

## COTHEN ALE & AIRCRAFT LIST

Last Updated: 30 June 2020

Send updates, additions, & corrections to [mdmonitor1@verizon.net](mailto:mdmonitor1@verizon.net)

Information in this file has been collected on openly available internet sources as well as personal monitoring and posts by other monitors.

NO classified information is knowingly included in this file.

This list contains ALE address and frequency information for the COTHEN ALE Net as well as Commsta Kodiak and other logged USCG ALE nets. It also includes the latest list of known USCG aircraft.



---

### COTHEN background info:

COTHEN is an HF ALE network that uses landlines to connect nineteen transmission sites spanning the nation in order to form one unified coverage area. Currently, the network has 19 sites, 89 remote communications consoles (RCC's), and a Technical Service Center in Orlando, FL.

Back in 1984, the design for a U.S. Customs radio network was conceived. Code-named COTHEN, Cellular Over The Horizon Enforcement Network, it combines a radio, computer, and a tactical voice privacy unit into a state-of-the-art communications system that meets the demanding requirements of tactical interdiction aircraft and boats in their fight against smuggling activities.

COTHEN's first fixed station transmitter near Memphis, Tenn., became operational in 1985. The Blue Lightning Operations Center was the first command office and its marine vessels were the first tactical platforms to have COTHEN radios. This initial deployment proved so successful that COTHEN grew to include all U.S. Customs aircraft.

COTHEN now provides communications support for hundreds of aircraft, marine interdiction vessels, command offices, and numerous agencies including the U.S. Coast Guard, Drug Enforcement Administration, Border Patrol, Army, Navy, and Joint Interagency Task Forces. COTHEN's Technical Service Center (TSC) provides real-time on-the-air support services and guarantees communications between users. The Telecommunications Specialists who operate the TSC have many innovative diagnostic tools used to ensure communications, including a telephone patch (TRICS), a platform tracking and location system (TRACS), and over-the-air-rekeying capabilities (DARK).

The TSC constantly monitors all communications using the network by tracking the radio calls of all assets. The TSC operators ensure that communications are established and that links are optimal. This is done by observing which land site a radio call is using to establish the link. If the link is not the best one possible, the TSC operator can remotely change the site, improving the quality of the communications.

The TSC is an important aspect of COTHEN because it provides a central hub for the network and because it is staffed by highly experienced operators. There is a back-up control site for the TSC in Cedar Rapids, Iowa. Having a secondary control site protects COTHEN against any terrorist attack or natural disaster, such as a hurricane.

Each 1 KW transmission site has two antennas; Omni TS 530 and a Directional TS 540.

A 2008 Coast Guard documents list 19 transmitter sites in the COTHEN network:

Site I.D -	Latitude Longitude -	Town
ATL -	32 55' 18" N 84 39' 33" W -	Warm Springs, GA (S. of Atlanta)
MEM -	34 36' 59" N 090 04 53" W -	Senatobia, MS (S. of Memphis)
OKO/OKD -	34 51' 46" N 097 51' 47" W -	Chichasha, OK (SW of Oklahoma City)
LUV -	40 05' 21" N 118 31' 57" W -	Lovelock, NV (NE of Reno)
RSH -	34 49' 02" N 078 07 55" W -	Concord, NC (E of Fayetteville)
KCM -	38 36' 96" N 093 36' 35" W -	Kansas City, MO (South of Whiteman AFB)

DEN - 39 26' 26" N 103 57' 31" W - Agate, CO (SE of Denver)  
 ABQ - 35 08' 39" N 105 54' 31" W - Stanley , NM (E of Albuquerque)  
 CDI - 34 57' 30" N 076 16' 36" W - Cedar Island, NC (SE of Raleigh, E of Jacksonville)  
 VGS - 36 35' 44" N 114 29' 27" W - Longandale, NV (NE of Vegas)  
 RNO - 38 52' 00" N 119 24' 38" W - Simpson, NV (SE of Reno)  
 SEA - 34 58' 07" N 078 23' 32" W - Clinton, NC (E of Fayetteville)  
 CDR - 42 00' 26" N 091 29' 43" W - Cedar Rapids, IA  
 SAR - 27 21' 15" N 081 52' 25" W - Limestone, FL (E of Sarasota)  
 FTM - 26 33' 38" N 081 25" 00" W - Sarasota, FL  
 PR1 - 18 29' 08" N 066 37' 59" W - Islote, PR (W of San Juan)  
 CR1-CR8 - 42 03' 18" N 091 63' 75" W - Cedar Rapids, IA  
 SS1 - 42 00' 26" N 0 91 29' 43" W - Cedar Rapids, IA

These site locations were selected by Customs to give optimum coverage of the area of operation.

11-2015 - Service Center states on air there is a new COTHEN antenna in Honolulu.

A 2019 DHS contract proposal lists the following locations for COTHEN system:

## Site Support Locations

Below is a list of current support locations by site type. Locations may change as sites are added or removed from the network.

Operations Center Locations		
1	Primary Operations Center	Orlando, FL
2	Secondary Operations Center	Oxford Junction, IA

Fixed Antenna Site Locations					
CBP Sites		Vendor Sites		Customer Sites (USCG)	
1	Albuquerque, NM	1	Kirvin, TX	1	Boston, MA (4Kw Split Site)
2	Arecibo, PR	2	Oxford Junction, IA	2	Honolulu, HI (4Kw Split Site)
3	Atlanta, GA			3	Pt. Reyes, CA (4Kw Split Site)
4	Cedar Island, NC			4	Kodiak, AK
5	Denver, CO			5	Guam (future site)
6	Fort Myers, FL				
7	Sarasota, FL				
8	Kansas City, MO				
9	Las Vegas, NV				
10	Lovelock, NV				
11	Marion, IA				
12	Memphis, TN				
13	Oklahoma City, OK (Directional)				
14	Oklahoma City, OK (Omni)				
15	Rose Hill, NC				
16	Sea Level, NC				
17	Wellington, NV				

Aircraft Locations					
1	Albuquerque, NM	8	Hammond, LA	15	Riverside, CA
2	Bellingham, WA	9	Houston, TX	16	Ronkonkoma, NY
3	Corpus Christi, TX	10	Jacksonville, FL	17	San Angelo, TX
4	El Paso, TX	11	McAllen, TX	18	San Antonio, TX
5	Grand Forks, ND	12	Miami, FL	19	San Diego, CA
6	Great Falls, MT	13	Plattsburg, NY	20	Selfridge, MI
7	Hagerstown, MD	14	Ramey, PR	21	Tucson, AZ

Vessel Locations	
1	Miami, FL
2	Port Heron, MI
3	San Diego, CA
4	San Juan, PR
5	Sault Saint Marie, MI
6	St. Augustine, FL
7	St. Thomas, VI

Remote Communications Console (RCC) Locations			
The list below contains the current locations of the 113 distributed RCCs, both CONUS and OCONUS.			
Agana, Guam	Falmouth, MA	Mexico City, Mexico	San Antonio, TX
Aguadilla, PR	Farmingdale, NY	Miami, FL	San Diego, TX
Alameda, CA	Grand Forks, ND	Milwaukee, WI	San Francisco, CA
Albuquerque, NM	Great Falls, MT	Mobile, AL	San Juan, PR
Anchorage, AK	Hammond, LA	Nassau, Bahamas	Seattle, WA
Baltimore, MD	Hampton, VA	New Orleans, LA	St Louis, MO
Bellingham, WA	Homestead, FL	North Bend, OR	St Petersburg, FL
Bluemont, VA	Honolulu, HI	Oklahoma City, OK	Staten Island, NY
Boston, MA	Houston, TX	Orlando, FL (NLECC)	Orlando, FL (Hi-Tech)
Buffalo, NY	Jacksonville, FL	Oxford Junction, IA	Toa Baja, Puerto Rico
Cedar Rapids, IA	Juneau, AK	Philadelphia, PA	Tucson, AZ
Charleston, SC	Key West, FL	Plattsburg, NY	Virginia Beach, VA
Chesapeake, VA	Kodiak, AK	South Portland, ME	Warrenton, OR
Corpus Christi, TX	Los Angeles, CA	Portsmouth, VA	Washington, DC
Detroit, MI	Louisville, KY	Pt. Reyes, CA	Wilmington, NC

East Haven, CT	McKinleyville, CA	Riverside, CA	
El Paso, TX	Memphis, TN	San Angelo, TX	

## USA

### U.S. Customs and Border Protection Aviation

**Current Order of Battle:**

Base	Location	Type
<b>U.S. Customs and Border Protection</b>		
HQ		Washington, DC
<a href="#"><u>Air and Marine Operations Center (AMOC)</u></a>		March ARB, Riverside, CA
<b>Caribbean Air and Marine Operations Center (CAMOC)</b>		Punta Salinas ANGS, Toa Baja, PR
<a href="#"><u>National Air Training Center Oklahoma City (NATC-OKC)</u></a>	Oklahoma City/Will Rogers AP, OK	Cessna, 210, 2x Cessna 550, 2x C-12C, PA-18, AS-350B, EC-120B, MD-369E
National Air Training Center El Paso (NATC-ELP)	El Paso IAP; TX	UH-1H, OH-6A
<a href="#"><u>P-3 Operations Center Corpus Christi</u></a>	NAS Corpus Christi, TX	5x P-3AEW, 4x P-3A, 1x P-3B
<a href="#"><u>P-3 Operations Center Jacksonville</u></a>	Cecil Field, FL	3x P-3AEW, 3x P-3B
<b>Northern Region, Selfridge ANGB,MI</b>		
<a href="#"><u>Bellingham Air &amp; Marine Branch</u></a>	Bellingham IAP, WA	2x Cessna 550, 1x UH-60A, 2x AS-350B, 1x PC-12, 1x Cessna 206
<b>Buffalo Air &amp; Marine Branch</b>	Niagara Falls IAP, NY	EC-120B, AS-350B, Cessna 206H

<a href="#">Great Lakes Air &amp; Marine Branch</a>	Selfridge ANGB, IL	1x Cessna 210, 2x Cessna 550, 2x C-12C, 2x AS-350B, 2x UH-60A, 2x AW-139, 1x EC-120B
<b>Houlton Air Branch</b>	Houlton IAP, ME	1x Cessna 206, 1x EC-120B
<a href="#">Montana Air Branch</a>	Great Falls IAP, MT	1x Cessna 206, 2x Cessna 550, 1x PC-12, 2x UH-60A, 1x AS-350B
<a href="#">North Dakota Air Branch</a>	Grand Forks IAP, ND	1x Cessna 182, 2x Cessna 550, 1x PC-12, 2x Cessna 206, 2x UH-60A, 1x AS-350B, 2x EC-120B
<a href="#">UAS Operations Center-ND</a>	Grand Forks AFB, ND	2x MQ-9
<a href="#">Plattsburgh Air Branch</a>	Plattsburgh IAP, NY	1x PC-12, 1x Cessna 210, 2x Cessna 550, 2x AS-350B
<a href="#">New York Air Unit</a>	Ronkonkoma/MacArthur AP, NY	AS-350B
<b>Spokane Air Branch</b>	Felts Field, WA	AS-350B, Cessna 206H
<a href="#">Back to Top</a>		

**Southeast Region, Miami, FL**

<a href="#">Caribbean Air &amp; Marine Branch</a>	Aquidilla/Hernandez AP, PR	3x Dash-8, 3x C-12C/M, 4x UH-60A, 2x AS-350B, 1x OH-6A
<a href="#">Jacksonville Air &amp; Marine Branch</a>	NAS Jacksonville, FL	5x PA-42, 1x Cessna 210, 1x C-12C, 1x King Air, 2x AS-350B, 3x MD-369E
Tampa Air Unit	Clearwater IAP, FL	AS-350B
<a href="#">Miami Air &amp; Marine Branch</a>	Homestead ARB, FL	4x C-12C, 1x Cessna 206, 1x Cessna 210, 4x Cessna 550, 2x Dash-8, 4x UH-60A, 2x AS-350B
<a href="#">New Orleans Air &amp; Marine Branch</a>	Hammond MAP, LA	Cessna 206, 3x Cessna 210, 3x Cessna 550, 2x C-12C, 2x AS-350B
<a href="#">Pensacola Air Unit</a>	NAS Whiting Field, FL	2x AS-350B, 1x C-12C

[Back to Top](#)

**Southwest Region, Albuquerque,NM**

<b>Del Rio Air Branch</b>	Del Rio IAP, TX	PA-18, UH-1H, OH-6A, AS-350B
<a href="#">San Angelo Air Unit</a>	Mathis Field, TX	C-12C, 2x Cessna 206, 1x Cessna 550, AS-350B
Uvalde Air Unit	Uvalde Garner Field MAP, TX	AS-350B
<b>El Centro Air Branch</b>	Imperial County AP, CA	Cessna 182, PA-18, AS-350B, EC-120B
<b>El Paso Air Branch</b>	El Paso IAP, TX	1x Cessna 172N, Cessna 182, 1x Cessna 206, Cessna 210, Cessna 550, 1x UH-60A, UH-1H, OH-6A, MD-600N, AS-350B, EC-120B
<a href="#">Albuquerque Air Unit</a>	Kirtland AFB, NM	Cessna 210, 2x Cessna 550, 1x UH-60A, AS-350B
Deming Air Unit	Deming MAP, NM	MD-600N
<b><a href="#">Houston Air &amp; Marine Branch</a></b>	Wayne Hook MAP, Spring, TX	3x Cessna 210, 2x Cessna 550, 2x AS-350B
<b>Laredo Air Branch</b>	Laredo IAP, TX	Cessna 182, Cessna 206H, PA-18, AS-350B, EC-120B
<a href="#">San Antonio Air Unit</a>	San Antonio IAP, TX	1x Cessna 206, 1x Cessna 500, 2x AS-350B
<b>Marfa Air Branch</b>	Alpine-Casparis MAP, TX	Cessna 206, PA-18, UH-1H, OH-6A, AS-350B
<b>McAllen Air &amp; Marine Branch</b>	McAllen Miller IAP, TX	Cessna 182, Cessna 206H, AS-350B, EC-120B
<b><a href="#">San Diego Air &amp; Marine Branch</a></b>	NAS North Island, CA	1x Cessna 206, 3x Cessna 210, 4x Cessna 550, 1x C-12C, 3x AS-350B, 4x UH-1H, 3x UH-60A, 3x MD-369E, 3x MD-600N, 2x OH-6A
<a href="#">Riverside Air Unit</a>	March ARB, CA	AS-350B
Otay Mesa Air Unit	Brown Field AP, CA	MD-369E
Sacramento Air Unit	Mather AP, CA	AS-350B
<b><a href="#">Tucson Air Branch</a></b>	Davis Monthan AFB, AZ	Cessna 182, 1x Cessna 206, 2x Cessna 210, 1x PA-18, 5x Cessna 550, 4x UH-60A, 2x AS-350B, 1x EC-120B, 1x OH-6A

Tucson International Air Unit	Tucson IAP, TX	OH-6A
Sierra Vista Air Unit	Libby AAF/Fort Huachuca, AZ	OH-6A
<a href="#">Phoenix Air Unit</a>	Williams Gateway AP, AZ	1x C-12C, 1x UH-60A
UAS Operation Center-AZ	Libby AAF/Fort Huachuca, AZ	3x MQ-9
<b><u>Yuma Air Branch</u></b>	MCAS Yuma, AZ	Cessna 182, PA-18, UH-1H, AS-350B,

## US Customs Air assets operating locations

GTF--Great Falls International Airport Great Falls, Montana, USA

FHU--Sierra Vista Municipal Airport-Libby Army Airfield Fort Huachuca / Sierra Vista, AZ

DMA--Davis Monthan Air Force Base Tucson, AZ

DPA--DuPage Airport Chicago/West Chicago, IL

BLI--Bellingham International Airport Bellingham, WA,

NYI-- poss JFK Airport NYC, NY

RDR--Grand Forks Air Force Base Grand Forks, ND,

MFE-- Mc Allen Miller International Airport Mc Allen, TX,

SFF--Felts Field Airport Spokane, WA,

RIV--March Air Reserve Base Riverside, CA ,

NZY--North Island Naval Air Station (Halsey Field) San Diego, CA,

BQN--Rafael Hernandez Airport, Aquadilla PR

HMC

VQQ--Cecil Airport Jacksonville, FL,

E38-- [Alpine-Casparis Municipal Airport](#) - Alpine TX

HEF--Manassas Regional Airport/Harry P. Davis Field Washington, DC,

HDC--Hammond Northshore Regional Airport Hammond, LA,

DMN--Deming Municipal Airport Deming, NM ,

HUL--Houlton International Airport Houlton, ME,

ISP--Long Island Mac Arthur Airport New York, NY

MCC--Mc Clellan Airfield Sacramento, CA,

HST--Homestead Air Reserve Base Homestead, FL

OKC--Will Rogers World Airport Oklahoma City, OK,  
MTC--Selfridge Air National Guard Base Mount Clemens, MI,  
IAG--Niagara Falls International Airport Niagara Falls, NY,  
PBG--Plattsburgh International Airport Plattsburgh, NY,  
SAT--San Antonio International Airport San Antonio, TX,  
ELP--El Paso International Airport El Paso, TX,  
LRD--Laredo International Airport Laredo, TX,  
DRT--Del Rio International Airport. Del Rio TX  
NGP--Corpus Christi Naval Air Station/Truax Field Corpus Christi, TX,  
ABQ--Albuquerque International Sunport Airport Albuquerque, NM,  
CXO--Conroe-North Houston Regional Airport Houston, TX,  
SJT--San Angelo Regional Airport/Mathis Field San Angelo, TX  
NIP--Jacksonville Naval Air Station (Towers Field) Jacksonville, FL,

-----  
**Frequencies**  
-----

**COTHEN Net**  
-----

Original COTHEN Freqs: 5732, 7527, 8912, 10242, 11494, 13907, 15867, 18594, 20890, 23214, 25350 kHz USB

\*note - 11494 kHz is also a USDA frequency which accounts for occasional USDA traffic

6-09 - Regular COTHEN traffic appeared on 4614.5, 5909.5, 12222, 13312, 14582, 20662 kHz.

12-23-09 - Service Center reports, over the air, there are 14 channels in the COTHEN net. Mentions it again 6-22-11 and 10-21-11.

7-11-10 - COTHEN freqs monitored in 2010: 4614.5, 5250, 5732, 5909.5, 7527, 8912, 10242, 11494, 12222, 13312, 13907, 14582, 15867, 18594, 20890 kHz USB

12-8-11 - COTHEN freqs logged in 2011: 5732, 5909.5, 7527, 8912, 10242, 11494, 12222, 13312, 13907, 14582, 15867, 18594, 20890, 23214, 24838.5, 25350 kHz USB

COTHEN freqs logged in 2012-2015: 5250, 5732, 5909.5, 7527, 8912, 10242, 11494, 12222, 13312, 13907, 14582, 15867, 18594, 20890, 24838.5

**COTHEN Frequency Pool (commonly used frequencies omitted)**

3292 3369 3428 4500 5016.5 5120.5 5277 5571 5841 6685 7300 7330 7444 7657 7827 7864 8101 8986  
8989 9013 9047 9217 9497 9830.5 10348 11076 11098.5 11247 11288 11408 12054 12099 12138.5  
13419 13516 13517 14350 14686 14690 14874 14955 14974 15091 15513.5 17952 19131 20348.5 20631  
26594.5 27870 kHz

11-21-19 New COTHEN freq 3428.0 USB first heard.

12-17-19 New USCGC freq 7819.6 USB first heard.

01-25-20 New COTHEN freq 3369.0 USB first heard.

3-2-20 New COTHEN freq 9982.0 USB first heard

### **Commsta Kodiak ALE Net**

-----  
Freqs: 3053, 4730, 6709, 9034, 11196, 13221, 15082, 17988, 20135.6, 23072.6 kHz USB.

### **District 1 2006 NVIS Antenna Tests**

-----  
District 1 test net: 2103.5, 3056, 4900.6, 6742, 7791.6, 10538.6, 13494.6, 15088, 17991, 20328.6 kHz USB

### **LANT Cutter Net (Sporadic use)**

-----  
4900.6 (4/10), 6709 (4/10), 6742 (9/12), 7791.6 (4/10), 8337.6 (2/10), 8339 (9/08), 9034 (8/09), 10538.6 (3/12), 13494.6 (3/12), 17992.6 (3/12), 20330.1 (1/12) kHz USB

A previous cutter net noted in the District 7 OPBAT area included: 5912, 6750, 7793, 9038.4

Two District 8 cutters were logged in December 2009 sounding on 4614.5, 5320, and 5696.

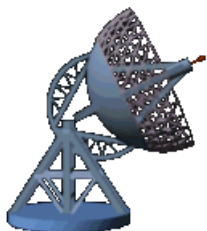
1-9-12 - Cutter SPENCER was logged sounding on 17992.6 and 20330.1 kHz

3-17-12 - Cutter VENTUROUS was sounding on COTHEN and 10538.6, 13494.6, 17992.6, 23072.6 kHz

10-30-12 - Cutter DILIGENCE sounding on 5321.4 kHz

1-27-14 - Cutter DILIGENCE sounding on 6516 kHz

10-20-16 - Cutter RELIANCE logged on 8294 kHz in ALE



### **ALE Idents**

-----  
The following idents appear on the nets.

Format: ALE address, user, id if known, stations worked, date first logged, date last logged  
-----

#### **##A USCG Response Boat-Medium**

11A USCG Response Boat-Medium 45611	w/Z09	3-26-15, 5-31-18
14A USCG Response Boat-Medium 45614	CG Stn New York w/TSC	9-15-13
21A USCG Response Boat-Medium 45621		12-13-14, 2-26-19
30A USCG Response Boat-Medium 45630	w/Z09, Z37	10-20-14
39A USCG Response Boat-Medium 45639	w/Z31	1-5-20
43A USCG Response Boat-Medium 45643	CG Stn Channel Islands Harbor CA	10-19-18
44A USCG Response Boat-Medium 45644	w/Z09	10-15-13, 1-8-20
51A USCG Response Boat-Medium 45651		1-16-18, 10-4-18
54A USCG Response Boat-Medium 45654	CG Stn Key West FL	3-3-18 1-9-19
58A USCG Response Boat-Medium		1-9-20

60A USCG Response Boat-Medium 45660 4-25-18  
65A USCG Response Boat-Medium 45665 11-15-14  
67A USCG Response Boat-Medium 45667 w/PAC 7-7-12  
77A USCG Response Boat-Medium 45677 11-1-15  
82A USCG Response Boat-Medium 45682 5-1-15  
83A USCG Response Boat-Medium 45683 CG Stn Key West FL 4-6-12, 4-15-12  
87A USCG Response Boat-Medium 45687 4-14-12  
90A USCG Response Boat-Medium w/09X 6-25-18  
91A USCG Response Boat-Medium 45691 w/TSC 3-3-17, 12-11-17  
93A USCG Response Boat-Medium 45693 9-21-12, 9-22-15  
97A USCG Response Boat-Medium 45697 w/Z09 2-7-16, 2-15-18

##B USCG Response Boat-Medium

01B USCG Response Boat-Medium 45601 w/LGV 10-13-12  
03B USCG Response Boat-Medium 45603 1-15-10, 1-18-20  
17B USCG Response Boat-Medium 45617 USCG Sector St Petersburg FL w/Z14 4-30-18, 1-18-20  
18B USCG Response Boat-Medium w/TSC 1-6-20  
19B USCG Response Boat-Medium 8-30-18, 12-9-19  
20B USCG Response Boat-Medium 8-26-18, 1-29-19  
34B USCG Response Boat-Medium 45634 2-8-16, 1-6-20  
36B USCG Response Boat-Medium 1-29-19  
51B USCG Response Boat-Medium USCG Sector Jacksonville FL w/Z11 4-22-16, 6-5-18  
58B USCG Response Boat-Medium 45658 USCG Sector Puget Sound WA w/13Z, Z30 3-20-15, 6-3-16  
59B USCG Response Boat-Medium 45659 w/GEI, 5-31-18  
67B USCG Response Boat-Medium 12-4-19 1-6-20  
73B USCG Response Boat-Medium 45673 12-17-18  
74B USCG Response Boat-Medium 45674 4-7-15  
79B USCG Response Boat-Medium 45679 USCG Sector Mobile AL /Z16 6-4-14, 9-20-18  
81B USCG Response Boat-Medium 45681 10-30-15, 10-11-16  
83B USCG Response Boat-Medium 45683 USCG Sector Mobile AL w/Z16 3-1-14, 5-9-15  
84B USCG Response Boat-Medium 45684 w/790 12-5-14, 12-14-19  
85B USCG Response Boat-Medium 45685 5-3-14, 8-21-15  
86B USCG Response Boat-Medium 45686 9-19-18  
87B USCG Response Boat-Medium 45687 USCG Sector New Orleans w/Z17 4-12-12, 10-9-14  
96B USCG Response Boat-Medium 45696 7-29-15, 8-13-16  
97B USCG Response Boat-Medium 45697 3-28-18

##C USCG Unknown

05C Unknown w/JOR 2-9-10, 10-3-13  
06C Unknown 1-19-18  
07C Unknown w/JOR 2-9-10 12-14-17  
19C Unknown 1-5-20  
25C Unknown callsign "CHARLIE 25" w/BGN, TSC 12-20-14, 7-26-15  
36C Unknown 4-8-14  
62C USCG Response Boat-Medium 45662 11-20-15  
75C Unknown w/HIC 1-8-18, 9-19-18

##D USCG Unknown

01D Unknown w/TSC, 46E, 08D 12-12-14, 6-1-15  
02D Unknown 1-19-11, 2-13-20  
03D Unknown w/46E 9-2-15, 11-10-19  
04D Unknown w/45E, 46E 9-27-15, 9-30-15  
05D Unknown w/Z17 5-25-12, 8-26-12  
06D Unknown w/TSC 2-15-13  
07D Unknown 2-3-20  
08D Unknown w/01D, NGB 6-1-15, 3-26-18  
13D USCG Unknown w/Z13 10-19-16  
14D USCG unknown w/TSC 3-5-19

##E USCG Unknown

02E Unknown w/720 8-9-09, 1-22-10  
15E Unknown 1-13-10, 2-13-20  
19E Unknown 5-13-14  
24E Unknown w/Z19 10-27-13  
34E Unknown w/LNT 11-7-14  
36E Unknown w/TSC 3-31-10  
40E Unknown w/Z29 10-15-13, 12-15-14  
43E Unknown w/TSC 8-28-09, 9-8-09  
45E USCG Unknown small trailered boat, voice call "145" w/04D 9-30-15, 2-3-20  
46E Unknown w/LNT, 01D, 03D, 04D 11-7-14, 2-3-20

##F prob shipboard Long Range Interceptor boats

03F Unknown w/BGN 10-3-16  
06F USCG unknown w/MAG 6-5-18  
07F Unknown w/HTC, BGN, TSC 12-3-17, 6-4-19

##G USCG Response Boat-Medium

01G USCG Response Boat-Medium 7-26-18  
27G USCG Response Boat-Medium w/BGN, ZVE 2-26-19 9-22-19  
31G USCG Response Boat-Medium 5-7-19  
34G USCG Response Boat-Medium 5-19-19  
35G USCG Response Boat-Medium w/ICB 6-3-19 8-11-19  
41G USCG Response Boat-Medium w/RPM 12-19-19 1-8-20  
48G USCG Response Boat-Medium w/IKL 12-4-19 12-27-19  
53G USCG Response Boat-Medium 10-8-16, 5-7-19  
61G USCG Response Boat-Medium w/HTC, BGN 1-24-18 2-26-19  
62G USCG Response Boat-Medium CG Stn Honolulu HI 9-13-18, 11-28-18  
66G USCG Response Boat-Medium w/NMH, w/HNC 3-6-18 9-17-18  
70G USCG Response Boat-Medium 4-25-18  
74G USCG Response Boat-Medium w/LGV 1-10-18, 1-30-19  
75G USCG Response Boat-Medium w/LGV, ICB 7-19-18, 11-29-19  
79G USCG Response Boat-Medium w/MUN 12-26-19  
80G- USCG Response Boat-Medium 6-19-18  
82G USCG Response Boat-Medium 12-16-18, 1-4-19  
83G USCG Response Boat-Medium w/ZVE, OWK 2-14-18  
84G USCG Response Boat-Medium w/NMH 5-3-18  
85G USCG Response Boat-Medium clg HNC, IKL 2-1-18, 2-26-19  
89G USCG Response Boat-Medium Boston Area, w/Z02, NAS 3-18-19 6-11-19  
90G USCG Response Boat-Medium w/TRK 5-17-19 7-1-19  
92G USCG Response Boat-Medium w/OWK, HNC, RPM 12-10-17, 7-17-19  
99G USCG Response Boat-Medium RPM, K19 6-19-18, 3-19-19

91H Unknown 5-4-19

99L Unknown 8-21-19

##M USCG Response Boat-Medium

02M USCG Response Boat-Medium CG Sector Guam w/Z33 9-22-18 1-27-20  
03M USCG Response Boat-Medium 45703 9-17-11  
04M USCG Response Boat-Medium 45704 w/Z09, Z10, Z16 9-6-13, 9-15-18  
05M USCG Response Boat-Medium 45705 w/Z16, Z12 3-23-14, 7-2-18  
07M Unknown w/VES 1-5-08, 11-17-09  
09M USCG Response Boat-Medium 45709, CG Stn Charleston, SC 10-3-13  
12M USCG Response Boat-Medium 45712 3-19-19  
19M USCG Response Boat-Medium 9-7-18  
22M USCG Response Boat-Medium 45722 w/Z10 3-18-15, 8-8-18  
24M USCG Response Boat-Medium w/Z14 8-14-18 9-6-18  
29M USCG Response Boat-Medium 45729 w/Z15 8-5-17, 12-4-19  
40M USCG Response Boat-Medium 45740 CG Stn Ft Meyers FL 12-11-17  
41M USCG Response Boat-Medium 45741 CG Sector Charleston w/Z10 4-17-15, 9-9-19

42M USCG Response Boat-Medium 45742 CG Baltimore w/Z07 8-3-14, 1-4-20  
43M USCG Response Boat-Medium 45743, CG Stn Charleston, SC 4-26-14, 3-3-18  
45M USCG Response Boat-Medium 45745 10-8-16  
67M USCG Response Boat-Medium 1-23-18  
68M USCG Response Boat-Medium 10-21-18  
74M USCG Response Boat-Medium 6-26-18 12-11-19  
95M USCG Response Boat-Medium w/Z10 12-15-14, 4-9-18

##M Unid CBP unit

29M Unknown 2-11-19  
62M Unknown 9-19-18  
82M Unknown 10-3-13  
89M w/EST, TSC 1-20-10, 5-10-12  
99M Unknown w/CRB, TSC 6-16-09

##X USCG HC-27J aircraft

03X USCG HC-27J #2703  
06X USCG HC-27J #2706  
07X USCG HC-27J #2707  
08X USCG HC-27J #2708  
09X USCG HC-27J #2709  
11X USCG HC-27J #2711  
13X USCG HC-27J #2713  
14X USCG HC-27J #2714

##X COTHEN Remote Directional Transmitter, Cedar Rapids, IA (No longer used)

03X COTHEN Remote Directional Transmitter, Cedar Rapids, IA 12-6-08, 3-17-17  
09X COTHEN Remote Directional Transmitter, Cedar Rapids, IA 12-16-08, 4-28-17  
15X COTHEN Remote Directional Transmitter, Cedar Rapids, IA 12-10-08, 3-17-17  
21X COTHEN Remote Directional Transmitter, Cedar Rapids, IA 12-16-08, 5-20-17  
27X COTHEN Remote Directional Transmitter, Cedar Rapids, IA 3-10-10, 4-20-17  
27XPRI COTHEN Remote Directional Transmitter, Cedar Rapids, IA 12-5-08, 12-16-08  
33X COTHEN Remote Directional Transmitter, Cedar Rapids, IA 12-16-08, 4-21-17

##Z USCG District Operations Centers

01Z USCG District 1 Ops, Boston MA w/RDC, w/N03, w/DBC, N13 12-10-09, 1-23-20  
05Z USCG District 5 Ops, Portsmouth VA w/LNT, NOJ, OPB, PAC, TSC 3-27-07, 11-9-18  
07Z USCG District 7 "Miami Ops" Miami FL w/UHC, DOA, 719, J03, 500 3-26-10, 12-26-19  
08Z USCG District 8 Ops New Orleans LA w/N07 3-24-12, 1-16-20  
09Z USCG District 9 Ops Cleveland OH 2-1-18  
11Z USCG District 11 Ops Alameda CA 4-1-12, 1-6-20  
13Z USCG District 13 Ops Seattle WA w/58B, 13X,ZVE 3-20-15, 6-30-20  
14Z USCG District 14 Ops Honolulu HI w/K48 11-17-12, 6-21-13  
17Z USCG District 17 Ops Juneau AK w/J35, J39 9-17-16, 11-16-18

001 USCG HC-130J #2001  
002 USCG HC-130J #2002  
003 USCG HC-130J #2003  
004 USCG HC-130J #2004  
005 USCG HC-130J #2005  
006 USCG HC-130J #2006  
007 USCG HC-130J #2007  
009 USCG HC-130J #2009

00N CBP CESSNA 550 #N1200N w/EST 12-16-08

00T, unknown w/02D 4-9-19

01 unknown 8-23-18

10001 unknown 8-7-18, 9-20-18

014FEM FEMA Station WGY9014 w/TSC 12-7-06, 7-10-07  
019FEM FEMA Station WGY9019 w/AL4 11-30-06

01Y USCG Unknown w/Z08 11-28-14

034FEM FEMA Station WGY9034, South Carolina w/FC4, TSC 12-7-06

05L Unknown 8-10-18 5-19-19

07F Unknown USCG District 11 entity w/RPM 1-30-19, 3-1-19

07K Unknown USCG District 11 entity w/VES, IKL, 711, YWL 4-28-09, 2-12-19

07P Unknown USCG District 11 entity w/JOR 1-4-08

08N Unknown w/JOR 3-10-12

08R Unknown w/Z09 3-21-14, 2-7-15

09CD Unknown w/J04 9-14-13, 9-16-13

0WK See OWK

1001 Unknown w/TSC, Z18 10-28-17

10R Unknown 4-20-12

11P Unknown w/TSC 7-1-19

12A unknown 3-1-19

12R unknown w/Z07 04-09-18

14R Unknown w/TSC 4-28-12

201 See I01 w/WST 11-9-04

28J Unknown

270 Unknown w/275 1-8-15

273 Unknown w/270 1-14-15

275 Unknown w/270 1-8-15

301 USCG HC-144A #2301 5-24-10

302 USCG HC-144A #2302, ATC Mobile 10-16-07

312 USCGC SANIBEL (WPB 1312) 2-22-10

314 USCGC SEPELO (WPB 1314) 10-24-14

36A Unknown w/TSC 10-19-12

39A Unknown 12-14-17

3CB Unknown w/TSC 2-19-11

4BF unid 7-16-18

437FEMAUX FEMA Auxiliary station w/TSC 3-27-06

43A Unknown w/TSC 9-22-12

444 Poss. CBP Marine Interceptor w/M70 11-22-04

46A Unknown 4-8-12

492 Poss. CBP Marine Interceptor w/707 4-14-07

4B2 Unknown w/Z14 2-15-18

4NK Unknown w/Z14 2-15-18

4FE unid 6-29-18

4VL unid USCG w/Z32 2-28-19

5## USCG HC-130s

502 USCG HC-130H #1502, CGAS Clearwater

503 USCG HC-130H #1503, CGAS Elizabeth City

50T Unknown

560 Unknown 11-1-12

564 Poss. CBP Marine Interceptor w/MC3 9-18-04

5869542200 Detroit area code called by CBP aircraft 4-23-18

599 Poss. CBP Marine Interceptor w/CS6 3-21-04, 5-17-07

5MJ Unknown w/TSC 7-20-11

603 Poss. CBP Marine Interceptor 1-20-15

626 Poss. CBP Marine Interceptor w/TSC 11-15-04, 3-30-06

630 Poss. CBP Marine Interceptor w/CS3 4-10-04

702 Poss. CBP Marine Interceptor w/ICE 2-26-10, 4-16-10

7## USCG HC-130s

700 USCG HC-130H #1700

701 USCG HC-130H #1701

702 USCG HC-130H #1702

703 USCG HC-130H #1703

704 USCG HC-130H #1704

707 USCG HC-130H #1707

709 USCG HC-130H #1709

711 USCG HC-130H #1711

712 USCG HC-130H #1712

713 USCG HC-130H #1713

714 USCG HC-130H #1714

715 USCG HC-130H #1715

716 USCG HC-130H #1716

718 USCG HC-130H #1718

720 USCG HC-130H #1720

778 Poss. CBP Marine Interceptor w/PR1 2-05-03

790 USCG HC-130H #1790

801 Poss. CBP Marine Interceptor w/CS5 2-4-03

809 Unknown w/TSC 4-5-16

821 Poss. CBP Marine Interceptor w/CS6 3-2-04

894 Unknown w/TSC 2-20-11

8MR unid w/J27 11-05-18

92F CBP HAWKER B300 #N192F 2-17-17

932ICE ICE Unit w/TSC 5-7-09, 6-2-09

934ICE ICE Unit

938ICE ICE Unit, voice call "938" w/TSC 2-29-12, 12-31-18

939ICE ICE Unit 11-5-12, 4-20-14

947ICE ICE Unit w/TSC 4-14-12, 8-2-16

948ICE ICE Unit w/TSC 2-10-10

951ICE ICE Unit w/TSC 1-19-10

995ICE ICE Unit 5-29-14

96D USCG MH-65C #6596 w/OPB, TSC, J39 5-18-08, 10-26-08

97D USCG MH-65C #6597 w/OPB, TSC 5-17-08, 5-25-08

99L Unknown w/Z09 11-9-14

9AC Unknown w/21A 1-26-11

9BP poss US Customs unit w/Z32, Z33, TSC, 62M 9-6-18 9-1918

9CD Unknown w/N01 5-3-08, 10-31-13

9DT CGAS Detroit " Air Ops" Detroit, MI w/APP, K79 TSC 9-16-16, 1-16-20

9MI USCG Unknown w/JPJ 10-20-16

9SA unknown w/11Z, N12 7-25-18 4-30-19

A8K Unknown CBP w/WST 4-30-18, 2-4-20

A0M Unknown w/EST, D07 4-14-14, 4-7-16

#### A## CBP Medium Lift Helicopters

A10 CBP UH-60 tail # 78-23010 10-11-03, 2-10-18

A18 CBP UH-60 tail # 77-22718 "OMAHA 718" prob Tucson AZ AMB 7-5-03, 6-25-20

A20 CBP UH-60 tail # 79-23320 1-30-03, 2-3-19

A21 CBP UH-60 tail # 79-23321 "OMAHA 321" 1-21-03, 1-16-18

A23 CBP UH-60 tail # 80-23423 "OMAHA 423" w/TSC, MCC, CRB, OPB 7-3-03, 4-25-18

A32 see A21 w/CS5 10-30-03

A321 see A21 w/CS5 10-30-03

A41 CBP UH-60 tail # 87-24641 "OMAHA 641" w/WCR 2-15-04, 1-1-20

A42 CBP Poss. AS 350B #N842BP 2-23-10

A44 CBP UH-60 tail # 79-23344 "OMAHA 44" w/P21 1-27-03, 2-8-18

A47 CBP UH-60 tail # 82-23747 "OMAHA 747" w/CNT 2-08-03, 1-4-19

A48 CBP UH-60 tail # 86-24548 "Omaha 48" w/TAA, CNT, WST 1-17-03, 6-28-20

A50 CBP UH-60 tail # 79-23350 w/EST, WST 2-7-03, 2-21-18

A58 CBP UH-60 tail # 86-24558, "BLACKHAWK 558", "OMAHA 558" 7-4-03, 6-23-20

A60 CBP UH-60M tail #08-27170, N72760 4-7-16, 10-10-18

A61 CBP UH-60M tail # 08-27171, Miami AMOC N72761 w/CNT 6-6-14, 3-10-16

A62 CBP UH-60 # 78-22962 Calif area 11-22-18 1-1-19

A63 CBP UH-60M tail #08-27172, N72763 w/CRB w/EST 6-2-16, 12-26-18

A64 CBP UH-60M tail #08-27173, N72764 Miami AMB Field Operations SRT 9-28-16, 1-14-20

A65 CBP UH-60 tail # 80-23465 6-26-03, 12-16-19

A70 CBP UH-60 tail # 82-23670 "OMAHA 670" w/WST 12-31-02, 12-19-19

A71 CBP UH-60M tail # 08-27171 6-23-12, 12-7-12  
A72 CBP UH-60M tail # 08-27172 "OMAHA 172" 6-26-12, 7-30-15  
A73 CBP UH-60M tail # 08-27173 w/TSC 10-14-11, 5-12-16  
A82 CBP UH-60 tail # 78-22982 11-19-03, 4-29-19  
A86 CBP AS 350 #N186AE 1-31-11  
A92 w/L02 5-18-14  
A97 CBP UH-60 tail # 79-23297 "OMAHA 297" 7-29-03, 12-20-19  
A99 CBP UH-60 tail # 79-23299, "OMAHA 299", Miami AMB, Homestead JARB, FL 2-06-03, 2-11-19

AAA Unknown w/CS5, TSC 1-9-04, 1-28-04

AAD USCGC PAUL CLARK WPC 1106 NAAD Miami, FL 1-20-15, 8-30-19

ABJ Prob USCGC w/Z15 4-13-12,

ABK poss USCGC Kimball WMSL 756 Honolulu, HI 2-9-18 7-27-18

ABQ CBP COTHEN Remote Communications Transmitter, Stanley, NM 6-28-09, 12-16-19  
ABQPRI CBP COTHEN Remote Communications Transmitter, Stanley, NM (ABQ) 9-28-08, 5-3-14  
ABQSEC CBP COTHEN Remote Communications Transmitter, Stanley, NM (ABQ) 9-27-07, 5-4-12  
ABQ96 w/TSC 8-8-19

ADD USCGC Unknown cutter w/DIL, TSC, J08, J09, J39, N01, C50, MR1 11-14-06, 10-3-13

ADQ USCGC District 17 unit 12-9-04, 10-7-05

AF4 unknown w/NMH 7-31-18

AJM Unknown

AJOBP AJO STATIONS' AREAS OF RESPONSIBILITY U.S. BORDER PATROL TUCSON SECTOR, ARIZONA U.S  
2-25-20

AKJ USCGC CHARLES DAVID WPC 1107 NAKJ Key West FL w/NMH1 3-10-14, 6-7-14

AL4 FEMA WGY954, Alabama EOC, Montgomery, AL w/019FEM 11-30-06, 12-7-06  
AL4FEM FEMA WGY954, Alabama EOC, Montgomery, AL w/TSC 11-14-08, 12-10-08  
AL4FMA FEMA WGY954, Alabama EOC, Montgomery, AL w/TSC 12-7-06, 5-15-07

ALC Aviation Logistics Center, Elizabeth City, NC Unknown w/TSC, J26 8-22-14, 4-24-15

AMN USCGC Angela McShan WPC 1135 NAMN Cape May NJ 6-3-19 3-17-20

ANG Army National Guard Base Station w/TSC1 4-2-15  
ANG01 Army National Guard Base Station  
ANG02 Iowa Army National Guard Base Station w/R08814, MOBIL1 3-13-15, 4-8-15  
ANG03 Arizona Army National Guard Base Station w/R23976 4-16-18 1-21-19  
ANG04 Army National Guard Base Station w/R23449 8-6-15  
ANG05 Army National Guard Base Station w/R23997 8-5-15  
ANG07 Army National Guard Base Station w/TSC 3-22-15  
ANG08 Army National Guard Base Station w/ R00150, R26667 12-19-19  
ANG09 224 AVN, Virginia Army National Guard Base Station w/R26844 6-1-15

AP1 Unknown COTHEN Remote Command Console w/MV5, DL1 6-4-07

ANZ Unknown

APP Unknown w/MR1, 41M, 9DT, RPK, N09 7-15-15, 1-30-19  
APP01 Unknown w/TSC 2-20-15  
APP02 Unknown w/TSC 2-20-15

AQD USCGC JARVIS (WHEC 725) 2-17-12. Decomissioned-- Xferred to Bangladesh Navy

ARU USCGC COHO WPB 87321 NARU Panama City FL 3-26-15, 1-28-16

AST USCG Unknown w/H99 8-29-04

ATL CBP COTHEN Remote Communications Transmitter, Warm Springs, GA 3-27-10, 6-20-20  
ATLPRI CBP COTHEN Remote Communications Transmitter, Warm Springs, GA (ATL) 12-6-07, 7-13-10  
ATLSEC CBP COTHEN Remote Communications Transmitter, Warm Springs, GA (ATL) 12-20-07, 3-10-09

ATT2 USCG Poss. Attu Island, AK w/709 10-3-07  
ATU USCG Poss. Attu Island, AK w/NOJ 12-9-04, 7-17-05

AV7 Unknown 4-24-15, 6-28-18

AVC USCGC SOCKEYE WPB 87337 NAVC Bodega Bay CA 8-21-15 1-20-20

AWH USCGC Hawk WPB 87355 NAWH St. Petersburg, FL 6-22-18, 2-11-19

AXN USCGC FLYING FISH WPB 87346 NAXN Boston MA 1-17-18, 7-4-19

AXP USCGC HADDOCK WPB 87347 NAXP San Diego CA w/Z29, PAC 4-8-08, 2-11-20

AXQ USCGC OAK WLB 211 NAXQ Newport RI 11-5-16, 6-2-19

AYL USCGC DOLPHIN WPB 87354 NAYL Miami FL w/TSC 7-22-08, 1-13-20

AYS USCGC BRANT WPB 87348 NAYS Corpus Christi TX w/Z19 8-23-14, 9-13-14

AYT USCGC SHEARWATER WPB 87349 NAYT Portsmouth VA w/TSC 3-19-15

AYU USCGC PETREL WPB 87350 NAYU San Diego CA w/Z29 4-10-08, 2-11-19

AYV USCGC FIR WLB 213 NAYV Astoria OR 3-3-10

B02 Unknown w/TSC 10-6-05  
B03 Unknown

B7770 unid w/WRLNG 10-25-18

BAB USCGC Bailey Barco WPC 1122 NBAB Ketchikan, AK

BAC Unknown w/718 11-13-16

BCQ USCGC Bertholf WMSL 750 NBCQ Alameda CA w/BGN 1-24-12, 8-21-18

BCU USCGC SAWFISH WPB 87357 NBCU Key West FL w/Z13, Z29, TSC 3-27-08, 1-18-10

BDA USCGC w/Z19 2-11-20

BDE USCGC AHI WP87364 NBDE Honolulu HI 7-3-19

BES Unknown

BDR Unknown 1-16-20

BGB USCGC MACKINAW WLBB 30 NBGB Cheboygan MI 11-28-17, 10-10-18

BGN USCGC WAESCHE WMSL 751 NBGN Alameda CA w/NOJ, BCQ, C30, Z32, 07F, 61G, 1-10-12, 3-11-19  
BGN1 USCGC WAESCHE (WMSL 751) interceptor boat w/TSC 12-6-14, 12-10-14  
BGN2 USCGC WAESCHE (WMSL 751) interceptor boat

BGR See BGRNG

BGRNG Maine ArNG AASF #1, Bangor IAP, Bangor, ME w/R22980, R23696, R26191, R26668, R26671, R26672, L1126, MEJT01, REDHWK 7-1-15, 8-19-16

BHF USCGC SEQUOIA WLB-215 NBHF Apra Harbor Guam 8-7-13, 3-20-19

BMT Unknown

BNB USCGC Benjamin Bottoms WPC 1132 NBNB 10-4-18 6-24-20

BNW USCGC SITKINAK WPB 1329 NBNW Bayonne NJ 4-8-09, 3-15-13

BOB CBP Orlando, FL Customs National Law Enforcement Communications Center -- Technical Service Center w/MVT, CS4, IKE, DL1 12-22-04, 1-14-05

BOS USCGC COTHEN Remote Communications Transmitter Boston, MA 11-11-16, 6-20-20

BRF USCGC OSPREY WPB 87307 NBRF Port Townsend WA 6-19-14 9-6-18

BRG USCGC STINGRAY WPB 87305 NBRG Mobile, AL 1-24-18, 12-18-19

BROOK Florida ARNG AASF #2 Brooksville, FL (Brooksville-Tampa Bay Regional Airport) 1-25-18

BTC USCGC Aquidneck WPB 1309 NBTC Atlantic Beach, NC previously deployed to CENTCOM, 9-18-18

BTM USCGC Polar Star WAGB 10 NBTM Seattle, WA w/LNT 1-8-20

BUA USCG Unknown w/LNT, TSC, TSC1 7-30-15 1-6-20

C## US Army Corps of Engineers ground stations and mobiles. The Corps of Engineers has 15 Deployable Tactical Operations System Emergency Command and Control Vehicles and 3 Mobile Communications Vehicles used to support FEMA and DHS communications during a crisis/disaster.

There are 15 ECCVs located across the continental U.S. as follows: 6-Mobile, AL; 3-Sacramento, CA; 1-Baltimore, MD; 1-Nashville, TN; 1-St. Louis, MO; 1-Ft. Worth, TX; 1-Los Angeles, CA; 1-Portland, OR.

There is one MCV at each of the following locations: San Juan, PR; Mobile, AL; Baltimore, MD.

Three were used at the WTC after 9/11.

C01 USACE Rapid Response Vehicle 6-9-04, 3-17-10

C01A USACE w/C02A, C10 9-21-12, 3-27-13

C02 USACE Rapid Response Vehicle 9-20-03, 12-5-14

C02A USACE w/C32, C01A, C03A 5-18-11, 12-5-14

C03 USACE Rapid Response Vehicle, voice call "RRV 03" 3-17-10, 10-4-18

C03A w/C02A, C10 2-14-11, 6-11-15

C04 USACE Rapid Response Vehicle 3-3-04, 10-18-16

CO4A

C05 USACE Rapid Response Vehicle 7-15-04, 12-19-19

C05A USACE w/COE, C06A 4-27-11, 8-2-18

C06 USACE Rapid Response Vehicle 3-3-04, 2-19-09

C06A USACE w/C05A 11-21-14, 1-23-15

C08 USACE Rapid Response Vehicle w/CRB 5-19-11, 4-9-14

C08A USACE w/C99, 001A 5-19-11, 9-17-15

C09A USACE w/C10C 2-9-11

C10 USACE Tactical Operations System, Mobile, AL w/C33A, C01A, C20, C32 2-25-04, 12-27-19

C10A USACE 4-29-11, 5-4-11

C10B USACE w/COE 4-26-11

C10C USACE w/C09A, C10, COE 2-9-11

C11 USACE Emergency Command & Control Vehicle 9-20-03, 9-21-08

C11A USACE w/C10 3-8-14, 4-16-14

C12 USACE Emergency Command & Control Vehicle 3-3-04, 5-20-11

CO12A

C13 USACE Emergency Command & Control Vehicle 1-5-05, 2-9-05

C14A USACE Emergency Command & Control Vehicle 5-7-18

C16 USACE w/TSC1 10-7-16

C20 USACE Communications Office, Mobile, AL w/C10, C30, C99 8-19-04, 1-8-19  
C21 USACE TOC, Mobile, AL 3-10-04, 9-14-06  
C22 USACE TOC 5-12-07, 5-16-07  
C23 USACE TOC, Mobile, AL 6-8-05, 6-8-05  
C24 USACE TOC, Honolulu, HI  
C26 USACE Chicago, IL EOC, voice call "CHARLIE 26", w/COE, LRD1 11-3-04, 3-5-08  
C27 USACE Pittsburgh, PA EOC, voice call "CHARLIE 27", w/COE 4-7-04, 11-3-04  
C30 USACE EOC Anchorage, AK w/C20, BGN, COE, TSC 3-3-04, 1-8-19  
C31A USACE w/ROOAA 6-19-14, 9-14-18  
C32 USACE w/C02A 5-18-11  
C32A USACE w/C10 9-27-13, 1-24-20  
C33 USACE  
C33A USACE w/C10 2-11-11, 12-27-19  
C35 USACE Vicksburg, MS EOC, voice call "CHARLIE 35" w/COE 6-8-04, 1-9-07  
C36 USACE 8-4-03  
C37 USACE w/CS5 10-25-03  
C46 USACE Kansas City, MO EOC 7-12-06  
C47 USACE Omaha, NE EOC 7-12-06  
C50 USACE Operations Center, Washington, DC w/COE, PNR, 8JF, C10, ADD 11-6-03, 2-5-15  
C54 USACE  
C70 USACE Deployable Tactical Operations System Backup, Mobile, AL 4-14-10, 9-15-14  
C80 USACE w/C12 6-14-05, 2-15-06  
C99 USACE Portable radio unit w/TSC, C08A, C10, C20 5-25-05, 4-8-14

CAGBP CASA GRANDE STATIONS' AREAS OF RESPONSIBILITY U.S. BORDER PATROL TUCSON SECTOR, ARIZONA U.S. 3-3-20

CAM USCG CAMSPAC Point Reyes w/CSK 12-2-08  
CAMSPAC USCG CAMSPAC Point Reyes 12-9-08, 1-22-09

CBE USCGC TAHOMA WMEC 908 NCBE Kittery ME 6-15-05, 1-8-20  
CBE1 USCGC TAHOMA (WMEC 908) small boat 6-3-15

CCC CBP Unknown w/MR1, FGT 12-8-07, 7-9-08

CCTMSG 109th TASMG (Theatre Aviation Sustainment Maintenance Group) CT ArNG Groton-New London CT same as KGONNG 5-30-19

CDA CBP COTHEN Remote Command Console, Cedar Rapids IA, voice call "COTHEN 207", w/DL3, TSC 11-5-04, 4-22-07

CDI CBP COTHEN Remote Communications Transmitter, Cedar Island, NC 5-23-10, 12-21-19  
CDIPRI CBP COTHEN Remote Communications Transmitter, Cedar Island, NC (CDI) 3-10-09, 6-14-10  
CDISEC CBP COTHEN Remote Communications Transmitter, Cedar Island, NC (CDI) 12-17-08

CDR CBP COTHEN Remote Communications Transmitter, Cedar Rapids, IA 6-1-10, 2-16-19  
CDRPRI CBP COTHEN Remote Communications Transmitter, Cedar Rapids, IA (CDR) 9-28-07, 1-2-11  
CDRSEC CBP COTHEN Remote Communications Transmitter, Cedar Rapids, IA (CDR) 1-18-08, 1-23-09

CGA USCG Unknown w/790 3-1-05

CG1 poss USCG C-37 #01 w/TSC, DIL, LNT 11-14-04, 5-26-10

CIS01 Customs & immigration Service HQs. w/TSC 3-12-19

CIS52 Customs & immigration Service 12-30-19

CLR Unknown w/CS8 8-26-05

CMR Unknown w/RAY 2-2-05

CNF USCGC SAILFISH (WPB 87356) 9-14-15

CNT CBP AMOC Central Regional Communications Node 11-5-04, 4-29-19

COE US Army Corps of Engineers, Mobile, AL, voice call "CHARLIE OSCAR ECHO" w/CS8, CS2, CS3, CS4, TSC, 501, 719, J16, J40, C01, C02, C03, C04, C05, C05A, C06, C10, C10C, C11, C12, C13, C20, C21, C23, C26, C27, C30, C35, C50, STR, T72, MV5 10-24-03, 2-7-18

COLDBAY USCG Air Facility Cold Bay, AK 1-30-09, 12-17-14

COTHEN called by X11 6-28-18

COV Unknown w/I3L 7-6-08

CPDST Unknown 5-14-10, 3-19-16

CPDST2 Unknown 6-28-11, 7-12-11

CPI USCGC CYPRESS (WLB 210) w/HSD 6-9-09, 1-22-17

CPR unknown w/R23949, w/R23449, R24602, R26061, R23976, R26055 8-24-18 3-31-20

CR1PRI COTHEN Remote Directional Transmitter, Cedar Rapids, IA (Northeast orientation) 3-5-08, 9-13-08

CR2 COTHEN Directional Transmitter, Cedar Rapids, IA (Northwest orientation)

CR3 COTHEN Directional Transmitter, Cedar Rapids, IA (030 degrees orientation)

CR4 COTHEN Directional Transmitter, Cedar Rapids, IA (090 degrees orientation) 11-23-06

CR5 COTHEN Directional Transmitter, Cedar Rapids, IA (150 degrees orientation) 2-20-08

CR6 COTHEN Directional Transmitter, Cedar Rapids, IA (210 degrees orientation)

CR7 COTHEN Directional Transmitter, Cedar Rapids, IA (270 degrees orientation) 3-5-08

CR8 COTHEN Directional Transmitter, Cedar Rapids, IA (330 degrees orientation)

**CRB Caribbean Air and Marine Operations Center (CAMOC) Punta Salinas ANGS, Toa Baja, PR**

CBP AMOC Caribbean Regional Communications Node 11-2-04, 12-24-18

CS1 COTHEN Remote Communications Transmitter, Warm Springs, GA (ATL)

CS2 COTHEN Remote Communications Transmitter, Senatobia, TN (MEM)

CS3 COTHEN Remote Communications Transmitter, Chichasha, OK (OKO)

CS4 COTHEN Remote Communications Transmitter, Lovelock, NV (LUV)

CS5 COTHEN Remote Communications Transmitter, Concord, NC (RSH)

CS6 COTHEN Remote Communications Transmitter, Raleigh, NC (KCM)

CS7 COTHEN Remote Communications Transmitter, Agate, CO (DEN)

CS8 COTHEN Remote Communications Transmitter, Stanley, NM (ABQ)

CS9 COTHEN Remote Communications Transmitter, NC

CSK USCG COMMSTA Kodiak AK remotely controlled by COMMCOM, Chesapeake, VA 9-15-04, 2-20-20

CT1 Unknown 3-30-12

CTR unid CBP w/A61 6-9-19

CTTASMG 109th TASMG (Theatre Aviation Sustainment Maintenance Group) CT ArNG Groton-New London CT 4-27-19 2-21-20

CU9 Unknown

CWX USCGC HUDSON (WLIC 801) NCWX Miami FL w/FSS 12-9-08, 9-4-19

CXL Unknown

CYC Unknown

D## CBP P-3/Q200 Detector Units

D01 CBP DHC-8 #N801MR, Miami AMB, Homestead JARB, FL, voice call "OMAHA 1MR"

D02 CBP DHC-8 #N802MR, voice "OMAHA 2MR"  
D2C CBP another address used by D42  
D2CS CBP another address used by D42  
D03 CBP DHC-8 #N803MR  
D05 CBP DHC-8 #N805MR, Miami AMB, voice "OMAHA 5MR"  
D06 CBP DHC-8 #N806MR  
D07 CBP DHC-8 #N807MR  
D08 CBP DHC-8 #N808MR  
D23 CBP P-3B "Slick" #N423SK/BuNo 153423, Jacksonville AMB, FL, voice call "OMAHA 23SK"  
D31 CBP P-3B "Slick" #N431SK/BuNo 153431, Corpus Christi AMB, TX, voice "OMAHA 31"  
D36 CBP P-3B  
D41 CBP P-3B "Slick" #N741SK/BuNo 152741, Jacksonville AMB, FL, voice call "OMAHA 41SK"  
D42 CBP P-3 AEW&C #N142CS/BuNo 153452, Corpus Christi AMB, TX  
D43 CBP P-3 AEW&C #N143CS/BuNo 153447, Corpus Christi AMB, TX, voice call "OMAHA 3CS"  
D44 CBP P-3 AEW&C #N144CS/BuNo 153446, Corpus Christi AMB, TX, voice "OMAHA 4CS"  
D45 CBP P-3 AEW&C #N145CS/BuNo 155299, Jacksonville AMB, FL  
D46 CBP P-3 AEW&C #N146CS/BuNo 154605, Jacksonville AMB, FL, voice "OMAHA 6CS"  
D47 CBP P-3 AEW&C #N147CS/BuNo 152722, Jacksonville AMB, FL  
D48 CBP P-3 AEW&C #N148CS/BuNo 154575, Corpus Christi AMB, TX  
D49 CBP P-3 AEW&C #N149CS/BuNo 154581, Corpus Christi AMB, TX, voice "OMAHA 9CS" & "OMAHA 49"  
D69 CBP P-3B "Slick" #N769SK/BuNo 152729, Jacksonville AMB, FL, voice call "OMAHA 9SK"

D80 Unknown 1-19-18, 11-7-18

D3S poss CBP tracking acct 7-26-18 1-8-20

DAV See DAVNG  
DAVNG Iowa ArNG AASF #3 Ops, Davenport, IA w/IACST, R08096, R08814, MOBIL1 3-13-15, 3-26-20

DCK USCGC SANIBEL WPB 1312 NDCK Woods Hole MA w/GWH 3-31-09, 2-26-20

DCV USCGC Cochito WPB 87329 NDCV Little Creek, VA 12-15-18, 8-26-19

DEN CBP COTHEN Remote Communications Transmitter, Agate, CO (DEN) 2-11-11, 11-30-19  
DENPRI COTHEN Remote Communications Transmitter, Agate, CO (DEN) 4-14-09, 1-2-11

DFD Unknown

DHH USCGC MANATEE (WPB 87363) w/Z13, Z14 9-1-15, 10-3-16

DHS CBP w/T07, T58, VY1, VY2 12-8-04, 2-28-06

DIL Unknown w/ADD, CG1, J33, MCC, T72, 501, 502, VY1, VY2, FM1, FP4FEM001, FP4PFEM001, LON 8-31-05,

DIS USCGC MATINICUS (WPB 1315) 7-22-15, 7-27-15

DIT unknown USCG 6-5-12, 12-16-19

DJV USCGC Juniper WLB 201 NDJV Newport, RI USCGC 4-12-12 4-19-19

DL1 Unknown COTHEN Remote Command Console w/TSC in voice comms mentioned Unit 35 and Unit 37 w/STR, TSC, AP1, MV5 2-25-05, 3-19-09  
DL2 Unknown COTHEN Remote Command Console 4-24-15  
DL3 Unknown COTHEN Remote Command Console w/CDA, TSC 11-5-04

DNT Unknown 1-8-15

DOA USCGC Richard Dixon WPC 1113 NDOA San Juan, PR 8-14-18 1-4-20

DOB USCGC Heriberto Hernandez NDOB San Juan PR

DOC USCGC Joseph Napier NDOC San Juan PR

DOD USCGC Winslow W. Gressier NDOD San Juan PR

DOE USCGC DONALD HORSLEY (WPC 1117) w/TSC 12-10-15

DOF USCGC Joseph Tezanos WPC 1118 NDOF San Juan PR

DOG USCGC Rollin Fritch WPC 1119 NDOG Cape May, NJ 3-15-19 2-5-20

DOH USCGC Lawrence Lawson WPC 1120 NDOH Cape May, NJ 05-04-18 3-5-19

DOI USCGC John McCormick (WPC 1121) NDOI Ketchikan, Alaska 2-4-19 1-27-20

DOJ USCGC Benjamin Dailey WPC 1123 NDOJ Pascagoula, MS w/N14 11-9-16, 7-4-19

DOK Unknown 2-3-17

DOL unknown, poss USCGC Joseph Doyle WPC 1133 San Juan PR 12-18-18

DOS USCGC Tiger Shark WPB 87359 NDOS Galveston TX 2-14-18, 6-209-19

DQA unknown 11-29-19 12-19-19

DQM unid 9-27-19

DR1 Unknown COTHEN Remote Command Console w/TSC 3-15-07

DRA USCGC CHARLES SEXTON WPC 1108 NDRA Key West FL 11-30-14

DTR USCGC Daniel Tarr WPC 1136 NDTR Galveston TX w/TSC, Z18 7-9-19 2-27-20

DTS USCGC DAUNTLESS WMEC 624 NDTs Pensacola FL 12-2-09, 4-27-19

DVB USCGC KATHLEEN MOORE WPC 1109 NDVB Key West FL w/AKJ 6-7-14, 1-30-20

DVC w/Z12 11-26-18

DXP Unknown

DXT Unknown

DYT Unknown

E## Unknown

E01 Unknown w/TSC 10-17-06, 4-30-11

E03 Unknown w/LNT 4-1-08, 5-4-12

E11 Unknown w/TSC, TST 10-22-03, 9-5-06

E15 Unknown w/KVQ 4-11-08

E17 Unknown w/CS1 4-24-04, 10-8-13

E36 Unknown

E42 Unknown 4-9-08

E43 Unknown w/Z13 7-16-09

E70 Unknown w/CS9 4-29-04

E82 Unknown w/LNT 9-1-05

EAP USCGC ISAAC MAYO (WPC 1112) NEAP Key West FL w/TSC 11-22-14, 11-24-18

ECG unid 6-6-19

ECN unid w/TSC 8-8-19

EDI USCGC CUTTYHUNK (WPB 1322) NEDI Port Angeles WA w/TSC, Z30, 13Z 9-27-08, 10-30-19

EGB unid 6-30-18

EJA USCGC RAYMOND EVANS WPC 1110 NEJA Key West FL w/TSC 5-7-14, 2-5-20

EOB USCGC WAHOO (WPB 87345) NEOB Port Angeles WA 3-18-15, 1-10-20

EMY USCGC SEAHORSE (WPB 87361) 2-19-16, 11-21-17

EOT USCGC Tern WPB 87343 NEOT San Francisco, CA 10-4-18, 6-25-20

EPM USCGC HERON (WPB 87344) w/Z18 4-15-15

EPP USCGC HEALY (WAGB-20) NEPP Seattle WA, w/Gotham w/PAC, TSC, FB1 10-9-07, 9-25-19

ERH USCGC TYBEE WPB 1330 NERH Woods Hole, MA w/Z03 11-23-08, 2-17-20

EST CBP AMOC Eastern Regional Communications Node 11-4-04, 4-30-19

EUJ Unknown w/Z15 10-9-14

EUN Unknown w/LNT 4-7-15

EWR USCGC Naushon WPB 1311 NEWR Ketchikan, AK w/NOJ 12-12-19

EZX Unknown

F6E Unknown

FAASJU FAA San Juan ARTCC, PR 3-16-05, 5-4-05

FB1 Unknown w/EPP 12-5-19 1-6-20

FB2 Unknown w/EPP 12-5-19

FC1FEM FEMA WGY901 Region 1, Maynard, MA 4-21-10

FC4 FEMA WGY904 Region 4, Thomasville, GA w/034FEM 12-7-06

FC4FEM FEMA WGY904 Region 4, Thomasville, GA w/TSC 9-7-08

FDB unknown 1-21-19, 6-30-19

FM3FEM177 FEMA Region 3 (Philadelphia) w/TSC,, 8-8-19

FFS USCGC CHANDELEUR (WPB 1319) w/CWX, HSD, Z13 6-4-08, 7-14-10

FGT Unknown w/CCC 7-9-08

FL# CBP COTHEN Florida Remote Transmitters

FL1 CBP COTHEN Remote Communications Transmitter, Limestone, FL (SAR) 7-6-03, 6-7-07

FL1PRI CBP COTHEN Remote Communications Transmitter, Limestone, FL (SAR) 2-5-09

FL2 CBP COTHEN Remote Communications Transmitter, Sarasota, FL (FTM) 7-6-03, 6-1-07

FL4FEM FEMA WGY974, Florida EOC, Tallahassee, FL w/TSC 5-27-09

FLL USCG Unknown w/TSC, UCG 2-10-09

FM1 FEMA Station w/DIL during TS Ernesto 8-31-06

FMK USCGC SENECA WMEC 906 NFMK Boston MA w/Z03, UCG, J19, MUD, OPB, SNN 12-7-06, 12-17-19

FO171 Flight Operations (C(-) 1-171 AVN AASF Santa Fe NM 11-30-18

FOY USCGC SKIPJACK (WPB 87353) NFOY Galveston TX 3-14-15, 5-13-19

FP4FEM001 FEMA Station w/DIL during TS Ernesto 8-31-06  
FP4PFEM001 FEMA Station w/DIL during TS Ernesto 8-31-06

FPE USCGC MARGARET NORVELL (WPBC 1105) NFPE Miami FL w/OPB, RPM 9-15-13 1-15-20

FR4FMA FEMA Station, voice "WGY9024 Region 4, Atlanta" w/TSC 11-21-06, 11-28-06

FRE USCGC Forrest Rednour WPC 1129 San Pedro CA 5-1-18 7-21-18

FSE poss First Strike Environmental Co is a spill response contractor used by the USCG, voice call "105" w/NMH3, P38, P99, J33, MUD, MIBDOI, MR1, MR5, LB1, LB2, R00213, MV3, LB2, TSC, V09, A8K, MR9, V12, N16, TRG, VSG 4-13-11, 1-27-20

FSH USCGC PELICAN WPB 87327 NFSH Abbeville LA 11-16-14, 8-26-18  
FSH1TR--prob small boat from USCGC PELICAN 9-18-18

FTM CBP COTHEN Remote Communications Transmitter, Sarasota, FL (FTM) 3-3-10, 6-24-20  
FTMPRI CBP COTHEN Remote Communications Transmitter, Sarasota, FL (FTM) 10-1-07, 1-26-11  
FTMSEC CBP COTHEN Remote Communications Transmitter, Sarasota, FL (FTM) 9-6-07, 2-28-09

FZD Unknown

G08874 CH-47F #12-08874 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA 12-7-17 2-28-20

G29 Unknown mobile w/TSC 11-14-16

GA4FEM FEMA Station in Georgia w/TSC 8-10-08  
GA4FMA FEMA Station in Georgia w/TSC 8-1-07

GAM Unknown w/TSC 4-29-16 4-26-20

GBL USCGC OCRACOKE (WPB 1307) 10-17-08, 3-31-09

GDF USCGC Douglas Munro WHEC 724 NGDF Kodiak AK 8-17-07, 1-13-20

GEG unknown CBP COTHEN Remote Communications Transmitter 9-11-18, 2-24-20

GEI USCGC KEY LARGO (WPB 1324) 4-19-15, 5-31-18

GGBP unid Border Patrol entity w/SONBP 2-18-20

GKE Unknown 4-9-16, 12-27-18

GML USCGC ALDER (WLB 216) 3-18-13, 4-21-13

GOTHAM unid called by EPP 8-7-18

GTRTWR unid w/N17 5-18-19

GU1 USCG COTHEN transmitter Guam 6-25-18 6-20-20

GU2 USCG COTHEN transmitter Guam 6-25-18 12-17-19

GVT Unknown voice call "GOLF VICTOR TANGO" w/TSC 2-17-12

GWH Unknown (Prob USCG) w/F41, LGV 1-19-06, 2-5-06

GYS USCGC KEY BISCAYNE (WPB 1339) w/Z13, TSC, KVQ 1-24-08, 4-6-09

H10 Unknown w/D02 10-9-13

HAM USCGC Hammerhead WPB 87302 NHAM Woods Hole, MA 5-11-18

HAWK01 Unknown w/TSC 3-4-17

HD1SEC Unknown w/MEMSEC 8-14-08

HDM unknown w/TSC 11-5-19 2-10-20

HELNG Montana ArNG AASF Helena Regional Airport, Helena MT w/R23621 6-5-16

HF2 Unknown w/MV5 4-21-09

HFM CBP RCC address used when passing HF modem traffic (HFM = HF Modem) w/MR5, MV5 4-22-09, 2-16-18

HHF USCGC HOLLYHOCK (WLB 214) w/Z13 8-14-08

HIC USCGC VIGILANT WMEC 617 NHIC Cape Canaveral, FL 2-21-10, 4-27-19

HKW USCGC CONFIDENCE (WMEC 619) NHKW Cape Canaveral, FL w/JOR 9-1-07, 4-27-19

HNC USCGC Harriet Lane WMEC 903 NHNC Portsmouth VA w/92G 2-26-05, 9-16-19

HNC1 USCGC HARRIET LANE (WMEC 903) small boat 3-10-09, 6-20-09

HNL USCG COTHEN Remote Communications Transmitter, Honolulu, HI 10-30-15, 12-16-19

HP3011 Unknown w/J13 5-6-07

#### HS# Series

HS1 Unknown w/TSC 6-13-07, 10-21-09

HS2 Unknown w/HS8 6-14-07

HS4 Unknown 6-27-07

HS8 Unknown w/HS2 6-14-07

HSD USCGC DRUMMOND (WPB 1323) w/FFS, Z12, Z13, UCG, WHD 3-29-08, 8-4-11

HTC USCGC STRATTON (WMSL 752) NHTC Alameda, CA w/07F, 61G 12-3-17, 1-24-18

HV9 Unknown 1-17-15

HWK Unknown 3-14-19

HWR USCGC MIDGETT (WHEC 726) w/TSC 8-1-11, 12-8-11

#### I## CBP Interceptor Aircraft

I00 CBP CESSNA 550 #N1200N 9-15-03, 3-22-18

I01 CBP CESSNA 550 #N37201, voice "OMAHA 201" w/WST, EST, CNT 1-17-04, 7-29-15

I08 CBP CESSNA 550 #N5408G, "OMAHA 08G" w/CS6, CS3, C04, CNT, WST 7-11-03, 10-11-16

I14 CBP CESSNA 550 #N4614N, "OMAHA 14N" Tucson AMB Davis Monthan AFB AZ 3-28-18, 3-28-19

I37 CBP CESSNA 550 #N6637G 7-1-03, 12-7-17

I4J CBP CESSNA 550 #N5314J w/CNT, EST, WST 8-13-03, 10-25-18

I51 CBP Unknown 1-29-18

I62 CBP CESSNA 550 #N3262M, "OMAHA 62M" 1-29-03, 3-1-18

I75 CBP CESSNA 550 #N6775C, "OMAHA 75C" 1-29-03, 5-18-19

I76 CBP CESSNA 550 #N6776T, voice "OMAHA 76" w/CS4, CNT, WST 1-25-04, 1-29-18

IACST Iowa National Guard WMD-CST w/DAVNG 3-17-17

ICB USCGC FORWARD WMEC 911 NICB Portsmouth VA w/SALTYDOG, LGV, 35G 3-16-07, 6-22-20

ICBGE USCGC FORWARD WMEC 911 NICB Portsmouth VA w/35G 8-11-19

ICC Unknown

ICE Unknown w/702 2-26-10, 4-16-10

IGY USCG Tug PENOBSCOT BAY (WTGB 107) NIGY Bayonne NJ w/Z03,TSC 5-10-18, 9-10-18

IIW USCGC WILLOW (WLB 202) NIIW Charleston SC w/01Z, Z05, Z03 7-29-11, 8-5-15

IJD USCG Unknown 12-11-09

IKF Unknown 2-7-18

IKL USCGC TAMPA WMEC 902 NIKL Portsmouth, VA, voice "SHARK 02" w/IKL1, GBL 5-17-07, 6-22-20

IKL1 USCGC TAMPA (WMEC 902) small boat w/IKL 11-9-08, 5-18-11

ILB USCGC WILLIAM FLORES (WPC 1103) NILB Miami FL w/Z15 9-13-15, 11-9-18

ITU USCGC STEELHEAD (WPB 87324) 10-7-16

IUD USCGC BARRACUDA WPB 87301 NIUD Eureka, CA 11-20-17, 6-25-20

IVV Unknown w/LNT 5-9-18 2-19-20

J## U.S. Coast Guard MH-60T helicopters, voice "JULIET ##"

J97 Unknown w/LT2 5-15-12, 5-21-12

JAM USCGC James WMSL 754 NJAM Charleston, SC 4-27-19, 6-2-19

JDE prob USCGC Joseph Doyle NJDE San Juan PR w/TSC 12-21-18 1-29-19

JEC USCGC DORADO (WPB 87306) 6-27-13

JFB USCGC Richard Etheridge WPC 1102 NJFB Miami, FL 2-26-20

JHT USCGC LIBERTY (WPB 1334) 4-7-05

JOE CBP COTHEN Remote Communications Transmitter, IA 7-6-03, 11-14-06

JOG USCGC Joseph Gerczak WPC 1126 NJOG Honolulu, HI 9-10-18 1-3-20

JOM USCGC SEA OTTER WPB 87362 NJOM San Diego CA w/Z29 4-10-08, 2-13-20

JPJ USCGC RELIANCE (WMEC 615) NJPJ Kittery ME w/9MI, w/TSC 7-23-12, 12-2-19

JPJ1 USCGC Reliance small boat 12-2-19

JPO USCGC Jacob Poroo WPC 1125 NJPO Pascagoula, MS w/Z16, Z19 2-7-18, 1-18-20

JQA USCGC MAN-O-WAR (WPB 87330) 11-11-16

JSH USCGC Mustang WPB 1310 NJSH Seward, AK w/Z34 1-15-20

JSJ USCGC RAZORBILL WPB 87332 NJSJ Portsmouth VA 6-28-18 3-20

JTH USCGC JOSHUA APPLEBY (WLM 566) NJTH St. Petersburg, FL w/Z14 5-20-16, 2-3-20

JZP USCGC MARLIN (WPB 87304) 12-8-17

K## USCG MH-65D helos, voice "KILO ##"

KBDLNG Connecticut Army National Guard AASF, Bradley IAP, Windsor Locks, CT 1-2-19, 3-1-19

KCM CBP COTHEN Remote Communications Transmitter, Kansas City, MO 12-22-04, 12-31-18  
KCMPRI CBP COTHEN Remote Communications Transmitter, Kansas City, MO 4-8-08, 2-19-11  
KCMSEC CBP COTHEN Remote Communications Transmitter, Kansas City, MO 12-13-07, 2-14-08

KDL USCGC FRANK DREW WLM 557 NKDL Portsmouth VA w/TSC 8-25-17, 11-3-17

KGONNG 109th TASMG (Theatre Aviation Sustainment Maintenance Group) CT ArNG Groton-New London CT  
2-28-19 5-13-19

KHLN Montana ArNG AASF Helena Regional Airport w/R26135 2-1-16

KJU USCG Buoy Tender Kukui WLB 203, Sitka AK, 6-9-18 9-13-18

KNR43 NCC station, Warrenton, VA w/USDAHQ1 (USDA, not COTHEN net) 8-4-04, 11-8-04

KOD USCG COTHEN Remote Communications Transmitter, Kodiak, AK 8-13-16, 8-30-18

KODIAK1 USCG Kodiak, AK 2-25-08, 2-9-11

KRV COTHEN Vendor Fixed Antenna site Kirvin TX w/TSC 5-16-10, 3-28-20  
KRVPRI Unknown COTHEN Remote Communications Transmitter 5-15-10, 6-15-10

KST w/EST 10-27-09

KVQ USCGC NANTUCKET (WPB 1316) w/Z13, E15, LGV, LNT, GYS, UCG, OMNI 4-11-08, 1-28-16

KY4FEM FEMA WGY994, Kentucky EOC, Frankfurt, KY w/TSC 2-3-09

KYAASF KY-ARNG AASF, Frankfort, KY w/TSC 9-21-12, 9-28-12

L## USCG MH-65Cs

L02 USCG MH-65C #6602 first logged 8-14-09

L03 USCG MH-65C #6603 first logged 2-1-09

L04 USCG MH-65C #6604 first logged 5-14-09, 12-19-19

L05 USCG MH-65C #6605 first logged 5-5-09, 12-27-19

L06 USCG MH-65C #6606 w/LNT, TSC, Z12, Z13, P26 first logged 5-14-09, 1-13-20

L07 USCG MH-65C #6607 w/P16 first logged 6-16-09 12-31-19

L08 USCG MH-65C #6608 w/LNT first logged 6-1-09 1-13-20

L1126 US ArNG 1-126th AVN w/BGRNG 2-5-16

LAB COTHEN Vendor Radio Lab 1-23-03, 10-3-13

LAB1PRI 11-6-08

LAB2PRI 11-6-08

LANT1 USCG CAMSLANT Chesapeake, VA w/Z13 3-14-13

LB1 USCG Unknown MIL STD 188-110 station w/FSE 3-2-12, 4-21-12

LB2 USCG Unknown w/LT2, FSE, CPR 4-19-13, 6-6-19

LBE Unid USCG w/J12 7-26-08

LGF USCGC NORTHLAND WMEC 904 NLGV Portsmouth, VA 6-12-05, 7-19-18

LGF1 USCGC NORTHLAND (WMEC 904) small boat w/LGV 10-27-08, 2-1-09

LGH Unknown (Prob USCG) w/F41 1-19-06

LGV unknown, w/75G, Z10, 74G, 90G, TSC 9-11-18 9-19-19

LHV USCG Unknown w/F04, K33, N03, N13 2-2-06, 4-10-14

LIL USCGC BAINBRIDGE ISLAND (WPB 1343) w/LGV 1-26-06, 2-4-06

LIV Unknown w/006 4-15-15

LJW Unknown w/J41 4-11-08

LKF Unknown 5-29-14, 1-10-20

LKY USCGC EDISTO (WPB 1313) w/Z29 1-20-16

LLS Unknown w/P40 1-1-14

LNE Unknown COTHEN Remote Communications Transmitter w/TSC, J40 3-10-10, 8-7-11

LNEPRI Unknown COTHEN Remote Communications Transmitter 11-4-08, 12-10-08

LNT USCG Communications Command (COMMCOM) CAMSLANT Chesapeake, VA. First logged 6-16-04

LNTKZ2 Unid entity at USCG Communications Command (COMMCOM) CAMSLANT Chesapeake, VA, first logged 6-3-19

LNW Unknown COTHEN Remote Communications Transmitter w/D31, TSC, IKL 3-13-10, 8-7-11

LON Unknown w/DIL 2-10-08

LOS Unknown w/J38 2-16-06

LRD1 USACE LRD1 Mobile Data Receiver w/C26 9-30-05

LT2 USCG COMMCOM Remote w/001, 006, J97, J07, J01, J02, LB2, 503, 715 4-13-12, 9-19-19

LUV COTHEN Remote Communications Transmitter, Lovelock, NV (LUV) 4-14-09, 10-8-18

LUVPRI COTHEN Remote Communications Transmitter, Lovelock, NV (LUV) 11-11-08, 7-6-10

LUVSEC COTHEN Remote Communications Transmitter, Lovelock, NV (LUV) 4-7-09

LVP unknown called by CNT 6-21-18

#### M## CBP Marine Interceptor Boats

M03 CBP Interceptor Boat w/TSC 10-26-11, 4-24-18

M04 CBP Interceptor Boat w/TSC, STR 9-26-13, 4-2-15

M05 CBP Interceptor Boat 1-1-18, 2-4-18

M06 CBP Interceptor Boat, voice "MIKE 806" w/Z29 10-26-11, 1-18-15

M08 CBP Interceptor Boat w/TSC 11-22-13, 4-7-16

M09 CBP Interceptor Boat, voice "MIKE 909" w/TSC, Z10 10-25-11, 1-23-20

M42 CBP Interceptor Boat w/D03 1-12-08

M81 CBP Interceptor Boat 1-18-19 5-19-19

M82 CBP Interceptor Boat, San Diego, CA 6-12-12, 5-14-14

M84 CBP Interceptor Boat w/TSC 9-8-16

M89 CBP Interceptor Boat 10-31-14, 4-30-16

M92 CBP Interceptor Boat 5-10-12

M94 Unknown CBP Interceptor Boat 4-26-18

M96 CBP Interceptor Boat w/TSC, TSC1 5-4-12, 12-12-17

M99 CBP Interceptor Boat 4-7-16, 3-6-18

M796 CBP Interceptor Boat 2-26-19 7-3-19

M803 CBP 41-ft Coastal Interceptor Vessel 3-28-18, 9-7-18

M804 CBP 41-ft Coastal Interceptor Vessel 8-31-18 4-29-19

M810 CBP 41-ft Coastal Interceptor Vessel 6-7-19, 9-19-19

M813 CBP 41-ft Coastal Interceptor Vessel w/TSC, M815 1-19-18, 8-7-18

M814 CBP 41-ft Coastal Interceptor Vessel 5-9-19 12-7-19

M815 CBP 41-ft Coastal Interceptor Vessel 1-4-19, 1-9-20

M816 CBP 41-ft Coastal Interceptor Vessel 12-19-19

M817 CBP 41-ft Coastal Interceptor Vessel 11-5-19

M819 CBP 41-ft Coastal Interceptor Vessel 1-7-19

M820 CBP 41-ft Coastal Interceptor Vessel 8-3-18

M821 CBP 41-ft Coastal Interceptor Vessel 8-2-18

M822 CBP 41-ft Coastal Interceptor Vessel 5-7-19 9-22-19  
M824 CBP 41-ft Coastal Interceptor Vessel 12-4-19  
M829 CBP 41-ft Coastal interceptor vessel 7-11-19, 1-8-20  
M832 CBP 41-ft Coastal interceptor vessel 1-28-20  
M834 CBP 41-ft Coastal interceptor vessel 6-20-20  
M903 Unknown CBP Interceptor Boat 4-24-18  
M909 Unknown CBP Interceptor Boat 4-26-18

MAG USCGC HAMILTON WMSL 753 NMAG Charleston SC w/LNT, SB3 5-5-16, 1-4-19

MC# COTHEN Remote Communications Transmitter

MC1 COTHEN Remote Communications Transmitter 9-14-08, 2-3-10

MC2 COTHEN Remote Communications Transmitter, Chichasha, OK (OKD) 2-7-03, 11-28-07

MC3 COTHEN Remote Communications Transmitter, Logandale, NV (VGS) 12-16-02, 4-28-07

MC3PRI COTHEN Remote Communications Transmitter, Logandale, NV 8-31-07

MC3SEC COTHEN Remote Communications Transmitter, Logandale, NV 8-31-07

MC4 COTHEN Remote Communications Transmitter, Simpson, NV (RNO) 1-30-03, 5-30-07

MCC USCG Mobile Incident Command Center, "MIKE CHARLIE CHARLIE" and "CG Command Center" w/A23, DIL 8-30-05, 1-4-07

MCV3 USACE w/C10 2-11-11

MEOC01 Maine ArNG 7-30-15

MEJT01 Maine ArNG w/TSC, BGRNG, T1126, MEMAEO 7-17-15, 3-14-17

MEM CBP COTHEN Remote Communications Transmitter, Senatobia, MS 5-16-10, 12-16-19

MEMAEO Maine Emergency Management Agency Emergency Operations w/MEJ01 3-14-17

MEMPRI CBP COTHEN Remote Communications Transmitter, Senatobia, MS (MEM) 5-1-08, 12-15-193-25-19

MEMSEC CBP COTHEN Remote Communications Transmitter, Senatobia, MS (MEM) w/HD1SEC 10-13-07, 4-10-09

MES unid 12-18-18

MFCL Unknown w/N08 4-28-12

MFN USCGC KNIGHT ISLAND (WPB 1348) 10-23-08, 4-1-12

MHU USCGC BLACKTIP (WPB 87326) 6-4-09

MID USCGC Midgett WMSL 757 NMID Honolulu HI 1-21-19, 6-30-19

MIQ Unknown

MJE Unknown

MMJ USCGC SHERMAN (WHEC 720) 10-6-14, 1-16-17. Decommissioned

MOBIL1 Iowa Army National Guard mobile w/ANG02, DAVNG, TSC 4-8-15, 4-17-15

MOBNG 1-131 AVN, Alabama ArNG, Mobile AL w/R23416, R23497, R23916, R23970, R24452, R26172, R26806 11-1-14, 2-20-16

MOBOPS Alabama ArNG AASF #3 Mobile Regional Airport/Bates Field, Mobile AL 6-21-18

MP01CG USCG Unknown w/TSC 11-26-07

MP02CG USCG Unknown w/TSC 6-1-07

MQB Unknown 11-1-12

MR# CBP Marine/Vessel transmitter Sites

MR1 CBP Marine/Vessel Site, Miami FL , voice call "105A" w/CCC, CNT, TSC, TRC, FSE, APP 12-16-02, 1-30-19  
MR2 CBP Marine/Vessel Site, Port Heron MI w/TRC, RPM 11-18-03, 2-27-19  
MR5 CBP Marine/Vessel Site, San Diego CA w/TSC, HFM, PAUL, FSE, LAB 11-20-08, 2-16-18  
MR7 CBP Marine/Vessel Site, San Juan PR w/CS6 6-27-04  
MR9 CBP Marine/Vessel Sites Unknown w/TSC, FSE 9-29-17 1-31-20

MRI1 Unknown 12-16-08, 1-3-09  
MRI1PRI Unknown 12-4-08  
MRI3AN Unknown w/J03, PLT 12-4-08

MS# Land Mobile Units or COTHEN Remote Command Consoles  
MS1 CBP Unknown w/TSC 12-13-03, 2-24-10  
MS2 CBP Unknown w/TSC, CS1 7-26-03, 2-18-10  
MS3 CBP Unknown, voice call "MIKE 03" w/TSC 5-5-05, 2-16-10  
MS4 CBP Unknown w/TSC 6-20-07, 4-14-09

MS4FEM FEMA WGY964, Mississippi EOC, Jackson, MS 1-18-07

MT4 Unknown 11-13-08, 2-18-09

MUD USCGC DILIGENCE (WMEC 616) KMUD Wilmington NC w/FMK, CSR 6-10-08, 3-18-20

MUG Unknown COTHEN Remote Command Console w/MGM, CS6, CS9, EST, TSC, D41. Noted used for voice in the Caribbean between P-3s and JACKKNIFE. 6-26-03, 1-28-06

MUN USCGC Douglas Munro WHEC 724 NGDF Kodiak, AK wZ27, CSK 12-24-19, 6-19-20

MV# CBP Unknown  
MV2 CBP Unknown w/TSC, CS1, TRC, PNR400, 5HY, TSC, CRB, MC2 7-16-03, 11-14-08  
MV3 CBP Unknown, voice "MIKE VICTOR 3" w/JOE, TSC, FSE 11-14-06, 5-5-14  
MV4 CBP Unknown w/COE, TRC, TSC 2-22-09, 3-10-14  
MV5 CBP Unknown w/COE, TRC, TSC, NRT, AP1, DL1, HF2, HFM 1-23-03, 4-23-09  
MV6 CBP Unknown 10-16-08, 4-3-12  
MV7 CBP Unknown 3-5-03  
MV9 CBP Unknown w/TSC, TRC, OPB 9-30-03, 3-20-10

MV9CBP CBP Unknown w/NRT 12-22-09

MVT CBP Land Mobile Unit, voice call "205" w/BOB 8-16-03, 1-13-05

MXA Unknown 4-10-14, 3-31-15

MXB USCGC Swordfish WPB 87358 NMXB Port Angeles, WA w/TSC 11-6-16 9-14-18

N## U.S. Coast Guard HC-144As

N1148Q poss CBP acft 12-16-19

NAS USCG USCGC ESCANABA (WMEC 907) NNAS Boston MA w/RKN, NAS1, HNC, ROS, NMH, TSC F40, 01Z, 89G 4-9-06, 12-4-19

NAS1 USCG USCGC ESCANABA (WMEC 907) small boat w/RKN, NAS 11-9-07

NBR USCGC Nathan Bruckenthal WPC 1128 NNBR Atlantic Beach NC w/TSC 2-5-18, 1-6-20

NC4FMA FEMA WGY984, North Carolina EOC, Raleigh, NC w/TSC 1-24-07, 4-9-09

NCH unknown 7-4-19

NDCV WPB 87329 Cochito NDCV Little Creek, VA 12-3-18

NE7FEM FEMA WGY957, Nebraska EOC w/TSC 2-1-10

NGB USCGC BONITO (WPB 87341) NNGB Pensacola FL w/08D 3-26-15, 12-5-19

NGC USCGC SEA DRAGON (WPB 87367) Kings Bay GA w/TSC, Z11 1-28-17 2-12-20

NGH USCGC Halibut (WPB 87340) 5-6-18

HIC USCGC Vigilant WMEC 617 NHIC Cape Canaveral, FL

NIC USCGC HARRY CLAIBORNE WLM 561 NNIC Galveston TX 9-30-16, 8-14-18

NL1 Unknown

NLP Unknown 4-22-12, 10-28-13, 2-13-17

NMC USCG CAMSPAC, Point Reyes, CA w/CSK, UCG, F35, IKL 11-30-03, 3-15-09

NMH USCG Washington, DC, voice call " November Mike Hotel", w/TSC, M9Y, NMH2, NMH3, GEI, 75G 2-28-05, 2-20-20

NMH1 USCG Washington, DC w/AKJ, NMH, 75G 4-6-12, 12-17-19

NMH2 USCG Washington, DC w/NMH 12-6-13, 8-31-18

NMH3 USCG Washington, DC w/NMH, OFR, FSE, TSC, Z27 3-30-12, 06-22-20

NMH4 USCG Washington, DC w/TSC 11-20-15 2-20-20

NMH5 12-19-19 w/NMH, NMH1

NMN USCG CAMSLANT Chesapeake, VA w/CBE, PAC 6-15-05, 4-28-10

NNR USCG Unknown w/STP 3-1-05

NOJ USCG COMMDDET Kodiak, AK remotely operated by COMMCOM, Chesapeake, VA w/ATT2, ATU, SKA, STP, PAC, 05Z 7-13-04, 01-17-20

NOJ1 USCG COMMDDET Kodiak, AK 2-9-11

NOR USCGC NORTHLAND (WMEC 904) w/LGV 6-12-05, 6-14-05

NRE Unknown

NRT USCGC ACTIVE (WMEC 618) w/VM2, VY1, TSC, 719, IKL, MV5, MV9CBP 2-1-06, 12-22-09

NRW Unknown

NVP w/CNT 6-24-15

NW8 Unknown w/PAC 11-16-06

NZ1 Unknown 2-18-09

NZ4 Unknown 1-19-11, 3-19-11

NZB Unknown

OBY USCGC Oliver Berry WPC 1124 NOBY Honolulu, HI 6-28-18, 9-19-19

OFR USCGC CUSHING (WPB 1321) w/NMH3, Z15, Z14 11-15-13, 5-27-16

OHY unid w/TSC 6-23-20

OKD CBP COTHEN Remote Directional Transmitter, Chichasha, OK 7-17-12, 12-16-19

OKO CBP COTHEN Remote Omnidirectional Transmitter, Chichasha, OK 12-21-04, 12-16-19

OKOPRI CBP COTHEN Remote Omnidirectional Transmitter, Chichasha, OK 10-2-07, 7-13-10

OKOSEC CBP COTHEN Remote Omnidirectional Transmitter, Chichasha, OK 10-2-07

OMNI CBP COTHEN Remote Omnidirectional Transmitter, Cedar Rapids, IA w/LPM, KVQ 3-3-09, 5-26-17  
OMNIPRI CBP COTHEN Remote Omnidirectional Transmitter, Cedar Rapids, IA 11-11-08, 9-5-09

OPB OPBAT Service Center, Nassau, Bahamas, voice "PANTHER". Also used as a remote by HAMMER.

OPS1 USCG COTHEN Remote Command Console w/CS5, TSC 2-5-06, 5-15-14  
OPS2 USCG COTHEN Remote Command Console USCG CAMSLANT Chesapeake, VA  
OPS3 USCG COTHEN Remote Command Console

OUA USCGC SEA DOG (WPB 87373) King's Bay GA w/TSC, Z11 3-11-17, 1-2-20

OWK USCGC DEPENDABLE WMEC 626 NOWK Little Creek, VA w/92G, HNC, UCG, TSC 2-15-07, 1-1-20

OX# COTHEN Remote Directional Transmitter, Possible Cedar Rapids, IA

OX030 COTHEN Remote Directional Transmitter 8-5-17, 12-21-19

OX090 COTHEN Remote Directional Transmitter 7-21-17, 11-29-19

OX3 Unknown w/720 10-17-08, 12-11-17

OX7 Unknown 10-28-08

OX8 Unknown 9-30-08, 1-6-09

OX9 Unknown 10-23-08

OX10LNW Unknown 11-12-08

OX150 COTHEN Remote Directional Transmitter 8-26-17, 12-21-19

OX210 COTHEN Remote Directional Transmitter 12-2-17, 12-21-19

OX270 COTHEN Remote Directional Transmitter 11-20-17, 12-21-19

OX330 COTHEN Remote Directional Transmitter 8-20-17, 12-21-19

OXOMNI COTHEN Remote Directional Transmitter 9-16-17, 12-21-19

OXNLP Unknown 9-18-17, 9-22-18

OXSLP Unknown 9-11-17, 3-25-19

P## USCG Air Stations

P01 USCG Unknown COTHEN Remote Command Console w/TSC, J19, N09 3-22-07, 7-14-14

P02 USCG COTHEN Remote Command Console CGAS Clearwater FL 4-17-07, 1-16-20

P03 USCG COTHEN Remote Command Console CGAS Elizabeth City NC 4-2-08, 12-24-18

P04 USCG COTHEN Remote Command Console w/L07 6-30-10

P05 USCG Unknown COTHEN Remote Command Console w/J31 2-10-13

P06 USCG COTHEN Remote Command Console CGAS Cape Cod MA 5-21-12, 9-22-18

P07 USCG COTHEN Remote Command Console w/708, 500, N12, N02 1-3-08, 1-28-20

P08 USCG COTHEN Remote Command Console CGAS New Orleans LA 1-22-10, 3-24-10

P09 USCG Unknown COTHEN Remote Command Console w/TSC 10-5-12

P10 USCG Unknown COTHEN Remote Command Console w/J16 10-8-13

P11 USCG Unknown COTHEN Remote Command Console 7-22-16, 2-4-17

P12 USCG COTHEN Remote Command Console w/J29 4-3-12 1-23-19

P16 USCG COTHEN Remote Command Console CGAS Miami FL w/L04 8-19-08, 1-6-20

P18 USCG COTHEN Remote Command Console CGAS Sacramento CA 3-12-10, 6-7-20

P19 USCG COTHEN Remote Command Console CGAS San Diego CA 5-28-15, 11-02-18

P21 USCG COTHEN Remote Command Console ATC Mobile AL 10-20-08, 6-3-19

P22 USCG COTHEN Remote Command Console w/J06 12-30-08, 4-6-13

P23 USCG COTHEN Remote Command Console w/K88 01-01-19

P24 USCG COTHEN Remote Command Console CGAS Savannah GA 5-16-17, 10-7-17

P25 USCG COTHEN Remote Console CGAS Port Angeles WA 1-10-14, 10-24-18

P26 USCG COTHEN Remote Console CGAS Atlantic City NJ w/K60 7-2-11, 2-14-20

P27 USCG COTHEN Remote Console poss CGAS Houston TX w/ K81 11-29-199

P29 USCG COTHEN Remote Command Console w/J36 K09 10-8-16 12-18-18

P30 USCG COTHEN Remote Command Console w/K40, K74, K76 4-27-11, 2-16-18

P31 USCG COTHEN Remote Command Console Poss CGAS Detroit MI w/K60 9-18-16

P32 USCG COTHEN Remote Command Console Poss CGAS Traverse City MI w/K27, K62, J33 2-9-11, 2-7-18

P33 USCG COTHEN Remote Command Console Poss. CGAS San Francisco CA 10-24-12

P34 USCG COTHEN Remote Command Console Poss FOB Point Mugu CA 05-04-18

P35 USCG COTHEN Remote Command Console Poss CGAS Kodiak AK w/J43, J15 2-10-18, 11-3-18

P36 USCG COTHEN Remote Command Console CGAS New Orleans LA w/L05 7-19-12, 10-5-16

P38 USCG COTHEN Remote Command Console w/FSE, K72 4-13-11, 9-21-13  
P39 USCG COTHEN Remote Command Console CGAS North Bend OR 10-21-11, 3-126-19  
P40 USCG COTHEN Remote Command Console CGAS Borinquen PR w/K79, LLS 11-20-11, 6-15-15  
P44 Unknown COTHEN Remote Command Console w/D07, D02 12-14-17, 6-3-19  
P45 Unknown COTHEN Remote Command Console w/N11 12-27-17  
P46 Unknown COTHEN Remote Command Console w/D07, D08 1-24-18, 8-30-18  
P66 Unknown COTHEN Remote Command Console w/T16 4-29-19  
P99 Unknown w/FSE, STR, TSC1 7-17-15, 10-21-16

P1Z131 1-131 AVN, Alabama ArNG Dannelly Field, Montgomery AL w/R23502, R23916, R24452, R26086, R26172, R26863, R26865, R23921 7-29-15, 4-25-18

PAC USCG Remote Transmitter Point Reyes, CA remotely controlled by COMMCOM, Chesapeake, VA w/NW8, NOJ.  
First logged 6-15-04 6-30-20

PACBP CBP Unknown w/TCABP

PAL USCGC KINGFISHER WPB 87322 NPAL Mayport FL w/UCG 8-14-08, 7-16-18

PAN OPBAT Ops Center, Nassau, Bahamas w/X53 5-9-04, 6-16-04  
PANTHR OPBAT Ops Center, Nassau, Bahamas w/X61, X52, X53 4-1-04, 9-8-07

PBB USCGC BLOCK ISLAND (WPB 1344) 9-3-13, 9-10-13

PBG USCGC SHRIKE (WPB 87342) w/TSC 1-22-17

PEG USCGC BERNARD C WEBBER (WPC 1101) NPEG Miami FL 5-21-17 12-16-19

PHXNG Arizona ArNG AASF #1 Papago AAF Phoenix, AZ, voice "REDHAWK OPS" w/R23876, R24416, R26123, R26166, R26676 9-23-15, 5-1-19

PKFMH Unknown w/T1126 7-29-15

PMK USCG Unknown 1-31-11

PNR OPBAT Ops Center, Nassau, Bahamas w/C50, X53 3-5-04, 11-2-05  
PNR400 OPBAT base, Georgetown, Bahamas w/S52, MV2, CSK 1-21-04, 11-4-07

PR1 COTHEN Remote Communications Transmitter, Islote, PR  
PR1PRI COTHEN Remote Communications Transmitter, Islote, PR 3-3-09, 6-13-10  
PR1SEC COTHEN Remote Communications Transmitter, Islote, PR 12-14-08, 5-28-09

PLT Unknown w/MRI3, TSC 11-15-06, 12-4-08

PTH USCG Station Ketchikan, AK 2-8-05, 4-7-05  
PTHIGGINS USCG Ketchikan, AK 3-5-08

PVC unid, poss Providenciales w/D03 6-30-18

PWH Unknown w/719 12-9-12

QBR Unknown 11-1-12

QSP USCGC Vigorous WMEC 627 NQSP Little Creek, VA 6-26-10, 9-13-18

QW7 Unknown w/T03 8-14-08

R## Unid Air Asset voice call "RAIDER".  
R10 Unknown w/CS5, CS9, TSC 7-29-03, 11-10-04  
R11 Unknown w/CS9, TSC 3-21-04, 5-11-04  
R12 Unknown w/CS5 7-15-03, 4-14-04  
R13 Unknown voice call "RAIDER 13" w/TSC 1-17-03, 5-11-04

R14 Unknown

R16 Unknown voice call "RAIDER 16" w/R25, TSC, CS5 1-21-03, 11-7-03

R17 Unknown 8-6-04

R20 Unknown 9-20-05

R##### US Army National Guard helicopters

R00136 CH-47D #89-00136 8-19-12. NOTE Withdrawn from use 2014.

R00213 CH-47D #90-00213 "B" Coy 2-149th Avn Texas ArNG w/FSE, TSC 5-4-12

R08064 CH-47F #09-08064 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG 11-10-15, 3-7-19

R08084 CH-47F #10-08084 2-104 AVN, CT-ARNG, Windsor Locks, CT 1-7-16

R08086 CH-47F #10-08086 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA 3-26-15, 2-22-18

R08096 CH-47F #11-08096 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA w/DAV 3-21-15, 6-16-16

R08431 CH-47F #12-08431

R08714 CH-47F #04-08714 "B" Coy 3-82nd Avn 4 GSAB Ft Bragg NC 1-7-16

R08743 CH-47F #07-08743 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG 11-15-15, 6-6-19 R08784 CH-47F

#09-08784 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG 1-28-16, 2-25-19

R08787 CH-47F #09-08787 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG 1-7-16, 6-27-18

R08790 CH-47F #09-08790 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG 1-7-16, 5-8-19

R08797 CH-47F #09-08797 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA w/DAVNG 5-17-14, 12-7-17

R08812 CH-47F #10-08812 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA 3-19-15, 10-5-16

R08814 CH-47F #10-08814 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA w/DAVNG 2-20-15, 5-13-16

R08817 CH-47F #10-08817 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA 4-10-15, 6-4-19

R08818 CH-47F #10-08818 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA 10-15-16, 12-20-18

R08866 CH-47F # 12-08866 3-126th Avn Det 1 NY ArNG Rochester, NY 1-3-19

R08874 CH-47F #12-08874 "B" Coy (-) 2/211 GSAB, IA-ARNG, Davenport, IA 12-7-17

R22722 UH-60L #77-22722 Det 1 3-142nd Avn Maine ArNG Bangor ME 5-13-16

R22980 UH-60A #78-22980 Maine ARNG AASF, Bangor, ME w/BGRNG 11-14-15

R23005 UH-60A #78-23005, "A" Coy 1-189 AVN, Montana ARNG w/TSC2 10-14-16, 2-22-18

R23279 UH-60A #79-23279 w/TSC 3-15-14, 3-13-15

R23294 UH-60A #79-23294 w/TSC 5-9-14

R23328 UH-60A #79-23328 "C" Coy 1/140 AVN, WA ARNG, Gray AAF, Ft Lewis, WA 1-4-18, 3-1-18

R23337 UH-60A #79-23337 w/TSC 4-4-14

R23338 UH-60A #79-23338 7-29-15, 7-30-15

R23370 UH-60A #79-23370 2-10-16

R23416 UH-60A #80-23416 w/MOBNG 1-10-15, 1-28-16

R23427 UH-60A #80-23427 UH-60A #83-23918, "C" Coy, 1-171 AVN, New Mexico ARNG 8-26-18 6-8-19

R23449 UH-60A #80-23449 1-171 AVN, New Mexico ARNG w/ANG04, SFENG, w/CPR 8-6-15, 10-30-19

R23467 UH-60A #80-23467 Indiana ARNG w/SHBNG 2-7-16, 12-9-16

R23495 UH-60A #80-23495 w/TSC 11-14-14

R23497 UH-60A #80-23497 1-131 AVN, Alabama ARNG w/MOBNG, P1Z131 11-7-14, 05-04-18

R23502 UH-60A #80-23502 1-131 AVN, Alabama ARNG w/P1Z131, T1Z131 6-6-15, 11-19-15

R23548 UH-60A #81-23548 Indiana ARNG w/TSC, SHBNG 5-20-15, 10-14-16

R23590 UH-60A #81-23590, callsign "FURY 59", 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG 4-15-15, 12-19-18

R23595 UH-60A #81-23595, 2-285 AVN, Arizona ARNG, Papago Park AAF Phoenix, AZ 1-20-18

R23621 UH-60A #81-23621 "A" Coy 1-189 AVN, Montana ARNG w/HELNG 6-5-16

R23622 UH-60A #81-23622 Indiana ARNG w/SHBNG 12-15-15, 11-2-16

R23660 UH-60A #82-23660 w/SANNG 12-7-14, 10-25-15

R23661 UH-60A #82-23661 w/TSC, SANNG 5-7-14, 11-5-15

R23674 UH-60A #82-23674 2-104 AVN, CT-ARNG, Windsor Locks, CT w/TSC, WRLNG 3-18-15, 2-28-19

R23676 UH-60A # 82-23676 2-285 AVN, Arizona ARNG, Papago Park AAF Phoenix, AZ , 6-6-18, 9-17-18

R23684 UH-60A #82-23684, "C" Coy 5-159 AVN, Arizona ARNG, Papago Park AAF Phoenix, AZ 1-21-19

R23696 UH-60A #82-23696 w/BGRNG 5-13-16, 5-17-16

R23705 UH-60A #82-23705 w/TSC 3-8-14 NOTE: Withdrawn from use Jul 2014

R23847 UH-60A #83-23847

R23863 UH-60A #83-23863, 1-131 AVN, Alabama ARNG w/P1Z131 5-14-16

R23876 UH-60A #83-23876, 2-104 AVN, CT-ARNG, Windsor Locks, CT callsign "FURY 76" w/WRLNG, CCTMSG. 5-30-19

R23900 UH-60A #83-23900 "C" Coy 1-52nd Avn, Arizona ArNG w/REDHAWK, PHXNG 6-11-18 3-28-19

R23916 UH-60A #83-23916 w/MOBNG, T1Z131 11-2-14, 11-4-17

R23918 UH-60A #83-23918, "C" Coy, 1-171 AVN, New Mexico ARNG 11-17-17, 5-31-18

R23921 UH-60A #83-23921 1-131 AVN, Alabama ARNG w/P1Z131 10-31-14, 06-21-18

R23922 UH-60A #83-23922 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRLNG, KGONNG 4-7-16, 3-1-19  
R23944 UH-60A #83-23944 "C" Coy, 5-159 AVN, Arizona ARNG, Papago Park AAF Phoenix, AZ , voice call "Coyote-44"  
w/PHXNG & CPR 10-18-18, 10-24-18  
R23949 UH-60A #83-23949, C" Coy, 1-171 AVN, New Mexico ARNG w/SFENG, TSC CPR, 6-31-15, 12-19-19  
R23962 UH-60A #84-23962, B" Coy 1-137 AVN, Ohio ARNG 11-7-15, 2-22-18  
R23963 UH-60A #84-23963 Arizona ArNG Papago AASF, Phoenix, AZ 7-19-18, 5-13-19  
R23970 UH-60A #84-23970, "B" Coy/ 1-131 AVN, Alabama ARNG, Bates Field Mobile AL w/TSC, MOBNG 10-30-14,  
3-9-18  
R23976 UH-60A #84-23976 Arizona ARNG, Papago Park AAF Phoenix, AZ voice call "Coyote-76" w/REDHAWKTAC  
7-17-18. 1-3-18  
R23977 UH-60A #84-23977 w/SANNG 10-23-15  
R23986 UH-60A #84-23986 2-104 AVN, CT-ARNG, Windsor Locks, CT w/WRL 3-15-15, 1-22-19  
R23990 UH-60A #84-23990 "A" Coy 1-111th Avn Puerto Rico ArNG 4-11-14  
R23997 UH-60A #84-23997 1-158th Avn 6-4-15, 8-5-15  
R24003 UH-60L #84-24003 Indiana ARNG w/SHBNG 1-6-16, 6-11-16  
R24014 UH-60L #84-24014 Coy "A" 1/131st Avn AL ArNG 3-29-19  
R24022 UH-60A #84-24022, 2-104 AVN, CT-ARNG, Windsor Locks, CT voice call "FURY 11" w/WRLNG 3-18-16,  
1-22-19  
R24416 UH-60L #85-24416 2-285 AVN, Arizona ArNG w/PHXNG 11-12-15, 2-26-19  
R24419 UH-60A #85-24419 3-29-15  
  
R24421 UH-60A # 85-24421 Det 1 5-159th AVN, Arizona ArNG w/REDHWK 9-8-18  
R24449 UH-60A #85-24449, New Mexico ARNG 2-7-18, 2-15-18  
R24452 UH-60A #85-24452 w/MOBNG, P1Z131 11-20-14, 1-4-18  
R24481 UH-60L #85-24481 w/SHBNG 1-20-16, 4-13-17  
R24499 UH-60A #86-24499 Indiana ARNG w/SHBNG 4-6-16, 4-18-17  
R24527 UH-60A #86-24527 4-3-16  
R24530 UH-60A #86-24530 3-24-16, 12-12-17  
R24602 UH-60A #87-24602 "A" Coy 2-285 AVN, Arizona ARNG, Papago Park AAF Phoenix, AZ, w/CPR 5-2-18, 5-13-19  
R24640 UH-60A #87-24640 w/TSC 4-27-12  
R25 Unknown w/R16 1-21-03  
R26046 UH-60A #88-26046 Indiana ARNG w/SHBNG 12-18-15, 8-12-16  
R26055 UH-60A #88-26055, New Mexico ARNG Medevac, callsign "LOBO" w/SFENG, CPR 7-8-15, 12-13-19  
R26061 UH-60A #88-26061, New Mexico ARNG callsign "LOBO" w/SFENG 7-11-15, 2-26-19  
R26068 UH-60A #88-26068 8-30-16, 9-28-16  
R26086 UH-60A #88-26086 1-131 AVN, Alabama ARNG w/MOBNG, P1Z131 4-23-15, 9-6-18  
R26123 UH-60A #89-26123, "A" Coy 2-285 AVN, AZ-ARNG, voice "COYOTE 23" w/PHXNG 9-22-15, 9-23-15  
R26135 UH-60A #89-26135, 1-189 AVN, MT-ARNG w/KHLN 2-1-16  
R26136 UH-60A #89-26136 Coy "A" 2-285 AVN, AZ-ARNG, 8-28-18  
R26166 UH-60A #89-26166, "A" Coy 2-285 AVN, AZ-ARNG, voice "COYOTE 66" w/PHXNG 9-24-15  
R26172 UH-60A #89-26172 w/MOBNG, T1Z131 8-14-15, 3-28-19  
R26191 UH-60L #89-26191 w/TSC, BGRNG 3-14-15, 3-8-16  
R26259 UH-60L #90-26259 "A" Coy 2-3 Avn Hunter AAF GA 9-21-18  
R26320 UH-60L 91-26320 "A" Coy 2-285 AVN, AZ-ARNG w/PHXNG 05-04-18  
R26323 UH-60L #91-26323 4-14-15  
R26331 UH-60A #91-26331, 1-171 AVN, GA ARNG, Dobbins ARB  
R26337 UH-60L #91-26337 11-20-15  
R26338 UH-60L #91-26338, voice call "ALAMO 52" w/SANNG 9-2-15, 11-20-15  
R26344 UH-60L #91-26344 C" Coy, 1-171 AVN, New Mexico ARNG Sante Fe NM w/SFENG 12-4-18  
R26553 UH-60L #94-26553 w/SANNG 10-3-15  
R26620 UH-60L 3-13-20  
R26664 UH-60L #96-26664 3-5-16  
R26667 UH-60L #96-26667 10-4-19 12-19-19  
R26676 UH-60L #96-26676 w/PHXNG 10-18-16, 12-8-17  
R26668 UH-60L #96-26668 w/BGRNG 7-2-15, 6-21-16  
R26671 UH-60L #96-26671, ME-ARNG w/BGR 8-7-15, 2-12-16  
R26672 UH-60L #96-26672, ME-ARNG w/BGRNG 12-15-15, 8-19-16  
R26834 UH-60L #99-26834, 2-224 AVN, VA-ARNG w/SNDNG 10-30-15, 5-17-16  
R26835 UH-60L #99-26835, 2-224 AVN, VA-ARNG w/SNDNG 9-19-15, 12-11-15  
R26836 UH-60L #99-26836, 2-224 AVN, VA-ARNG w/SNDNG 9-12-15, 2-25-16  
R26837 UH-60L #99-26837 3-23-16  
R26839 UH-60L #99-26839, 2-224 AVN, VA-ARNG w/SNDNG 1-22-17, 2-24-17

R26844 UH-60L #99-26844, 2-224 AVN, VA-ARNG w/ANG09 6-1-15  
R26845 UH-60L #99-26845, 2-224 AVN, VA-ARNG w/SNDNG w/ANG09 6-5-15, 2-20-16  
R26846 UH-60L #99-26846, 2-224 AVN, VA-ARNG w/SNDNG 9-9-15, 5-30-17  
R26847 UH-60L #00-26847, 2-224 AVN, VA-ARNG 10-31-15, 11-7-15  
R26848 UH-60L #00-26848, 2-224 AVN, VA-ARNG w/SNDNG 10-16-15  
R26849 UH-60L #00-26849, 2-224 AVN, VA-ARNG w/SNDNG 9-18-15, 1-22-17  
R26863 UH-60L #00-26863, 1-131 AVN, AL-ARNG w/MOBNG, P1Z131 11-1-14, 5-14-16  
R26865 UH-60L #00-26865 w/T1Z131 12-11-15, 1-7-16  
R26967 UH-60L #02-26967 w/TSC 11-6-11, 8-4-12  
R26991 UH-60L #03-26991 voice call "ROMEO 991" w/TSC 10-15-11  
R64 Unknown

RAY Unknown w/CMR, STR 11-5-04, 5-19-05

RCB USCGC Eagle WIX 327 NRCB New London, CT 8-8-18

RCC159 CBP Remote Command Console 7-9-11

RCM Unknown w/Z19 2-15-18

RDC USCGC CAMPBELL WMEC 909 NRDC Kittery ME 6-27-07, 11-9-18  
RDC1 USCGC CAMPBELL (WMEC 909) small boat w/RDC 11-3-07, 5-20-08

REDHWK Arizona ArNG 2-285 AVN, Papago AASF, Phoenix, AZ w/SFENG, PHXNG, BGRNG 6-23-15, 2-26-19

REDHAWKTAC Arizona ARNG Tactical Ops Center, 2-285 AVN, Papago AAF, Phoenix, AZ

REDHWKX Arizona ArNG 2-285 AVN, Papago AASF, Phoenix, AZ 5-13-19

REDTAC Arizona ARNG Tactical Ops Center, 2-285 AVN, Papago AAF, Phoenix, AZ

REY USCG Remote Receive Transmitter, Point Reyes CA 10-30-15, 12-16-19  
REY1 Unknown w/TSC 4-12-10, 6-8-10

RIP Unknown

RIS USCGC Richard Snyder WPC 1127 NRIS Atlantic Beach NC w/HNC w/TSC 1-4-18

RKD USCGC MANTA (WPB 87320) NRKD Freeport TX 9-23-16, 3-3-20

RKG USCGC YELLOWFIN (WPB 87319) 6-2-15

RKI USCGC BLUEFIN (WPB 87318) NRKI Ft Pierce FL 1-25-10 2-24-20

RKN USCGC BEAR WMEC 901 NRKN Portsmouth VA w/H78, BAS, NAS, RKN1, TSC, LNT, FRE, NBR 4-9-06, 1-6-20  
RKN1 USCGC BEAR (WMEC 901) small boat w/RKN 10-28-07

RLS Unknown w/J04 9-18-08

RLT USCGC RESOLUTE WMEC 620 NRLT St Petersburg FL w/RLT1 4-28-09, 12-24-18  
RLT1 USCGC RESOLUTE (WMEC 620) small boat 4-28-09

RLX USCGC KATAMAI BAY (WTGB 101) 4-7-14, 5-4-17

RNO CBP COTHEN Remote Transmitter, Simpson, NV 5-1-12, 12-25-19  
RNOPRI CBP COTHEN Remote Transmitter, Simpson, NV 3-3-10

ROS COTHEN Remote Transmitter 12-14-07, 3-28-20

RPK USCGC ELM (WLB 204) NRPK Astoria OR w/APP, TSC 10-3-13, 7-11-19

RPM USCGC LEGARE WMEC 912 NRPM Portsmouth VA w/TSJ 9-10-05, 6-20-20

RS0001 Unknown w/SANNG 10-17-15

RS1 Unknown COTHEN Remote Transmitter w/TSC, PR1 12-13-08, 5-24-10

RSH CBP COTHEN Remote Communications Transmitter, Concord, NC 2-6-11, 12-3-19

RSHPRI CBP COTHEN Remote Communications Transmitter, Concord, NC 10-7-07, 2-6-11

RSHSEC CBP COTHEN Remote Communications Transmitter, Concord, NC 9-30-07, 5-19-09

RTF USCGC ACTIVE (WMEC 618) 1-26-11, 2-9-15

RTW USCGC Robert G. Ward WPC-1130 NRTW Los Angeles-Long Beach CA 7-3-18, 6-20-19

RUF USCGC MOHAWK (WMEC 913) NRUF Key West FL w/YWL, 2-26-05, 01-22-20

RUS USCGC BISCAYNE BAY (WTGB 104) w/TSC 3-8-14, 3-15-14

S## CBP Aircraft

S03 CBP UH-60A tail # 87-24641 voice call "641" w/CRB 9-29-04, 4-22-05

S08 CBP Unknown w/TSC 4-16-10, 4-22-10

S11 CBP P-3 AEW N147CS 6-27-12

S13 CBP Unknown 2-3-09, 2-7-09

S21 CBP Aircraft [definitely aircraft], based in JAX, may be UH-60 A21 w/CS5 8-24-04, 8-20-09

S22 CBP Unknown w/EST 3-27-09

S23 Unknown CBP aircraft

S26 CBP Unknown w/TSC 1-31-06, 9-3-07

SA2 Unknown w/TSC 2-3-10, 2-4-10

SA3 Unknown w/TSC, CRB, I52, LNT, voice call "OMAHA 46" 3-5-08, 5-7-19

SA5 Unknown (TISCOM id) 2-24-05

SAC USCG CGAS Sacramento w/716 8-29-09

SALOPS Poss. CSL Comalapa, San Salvador, El Salvador 3-18-15, 6-15-15

SALTYDOG CBP AMO Drug Interdiction Ops Center, PR w/ICB 3-22-13

SAMMF1 US Army Corps of Engineers Mobile, AL District Office. Possible Mobile Facility #1 w/C20 7-8-05

SAN Unknown w/SAOPS 7-31-15

SANNG US ArNG w/R23660, R23661, R23977, R26338, R26553, RS0001 12-7-14, 11-20-15

SAOPS Unknown w/SAN 7-31-15, 10-31-15

SAR CBP COTHEN Remote Communications Transmitter, Limestone, FL (SAR) 1-26-11, 6-20-20

SARPRI CBP COTHEN Remote Communications Transmitter, Limestone, FL (SAR) 12-22-07, 6-7-10

SARSEC CBP COTHEN Remote Communications Transmitter, Limestone, FL (SAR) 12-22-07, 12-4-08

SB2 Unknown w/MAG 11-6-16

SB3 Unknown w/MAG 11-6-16

SC4 FEMA WGY934, South Carolina EOC, Columbia, SC w/TSC 9-13-07

SC4FEM FEMA WGY934, South Carolina EOC, Columbia, SC w/TSC 1-29-09, 2-19-09

SC4FMA FEMA WGY934, South Carolina EOC, Columbia, SC w/TSC 12-7-06, 9-25-07

SD Unknown w/I55, I57. Maybe San Diego AMB??? 9-9-03, 6-16-04

SDA USCGC SEA LION (WPB 87352) NSDA Bellingham WA w/Z30 8-22-17 12-17-19

SEA CBP COTHEN Remote Communications Transmitter, Clinton, NC (SEA) 2-5-11, 12-21-19

SEAPRI CBP COTHEN Remote Communications Transmitter, Clinton, NC (SEA) 8-30-08, 7-14-10

SEASEC CBP COTHEN Remote Communications Transmitter, Clinton, NC (SEA) 11-28-07, 3-10-09

SEC Unknown w/TSC 1-16-10

SELF poss US Customs Great Lakes Air/Marine Branch, Selfridge ANGB MI 5-14-18 2-3-20

SELFID poss US Customs Great Lakes Air/Mrine Branch, Selfridge ANGB MI 9-4-19 12-31-19

SFENG Santa Fe Flight Operations, callsign "LOBO OPS", New Mexico ArNG AASF, Santa Fe Airport, NM w/REDHWK, R23449, R23949, R26061, R26055 6-25-15, 12-13-19

SH1 poss USCG, Eareckson Air Station, Shemya Island, AK 10-3-18

SHBNG Indiana ARNG AASF #1, Shelbyville MAP, Shelbyville, IN w/R23467, R23548, R23622, R24003, R24481, R24499, 26046 12-15-15, 2-24-17

SHEMYA USCG, Eareckson Air Station, Shemya Island, AK w/J03 (Commsta Kodiak Net ident) 10-5-11

SKA USCG Poss. Sitka, AK w/NOJ 7-17-05, 7-1-10

SLP Unknown 4-24-12, 5-6-17

SLR Unknown 4-24-12

SND CBP COTHEN Remote Communications Transmitter, NAS North Island CA 1-31-18 1-1-20

SNDNG Virginia ArNG 2-224 AVN, Richmond IAP, Sandston, VA w/R24481, R26835, R26845, R26839, R26848, R26849, R26896 9-9-15, 2-11-17

SNN USCG Unknown w/FMK 2-11-07, 2-12-07

SONBP unid Border Patrol entity 1-24-20 2-10-20

SOS USCG Unid w/717, J12, J42 9-16-05, 12-11-07

SQW Unknown w/TSC 1-16-15

SS1 CBP COTHEN Remote Communications Transmitter, Cedar Rapids, IA 1-29-08

SSRPAC USCG Remote Transmitter, Pt. Reyes, CA w/002 3-7-15, 7-29-15

SSSLP Unknown 11-23-14, 11-29-14

ST1 Unknown 1-7-07

STF USCGC STEADFAST (WMEC 623) NSTF Astoria OR 12-1-09, 12-5-19

STP USCG Loran Station, Saint Paul Island, AK w/NNR, NOJ 11-27-04, 6-21-05

STR CBP Customs National Law Enforcement Communications Center Orlando, FL VHF Land Mobile Console (SECTOR), voice call "CHARLIE 100" w/706, A10, D01, DL1, TSC, F04, J03, J14, J16, J25, J36, J41, M04, P99, I00, RAY, COE, VX1, X61 10-30-04, 10-10-15

T## CBP Tracking CBP Aircraft

T1G CBP tracker acft 1-23-20 1-30-20

T1H CBP tracker acft 11-23-19 12-25-19

T1S CBP tracker acft 2-11-20

T1Z CBP tracker acft 9-9-19

T02 CBP tracker acft 12-16-19

T03 CBP CESSNA T210N #N9403Y, voice "OMAHA 03Y" w/CNT, WST, TSC 8-12-03, 8-24-18

T08 CBP HAWKER B300C #N108F, voice "OMAHA 08F" prob Miami AMB, Holmstead ARB 6-7-15, 1-14-19

T10 CBP BEECH 350 #N610A, voice "OMAHA 10A" Calif area w/TSC 9-10-13, 12-1-19

T11 CBP BEECH A200 #N311MP, voice "OMAHA 1MP" prob New Orleans AMB w/CS6 10-17-03, 12-1-19

T14 CBP BEECH 300 #N814A, voice "OMAHA 14A" w/CNT 2-13-14, 12-6-14

T15 CBP Tracking Aircraft 1-21-19 6-22-20  
T16 CBP CESSNA T206H #N51216 Tucson AZ AMB 10-14-16 12-30-19  
T17 CBP BEECH 300 #N917A w/CRB, voice "OMAHA 17A" 8-19-14. 5-8-19  
T18 CBP CBP Beech 300C # N218Q 2-16-18 1-14-20  
T19 CBP C-206H TX area 11-7-18 12-3-18  
T24 CBP T-206H # N51824 Tucson AZ AMB 11-2-18 1-29-19  
T28 CBP tracker acft 4-29-19 1-6-20  
T31 CBP BEECH 300 #N631L w/OPB 3-16-16, 6-29-20  
T41 CBP PILATUS PC-12/45 #N541PB, voice "OMAHA 1PB" w/TSC, EST 1-22-05, 11-30-18  
T43 CBP CESSNA C206H #N3543B Southwest area w/WST 11-8-09 2-8-19  
T51 CBP N151Q Beech-350 Calif/Wash area 12-9-16 3-25-19  
T58 CBP BEECH A200 #N1558, "OMAHA 558" w/DHS, EST, CRB 2-07-03, 7-15-10  
T59 CBP BEECH A200 #N1559, voice "OMAHA 559" San Diego AMB w/WST 3-3-04, 3-26-09  
T61 CBP Beech B330C #N161V Southeast area 11-12-18 1-16-20  
T5J CBP Beech 200 N505J prob Tucson Air Branch, w/WST 2-24-15, 7-27-18  
T62 CBP Tracking Aircraft 12-24-19 6-25-20  
T5Q CBP BEECH 200 #N505Q prob Tucson Air Branch w/WST 10-3-13, 5-18-19  
T5U CBP BEECH 200 #N505U prob Tucson Air Branch w/WST 2-8-14, 3-25-19  
T61 CBP BEECH 300 #N561A 10-10-13, 7-14-18, 5-18-19  
T6A CBP BEECH 300 #N561A, voice "OMAHA 61" w/TSC, EST 3-8-13, 1-15-20  
T6V CBP CESSNA T210M #N6506V, voice "OMAHA 6V" 3-25-14, 6-25-20  
T7K 6-26-19  
T7Y CBP BEECH C-12C #N7247Y, voice "OMAHA 47Y" 1-14-04, 7-17-15  
T74 CBP C206H 11-6-18  
T79 CBP tracker acft 2-4-19 1-8-20  
T85 CBP PIPER PA-42-720R #N9085U, Jacksonville, FL AMB, "OMAHA 85U" 11-19-03, 12-2-11  
T87 CBP HAWKER B300 #N187V Calif area 1-8-15, 12-13-19  
T92 CBP HAWKER B300 #N192F Southwest area 3-18-16, 6-22-20  
T93 CBP PILATUS PC-12/45 #N593PC 2-10-08, 1-24-18  
T97 CBP PILATUS PC-12/45 #N497PC " Omaha 97" Calif area 10-7-04, 3-22-19

T1126 US Army 1st Btn, 126th Avn Reg't, 56th Troop Command North Kingstown, RI w/MEJT01, PKFMH 7-29-15, 10-14-16

T1Z131 1-131 AVN, Alabama ArNG, Dannelly Field, Birmingham AL w/R23502, R26172, R26865 7-29-15, 12-7-17

T1Z189 1-189 AVN, Montana ArNG, AASF Helena Regional Airport, Helena MT 2-1-16, 2-19-16

T2Z224 Virginia Army National Guard 2-224 AVN, Richmond IAP, Sandston, VA w/TSC 2-12-17, 4-16-17

T2Z285 Arizona ArNG 2-285 AVN, Papago Park Military Reservation Phoenix, AZ w/R23595 11-21-17, 5-13-19

TBD USCGC REEF SHARK (WPB 87371) 4-2-17, 3-29-19

TBZ USCGC ORCAS WPB 1327 NTBZ Coos Bay, OR 12-4-08, 6-8-19

TC1169 Coy "C" 1-169th Avn MD ArNG Weide AAF Aberdeen MD w/TSC 7-30-15, 8-8-15  
TC4 Unknown w/LNT, TSC 3-24-10

TCA unknown 8-21-19

TCABP poss CBP Tucson AZ w/PACBP, TSC 11-20-17, 1-17-20

TCOICE w/TSC 1-19-13, 2-6-15

TGT USCGC STURGEON (WPB 87336) w/Z17 3-26-15, 2-15-18

THA USCGC NARWHAL WPB 87335 NTHA Corona Del Mar, CA 7-21-15 8-13-18

THE USCGC Terrell Horne III WPC-1131 San Pedro CA w/TSC 7-24-18 8-13-18

TIS poss TISCOM USCG Telecommunications and Information Systems Command, Alexandria, VA 12-16-19,

12-21-19

TISCOM USCG Telecommunications and Information Systems Command, Alexandria, VA 4-15-04

TMB unknown 4-9-18 12-30-19

TMF USCGC CORMORANT WPB 87313 NTMF Ft Pierce FL 12-28-15, 1-9-20

TMV USCGC AMBERJACK (WPB 87315) 10-3-16

TNL USCGC KITTIWAKE (WPB 87316) NTNL Nawiliwili, HI 1-31-18 1-16-20

TPS Unknown w/A20 11-25-05

TR# Possible COTHEN Remote Transmitter

TR1 Unknown w/TSC 3-26-04

TR3 Unknown w/708, D42, D44, D49, TSC 3-27-04, 2-11-06

TRC CBP COTHEN Remote Command Console w/MV2, MV4, MV5, MVX, MR1, MR2, MV9, D41, 717 11-16-03, 11-5-11

TRG unknown w/FSE 3-27-19

TRK USCGC ADELIE WPB 87333 NTRK Port Angeles WA w/K00, K01 7-21-09, 5-17-19

TSC CBP Orlando, FL Customs National Law Enforcement Communications Center -- Technical Service Center and COTHEN Remote Transmitter, Orlando, FL

TSC1 poss Technical Service Center secondary, Oxford Junction IA w/TSC 5-19-14, 6-23-18

TSC2 w/TSC, R23005 8-8-15, 10-14-16

TST COTHEN Remote Communications Transmitter, NC 6-30-03

TSTPRI COTHEN Remote Communications Transmitter, NC 11-20-07

TTC CBP Unknown w/M49 12-21-05

TUG USCGC ASPEN (WLB 208) NTUG San Francisco CA 2-13-18, 3-3-20

TWX USCGC TARPON WPB 87310 NTWX St Petersburg FL 1-17-18, 6-2-19

TXJ USCGC COBIA (WPB 87311) NTXJ Woods Hole MA w/Z03 6-4-15 12-30-19

TY3 Unknown w/TSC 9-13-13

UCG USCG CAMSPAC Point Reyes, CA w/NMC, XXX, KVQ, UGW, HSD

UGW USCGC GANNET (WPB 87334) w/UCG 12-1-08, 1-23-10

UHC USCGC DECISIVE WMEC 629 NUHC Pascagoula, MS w/07Z, w/JPO 12-2-09, 1-17-20

USDADEV1 Unknown 2-12-18

USDAEOC2 USDA USDA Animal and Plant Health Inspection EOC w/TSC, USDAHQ1 1-8-04, 1-7-19

USDAHQ1 USDA KFD915, Salt Lake City, UT w/KNR43, USDAEOC2 8-4-04, 1-7-19

USF USCGC KISKA WPB 1336 NUSF Apra Harbor Guam 1-30-18 6-26-19

V## USCG /CBP Unknown

V01 Unknown w/TSC, D45 12-14-03, 7-22-04

V02 Unknown w/CS6, TSC 9-13-05

V04 Unknown w/TSC 2-18-05, 9-21-05

V05 Unknown w/TSC 9-16-05, 9-17-05  
V07 Unknown w/TSC 9-2-05, 10-15-05  
V08 Unknown w/TSC 3-10-04  
V09 Unknown w/TSC, 716, FSE 9-9-05, 11-20-17  
V10 Unknown w/PAC, WST, TSC 11-5-06, 12-5-19  
V11 Unknown 11-19-15  
V12 Unknown 9-3-08, 3-11-19  
V12A Unknown 3-27-19  
V19 Unknown 3-5-18  
V20 Unknown w/F40 2-16-06, 10-9-18  
V41 Unknown w/V42 11-16-04  
V42 Unknown w/V41 3-10-04, 11-16-04  
V43 Unknown w/CNT 8-25-09  
V44 Unknown w/TSC 9-1-05, 5-5-10  
V45 Unknown 12-20-05  
V49 Unknown 12-31-05, 10-16-07  
V61 Unknown w/C50, TSC 6-25-04, 4-4-14  
V69 Unknown w/CRB 2-19-05

VAI USCGC VALIANT (WMEC 621) 3-19-10, 9-12-15

VES USCGC VENTUROUS (WMEC 625) w/LNT, TSC, 07K, 07M, VES1, VES2 10-25-07, 2-18-20  
VES1 USCGC VENTUROUS (WMEC 625) small boat w/VES 7-2-08, 10-18-08  
VES2 USCGC VENTUROUS (WMEC 625) small boat w/VES 7-4-08, 7-5-08

VGS COTHEN Remote Communications Transmitter, Logandale, NV 9-15-09, 12-21-19  
VGSPRI COTHEN Remote Communications Transmitter, Logandale, NV 6-3-09, 6-29-10  
VGSSEC COTHEN Remote Communications Transmitter, Logandale, NV 2-18-09, 4-4-09

VIP USCGC POMPANO WPB 87339 NVIP Gulfport MS w/Z18, Z19 6-27-16, 11-21-19

VM1 Unknown w/EST, TSC 3-16-06, 3-6-14  
VM2 Unknown w/TSC, WST, NRT 2-12-06, 4-23-15

VMJ USCGC Washington WPB 1331 NVMJ Apra Harbor, Guam, 9-10-18, 2-4-19 Decommissioned Dec 2019

VSG unid 6-21-10

VX1 Unknown, voice "VICTOR XRAY 1" w/CS1, TSC 9-5-05, 6-7-11  
VX2 Unknown 7-20-06, 9-18-18  
VX3 Unknown w/TSC 1-10-06, 9-19-18  
VX5 Unknown 2-10-06, 7-1-19  
VX6 Unknown w/TSC 2-13-06, 8-31-17  
VX7 Unknown 8-29-06, 9-8-08  
VX12 Unknown 8-31-17

VY1 Unknown w/CNT, CRB, DIL, EST, JOE, NRT, TSC, WST 1-29-06, 2-25-16  
VY2 Unknown w/CNT, CRB, DHS, DIL, TSC 1-24-06, 3-27-06

W08 Unknown 8-29-05  
W20 Unknown w/LNT 8-30-05

W617CG USCGC VIGILANT (WMEC 617) w/OPB 1-23-07, 4-15-07

WBC USCGC Ibis WPB 87338 NWBC Cape May, NJ 9-17-18, 11-20-18

WBE USCGC MAPLE (WLB 207) 8-26-17, 6-2-20

WCR Unknown w/A41 8-14-08

WGD USCGC DIAMONDBACK (WPB 87370) w/TSC, UCG 12-16-08, 1-16-10

WGY1 Unknown w/TSC 11-18-08  
WGY2 Unknown 7-9-09

WHD USCGC KODIAK ISLAND (WPB 1341) w/Z13, Z09, HSD 6-13-08, 1-17-15

WJO Utah ARNG AASF, South Valley Regional Airport, West Jordan, UT 12-15-15

WLB USCG Unknown w/LNT 1-22-04, 9-29-05

WMH USCGC William C. Hart WPC-1134 NWMH Honolulu HI 2-27-19, 4-17-19

WRLNG Connecticut Army National Guard AASF, Bradley IAP, Windsor Locks, CT, voice call "FURY OPS" w/R08064, R08743, R08784, R23590, R23876, R23922, R23986, R24022 1-10-15, 3-21-19

WST CBP AMOC Western Regional Communications Node 11-5-04, 4-30-19

X## Formerly US Army UH-60L helicopters deployed to OPBAT. The Army pulled out of OPBAT 10-1-07 and were replaced by 3 DEA Bell 212s and a fixed wing aircraft.

X10 USCG HC-27J #2710 CGAS Sacramento CA

X11 USCG HC-27J #2711 CGAS Sacramento CA w/PAC, SND 11Z 7-31-18 10-4-18

X100BA Unknown 5-10-18, 6-18-19

X130BF unknown 12-4-19 1-5-20

X2C Unknown w/TSC 11-20-08, 11-22-08

XXX Unknown w/CS1, CS3, CS4, FL2, UCG, TSC 9-2-03, 2-5-06

YCQ USCGC BOUTWELL (WHEC 719) w/K18 3-16-11, 3-27-11. Decommissioned. Xferred to Philippine Navy

YNA USCGC ALLIGATOR (WPB 87372) 4-15-16, 5-29-16

YVC USCGC Mako WPB 87303 NYVC Cape May, NJ 9-13-18 6-4-20

YWL USCGC THETIS (WMEC 910) NYWL Key West FL w/J12, Z13, RUF 7-19-08, 04-28-20

YWL1 USCGC THETIS (WMEC 910) small boat w/CBE 10-15-11

Z## USCG Sector Remote Command Consoles

Z01 USCG Sector Northern New England - Portland, ME w/N13 3-30-12, 9-4-19

Z02 USCG Sector Boston - Boston, MA 3-31-12, 3-18-19

Z03 USCG Sector Southeastern New England - Woods Hole, MA 4-3-08, 2-22-20

Z04 USCG Sector Long Island - New Haven, CT 4-7-11, 9-20-18

Z05 USCG Sector New York - Staten Island, NY 9-6-12, 11-2-18

Z06 USCG Sector Delaware - Philadelphia, PA 10-8-13, 3-17-20

Z07 USCG Sector Maryland-National Capital Region MD w/42M 5-13-14, 3-17-20

Z08 USCG Sector Hampton Roads - Portsmouth, VA w/005 7-29-14, 6-25-20

Z09 USCG Sector North Carolina - Wilmington, NC w/04M, 11A, 30A, 99L, 44A, 08R, 97A 12-3-11, 2-11-20

Z10 USCG Sector Charleston - Charleston, SC w/04M, 22M, 41M, M09, LGV, ZSR, TMF 12-8-09, 1-9-20

Z11 USCG Sector Jacksonville - Jacksonville, FL w/51B 2-3-10, 2-12-20

Z12 USCG Sector Miami - Miami, FL 4-1-08, 1-5-20

Z13 USCG Sector Key West - Key West, FL 1-24-08, 2-5-20

Z13PRI USCG Sector Key West - Key West, FL, FL 6-10-09, 3-2-14

Z13SEC USCG Sector Key West - Key West, FL 1-4-09

Z14 USCG Sector St. Petersburg - St. Petersburg, FL 1-9-10, 6-30-20

Z15 USCG Sector San Juan - San Juan, PR 3-10-10, 6-3-19

Z16 USCG Sector Mobile - Mobile, AL 4-12-12, 11-27-19

Z17 USCG Sector New Orleans - New Orleans, LA 12-8-11, 6-4-20

Z18 USCG Sector Houston-Galveston - Galveston, TX 6-26-12, 12-17-19

Z19 USCG Sector Corpus Christi - Corpus Christi, TX 11-20-11, 6-20-20  
Z20 USCG Sector w/J39 4-6-12  
Z21 USCG Sector w/K68 3-4-16  
Z23 USCG Sector Detroit - Detroit, MI 3-11-12, 4-13-19  
Z24 USCG Sector poss San Juan PR w/LVS, K79, K85 4-4-14, 11-3-19  
Z25 USCG Sector w/K27, J22, 002 4-19-13, 2-19-19  
Z26 poss USCG Sector Lake Michigan w/LGV, 503, K63, 001, K79, J33, J45 10-11-13, 12-12-19  
Z27 USCG Sector San Francisco - San Francisco, CA w/NMH3, 9SA, K40, K57, MUN 12-22-12, 2-15-20  
Z28 USCG Sector Los Angeles - Los Angeles, CA w/X03 2-25-10, 12-10-19  
Z29 USCG Sector San Diego - San Diego, CA w/M06 2-7-08, 3-17-20  
Z30 USCG Sector Puget Sound - Seattle, WA 3-5-08, 5-17-19  
Z31 USCG Sector Columbia River WA 9-27-11, 4-9-19  
Z32 USCG Sector Honolulu HI w/OBY, 9BP, JOG 8-7-13, 2-19-20  
Z33 USCG Sector Guam w/USF, VMJ, 9BP, BHF, 706 1-15-14, 2-12-20  
Z34 poss USCG Sector Anchorage AK w/ROS 8-12-11, 1-15-20  
Z35 USCG Sector Juneau - Juneau, AK w/J25 8-26-11, 2-20-20  
Z37 USCG Unknown w/30A 10-20-14  
Z38 USCG CGAS Humboldt Bay - Humboldt Bay, CA w/K69, K02, 704, K56, K58 5-12-12, 12-4-19  
Z39 USCG Group North Bend - North Bend, OR w/K10, K12 9-17-11, 11-28-19  
Z58 USCG Unknown  
Z81 USCG Unknown  
Z99 USCG CAMSLANT Chesapeake, VA w/F31 4-1-08

ZNE USCGC Walnut WLB 205 NZNE Honolulu, HI 6-21-18, 9-25-19

ZPO USCGC ALEX HALEY WMEC 39, Kodiak, AK 10-12-12, 10-7-18

ZPU USCGC Chinook WPB 87308 NZPU Tybee Island, GA 8-8-18, 4-27-19

ZRG USCGC ALBACORE WPB 8730 NZRG Little Creek VA 2-3-15, 8-13-18

ZSR USCGC BELUGA WPB 87325 NZSR Little Creek VA 2-12-15, 10-15-19

ZTM USCGC SEAHAWK (WPB 87323) NZTM Carrabelle, FL 12-26-17, 10-30-18

ZVE USCGC ALERT WMEC 630 NZVE Astoria, OR 10-1-11, 1-6-20

# The Coast Guard Air Fleet

Uniquely Coast Guard. Uniquely durable and resilient.

BY [CRAIG COLLINS](#) - JANUARY 28, 2020



**An Air Station Kodiak HC-130J Super Hercules aircrew takes off from Air Station Barbers Point, Hawaii, Oct. 31, 2019.**

When the Coast Guard announced plans to add a new aircraft to its fleet in December 2018, it was big news: The service was moving from a years-long evaluation of a small unmanned aircraft system (sUAS), launched and recovered from the deck of a National Security Cutter (NSC), into a new phase in which the system would eventually be deployed aboard every Coast Guard NSC.

But the news also had a familiar ring to it, for a couple of reasons: The sUAS system, the ScanEagle, was hardly new to the service; it had performed well in evaluations dating back to 2012, when it was first deployed aboard the USCGC *Stratton*. An 8-foot-long fixed-wing craft with a range of up to 80 miles and endurance of about 20 hours, the ScanEagle is launched from the deck of a vessel by means of pneumatic catapult and lands with the aid of a tailhook.

The ScanEagle has proved a valuable asset for the Coast Guard, identifying actionable intelligence and greatly increasing the domain awareness of cutter patrols. In deployments aboard the *Stratton* from 2016 to 2018, the ScanEagle participated in at-sea interdictions that recovered more than 18,100 kilograms of contraband, with a street value in excess of \$289 million. The aircraft also provided overwatch assistance during boardings of several fishing vessels. On the heels of these successes, the Coast Guard has made the

ScanEagle a permanent feature aboard the *Stratton* and plans to outfit four NSCs per year, beginning with the cutters *James* and *Munro*, until the NSC fleet is complete in fiscal year 2021.

The ScanEagle program also offered an echo of past Coast Guard aircraft acquisitions, in that it didn't begin with a concept tailored to the Coast Guard's multi-mission posture. The ScanEagle's first and primary users were the U.S. Army, Navy, and Marine Corps; the aircraft was first deployed to perform battlefield reconnaissance during Operation Iraqi Freedom in 2004.

The same is true of many aircraft that have become iconic representations of the Coast Guard. The HC-130 Hercules turboprop airplane, the Coast Guard's long-range surveillance aircraft, began its service in 1956 as a cargo carrier for the U.S. Air Force. A newer addition to the Coast Guard's fleet of medium-range aircraft, the HC-27, was originally developed as the Joint Cargo Aircraft to provide the Army and Air Force with short-takeoff tactical transports. The MH-60 Jayhawk helicopter, the Coast Guard's medium-range recovery workhorse, is an adaptation of the helicopter that entered service in 1979 as the Army's Black Hawk and Navy's Seahawk helicopter.

Understandably, the Coast Guard, with a budget equal to just over 1.5 percent of the federal defense budget, doesn't always celebrate its reputation as the service that finds a way to do more with less. According to Capt. Tom MacDonald, who helps lead aviation acquisitions as the assistant program executive officer for aviation, the Coast Guard isn't typically the service that sits down with a contractor, writes out its requirements on a whiteboard, and then receives an aircraft tailor-made for its 11 statutory missions – but there's no denying the service's knack for innovating solutions uniquely suited to its needs. “We're very good,” MacDonald said, “at taking DOD [Department of Defense] platforms and adapting them to our mission set.”

As Adm. Karl Schultz, commandant of the Coast Guard, pointed out in his first State of the Coast Guard address, it's a skill set that has been increasingly put to the test, as intensifying global complexities have upped the demand for Coast Guard services while its acquisition budget has remained mostly stagnant.

“Coast Guard men and women are doing more and more, in increasingly complex and dangerous environments, with aging platforms and infrastructure,” Schultz said. Still, he remained optimistic that the service “will remain strong, adaptive, and resilient to the challenges ahead.”

The people who tend the service's air fleet share this optimism, and have applied uniquely Coast Guard ways of thinking to both improve and extend the performance of air assets, in many cases transforming 20th century platforms into cutting-edge aircraft that will serve the Coast Guard well into the 2030s.

## **“MISSIONIZING” THE FIXED-WING FLEET**

In aviation, one of the clearest examples of a 20th century technology in need of updating is radar – specifically, as a tool for air traffic surveillance. With radar, a ship or plane's identifying signature is often no more specific than a blip on a screen, and this lack of precision adds to the time and effort it takes for patrol aircraft to identify nearby ships or aircraft, basically by flying close enough to make visual or radio contact. Coast Guard airplanes – like all U.S. aircraft – are in the process of transitioning to a newer surveillance technology called Automatic Dependent Surveillance-Broadcast (ADS-B), in which an aircraft determines its position via GPS satellite and periodically broadcasts its digital signature, enabling it to be tracked through

the airspace. The Federal Aviation Administration has required that all aircraft operating in controlled U.S. airspace be equipped with ADS-B Out (i.e., equipped to transmit their signature, if not receive those of other aircraft).

The Coast Guard is updating all of its aircraft to communicate via these digital signatures, just one feature that will allow aircrews to communicate and work more seamlessly with a growing number of government and international partners over a wider area. The ability to communicate and share a common operating picture, in real time, is probably the most significant factor distinguishing the Coast Guard's 21st-century air fleet from previous generations.

Each of the Coast Guard's fixed-wing aircraft is undergoing a suite of modifications and updates that includes the installation of a "missionization" hardware and software package. Jointly developed with the U.S. Navy, this missionization package, called Minotaur, integrates inputs and outputs of the aircraft's sensors and suite of command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) components. Used across multiple platforms operated by the Departments of Defense and Homeland Security, Minotaur allows partners to share a common operating picture as data – aircraft and ship identifying signatures, multi-mode radar signals and electro-optical/infrared (EO/IR) imagery – are collected and shared in real time, allowing operators to identify targets for search and rescue, law enforcement, and intelligence-gathering missions.

A simpler way to think about missionization, MacDonald said, is to understand that each of the service's airplanes comes to the Coast Guard as a sturdy, reliable aircraft capable of flying for a long time in an austere environment – but it's not yet a Coast Guard asset. "What we need them to be able to do," he said, "is operate in a maritime environment, and primarily in the search and rescue and law enforcement roles. We obviously use them for other things as well, but for the most part, imagine we're flying over a big ocean and we need to be able to see what is out there, or find something ... take that information in and then send it out, either to our surface assets or shore-based command center. Those capabilities add up to what we, in a general sense, call missionization."

Here's a brief look at what's happening with each of the Coast Guard's airplanes:

***THE HC-130 HERCULES. THE COAST GUARD RECEIVED ITS FIRST C-130 – THE AIRCRAFT WITH THE LONGEST CONTINUOUS PRODUCTION OF ANY MILITARY AIRCRAFT IN HISTORY, WITH MORE THAN 40 MODELS AND VARIANTS IN SERVICE AROUND THE WORLD – IN 1959. IT PERFORMS LONG-RANGE SEARCH AND RESCUE, DRUG INTERDICTION, ILLEGAL MIGRANT PATROLS, AND COMMAND AND CONTROL FUNCTIONS.***



**An Air Station Kodiak HC-130J Super Hercules aircrew takes off from Air Station Barbers Point, Hawaii, Oct. 31, 2019.**

The service is in the process of retiring its older HC-130H turboprop aircraft – a version that first flew in 1964 – and acquiring new aircraft that will be missionized into HC-130Js, or “Super Hercules.” The C-130J has more advanced engines, propellers, and digital avionics, and increases the range of the aircraft by 40 percent and its top speed by 15 percent, while decreasing its takeoff distance by 15 percent. The Coast Guard’s unique version of the C-130J is the first in the world to feature a 360-degree surface-search radar.



A Coast Guard Air Station Cape Cod HC-144 Ocean Sentry aircraft flies over Fort Adams, May 8, 2018, in Newport, Rhode Island

***THE HC-144 OCEAN SENTRY. THE COAST GUARD'S MEDIUM-RANGE SURVEILLANCE FLEET INCLUDES 18 OCEAN SENTRIES, USED SINCE 2009 FOR SEARCH AND RESCUE, PATROL, AND TRANSPORT MISSIONS. IN 2014, THE COAST GUARD BEGAN A PROGRAM CALLED OCEAN SENTRY REFRESH, TO UPDATE THE AIRCRAFT'S OBSOLETE COCKPIT AVIONICS SUITE: THE ELECTRONICS THAT INCLUDE THE DIGITAL DISPLAYS AND COMPUTERIZED FLIGHT-CONTROL, NAVIGATION, WARNING, FUEL, AND MONITORING SYSTEMS.***

The HC-144A's legacy missionization system, mostly located on a pallet in the aircraft cargo bay, was also in need of replacement. "Fitting the Minotaur system in the back of this 144, and Ocean Sentry Refresh in the front of the aircraft, together makes what we call our HC-144B model, our Bravo model," said MacDonald. The Coast Guard converted its sixth HC-144B aircraft in October 2019.



A Coast Guard C-27J aircrew, assigned to Coast Guard Air Station Sacramento, flies along the California coastline during area familiarization training, Feb. 6, 2018.

***THE C-27 SPARTAN. THE COAST GUARD'S ORIGINAL ACQUISITION PLAN CALLED FOR A FLEET OF 36 OCEAN SENTRIES, BUT CONGRESS, IN THE NATIONAL DEFENSE AUTHORIZATION ACT OF 2014, DIRECTED THE SERVICE TO STOP CONTRACTING FOR HC-144S AND INSTEAD ACQUIRE AND MISSIONIZE 14 C-27 SPARTAN AIRCRAFT, TO BE TRANSFERRED FROM THE U.S. AIR FORCE. THE OCEAN SENTRY AND THE SPARTAN ARE SIMILARLY CONFIGURED TWIN-ENGINE TURBOPROPS, AND WILL PERFORM SIMILAR ROLES.***

The C-27s coming into the Coast Guard will require extensive missionization work to allow them to more efficiently complete their primary missions and make them interoperable with other service assets. This work – which will transform the aircraft into HC-27J Coast Guard aircraft – is not yet completed. Six C-27s are now flying out of Air Station Sacramento, said MacDonald, but they are in a baseline configuration. “The missionization process is an extensive modification,” he said, “and requires a significant amount of engineering work to design it, install it, and make sure it is airworthy.”

**The Dolphin and the Jayhawk**

Coast Guard helicopters are probably the most iconic of the service's air assets, often seen on the news or in the television show *Coast Guard Alaska*, hoisting people from the sea or from rooftops. Like all the service's aviation assets, they're worked hard and flown for long hours. Both Coast Guard helicopters – the H-65 Dolphin and the H-60 Jayhawk – have been around a long time and have undergone a series of updates and overhauls.

**The MH-65 Dolphin.** Normally stationed ashore, Dolphins are also the primary aircraft flown from the decks of medium- and high-endurance cutters, making them valuable assets for search and rescue, law enforcement, and surveillance. The Coast Guard currently operates a fleet of 98 MH-65 helicopters, which are undergoing an avionics upgrade that will transform them into the “Echo” version, the MH-65E. The H-65A, the “Alpha” version of the helicopter, first flew for the Coast Guard in 1985.



An MH-65 Dolphin helicopter crew from Coast Guard Sector Humboldt Bay conducts hoist training off the coast of Trinidad Head, Jan. 15, 2009.

According to Cmdr. Mike Brimblecom, MH-65E platform manager for the Coast Guard's Office of Aviation Forces, this upgrade is more than an incremental step into the future for the Dolphin. "Ever since the Alpha model," he said, "all of our gauges are what we call steam gauges – the classic needle-over-the-dial, an actual gauge, where you tap the glass to see if it's working, that type of deal. All of that has been replaced with modern glass cockpits." The Dolphin Echo will have a "glass cockpit" – four multifunctional displays that can show crew members a variety of information.

The Coast Guard began its low-rate initial production of the MH-65E in December 2018.

In addition to these avionics upgrades, the Dolphin is undergoing its second service life extension program (SLEP), this time enabling a helicopter that has flown 20,000 hours to fly for an unprecedented total 30,000 hours. The Dolphin's SLEP replaces five major structural components: the nine-degree frame, canopy, center console floor assembly, floorboards, and side panels.

**The MH-60 Jayhawk.** The first of these medium-range recovery helicopters began service in the Coast Guard in 1990, aircraft designated as HH-60Js. Coast Guard Jayhawks began an upgrade and conversion program about a decade ago, and those improvements, completed in 2015, have transformed the entire fleet – now a total of 45 operational helicopters – into MH-60Ts. The MH-60T is designed to fly a crew of four up to 300 miles offshore, hoist up to six additional people on board while remaining on-scene for up to 45 minutes, and return to base while maintaining an adequate fuel reserve.



A U.S. Coast Guard MH-60T Jayhawk lands aboard the U.S. Navy destroyer USS Kidd during Exercise Northern Edge 2019.

The conversion program introduced a number of capabilities similar to the Dolphin's Echo upgrade, according to Lt. Cmdr. Brooks Crawford, the MH-60 platform manager for the Office of Aviation Services: a glass cockpit, GPS area navigation, upgraded radios, new sensors, terrain-mapping radar, and a more capable, night-vision-compatible searchlight. Equally important, Crawford said, were a number of structural modifications to the HH-60Js, which were nearing the end of their 10,000-hour service lives. "We bought ourselves another 10,000 hours of life," he said. "Now our current fleet can go to 20,000 hours."

Unlike the other services, the Coast Guard, through its Aviation Logistics Center in Elizabeth City, North Carolina, is in charge of certifying the airworthiness of its own air vehicles. Coast Guard MH-60Ts all have been certified airworthy up to 20,000 hours, Crawford said, "But it turns out we fly the heck out of our aircraft." The Jayhawks have flown an average of 16,000 hours each, a fact that leads to the unavoidable question: What happens when they get to 20,000?

When the service began considering additional options for service life extension, Crawford said, it began discussions with the manufacturer, Sikorsky, to determine which parts might need replacement as the aircraft neared 20,000 hours. "We found out we don't actually know," Crawford said. "No one has gone beyond 20,000 hours before. ... It's a significant engineering effort, to figure out what to replace, because we don't know what's going to be replaced, and we don't know what it is going to cost – and by the way, the people who made a lot of those parts don't make them anymore."

The service found another solution, which it had used to replace a pair of Jayhawks lost to crashes several years ago: converting Navy Seahawk helicopters. According to Crawford, the service now operates six Jayhawks converted from Navy hulls that had flown between 4,000 and 11,000 hours. Each conversion, said Crawford, costs about \$12 million, compared to the \$40 million price tag for a new H-60. "It's a fraction of the price of a new one," Crawford said. "This is currently our preferred option for sustaining the Jayhawk fleet."

The Jayhawk's Navy conversion program and the Dolphin's 30,000-hour SLEP will take each aircraft into the late 2030s – and then it likely will be time for new rotary-wing platforms. What those platforms will look like, said MacDonald, will be determined primarily by the largest government buyer of helicopters: the Department of Defense, which recently launched discussions about what a Future Vertical Lift "family of systems" – rotary-wing craft that can fly faster, farther, and with seamless interoperability – will look like. "We're ensuring we are at the table with DOD, and that they understand our requirements," said MacDonald. "Are we going to be the big voice at the table that drives those requirements? My opinion is that we will be there to get everyone talking about the things we need – but the overall speed and range the DOD offers, what they will ultimately want, will rule the day."

That will be nothing new. But by the time those Future Vertical Lift offerings have entered service in the Coast Guard, they will be – like all the service's aircraft – unique, multi-mission assets, ready to serve for decades to come.

# USCG Aircraft Assets as of Jun 2020

Tail	Type	Homeplate	Last Log
101	C-37A	CGAS Washington, D.C.	07-06-19
202	C-37B	CGAS Washington, D.C.	07-22-19
1503	HC-130H	CGAS Clearwater	06-02-19
1701	HC-130H7	CGAS Kodiak	12-16-19
1702	HC-130H7	CGAS Clearwater	06-21-20
1703	HC-130H7	CGAS Barbers Point	12-25-19
1704	HC-130H7	CGAS Clearwater	06-24-20
1706	HC-130H7	CGAS Kodiak AK	11-29-19
1707	HC-130H7	CGAS Barbers Point	12-22-18
1709	HC-130H7	CGAS Kodiak	05-13-17
1711	HC-130H7	CGAS Clearwater	01-08-20
1712	HC-130H7	CGAS Kodiak	06-02-19
1713	HC-130H7	CGAS Kodiak	12-16-19
1714	HC-130H7	CGAS Kodiak	01-08-20
1715	HC-130H7	CGAS Clearwater	08-16-18
1716	HC-130H7	CGAS Barbers Point	10-21-18
1718	HC-130H7	CGAS Clearwater	06-30-20
1720	HC-130H7	CGAS Barbers Point	01-08-20
1790	HC-130H7	CGAS Kodiak	12-21-18
2001	HC-130J	CGAS Elizabeth City	05-27-20
2002	HC-130J	CGAS Kodiak AK	07-30-19
2003	HC-130J	CGAS Elizabeth City	01-19-20
2004	HC-130J	CGAS Elizabeth City	01-06-20
2005	HC-130J	CGAS Elizabeth City	12-08-19
2006	HC-130J	CGAS Kodiak AK	12-07-19
2007	HC-130J	CGAS Elizabeth City	06-25-20
2008	HC-130J	CGAS Elizabeth City	06-14-20
2009	HC-130J	CGAS Kodiak AK	01-16-20
2010	HC-130J	CGAS Kodiak AK	03-19-20
2011	HC-130J	CGAS Kodiak AK	01-13-20
2012	HC-130J	CGAS Elizabeth City	05-27-20
2013	HC-130J	Delivered	04-10-19
2014	HC-130J	To be delivered	
2015	HC-130J	To be delivered	
2016	HC-130J	To be delivered	
2301	HC-144B	CGAS Corpus Christi	06-21-20
2302	HC-144B	CGAS Miami	01-16-20
2303	HC-144B	CGAS Cape Cod	06-22-20
2304	HC-144B	CGAS Miami	06-10-19
2305	HC-144B	ATC Mobile	01-14-20
2306	HC-144B	ATC Mobile	06-23-20
2307	HC-144B	ATC Mobile	12-14-19
2308	HC-144B	CGAS Corpus Christi	06-23-20
2309	HC-144A	CGAS Cape Cod	12-19-19
2310	HC-144A	CGAS Miami	11-30-19
2311	HC-144A	CGAS Miami	11-30-19
2312	HC-144A	CGAS Cape Cod	06-22-20
2313	HC-144A	CGAS Cape Cod	02-20-20
2314	HC-144A	CGAS Cape Cod	06-23-20
2315	HC-144A	CGAS Corpus Christi	12-23-17
2316	HC-144A	CGAS Cape Cod	01-17-20

2317	HC-144B	CGAS Cape Cod	06-25-20
2318	HC-144A	ATC Mobile	06-23-20
2701	HC-27J	CGAS Elizabeth City	09-22-19
2702	HC-27J	CGAS Elizabeth City	05-27-20
2703	HC-27J	CGAS Sacramento	06-24-20
2704	HC-27J	CGAS Elizabeth City	06-25-20
2705	HC-27J	CGAS Elizabeth City	06-25-20
2706	HC-27J	CGAS Sacramento	06-30-20
2707	HC-27J	CGAS Sacramento	02-27-17
2708	HC-27J	CGAS Sacramento	06-26-20
2709	HC-27J	CGAS Sacramento	06-20-20
2710	HC-27J	CGAS Sacramento	03-19-19
2711	HC-27J	CGAS Sacramento	12-13-19
2712	HC-27J	CGAS Elizabeth City	06-27-17
2713	HC-27J	CGAS Sacramento	12-13-19
2714	HC-27J	CGAS Sacramento	12-16-19
2717	HC-27J	CGAS Kodiak AK	12-04-19
2718	HC-27J		06-06-18
6001	MH-60T	East/Gulf Coast	12-13-19
6002	MH-60T	CGAS Astoria	09-15-18
6003	MH-60T	CGAS Astoria	08-12-19
6004	MH-60T	CGAS Kodiak	12-16-19
6005	MH-60T	CGAS Kodiak	06-25-20
6006	MH-60T	Mid Atlantic	09-05-19
6007	MH-60T	CGAS Clearwater	06-24-20
6008	MH-60T	CGAS Astoria	09-14-19
6009	MH-60T	East Coast	06-23-20
6010	MH-60T	CGAS Astoria	06-29-20
6011	MH-60T	CGAS Kodiak	12-30-19
6012	MH-60T	CGAS Clearwater	06-25-20
6013	MH-60T	ATC Mobile	06-23-20
6014	MH-60T	CGAS San Diego	12-13-19
6015	MH-60T	CGAS Sitka AK	12-1-19
6016	MH-60T	ATC Mobile	01-09-20
6018	MH-60T	CGAS Clearwater	12-03-19
6019	MH-60T	CGAS Clearwater	01-29-20
6021	MH-60T	CGAS Kodiak	12-30-19
6022	MH-60T	CGAS Traverse City	06-25-20
6023	MH-60T	CGAS San Diego	10-20-18
6024	MH-60T	CGAS Elizabeth City	05-22-20
6025	MH-60T	CGAS Sitka AK	01-12-20
6026	MH-60T	CGAS Astoria	12-13-19
6027	MH-60T	CGAS Clearwater	06-25-20
6029	MH-60T	CGAS San Diego	06-18-18
6030	MH-60T	CGAS Kodiak AK	12-16-19
6031	MH-60T	CGAS Clearwater	02-05-20
6032	MH-60T	CGAS Cape Cod	06-21-20
6033	MH-60T	CGAS Traverse City MI	06-22-20
6034	MH-60T	CGAS Cape Cod	02-17-20
6035	MH-60T	CGAS Astoria	06-28-17
6036	MH-60T	CGAS Sitka AK	12-17-19
6037	MH-60T	East Coast	12-22-18
6038	MH-60T	CGAS Kodiak AK	12-12-19
6039	MH-60T	CGAS Cape Cod	05-28-20
6040	MH-60T	CGAS Elizabeth City	06-19-20
6041	MH-60T	CGAS San Diego	12-12-19
6042	MH-60T	CGAS Cape Cod	02-17-20
6043	MH-60T	CGAS Clearwater	01-29-20
6044	MH-60T	CGAS Clearwater	01-08-20
6045	MH-60T	CGAS Traverse City	06-23-20
6046	MH-60T	CGAS Clearwater	06-25-20
6047	MH-60T	CGAS Clearwater	06-23-20

6048	MH-60T	CGAS Traverse City	12-15-19
6501	MH-65D	CGAS North Bend	01-14-20
6502	MH-65D	CGAS Humboldt Bay	09-14-18
6503	MH-65D	CGAS Houston	01-02-20
6504	MH-65D	CGAS North Bend	01-04-20
6506	MH-65D	HITRON Jacksonville	04-07-17
6507	MH-65E	ALC Elizabeth City NC	01-01-20
6508	MH-65D	CGAS Humboldt Bay	01-06-20
6509	MH-65D	CGAS Atlantic City	04-30-19
6510	MH-65D	CGAS San Francisco	12-19-19
6511	MH-65D	CGAS San Francisco	10-15-19
6512	MH-65D	CGAS North Bend	12-16-19
6513	MH-65D	HITRON Jacksonville	02-09-18
6514	MH-65E	ALC Elizabeth City	12-01-19
6515	MH-65D	CGAS San Francisco	06-23-16
6516	MH-65D	CGAS Savannah	06-02-19
6517	MH-65D	Unknown	01-19-18
6518	MH-65D	CGAS Houston	12-11-19
6519	MH-65D	East Coast	07-26-18
6520	MH-65D	CGAS Houston	01-06-20
6521	MH-65D	CGAS Port Angeles	12-30-19
6522	MH-65D	ALC Elizabeth City	11-21-19
6524	MH-65D	East Coast	03-25-19
6525	MH-65D	CGAS Corpus Christi	12-04-18
6526	MH-65D	CGAS Savannah	03-25-19
6527	MH-65D	CGAS Atlantic City	02-11-20
6528	MH-65D	CGAS Barbers Point	05-04-19
6529	MH-65D	CGAS Barbers Point	12-17-18
6530	MH-65D	CGAS Borinquen	06-19-19
6531	MH-65D	CGAS Savannah	12-16-19
6532	MH-65D	CGAS Kodiak	01-13-20
6533	MH-65D	CGAS New Orleans	02-01-18
6534	MH-65D	CGAS Atlantic City	07-12-19
6536	MH-65D	CGAS Port Angeles	12-11-19
6537	MH-65D	CGAS North Bend	06-22-18
6538	MH-65D	CGAS New Orleans	12-07-19
6539	MH-65D	CGAS Corpus Christi	12-17-18
6540	MH-65D	West Coast	12-13-19
6542	MH-65D	CGAS Miami	12-13-19
6543	MH-65D	CGAS San Francisco	01-22-20
6544	MH-65D	CGAS Savannah	03-25-19
6545	MH-65D	CGAS San Francisco	02-20-20
6547	MH-65D	CGAS Savannah	05-17-20
6548	MH-65D	HITRON Jacksonville	12-11-19
6550	MH-65D	East Coast	06-23-20
6551	MH-65D	HITRON Jacksonville	03-25-19
6552	MH-65D	CGAS Corpus Christi	01-08-20
6553	MH-65D	CGAS Atlantic City	02-10-20
6554	MH-65D	CGAS North Bend OR	01-24-20
6555	MH-65D	Unknown	03-06-18
6556	MH-65E	CGAS Atlantic City	12-19-19
6557	MH-65D	CGAS San Francisco	09-25-19
6558	MH-65D	CGAS Borinquen PR	01-05-20
6559	MH-65D	CGAS North Bend	02-13-18
6560	MH-65D	CGAS Atlantic City	01-22-20
6561	MH-65D	CGAS Humboldt Bay	12-27-19
6562	MH-65D	poss CGAS Miami	02-05-20
6563	MH-65D	CGAS Atlantic City	01-22-20
6564	MH-65D	poss West Coast	10-25-18
6565	MH-65D	CGAS Humboldt Bay CA	12-04-19
6566	MH-65D	CGAS Atlantic City	05-17-20
6567	MH-65D	CGAS Savannah	03-25-19

6568	MH-65D	CGAS Atlantic City	01-22-20
6569	MH-65D	CGAS Borinquen	05-04-18
6570	MH-65D	CGAS Borinquen	05-09-19
6571	MH-65D	CGAS Atlantic City	01-30-18
6572	MH-65D	CGAS Borinquen	06-26-20
6573	MH-65D	CGAS Borinquen	01-14-20
6574	MH-65D	CGAS North Bend	02-16-18
6575	MH-65D	CGAS Atlantic City	06-25-20
6576	MH-65D	CGAS New Orleans	12-21-18
6577	MH-65D	CGAS Atlantic City	11-15-18
6578	MH-65D	CGAS Atlantic City	06-20-20
6579	MH-65D	CGAS Atlantic City	02-20-20
6580	MH-65D	CGAS Atlantic City	05-23-20
6581	MH-65D	CGAS Houston	12-27-19
6582	MH-65D	CGAS Atlantic City	12-31-19
6583	MH-65D	ATC Mobile	01-14-20
6584	MH-65D	CGAS Atlantic City	03-20-20
6585	MH-65D	CGAS Borinquen	02-01-18
6586	MH-65D	CGAS San Francisco	11-22-19
6587	MH-65E	ATC Mobile	02-15-18
6588	MH-65D	CGAS Atlantic City	12-27-19
6589	MH-65D	CGAS Kodiak AK	01-03-20
6590	MH-65D	CGAS Kodiak AK	01-13-20
6591	MH-65D	ATC Mobile	01-08-20
6592	MH-65D	CGAS New Orleans	02-16-18
6593	MH-65E	ALC Elizabeth City NC	12-16-19
6594	MH-65E	CGAS Elizabeth City NC	06-19-20
6595	MH-65D	FOB Point Mugu CA	12-15-19
6596	MH-65D	CGAS Kodiak	12-12-19
6597	MH-65D	CGAS Houston	10-24-19
6598	MH-65D	CGAS Atlantic City	03-25-19
6599	MH-65D	East Coast	12-16-19
6601	MH-65D	ALC Elizabeth City	08-14-09
6602	MH-65D	Unknown	08-21-16
6603	MH-65D	Unknown	02-21-19
6604	MH-65D	CGAS San Francisco	01-21-20
6605	MH-65D	CGAS Atlantic City	01-15-20
6606	MH-65D	CGAS Humboldt Bay	07-26-18
6607	MH-65D	FOB Point Mugu CA	02-14-18
6608	MH-65D	CGAS Barbers Point	08-16-18

## **USCG Air Asset Guide**

### **HC-130 Long Range Search Aircraft**

(USCG fact file)

Range: 4100 (H), 5500 (J) NM

Endurance: 14 (H), 21(J) Hours

Crew: 2 (O), 5 (E)

HC-130 aircraft provide long-range air coverage over the entire Coast Guard area of responsibility. The primary role of these aircraft is to meet the long range maritime patrol requirements that cannot be accomplished by the medium range surveillance (MRS) CASA aircraft.

When the modernization and recapitalization project is complete, the LRS fleet will include a total of 22 fully missionized HC-130Js and some upgraded HC-130Hs with new center wing boxes.

The Coast Guard is improving the material condition and capability of 16 legacy HC-130H aircraft. New (SELEX) active electronically scanned array radar is replacing the APS-137 radar. The new radar is more reliable and capable than the

legacy system. The aircraft will also receive new DF-430 direction-finding radio equipment. The new direction finder will use the international standard 406MHz distress beacon technology. Later modernization projects will include upgrades to the aircraft obsolete avionics and cockpit display suites as well as structural enhancements to extend the operational lives of the aircraft.

The HC-130H fleet is equipped with a Forward-Looking Infrared/Electro-Optical/Low-Light TV (FLIR/EO/LLTV) turret-mounted camera system. This system provides a 360-degree field-of-view and high-resolution software magnification allowing use at standoff ranges. In addition, a DAMA-compatible MILSATCOM receiver is installed. The FLIR/EO/LLTV interfaces with the HC-130H's radar, allowing automatic direction of the FLIR system, reducing the operator workload for the tactical sensor operator.

The first missionized HC-130J was delivered on January 24, 2008. HC-130J modifications include: the proven multimode EDO EL/M 2022A(V)3 maritime surface search radar, mounted beneath the plane's fuselage, and a nose-mounted APN-241 weather radar, the electro-optical/infrared- FLIR Systems Star Safire III, DF- 430 UHF/VHF Direction Finder System, and SAAB Transponder Tech AB R4A Airborne Automatic Identification System (AIS).

Three HC-130J's were ordered in 2012 for delivery in 2016 at a cost of \$218 million. Two more were ordered in 2014 for delivery by 2017.

## **HC-144A/B Ocean Sentry Medium Range Search Aircraft**

---

(USCG fact file)

Speed: 236 kts

Range: Up to 1,500-2,300 NM

Endurance: 10 Hours

Crew: 5

Sensors: ISAR Radar, EO/IR, AIS equipped

Quantity: 18

This fixed-wing turbo prop aircraft provides invaluable on-scene loitering capabilities and perform various missions, including maritime patrol, law enforcement, Search and Rescue (SAR), disaster response, and cargo & personnel transport. The Mission System Pallet is a roll-on, roll-off suite of electronic equipment that enables the aircrew to compile data from the aircraft's multiple integrated sensors and transmit and receive both classified "Secret"-level and unclassified information to other assets, including surface vessels, other aircraft, local law enforcement and shore facilities. With multiple voice and data communications capabilities, including UHF/VHF, HF, and Commercial Satellite Communications (SATCOM), the HC-144A will be able to contribute to a Common Tactical Picture (CTP) and Common Operating Picture (COP) through a networked Command and Control (C2) system that provides for data sharing via SATCOM. The aircraft is also equipped with a vessel Automatic Identification System, direction finding equipment, a surface search radar, an Electro-Optical/ Infra-Red system, and Electronic Surveillance Measures equipment to improve situational awareness and responsiveness.

The Coast Guard is upgrading its HC-144A aircraft to address obsolescence issues, improve situational awareness and increase overall mission effectiveness. Upon completion of this modification, called the Ocean Sentry Refresh, the aircraft will be designated HC-144B.

The key change is replacement of the cockpit control and display unit, which is used in flight management and serves as the primary avionics computer for communication control, navigation and equipment monitoring. The new CDU features active matrix display, a more powerful processor and other updated technologies that increase both performance and reliability. It also has the capabilities needed to comply with global air traffic management requirements, and its updated keyboard is easier to use in bad weather.

## **HC-27J Medium Range Search Aircraft**

---

(USCG fact file)

Speed: 315 kts

Range: Up to 2,300 NM

Endurance: 10 Hours

Planned Quantity: 14

The C-27J is being integrated into the Coast Guard's Medium Range Surveillance Aircraft fleet, alongside the HC-144 Ocean Sentry.

The C-27Js will be instrumental in helping the Coast Guard fulfill its maritime patrol, drug and migrant interdiction, disaster response, and search and rescue missions more effectively.

Fourteen C-27J aircraft are being transferred to the Coast Guard under the National Defense Authorization Act for Fiscal Year 2014. Following regeneration and missionization, the C-27J aircraft will address the gap in maritime flight hours the service is currently facing.

Envisioned modifications will enhance the aircraft's current capability to detect, classify and identify maritime targets. Planned components will include an integrated surface search radar, electro-optical/infrared sensors and a standardized mission system being developed for all Coast Guard fixed wing aircraft.

The C-27J Asset Project Office has been stood up at Elizabeth City, North Carolina, and is supporting the acquisition and modernization of the C-27J aircraft system. The APO's missions include development of Coast Guard specific crew duties, procedures, technical manuals, curricula and test and evaluation reporting.

## **MH-60T Medium Range Recovery Helicopter**

---

(USCG fact file)

The revised recapitalization plan retains and upgrades the Coast Guard's existing fleet of HH-60s rather than acquire new MRR replacement aircraft. The original Deepwater baseline had notionally selected the smaller AB-139 as the MRR. This aircraft was determined to be unsuitable to meet the post 9/11 Airborne Use of Force and Vertical Insertion/Vertical Delivery mission requirements. Plans call for 42 aircraft.

MH-60J Project:

The HH-60 was modernized with improved avionics and a new T700 turbine power plant. The hardened HH-60s received an Airborne Use of Force (AUF) package that provides the capability to fire warning and disabling shots from the air while providing for crew protection from small arms fire. When deployed from a Coast Guard flight deck-equipped cutter, this gives the cutter the ability to apply force against a maritime target up to 400NM away. The MRR additionally provides a Vertical Insertion and Vertical Delivery capability – the ability to deliver a 6-person interagency counter-terrorism or response team 200NM from a US shore or a Coast Guard flight deck equipped cutter.

MH-60T Project:

The MH-60T project was developed to enhance the multi-mission capabilities of the HH-60 aircraft. This project includes a number of upgrades to improve reliability and mission performance while also adding new capabilities such as the Electro-Optical/Infrared (EO/IR) Sensor System (ESS) and Airborne Use Force (AUF) package.

The ESS, manufactured by FLIR Systems Inc. provides aircrews with enhanced search capabilities to locate, identify, and track surface targets day or night.

Among the upgrades, Rockwell Collins' Common Avionics Architecture System provides fully integrated flight and mission management capabilities. Using five multi-function display screens, aircrews can display radar and forward-looking-infrared data, monitor the Traffic Collision Avoidance System and view imagery fed into the cockpit from the rescue hoist camera. Enhanced radar and optical sensors also contribute to an improved common operating picture and maritime domain awareness.

The AUF package increases the MH-60T's capability by equipping it with a 7.62mm machine gun to fire warning shots and a .50 caliber long range rifle for precise targeting, such as disabling outboard engines. The package also provides ballistic armor for aircrew protection and upgraded communications systems for better interoperability.

The first MH-60T, CG 6027, completed modifications at ALC in December 2007. The program is expected to be complete by 2020 at a cost of \$451 million.

USN SH-60F frames 164445 and 164804 are to/have become CG 6044 and 6045 respectively.

## **MH-65D/E Multi-Mission Cutter Helicopter (MCH)**

---

(USCG fact file)

The H-65 Short Range Recovery helicopter was introduced to the U.S. Coast Guard in the mid-1980s, and is currently expected to remain in service through 2025.

The Coast Guard began the MCH Project in 2004 with the intent to increase, recapitalize and modernize its aging fleet of H-65 aircraft. The MCH Project grows the fleet by seven aircraft and provides the H-65 with a service life extension by replacing obsolete components with new technology—a digital Automatic Flight Control System, an integrated flight deck with sensor display screens, and a robust and effective C4ISR suite.

The program is broken up into six Discrete Segments:

#### Discrete Segment 1 (H-65/MCH Phase I)

In response to safety and reliability concerns, this segment focused on replacing the LTS 101 engines with Turbomeca Arriel 2C2CG engines and associated components. Re-engined aircraft are designated HH-65C. Other improvements include strengthened landing gear, a new 10-bladed tail rotor and drive shaft that will allow the HH-65 to move horizontally to the left or right at 70 knots.

#### Discrete Segment 2 (National Capital Region Air Defense)

This segment provides a NCRAD mission capability mandated by DHS by increasing the fleet size from 95 to 102 aircraft. The Coast Guard's role in the mission is to conduct helicopter operations in the National Capital Region to identify and intercept aircraft operating within the Washington, D.C. area.

#### Discrete Segment 3 (Airborne Use of Force)

This segment provides the Coast Guard with an organic Airborne Use of Force (AUF) capability provided in AUF packages. The A-kit includes night vision goggle/infrared-compatible formation flying lights and cockpit displays, and an upgraded hailing system, mounts and internal stowage for ammunition and weapons. The AUF B-kit adds ballistic armor for aircrew protection, one M240 7.62mm general purpose machine gun and one RC50 .50 cal. precision rifle. The B-kit also provides a pilot's head-up display, night vision optics and a Forward Looking Infrared (FLIR) sensor.

The project also adds new communications systems—such as the AN/ARC-210 military satellite communications radio, AN/ARC-220 high frequency Automatic Link Establishment (ALE) radio, and the RT5000 multi-band radio, which connects an aircrew with federal, state & local law enforcement agencies and emergency services. The MCHs also will have a DF-430 direction finding system.

The new designation following these upgrades is MH-65C.

The MH-65C will additionally provide a Vertical Insertion and Vertical Delivery capability – the ability to deliver a 3-person interagency response team 50NM from shore or a Coast Guard flight deck-equipped cutter.

#### Discrete Segment 4 (H-65/MCH Phase II)

This segment will build upon the MH-65C configuration developed during Discrete Segment 3 and addresses obsolete aircraft "safety of flight" subsystems that are no longer economically supportable. The improvements include the replacement of the navigation system and six aircraft gyros with a dual digital embedded GPS/inertial navigation system aircraft will be designated MH-65D.

Flight testing on the first MH-65D, CG 6543, began in March at the Coast Guard Aviation Logistics Center in Elizabeth City, N.C. The MH-65D features a new flight navigation system which replaces the current compass, directional, yaw rate gyro systems, and GPS system. Initial Operating Capacity is expected to be reached during the 3rd quarter of FY10.

#### Discrete Segment 5 (Aircraft Ship Integrated Secure and Traverse)

In 2004, the Coast Guard decided that the Deepwater program, would be constructed with the ASIST system built by Indal Technologies, Inc. This discrete segment develops one prototype and nine additional ASIST-equipped H-65s that are compatible with the National Security Cutter for shipboard helicopter operations.

#### Discrete Segment 6 (H-65/MCH Phase III)

This segment is currently the final planned phase for H-65 upgrades. It addresses the remaining aircraft subsystem obsolescence issues and provides further enhanced capabilities, including replacement of the analog automatic flight control system with a digital system, a digital "glass" cockpit using common rotary wing avionics architecture, and digital weather radar. Following this upgrade, the aircraft will be designated as MH-65E.

## **C-37 Gulfstream V**

-----

(USCG fact file)  
Pax: 19

A single VC-37A aircraft is assigned to Reagan National Airport to serve as a long-range command and control aircraft that can be used to provide transportation for high-level Coast Guard and Homeland Security officials. It is capable of nonstop flight to any location in the United States. It is known as Coast Guard 01 or 101. CG 01 is the only ACARS equipped CG aircraft and uses the ident "1".

The USCG leased another Gulfstream V in September 2011 after returning their C-143A.

## **Unmanned Aerial Systems (UAS) Program**

---

The Coast Guard has developed a UAS acquisition strategy to acquire both low-altitude, cutter-based, tactical UASs and mid-altitude, land-based, long range UASs. The UAS acquisition strategy emphasizes commonality with existing DHS and DoD programs.

In November 2008, the Coast Guard experimented with dry-fitting the Navy's RQ-8 Fire Scout aboard the NSC. The tests, which did not involve launch and recovery from the cutter's flight deck, showed that an unmanned aircraft could be loaded, moved, and hangared aboard the NSC.

In 2008, U.S. Customs and Border Protection (CBP) and the Coast Guard established a Joint Program Office to coordinate maritime land-based UAS policy and operations. In 2009, CBP acquired its first maritime-variant Predator UAS, the MQ-9 Guardian. Coast Guard and CBP flight crews have jointly operated the Guardian at Cape Canaveral Air Force Station, Fla., and Corpus Christi, Texas, since 2010.

For cutter-based UAS solutions, the Coast Guard is monitoring the U.S. Navy's ship-based UAS program. While awaiting progression on the major system acquisition, the Coast Guard is pursuing a non-major acquisition of a small UAS for the NSC as an interim, cost-effective UAS capability.

## **New USCG Base Puerto Rico**

April 2019 with the establishment of USCG Base Puerto Rico in San Juan, followed closely by the establishment of Base Detachment Borinquen at the Coast Guard Air Station in Aguadilla, Puerto Rico.

In Department of Defense terms, Base Puerto Rico is the Garrison Commander for Coast Guard commands in Puerto Rico and the U.S. Virgin Islands. The base handles various support functions including personnel administration, financial management, logistics and supply, engineering support for boats and cutters, and facilities maintenance management.