

USAF High Frequency Global Communications System

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The High Frequency Global Communications System (HF-GCS) is a network of single sideband shortwave transmitters of the United States Air Force which is used to communicate with aircraft in flight, ground stations and some United States Navy surface assets. All worldwide receiving and transmitting sites in the HF-GCS system are remotely controlled from Andrews AFB. Before 1 October 2002 it was known as the Global High Frequency System (GHFS).

USAF HF-GCS stations		Other ALE callsigns copied on this net	
Andrews	Andrews Air Force Base, Maryland, USA	AKR	Akrotiri, CYP
Ascension	USAF, Ascension Island, Atlantic Ocean	CEF	Westover AFB, MA, USA
Croughton	USAF, Croughton, United Kingdom	CHS	Charleston AFB, SC, USA
Diego Garcia	Diego Garcia Naval Station, Indian Ocean	DDF	Frankfurt, Germany
Elmendorf	Elmendorf Air Force Base, Alaska	DOV	Dover AFB, DE, USA
Guam	Andersen Air Force Base, Guam Island	GBL	Falkland Islands
Hickam	Hickam Air Force Base, Hawaii	GTL	Thule, Greenland
Lajes	Lajes Field, Azores	HF2	Guam
McClellan	Westcoast, USA	IKF	Keflavik, Iceland
Offutt	Offutt Air Force Base, Nebraska, USA	KAD3	Kadena Air Base, Okinawa, Japan
Salinas	Puerto Rico	MET	Weather Shop Scott AFB, IL, USA (Hilda Metro)
Sigonella	US Naval Air Station Sigonella, Sicily, Italy	NOR	Unid
South Atlantic	Probably RAF, Falkland Islands	PAX3	US Naval Air Station Patuxent River, MD
Yokota	Yokota Air Base, Japan	RIC	CAP Richmond, VA, USA
		RSC	Rockwell Centre Cedar Rapids, IA, USA
		SKW1	Edwards AFB, CA, USA
		TAE	East Cell Scott AFB, IL, USA (Hilda East)
		TAG	Incirlik, Turkey
		TAR	Ramstein ACC, Germany
		TAW	West Cell Scott AFB, IL, USA (Hilda West)
		WRD	Unid

ALE frequencies and callsigns

Station	Callsign	Frequencies									
Andrews	ADW	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Ascension	HAW	3137	4721		6721	9025	11226	13215	15043	18003	23337
Croughton	CRO	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Diego Garcia	JDG	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Elmendorf	AED	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Guam	GUA	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Hickam	HIK	3137	4721		6721	9025	11226	13215	15043	18003	23337
Lajes	PLA	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Westcoast	MCC	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Offutt	OFF	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Salinas	JNR	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Sigonella	ICZ	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
South Atlantic	MPA	3137	4721	5708	6721	9025	11226	13215	15043	18003	23337
Yokota	JTY	3137	4721		6721	9025	11226	13215	15043	18003	23337

Voice frequencies and callsigns

Voice transmission are less common these days and I am not sure if there are still schedules. As far as I know the old ones are still valid. The summer schedule runs from April through September and the winter schedule runs from October through March.

Summer schedules (not confirmed)

Station	4724	6712	6739	8992	11175	13200 (not active)	15016
Andrews	0500-1330		0300-1600	24H	24H	1330-0500	1600-0300
Ascension	2300-0700		2200-0900	24H	24H	0700-2300	0900-2200
Croughton	2300-0600	2100-0800		24H	24H	0600-2300	0800-2100
Dieg Garcia	1400-0100		1200-0200	24H	24H	0100-1400	0200-1200
Elmendorf	0600-1500		0400-1700	24H	24H	1500-0600	1700-0400
Guam	1300-2200		1100-2400	24H	24H	2200-1300	2400-1100
Hickam	0800-1700		0700-1800	24H	24H	1700-0800	1800-0700
Lajes	2200-0800		2000-1200	24H	24H	0800-2200	1200-2000
Westcoast	0600-1400		0300-1800	24H	24H	1400-0600	1800-0300
Offutt	0400-1330		0200-1700	24H	24H	1330-0400	1700-0200
Puerto Rico	0400-1200		0100-1400	24H	24H	1200-0400	1400-0100
Sigonella	2200-0530		1900-0900	24H	24H	0530-2200	0900-1900
South Atlantic	No voice txm	No voice txm	No voice txm		No voice txm	No voice txm	No voice txm
Yokota	1300-2200		1100-2200	24H	24H	2200-1300	2200-1100

Winter schedules (not confirmed)

Station	4724	6712	6739	8992	11175	13200 (not active)	15016
Andrews	2400-1200		2200-1400	24H	24H	1200-2400	1400-2200
Ascension	2200-0800		2100-1000	24H	24H	0800-2200	1000-2100
Croughton	1800-0600	1700-0900				0600-1800	0900-1700
Diego Garcia	1600-2300		1400-0200	24H	24H	2300-1600	0200-1400
Elmendorf	0330-1630		0200-1800	24H	24H	1630-0330	1800-0200
Guam	1300-2030		0800-2200	24H	24H	2030-1300	2200-0800
Hickam	0700-1600		0400-1800	24H	24H	1600-0700	1800-0400
Lajes	1800-0730		1700-0900	24H	24H	0730-1800	0900-1700
Westcoast	0130-1400		0030-1500	24H	24H	1400-0130	1500-0030
Offutt	0030-1330		2300-1400	24H	24H	1330-0030	1400-2300
Puerto Rico	0100-1100		2300-1200	24H	24H	1100-0100	1200-2300
Sigonella	1700-0500		1600-0800	24H	24H	0500-1700	0800-1600
South Atlantic	No voice txm	No voice txm	No voice txm	No voice txm	No voice txm	No voice txm	No voice txm
Yokota	0900-2100		0800-2200	24H	24H	2100-0900	2200-0800

Joint Staff/J-3 NC3 HS messages

Including:

- Foxtrot / Skyking Messages
- FDM - Force Direction Messages
- EAM - Emergency Action Messages

See <http://udxf.nl/EAM-Foxtrot-FDM.pdf>

Secret Internet Protocol Router Network (SIPRnet)

SIPRNET replaces the DDN DSNET1 as the SECRET portion of DISN (Defense Information System Network). Its complete architecture will be achieved by constructing a new worldwide backbone router system. The primary method for secret-level network connectivity is via Base secret-level networks which in turn provide Base Router connectivity to SIPRNET. Various DOD router services and systems will migrate onto the SIPRNET backbone router network to serve the long-haul data transmission needs of the users. Transmission services will use smart multiplexer and 512 kilobits per second (kbps) channels. Other transmission services will be acquired or leased as needed. Future expansion will progress to the T1 circuit data rate of 1.544 Megabits (Mbps) and potentially to the T3 data rate of 45 Mbps. High speed packet switched service will be provided through the use of IP routers. This SECRET router layer of the DISN is intended to support national defense C3I requirements, to include the issuing of COMSEC keys used with the STU-III to make secure dial-up SIPRNET communications server connections.

The Secret Internet Protocol Router Network (SIPRNET) has matured to be the core of our warfighting command and control capability. Many expeditionary commanders ask for SIPRNET ahead of secure voice when deploying their forces. SIPRNET is fast becoming the defacto standard of preferred data services, even over NIPRNET. The SIPRNET is the new, worldwide router-based network replacing the older X.25-based packet switched network (the Defense Secure Network One (DSNET1) of the Defense Data Network (DDN)). The initial SIPRNET backbone router network went online 3 March 1994. Subscribers started coming on line shortly thereafter. The SIPRNET WAN (as of 31 May 1995) consisted of a collection of 31 backbone routers interconnected by high-speed serial links to serve the long-haul data transport needs of secret-level DoD subscribers. Additional SIPRNET backbone routers are being planned to meet increased customer requirements. SIPRNET supports the DoD standard Transmission Control Protocol/Internet Protocol (TCP/IP) protocol service. Subscribers within the DoD and other Government Agencies are able to use the SIPRNET for passing datagrams at the Secret-Not Releasable to Foreign Nationals (SECRET-NOFORN) classification level.

USAF SIPRnet ALE callsigns:

ADWSPR	AEDSPR	CROSPR	GUASPR	HAWSPR	HIKSPR	ICZSPR
IKFSPR	JDGSPR	JNRSPR	JTYSPR	MCCSPR	OFFSPR	PLASPR

USAF SIPRnet frequencies:

3113 5702 6715 8968 11181 17976 27870 kHz

Non-classified Internet Protocol Router Network (NIPRnet)

The NIPRNET is comprised of the former DLA Corporate Network (DCN) in the CONUS, the former DDN Pilot Network, also in the CONUS and extensions into the Pacific and Europe. The former Pilot Network portion of the NIPRNET has been renamed the Joint Interconnection Service (JIS) because it serves as a central network with which routes are available to facilitate reachability with the various router networks to include the Global Internet.

Source: <http://www.fas.org/irp/program/disseminate/siprnet.htm>

USAF NIPRnet ALE callsigns:

ADWNPR	AEDNPR	CRONPR	GUANPR	HAWNPR	HIKNPR	ICZNPR
IKFNPR	JDGNPR	JNRNPR	JTYNPR	MCCNPR	OFFNPR	PLANPR

USAF NIPRnet frequencies:

3068 4745 5684 8965 11199 13242 17973 20631 kHz

Other ALE callsigns heard on the NIPR and SIPR networks belong to aircraft and other users like FEMA. Additions are most welcome.

DL0001DAT	DL0004DAT					
E30139DAT	E30353DAT	E30356DAT	E30558DAT	E30560DAT	E31605IGM	
FEMAD001DAT						
MOBD01DAT	MOBD01IGM	MOBD05DAT	MOBD10DAT	MOBD10IGM	MOBD14DAT	MOBD17DAT
MOBD22DAT	MOBD27DAT	MOBD27IGM	MOBD28DAT	MOBD34DAT	MOBD44DAT	

CG and DPS nets

CGnet calls:	ADWCGT	MCCCGT	OFFCGT	PLACGT	CGNET	CGNET1
DPS calls:	CRODPS					

Sorry, we do not have further info about the CG and DPS nets yet.