 Utc, I heard Rescue 11 called Shanwick about an Aurora Aircraft! I understand that the Aurora plane was missed. Rescue11 was at that moment at flight level 30 or 300 (I think he said 300). The position was 56N 30W. As the comms evolved, also

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Gander and Island was being involved. Rescue11 asked Shanwick for the Aurora aircrafts callsign. After a couple of minutes of checking, Shanwick told Rescue11 that they did not have the Aurora aircrafts callsign. But after about 5 to 10 minutes, they called Rescue11 and told them that the callsign was AP6Y. Was this a search for the top secret Aurora plane? They specific (many times) called the missed plane for 'The Aurora Aircraft' when they talked together. I did never hear the Aurora itself, but it was interesting anyway. I will appreciate a comment in e-mail on this: nada@online.no  
Best regard from Geir Laastad in Norway.

OM Karel Honzk is looking for informations about VRX-Hongkong Radio. Anyone who can help him with informations is kindly encouraged to send it to his e-mail address: karel.honzik@vol.cz Many thanks for your help.

Can anyone confirm, that I've been hearing San Francisco Aero on 8867 kHz??(ibG)

Please note my new email address: ianbaxter@lineone.net

11117.360 is interesting. It idles away for hours and sends no traffic. Any ideas? Maybe bnd? (ewAU)

OM Dmitri (dmRU) asks, if anybody has an info about the c/s RJP90??? Anyone???

NDB Southend on Sea/SND: London Southend Airport Co. Ltd., Southend Airport, Southend-on-Sea, Essex SS2 6YF (mo76)

NDB Eastleigh/EAS: Southampton International Airport Ltd., Southampton, Hampshire SO18 2NL (mo76)

NDB Rochester/RCH: GEC-Marconi Avionics Ltd., Airport Works, Rochester, Kent ME1 2XX (mo76)

NDB Luton/LUT: London Luton Airport, Percival House, Percival Way, Luton, Bedfordshire LU2 9LY (mo76)

NDB London-City/LCY: London City Airport, Royal Docks, London, E16 2PX (mo76)

NDB Coventry/CT: Coventry Airport, Baginton, Coventry CV8 3AZ (mo76)

NDB Birmingham/BHX: NATS, Old Terminal Building, Birmingham International Airport (Cargo), Birmingham B26 3QN (mo76)

NDB Niort/Souche/NS: A,rodrome de Niort, Avenue de Limoges, F-79000 Niort (mo76)

NDB Bourges/BRG: Service d'Information de vol, A,rodrome, Route d'Issoudun, F-18000 Bourges (mo76)

NDB Jerez/JRZ: AENA, Apartado de Correos 579, E-11401 Jerez de la Frontera - C diz (mo76)

NDB Madrid-Getafe/GE + NDB Villanueva/VNV: A.E.N.A., Direccion Regional de Navegacion Aerea, Region Centro, Senora Elena Turrado Porras, Ingeniero Tecnico Aeronautico, Dpto. Apoyo Tecnico, Centro de Control de Transito Aereo, Ap. 197, E-28850 Torrejon de Ardoz - Madrid, Spain (rk50)

NDB Albacete/ABT: Escuadrilla de Telecomunicaciones, Base Aerea de Los Llanos, Crt. de Murcia s/n, E-02071 Albacete, Spain (rk50)

NDB Zaragoza/ZZA: Navegacion Aerea, Senor Carlos Duque Vidarte, Mantenimiento, Aeropuerto de Zaragoza, E-50011 Zaragoza, Spain (Has own QSL-card!!!) (rk50)

NDB Sherburn-in-Elmet/SBL: Sherburn Aero Club Ltd., Lennerton Lane, Sherburn-in-Elmet, Nr. Leeds LS25 6JE, England (rk50)

NDBs Cartwright/CA + Hopedale/HO + Rigolet/JC: Nav Canada, Technical Services, P.O.Box 250, Station 'C', Goose Bay Airport AOP 1C0, Canada (tnx to mo76!!!) (rk50)

Ny Capetown/ZSJ: NAVCOMCEN, Silvermine, attn. Communications Office, Private Bag X1, Simonstown 7995 (v/s S.J.Jacobs)(pt53)

Veracruz R./XFU: Telecomunicaciones de Mexico, Eje Central Lazaro Cardenas, No 567 Col. Navarte, C.P. 03020, Mexico DF (lrG)

Cerrito R./CWA (more detailed address than in Spezial-Frequenzliste):

Dr. Daniel Fernandez Crespo 1534 P. 5 Sector 9, Montevideo, Uruguay.

V/s is Ing. Hector Sperduto Melillo, Gerente de Area, Mantenimiento de Transmision (dmRU)

Penang R./9MG: Telekom Malaysia, Radiomaritime Communications Centre, International Network Operations, Kuala Muda, 13110 Penaga, Seberang Perai, Malaysia (gsLX)

Bern R./HEB: Bern Radio, Riedernstrasse 146, CH-3027 Bern (gsLX)

MRSC Ancona/ICI07: Capitaneria di Porto, Banchina Navazio Sauro, I-60121 Ancona (gsLX)

MARS Republic/NNN0UTO: Sean C.Malone, 961 Knob-Hill, Trout CT.Rd., Republic, WA

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99166-9711 (gsLX)

Toisa Puffin/C6KA8: Sealion Shipping Ltd., Sealion House, The Courtyard, 17 West Street, Farnham GU9 7DR (gsLX)

Maersk Polar/C6NB5: Murmansk Shipping Co., ul Kominterny 15, 183636 Murmansk, Russia (gsLX)

Evans Tide/GBKV+ Oil Transporter/MSPH9: Tidewater Marine North Sea Ltd., Souter Head Road, Altens Industrial Estate, Aberdeen AB12 3LF (gsLX)

Far Scotsman/GCHW: Farstad Shipping Ltd., Farstad House, Badentoy Avenue, Aberdeen AB1 4YB (gsLX)

St. Luke/GHNM: Vector Offshore Ltd., Harbour Buildings, South Quay, Ferryden, Montrose, Angus DD10 9SL (gsLX)

Corystes/GHRU: Ministry of Agriculture & Fisheries, Fisheries Laboratory, Pakefield Road, Lowestoft, Suffolk NR33 0HT (gsLX)

Grampian...: North Star Shipping Ltd., 207 Albert Quay, Aberdeen AB9 2FS, Scotland (gsLX)

Emilia/ICJE: Tirrenia Di Navigazione, Rione Sirignano 2, CP 142, I-80121 Napoli (gsLX)

Aberdonian/MLHC2: Nomis Shipping Ltd., 186 Albert Quay, Aberdeen AB1 2YA (gsLX)

USS Halyburton/NNN0CBR: FPO AE 09568-1495 (gsLX)

Veesea Zircon/ZHFW7: Vector Offshore Ltd., Vector House, Marine Base, South Denes Road, Great Yarmouth NR30 3QQ (gsLX)

Viking Boy/C6006: Eidesvik & Co. A/S, N-5442 Bomlo, Norway (gsLX)

Thanks to our famous (12) contributors: gsLX, a1EU, abNL, pt53 (your mar-logs will be in EUNL 12-98), aiE (=ai47 in Spain), lrG, pcG, mo76/moF35, rk50, ibG, ewAU (Australia), nr76/nrTR/nrSP (is nr76 during a special mission in Trebinje and Split)

gd dx + 73`s; until next month

Andreas

EUROPEAN UTILITY NEWSLETTER 12-98

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*****
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*
*                               Deadline: 20th of the month!!!          *
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Hi gentlemen,

We're closing EUNL year 1998 with this issue and I hope you had as much fun as I had. Think we're a nice gang and I hope you continue your famous work and support our journal with logs and infos during the next year. I wish you all a very peaceful and nice X-mas. Take care!

N D B

245	2139	NG	Nizhny Novgorod/Strigino	RUS id (4 x 2=1 min)	dmRU
268	1614	F	UNID	RUS? id (4 x 5=1 min), local	dmRU
296	2337	KN	Skrova Lt.	NOR 3 x id + tone	ti24
300	2338	LA	Lista Fyr Lt.	NOR 4 x id + 17 sec tone	ti24
300	0523	KD	Praha/Ruzyne	CZE id	hb01
307	0524	PG	Praha	CZE id	hb01
309	0524	MW	Berlin-Blankenflede	D id	hb01
309,5	0120	OD	Odesskij	UKR id + tone	hb01
312	2344	KA	Kornik	POL id + tone	ti24

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315	0022	LV	Lviv	UKR	id	hb01
316	1400	IN	Sonderborg	DNK	id	jnDK
316	0538	OKG	Unid	CZE	id	hb01
319	0539	GL	Unid (Tege1 321.5?-d)	?	id	hb01
319	0127	C	Prerov	SVK	id	hb01
321	0752	SP	Skydstrup	DNK	id	ti24
324	0930	ML	Tirstrup	DNK	id	jnDK
330	0753	SB	Sonderborg	DNK	id	ti24
330	0130	HR	UNION OIL Heather	IW	id	hb01
341	2311	LO	Billund	DNK	id	ti24
344	0133	HEK	Hekka	FNL	id	hb01
345	0135	CF	Podhorany	CZE	id	hb01
351	0930	KP	Karup	DNK	id	jnDK
351	0136	OV	Visby	S	id	hb01
353	0137	KRW	Krakow/Balice	POL	id	hb01
356,5	0140	SHU	Schupberg	SUI	id	hb01
357	0930	KD	Vamdrup	DNK	id (your unid Thomas, ed)	jnDK
357	0141	FAL	Falconara	I	id	hb01
358	0142	TUN	Tulln	AUT	id	hb01
361	0144	LIE	Lieto	FIN	id	hb01
367,5	0147	PNZ	Ponza	I	id	hb01
369	0930	KA	Karup	DNK	id	jnDK
375	0553	TRZ	Lubin	POL	id	hb01
380	0756	FLB	Flensburg	D	id	ti24
382	0148	SBG	Salzburg	AUT	id	hb01
392	0607	RW	Berlin-Tege1	D	id	hb01
395	0930	GE	Billund	DNK	id	jnDK
400	0607	RA	Unid	?	id	hb01
400,5	0930	EJ	Esbjerg	DNK	id	jnDK
402	2117	ER	Unid	?	id	hb01
404	0608	HOZ	Holtsdorf	D	tone,id,tone	hb01
407	0612	NE	Unid	?	id	hb01
408	0615	AEU	Unid	?	tone,dot,id,tone	hb01
409	2114	SG	Satenas	S	id	hb01
409	0617	CZE	Czempin	POL	id	hb01
412	0619	FS	Sliac	SVK	id	hb01
413	2109	BOA	Bologna	I	id	hb01
413,5	2113	DLS	Berlin Lübars	D	id	hb01
414	2110	SLB	Oslo-Solberg	NOR	id	hb01
417	2105	AH	Aengelholm	S	id	hb01
418	2100	ORA	Oradea	BUL	id	hb01
419	2058	WEW	Unid	?	id	hb01
420	2104	INN	Innsbruck	AUT	id	hb01
420	2055	SS	Malmö-Sturup	S	id	hb01
420	0624	UR	Unid	?	id	hb01
425	0626	ERT	Erfurt	?	id	hb01
426	2052	GBG	Gleichberg	AUT	id	hb01
427	0627	D	Ivano-Frankovsk	UKR	id	hb01
430	0630	PK	Chrudim	CZE	id	hb01
432	0630	RO	Goerlitz-Rothenburg	D	id	hb01
434	0632	SK	Leipzig	D	id	hb01
439	2042	OKL	Unid	?	id	hb01
440	2046	TRG	Targivishte	BUL	id	hb01
441	0635	CK	Unid	?	id	hb01
443	2038	test	Unid	?	test in CW	hb01
448	2034	TUS	Unid	?	dot,dot,id,tone	hb01
449	2030	OKX	Frydland	CZE	id	hb01
468	2025	FTZ	Fritzlar	D	id+tone	hb01
473	2022	UZ	Unid	?	id+tone	hb01
473	2015	RZE	Rzeszov	POL	id	hb01
473	2018	FHA	Friedrichshafen	D	id	hb01
475	2011	RP	Unid	?	id	hb01
490	2002	WAK	Vakarel	BUL	id	hb01
525	0640	HG	wroclaw-Strachow	POL	id	hb01
559	1437	FG	UNID	RUS?	id (4 x 2=1 min), local	dmRU
588	1920	FF	UNID	?	id (4 x 2=1 min)	dmRU
654	1938	AK	Akmo1a	KAZ	id (4 x 2=1 min)	dmRU
730	1503	PO	Pretoriya	RUS	id (4 x 2=1 min)	dmRU

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778	2002	GR	Krasnograd	UKR	id		dmRU
1010	2113	PT	Besovets/Petrozavodsk	RUS	id (4 x 2=1 min)		dmRU
1020	2032	DK	Glodayevo	RUS	id (4 x 2=1 min)		dmRU

## F I X E D

2211,5	0223	FDE14	AF Contrexeville	F	cw-vvv		ti24
2680	0228	4XZ	Ny Haifa	ISR	cw-vvv		ti24
2720,5	1910	FDE14	AF Contrexeville	F	cw-vvv		pt53
2961	1700	M26	Unid	?	cw//4106k`99 10654`,+5FGs		abNL
3314	0234	HEP3	INTERPOL Zurich	SUI	cw-vvv		ti24
3322	2223		Ny Ustinov	RUS	channelmarker 'R'		ti24
3339	2041		Ny St.Petersburg	RUS	channelmarker 'L'		ti24
3640	2315		Mossad	ISR	AM MIW2		abNL
3651	2257		Russian Air Defense	RUS	CW BT?? etc		abNL
3768,2	0242	FDC	AF Metz	F	cw-vvv		ti24
3909	1922		unid	?	cw cont. 70699		ti24
4035	2139		M51	F	cw 5LG`s		abNL
4106	1650	M26	Unid	?	cw`99 10704` At 1700 `99` for 3		
mins, then resumes the `99 10704` routine. Changed msg at 1900 to `99 10528`							
4270	2300		Mossad	ISR	AM PCD + 5LGs		abNL
4360	2245		Mossad	ISR	AM SYN2		abNL
4460	2300		Mossad	ISR	AM FTJ + 5LGs		abNL
4488	2202	ND8X	Unid	?	cw clg 30NS couple of mins		abNL
4518	2059	FDI22	AF Narbonne	F	cw id-vvv		ti24
4620	2145		English Man	RUS	AM Tests at 2145-2150 E/RUS		abNL
4625	2159		Buzzer	RUS	Bursts change to `siren` (no		
stops between the bursts between 21.59m30s and 22.00 UTC							
4666	2315		Unid	?	cw `VVVV`???? K`HHHH VVVV`		abNL
4783	2114		unid RUS mil.	RUS	cw msgs 5ng 0 = T		ti24
4880	2300		Mossad	ISR	AM ULX + 5LGs		abNL
5036,7	2309		MFA Cairo EGY SITOR-A	100	Msg to Doha		abNL
5141,5	2304		Russian Air Defense	RUS	cw BT99T3T3?8?????		abNL
5154	2048	RMP	RUSNy Kaliningrad	KAL	cw channelmarker `P`		ti24
5170	2245		Mossad	ISR	AM CIO2		abNL
5342	2051	FDY	AF Orleans	F	cw-vvv	dmRU+pcG+	ti24
5446,5	0257	FDC	AF Metz	F	cw-vvv	dmRU+pcG+	ti24
5732	2134		Spy-network B13 (BND)	D	USB GOLF KILO,740 87 grp		ti24
5746	1814		Spy-network LP02 (MI5)	CYP	USB msg 5ng,=6959\9251		ti24
5770	2101		Spy-network B14 (BND)	D	USB GOLF KILO, 740 87 grp		ti24
6370	1649		Spy-network X43 MOSSAD	ISR	AM wkg SYN-2	dmRU+	ti24
6382	2331	TBA6	Ny Aankara	TUR	cw-vvv TBJ de TBA6		abNL
6507	1003		Spy-network o09 (unid)	?	USB CIA-voice, 5ng 2x		ti24
6745	2016		Spy-network X47 MOSSAD	ISR	AM cont. KPA2		ti24
6786	0716		unid, tactical	?	cw msg 5lg		ti24
6796	0537		Spy-network IL03 (unid)	?	AM msg 5ng, grp 1x, YL		ti24
6844,5	1818	FDC	AF Metz	F	cw-vvv		ti24
6871	2126	HEP7	INTERPOL Zurich	SUI	cw-vvv		ti24
6875	0317	FDI22	AF Narbonne	F	cw-vvv		ti24
6959	2009		Spy-network LP04 (MI5)	CYP	USB 15041 = 9251, 11545		ti24
6966	1928	YMB20	Bandirma Meteo	TUR	cw-TT/EE wx for Black Sea		dmRU
7039	2128		Ny Arkhangelsk	RUS	cw channelmarker `S`		ti24
7039	2129	RMP	RUSNy Kaliningrad	KAL	cw channelmarker `P`		ti24
7039	2130	RCV	Ny Moscow	RUS	cw channelmarker `C`		ti24
7335,5	2020	FDC	AF Metz	F	cw-vvv	dmRU+	ti24
7337	2004		Spy-network LP05 (MI5)	CYP	USB 73233 = 9251\12603		ti24
7532	2001		Spy network B18 (BND)	D	USB GOLF KILO,740,87 grp		ti24
7618	2134		unid, tactical?	?	cw-vvv, F1A-mode,no ID		ti24
7668	1946	8BY	France Intel.	F	cw-vvv		ti24+dmRU
7745	0725		unid, tactical, intel	?	cw msg, 5ng grps twice		ti24
7821	2018		unid timesignal	RUS	cw Format: 99?hhmm?9?????		ti24
7828	0013	FDI22	AF Narbonne	F	cw-vvv		ti24
7834,5	1159	FDC	AF Metz	F	cw-v mkr		ti24+pcG
7870	0733	LN2A	NTA Sveio IPS	NOR	cw + synch + data		ti24
7917	1251	FDE14	AF Contrexville	F	cw-vvv		ti47
8070	2043	FDI22	AF Narbonne	F	cw-vvv		ti24
8117	2141		unid, tactical?	?	cw msg 5ng, fast keyed		ti24
8127	1908		Spy network X61 MOSSAD	ISR	AM wkg cont. VLB2		ti24

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8464	1720		Spy-network LP08 (MI6)	CYP	USB wkg msg 5ng	ti24
8495	1928	RMP	RUSNy Kaliningrad	KAL	cw channelmarker 'P'	ti24
8495	2036	RCV	Ny Moscow	RUS	cw channelmarker 'C'	ti24
8567	2124		unid, tactical	?	cw wkg 501, =, into 5ng	ti24
9186	1939	HEP9	INTERPOL Zurich	SUI	cw-vvv	ti24
9251	2042		Spy-network LP09 (MI6)	CYP	USB wkg msg 5ng	ti24
10046	1943	4XZ	Ny Haifa	ISR	cw VVV DE 4XZ 4XZ	ti24
10248	1946	8BY	unid (F Intelligence,ed)	F	cw VVV 8BY....	ti24
10423	2007		Spy-network E45 (CIA)	USA	USB 895, count 205, 5ng	ti24
10426	2209		Spy-network LP10 (MI6)	CYP	USB wkg 26493, into 5ng	ti24
10470,5	1923	FDC	AF Metz	F	cw-vvv	ti24+pt53
10648	1809		Spy-network X71 MOSSAD	ISR	AM wkg msg 5lg	ti24
10872	2055	RCV	Ny Moscow	RUS	cw channelmarker 'C'	ti24
10872	2056		Ny Arkhangelsk	RUS	cw channelmarker 'S'	ti24
11155	1130	RIT	Ny Moscow	RUS	cw-de rit into Russian msg	ewAU
11317,5	1202		Unid	?	cw-UI333 Ui333 3ltr grps	ewAU
11491	1905		Spy-network E56 (CIA)	USA	USB msg for 200, count74	ti24
11545	2209		Spy-network LP11 (MI6)	CYP	USB wkg 26493, into 5ng	ti24
12075	0752	8BY	unid (F Intelligence,ed)	F	cw-vvv 8BY 8BY 8BY	ti24
12137	1435		Fapsi Moscow	RUS	rtty 75 to RAD on link70037abNL	abNL
12137	1530		Fapsi Moscow	RUS	rtty 75 to RAD on link70037abNL	abNL
12160	1745		Spy-network EM11 (unid)	?	AM wkg msg 5ng	ti24
12180	1915		English Man	RUS	AM 607+5FG ends with 00000	abNL
12194	1410		Fapsi Moscow	RUS	rtty 75 to KUL on link00142abNL	abNL
13423	0900		Fapsi Moscow	RUS	rtty 75 to WQL on link80061abNL	abNL
13450	1909		Spy-network E60 (CIA)	USA	USB msg for 200 = 11491	ti24
13528	1912	RMP	RUSNy Kaliningrad	KAL	cw channelmarker 'P'	dmRU+ti24
13528	1913		Ny Akhrangelsk	RUS	cw channelmarker 'S'	dmRU+ti24
13528	1913		Ny Moscow	RUS	cw channelmarker 'C'	dmRU+ti24
13528	1118	C	Ny Moscow	RUS	cw-C	ewAU
13591	1125		Australia	AUS	usb Comm.-net.Mining Comp.	ewAU
13865	1110		Australia	AUS	usb Comm.-net.Mining Comp.	ewAU
13907,2	1107	F	Ny Vladivostok	RUS	cw-F	ewAU
14000	1403		Spy-network NA07 (unid)	?	USB FYP QRU	ti24
14380	1248		Spy-network EM12 (unid)	?	cw wkg msg 5ng,OM grps 2x	ti24
14402	1210		Fapsi Moscow	RUS	rtty 75 on link 00104	abNL
14487	1004		Spy-network LP15 (MI5)	CYP	USB msg 5ng,= 15682	ti24
14739	1312		Spy-network E63 (CIA)	USA	USB msg 5ng	ti24
16332	1924	RMP	RUSNy Kaliningrad	KAL	cw channelmarker 'P'	ti24
16332	1925		Ny Arkhangelsk	RUS	cw channelmarker 'S'	ti24
16332	1925	RCV	Ny Moscow	RUS	cw channelmarker 'C'	ti24
20380,5	1950	3W	unid, tactical net	?	cw wkg HS, L5, svc-tfc	ti24
20946	0900	8BY	UNID (see 7668k, ed)	?	cw-usual v mkr	pcG

M A R I T I M E

1764	2234	GKR	Wick R.	G	USB,E,nav. warning	pt53
1792	1941	7TA	Algiers R.	ALG	USB,F,wkg Vessel	pt53
1883	2206	GPK	Portpatrick R.	G	USB,E,nav. warning	pt53
1888	1947	IAR	Rome R.	I	USB,I,wx	pt53
1925	2210	ICB	Genova R.	I	USB,E,/I,nav. warning	pt53
1930	2157	LFI	Rogaland R.	NOR	cw-SITOR-id	ti24
2182	2233	OSU	Oostende R.	BEL	USB,E,/N1, QSY 2761	pt53
2182	1733	OXZ	Lynby R.	DNK	USB,E,QSY 1734, 1704, 1758	pt53
2182	2003		Cabo de Gata R.	E	USB,E/S,QSY 1767	pt53
2182	1934	EAL	Tarifa R.	E	USB,E/S,QSY 1704	pt53
2182	2034	EAO	Palma R.	E	USB,E/S,QSY 1755	pt53
2182	1834	FFB	Bologne-sur-Mer R.	F	USB,F,QSY	pt53
2182	1908	FFM	Marseille R.	F	USB,F,QSY	pt53
2182	2003	FFU	Brest-le-Conquet R.	F	USB,F,QSY	pt53
2182	2204		Cross Corsen	F	USB,F,QSY	pt53
2182	1906		Cross Med	F	USB,F,QSY	pt53
2182	1934	OFK	Turku R.	FNL	USB,E,QSY	pt53
2182	2021		Aberdeen CG	G	USB,E,QSY 2226	pt53
2182	2234	GKR	Wick R.	G	USB,E,QSY 1764	pt53
2182	1736	GKZ	Humber R.	G	USB,E,QSY 1869	pt53
2182	2205	GPK	Portpatrick R.	G	USB,E,QSY 1883	pt53
2182	2153	PBK	Netherlands CG	HOL	USB,E,ID,QSY 3673	pt53



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2182	1947	IAR	Rome R.	I	USB,E/I,QSY 1888	pt53
2182	1949	ICB	Genova R.	I	USB,E/I,QSY 2642, 1925	pt53
2182	2207	IDC	Cagliari R.	I	USB,E/I QSY	pt53
2182	1959	IPP	Palermo R.	I	USB,E/I,QSY	pt53
2182	1740	IQX	Trieste R.	I	USB,E/I,QSY 1865,2624,2656	pt53
2182	2033	EJM	Malin Head R.	IRL	USB,E,QSY 1677	pt53
2182	1704	SVAP	vessel	IW	USB,E,clg Kerkyra R.	pt53
2182	2303	LFO	Orlandet R.	NOR	USB,E/Norw.,QSY 2635	pt53
2182	0503	LGQ	Rogaland R.	NOR	USB,E/norw.,QSY 1692	pt53
2182	1733	LGZ	Farsund R.	NOR	USB,E/norw.,tfc-list	pt53
2182	2133	SPH	Gdynia R.	POL	USB,E/Poln.,ID,QSY 1692	pt53
2182	2005	SPN	Witowo R.	POL	USB,E/Poln.,no tfc	pt53
2182	1933	YQI	Constanta R.	ROU	USB,E,ID by YL,QSY 2748	pt53
2182	1935	SDJ	Stockholm R.	S	USB,E,QSY	pt53
2198	2024		unid vessel	IW	USB wkg pp to shore	ti24
2226	2022		Aberdeen CG	G	USB,E,wx forecast	pt53
2331	2010		Dutch civil ships	IW	USB smalltalk, costages	ti24
2357,5	2012	OUA	Ny Aarhus	DNK	cw-vvv for bcst D23	ti24
2624	1956	IQX	Trieste R.	I	USB,I,wx,ID	pt53
2625	2031	DRAR	FGS Niedersachsen	IW	USB wkg DHJ59,msgs,qs1	ti24
2625	2057	DRAX	FGS Gorch Fock	IW	USB clg DHJ59, rdock	ti47
2635	2304	LFO	Orlandet R.	NOR	USB,E,/norw.,fv,nav. warn.	pt53
2642	1951	ICB	Genova R.	I	USB,I,wx	pt53
2643,5	2020	SPS	Witowo R.	POL	cw-sitor-id	ti24
2730	2135	SVL	Limnos R.	GRC	USB,Gr/E,nav. warnings	pt53
2748	1935	YQI	Constanta R.	ROU	USB,E,fv,wx	pt53
2761	2305	OSU	Oostende R.	BEL	USB,E/Dutch, Pan Pan	pt53
2799	2137	SVH	Iraklion R.	GRC	USB,Gr/E,nav. warn.	pt53
3615,7	2043	GKY1	Portishead R.	G	cw-sitor-id	ti24
3712	2236	SXA33	Ny Spata Attikis	GRC	cw-vvv	ti24
4154,3	0705	DRAN	FGS Niedersachsen	IW	USB wkg DHJ59, svc-chat	ti24
4154,3	2050	DRAX	FGS Gorch Fock	IW	USB wkg DHJ59, probl,	ti47
4154,3	2123	DHJ59	Ny wilhelmshaven	D	USB wkg DRAX, msgs, qs1	ti24
4154,3	2142	DRKH	FGS MEERSBURG	IW	USB clg DHJ59, opchat	ti24
4240,5	1223	XSG	Shanghai R.	CHN	cw Channel Marker	ewAU
4241,5	2052	LGW	Rogaland R.	NOR	cw-cq	ti24
4260	1845	TBA	Ny Ankara	TUR	cw-vvv for BCST T13A	ti24
4262	1846	LFI	Rogaland R.	NOR	cw-SITOR-id	ti24
4273,5	2054	SAA	Karlskrona R.	S	cw-cq	ti24
4294	2248	SXA34	Ny Spata Attikis	GRC	cw-vvv	ti24
4325,5	1849		Ny Ustinov	RUS	cw channelmarker 'R'	ti24
4328	1905	JOS	Nagasaki R.	J	cw-cq	dmRU
4331	1850	4XZ	Ny Haifa	ISR	cw-id vvv de 4XZ	ti24
4350	1900	TBB	Ny Ankara	TUR	cw-vvv	ti24+dmRU
6212	1722		MV Dniepr	IW?	usb-wkg Izmail	dmRU
6253,5	1925		UNID net	I?	usb-EE/II tfc,Augusta ment.	dmRU
6322	2059	OST	Oostende R.	BEL	sitor + cw-id	dmRU
6322,5	2101	VRX	Cape d'Aguilar R.	CHN	sitor + cw-id	dmRU
6330,5	2103	8PO	Barbados R.	BRB	sitor + cw-id	dmRU
6357	1853	SAA	Karlskrona R.	S	cw-cq, nil tfc	ti24+dmRU
6379	2057	4XZ	Ny Haifa	ISR	cw-vvv de 4XZ 4XZ - -	ti24
6382	1952	TBA6	Ny Ankara	TUR	cw-id vvv	ti24
6389	2037	AQP	Ny Karachi	PAK	cw-vvv	dmRU
6400	1835	UON	Baku R.	AZE	cw-wkg 4JHA (handkeyed)	pcG+dmRU
6418	1828	VTP	Ny Vishakapatnam	IND	cw-vvv, bad tone	dmRU
6451	1823	HLG	Seoul R.	KOR	cw-tfc list until 1825	dmRU
6467	1954	LFI	Rogaland R.	NOR	cw-SITOR-id	ti24
6470	1821	SXA24	Ny Spata Attikis	GRC	cw-vvv	ti24+dmRU
6490	1930	UJE	Nizhni Novgorod R.	RUS	cw-vvv cq, // 3670	dmRU
6507	0315	TBB6	Ny Ankara	TUR	cw-id vvv	ti24
8335,3	1847	DRAX	FGS GORCH FOCK	IW	USB wkg DHJ59, msgs qs1	ti47
8335,3	2114	DHJ59	Ny wilhelmshaven	D	USB wkg unid vessel,svc	ti24
8335,3	2115	DRKH	FGS Meersburg	IW	USB clg DHJ59,rq,sport info	ti24
8335,3	2116	DRAF	FGS Moelders	IW	USB clg DHJ59,rdock,zbo	ti24
8389	0505	RIW28	RUS Ny Khiva	UZB	cw-cq (handkeyed)	dmRU
8419	1655	VIP	Perth R.	AUS	SITOR/A tlx/cw mkr	pcG
8420	1705	KHF	Guam R. GLOBE	GUM	SITOR/a tlx/cw mkr	pcG
8421	1655	A7D	Doha R.	QAT	cw-id + sitor	zeTC

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8421,5	1656	VRX	Hongkong R.	CHN cw-id + sitor	zeTC
8423,5	1600	3AC	M.Carlo R.	MCO SITOR/A tlx/cw mkr..no tfc!	pcG
8437	2143	4XZ	Ny Haifa	ISR cw-vvv de 4XZ	ti24
8448	2047	A9M	Bahrain R.	UAE cw Ch. Marker	hb01+ti24+ewAU
8473,5	1710	A7D	Doha R.	QAT cw-de mkr	ti24+pcG
8495	2148	RCV	Ny Moscow	RUS cw-channelmarker 'c'	ti24
8515	2103	5AT	Tripoli R.	LBY cw Ch. marker	hb01+ti24+ewAU
8541	2114	A9M	Bahrain R.	UAE cw/Sitor Channel Marker	ewAU
8551,5	2152	CTP	NATO Oeiras	POR cw-vvv	ti24
8565	2127	D3E51	Luanda R.	ANG cw Channel Marker	ewAU
8571	2042	JNA	Tokyo Coast Guard	J cw-cq	ti24
8573	0910	CLA	Havana R.	CUB cw-cq mkr	ti24+pcG
8589	1130	HPP	Panama R.	PNR cw Channel Marker	ewAU
8600	2157	XSV	Tianjing R.	CHN cw-cq de XSV	ti24
8604,3	1135	DZJ	Manila R.	PHL cw Channel Marker	ewAU
8622	0748	PCH41	Scheveningen R.	HOL cw-de	dmRU
8624	2159	XSQ	Guangzhou R.	CHN cw-cq de XSQ	ti24
8624	1954	5BA	Nicosia R.	CYP cw-	hb01
8645	2133	LPD68	General Pacheco R.	ARG cw-vvv	ti24
8658	1921	ASK	Karachi R.	PAK cw-de	dmRU
8665	2045	XSG	Shanghai R.	CHN cw-cq de XSG	dmRU+hb01+ti24
8670	2216	IAR	Roma R.	I cw-vvv	hb01+ti24
8682	2218	EAD	Madrid R.	E cw-de EAD QSX	hb01+ti24
8682	2328	J2A8	Djibouti R.	DJI cw Channel Marker	ewAU
8685	2219	IRM	Roma Medico R.	I cw-vvv	hb01+ti24
8686	1919	CNP	Casablanca R.	MRC cw-cq	dmRU
8698	1935	7TF	Boufarik R.	ALG cw-cq de 7TF QSX	hb01+ti24
8700	1914	9AR	Rijeka R.	HRV cw-vvv	hb01+dmRU
8706	2048	JOS	Nagasaki R.	J cw-cq very fast	ti24
8737	2309	5BA42	Cyprus R.	CYP USB Voice mirror	abNL
8749	1208	WOO	Ocean Gate R.	USA usb Traffic List	ewAU
10192,5	1750	DRHH	FGS Oste	IW USB wkg DHJ59, msgs	ti24
10192,5	1755	DREX	FGS Dillingen	IW USB clg DHJ59, rdock, zbo	ti24
10722	1008	DRAF	FGS Moelders	IW USB wkg DHJ59, msgs, qsl	ti24
11801	1138	TAH	Istanbul R.	TUR cw Channel Marker	ewAU
12581	2314	LSD836	Argentina R.	ARG cw-SITOR-id	ti24
12581,5	2038	WLO	Mobile R.	USA cw-SITOR-id	ti24
12583,5	2315	CBV	Playa Ancha Zonal R.	CHL cw-SITOR-id	ti24
12594	2316	PPR	Rio de Janeiro R.	B cw-SITOR-id	ti24
12597,5	2318	UFN	Novorossiisk R.	RUS cw-SITOR-id	ti24
12610	2042	VCT	Tors Cove R.	CAN cw-SITOR-id	ti24
12610,5	1333	UCT	Batumi R.	GEO cw/FEC(no see log above,ed)	hb01
12634,5	0523	TAH	Istanbul R.	TUR sitor + cw-id	dmRU
12647	2323	LPD	General Pacheco R.	ARG cw-SITOR-id	ti24
12676,5	1155	A4M	Muscat R.	OMA cw Channel Marker	ewAU
12678	2020	LFI	Rogaland R.	NOR cw-Sitor-id	ti24
12678	1417	9MG	Penang R.	MLA cw-	hb01
12687	1640	OFJ	Helsinki R.	FIN cw-OFJ	hb01+dmRU
12709	1140	A9M	Bahrain R.	BHR cw Channel Marker	hb01+ewAU
12714	0940	UCE	Arkhangelsk R.	RUS SITOR/A traffic	pcG
12735	2022	URL	Sevastopol R.	UKR cw-cq de URL URL	pcG+hb01+ti24
12738,5	2024	PPR	Rio de Janeiro R.	B cw-vvv de PPR PPR	hb01+ti24
12750	2328	CWA	Cerrito R.	URG cw-cq	ti24
12780	2026	D3E61	Luanda R.	AGL cw-cq de D3E61	hb01+ti24
12780,5	1841	9AR	Rijeka R.	HRV cw-vvv	dmRU
12799,5	0750	PCH51	Scheveningen R.	HOL cw-de	hb01+dmRU
12808	2053	VTG	Ny Bombay	IND cw-vvv	ti24
12835,4	1003	GKB	Portishead R.	G cw-wx for North Atlan.	hb01+dmRU
12843	1835	HLO	Seoul R.	KOR cw-cq	ti24
12849	1836	ZSJ	Ny Capetown	AFS cw-cq	ti24
12856	2030	XSG	Shanghai R.	CHN cw-cq for tfc-list	ti24
12923	1838	HLW2	Seoul R.	KOR cw-cq	ti24
12952,5	0914	VIP	Perth R.	AUS cw-cq mkr	ti24+pcG
12969	2038	XSV	Tianjin R.	CHN cw-cq de XSV UP 443	pcG+ti24
12984	2045	4XZ	Ny Haifa	ISR cw-vvv de 4XZ 4XZ	hb01+ti24
12988,5	0925	LPD88	Gr1 Pacheco R.	ARG cw-v mkr	ti24+pcG
13011	2047	AQP	Ny Karachi	PAK cw-vvv	ti24
13024,5	1847	ASK	Karachi R.	PAK cw-de ASK	ti24

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13062	2115	CLA	Habana R.	CUB cw-cq de CLA CLA	ti24
13069,5	2051	JOS	Nagasaki R.	J cw-cq	ti24
13076,5	2052	JNA	Tokyo Coastguard	J cw-cq	ti24
13077	1451	EHY	Madrid R.	E USB,S,wkg vessel	pt53
13161	1830	HLS	Seoul R.	KOR usb,melody maker	zeTC
16811	2143	CBV	Playa Ancha Zonal R	CHL cw-SITOR-id	ti24
16813	1015	UAT	Moscow R.	RUS cw-SITOR-id	hb01+ti24
16819,5	1641	NMN	USCG Chesapeake,VA	USA cw-SITOR-id	ti24
16821	1348	VRX	Hongkong R.	CHN cw-SITOR-id	ti24
16824,5	1018	UFL	Vladivostock R.	RUS cw-SITOR-id	ti24
16829	1020	USU	Mariupol R.	UKR cw-SITOR-id	hb01+ti24
16841,5	1023	8PO	Barbados R.	BRB cw-SITOR-id	ti24
16880	1352	XSQ	Guangzhou R.	CHN cw-SITOR-id	ti24
16911,2	1653	JNA	Tokyo Coast Guard	J cw-cq	ti24
16912	1554	SUH5	Alexandria R.	EGY cw-	hb01
16926	2045	VTP	Ny Vishakhapatnam	IND cw Channel Marker	ewAU
16935	1044	A7D	Doha R.	QAT cw-	hb01
16938	1354	VTG	Ny Bombay	IND cw-vvv	ti24
16940	1028	XSW	Kaohsiung R.	TWN cw-cq	ti24
16976	1929	LSD836	Argentina R.	ARG cw-SITOR-id	ti24
16984	1658	PPR	Rio de Janeiro R.	B cw-cq	ti24
16987	1032	VRX	Hongkong R.	CHN cw-cq	ti24
17017	1655	KPH	San Francisco R.	USA cw- (listed 17016.5, ed)	hb01
17029	1933	JMC6	Tokyo Meteo	J cw-AAXX for 47021	ti24
17045,5	1935	LPD46	General Pacheco R.	ARG cw-vvv	ti24
17050,4	1034	ASK	Karachi R.	PAK cw-de ASK QSX	pcG+hb01+ti24
17050,5	1936	4XZ	Ny Haifa	ISR cw-vvv	pcG+ti24
17075	1008	LGX	Rogaland R.	NOR cw-cq, gru	dmRU
17090	2312	UAI3	Nakhodka R.	RUS cw Channel Marker	ewAU
17103,2	1150	XSG	Shanghai R.	CHN cw-cq mkr	ti24+pcG
17147	1155	URL	Sevastopol R.	UKR cw-cq mkr	ti24+pcG
17184,8	1220	PKE	Amboina R.	INS cw cq mkr - weak	pcG
17184,8	1550	KFS	San Francisco R.	USA cw-cq mkr	pcg
17198,9	0752	PCH60	Scheveningen R.	HOL cw-de	dmRU
17204	1942	LF1	Rogaland R	NOR cw-SITOR-id	ti24
17223	1039	A4M	Muscat R.	OMA cw-de A4M	ti24
17227,6	1504	ZLO	Ny Auckland	NZL cw-de ZLO	zeTC
17230	2153	CWA	Cerrito R.	URG cw-cq	ti24
17239,7	1411	PKX	Jakarta R.	INS cw-cq	ti24
17242	1830	WOM	Miami High Seas R.	USA usb,E,OM-wx	zeTC
17332	1643	7TF46	Boufarik R.	ALG usb,A/E,r/t tfc,YL-id	zeTC
19696,5	1627	8PO	Barbados R.	BRB cw-SITOR-id	ti24
19698	1239	OST	Ostende R.	BEL cw/Sitor Channel Marker	ewAU
22377,5	1523	KFS	San Francisco R.	USA cw-id + sitor	zeTC
22379	1524	VIP	Perth R.	AUS cw-id + sitor	zeTC
22380,5	1525	CBV	Playa Ancha R.	CHL cw-id + sitor	zeTC
22382	0807	NRV	USCG Guam	GUM cw-id + sitor	zeTC
22383,5	1413	WLO	Mobile R.	USA cw-SITOR-id	zeTC+ti24
22389,5	1330	NMN	USCG Chesapeake, VA	USA cw-SITOR-id	pcG+zeTC+ti24
22395	1305	USU	Mariupol R.	UKR SITOR/A wkg uuly - msg	pcG
22407,5	1350	UAT	Moscow R.	RUS SITOR/A cw/tlx mkr	pcG
22461,4	1650	8PO	Barbados R.	BRB SITOR/A tlx/cw mkr	pcG
22603	1955	PPR	Rio de Janeiro R.	B cw-vvv de PPR PPR PPR,,	ti24
22628,5	1410	VTG9	Ny Bombay	IND cw-v mkr `vtg 4/6/7/9`	pcG

## A E R O (Ground - stations)

2941	2038		St. Petersburg Volmet	RUS USB wx,very weak signal	ti24
3413	0237		Shannon Volmet	IRL USB wkg wx for GATWICK	ti24
3485	2226		Gander Volmet	CAN USB wx for MONTREAL	ti24
4645	0528		Tallin Volmet	EST USB wx-data for Tallin	ti24
4742	0500	ARCHITECT	RAF Upavon	G USB forecast regional	ti24
5450	2052	MVU	RAF Upavon Volmet	G USB wx for LYNEHAM	ti24
5505	1942		Shannon Volmet	IRL USB wx for BERGEN	ti24
5598	1944		Aero Shanwick	IRL USB wkg 104, SELCAL	ti24
5714	1100	ARCHITECT	RAF Upavon	G USB wx regional forecast	ti24
6617	1958		Rostov Volmet	RUS USB wx for ANATA (???)	ti24
6617	2013		Moscow Volmet	RUS USB wx,very weak signal	ti24

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6727	0857	JWT	Ny Stavanger	NOR	USB clg unid, no resp.	ti24
6728	0859	DHN66	NATO Geilenkirchen	D	USB wkg MAGIC-67, RTTY	ti24
6730	0700	PRIMEROSE	AF Karup	DNK	USB wkg VICTOR-26, RTTY	ti24
6739	1100	ARCHITECT	RAF Upavon	G	USB wx regional forecast	ti24
6757	0500	MKL	RAF Pitreavie	G	CW wkg id, TAF-wx	ti24
8819	2221		Tashkent Volmet	UZB	USB wx, very weak signal	ti24
8825	2132		New York Aero	USA	usb clg Klm Flight	ewAU
8891	2051		Iceland Aero	ISL	USB wkg unid, SELCAL	ti24
8939	2052		Kiev Volmet	UKR	USB wx for ODESSA	ti24
8939	2055		Moscow Volmet	RUS	USB id, wx for MOSCOW	ti24
8957	2225		Shannon Volmet	IRL	USB end of data, ID	ti24
8986	0909	MKL	RAF Pitreavie	G	CW wkg TAF-wx for EGPH	ti24
8992	1018		USAF Bayonne, NJ	USA	USB string-msg, ZHMDAN	ti24
9031	1100	ARCHITECT	RAF Upavon	G	USB wx, regional forecast	ti24
10051	2123		Gander Volmet	CAN	USB wx for GANDER	ti24
11132	0100		Sydney Skycom	AUS	usb clg JAL772.Phone patch	ewAU
11205	1100	ARCHITECT	RAF Upavon	G	USB wx regional forecast	ti24
11211	1603	MKL	RAF Pitreavie	G	CW wkg TAF-wx for EGPH	ti24
11253	0707	MVU	RAF Upavon Volmet	G	USB wx for St.Mawgan	ti24
11297	0918		Moscow Volmet	RUS	USB wx for unid, ending	ti24
11297	0818		Moscow Meteo	RUS	usb-wx Sheremetievo, etc.	dmRU
11396	0936		Darwin Aero	AUS	usb Speedbird 10 clg Bali	ewAU

## A E R O (aircrafts)

6727	0923	MAGIC-68	NATO AWACS	AIR	USB wkg JWT, into RTTY	ti24
11175	1855	REACH8666	USAF Flight	AIR	USB wkg THULE, posrep	ti24

## D I G I T A L

147,3	1306	DDH47	Meteo Qiuckborn	D	RTTY 50 wkg id, CQ RY	ti24
2203	1802	MGJ	Ny Faslane	G	RTTY 75 wkg CARB	ti24
2474	2010	PBC	Ny Noordwijk	HOL	RTTY 75 wkg CARB	ti47
2510	2213		NATO ship-shore	?	RTTY 75 encrypted tfc	ti24
2608	1808	FUO	Ny Toulon	F	RTTY 75 wkg RY-SG-Test	ti24
2618	1936	GFE25	Bracknell Meteo	G	fax 120/576 wind forecast	zeTC
2651	2021		NATO ship-shore	?	RTTY 75 encrypted tfc	ti24
2789	2043	FUE	Ny Brest	F	RTTY	hb01
2815	1811	IDR	Ny Roma	I	RTTY 75 wkg CARB	ti24
2845	1812	PBB	Ny Den Helder	HOL	RTTY 75 wkg CARB	hb01+ti24
3451,5	2019	78	Army Dublin	IRL	SITOR-A wkg coded text	ti47
3550	2212		unid	?	ARQ-E 72 cont. idle	ti24
3764,4	1818	PBB	Ny Den Helder	HOL	RTTY 75 wkg CARB	pcG+ti24
3831	2033		unid	?	FECA-96 cont. idling	ti47
4012	1710	5ST	ASECNA Antananarivo	MDG	arqE3 48 bd call	pdCH
4152,5	1218		Unid	?	Unksys 300/325 Encrypted	ewAU
4227	1829	IGJ	Ny Augusta	I	RTTY 100 wkg CARB	ti24
4295	2201	FUE	Ny Brest	F	RTTY 75 wkg RY-SG, testing	ti47
4307	2058	GYA	Ny London	G	fax 120/576 windforecast	zeTC
4322	1831	MGJ	Ny Faslane	G	RTTY 75 wkg CARB	ti24
4336	1635	OLB	Meteo Praha	CZR	RTTY 50 wkg AAXX-reports	ti24
4570	2220	HZN46	Meteo Jeddah	ARS	RTTY 75 wkg TTAA-reports	ti24
4583	1347	DDK2	Meteo Quickborn	D	RTTY 50 wkg AAXX-reports	ti24
4601,5	1600	OA	Ny Dublin	IRL	SITOR/A long 5lt msg	pcG
4941	0746	FDI8	AF Nice	F	RTTY 50 VOYEZ LE BRICK, RY	ti47
4962	1837	SNN299	MFA warszawa	POL	POL-ARQ wkg op-chat, tlx	ti24
4972	0652		unid	?	ARQE-96 cont. idling	ti24
4972,4	1000	??	UNID German	D	ARQE/96/85 cont idle ex.MOI?	pcG
5038	1315	FDY	AF Orleans	F	ITA2/50/400 test/ry mkr	pcG
5148	1320	??	UNID FF	F	ARQE/72/400 idle	pcG
5236,2	1505	FDI8	AF Nice	F	ITA2/50/400 le brick+ryry	pcG
5255,5	1330	OA	Ny Dublin	IRL	SIT/A de oa int zbz for test	pcG
5279	2028	RFFXCFB	FF Thionville	F	ARQE-72 channelUFB,EXERCISE	ti24
5308	0945	FDY	AF Orleans	F	ITA2/50/400 le brick+ry test	pcG
5356	1944		unid,I have LYON listed	?	ARQ-E 72 cont. idle	ti24
5400	0758	YOG37	Meteo Bucuresti	ROU	RTTY 50 AAXX-reports	pcG+ti47
5478,5	1630	?	UNID	?	PICC/? s/ch idle	pcG
5752,5	1605	HBD20	MFA Berne	SUI	SITOR/A 5lt gps..long msg	pcG

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5857,5	2112	HLL8	Seoul Meteo	KOR	fax 120/576 surface analys.	zeTC
5933	1335	RFF---	UNID FF	F	ARQE/72/400 idle + `UHF` msgpcG	
6318,5	1623	OXZ	Lyngby R.	DNK	SITOR-A wkg PX football-resti	ti24
6340,5	2155	NMF	USCG Boston	USA	fax 120/576 meteo chart	pdCH
6348	0806	HWN	Ny Paris	F	RTTY 150 clg FAAA,RY-SGtestti	ti47
6483	0815	PBB	Ny Den Helder	HOL	RTTY 75 wkg CARB	ti47
6862,7	1910	RFFVAT	FF Incirlik	TUR	ARQE3/200/400 FKW4 to Paris	pcG
6875	0717		NATO ship shore	?	RTTY 75 encrypted tfc	ti24
6891	1920	FAPSI	Moscow	RUS	RTTY 75 mny msgs to RAD	abNL
6930	2336		Unid	?	ARQ-E 192 Idling for hours	abNL
7405	2336	AT?57	New Dehli Meteo	IND	fax 120/576 wind forecast	zeTC
7416	1652		unid	?	ARQE-72 cont. IDLE	ti24
7467,9	1025	OZU25	MFA Cobnhavn	DNK	T-PLEX msg for unid, tech.	ti24
7469,7	1248		DNK Emb Vilnius	LTU	T-PLEX msg for OZU25	ti24
7515	1715	ZRO	Pretoria Meteo	AFS	rtty 75 text + call	pdCH
7535	1401	AXI33	Darwin Meteo	AUS	fax 120/576 Indian Ocean	zeTC
7642,7	0825	RFFP	AF Paris	F	ARQM2-200 to Sarajevo	ti47
7670	1456	RCC76	Moscow Meteo	RUS	fax 120/576 tropopause anl.	zeTC
7677	1815	HBD63	SUI Emb London	G	SITOR-A end of traffic	ti47
7700	2155	ETD3	Addis .Ababa Aero	ETH	ITA2/50/850 `vta` cct msgs	pcG
7710	2216	VFF	CCG Iqaluit, NWT	CAN	fax 120/576 surface analys.	zeTC
7808	1401	DFZG	MFA Belgrade	YUG	RTTY 75 wkg id RY, =9057.0	ti24
7822	1956	RFFVA	FF Paris	F	ARQE3-200 wkg Routine-msg	ti47
7975	1831	SPW	Warszawa R.	POL	SITOR-B wkg Polish-press	ti47
8050	2040	RFQP	FF Djibouti	DJI	arqm2 200 call	pdCH
8083	0126	RIJ75	Tashkent Meteo	UZB	fax 60/576 polar stereogr.	zeTC
8086	1647	MKK	DCN London	G	VFT-50 jumping fox, RYI	ti24
8105	1906		unid	?	ARQE-184 cont. IDLE, no ID	ti24
8382	2015	9MBM8	Unid	IW	SITOR/A AMVER msg to ?	pcG
8397	1658	UMCS	unid vessel	IW	SITOR-A tlx for Arkhangelsk	ti24
8398	1706		MV UND DENIZCILIK	IW	SITOR-A wkg tlx for CSM	ti24
8404	2040	SQRL	m/v kop.borrynia	IW	SITOR/A Polish msg to ?	pcG
8427	0838	OXZ	Lyngby R.	DNK	SITOR-B wkg danish px	ti47
8434,5	1037	SAB837	Gothenborg R.	S	SITOR-B wkg tfc-list	ti24
8439	1040	PBC	Ny Noordwijk	HOL	RTTY 75 wkg CARB	ti24
8453	2027	FUG	Ny La Regine	F	RTTY 75 wkg RA-SG, ewAU+	ti47
8475,3	2057	FUX	Le Port R.	REU	Baudot 75/850 Testing Ry SgewAU	
8549	1727	UCE	Arkhangelsk R.	RUS	SITOR-A wkg UC00, tlx	ti24
8568	2045	FUV	FNy Djibouti	DJI	rtty 75 text + call	pbCH
8736	2306		Unid	?	SITOR-A 100 c QCXT mvHeito	abNL
9040	1857	5YE	Meteo Nairobi	KEN	RTTY 100 wkg AAXX-reports	ti47
9045	2055	5YE	Nairobi Meteo	KEN	fax 120/576 meteo chart	pdCH
9057	1402	DFZG	MFA Belgrade	YUG	RTTY 75 wkg id RY = 7808.0	ti24
9096	1325	FDY	AF Orleans	F	RTTY 50 VOYEZ LE BRICK, RY	ti47
9110	2021	NMF	USCG Boston	USA	fax 120/576 surface forec.	zeTC
9130	1859	MGJ	Ny Faslane	G	RTTY 75 wkg CARB	ti47
9150	1255	RCH73	Tashkent Meteo	UZB	fax 90/576 radar data	zeTC
9153	1605	SNN299	MFA Warszawa	POL	POL-ARQ idling	ti24
9257	1607	HGX21	MFA Budapest	HNG	DUP-ARQ wkg msg 5lg	ti24
9907,7	0709	RFFA	FF Paris	F	ARQM2-200 wkg msg 5lg	ti24
9970	1405	JMH3	Tokyo Meteo	J	fax 120/576 trop. cyclone	zeTC
9983,7	1804	RFFA	FF Paris	F	ARQE3-100 wkg msgs 5lg	ti24
10121	1040	SUU	Cairo Meteo	EGY	fax 120/576 meteochartzeTC+	pdCH
10215	1902	HZN48	Meteo Jeddah	ARS	RTTY 100 wkg AAXX-reports	ti47
10424	2012	YMA20	Meteo Ankara	TUR	RTTY 50 wkg TAF-wx	ti24
10542	1642	AOK	USNy Rota	E	fax 120/576 wind forecast	zeTC
10555	1905	AXI34	Darwin Meteo	AUS	fax 120/576 wx forecast	zeTC
10655	1730	MKK	DCN London	G	VFT 50 jumping fox, RYI	ti24
10701	1056		unid	?	FECA-192 wkg encr. tfc	ti24
10726,5	0702	P6Z	MFA Paris	F	FECA-192 wkg msgs, 5lg	ti24
10822	0718	DFZG	MFA Belgrade	YUG	FECA-144 encr tfc afterXTXT	ti24
10873,7	1810	RFVI	FNy Le Port	REU	ARQ-E3 100 cont. idle	ti24
10912	1630	SNN299	MFA Warszawa	POL	POL-ARQ cont. idle	ti24
10917,7	1908	RFTJ	FNy Dakar	SEN	ARQE3-48 msg 5lg,vy weak	ti47
10967	0708		MFA Bern or Embassy?	?	SITOR-A wkg msg 5lg	ti24
10973	0710		MFA Bern or Embassy?	?	SITOR-A msg 5lg not =10967	ti24
10973	1254	HBD20	MFA Bern	SUI	SITOR-A wkg msg 5lg	ti24
10991,7	1813	RFFVAY	FF Sarajevo	BIH	ARQM2-200 wkg cont. idle	ti24

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11025	1631		unid	? FEC-A 192 cont. idle	ti24
11030	1901	AXM34	Melbourne Meteo	AUS fax 120/576 wx forecast	zeTC
11072	1814		unid	? FEC-A 192 idle =1542 utc	ti24
11080	1632	YKP32	SANA Damscus	SYR RTTY	hb01
11082	0917		Russia	RUS 81/400 Cannot Decode.	ewAU
11085	1058	P6Z	MFA Paris	F FECA-192 cont. IDLE	ti24
11423,5	1416	SPW	Warszawa R.	POL SITOR-B wkg POL-nx, PAP-px	ti24
11453	1346	IMB33	Meteo Roma	I RTTY 50 wkg AAXX-reports	ti47
11471	0720	SNN299	MFA Warszawa	POL POL-ARQ wkg POL-nx	ti24
12090	1817	RFTJ	FF Dakar	F ARQ-E3 192 wkg cont. idle	ti24
12140	0723	HWN	FNy Paris	F RTTY 150 wkg RY-SG-Testing	ti24
12594	0929	IDR	Ny Roma	I RTTY 75 wkg CARB	ti47
12615	1427	USU	Mariupol R.	UKR SITOR-A wkg telex	ti47
12700	1431	UCE	Arkhangelsk R.	RUS RTTY 50 wkg tfc-list	ti47
12750	1925	NMF	USCG Boston	USA FAX	zeTC+hb01
12824	1435	GYU	Ny Gibraltar	GIB RTTY	hb01
12921,1	1304	MGJ	Ny Faslane	G RTTY 75 wkg CARB	ti24
13042	1332	FUV	FNy Djibouti	DJI rtty 75 FAAA de FUV	pdCH
13050	0730	UDK	Murmansk R.	RUS rtty 50 call + text	ti24+pdCH
13054	1437	UIW	Kaliningrad R.	KAL RTTY 50 wkg call-id	ti47
13399	1358	DFZG	MFA Belgrade	YUG RTTY 75 id-QTC-tape,tfclis	ti24
13401,7	1439		MFA Cairo	EGY SITOR-A msgs ATU-80 arabic	ti47
13467	1405	SNN299	MFA Warszawa	POL POL-ARQ tfc-list for DELHI	ti24
13479,7	1406	RFFP	FF Paris	F ARQM2-200 wkg flightsummary	ti24
13947	1931	ROM5	Tashkent Meteo	UZB fax 90/576 wx forecast	zeTC
13965	1410		unid	? SITOR-A endless 5lg	ti24
13976	1411	HBD20	MFA Bern	SUI SITOR-A id, RY into 5lg	ti24
13977,7	1317	RFFA	FF Paris	F ARQE3-200 cont. IDLE	ti24
14573	0937		JANA Tripoli	LBY RTTY 50 wkg px in AA	ti47
14575	1413	P6Z	MFA Paris	F FECA-192 wkg msgs 5lg	ti24
14585,6	1445	RFTPA	FF N'Djamena	TCF ARQE3/200/400 `FDZ` to ti24	+pcG
14669	1552		unid	? ARQE-184 cont. idle	ti24
14912	1415	DFZG	MFA Belgrade	YUG RTTY 75 encr.tfc = 13399.0	ti24
15633	0950	HMF26	KCNA Pyongyang	KRE RTTY 50 wkg id RY	ti47
15668	1419		unid	? ARQE3-200 cont. idling	ti24
15837	1449		unid	? RTTY 75 wkg msg 987 5lg	ti47
15946,5	1421	EAE220	MFA Madrid	E T-PLEX wkg msgs lettergrps	ti24
15961,7	0950	RFLI	FF Fort de France	MRT ARQE3-192 cont. IDLE	ti24
16125	1503	RFQP	FF Djibouti	DJI ARQM2-200 cont. idling	ti47
16193,2	1424	RFQP	FF Djibouti	DJI ARQM2-200 cont. idle	ti24
16922	1040	RBSL	Ny Bombay	IND RTTY	hb01
16971	0955	JJC	KYODO Tokyo	J fax 120/576 nx txt	zeTC
17018	0959	EBA	Ny Madrid	E RTTY 75 wkg Nav-wrngs	ti24
17020	1006	UDK2	Murmansk R.	RUS RTTY 50 msg for unid	ti24
17055,2	1009	MGJ	Ny Faslane	G RTTY 75 wkg CARB	ti24
17430	1500	9VF209	KYODO Singapore	SNG fax 120/576 nx txt//16035	zeTC
17620,2	1212	HZN	Jeddah Meteo	ARS Baudot 100/850 Meteo	ewAU
18261	1644	GFE24	Bracknell Meteo	G fax 120/288 pressure forec.	zeTC
18320,7	1740	RFTJ	FF Dakar	SEN arqE3 192contr.de voieti	ti24+pdCH
18441,2	0749	JMJ5	Tokyo Meteo	J fax 120/576 wind Pacific	zeTC
18503,7	1511	RFFA	FF Paris	F ARQE3-192 cont. idle	ti24
18525	0917		Unid	? Unksys 300/325 encry.	ewAU
18560	0925	BMF	Taipei Meteo	TWN Fax 120/576 wx SEAsia	zeTC+ewAU
18755,8	0930	JPA	Interpol Tokyo	J Sitor-A 100/170 Interpol	ewAU
19101,7	1513	RFLI	FF Fort de France	MRT ARQE3-192 cont. idle	ti24
19635	1237	P6Z	MFA Paris	F Fec-A 192/425 5ltr to A9C	ewAU
20617,1	1230		MFA Prague?	CZE Baudot 100 Telegr.unk Lang.	ewAU
20959,9	1426	SAM	MFA Stockholm	S SW-ARQ/100/400 long 5ltr msg	pcG
22447	1358	FUV	FNy Djibuti	DJI ITA2/75/850 faaa de fuv+ryry	pcG
22461	0455	FUM	FNy Noumea	NCL Baudot 75 Ry And Line Test	ewAU
22537	1401	FUF	FNy F.d.France	MRT ITA2/75/850 testing + ryry	pcG
22545	0507		Unid	? Unksys 100/850 encrypted	ewAU
22615,1	0513		Unid	? Unksys 100/850 encrypted	ewAU
22630	0515		Unid	? Unksys 75/850 encrypted	ewAU
22930	0517		Unid	? Unksys 50/850 encrypted	ewAU
23370	1405	HZN50	Jeddah METEO	ARS ITA2/100/400 cont met msgs	pcG
23522,9	0810	JMJ6	Tokyo Meteo	J fax 120/576 Far E. Cyclone	zeTC

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T I M E S I G N A L

2500	2016	ULA4	TS Tashkent	UZB cw wkg timesynch	ti24
3883	1916		unid timesignal	RUS cw hhmm, utc + 4 hours	ti24
14997	1920	RWM	TS Moscow	RUS cw wkg timesynch	ti24

Q S L - R E V I E W

ITU-Station	Days	rcvd/gvn	QRG	Callsign	Power	Name
AGL-Luanda R.	103	f/d lt,i/vc,IRC	8565	D3E	5000 w	dmRU
AIR-Swedish Ny Helo 73	110	ppc,sticker/SAE	5680	Y73	175 w	gsLX
CAN-TS Ottawa	11	cd	3330	CHU		lrG
CHN-Cape d'Aguiar R.	56	QSL-folder,fo/vc,IRC	8539	VRX35	5000 w	dmRU
D -DWD Offenbach	14	lt,fo tx,sked	3855	DDH3	10000 w	zeTC
D -NDB Mönchengladbach	3	PPC/vc,sase	377	`MGB`	5 w	pt53
G -NDB Burnham	14	f/d lt	421	`BUR`		lrG
G -NDB Fair Oaks	181	f/d lt f/up	348	`FOS`		lrG
GRL-Aasiaat R.	250	n/d colour fd 2f/ups	8749	OYR		lrG
I -Roma R.	121	f/d lt,sked/vc,IRC	13015,5	IAR	10000 w	dmRU
IW -FGS Oste	26	ppc,QSL-ltr/SASE	10722	DRHH		gsLX
IW -Lfb.Wilhelm Kaysen	14	ppc,ltr,fo/SASE	2182	DBAK	200 w	gsLX
IW -MV Clodia	17	ppc/SASE	2182	ICOC	750 w	gsLX
IW -MV Diamant	7	ppc,ltr/SASE	2182	LXHD		gsLX
IW -MV Englishman	10	ppc,fo,ltr/SASE	2182	C6NF5	250 w	gsLX
IW -MV Espresso Catania	18	ppc,fo,sti/SASE	2182	IBVM	400 w	gsLX
IW -MV Espresso Venezia	18	ppc/SASE	2182	IBVO	1200 w	gsLX
IW -MV Far Service	26	ppc,info/SASE	2182	MSUQ9	400 w	gsLX
IW -MV Grampian Crusader	73	ppc,fo/SASE	2182	MMBD4		gsLX
IW -MV Grampian Dee	25	ppc/SASE	2182	MMRW7		gsLX
IW -MV Grampian Hunter	67	ppc/SASE	2182	MPPH5	500 w	gsLX
IW -MV Grampian Sprite	42	ppc/SASE	2182	GCLK		gsLX
IW -MV Grampian Star	11	ppc,ltr/SASE	2182	MKHG4		gsLX
IW -MV Jolly Smeraldo	106	ppc,fo/SASE	2182	IBYA		gsLX
IW -MV Lazio	14	ppc,ltr/SASE	2182	IOLL	400 w	gsLX
IW -MV Lowland Pioneer	37	ppc/SASE	2182	GFQK		gsLX
IW -MV Maersk Challenger	16	ppc,info/SASE	2182	GHLX		gsLX
IW -MV Norbay	15	ppc/SASE	2182	MSLN2		gsLX
IW -MV Normand Skipper	73	ppc/SASE	2182	LIWH3	400 w	gsLX
IW -MV Prince of Scandinana	16	ppc,fo/SAE	2182	OVRY2	750 w	gsLX
IW -MV Rapide	10	ppc/SASE	2182	LXGB	200 w	gsLX
IW -MV Risnes	126	ppc,fos/SAE	2182	P3LF5	200 w	gsLX
IW -MV Serviceman	17	ppc,fo/SASE	2182	C6PG8	150 w	gsLX
IW -MV Skandi Marstein	37	ppc,info/SASE	2182	LIDL		gsLX
IW -MV Stirling Pegasus	17	ppc/SASE	2182	8PLH		gsLX
IW -MV Stirling Spica	14	ppc,fo/SASE	2182	8PLF	250 w	gsLX
IW -MV Torres	26	ppc,ltr/SASE	2182	IBNH	400 w	gsLX
IW -MV Veesea Storm	90	ppc,ltr/SASE	2182	C6OY6	50 w	gsLX
IW -MV Veesea Tornado	26	ppc,info/SASE	2182	C6OY9		gsLX
IW -MV Viking Challenger	32	ppc,info/SASE	2182	MLLR9		gsLX
IW -Rig Sedco 704	16	ppc,fo/SASE	2182	A8JD	400 w	gsLX
IW -Rig Sedco 714	15	ppc/SASE	2182	ELDG4	400 w	gsLX
LUX-NDB Diekirch	6	PPC/vc,USD	307	`DIK`	50 w	pt53
LUX-NDB Luxemburg	6	PPC/vc,USD	318	`LE`	50 w	pt53
LUX-NDB West Luxemburg	6	PPC/vc,USD	346	`WLU`	50 w	pt53
MCO-Monte Carlo R.	11	cd/IRC returned	8423,	3AC	10kw	pcG
TUR-Bandırma Meteo	26	ppc/SAE	6965	YMB20	500 w	gsLX
USA-LDOC Silvail Miami	77	info,sti no qsl!	10033			lrG
USA-Mobile R.	53	cd/vc,IRC	16828	WLO		dmRU

Addresses/Infos/Veri-signers:

NDB F on 268 is not Tampere, FIN. It is clearly heard here in Kazan (abt 1500 km away from Finland) during the daytime. The format of sending an id (4 x 5=1 min) is rather unusual.(dmRU)

to lrG: (your request concerning Hopen R./LMR) Hopen is a small island southeast of Svalbard/SVB. OM Dieter (dp47) visited Vardoe Radio/LGV and the radio operator asked him if he ever heard Hopen Radio. He denied this question and so

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Vardoe Radio contacted Hopen Radio on 2182 kHz for a radio-check (especially for OM Dieter!!!). Will be hard to hear for us....

to Geir Laastad (query in EUNL 11-98) answered by Alan Gale:  
 Regarding this query, I don't have any information about the callsign, but looking at my logs on 5680 that night I found the following:  
 Rescue 11 at 2340z in r/check with Kinloss - `We have GPS and CTS unserviceable, but will continue on task and try to locate the beacon!`

Rescue 11 was a RAF Nimrod Maritime Recon plane from RAF Kinloss, and by the sounds of things was scrambled to investigate a SARSAT hit on 243 MHz. Perhaps this was from the Aurora, and that may explain why they wanted the callsign of the aircraft. Quite often emergency beacons are accidentally activated and the SAR aircraft go out to try and DF them. If they can't get a fix because the signal is moving around they usually try and contact any other aircraft operating in that area. Chances are if they did make contact it would have been on a UHF channel like 282.8 MHz - course that's all pure speculation, though I guess if there had been a problem with a Top Secret plane we wouldn't have heard much about it in the newspapers anyway! :-)

Inquiries Department: Help is needed for OM Patrick - F8AIH:  
 On 436.0 I often catch ZBN - beacon transmitting from Zweibrucken. But before this one started I often heard a TEST call. My question is : was it the same beacon ? As some of your contributors are located in this area maybe someone could help to solve this "mystery" !! Please info to f8aih@parana.ampr.org (or to your ed and I will forward your message).  
 On November 13th, I heard a new UNID beacon..but maybe one of the EUNL contributor know something about it : it is MF on 421.5 - no tone, no dash, call repeated every 5 second. (f8aih) INFO???? ed.

Anyone got good addresses for UON - Baku R : and RUF9 - Krasnodar R : or SUH-Alexandria R??? (pcg)

Solved NDB`s by Alan Gale (EUNL 10+11-98) - tnx Alan!!!

284	1903	AN	Ankara?	TUR	288	1905	OM Heines	NOR
306,5	1912	VD	Vardoe Lt.?	NOR	386	1951	HK Hasvik	NOR
419	1459	LSO	Lee-on-Solent	G	906	1958	PE Pechory	RUS
1145	0122	KK	Krasnoarmiis'k	UKR				

OYR Aasiaat R.: Tele Greenland, A/S Hans Lyngep AQ03, DK-3950 Aasiaat (lrG)  
 BUR NDB Burnham: NATS, Spectrum House, Gatwick Road, Gatwick Airport South, West Sussex RH6 0LG (lrG)  
 MGB NDB Mönchengladbach: Flughafengesellschaft Mönchengladbach, Flughafenstrasse 95, 41066 Mönchengladbach (pt53)  
 DIK, LE, WLU NDBs Luxemburg: Administration Aéroport de Luxembourg, Boîte Postale 273, L-2012 Luxembourg (pt53)  
 Swedish Ny Y73 12:e Helicopterdivisionen, Box 19117, S-40081 Göteborg (gsLX)  
 YMB20 Bandirma Meteo: Bandirma Deniz Meteoroloji, Istilal Istasyonu, TR-Bandirma, Turkey (gsLX)  
 8PLF Stirling Spica: Stirling Shipmanagement Ltd., 16 Woodside Crescent, Glasgow G3 7UT (gsLX)  
 8PLH Stirling Pegasus: Stirling Shipmanagement Ltd., 16 Woodside Crescent, Glasgow G3 7UT (gsLX)  
 A8JD Sedco 704: Sedco Forex, 50 Avenue Jean Jaures, BP 599, F-92542 Montrouge, France (gsLX)  
 C6NF5 Englishman: Specialist Marine Services Ltd., Waterside House, Livingstone Road, Hessle, North Humberside HU13 0EG (gsLX)  
 C6OY6 Veesea Storm: Vector Offshore Ltd., Vector House, Marine Base, South Denes Road, Great Yarmouth NR30 3QQ (gsLX)  
 C6OY9 Veesea Tornado: Vector Offshore Ltd., Vector House, Marine Base, South Denes Road, Great Yarmouth NR30 3QQ (gsLX)  
 C6PG8 Serviceman: Seacor Marine BV, Zalmstraat 1, 3016 DS Rotterdam, The Netherlands (gsLX)  
 DBAK Wilhelm Kaysen Lfb.: Südhafen, D-27498 Helgoland (gsLX)  
 DRHH FGS Oste: NavCommStaff 70, Schwerinerstrasse 17a, D-24106 Kiel (gsLX)  
 ELDG4 Sedco 714: Sedco Forex, 50 Avenue Jean Jaures, BP 599, F-92542 Montrouge, France (gsLX)  
 GFQK Lowland Pioneer: Lowline Ltd., Morley House, Badminton Court, Amersham,



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Buckinghamshire HP7 0DA (gsLX)  
GHLX Maersk Challenger: The Maersk Co.Ltd., One Canada Square, Canary Warf, London E14 5DP, United Kingdom (gsLX)  
IBNH Torres: Tirrenia di Navigazione, CP 142, Rione Sirignano, I-80121 Napoli, Italia (gsLX)  
IBVM Espresso Catania: Adriatica Di Navigazione, CP 705, Zattere 1411, I-30123 Venezia, Italia (gsLX)  
IBVO Espresso Venezia: Adriatica Di Navigazione, CP 705, Zattere 1411, I-30123 Venezia, Italia (gsLX)  
IBYA Jooly Smeraldo: Ignazio Messina & Co. SpA, Via G. d'Annunzio 91, I-16121 Genova, Italia (gsLX)  
ICOC Clodia: Tirrenia di Navigazione, CP 142, Rione Sirignano, I-80121 Napoli, Italia (gsLX)  
IOLL Lazio: Tirrenia di Navigazione, CP 142, Rione Sirignano, I-80121 Napoli, Italia (gsLX)  
LIDL Skandi Marstein: DOF Management AS, Postboks D, N-5392 Storebo (gsLX)  
LIWH3 Normand Skipper: Solstad Shipping AS, Postboks 130, N-4281 Skudeneshavn, Norway (gsLX)  
LXGB Rapide: Hoverspeed Holyman Ltd., International Hoverport, Western Docks, Marine Parade, Dover, Kent CT17 9TG (gsLX)  
LXHD Diamant: Hoverspeed Holyman Ltd., International Hoverport, western Docks, Marine Parade, Dover, Kent CT17 9TG (gsLX)  
MLLR9 Viking Challenger: Viking Standby Ltd. Annat House, South Quay, Ferryden, Montrose DD10 9UB, United Kingdom (gsLX)  
MSLN2 Norbay: P&O North Sea Ferries BV, Postbus 1123, 3180 AC Rozenburg, The Netherlands (gsLX)  
MSUQ9 Far Service: Farstad Shipping Ltd., Farstad House, Badentoy Avenue, Aberdeen AB1 4YB (gsLX)  
OVRY2 Prince of Scandinavia: DFDS AS, Sankt Annae Plads 30, DK-1295 Copenhagen K, Denmark (gsLX)  
P3LF5 Risnes: Donnelly Shipmanagement, 8 John Kennedy Street, Iris House, 3rd Floor, PO Box 7215, Limassol, Cyprus (gsLX)

Thanks to our diligent (14) contributors in this issue: pt53, ti47/ti24, lrG, dmRU, jnDK, abNL, ewAU (Australia), hb01, gsLX, pdCH, agG, zeTC, pcG, f8aih, and of course to all who send in stuff during the past year!!!!  
(abNL+ewAU+pcG+hb01: some of your logs will be in EUNL 1-99 ->space problems, sry!)

gd dx + 73`s; until next month

Andreas