UNITED STATES MILITARY LISTINGS

Joint Chiefs of Staff Nets

High Frequency Global Communications System (HF-GCS)

The U.S. Air Force High Frequency (HF) Global Communications System (HF-GCS) is a worldwide network that currently consist of 14 high-power HF stations which provide air/ground HF command and control radio communications between all Department of Defense (DoD) ground agencies, aircraft and ships. Allied military and other aircraft are also provided support in accordance with agreements and international protocols as appropriate. The HF-GCS is not dedicated to any service or command, but supports all authorized users on a traffic precedence basis.

On June 1, 1992, the former Global HF System (GHFS) was created by consolidating other U.S. Air Force (USAF) and U.S. Navy (USN) HF networks, including the USAF Global Command and Control System (GCCS), the Navy’s Ship-to-Shore High Command (HICOM) network, and the dedicated Strategic Air Command (SAC) Giant Talk System. The goal of the merger was to develop one worldwide non-dedicated HF network capable of providing Command and Control (C2) HF communications support to all authorized DoD aircraft and ground stations. As of 1 October 2002, the former GHFS network is now known as the HF Global Communications System (HF-GCS).

The old high power HF equipment being utilized within the HF-GCS has now been replaced with "Scope Command" equipment. Scope Command incorporates Automatic Link Establishment (ALE) technology for use over HF. Scope Command is not the name for this network as some have indicated in the past post to radio newsgroups. It is the name of the equipment upgrade being done to the network. In January 2003, all HF-GCS station transmit and receive equipment is remotely controlled from the Centralized Net Control Station (CNCS) at Andrews AFB, Maryland.

This ALE technology automates many of the functions performed by the operator such as selecting the best propagating frequency from a list of authorized frequencies.

Net Procedures

General Calling – Aircrews use a call sign as outlined in ACP-121 US Supplement 2 using the collective
call sign "MAINSAIL" or their HF-GCS station call sign (example: Sigonella Global this is Dark 86 on 11175, over). HF-GCS operators require approximately 10 seconds (for automated equipment configuration) to respond to calls for service. The HF-GCS operator can request that the aircraft change to a discrete frequency for improved and/or extended service.

Phone Patch Service – Phone patching allows direct voice communications between ground agencies and aircraft by electronically connecting telephone circuits to radio transmitters and receivers. The HF-GCS phone patch service is reserved for official unclassified business and a patch shouldn’t exceed five minutes. Patches of more than five minutes or of a sensitive nature are normally run on a discrete frequency. Aircrews requesting a phone patch pass along all information necessary for HF-GCS operators to complete the call, such as the identity or location of the called parties and telephone number, if known. Phone patches are monitored by HF-GCS operators and if radio reception isn’t of sufficient quality to complete the patch, they will attempt to copy the traffic and relay it to addresses for the unit making the patch.

Message Relay Service – HF-GCS operators transcribe encoded or plain-text messages for aircraft or ground stations and forward them to the addresses by radio or landline. The text of the messages can be in the form of alphanumerics, code words, plain text, acronyms, and/or numerical sequences. Aircrews may use "READ BACK" procedures when the message data is critical, or when an incomplete transmission is suspected due to poor radio reception. All messages received by Global stations will be accepted and delivered by the fastest means available according to precedence and priority.

Published Frequency Listing – HF-GCS stations operate on "core" or published frequencies to provide increased "Global" coverage. The published frequency listing does not reflect complete system frequency authorizations. These published frequencies are used for initial contact, EAM broadcasts, and short term C2 phone patch and message delivery. Other extended or special services will be moved to each station’s available pool of "discrete" frequencies. Any and all known discrete frequencies for these stations have been incorporated into our list below in the HF-GCS station listings.

Frequency Guide – The frequency guide below is used by units contacting this net and is designed to optimize their air/ground communications.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Description</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>8992.0 kHz</td>
<td>Primary Frequencies</td>
<td>24 Hours</td>
</tr>
<tr>
<td>13200.0 kHz</td>
<td>Back up Frequencies</td>
<td>Daytime</td>
</tr>
<tr>
<td>4724.0 kHz</td>
<td>Back up Frequencies</td>
<td>Nighttime</td>
</tr>
</tbody>
</table>

Commonly heard callsigns

- **Brickwall**: Osan Air Mobility Control Center (AMCC)
- **Denali**: Elmendorf Air Mobility Control Center (AMCC)
- **Hilda Global**: Tanker Airlift Control Center Scott AFB
- **Mainsail**: Authorized users may contact and request service from Global HF System stations by using the general net air-ground call sign "MAINSAIL". Any Global station hearing the call "MAINSAIL" will respond and provide the requested service.
- **S4JG**: A universal Navy call sign assigned to Patrol Squadrons (VP) for use in radio checks. Instead of using the briefed, tactical call sign, the Navigation/Communications operator on the P-3C Orion aircraft would use S4JG on voice and also teletype to get a communications check with a Tactical Support Center (TSC), HF-GCS station or Anti-Submarine Warfare (ASW) Operations Center (ASWOC). In theory by using S4JG, the tactical call sign is less likely to be compromised.
- **Skybird**: The collective call sign for all U.S. Strategic Command (USSTRATCOM) command posts, launch control centers, Global HF stations, Air Traffic Control (ATC) towers on Air Combat Command (ACC)/Air Mobility Command (AMC) host tenant bases, Single Sideband (SSB) HF radio stations, and air defense sites in Canada.
- **Skyking**: The collective call sign for all Single Integrated Operational Plan (SIOP) committed aircraft and missile crews. Its meaning is "all SIOP committed aircraft and missile crews copy the following message."
- **Skymaster**: The collective callsign to all USSTRATCOM airborne command post.
- **Tracker**: US Air Force Europe Tanker Recce Airlift Control Center (UTRACC)
The current station list for the HC-GCS net is as follows:

**Andersen AB, Guam (Voice call Guam Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz

**Andrews AFB, Maryland (Voice call Andrews Global) HC-GCS CNCS**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 8058.0 11053.0 11159.0 11181.0 11214.0 11220.0 13960.0 14863.0 18015.0 kHz

**Ascension Island (Voice call Ascension Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 9043.0 11159.0 11226.0 14497.0 kHz

**Croughton AB, United Kingdom (Voice call Croughton Global)**
4724.0 6712.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 4894.0 5708.0 5117.0 6728.0 6731.0 6993.0 7567.0 7933.0 8032.0 8035.0 10648.0 11118.0 11129.0 11180.0 11181.0 11220.0 11226.0 11232.0 11271.0 13822.0 15042.0 15091.0 kHz

**Diego Garcia NS, Indian Ocean (Voice call Diego Garcia Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 9012.0 11181.0 11226.0 11244.0 11269.0 13254.0 15095.0 20910.0 kHz

**Elmendorf AFB, Alaska (Voice call Elmendorf Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz

**Hickam AFB, Hawaii (Voice call Hickam Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 11181.0 13242.0 kHz

**Lajes AB, Azores (Voice call Lajes Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 11220.0 13440.0 14896.0 23265.0 kHz

**McClellan, California (Voice call McClellan Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz

**Offutt AFB, Nebraska (Voice call Offutt Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequency: 10589.0 11053.0 11159.0 11181.0 12087.0 kHz

**Salinas, Puerto Rico (Voice call Puerto Rico Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Discrete Frequencies: 7690.0 9006.0 10648.0 11056.0 11220.0 11484.0 15087.0 kHz

**Sigonella NS, Sicily, Italy (Voice call Sigonella Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz

**Yokota AB, Japan (Voice call Yokota Global)**
4724.0 6739.0 8992.0 11175.0 13200.0 15016.0 kHz
Notes: The Air Force Eastern Test Range (AFETR) HF Network may be used as a backup to GLOBAL. The net can be contacted on 10780.0 kHz/USB (primary) and 20390.0 kHz/USB (secondary) using the call sign of CAPE RADIO. Another backup to the HF-GCS is profiled below in the US Air Force MARS section.

**DoD Emergency Action Message (EAM) Broadcast Time Slots**

These broadcast are commonly heard on HF-GCS primary frequencies plus 11244.0 kHz. Please note that not all HF-GCS published frequencies are active for every EAM broadcast time slot listed below. Also some of the activity listed below is not on HF-GCS published frequencies, but on other selected discrete frequencies.

For an in-depth discussion on what an EAM is, see the utility information file on the Monitoring Times website at [http://www.monitoringtimes.com](http://www.monitoringtimes.com).

<table>
<thead>
<tr>
<th>Time Slot</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H+00</td>
<td>HF-GCS Offutt AFB, Nebraska</td>
</tr>
<tr>
<td>H+05</td>
<td>HF-GCS Andersen AB, Guam</td>
</tr>
<tr>
<td></td>
<td>HF-GCS Croughton AB, United Kingdom</td>
</tr>
<tr>
<td>H+07</td>
<td>USN E-6 TACAMO LANT aircraft (6697.0/13155.0 kHz)</td>
</tr>
<tr>
<td>H+08</td>
<td>USN E-6 TACAMO aircraft HF-GCS six character EAMs &quot;FOR...&quot;</td>
</tr>
<tr>
<td>H+09</td>
<td>HF-GCS McClellan, California</td>
</tr>
<tr>
<td>H+14</td>
<td>USN E-6 TACAMO PAC aircraft (6697.0/13155.0 kHz)</td>
</tr>
<tr>
<td>H+20</td>
<td>HF-GCS Salinas, Puerto Rico</td>
</tr>
<tr>
<td>H+21</td>
<td>HF-GCS Offutt AFB, Nebraska</td>
</tr>
<tr>
<td>H+25</td>
<td>USSTRATCOM Looking Glass mission aircraft</td>
</tr>
<tr>
<td>H+29</td>
<td>HF-GCS Sigonella Naval Station, Sicily</td>
</tr>
<tr>
<td>H+30</td>
<td>HF-GCS Andrews AFB, Maryland</td>
</tr>
<tr>
<td>H+34</td>
<td>HF-GCS Hickam AFB, Hawaii</td>
</tr>
<tr>
<td>H+35</td>
<td>HF-GCS Croughton AB, United Kingdom</td>
</tr>
<tr>
<td>H+37</td>
<td>USN E-6 TACAMO LANT aircraft (6697.0/13155.0 kHz)</td>
</tr>
<tr>
<td>H+38</td>
<td>USN E-6 TACAMO aircraft HF-GCS six character EAMs &quot;FOR...&quot;</td>
</tr>
<tr>
<td>H+40</td>
<td>HF-GCS Elmendorf AFB, Alaska</td>
</tr>
<tr>
<td>H+44</td>
<td>USN E-6 TACAMO PAC aircraft (6697.0/13155.0 kHz)</td>
</tr>
<tr>
<td>H+46</td>
<td>Unknown station</td>
</tr>
<tr>
<td>H+49</td>
<td>HF-GCS McClellan, California</td>
</tr>
<tr>
<td>H+50</td>
<td>HF-GCS Lajes AB, Azores</td>
</tr>
<tr>
<td>H+55</td>
<td>USSTRATCOM Looking Glass mission aircraft</td>
</tr>
<tr>
<td>H+59</td>
<td>HF-GCS Sigonella Naval Station, Sicily</td>
</tr>
</tbody>
</table>

Earlier examples of this broadcast schedule can be seen in the various 1980s editions of the Grove Shortwave Directories (usually on page 5 for those that still have them). Those minute stamps were also used for the then common "standing by for traffic" calls heard from the various GIANT TALK ground stations operating under their pre-92 daily changing call sign aliases.

The FOXTROT (SKYKING) messages are also common, or at least they used to be. You should generally hear more than two over any 24 hour period. Of interest, the preface to the FOXTROT broadcasts that would name the echoing ground stations have not been heard (here) since maybe sometime in April 2003 (around the end of major combat in Iraq). I've heard no instance of a request to DIEGO GARCIA or anyone else since around that time, just the occasional FOXTROT broadcast from ANDREWS or whoever. They dropped the DECENT, ENLIST, FAIRLY, EYESTRAIN, DEFROSTER echo requests sometime around September 2001 to be replaced with plaintext station names (DIEGO GARCIA, CYPRUS FLIGHT WATCH, etc) after 9/11.

Busiest frequencies are 8992.0 kHz ("Eight-Niner") and 11175.0 kHz ("Triple-1"), which most stations guard around the clock. The others operate on a schedule which changes twice yearly, on the first of April and October. The upper sideband (USB) mode is used on all HF-GCS frequencies listed above.

Note: The data signal you will on 9025.0 kHz is ALE which is a computerized system that simplifies HF operation (see section below). Older frequency circulated on the internet continue to list 8968.0 and 17976.0 kHz,
but these were removed from HF-GCS service several years ago.

**HF-GCS Scope Command HF ALE Network**

HF-GCS ALE Network frequencies (USB/ALE):
3137.0 4721.0 5708.0 6721.0 9025.0 11226.0 13215.0 15043.0 18003.0 23337.0 kHz

The ALE system used by the JCS HF-GCS network is designated MIL-STD-188-141A. You can download a software program developed by Dr. Charles Brain to decode these digital transmissions at [http://www.chbrain.dircon.co.uk/](http://www.chbrain.dircon.co.uk/)

ALE allows automated ground agency contact by selecting the best station and best frequency without operator interaction. ALE radios make this possible by using a datafill that contains frequency, station and other pertinent information. For ALE radios to operate properly, the radio must have a loaded datafill, be turned on in the “automatic” mode and remain there the duration of the flight. If the radio is removed from the ALE mode, history tables will require time to rebuild and initial communications may be slightly degraded.

Net participating stations, identifiers and specific frequency assignments used in the HF-GCS ALE net:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identifier</th>
<th>Address</th>
<th>Frequencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADW</td>
<td>Andrews AFB, MD USA</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>AED</td>
<td>Elmendorf AFB, AK USA</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>CRO</td>
<td>RAF Croughton, UK</td>
<td>3137 4721 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>GUA</td>
<td>Andersen AFB, Guam</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>HAW</td>
<td>Ascension Island</td>
<td>3137 4721 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>HIK</td>
<td>Hickam AFB, Hawaii</td>
<td>3137 4721 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>ICZ</td>
<td>Sigonella, Sicily Italy</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>JDG</td>
<td>NSF Diego Garcia</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>JNR</td>
<td>Salinas, Puerto Rico</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>JTY</td>
<td>Yokota AB, Japan</td>
<td>3137 4721 6721 9025 11226 13215 15043 18003 kHz</td>
<td></td>
</tr>
<tr>
<td>MCC</td>
<td>West Coast (McClellan), CA USA</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>MPA</td>
<td>Mt. Pleasant, Falkland Island</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>OFF</td>
<td>Offutt AFB, NE USA</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
<tr>
<td>PLA</td>
<td>Lajes AB, Azores</td>
<td>3137 4721 5708 6721 9025 11226 13215 15043 18003 23337 kHz</td>
<td></td>
</tr>
</tbody>
</table>

Selected non HF-GCS stations observed in this net:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEF</td>
<td>439AW, Westover AFB, MA</td>
</tr>
<tr>
<td>GVT</td>
<td>Raytheon, Greenville, TX</td>
</tr>
<tr>
<td>IKF</td>
<td>NAS Keflavik, Iceland (HF-GCS facility closed)</td>
</tr>
<tr>
<td>OKC</td>
<td>Oklahoma City (Tinker AFB), OK</td>
</tr>
<tr>
<td>RIC</td>
<td>CAP Region 2 MER/CAP National Technology Center, Richmond, VA</td>
</tr>
<tr>
<td>RSC</td>
<td>Rockwell Scope Command Facility, Greenville, TX</td>
</tr>
<tr>
<td>TAG</td>
<td>Incirlik AB, Turkey (HF-GCS facility closed)</td>
</tr>
<tr>
<td>WRL</td>
<td>Warner-Robins AFB, GA</td>
</tr>
</tbody>
</table>

Preset telephone number codes imbedded in Scope Command ALE command lines:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCHS</td>
<td>Charleston Command Post</td>
</tr>
<tr>
<td>PDOV</td>
<td>Dover AMCC</td>
</tr>
<tr>
<td>PERT</td>
<td>Rota</td>
</tr>
<tr>
<td>PMET</td>
<td>Hilda Metro</td>
</tr>
<tr>
<td>PPLA</td>
<td>Lajes AB</td>
</tr>
<tr>
<td>PTAE</td>
<td>Hilda East</td>
</tr>
<tr>
<td>PTAR</td>
<td>Ramstein AB</td>
</tr>
<tr>
<td>PTAW</td>
<td>Hilda West</td>
</tr>
<tr>
<td>PWRI</td>
<td>McGuire AFB</td>
</tr>
</tbody>
</table>
NIPR/SIPR HF ALE Network

SIPR (Secret Internet Protocol Router) Network Frequencies
(USB/ALE): 3113.0  5702.0  5902.0  6715.0  8968.0  9044.0  11181.0  15091.0  17976.0  27870.0 kHz

SIPR Gateway/Frequency Matrix

<table>
<thead>
<tr>
<th>Gateway/Frequency Matrix</th>
<th>Andrews AFB, Maryland</th>
<th>3113.0  5702.0  5902.0  6715.0  8968.0  9044.0  11181.0  15091.0  17976.0 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADWSPR</td>
<td></td>
<td>27870.0 kHz</td>
</tr>
<tr>
<td>AEDSPR</td>
<td>Elmendorf AFB, Alaska</td>
<td>6715.0  17976.0 kHz</td>
</tr>
<tr>
<td>CROSPR</td>
<td>Croughton AB, United Kingdom</td>
<td>5702.0  5902.0  6715.0  8968.0  11181.0  15091.0  17976.0 kHz</td>
</tr>
<tr>
<td>GUASPR</td>
<td>Andersen AB, Guam</td>
<td>5702.0  5902.0  6715.0  8968.0  11181.0  15091.0  17976.0  27870.0 kHz</td>
</tr>
<tr>
<td>HAWSPR</td>
<td>Ascension Island</td>
<td></td>
</tr>
<tr>
<td>HIKSPR</td>
<td>Hickam AFB, Hawaii</td>
<td>5702.0  5902.0  6715.0  8968.0  15091.0  17976.0  27870.0 kHz</td>
</tr>
<tr>
<td>ICZSPR</td>
<td>Sigonella AB, Sicily, Italy</td>
<td>5702.0  6715.0  8968.0  11181.0  15091.0  17976.0 kHz</td>
</tr>
<tr>
<td>JDGSPR</td>
<td>Diego Garcia, Indian Ocean</td>
<td>5702.0  6715.0  8968.0  9044.0  11181.0  27870.0 kHz</td>
</tr>
<tr>
<td>JNRSPR</td>
<td>Salinas, Puerto Rico</td>
<td>3113.0  5902.0  6715.0  8968.0  11181.0  15091.0  17976.0 kHz</td>
</tr>
<tr>
<td>JTYSPR</td>
<td>Yokota AB, Japan</td>
<td>15091.0 kHz</td>
</tr>
<tr>
<td>MCCSPR</td>
<td>McClellan, California</td>
<td>5702.0  5902.0  6715.0  8968.0  11181.0  15091.0 kHz</td>
</tr>
<tr>
<td>OFFSPR</td>
<td>Offutt AFB, Nebraska</td>
<td>3113.0  5702.0  5902.0  6715.0  8968.0  11181.0  15091.0  17976.0 kHz</td>
</tr>
<tr>
<td>PLASPR</td>
<td>Lajes AB, Azores</td>
<td>5702.0  6715.0  8968.0  11181.0  15091.0 kHz</td>
</tr>
</tbody>
</table>

NIPR (Non-Secure Internet Protocol Router) Network Frequencies
(USB/ALE): 3068.0  4745.0  5684.0  8965.0  10600.0  10830.0  11199.0  13242.0  17973.0  20631.0 kHz

NIPR Gateway/Frequency Matrix

<table>
<thead>
<tr>
<th>Gateway/Frequency Matrix</th>
<th>Andrews AFB, Maryland</th>
<th>3068.0  4745.0  5684.0  8965.0  11199.0  13242.0  17973.0  20631.0 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADWNPR</td>
<td></td>
<td>20631.0 kHz</td>
</tr>
<tr>
<td>CRONPR</td>
<td>Croughton AB, United Kingdom</td>
<td>3068.0  4745.0  8965.0  17973.0 kHz</td>
</tr>
<tr>
<td>HIKNPR</td>
<td>Hickam AFB, Hawaii</td>
<td>8965.0 kHz</td>
</tr>
<tr>
<td>ICZNNPR</td>
<td>Sigonella NS, Sicily, Italy</td>
<td>4745.0  5684.0  8965.0  13242.0  17973.0  20631.0 kHz</td>
</tr>
<tr>
<td>JNRNPR</td>
<td>Salinas, Puerto Rico</td>
<td>8965.0 kHz</td>
</tr>
<tr>
<td>MCCNPR</td>
<td>McClellan, California</td>
<td>4745.0  5684.0  8965.0  13242.0  17973.0  20631.0 kHz</td>
</tr>
<tr>
<td>OFFNPR</td>
<td>Offutt AFB, Nebraska</td>
<td>5684.0  8965.0  11199.0  13242.0  17973.0  20631.0 kHz</td>
</tr>
</tbody>
</table>

Mystic Star Network

This is a worldwide communications system, operated and maintained by elements of the United States Army, United States Navy, and United States Air Force under the control of the Defense Information Systems Agency (DISA) Operations Center. Its network provides worldwide communications by directly controlling radio equipment located at Global HF system stations. It consists of ultra high frequency satellite and HF networks supporting Presidential, Vice President, cabinet members and other senior government officials, Joint Staff, VIP (very important persons) and command airborne missions. The Mystic Star HF network consists of: a single master net control station (MNCS) located at Andrews AFB Maryland, interstation and intersite circuits, and relay and auxiliary communications subsystems. (Source Air Force Instruction 33-106)

Note: I have seen less and less monitor reports on this system over the last few years. It is widely believed that encryption is the reason for this decline in Mystic Star traffic.

Frequency/Designator Matrix (USB/LSB/Encryption)

<table>
<thead>
<tr>
<th>Designator Matrix</th>
<th>Frequency (kHz)</th>
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<tr>
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<td>16117.0</td>
</tr>
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<td>F033</td>
<td>15962.0</td>
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</table>
Frequencies 4441.0, 6671.0, 8260.0, 18801.0 and 25363.0 kHz has been heard carrying "Mystic Star" traffic, but no designator is known. Designator F171 and signals associated with this net have been monitored on 18397.4 kHz vice the 18403.5 kHz we have listed above.

Inter-American Telecommunications Systems
The Inter-American telecommunications systems are high-frequency single-sideband voice and radioteletype networks conducted within individual services. There are three of these networks:
The primary mission of each is to promote a greater degree of mutual understanding among the member services and increase their communication capabilities for hemispheric defense. Some specific services offered through the Inter-American Telecommunications System, Air Force are:

1. Overflight and landing clearance requests of foreign aircraft
2. Aircraft movement information
3. Search and rescue information
4. Weather information
5. Logistical data
6. Administrative information
7. Personal traffic

The Army and Navy systems similarly provide specific services. The Inter-American Telecommunications System, Air Force [Spanish: Sistema de Información Tecnológica de las Fuerzas Aéreas de América (SITFAA)] is a Spanish/English/Portuguese language network supporting North, Central, and South American Air Force users in 18 countries. SITFAA's communications capabilities include voice, fax, Internet, and high frequency (voice and data). Each member country has a SITFAA station, however, after SICOFAA reorganized in 1990 the United States SITFAA station moved from Puerto Rico to Andrews AFB in Maryland. The Unites States does not have a SITFAA station, its station serves as the Master Net Control Station (ECR or Estacion en Control de la Red).

**HF Frequencies:**

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<td>23066.5</td>
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</tr>
<tr>
<td>24860.0</td>
<td>kHz</td>
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</table>

SITFAA is broken into two networks: the Northern Circuit (Circuito Norte) and Southern Circuit (Circuito Sur). The northern circuit consists of Canada, El Salvador, Guatemala, Honduras, Nicaragua, Panama and the Dominican Republic. The southern circuit consists of Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay and Venezuela. The United States is the Network Control Station (Estación Control de la Red, ECR). This station is manned by the 789th Communications Squadron of the 89th Airlift Support Group of the 89th Airlift Wing at Andrews Air Force Base. Each circuit members take turns being the Northern Circuit Control Station (Estación Control del Circuito Norte, ECCN) or the Southern Circuit Control Station (Estación Control del Circuito Sur, ECCS).
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<td>26532.0?</td>
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<td>Unknown</td>
<td>Z350</td>
<td>Unknown</td>
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</table>

11244.0 kHz
1. This frequency is a special HF-GCS discrete that is used by *every* named HF-GCS station for Emergency Action Messages (EAM) and FOXTROT broadcast. In fact, it has been described as the "broadcast" frequency. Stations here do not respond to MAINSAIL general calls on this frequency.

2. This frequency is guarded by the Nightwatch 01 (US Air Force E-4 National Airborne Operations Center or NAOC) station (which uses daily changing callsign aliases) and is paired with 8992.0 kHz.

3. This frequency is used by the apparent USSTRATCOM Looking Glass mission aircraft for daily EAM transmissions at any time, and used for repeat EAM transmissions at H+25/H+55 mostly during North American daylight hours (and at any part of the day during exercises). Paired with 8992.0 kHz. Also guarded by the Glass mission and other U.S. Navy E-6 TACAMO aircraft when active.

Note: The primary mission of the Looking Glass aircraft is the ability to command, control, and communicate with its nuclear forces. Its highly-trained crew and staff ensure there is always an aircraft ready to direct bombers and missiles from the air should ground-based command centers become inoperable. Looking Glass guarantees that U.S. strategic forces will act only in the precise manner dictated by the president. On Oct. 1, 1998 the Navy's E-6B Mercury aircraft replaced the USAF EC-135 in the Looking Glass mission.

4. Used by possible tanker aircraft (maybe on their SIOP mission) passing 4-element groups to "SkyMaster" (NAOC and TACAMO aircraft) during exercises and paired with 8992.0 kHz. The 4-element groups have been called "TID traffic" by SKYMASTER aircraft.

5. Used by other U.S. government stations (i.e. Federal Emergency Management Agency-FEMA, etc) including the static call "Blue Grass" (Mt. Weather, Virginia) as a frequency to pass "Hotel" messages. These messages are passed to each other and to the NAOC aircraft (using an alias separate from that particular day's callsign). This activity is usually during the third week of each month, is not paired with 8992.0 kHz, and many of the station's use callsigns begin with the letter "A" (i.e. Axle Rod, Army Ruler, etc).

6. Units here always identify the frequency as 11244.0 kHz and not with a tactical designator.

6697.0 kHz
1. This frequency is used by the TACAMO aircraft for daily evening/night (North America) EAM transmissions during the following time slots:
H+07/H+37 by a TACAMO LANT aircraft
H+14/H+44 by a TACAMO PAC aircraft

2. EAMs have been heard at any time during initial broadcast, simulcast on 8992.0, 11244.0 and on the USSTRATCOM Zulu net frequencies above.

3. This frequencies is also used by possible TACAMO aircraft to communicate with trigraph identifier stations during exercises (usually to receive 3-element group traffic from these trigraph stations.)

4. Also is used 24-hours a day by the United Kingdom's station MKL and their trigraphs (many of these thought to be Nimrod aircraft).

13155.0 kHz
1. This frequency is used by the TACAMO aircraft for daily daytime (North America) EAM transmissions during the following time slots:

   H+07/H+37 by a TACAMO LANT aircraft
   H+14/H+44 by a TACAMO PAC aircraft

2. EAMs have been heard at any time during initial broadcast, simulcast on 8992.0, 11244.0 and on the USSTRATCOM Zulu net frequencies above.

3. The activity on this frequency apparently moved here from 11267.0 kHz a few years ago. 11267.0 now seems to be quiet probably indicating that it is no longer used for this purpose.

Other U.S. Navy frequencies heard recently with EAM broadcasts by Jeff Haverlah and the column editor: 4515.0 4848.0 5680.0 6512.0 6666.0 6686.0 6720.0 6724.0 6778.0 6833.0 6903.0 7501.0 7589.0 8020.0 8971.0 9007.0 9010.0 9036.0 9283.0 10515.5 10805.0 10994.0 11187.0 11255.0 11271.0 13155.0 14698.0 15038.0 15049.0 16117.0 kHz

These and other old U.S. Navy HF HICOM (High Command) frequencies have been active in past with heavy EAM traffic. (See HF-GCS section above about the demise of the HICOM network)

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United States Air Force

<<Stop here for blog>>

Air Force Military Affiliate Radio System (MARS)
You will also find a considerable amount of military aircraft voice traffic (official and unofficial) on the U.S. Air Force Military Affiliate Radio System (MARS) phone patch network frequencies: The primary frequencies are 13927.0 and 20992.0 kHz. These are fun and interesting frequencies to monitor.

Frequency/Designator Matrix (USB)
4557.0   RK
7633.5   ACJ
13927.0   ACB (Primary)
14606.0   ACF
18617.0   Unknown designator
20992.5   ACZ

MARS conducts a phone patch admin net on Sundays at 1600 UTC on 13977.0 kHz (ACC).
Civil Air Patrol (CAP) Tech
Frequencies (USB/ALE): 5006.0  6800.0 (SHARES)  6806.0  7602.0  8012.0  9047.0  11402.0  13415.0  14357.0  19814.0 kHz

ALE Addresses:
RIC      CAP National Technology Center, Richmond VA
022NHQCAP National Ops Center (NOC) CAP National Headquarters Maxwell AFB AL

According to the CAP Alerting System Communications Actions publication under threat advisories Yellow (present condition), Orange and Red the NOC (Headcap 22) and the NTC (Headcap 33) are responsible for conducting the National Command Net with the NTC acting as alternate net control to the NOC. "Confidence checks" have to be conducted to ensure that the system is ready for any contingency. This probably explains the fairly heavy volume of soundings from 022, 047 and 062 NHQCAP identifiers.

Reading these same publications and looking at the command structure of CAP headquarters, Ron has tentatively identified the following ALE addresses:

CAP Used on SHARES frequencies
033NHQCAP Unidentified
043NHQCAP Unidentified
046NHQCAP Unidentified
951NHQCAP Unidentified
971NHQCAP Unidentified
047NHQCAP Director of Communications (DOK) CAP Headquarters, Maxwell AFB, AL [Tentative]
062NHQCAP Director of Operations (DOO) CAP Headquarters, Maxwell AFB, AL [Tentative]
034MERCAP Middle East Region, North Carolina, possible Region Chief of Staff
004MERCAP Middle East Region, Chief of Staff
0033COCAP Colorado CAP
0041MICAP Michigan CAP
0042MICAP Michigan CAP
0004WICAP Wisconsin CAP
0004SCCAP South Carolina CAP
043SERCAP Southeast Region CAP
044NCRCAP National Capitol Region CAP, Washington DC
100NERCAP Northeast Region CAP
037RMRCAP Rocky Mountain Region CAP
0272HICAP Hawaii CAP

In mid-summer 2004 the following ALE addresses were noted on CAP frequencies:
ADWCAP Civil Air Patrol at Andrews AFB
MCCCAP Civil Air Patrol at McClellan AFB
JNRCAP Civil Air Patrol at Roosevelt Roads, Puerto Rico.
HIKCAP Civil Air Patrol at Hickam AFB

JStars Aircraft Discrete
Frequency (USB): 11181.0 kHz

Mildenhall RAF, United Kingdom
Frequency (USB): 6761.0 kHz
Note: Aerial refueling tankers interplane/air-to-air worldwide

Ramstein AB, Germany
AMC Command Post (Metaphor)
Frequencies (USB): 6730.0  9022.0 kHz

**Special Operations Command (AFSOC)**
*Frequency/Designator Matrix (USB)*
3044.0  352SOG RAF Mildenhall, United Kingdom Maintenance
3134.0  Hurlburt Field, Florida
4450.0  352SOG RAF Mildenhall, United Kingdom Exercise Operations
5204.5  352SOG RAF Mildenhall, United Kingdom (Blackhat) Primary
5349.0  352SOG RAF Mildenhall, United Kingdom (Blackhat)
5687.0  Hurlburt Field, Florida (Plantation/Seminole Operations)
5732.0  Hurlburt Field, Florida (Emerald Ops/Seminole Operations) FOX 2?Kirtland AFB, New Mexico
6730.0  Hurlburt Field, Florida
9018.0  AFSOC Air-to-Air
9019.0  Hurlburt Field, Florida (Plantations Operations) FOX 4? ex-9017 kHz
9026.0  352SOG RAF Mildenhall, United Kingdom (Blackhat)
9161.5  352SOG RAF Mildenhall, United Kingdom (Blackhat) Primary
11611.0  Hurlburt Field, Florida (Seminole/Emerald Operations)
13206.0  Hurlburt Field, Florida (Plantations Operations) FIX 1? ex-13207 kHz

I have had no recent reports on 18027.0 (FOX 9) or 23271.0 kHz (FOX 8). Has anyone in the last year heard any AFSOC units using the FOX designators above? Also, the following frequencies were active with AFSOC activity until the overhaul of the OR frequencies several years ago. Does anyone know what frequencies have taken their place? 4721.0  6712.0  9017.0 9023.0 kHz?

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**United States Army**

**18th Airborne Corps HF ALE Net**
Frequencies (USB/ALE): 3238.5  4641.5  5883.5  6911.5  7361.5  8171.5  9295.0  10161.5  10680.0  12168.0 kHz

**ALE Addresses:**
18FABDEJAGCE  18th Field Artillery Bde
159X1  1/159th deployed/exercise Hqs [Tentative]
229JAGCE  229th FA Bn (105mm howitzers) [Tentative]
327FAJAGCE  3-27th FA (MLRS)-Multiple Rocket Launcher Bn, 18th Airborne Corps
FFAJAGCE  Unidentified sub-unit of 18th FA Regt
P1Z159  1/159th Avn Bn, Ft Bragg
S03OPS/S08OPS  Unknown user
S12/21/41  Unknown user
T1Z159  1/159th Avn Bn, Ft Bragg
T18  Probably 18th Airbone Corps Headquarters

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**Army Corps of Engineers**
*Frequency/Designator Matrix (USB/ALE)*
3345.0  Channel 1
5015.0  Channel 2  ALE
5327.5  Channel 3
5400.0  Channel 4
5437.5  Channel 5  ALE
6020.0  Channel 6
6785.0  Channel 7  ALE
9122.5 Channel 8 ALE (Primary)
11693.5 Channel 9 ALE
12070.0 Channel 10 ALE (Secondary)
12122.0 Channel 11 ALE
13925.5 Unknown ALE
16077.0 Channel 12 ALE
16326.0 Channel 13 ALE (Teritiary)
16358.0 Channel 14
20659.0 Channel 15 ALE

ALE Addresses
CGQ US Army Corps of Engineers Headquarters, Washington, DC
CRL Cold Region Research & Engineering Lab, Hanover, NH
ECV Unknown user
G333/334/336 Unknown user
L22/30 Unknown user
LRB Buffalo District, Buffalo, NY
LRD Great Lakes and Ohio River Division, Cincinnati, OH
LRE Detroit District, Detroit, MI
LRH Huntington District Office, Huntington, WV
LRL Louisville District, Louisville, KY
LRN Nashville District Office, Nashville, TN
LRO Unknown user
LRP Pittsburgh District, Pittsburgh, PA
MVD Mississippi Valley Division Office, Vicksburg, MS
MVN New Orleans District Office, New Orleans, LA
MVS St. Louis District Office, St. Louis, MO
MVT Unknown user
NAD North Atlantic Division Office, Brooklyn, NY
NAO Norfolk District Office, Norfolk, VA
NAP Philadelphia District, Philadelphia, PA
NVP St. Paul District Office, Saint Paul, MN
NKW Kansas City District, Kansas City, MO
NWO Omaha District, Omaha, NE
NWP Portland District, Portland, OR
POA Anchorage, AK
RDTAR Unknown user
RDTEF Unknown user
RPK Unknown user
RRV Unknown user
SAC Charleston District Office, Charleston, SC
SAD Atlanta, GA
SAM Mobile District Office, Mobile, AL
SAS Savannah District Office, Savannah, GA
SAW Wilmington District, Wilmington, NC
SBV Unknown user
SPA Albuquerque, NM
SPK Sacramento District, Sacramento, CA
SWF Southwestern Division, Fort Worth, TX
SWG Galveston District, Galveston, TX
SDD Tulsa District, Tulsa, OK
TSX Unknown user
WUM Unknown user
Army Flight Following Service (AFFS)
Frequencies: 2630.0R  4060.0R  8065.0C  8972.0C  12022.0C  14761.5C  16144.5C  19103.5C  19208.0C kHz [Freqs: "R"=reported, "C"= confirmed]

ALER Addresses:
Skywat  Skywatch, Soto Cano AB, Honduras
228RER  Deployed element of 1/228th unit (rear)
228FWD  Deployed element of 1/228th Avn Bn, Soto Cano AB Honduras (forward)
WAROPS  1/228th Avn Regt("Winged Warriors") Operations-Soto Cano AB, Honduras
Hondo1  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH956  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH957  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH958  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH959  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH962  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH963  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH980  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH981  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH984  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]
RUH993  UH-60A helo, 1/228th Avn Bn, Soto Cano AB Honduras [Tentative]

Continuity of Operations (COOP) HF ALE Net
Frequencies (USB/ALE): 3275.0  3285.0  5066.5  5088.5  6767.5  6985.0  7448.5  7510.0 kHz

ALER Addresses:
CECOM  Communications & Electronics Command, Ft. Monmouth NJ.
USACE1010  Corps of Engineers, Washington DC
USADA1010  Unknown user
USAFC1220  Forces Command (FORSCOM), Ft McPherson GA
USAIS1012  Intelligence & Security Command, Ft Belvoir VA
USAMC2120  Materiel Command, Alexandria VA
USAMD1010  Missile Defense Command, Arlington VA
USANG2409  National Guard HQs, Arlington VA
USAPC1010  Pacific Command, Fort Shafter, Oahu HI

National Guard
Frequencies (USB/ALE): 4924.5  5847.0  6809.0  8047.0  9121.0  10816.5  14653.0  16338.5  20906.0 kHz

ALER Addresses:
A040LN  Alabama A060RN  Arkansas A090ZN  Arizona
A100KN  Alaska C010TN  Connecticut C080ON  Colorado
C090AN  California D030CN  Washington DC D030EN  Delaware
F040LN  Florida G040AN  Georgia G090UN  Guam
H090IN  Hawaii I010DN  Idaho I050NN  Indiana
I070AN  Iowa K040YN  Kentucky K070SN  Kansas
L060AN  Louisiana M010AN  Massachussetts M010EN  Maine
M030DN  Maryland M040SN  Mississippi M050IN  Michigan
M050NN  Minnesota M070ON  Missouri M080TN  Montana
N010HN  New Hampshire N020JN  New Jersey N020YN  New York
N040CN  North Carolina N060MN  New Mexico N070EN  Nebraska
N080DN  North Dakota O010RN  Oregon O050HN  Ohio
O060KN  Oklahoma P020RN  Puerto Rico P030AN  Pennsylvania
R010IN  Rhode Island S040CN  South Carolina S080DN  South Dakota
T040NN  Tennessee  T060XN  Texas  U080TN  Utah
V010TN  Vermont  V020IN  Virgin Islands  V030AN  Virginia
W010AN  Washington  W030VN  West Virginia  W080YN  Wyoming

Note: These ALE Addresses are allocated to State National Guard headquarters.

ARC61NG  61st WMD CST Unit, Arkansas
HD1       Unknown user
HQ701N     Probably NG HQs (Arlington VA)
HQ703N     Probably NG Readiness Center (Arlington VA)
MN55CSTNGB 55th WMD CST Unit, Minnesota
OKC63NG    63rd WMD CST Unit, Oklahoma
TXC06NG    6th WMD CST Unit, Texas
WV3        West Virginia

**Transportation Command**

*Frequency/Designator Matrix (USB)*

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**United States Coast Guard**

**9th Coast Guard District HF Net**

Frequencies (USB/ALE): 3163.4  5423.9  7530.0  7621.6 (might have replaced 7629.1)  8126.4  9278.5  10373.6  11043.6 kHz

Station List:

CGD9           Coast Guard District 9, Cleveland, Ohio
NODK           USCGC Bramble (WLB-392)
NODW           USCGC Sundew (WLB-404)
NODY           USCGC Acacia (WLB-406)
NRKP           USCGC Mackinaw (WAGB-83)
NRLX           USCGC Katmai Bay (WTGB-101)
NRLY           USCGC Bristol Bay (WTGB-102)
NRUR           USCGC Mobile Bay (WTGB-103)
NRUS           USCGC Biscayne Bay (WTGB-104)
NRUU           USCGC Neah Bay (WTGB-105)

**A1401 Net Frequencies**

This is a list of Ship/Shore Independent Sideband (ISB) frequencies. I call this set of frequencies the A1401 net.

2016.0  2040.0  2054.0  4913.5  5108.5  5217.0  5223.0  5266.0  5272.0  5419.5  5942.5  6961.0  7439.0  7577.0  7617.0  7626.0  7754.5  7845.0  7884.0  7909.0  9169.0  9291.0  9332.0  9373.0  10297.5  10338.5  10354.5  10378.0  10675.0  10759.0  10788.0  10929.5  10935.5  11024.0  11045.0  11157.5  13413.0  13484.0  13537.7  13950.0  14506.0  14518.75  14584.0  14731.0  14752.0  14919.2  18189.0  18255.0  18283.0  18335.0  18497.0  18650.0
Atlantic Only  2161.0 kHz
Pacific Only  2144.0  5932.5  7713.0  9299.5  11165.8  18757.0 kHz

Air-to-Ground Nets
Frequencies (USB): 3053.0  3056.0  3119.0  3122.0  4730.0  4733.0  5693.0  5696.0  5699.0  8980.0  8983.0  11196.0  11199.0  11202.0  13218.0  13221.0  15082.0  15085.0  15088.0  17988.0  17991.0 kHz

Station List:
CAMSLANT  Chesapeake, Virginia
CAMSPAC  Point Reyes, California

HF PACTOR II E-Mail Network
Freq  Net Control Station  Fleet  Day/Night
5272.2  NOJ  PAC  Night
6961.2  NMC1  PAC  Night
6964.4  NMC  PAC  Night
7442.3  Cutters  PAC  Night
7685.5  NNN0MDC  LANT  24 Hours
8340.2  NMC  PAC  Night
10355.2  NOJ  PAC  24 Hours
13827.5  NNN0MUC  LANT  24 Hours
14506.2  NMC  PAC  Day
14752.2  Unknown  PAC  Day
14922.4  NOJ [Tentative]  PAC  Day
18192.2  NMC1  PAC  Day
20642.2  NMC  PAC  Day

Station List:
NAQD  USCGC Jarvis WHEC-725
NDWA  USCGC Morgenthau WHEC-722
NEG  Unidentified USCGC
NEPP  USCGC Healy WAGB-20
NGDF  USCGC Munro WHEC-724
NKJU  USCGC Kukui WLB-203
NLPM  USCGC Chase WHEC-718
NLVS  USCGC Rush WHEC-723
NMAG  USCGC Hamilton WHEC-715
NMC  Communications Area Master Station Pacific (CAMSPAC) Point Reyes, California
NMC1  Coast Guard Island, Alameda, California
NMEL  USCGC Mellon WHEC-717
NNHA  USCGC Acushnet, WMEC-167
NOJ  Communications Station (COMSTA), Kodiak, Alaska
NRCB  USCGC Eagle, WIX-327
NRPX  USCGC Buttonwood WLB-306
NRTF  USCGC Active, WMEC-618
NRUC  USCGC Storis WMEC-38
NRUO  USCGC Polar Sea WAGB-11 (no longer equipped)
NSTF  USCGC Steadfast WMEC-625
NYCQ  USCGC Boutwell WHEC-719
NZNE  USCGC Walnut WLB-205 ***New Ident***
NZVE  USCGC Alert WMEC-630
NNN0CBS  USCGC Durable, WMEC-628
NNN0CCK  USCGC Bear WMEC-901
NNN0CEQ  USCGC Harriet Lane WMEC-903
NNN0CES  USCGC Gentian (WIX-290)
NNN0CFA  USNS Persistent (T-AGOS 6)
NNN0CLL  Unidentified USCGC
NNN0CMD  USCGC Mohawk WMEC-913
NNN0CME  USCGC Northland WMEC-904
NNN0CMS  USCGC Courageous WHEC-716
NNN0CMV  USCGC Tampa WMEC-902
NNN0CNW  Unidentified USCGC
NNN0CNY  USCGC Campbell WMEC-909
NNN0CNZ  USCGC Tahoma WMEC-908
NNN0CSA  USCGC Seneca WMEC-906
NNN0CSP  USCGC Spencer WMEC-905
NNN0CTB  USCGC Venturous WMEC-625
NNN0CVQ  USCGC Forward WMEC-911
NNN0CXK  USCGC Gallatin WHEC-721
NNN0CXS  USCGC Dallas WHEC-716
NNN0CYU  USCGC Vigilant WMEC-617
NNN0CZK  USCGC Vigorous WMEC-627
NNN0MDA  Atlantic Shore Station, Nazareth Pennsylvania (aka: NNN0GKF)
NNN0MDC  Atlantic Shore Station, HQ Navy & Marine Corps MARS, Washington DC (aka: NNN0NAV)
NNN0MDF  Atlantic Shore Station, Coast Guard HQ, Washington DC (aka: NNN0NCG)
NNN0MUC  Atlantic Shore Station
NNN0NXZ  USCGC Confidence WMEC-619
NNN0NZK  USCGC Dauntless WMEC-624

Secure Net

Frequency/Designator Matrix (USB)

4716.6  3A04 Group Key West (ANDVT/Clear)
5142.6  ANDVT Comms
5272.0  3E06
5320.0  Coast Guard District 7/8 (ANDVT/Clear)
5399.6  3C16 (ANDVT)
5422.5  3A03
5680.0  Group Charleston with CG Cutters
6234.5  3E11 (ANDVT/Clear)
6246.6  ANDVT/Clear
6815.6  Ex-3E11/Unknown current designator
6969.0  ANDVT
7421.0  3A09
7626.0  3E10
7773.5  3A08
7845.0  Unknown current designator
7884.0  3E13
7909.0  3E14 CAMSLANT
8091.0  Unknown current designator
8240.0  Usually a HFDX frequency, but some voice with cutters noted
8337.6  3E12
8980.0  ANDVT
10608.0  3A02 Group Miami (ANDVT/Clear)
10675.0 3E19
10759.0 3E20
10788.0 3E21
10993.6 3A17 Group Key West (ANDVT/Clear)
11157.5 3E24
11202.0 Deployed cutters with HH-65 helos in Caribbean
13413.0 3E25
13809.0 Unknown current designator
13950.0 Unknown current designator

Note: Following designators have been mentioned recently: 3C11. The designators above appear to be changing. Anyone else notice any others changes? Reports are requested. Since January 2004 there has been no mention on the nets of 3A26 and 3A31.

**TISCOM Net**
Frequencies (USB/ALE): 4730.0 8859.0 13221.0 17988.0 kHz

**Station List:**
- NMC: CAMSPAC Point Reyes, CA
- NMG: COMSTA New Orleans, LA
- NMO: COMSTA Honolulu, HI
- NOJ: COMSTA Kodiak, AK
- TISCOM: Coast Guard Telecommunications & Information Systems Command, Arlington, VA

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**United States Navy**

**ELF Communications System**
Frequencies: 76 Hz (primary) and 44 Hz (Secondary).
These two broadcast frequencies were turned off on September 30, 2004 and these two sites will be dismantled per an article in the Bay City Times newspaper on September 13, 2004. There were two transmit sites: Republic, Michigan and Clam Lake, Wisconsin. This system was used as a bell ringer communication system to submarines.

**Fleet Area and Control Facility (FACSFAC)**
FACSFAC Virginia Capes, VA (USB) 2252.0 kHz

**Ships Electronics Systems Evaluation Facility (SESEF)**
Frequencies (USB):
- Point Loma, California 2792.0 kHz
- Mayport, Florida 5745.0 10711.0 kHz
- Barbers Point, Hawaii 16087.0 kHz
- Fort Storey, Virginia 7535.0 8150.0 10711.0 kHz
- Ediz Hook, Washington 3236.0 kHz
- Yokosuka, Japan 5304.0 kHz

**Strategic Communications Wing One (SCW-1)**
Frequency/Designator Matrix (USB):
- 6691.0 kHz CA
- 11187.0 kHz CB
- 17982.0 kHz CC
- 11264.0 kHz CH
Also check 11267.0, 13240.0 and 14615.0 kHz. References have been made on the air to designators CD, CE, CF, CG, CK and CL.

**Strike Group Air Defense Networks**

Frequencies (USB): 3265.0 kHz

**AFN HF Broadcast**

Update to current schedules for the US Navy AFN broadcast on their website and NPR. They indicate that the NPR broadcast schedule isn’t correct and made a correction to the schedule for the Guam broadcast. Below is the accurate schedule for AFN shortwave transmissions. Switch over from night to day, etc is based on local time at the transmitter site.

<table>
<thead>
<tr>
<th>Station</th>
<th>Daytime</th>
<th>Nightime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrigada, Guam</td>
<td>13362.0</td>
<td>5765.0</td>
</tr>
<tr>
<td>Diego Garcia</td>
<td>12579.0</td>
<td>4319.0</td>
</tr>
<tr>
<td>Keflavik, Iceland</td>
<td>13855.0</td>
<td>13855.0</td>
</tr>
<tr>
<td></td>
<td>7590.0</td>
<td>7590.0</td>
</tr>
<tr>
<td>Key West, Florida</td>
<td>12133.5</td>
<td>12133.5</td>
</tr>
<tr>
<td></td>
<td>5446.5</td>
<td>5446.5</td>
</tr>
<tr>
<td>Pearl Harbor, Hawaii</td>
<td>10320.0</td>
<td>6350.0</td>
</tr>
<tr>
<td>Roosevelt Roads, PR</td>
<td>7507.5</td>
<td>7507.5</td>
</tr>
<tr>
<td>Sigonella, Sicily</td>
<td>4993.0</td>
<td>10940.5</td>
</tr>
</tbody>
</table>

A new frequency in the Pacific Rim has been heard intermittently on 4815.0 kHz

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## NON - UNITED STATES GOVERNMENT NETS

### Australia

**Australian Customs Service**

Frequencies (USB): 2148.0 5285.0 7960.0 10435.0 13591.0 kHz.

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## UNITED STATES GOVERNMENT LISTINGS

### SHARES (Shared Resources) Program

SHARES Coordination Network (SCN)

*Frequency/Designator Matrix*

- 4490.0 SHARES Coordination Network (SCN) ALE Net <Channel 3>
- 4573.5 SHARES Coordination Network (SCN), alternate frequency for channel 1 voice check-in.
- 5236.0 SHARES Coordination Network (SCN) Voice Net, also Region I/II/III (Northeast) Net <Channel 1>
- 5711.0 SHARES Coordination Network (SCN) ALE Net <Channel 4>
- 6765.0 Region V/VII/VIII (North) Net
- 6800.0 SHARES Coordination Network (SCN) BBS Net <Channel 9>
- 6910.0 Region VI (South) Net
- 7320.0 Region IX (Southwest) Net
- 7632.0 Region IV (Southeast) Net
SHARES Coordination Network (SCN) ALE Net <Channel 5>
SHARES Coordination Network (SCN) <Channel XF>
SHARES Coordination Network (SCN) ALE Net <Channel 6>
SHARES Coordination Network (SCN) BBS Net (FACTOR-1) <Channel 10>
SHARES Coordination Network (SCN) Voice Net, also Nationwide West/Central/Gulf Coast Nets. <Channel 2>
SHARES Coordination Network (SCN), alternate frequency for channel 2 voice check-in, Digital (AMTOR FEC)
SHARES Coordination Network (SCN) ALE Net <Channel 7>
SHARES Coordination Network (SCN) ALE/STI Net <Channel 8>

SHARES coordination stations conduct a weekly SHARES net on the ten SCN channels every Wednesday from 1600-1800 UTC. Large scale annual SHARES exercises are conducted in April, August and December.

**SCN Operational Levels**

SCN Operational Levels are designed to improve the responsiveness of the SHARES Coordination Network during emergencies. SCN Operational Levels are defined as follows:

**Operational Level 3** - Conditions normal. No emergency exists. The ten-channel SCN may be used by SHARES station personnel for training and non-emergency operations.

**Operational Level 2** - Emergency potential exists. Non-emergency operations on the SCN suspended. SCN monitoring increased. Check-in windows established on the national and regional nets to receive Stations Availability Reports.

**Operational Level 1** - Emergency exists. SHARES message support required. National and regional nets maintain full-period operations to receive Station Availability Reports, to list SHARES message traffic, and to coordinate the processing of SHARES messages.

**U.S. Immigration and Customs Enforcement (ICE)**
The COTHEN (Customs Over the Horizon Enforcement Net) HF radio system has replaced the older JTF designated systems and those frequencies/ designators have been removed from this list.

5732.0 Scan 1
7527.0 Scan 2
8912.0 Scan 3
10242.0 Scan 4
11494.0 Scan 5
13907.0 Scan 6
15867.0 Scan 7
18594.0 Scan 8
20890.0 Scan 9
23214.0 Scan 10
25350.0 Scan 11

**U.S. Drug Enforcement Administration**
Frequency/Designator Matrix (USB)
5277.0 Alpha (Night DEA Primary)
5841.0 Bravo
7300.0 Charlie
9497.0 Delta
11076.0 Echo (Day DEA Operations)
7657.0 Foxtrot
14690.0 Golf
18666.0 Hotel (Reportedly returned to FBI in 1995)
23675.0 India
14350.0 Lima
14686.0 Papa (DEA day Primary)
23402.5 Romeo
? Sierra Alpha
? Sierra Bravo
11073.5 Sierra Echo
17171.0 Sierra Hotel
18171.0 Sierra India (Reportedly returned to FBI in 1995)
19131.0 Sierra Juliet
? Sierra Lima

U.S. Federal Aviation Administration

HF Recovery Communications (RCOM)

The Recovery Communications (RCOM) Program, mandated by a variety of United States national level documents including Presidential Executive Orders and National Security Decision Directives, was established to encompass all FAA emergency command and control communications (C3) systems and projects under one program. Emergency C3 systems are defined as those means of communications that the FAA employs to direct management, operations, and reconstitution of the National Airspace System (NAS) in support of Federal Aviation Administration (FAA), Department of Transportation (DOT), and Department of Defense (DOD) missions during national disasters or national security emergencies.

The FAA maintains a variety of fixed-position, portable, and transportable C3 communications systems for use in support of emergency operations. One such commonly heard C3 system is the RCOM/NARACS High Frequency/Single Side Band (HF/SSB) Net.

In 1995, the FAA approved the deployment of the RCOM HF/SSB upgrades and a five-year contract was awarded to Eastern Computer Incorporated (ECI) for the purpose of upgrading the FAA RCOM/National Radio Communications System (NARACS) HF network. ECI has installed the RCOM HF/SSB upgrade at all the FAA Region Offices and Emergency Operations Centers, and is the final phases of installing the NARACS/ALE upgrades at all Air Route Traffic Control Centers (ARTCCs).

FAA HF connectivity nets are conducted on Wednesday UTC. The East Coast net meets at 1545 UTC on 8125.0 kHz with KIT 88 as net control. The West Coast net was last reported on 13630.0 kHz at 1845 UTC.

FAA Recovery Communications/National Radio Communications System (RCOM/NARACS) HF SSB Network (U=USB/L=LSB)

Frequencies (including ALE): 5860.0U 6870.0U 6870.0L 7475.0U/L 7611.0U/L 8125.0U/L 9114.0U/L 11637.0U 13457.0U 13630.0U 15851.0U 16348.0U kHz

Station List:

<table>
<thead>
<tr>
<th>ALE</th>
<th>Add Location</th>
<th>Miscellaneous Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFAULT</td>
<td>Unknown</td>
<td>Probably a FAA unit that has not set their ALE ID properly in their unit</td>
</tr>
<tr>
<td>FAA</td>
<td>Unknown</td>
<td>Probably not a properly loaded unit, has not been seen as a regular participant on the net</td>
</tr>
<tr>
<td>FAAAAAL</td>
<td>Anchorage, AK</td>
<td>KDM 53-Alaska Region Office/EOC</td>
</tr>
</tbody>
</table>
FAAACE  Kansas City, MO     KKU 40-Central Region Office/EOC
FAAACT  Atlantic City, NJ     KLM 80-William J. Hughes Tech Center
FAAACY  Atlantic City, NJ     WHZ 74-Flight Inspet Field Office
FAAAEA  Jamaica, NY     KJK 82-Eastern Region Office/EOC
FAAAGL  Des Plaines, IL     WHX 51-Great Lakes Region Office/EOC
FAAAKE  Burlington, MA     WHX 45-New England Region Office/EOC
FAAAJC  Anchorage, AK     WHZ 73-Flight Inspet Field Office
FAAAHW  Renton, WA     WHX 20-NW Mtn Region Office/EOC
FAAAL  College Park, GA     KDM 49-Southern Region Office/EOC
FAAATW  Fort Worth, TX     KDM 47-Southwest Region Office/EOC
FAAATL  Atlanta, GA     KLM 44-Flight Inspet Field Office
FAAASW  Fremont, CA     KMR 96-Oakland ARTCC
FAAABTL  Battle Creek, MI     KLM 43-Flight Inspet Field Office
FAADCA  Washington, DC     KEM 80-FAA Headquarters
FAAEI  Unknown     Eastern Computer Incorporated Contractor for FAA ARTCC RCOM
FAAEKN  Unknown     This is NOT a station in Elkins, WV
FAAALGT  Boonsboro, MD     KLO 87-FAA Emergency Relocation Site [Tentative]
FAAAMRB  Martinsburg, WV     KIT 88-Eastern US C3 Net NCS
FAAOEX  Oklahoma City, OK     KIA 21-FAA Aeronautical Center
FAAMOKC  Oklahoma City, OK     WHZ 77-Flight Inspet Field Office
FAASAC  Sacramento, CA     WHZ 78-Flight Inspet Field Office
FAASJU  San Juan, PR     KDM 45-San Juan ARTCC
FAAZAB  Albuquerque, NM     KGH 23-Albuquerque ARTCC
FAAZAN  Anchorage, AK     KBJ 44-Anchorage ARTCC
FAAZBW  Nashua, NH     KLD 70-Boston ARTCC
FAAZDC  Leesburg, VA     KJK 80-Washington ARTCC
FAAZDV  Longmont, CO     KCJ 70-Denver ARTCC
FAAZFW  Fort Worth, TX     KBQ 25-Fort Worth ARTCC
FAAZHU  Houston, TX     KMU 31-Houston ARTCC
FAAZID  Indianapolis, IN     KLB 48-Indianapolis ARTCC
FAAZIX  Hilliard, FL     KJK 79-Jacksonville ARTCC
FAAZKC  Olathe, KS     KKA 82-Kansas City ARTCC
FAAZLA  Palmdale, CA     KJK 77-Los Angeles ARTCC
FAAZLC  Salt Lake Cty, UT     KDC 20-Salt Lake City ARTCC
FAAZMA  Miami, FL     KMA 47-Miami ARTCC
FAAZME  Memphis, TN     KDM 52-Memphis ARTCC
FAAZMP  Farmington, MN     KJC 20-Minneapolis ARTCC
FAAZNY  Ronkonkoma, NY     KCD 73-New York ARTCC
FAAZOA  Fremont, CA     KMR 96-Oakland ARTCC
FAAZOB  Cleveland, OH     KLA 25-Cleveland ARTCC
FAAZSE  Auburn, WA     WHX 44-Seattle ARTCC
FAAZTL  Hampton, GA     KUV 64-Atlanta ARTCC
FAAZUA  Aurora, IL     KJB 96-Chicago ARTCC

1. FAA Southern Net meets on Wednesday at 0900 ET on 6870 kHz LSB
2. FAA Western Net meets on Wednesday at 1230 ET on 13457 kHz USB
3. FAA Eastern Net meets on Wednesday at 1045 ET on 8125 kHz USB
   NCS: KIT88. Regular checkins: KEM80, KLM80, KLO87, KJK82, WHX45, KLD70, KJK80, WHX51, KJB96, KLA25, KLB48, KCJ20, KIA21, KDM49, KJK79, KMA47, KDM52, KUV64
# List Legend

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB</td>
<td>Air Base</td>
</tr>
<tr>
<td>ACC</td>
<td>Air Combat Command (U.S. Air Force)</td>
</tr>
<tr>
<td>ACP</td>
<td>Allied Communications Publication</td>
</tr>
<tr>
<td>AFB</td>
<td>Air Force Base</td>
</tr>
<tr>
<td>AFETR</td>
<td>Air Force Eastern Test Range</td>
</tr>
<tr>
<td>ALE</td>
<td>Automatic Link Establishment</td>
</tr>
<tr>
<td>AMC</td>
<td>Air Mobility Command (U.S. Air Force)</td>
</tr>
<tr>
<td>AMCC</td>
<td>Air Mobility Command Center</td>
</tr>
<tr>
<td>ASW</td>
<td>Anti-Submarine Warfare</td>
</tr>
<tr>
<td>ASWOC</td>
<td>Anti-Submarine Warfare (ASW) Operations Center</td>
</tr>
<tr>
<td>C2</td>
<td>Command and Control</td>
</tr>
<tr>
<td>CNCS</td>
<td>Centralized Net Control Station</td>
</tr>
<tr>
<td>EAM</td>
<td>Emergency Action Message</td>
</tr>
<tr>
<td>GCCS</td>
<td>Global Command and Control (changed to GHFS, now known as HF-GCS)</td>
</tr>
<tr>
<td>GHFS</td>
<td>Global HF System (now known as HF-GCS)</td>
</tr>
<tr>
<td>HF</td>
<td>High Frequency</td>
</tr>
<tr>
<td>HF-GCS</td>
<td>High Frequency Global Communications System</td>
</tr>
<tr>
<td>HICOM</td>
<td>High Command</td>
</tr>
<tr>
<td>JCS</td>
<td>Joint Chiefs of Staff (U.S. Department of Defense)</td>
</tr>
<tr>
<td>LANT</td>
<td>Atlantic</td>
</tr>
<tr>
<td>LSB</td>
<td>Lower Sideband</td>
</tr>
<tr>
<td>MARS</td>
<td>Military Affiliate Radio System</td>
</tr>
<tr>
<td>MF</td>
<td>Moved From</td>
</tr>
<tr>
<td>NAS</td>
<td>Naval Air Station</td>
</tr>
<tr>
<td>NS</td>
<td>Naval Station</td>
</tr>
<tr>
<td>PAC</td>
<td>Pacific</td>
</tr>
<tr>
<td>RTTY</td>
<td>Radioteletype</td>
</tr>
<tr>
<td>SAC</td>
<td>Strategic Air Command (replaced by U.S. Air Force ACC/AMC)</td>
</tr>
<tr>
<td>SIOP</td>
<td>Single Integrated Operational Plan</td>
</tr>
<tr>
<td>SSB</td>
<td>Single Sideband</td>
</tr>
<tr>
<td>Supp</td>
<td>Supplement</td>
</tr>
<tr>
<td>TACAMO</td>
<td>Take Charge and Move Out (US Navy aircraft)</td>
</tr>
<tr>
<td>TSC</td>
<td>Tactical Support Center (US Navy)</td>
</tr>
<tr>
<td>U.S.</td>
<td>United States</td>
</tr>
<tr>
<td>USAF</td>
<td>U.S. Air Force</td>
</tr>
<tr>
<td>USB</td>
<td>Upper Sideband</td>
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<tr>
<td>USN</td>
<td>U.S. Navy</td>
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<tr>
<td>USSTRATCOM</td>
<td>U.S. Strategic Command</td>
</tr>
<tr>
<td>UTRACC</td>
<td>U.S. Air Force Europe Tanker Recce Airlift Control Center</td>
</tr>
<tr>
<td>VP</td>
<td>U.S. Navy designation for a patrol squadron</td>
</tr>
</tbody>
</table>