

IONOSPHERIC SOUNDER OPERATIONS

ACP191 (C)



MARCH 1996

FOREWORD

1. The Combined Communications-Electronics Board (CCEB) is comprised of the five member nations, Australia, Canada, New Zealand, United Kingdom and United States and is the Sponsoring Authority for all Allied Communications Publications (ACPs). ACPs are raised and issued under common agreement between the member nations.
2. ACP19 (C), IONOSPHERIC SOUNDER OPERATIONS, is an UNCLASSIFIED CCEB publication.
3. This publication contains Allied military information for official purposes only.
4. It is permitted to copy or make extracts from this publication.
5. This ACP is to be maintained and amended in accordance with the provisions of the current version of ACP198.

**THE COMBINED COMMUNICATION-ELECTRONICS BOARD
LETTER OF PROMULGATION
FOR ACP191 (C)**

1. The purpose of this Combined Communication Electronics Board (CCEB) Letter of Promulgation is to implement ACP191 (C) within the Armed Forces of the CCEB Nations. ACP191 (C), IONOSPHERIC SOUNDER OPERATIONS, is an UNCLASSIFIED publication developed for Allied use and, under the direction of the CCEB Principals. It is promulgated for guidance, information, and use by the Armed Forces and other users of military communications facilities.
2. ACP191 (C) is effective on receipt for CCEB Nations and when by the NATO Military Committee (NAMILCOM) for NATO nations and Strategic Commands.

EFFECTIVE STATUS

Publication	Effective for	Date	Authority
ACP191 (C)	CCEB	On Receipt	LOP

3. All proposed amendments to the publication are to be forwarded to the national coordinating authorities of the CCEB or NAMILCOM.

For the CCEB Principals

N. CRAM
Squadron Leader
Permanent Secretary to CCEB

RECORD OF MESSAGE CORRECTIONS

Identification of Message Correction and date, time group		Date Entered	By whom entered
DTG	Correction		
232121Z JUL 97	1/1	28 March 02	MODUK
012021Z FEB 99	2/1	28 March 02	MODUK
	3/1	1 March 2002	CCEB - PS

TABLE OF CONTENTS

Title Page	I
Foreword	II
Letter of Promulgation	III
Record of Message Corrections	IV
Table of Contents	V
CHAPTER 1 - GENERAL INFORMATION	
101 Introduction	1-1
102 Definitions	1-1
103 General	1-2
104 Set-Up Procedures	1-3
105 Policy for Ionospheric Sounder Operation	1-4
106 Protection of Emergency, Distress, and Safety Frequencies	1-6
107 Changes	1-8
ANNEX A Station Cognizant Authorities	A-1
ANNEX B Alphabetical List of AN/TRQ-35 Stations	B-1
ANNEX C Start Time List of AN/TRQ-35 Stations	C-1
ANNEX D Communications Area - North America/North Atlantic	D-1
ANNEX E Communications Area - Europe	E-1
ANNEX F Communications Area - USCINCPAC	F-1
ANNEX G Communications Area - South Atlantic	G-1
ANNEX H Mobile	H-1
ANNEX I AN/TRQ-35 Receiver Identities	I-1
List of Effective Pages	LEP-1

IONOSPHERIC SOUNDER OPERATIONS

GENERAL INFORMATION

101. **Introduction.** High frequency (HF) communications systems play a vital role in satisfying command and control communications requirements of almost every nation. It is essential that HF communications be available for use regardless of natural or man-made interference. The ionospheric sounder affords the communications staff the ability to identify in "real time" the optimum frequencies from those assigned for use over a given circuit path. With the increased use of sounders, it is essential that their operations be suitably coordinated. This document establishes an appropriate coordination procedure and uses information relating to AN/TRQ-35, the sounder system in predominant use at present. The AN/TRQ-35, as such, sets the standard for Allied sounder operations. Information on future sounder systems will be added as chapters to this publication as required.

102. **Definitions.**

a. **Real Time.** Coordinated "universal" time as obtained from a time standard (WWV, BBC, etc). All sounder clocks (both transmitter and receiver) will be synchronized using a universal time standard (UTS).

b. **Sweep/Clock Time.** Specific time in 5-minute intervals on which each sounder will begin a sweep relative to real time. Example sweep times are 00, 15, 30, and 45 minutes ("Sweep time" is the preferred terminology and will be used throughout this publication.)

c. **Start Time.** Specific time in minutes and seconds that the sounder transmitter clock lags on sweep time. Each sounder transmitter has a specific start time as assigned by the cognizant assignment authority. Start times are normally assigned on the even seconds using the odd seconds as guard bands, e.g., 2 min 00 sec, 2 min 02 sec. (Note: Start time will be added to sweep times to produce actual times that a transmitter will begin sweep.)

d. **Transmit Time.** The actual time that the transmitter starts each sweep in a specified one-hour period. Transmit time equals start time plus sweep time.

Example: Station assigned sweep times 00, 15, 30, 45 min and a start time of 2 min 32 sec will have actual transmit times of 2:32, 17:32, 32:32, and 47:32 each hour in relations to "real time."

e. **Sweep Range.** A segment of the 2-30 MHz band swept by the sounder transmitter during one transmit cycle, either 2-16 MHz or 2-30 MHz. (That is, regardless of whether the bands 2-16 MHz or 2-30 MHz are used, the time to complete one transmit cycle or sweep is 4 minutes and 40 seconds.)

f. **Scan Rate.** The scan rate of an HF sounder is expressed in kHz/sec through an indicated HF band. For example, the AN/TRQ-35 scan rate is 100 kHz/sec in the 2-30 MHz sweep range and 50 kHz/sec in the 2-16 MHz sweep range.

g. **Scan Interval.** The time elapsed between times of transmission. (in the example in d above, the scan interval is 15 minute.)

103. **General.** The AN/TRQ-35(V) transmitter, receiver, and spectrum monitor form an operational set. One or more receivers may use a single deployed transmitter. The AN/TRQ-35 may employ additional adaptors as discussed in d below. Technical and operational information on this system follow:

a. **AN/TRQ-35 Transmitter.** The AN/TRQ-35 transmitter emits a continuous wave (CW) signal which sweeps upward in frequency at a constant linear rate between 2 and 16 or between 2 and 30 MHz in 4 minutes and 40 seconds. The transmitters operate with a power of 10 to 100 watts for transmission by a broadband antenna. In some cases, the signal can be diplexed onto the same antenna being used to support a communications circuit. The high-power mode of operation shall be exception; normal-power mode of operation is 10 watts. In the diplexed mode, only

2 percent of the transmitter power is coupled onto the antenna; the remaining power goes to an internal dummy load. Also in this mode, the propagation data obtained by the receiver include the actual radiation characteristics of the distant-end communications transmit antenna. The AN/TRQ-35 transmitter may be programmed to sweep up to 12 times per hour but is normally limited to 4 times per hour.

b. **AN/TRQ-35 Receiver.** The AN/TRQ-35 receiver automatically sweeps through the HF spectrum in the bands 2-16 or 2-30 MHz. When synchronized with a transmitter, it will receive only those signals which are propagating, thus providing a measurement of ionospheric propagation conditions for the path on a real-time basis. An internal clock synchronizes the receiver with the sweeping distant-end sounder transmitter. Radio energy propagates over a path in various modes, such as F-layer, sporadic-E, ground wave, etc. each is received with different phase and propagation delays. At the receiver, each relative time delay of received signals corresponds to a frequency offset from the receiver's sweeping local oscillator (either 50 or 100 kHz for each millisecond of delay), resulting in a tone in the receiver's demodulated output.

(1) The tones are converted from the amplitude-versus-time domain to the frequency-versus-time domain by a spectrum analyzer in the receiver and because any instant in time corresponds to a tuned frequency of the receiver, the output of the spectrum analyzer will display an ionogram showing the individual received modes versus the tuned frequency. In addition, as radio energy at various levels is received, the receiver gain is automatically adjusted to provide a constant-level output to the spectrum analyzer. The automatic gain control (AGC) voltage, when correlated with the frequency, provides a measure of received signal strength versus frequency which is simultaneously displayed by the ionogram depicting the signal strength of the various received modes for a given discrete frequency.

(2) The AN/TRQ-35 receiver, operating in association with the transmitter, provides a real-time measurement of all propagating conditions in terms of signal strength for received signals and provides a display of the various received modes (those caused by the relative condition of the ionosphere). The ionogram thus permits an operator to select the optimum frequencies and the most desirable receive mode, such as F1, F2, sporadic E, and ground wave. It should be noted that the undesirable effect of multipath distortion on certain emissions such as multichannel telegraphy, may be avoided by proper selection of the receive mode (one-hop modes, for example).

(3) The AN/TRQ-35 receiver is designed to be synchronized with up to three different AN/TRQ-35 transmitters and can alternately receive transmissions from one of three separate transmitters as often as every 5 minutes. The latest ionogram and data on received signal levels versus frequencies for each of three paths are stored in memory within the receiver and can be displayed by an operator at any time to determine the propagating conditions on each path. The ionogram displayed on the receiver provides an early warning of circuit deterioration, which significantly reduces the chance of degraded or lost communications on critical communications paths.

c. **AN/TRQ-35 Spectrum Monitor.** The Spectrum Monitor is an HF receiver, processor, and display system which portrays real-time spectrum occupancy information (active frequencies) in the HF spectrum in a convenient and comprehensive manner. This unit scans the entire HF spectrum every 10 seconds, continuously updating spectrum occupancy statistics in a 5-minute and 30-minute time blocks. The spectrum monitor has been designed especially for use in selecting clear, interference-free channels within large frequency bands and is capable of separately storing and displaying data for 9333 channels of 6-kHz width in the 2-30 MHz frequency range. Features of the spectrum monitor which contribute to its simple and rapid operation are a digital readout of a center frequency on a CRT spectrum data display, and tuning controls to select various desired center frequencies. The center frequency may also be slipped across the CRT at a fast or slow rate, or in single-channel steps. A display with spectrum increments of 100 kHz or 500 kHz may be selected. Although intended principally for use in the scanning mode, the spectrum monitor includes a capability for audio monitoring of the displayed center frequency. Lower sideband (LSB), upper sideband (USB), AM, and FM detecting can be selected. Used in conjunction with the AN/TRQ-35 transmitter and receiver, the spectrum monitor will identify clear, interference-free channels within the measured propagation frequency band that can be selected for establishing or restoring communications circuits.

d. **ChirpComm Adaptors.** Chirpcomm Adaptors enable the AN/TRQ-35 test signals to be modulated and demodulated. By doing this, it is possible to give transmitters a coded identity and to pass short engineering liaison messages between AN/TRQ-35 locations. It should be noted that this modulation increases the bandwidth of the transmitted signal and may necessitate additional coordination and approval from national spectrum administrations.

104. **Set-Up Procedures.** The AN/TRQ-35 should be diplexed to the same Transmit/Receive antennae that the actual circuit is using, or one similar. When operators use one type of antenna to sound the ionosphere, and use a different antenna for actual circuit use, radiation patterns and take-off angles may change. Do not set up an alternate antenna system. To ensure compatibility of operations, to avoid problems of mutual interference with existing communications facilities, and to preclude proliferation of sounder transmitters, employment of sounder transmitters must be thoroughly coordinated through cognizant national and international authorities. The annexes to this document have been developed to assist communications planners. Annex A is a list of controlling/coordinating agencies for existing AN/TRQ-35 communities. Annex B is an alphabetical listing of all known AN/TRQ-35 transmit stations by location. Annex C is the same listing by start time. Annexes D through H provide essential information on each transmit location. To enter into the sounder community, the following general guidance is provided:

a. **Authority to Operate.** Authority to operate AN/TRQ-35 in any country rests with the host nation. The allocation of a start time does not constitute authority to operate. Requestor will use established national procedures for frequency coordination and assignment.

b. **Temporary Operations.** Temporary operations of an AN/TRQ-35 need only contain proposed transmit/receive (TX/RX) locations, geographic coordinates, and proposed sounder components. These requests may be submitted as a part of a normal or exercise frequency proposal for HF.

c. **Start Time.**

(1) To precede mutual interference, start times must be carefully coordinated. The following are the only agencies authorized to assign start times in their areas of responsibility:

Start Time Allotment (Minutes)	Area of Responsibility	Cognizant Authorities
00-01	USA, Alaska, Canada, North Atlantic, Greenland	JFP
01-03	Europe/NATO Europe	ARFA
03-04	Pacific, Asia, Indian Ocean	JFMOPAC
04-05	South Atlantic, Africa, Middle East, Central America, South America	JFP

(2) When possible, cognizant assignment authorities should select only even-second start times within their designated allotment minute(s). This is a recommended discipline to reduce the possibility of mutual interference and enhance receiver synchronization with the desired sounder stations. The AN/TRQ-35 sweep rate should not exceed four per hour.

105. POLICY FOR IONOSPHERIC SOUNDER OPERATION.

a. **Introduction.** High frequency (HF) communications systems play a vital role in satisfying command and control communications requirements of almost every nation. The ionospheric sounder affords the communications staff the ability to identify in "real time" the optimum frequencies from those assigned for use over a given circuit path. Ionospheric data also provides a large number of users with the vital information for those who are engaged in communications, direction finding, and scientific applications. This document establishes the basic standard for ionospheric sounder operations. Over the Horizon (OTH) sounder systems are exempt from this policy.

b. Worldwide Sounder Operations. Ionospheric sounder operations shall comply with this policy and with the procedures set forth in ACP-191. This policy shall be review and updated every two years, or more frequently if required.

c. Classes of Sounder Operations. Sounder transmitters shall be classified as either common-user or special-purpose.

(1) Common-User. The general distinction is that common-user transmitters are intended to constitute a common-user network of transmitters installed in a permanent location, the data from which are regularly available to all users. Designation as common-user shall be made by the United States Military Communications-Electronics Board (USMCEB) and NATO Allied Radio Frequency Agency (ARFA).

(2) Special-Purpose. Special-purpose sounder transmitters are operated to serve tactical commanders and other specialized requirements (e.g., natural disasters, contingencies, exercises, special operations, etc.) and are typically easily relocated. They will usually be more limited in operating times, emission bandwidth, antenna direction, and frequency range.

d. Common-User Sounder Network. The USMCEB and ARFA will initiate action to establish a network of common-user sounder transmitters which will operate full-time. This network is intended to provide ionospheric data to a large number of users engaged in communications, direction finding, and scientific applications. The U.S. Navy and ARFA will be the lead Service and administrator of this fixed common-user sounder network. Each transmitter in the network shall be required to provide:

(1) Full-time operation (24 hours/day, 7 days/week) with sweep intervals of 15 minutes or more.

(2) An omnidirectional antenna.

(3) Normal operating power shall be 10 watts, except for periods of initial synchronization, when 100 watts may be used.

(4) Start-sweep timing accurate to 1 microsecond, preferred, but at least to 100 milliseconds.

(5) ChirpcommTM transmission, if authorized, to identify the transmitter and to disseminate information on propagation or solar conditions, as recommended by the network administrator.

e. Special-Purpose Sounders. Special-purpose sounder transmitters shall be operated under the following guidelines:

(1) Operations 24 hours/day, 7 days/week are to be avoided. Sweep intervals of less than 15 minutes should be avoided. The transmitter shall be operated only for the duration of the contingency, special operation, or exercise.

(2) An antenna with a directional beam shall be used whenever operational requirements permit. The objective is to reduce the potential for interference.

(3) Normal operating power shall be 10 watts, except for periods of initial synchronization, when 100 watts may be used.

(4) Start-sweep timing accurate to 1 microsecond, preferred, but at least to 100 milliseconds.

(5) There shall be no more than 4 sounder transmitters operating at any time per Corps/Marine Expeditionary Force (MEF) area unless dictated by special circumstances.

f. Blanking. Sounder transmitters shall be capable of blanking a minimum of 64 discrete frequencies (32 discrete frequencies, +/- 30 kHz, for equipment put into service before 1991), with each center frequency being completely blanked over a bandwidth of at least +/- 10 kHz. In addition, each sounder put into service after 1995 shall

be capable of blanking entire bands (i.e., Aeronautical, Amateur, Broadcast, Maritime, etc.) in accordance with the ITU Table of Frequency Allocations.

- g. Centralized Management. The U.S. Air Force will manage start times and sweep/clock times for common-user ionospheric sounders and ensure their entry into ACP-191. The U.S. Air Force shall allot blocks of start times to service/agencies for special purpose operations.
- h. Chirpcomm™ Policy. Contained in agreed combined Chirpcomm policy.

106. **PROTECTION OF EMERGENCY, DISTRESS, AND SAFETY FREQUENCIES.** The final acts of MOB-WARC-87, Geneva 1987 enacted the modifications and additions in footnotes 500, 500a, 500b, 501, 505, 518a, 520, 520b, 529a, 545, and new Article 38 of ITU Radio Regulations.

- a. The following original distress frequencies were replaced by Global Maritime Distress and Safety System (GMDSS) channels: (all in kHz)

Original	New frequencies to be protected
4188	4207.5
6282	6268
8257	6312
8357.5	8291
8375	8376.5
12392	8414.5
12563	12290
16522	12577
16750	16420
	16804.5

- b. Listed below is a complete and up-to-date list of the discrete frequencies for all ITU Regions. The modifications and additions of the footnotes pertinent to the new GMDSS discreet frequencies were effective 1 July 1991. In accordance with the modifications and additions in the ITU Radio Regulation footnotes, the emergency, distress and safety discreet frequencies shall be protected from harmful interference in the applicable ITU Regions as annotated below. The following international distress and safety frequencies in support of GMDSS, frequency standard and time service, and radio astronomy service discreet frequencies shall be protected from harmful interference:

Frequency (kHz)	Remarks
2091.0	Distress and Safety (Japan only)
2174.5	Distress and Safety, Narrow Band Direct Printing (NBDP) telegraphy - (GMDSS)
2182.0 (carrier)	Distress and Safety (GMDSS)
2187.5	Distress and Safety, Digital SELCall (DSC) (GMDSS)
2500.0	Standard frequency and time
3023.0 (carrier)	Search and Rescue (GMDSS)
4000.0	Standard frequency and time (FN 516) (Region 3)
4125.0 (carrier)	Distress, Safety, Search and Rescue (GMDSS)

4177.5	Distress and Safety (NBDP) (GMDSS)
4207.5	Distress and Safety (DSC) (GMDSS)
4209.5	Meteorological, navigational warnings, urgent Info (GMDSS)
4210.0	Maritime safety information (NBDP) (GMDSS)
5000.0	Standard frequency and time
5680.0 (carrier)	Search and Rescue (GMDSS)
6215.0 (carrier)	Distress and Safety (GMDSS)
6268.0	Distress and Safety (NBDP) (GMDSS)
6312.0	Distress and Safety (DSC) (GMDSS)
6314.0	Maritime safety information (NBDP) (GMDSS)
8000.0	Standard frequency and time (FN 529) (Region 3)
10000.0	Standard frequency and time
12290.0 (carrier)	Distress and Safety (GMDSS)
12520.0	Distress and Safety (NBDP) (GMDSS)
12577.0	Distress and Safety (DSC) (GMDSS)
12579.0	Maritime safety information (NBDP) (GMDSS)
13360-13410	Fixed service/radio astronomy (Regions 1,2, and 3)
15000.0	Standard frequency and time
16000.0	Standard frequency and time (FN 536) (Region 3)
16420.0 (carrier)	Distress and Safety (GMDSS)
16695.0	Distress and Safety (NBDP) (GMDSS)
16804.5	Distress and Safety (DSC) (GMDSS)
16806.5	Maritime safety information (NBDP) (GMDSS)
19680.5	Maritime safety information (NBDP) (GMDSS)
20000.0	Standard frequency and time
21850-21870	Region 1 (R) channels in Bulgaria, Hungary, Mongolia, Poland, Czechoslovakia, and Russia
22376.0	Maritime safety information (NBDP) (GMDSS)

25000.0	Standard frequency and time
25550-25670	Radio astronomy (Regions 1, 2, and 3) FN 545
26100.5	Maritime safety information (NBDP) (GMDSS)
27524.0	Meteorological aid (Japan only)

107. **Changes.** Forward changes and additions to this publication to message address, JFP USMCEB WASHINGTON DC, or to mailing address, Chairman, US Military Communications-Electronics Board, Joint Chiefs of Staff, 6100 Joint Staff Pentagon, Washington, DC 20318-6100. Changes only to the details in the Annexes will be promulgated by message JAFPUB procedures without further reference to nations. Page changes will be promulgated as appropriate.

STATION COGNIZANT AUTHORITIES

	LETTER	MESSAGE
ARFA:	Hq NATO/IMS/CCCS Division Autoroute De Zaventem B-1110 Brussels, Belgium	ARFA BRUSSELS BE
JFP:	United States Military Communications-Electronics Board - Joint Frequency Panel (JFP USMCEB) 6100 Joint Staff The Pentagon Washington Dc 20318-6100 USA	JFP USMCEB WASHINGTON DC
SACLANT:	Supreme Allied Commander Atlantic (C-522) Norfolk 11 Norfolk VA 23511-6898 USA	SACLANT NORFOLK VA//C-522//
USEUCOM:	HQ USEUCOM (ECJ6-DF) 70569 - Stuttgart Germany	USCINCEUR VAIHINGEN GE //ECJ6-DF//
UK FORCES:	Office Of The Controller Defence Communications Network Af Rudloe Manor Hawthorn Wilts SN13OPQ United Kingdom	CDCN RAF RUDLOE MANOR
USCINCLANT:	Commander In Chief United States Atlantic Command Joint Frequency Management Office (JFMOLANT) Us Naval Base Norfolk VA 23511-6898 USA	USACOM NORFOLK VA JFMO LANT NORFOLK VA
USCINCPAC:	Commander In Chief United States Pacific Command Joint Frequency Management Office (JFMO PAC) Camp H.M. Smith Hi 96861-5025 USA	USCINCPAC HONOLULU HI

ALPHABETICAL LIST OF AN/TRQ-35 STATIONS

Location	Start Time	Sweep Time	Status
5TH SIG CMD (US), GE [H]	2:20	05,20,35,50	OC
5TH SIG CMD (US), GE [H]	2:24	10,25,40,55	OC
29 PALMS (US), CA, US [D]	0:58	00,15,30,45	OC
30 SIG REGT MBL 1 (UK), UK [H]	1:42	00,15,30,45	O
30 SIG REGT MBL 2 (UK), UK [H]	1:36	00,15,30,45	O
30 SIG REGT MBL 3 (UK), UK [H]	1:44	00,15,30,45	O
30 SIG REGT MBL 4 (UK), UK [H]	1:48	00,15,30,45	O
264 SIG SQN MBL 1(UK), UK [H]	1:52	00,15,30,45	O
264 SIG SQN MBL 2(UK), UK [H]	1:06	00,15,30,45	O
ADAK (US), AK, US [D]	0:12	05,20,35,50	O
AKROTIRI (UK), CYP [E]	1:14	00,15,30,45	O
ALDERGROVE (US), CAN [D]	0:26	00,15,30,45	O
AMERSFOORT (NL), NL[E]	2:36	00,15,30,45	OC
ANDOEYA (SACLANT), NO [E]	1:40	00,15,30,45	O
ASCENSION ISLAND (UK), ATL [G]	4:02	Every 5 Minutes	O
ASCENSION ISLAND (US), ATL [G]	0:38	05,20,35,50	O
AVON PARK (US), FL, US [D]	0:06	00,15,30,45	O
BARFORD ST. JOHN (US), UK [E]	1:30	10,25,40,55	O
BELIZE (UK), BLZ [G]	4:06	Every 5 Minutes	O
BERGSTROM AFB (US), TX, US [D]	0:40	00,15,30,45	O
BERMUDA (US), BER [G]	0:28	00,15,30,45	O
BOEBLINGEN (US), GE [E]	2:32	00,15,30,45	OC
BRUNSWICK (US), ME, US [D]	0:36	05,20,35,50	O
CAMP LEJEUNE (US), NC, US [D]	0:54	00,15,30,45	O
CAMP PENDLETON (US), CA, US [D]	0:36	00,15,30,45	OC
CANBERRA, AUS [F]	3:18	00,15,30,45	O
CECIL FIELD (US), FL US [D]	0:52	10,25,40,55	O
CHELVESTON (UK), UK [E]	1:12	00,15,30,45	O
DARWIN, AUS [F]	3:12	10,25,40,55	O
DIEGO GARCIA (US), DGA [F]	3:04	10,25,40,55	O
DIXON (US), CA, US [D]	0:16	10,25,40,55	OC
DRIVER (US), VA, US [D]	0:50	00,15,30,45	O
EDINGEN (US), GE [E]	2:48	00,15,30,45	OC
EDLESBOROUGH (UK), UK [E]	1:18	00,15,30,45	O
EGLIN AFB (US), FL, US [D]	0:00	00,15,30,45	O
EL TORO (US), CA, US [D]	0:38	00,15,30,45	OC
EXMOUTH (US), AUS [F]	3:08	05,20,35,50	O
FARNSBOROUGH (UK), UK [E]	1:04	00,15,30,45	O
GIBRALTAR (UK), GIB [E]	1:30	00,15,30,45	O
HAVELTE (NL), NL[E]	2:36	00,15,30,45	O

Legend:

() - Operating Nation O - Operational
 [] Annex T - Training

OC - On Call
 A - When Activated

ALPHABETICAL LIST OF AN/TRQ-35 STATIONS

Location	Start Time	Sweep Time	Status
HONG KONG (UK), HKG [F]	3:20	05,20,35,50	O
HQ3 COMMANDO BRIGADE MOB 1, UK [H]	2:40	00,15,30,45	O
HQ3 COMMANDO BRIGADE MOB 2, UK [H]	1:50	00,15,30,45	O
HUNTINGTON (US), NY, US [D]	0:30	00,15,30,45	OC
INSKIP, (UK), UK [E]	1:38	00,15,30,45	O
IQALIUT (CAN), NWT [D]	0:37	Every 5 Minutes	OC
ISABELA (US), PR [D]	0:42	10,25,40,55	O
IZMIR (TU), TU [E]	1:28	05,20,35,50	O
JACKSONVILLE (US), FL, US [D]	0:48	05,20,35,50	O
JAN MAYEN (SACLANT), NO [E]	1:40	10,25,40,55	O
KEFLAVIK (US), ISL[E]	0:46	05,20,35,50	O
LISBON (SACLANT), PO [E]	1:24	00,15,30,45	O
LOCKING RAF RADIO SCHOOL, UK [E]	1:46	00,15,30,45	O
LUALUALEI (US), HI, US [F]	3:10	00,15,30,45	O
MACDILL AFB (US), FL, US [D]	0:24	00,15,30,45	O
MILLTOWN (UK), UK [E]	1:22	10,25,40,55	O
MOFFETT FIELD (US), CA, US [D]	0:16	10,25,40,55	O
MORON (US), SP [E]	2:52	05,20,35,50	OC
MT PLEASANT (UK), FI [G]	4:04	Every 5 Minutes	O
NDSNCAMS WESTPAC (US), GUAM [F]	3:24	10,25,40,55	O
NEWPORT CORNER (SACLANT), CAN [D]	0:32	00,15,30,45	O
NISCEMI (US), IT [E]	2:42	00,15,30,45	O
NO 1 RADIO SCHOOL RAF, UK [E]	1:46	00,15,30,45	OC
NORTH ISLAND (US), CA, US [D]	0:20	00,15,30,45	O
PAGO PAGO (US), SMA	3:30	00,15,30,45	O
PATRICK AFB (US), FL, US [D]	0:04	00,15,30,45	OC
PATUXENT RIVER (US), MD, US [D]	0:38	00,15,30,45	OC
PIRMASENS (US), GE [E]	2:54	05,20,35,50	OC
RM POOLE MBL 1, UK [H]	1:58	00,15,30,45	O
RM POOLE MOB 2, UK [H]	2:12	00,15,30,45	O
ROBINS AFB (US), GA, US [D]	0:08	05,20,35,50	OC
SADDLE BUNCH KEYS (US), FL, US [D]	0:56	05,20,35,50	O
SAMSUN (TU), TU [E]	1:08	00,15,30,45	O
SAN TORCAZ (SP), SP [E]	2:38	00,15,30,45	O
SAN TORCAZ (SP), SP [E]	2:52	00,15,30,45	O
SAN TORCAZ (SP), SP [E]	2:56	00,15,30,45	O
SOUTH GEORGIA, (UK)	4:30	00, 15, 30, 45	O
ROYALSCHOOL OF SIGNALS, UK [E]	1:56	Every 5 Minutes	TA
SIGONELLA (US), IT [E]	2:42	00,15,30,45	OC
TCOMMWG RAF MBL 1, UK [H]	1:10	10,25,40,55	O
TCOMMWG RAF MBL 2, UK [H]	1:26	10,25,40,55	O
TCOMMWG RAF MBL 3, UK [H]	1:32	10,25,40,55	O

Legend: () - Operating Nation O - Operational
 [] Annex T - Training

OC - On Call
A - When Activated

ALPHABETICAL LIST OF AN/TRQ-35 STATIONS

Location	Start Time	Sweep Time	Status
TCOMMWG RAF MBL 4, UK [H]	2:00	10,25,40,55	O
TCOMMWG RAF MBL 5, UK [H]	1:20	10,25,40,55	O
TCOMMWG RAF MBL 6, UK [H]	1:16	10,25,40,55	O
TOULON (FR), FR [E]	2:10	00,15,30,45	O
TOTSUKA (US), J [F]	3:20	05,20,35,50	O
WAINWRIGHT AB (CAN), CAN [D]	0:34	Every 5 Minutes	OC
WAIOURU (NZ), NZ [F]	3:40	05,20,35,50	O
WARRENTON (US), VA, US	0:35	10,25,40,55	O

Legend:

() - Operating Nation O - Operational
 [] Annex T - Training

OC - On Call
 A - When Activated

START TIME LIST OF AN/TRQ-35 STATIONS

Start Time	Location	Sweep Time	Status
0:00	EGLIN AFB (US), FL, US	00,15,30,45	O
0:04	PATRICK AFB (US), FL, US	00,15,30,45	OC
0:06	AVON PARK (US), FL, US	00,15,30,45	O
0:08	ROBINS AFB (US), GA, US	05,20,35,50	OC
0:12	ADAK (US), AK, US	05,20,35,50	O
0:16	DIXON (US), CA, US	10,25,40,55	OC
0:16	MOFFETT FIELD (US), CA, US	10,25,40,55	O
0:20	NORTH ISLAND (US), CA, US	00,15,30,45	O
0:24	MACDILL AFB (US), FL, US	00,15,30,45	O
0:26	ALDERGROVE (US), CAN	00,15,30,45	O
0:28	BERMUDA (US), BER	00,15,30,45	O
0:30	HUNTINGTON (US), NY, US	00,15,30,45	OC
0:32	NEWPORT CORNER (SACLANT), CAN	00,15,30,45	O
0:34	WAINWRIGHT AB (CAN), CAN	Every 5 Minutes	OC
0:35	WARRENTON (US), VA, US	10,25,40,55	O
0:36	BRUNSWICK (US), ME, US	05,20,35,50	O
0:36	CAMP PENDLETON (US), CA, US	00,15,30,45	OC
0:37	IQALUIT (CAN), NWT	Every 5 Minutes	OC
0:38	ASCENSION (US), UK	05,20,35,50	O
0:38	EL TORO (US), CA, US	00,15,30,45	OC
0:38	PATUXENT RIVER (US), MD, US	00,15,30,45	OC
0:40	BERGSTROM AFB (US), TX, US	00,15,30,45	O
0:42	ISABELA (US), PR	10,25,40,55	O
0:46	KEFLAVIK (US), ISL	05,20,35,50	O
0:48	JACKSONVILLE (US), FL, US	05,20,35,50	O
0:50	DRIVER (US), VA, US	00,15,30,45	O
0:52	CECIL FIELD (US), FL, US	10,25,40,55	O
0:54	CAMP LEJEUNE (US), NC, US	00,15,30,45	O
0:56	SADDLE BUNCH KEYS (US), FL, US	05,20,35,50	O
0:58	29 PALMS (US), CA, US	00,15,30,45	OC
1:04	FARNBOROUGH (UK),UK	00,15,30,45	O
1:06	264(SAS) SIG SQN MBL 2(UK), UK	00,15,30,45	O
1:08	SAMSUN (TU), TU	00,15,30,45	O
1:10	TCOMMWG RAF MBL 1(UK), UK	10,25,40,55	O
1:12	CHELVESTON (UK), UK	00,15,30,45	O
1:14	AKROTIRI (UK), CYP	00,15,30,45	O
1:16	TCOMMWG RAF MBL 6(UK), UK	10,25,40,55	O
1:18	EDLESBOROUGH (UK), UK	00,15,30,45	O
1:20	TCOMMWG RAF MBL 5(UK), UK	10,25,40,55	O
1:22	MILLTOWN (UK), UK	10,25,40,55	O
1:24	LISBON (SACLANT), POR	00,15,30,45	O

Legend: () - Operating Nation

O - Operational

OC - On Call

Start Time	Location	Sweep Time	Status
1:26	TCOMMWG RAF MBL 2(UK), UK	10,25,40,55	O
1:28	IZMIR (TU), TU	05,20,35,50	O
1:30	BARFORD ST. JOHN (US), UK	10,25,40,55	O
1:30	GIBRALTAR (UK), GIB	00,15,30,45	O
1:32	TCOMMWG RAF MBL 3(UK), UK	10,25,40,55	O
1:36	30 SIG REGT MBL 2(UK), UK	00,15,30,45	O
1:38	INSKIP (UK), UK	00,15,30,45	O
1:40	ANDOEYA (SACLANT), NO	00,15,30,45	O
1:40	JAN MAYEN (SACLANT), NO	00,25,40,55	O
1:42	30 SIG REGT MBL 1(UK), UK	00,15,30,45	O
1:44	30 SIG REGT MBL 3(UK), UK	00,15,30,45	O
1:46	NO 1 RADIO SCHOOL RAF (UK), UK	00,15,30,45	OC
1:48	30 SIG REGT MBL 4 (UK), UK	00,15,30,45	O
1:50	HQ3 COMMANDO BRIGADE MOB 2, UK	00,15,30,45	O
1:52	264 SIG SQN MBL 1(UK), UK	00,15,30,45	O
1:56	ROYAL SCHOOL OF SIGNALS (UK), UK	Every 5 Minutes	TA
1:58	RM POOLE MOB 1(UK),UK	00,15,30,45	O
2:00	TCOMMWG RAF MBL 4(UK), UK	10,25,40,55	O
2:10	TOULON (FR), FR	00,15,30,45	O
2:12	RM POOLE MOB 2(UK), UK	00,15,30,45	O
2:20	5TH SIG CMD MOB 1(US), GE	05,20,35,50	OC
2:24	5TH SIG CMD MOB 2(US), GE	10,25,40,55	OC
2:32	BOEBLINGEN (US), GE	00,15,30,45	OC
2:36	AMERSFOORT (NL), NL	00,15,30,45	OC
2:36	HAVELTE (NL), NL	00,15,30,45	O
2:38	SAN TORCAZ (SP), SP	00,15,30,45	O
2:40	HQ3 COMMANDO BRIGADE MOB 1, UK	00,15,30,45	O
2:42	NISCEMI (US), IT	00,15,30,45	O
2:42	SIGONELLA (US), IT	00,15,30,45	OC
2:48	EDINGEN (US), GE	00,15,30,45	OC
2:52	MORON (US), SP	05,20,35,50	OC
2:52	SAN TORCAZ (SP), SP	00,15,30,45	O
2:54	PIRMASENS (US), GE	05,20,35,50	OC
2:56	SAN TORCAZ (SP), SP	00,15,30,45	O
3:04	DIEGO GARCIA (US), DGA	10,25,40,55	O
3:08	EXMOUTH (US), AUS	05,20,35,50	O
3:12	DARWIN, AUS	10,25,40,55	O
3:18	CANBERRA, AUS	00,15,30,45	O
3:10	LUALUALEI (US), HI, US	00,15,30,45	O
3:20	HONG KONG (UK), HKG	05,20,35,50	O
3:20	TOTSUKA (US), J	05,20,35,50	O
3:24	NDSNCAMS WESTPAC (US), GUAM	10,25,40,55	O
3:30	PAGO PAGO (US), SMA	00,15,30,45	O
3:40	WAIOURU (NZ) NZ	05,20,35,50	O
4:02	ASCENSION ISLAND (UK), ATL	Every 5 Minutes	O
4:04	RAF MT PLEASANT (UK), FI	Every 5 Minutes	O
4:06	BELIZE (UK), BLZ	Every 5 Minutes	O

Legend: () - Operating Nation O - Operational OC - On Call TA - Training/When Activated

COMMUNICATIONS AREA - NORTH AMERICA/NORTH ATLANTIC
COGNIZANT AUTHORITY: JFP

START TIME ALLOTMENT: 00-01 MIN

(1) STATION	ADAK (US), AK
STATUS	OPERATIONAL
LAT/LONG	5154N 17635W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	00 MIN 12 SEC
POWER	10 W
ADDRESS	OIC PATWGPACDET ADAK BOX 17 NAS ADAK AK FPO SEATTLE WA 98791
POC/TEL	DSN 317-692-4160/4163 COMMERCIAL (907) 592-4160/4163
(2) STATION	ALDERGROVE (US), CAN
STATUS	OPERATIONAL
LAT/LONG	490400N 1221500W
ANT/ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 26 SEC
POWER	10 W
ADDRESS	MARITIME FORCES PACIFIC HEADQUARTERS FMO ESQIMALT, BC, CA VOS 1BO ATTN: SSO COMM
POC/TEL	DSN 255-2696 COMMERCIAL (604) 380-2697
(3) STATION	AVON PARK (US), FL
STATUS	OPERATIONAL
LAT/LONG	2738N 08121W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 06 SEC
POWER	10 W
ADDRESS	71ACS MACDILL AFB FL//LGKC//
POC/TEL	DSN 968-2789

(4) STATION	BERGSTROM AFB (US), TX
STATUS	OPERATIONAL
LAT/LONG	3013N 09748W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 40 SEC
POWER	10 W
ADDRESS	12CSS DAVIS MONTHAN AFB AZ//SCO//
POC/TEL	DSN 361-5365/3929/4473
(5) STATION	BRUNSWICK (US), ME
STATUS	OPERATIONAL
LAT/LONG	455354N 0695605W
ANT ORIENT	SPIRA-CONE/OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	00 MIN 36 SEC
POWER	10 W
ADDRESS	COMPATWG 5 NAS BRUNSWICK, MA 04011
POC/TEL	DSN 476-2659/2204 COMMERCIAL (207) 921-2659
(6) STATION	CAMP LEJEUNE (US), NC
STATUS	OPERATIONAL
LAT/LONG	3440N 07720W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 54 SEC
POWER	10 W
ADDRESS	CG SECOND MARDIV
POC/TEL	DSN 484-2922
(7) STATION	CAMP PENDLETON (US), CA
STATUS	ON CALL
LAT/LONG	333329N 11725W
ANT ORIENT	WHIP/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 36 SEC
POWER	10 W
ADDRESS	SPTCO 9 COMM BN 1ST SRIG CAMP PENDLETON, CA 92055
POC/TEL	DSN 365-5368/5765 COMMERCIAL (619) 725-5368

(8) STATION	CECIL FIELD (US), FL
STATUS	OPERATIONAL
LAT/LONG	3013N 08153W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	00 MIN 52 SEC
POWER	10 W
ADDRESS	ASWOC P.O. BOX 195 CECIL FIELD, FL 32215
POC/TEL	DSN 860-5731 COMMERCIAL (904) 778-5731
(9) STATION	DIXON (US), CA
STATUS	ON CALL (BACK-UP TO MOFFETT FLD)
LAT/LONG	382215N 1214630W
ANT ORIENT	WHIP/OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	00 MIN 16 SEC
POWER	10 W
ADDRESS	NAVCOMMSTA STOCKTON CA
POC/TEL	DSN 466-7494 COMMERCIAL (944) 043-7494
(10) STATION	DRIVER (US), VA
STATUS	OPERATIONAL
LAT/LONG	3649N 07632W
ANT/ORIENT	INVERTED CONE/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 50 SEC
POWER	10 W
ADDRESS	NAVCAMSLANT NORFOLK VA
POC/TEL	DSN 564-4115
(11) STATION	EGLIN AFB (US), FL
STATUS	OPERATIONAL
LAT/LONG	3039N 08630W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 00 SEC
POWER	10 W
ADDRESS	HQ ACC LANGLEY AFB VA//SCXF//SHAW_____
POC/TEL	DSN 872-3835/9607

(12) STATION	EL TORO (US), CA
STATUS	ON CALL
LAT/LONG	333740N 1174125W
ANT/ORIENT	WHIP/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 38 SEC
POWER	10 W
ADDRESS	MWCS 38 EL TORO, CA
POC/TEL	DSN 997-2871/6661 COMMERCIAL (714) 726-2871
(13) STATION	HUNTINGTON (US), NY
STATUS	ON CALL
LAT/LONG	405302N 0732510W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 30 SEC
POWER	10 W
ADDRESS	JFMOLANT NORFOLK VA
POC/TEL	DSN 564-3241 COMMERCIAL (804) 444-3241
(14) STATUS	IQALUIT (CAN), NWT
STATUS	ON CALL
LAT/LONG	6343N 06833W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	EVERY 5 MINUTES
START TIME	00 MIN 37 SEC
POWER	10 W
ADDRESS	NDHQ OTTAWA//CSE//
POC/TEL	DSN 841-7194
(15) STATION	ISABELA (US), PR
STATUS	OPERATIONAL
LAT/LONG	1827N 06704W
ANT/ORIENT	INVERTED CONE/OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	00 MIN 42 SEC
POWER	10 W
ADDRESS	NAVCOMMSTA ROOSEVELT RDS PR
POC/TEL	DSN 831-3045

(16) STATION	JACKSONVILLE (US), FL
STATUS	OPERATIONAL
LAT/LONG	301345N 0814005W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	00 MIN 48 SEC
POWER	10 W
ADDRESS	COMPATWG 11 JACKSONVILLE, FL 32212
POC/TEL	DSN 942-4065 COMMERCIAL (904) 772-4065
(17) STATION	MACDILL AFB (US), FL
STATUS	OPERATIONAL
LAT/LONG	2751N 08229W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 24 SEC
POWER	10 W
ADDRESS	71ACS MACDILL AFB FL//LGKC//
POC/TEL	DSN 968-2789
(18) STATION	MOFFETT FIELD (US), CA
STATUS	OPERATIONAL
LAT/LONG	3725N 12203W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	00 MIN 16 SEC
POWER	10 W
ADDRESS	COMPATWG 10 MOFFETT FIELD CA 94035
POC/TEL	DSN 494-8014 COMMERCIAL (415) 966-8014
(19) STATION	NEWPORT CORNER (US), CAN
STATUS	OPERATIONAL
LAT/LONG	4458N 06359W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 32 SEC
POWER	10 W
ADDRESS	CDR MARITIME COMMAND HQS FMO HALIFAX, NS B3K 2XO
POC/TEL	ATTN: SSO COMM DSN 479-4537 CIVIL: (902)426-4537

(20) STATION	NORTH ISLAND (US), CA
STATUS	OPERATIONAL
LAT/LONG	3242N 11712W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 20 SEC
POWER	10 W
ADDRESS	ASWOC NORTH ISLAND P. O. BOX 136 NAS NORTH ISLAND SAN DIEGO CA 92135
POC/TEL	DSN 735-6834 COMMERCIAL (619) 545-6834
(21) STATION	29 PALMS (US), CA
STATUS	ON CALL
LAT/LONG	3418N 1164145W
ANT ORIENT	MONOPOLE/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 58 SEC
POWER	10 W
ADDRESS	C-E OPERATIONS SCHOOL (SCPS) MCCES 29 PALMS 29 PALMS, CA 92278-5020
POC/TEL	DSN 952-6156/6888 COMMERCIAL (619) 368-6156
(22) STATION	PATRICK AFB (US), FL
STATUS	ON CALL
LAT/LONG	2814N 08036W
ANT/ORIENT	ORTHOGONAL/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN, 04 SEC
POWER	10 W
ADDRESS	2CCGP PATRICK AFB FL//DOEF//
POC/TEL	DSN 354-7472
(23) STATION	PATUXENT RIVER (US), MD
STATUS	ON CALL
LAT/LONG	3817N 07625W
ANT ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 38 SEC
POWER	10 W
ADDRESS	NAVELEXSYSENGACT ST INIGOES, MD 20684 ATTN: Code 2172
POC/TEL	DSN 356-3512, Ext 8744 COMMERCIAL (301) 862-8744

(24) STATION

ROBINS AFB (US), GA

STATUS ON CALL
LAT/LONG 3838N 08336W
ANT/ORIENT LONGWIRE/OMNI DIRECTIONAL
SWEEP TIME 05,20,35,50
START TIME 00 MIN, 08 SEC
POWER 10 W
ADDRESS 5CCSS ROBINS AFB GA//CYPX//
POC/TEL DSN 468-3898

(25) STATION

SADDLE BUNCH KEYS (US), FL

STATUS OPERATIONAL
LAT/LONG 243850N 0813615W
ANT/ORIENT WHIP/OMNI DIRECTIONAL
SWEEP TIME 05,20,35,50
START TIME 00 MIN 56 SECS
POWER 10 W
ADDRESS NAVCOMMU KEY WEST FL
POC/TEL DSN 483-2998
COMMERCIAL (305)292-2998

(26) STATION

WAINWRIGHT AB (CAN), CAN

STATUS ON CALL
LAT/LONG 5245N 11100W
ANT/ORIENT OMNI DIRECTIONAL
SWEEP TIME EVERY 5 MINUTES
START TIME 00 MIN 34 SEC
POWER 10 W
ADDRESS NDHQ OTTAWA//CSE
POC/TEL DSN 841-7194

COMMUNICATIONS AREA - EUROPE, COGNIZANT AUTHORITY: AREA

START TIME ALLOTMENT: 01-03 MIN

(1) STATION	AKROTIRI, CYPRUS
STATUS	OPERATIONAL
LAT/LONG	3437N 03256E
ANT/ORIENT	OMNI DIRECTIONAL
CHIRPCOMM IDENT	AF
SWEEP TIME	00,15,30,45
START TIME	01 MIN 14 SEC
POWER	10 W
ADDRESS	FREQUENCY MGT CENTER 12 SIGNALS UNIT EPISKOPI, BFPO 53
POC/TEL	COMMERCIAL, CYPRUS 5765371 GPTN VIA MOD UK EXT 3197
(2) STATION	AMERSFOORT (NL), NL
STATUS	ON CALL
LAT/LONG	5210N 00520E
ANT/ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 36 SEC
POWER	10 W
MESSAGE ADDRESS	RNLACOMCMD
ADDRESS	PO-BOX 90701 2509 LS THE HAGUE, NL
POC/TEL	(0031)70-3166567
(3) STATION	ANDOEYA, NO
STATUS	OPERATIONAL
LAT/LONG	6907N 01538E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	01 MIN 40 SECS
POWER	10 W
ADDRESS	NORWEGIAN DEFENCE COMMUNICATIONS AND DATA SERVICES ADMINISTRATION (NODECA)
POC/TEL	IVSN 328-0111 EXT 261

(4) STATION	BARFORD ST. JOHN, UK
STATUS	OPERATIONAL
LAT/LONG	5300N 00121W
ANT/ORIENT	MONOPOLE/NDIR
SWEEP TIME	10,25,40,55
START TIME	01 MIN 30 SECS
POWER	10 W
ADDRESS	2130CG OLA RAF BARFORD ST JOHN//SCSRT// 2130CG RAF CROUGHTON UK//SCSRT//
POC/TEL	DSN 236-8313
(5) STATION	BOEBLINGEN (US), GE
STATUS	ON CALL
LAT/LONG	4840N 00902E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 32 SEC
POWER	10 W
ADDRESS	CDR587THSIGCO VAIHINGEN GE//ASQE-Y-V// CDR302DSIGBN KARLSRUHE GE//ASQE -Y-OCO//
POC/TEL	DSN 430-7198/8313 (SITE) DSN 430-7203 (587TH SIG COMPANY OPS) DSN 376-6233 (302D SIG BATTALION OPS)
(6) STATION	CHELVESTON, UK
STATUS	OPERATIONAL
LAT/LONG	5218N 00031W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	01 MIN 12 SEC
POWER	10 W
ADDRESS	81 SUDET CHELVESTON RAF WYTON HUNTINGDON CAMBS PE17 2EA
POC/TEL	0933-624287

(7) STATION	EDINGEN (US), GE
STATUS	ON CALL
LAT/LONG	4927N 00837E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 48 SEC
POWER	10 W
ADDRESS	CDR181STSIGCO HEIDELBERG GE//ASQE-Y-W// CDR302DSOGBN KARLSRUHE GE//ASQE-Y-OCO//
POC/TEL	DSN 370-8332 (SITE) DSN 370-7344 (181ST SIG COMPANY OPS) DSN 376-6233 (302D SIG BATTALION OPS)
(8) STATION	EDLESBOROUGH (UK), UK
STATUS	OPERATIONAL
LAT/LONG	5151N 00036W
ANT/ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	01 MIN 18 SEC
POWER	10 W
ADDRESS	2 SIGNALS UNIT RAF BAMPTON CASTLE WEALD BAMPTON OXON OX18 2HU
POC/TEL	0525-222144 EXT 7213
(9) STATION	FARNBOROUGH, UK
STATUS	OPERATIONAL
LAT/LONG	511610N 0003845W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	01 MIN 04 SEC
POWER	10 W
ADDRESS	STATION MANAGER DRE COBBETT HILL NORMANDY GUILDFORD GU3 2AA
POC/TEL	0483-234040

(10) STATION	GIBRALTAR, GIB
STATUS	OPERATIONAL
LAT/LONG	3609N 00521W
ANT/ORIENT	OMNI DIRECTIONAL
CHIRPCOMM IDENT	AD
SWEEP TIME	00,15,30,45
START TIME	01 MIN 30 SEC
POWER	10 W
ADDRESS	THE SYSTEM ENGINEER RN COMMCEN GIBRALTAR HM NAVAL BASE, GIBRALTAR
POC/TEL	COMMERCIAL GIBRALTAR 55040 GPTN VIA UK EXT 5040
(11) STATION	HAVELTE (NL), NL
STATUS	OPERATIONAL
LAT/LONG	5247N 00612E
ANT/ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 36 SEC
POWER	10 W
MESSAGE ADDRESS	RNLACOMCMD
ADDRESS	PO-BOX 90701 2509 LS THE HAGUE, NL
POC/TEL	(0031)70-3166567
(12) STATION	INSKIP, UK
STATUS	OPERATIONAL
LAT/LONG	5351N 00250W
ANT/ORIENT	OMNI DIRECTIONAL
CHIRPCOMM IDENT	AE
SWEEP TIME	00,15,30,45
START TIME	01 MIN 38 SEC
POWER	10 W
ADDRESS	FREQUENCY MGT CENTRE HMS FOREST MOOR DARLEY NR HARROGATE NORTH YORKSHIRE HG3 2RE
POC/TEL	COMMERCIAL 0423 67281 GPTN 851686 240

(13) STATION	IZMIR, TU
STATUS	OPERATIONAL
LAT/LONG	382730N 270610E
ANT/ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	01 MIN 28 SEC
POWER	10 W
ADDRESS	TELSIZ GENEL MUDURLUGU (TGM) ULASTIRMA BAKANLIGI SITESI 91.SOK 06510-ANKARA/TURKIYE
POC/TEL	90/4/2126010 EXT 206
(14) STATION	JAN MAYEN, NO
STATUS	OPERATIONAL
LAT/LONG	7036N 0843W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	01 MIN 40 SECS
POWER	10 W
ADDRESS	NORWEGIAN DEFENCE COMMUNICATIONS AND DATA SERVICES ADMINISTRATIONS (NODECA)
POC/TEL	IVSN 328-0111 EXT 2617
(15) STATION	KEFLAVIK (US), ISL
STATUS	OPERATIONAL
LAT/LONG	635906N 0223618W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	00 MIN 46 SECS
POWER	10 W
ADDRESS	COMICEDEFOR/J6/JFMO PSC 1003 BOX 1 FPO AE 09728-0301
POC/TEL	DSN 450-4313 COMMERCIAL 011 354-25-EXT 4313

(16) STATION	LISBON, POR
STATUS	OPERATIONAL
LAT/LONG	3836N 00901W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	01 MIN 24 SEC
POWER	10 W
ADDRESS	COMMANDER IN CHIEF ATLANTIC ATLANTIC AREA (CINCIBERLANT) OEIRAS, PORTUGAL
POC/TEL	IVSN 515-4526(via Northwood Exchange)

(17) STATION	MILLTOWN, UK
STATUS	OPERATIONAL
LAT/LONG	5740N 00334W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	01 MIN 22 SEC
POWER	10 W
ADDRESS	FREQUENCY MGT CENTRE 81 SUDET RAF KINLOSS MORAYSHIRE 1V36 OUH
POC/TEL	COMMERCIAL 01343-842310 GPTN 95161-7534

(18) STATION	MORON (US), SP
STATUS	ON CALL
LAT/LONG	363700N 0062100W
ANT/ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	02 MIN 52 SEC
POWER	10 W
ADDRESS	ASWOC CTG 67 ROTA SPAIN
POC/TEL	ASW WATCH OFFICER ROTA SPAIN

(19) STATION	NISCEMI, IT
STATUS	OPERATIONAL
LAT/LONG	370800N 0142600E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 42 SECS
POWER	10 W
ADDRESS	WATCH SUPVR/LCPO NRTF NISCEMI NAVCOMTELSTA SICILY
POC/TEL	DSN 624-5736
(20) STATION	NO. 1 RADIO SCHOOL RAF LOCKING
STATUS	ON CALL (TRAINING)
LAT/LONG	5120N 00254W
ANT/ORIENT	OMNI DIRECTIONAL
CHIRPCOMM IDENT	AV
SWEEP TIME	00,15,30,45
START TIME	01 MIN 46 SEC
POWER	10 W
ADDRESS	OC COMMS SQN, NO 1 RS RAF LOCKING WESTON-SUPER-MARE AVON BS24 7AA
POC/TEL	COMMERCIAL 0934 822131 EXT 7257 GPTN 8432 7257
(21) STATION	PIRMASENS (US), GE
STATUS	ON CALL
LAT/LONG	4910N 00740E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	02 MIN 54 SEC
POWER	10 W
ADDRESS	CDR327THSIGCO LANDSTUHL GE//ASQF-X-K// CDR302DSIGBN KARLSRUHE GE//ASQE-Y-OCO//
POC/TEL	DSN 495-6200/7353 (SITE) DSN 486-8645 (SIG COMPANY OPS) DSN 376-6233 (302D SIG BATTALION OPS)

(22) STATION	SAMSUN, TU
STATUS	OPERATIONAL
LAT/LONG	411753N 0361951E
ANT/ORIENTATION	WHIP/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	01 MIN 08 SEC
POWER	10 W
ADDRESS	TELSIZ GENEL MUDURLUGU (TGM) ULASTIRMA BAKANLIGI SITESI 91.SOK 06510-ANKARA/TURKIYE
POC/TEL	90/4/2126010 EXT 206
(23) STATION	SAN TORCAZ, SP
STATUS	OPERATIONAL
LAT/LONG	402841N 0031142W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 Min 38 Sec, 02 Min 52 Secs, 02 Min 56 Secs
POWER	10 W
ADDRESS	SECCION COMUNICACIONES EMA CUARTEL GENERAL ARMADA C/ MONTALBAN, 2 28014 MADRID
POC/TEL	JEFE SECCION TELECOMUNICACIONES EMA 0034-1-3795164 SAN TORCAZ (S.S.) 379-52-89
(24) STATION	ROYAL SCHOOL OF SIGNALS (UK)
STATUS	TRAINING
LAT/LONG	5052N 0211W
ANT/ORIENT	BROADBAND DIPOLE
CHIRPCOMM IDENT	AT
SWEEP TIME	EVERY 5 MINS WHEN ACTIVATED
START TIME	01 MIN 56 SEC
POWER	10 W
ADDRESS	OC RADIO GROUP THE ROYAL SCHOOL OF SIGNALS BLANDFORD CAMP BLANDFORD FORUM DORSET DT11 8RH UK
MESSAGE ADDRESS	RSS BLANDFORD
POC/TEL	COMMERCIAL 01258-482271 GPTN 8413737-2271

(25) STATION**SIGONELLA (US), IT**

STATUS	ON CALL
LAT/LONG	372400N 0145500E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 42 SEC
POWER	10 W
ADDRESS	WATCH SUPVR/LCPO ASCOMM NAVCOMMSTA SICILY
POC/TEL	DSN 624-5346/5347

(26) STATION**TOULON, FR**

STATUS	ON CALL
LAT/LONG	4308N 00604E
ANT/ORIENT	OMNI DIRECTIONAL
CHIRPCOMM IDENT	TL
SWEEP TIME	00,15,30,45
START TIME	02 MIN 10 SECS
ADDRESS	EMM/OPS/TRANS 2 RUE ROYAL 75200 PARIS NAVAL
POC/TEL	42603330 PARIS

**COMMUNICATIONS AREA - USCINCPAC
COGNIZANT AUTHORITY: JFMOPAC**

START TIME ALLOTMENT: 03-04 MIN

(1) STATION	CANBERRA, AUSTRALIA
STATUS	OPERATIONAL
LAT/LONG	3513S 14905E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	03 MIN 18 SEC
POWER	10 W
ADDRESS	NAVCOMMSTA CANBERRA, HMAS HARMAN, CANBERRA ACT 2600, AUSTRALIA
POC/TEL	COMMERCIAL 61 6 2414222
(2) STATION	DARWIN, AUSTRALIA
STATUS	OPERATIONAL
LAT/LONG	1236S 13116E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	03 MIN 12 SEC
POWER	10 W
ADDRESS	NAVCOMMSTA DARWIN, HMAS COONAWARA, PMB 13, WINNELLIE, NT 5789, AUSTRALIA
POC/TEL	COMMERCIAL 61 89 229211
(3) STATION	DIEGO GARCIA (US), DGA
STATUS	OPERATIONAL
LAT/LONG	0720S 07225E
ANT/ORIENT	MONOPOLE/OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	03 MIN 04 SEC
POWER	10 W
ADDRESS	NAVCOMMSTA DIEGO GARCIA
POC/TEL	DSN 370-2511

(4) STATION	EXMOUTH (US), AUSTRALIA
STATUS	OPERATIONAL
LAT/LONG	2154S 11407E
ANT/ORIENT	MONOPOLE/OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	03 MIN 08 SEC
POWER	10 W
ADDRESS	NDSNCOMMSTA HAROLD E. HOLT EXMOUTH AU
POC/TEL	DSN 371-1945
(5) STATION	HONG KONG (UK), HKG
STATUS	OPERATIONAL
LAT/LONG	2213N 11415E
CHIRPCOMM IDENT	AY
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	03 MIN 20 SEC
POWER	10 W
ADDRESS	OFFICER COMMANDING, 247 GURKHA SIGNAL SQUADRON, BFPO 1
POC/TEL	HONG KONG
(6) STATION	LUALUALEI (US), HI
STATUS	OPERATIONAL
LAT/LONG	212529N 1580925W
ANT ORIENTATION	INVERTED CONE/OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	03 MIN 10 SEC
POWER	10 W
ADDRESS	NDSNCAMS EASTPAC WAHIAWA, HI 96786
POC/TEL	DSN 453-0133 COMMERCIAL (808) 653-0133
(7) STATION	NDSNCAMS WESTPAC (US), GUAM
STATUS	OPERATIONAL
LAT/LONG	1328N 14448E
ANT/ORIENT	INVERTED CONE/OMNI DIRECTIONAL
SWEEP TIME	10,25,40,55
START TIME	03 MIN 24 SEC
POWER	10 W
ADDRESS	NDSNCAMS WESTPAC FPO SAN FRANCISCO 96630
POC/TEL	COMMUNICATIONS OFFICER DSN 355-5260/5375

(8) STATION	TOTSUKA (US), J
STATUS	OPERATIONAL
LAT/LONG	3524N 13932E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	03 MIN 20 SEC
POWER	10 W
ADDRESS	NDSNCOMMSTA YOKOSUKA BOX 3 FPO SEATTLE WA 98762 ATTN: TECH CONTROL OFFICER
POC/TEL	DSN 234-7508/7518 COMMERCIAL 0468-26-1911, EXT 7508/7518
(9) STATION	WAIOURU (NZ), NZ
STATUS	OPERATIONAL
LAT/LONG	39.29S 175.40E
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	03 MIN 40 SEC
POWER	10 W
ADDRESS	NZNAVCAMS PRIVATE BAG 32901 AUCKLAND NEW ZEALAND
POC/TEL	COMMERCIAL +64 9 445-5041
(10) STATION	AUKLAND, NEW ZEALAND
STATUS	O
LAT/LONG	360 47'S 1740 37'E
ANT/ORIENT	OMNI DIRECTIONAL
IDENT	WP
SWEEP TIME	00, 15, 30, 45
START TIME	3:28
POWER	10W/100W
ADDRESS	COMMUNICATIONS SQUADRON HEADQUARTERS RNZAF BASE AUCKLAND PRIVATE BAG, WHENUAPAI AUCKLAND, NEW ZEALAND
POC/TEL	+64 9 417-7000 EXT 7451
(11) STATION	AUCKLAND, NEW ZEALAND
STATUS	OC (SPECIAL PURPOSE)
LAT/LONG	360 47'S 1740 37'E AND DEPLOYABLE
ANT/ORIENT	OMNI-DIRECTIONAL
IDENT	TC
SWEEP TIME	10, 25, 40, 55
START TIME	3:35
POWER	6W/25W
ADDRESS	TACTICAL MOBILE COMMUNICATIONS FLIGHT RNZAF BASE AUCKLAND

	PRIVATE BAG, WHENUAPAI AUCKLAND, NEW ZEALAND JAF008-99
POC/TEL	COMMERCIAL +64 9 417-7000 EXT 7540
(12) STATION	AUCKLAND, NEW ZEALAND
STATUS	OC (SPECIAL PURPOSE)
LAT/LONG	360 47'S 1740 37'E AND DEPLOYABLE
ANT/ORIENT	OMNI-DIRECTIONAL
IDENT	TC
SWEEP TIME	10, 25, 40, 55
START TIME	3:52
POWER	6W/25W
ADDRESS	TACTICAL MOBILE COMMUNICATIONS FLT RNZAF BASE AUCKLAND PRIVATE BAG, WHENUAPAI AUCKLAND, NEW ZEALAND
POC/TEL	COMMERCIAL +64 9 417-7000 EXT 7540

**COMMUNICATIONS AREA - SOUTH ATLANTIC
COGNIZANT AUTHORITY: JFP**

START TIME ALLOTMENT: 04-05 MIN

(1) STATION	ASCENSION ISLAND (UK), ATL
STATUS	OPERATIONAL
LAT/LONG	0757S 01422W
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	EVERY 5 MINUTES
START TIME	04 MIN 02 SEC
POWER TIME	10 W
ADDRESS	CMDR BRITISH FORCES ASCENSION ISLAND BFPO 677
POC/TEL	N/A
(2) STATION	ASCENSION ISLAND (US), ATL
STATUS	OPERATIONAL
LAT/LONG	0755S 01424W
ANT ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	05,20,35,50
START TIME	00 MIN 38 SEC
POWER	10 W
ADDRESS	EAFC PATRICK AFB FL 32925
POC/TEL	DSN 854-5367 COMMERCIAL (407) 494-5367
(3) STATION	BELIZE (UK), CAM (CENTRAL AMERICA)
STATUS	OPERATIONAL
LAT/LONG	1752N 08818W
CHIRPCOMM IDENT	AX
ANT/ORIENT	OMNI DIRECTIONAL
SWEEP TIME	EVERY 5 MINUTES
START TIME	04 MIN 06 SEC
POWER	10 W
ADDRESS	OFFICER COMMANDING, 633 SIGNAL TP, BFPO 12

(4) STATION	BERMUDA (US), BER
STATUS	OPERATIONAL
LAT/LONG	3215N 06451W
ANT ORIENTATION	OMNI DIRECTIONAL
SWEEP TIME	00,15,30,45
START TIME	00 MIN 28 SEC
POWER	10 W
ADDRESS	ASWOC BERMUDA USNAS P.O. BOX 3133 FPO N.Y., N.Y. 09560
POC/TEL	DSN 578-6216/6288 COMMERCIAL 809-293-6216
(5) STATION	RAF MT PLEASANT (UK), FI
STATUS	OPERATIONAL
LAT/LONG	5145S 05756W
ANT/ORIENT	OMNI DIRECTIONAL
CHIRPCOMM IDENT	AC
SWEEP TIME	EVERY 5 MINUTES
START TIME	04 MIN 04 SEC
POWER	10 W
ADDRESS	FREQUENCY MGT CENTRE RAF MT PLEASANT BFPO 666
POC/TEL	N/A

MOBILE TRANSMITTERS

(1) STATION: **RM POOLE, MOBILES, UK**

CONTROLLING AUTHORITY CDCN (RAF RUDLOE MANOR)
 STATUS OPERATIONAL
 LAT/LONG N/A UNTIL DEPLOYED
 ANT/ORIENT SLOPING VEE-DIRECTIONAL

	<u>MOB 1</u>	<u>MOB 2</u>
CHIRPCOMM IDENT	AU	BB
SWEEP TIME	00,15,30,45	00,15,30,45
START TIME	01 Min 58 Sec	02 Min 12 Sec

POWER 10 W
 ADDRESS RM POOLE
 HAMWORTHY
 POOLE
 BH15 4NQ

POC/TEL COMMERCIAL 0993-842551 EXT 6156
 GPTN 846 6156

(2) STATION: **TCOMMWG RAF MOBILES, UK**

CONTROLLING AUTHORITY CDCN (RAF RUDLOE MANOR)
 STATUS OPERATIONAL
 LAT/LONG N/A UNTIL DEPLOYED
 ANT/ORIENT SLOPING VEE-DIRECTIONAL

	<u>MOB1</u>	<u>MOB2</u>	<u>MOB3</u>
CHIRPCOMM IDENT	AB	AL	AN
SWEEP TIME	10,25,40,55	10,25,40,55	10,25,40,55
START TIME	01 Min 10 Sec	01 Min 26 Sec	01 Min 32 Sec

	<u>MOB4</u>	<u>MOB5</u>	<u>MOB6</u>
CHIRPCOMM IDENT	AP	AI	AO
SWEEP TIME	10,25,40,55	10,25,40,55	10,25,40,55
START TIME	02 Min 00 Sec	01 Min 20 Sec	01 Min 16 Sec

POWER 10 W
 ADDRESS OC TCW
 RAF BRIZE NORTON
 OXFORD OX18 3LX

POC/TEL COMMERCIAL 0993-842551 EXT 6156
 GPTN 95461-6156

(3) STATION:	5TH SIG CMD (US), GE	
STATUS	ON CALL	
LAT/LONG	VARIOUS	
ANT/ORIENTATION	OMNI DIRECTIONAL	
	<u>MOB 1</u>	<u>MOB 2</u>
SWEEP TIMES	05,20,35,50	10,25,40,55
START TIMES	02 Min 20 Sec	02 Min 24 Sec
POWER	10 W	
ADDRESS	CDR5THSIGCMD WORMS GE//ASQE OP-OF//	
POC/TEL	DSN 383-7251 COMMERCIAL 00-49-6241 48 7251	
(4) STATION:	30 SIGREGT - MOBILES, UK	
CONTROLLING AUTHORITY	CDCN (RAF RUDLOE MANOR)	
STATUS	OPERATIONAL	
LAT/LONG	N/A UNTIL DEPLOYED	
ANT/ORIENT	SLOPING VEE-DIRECTIONAL	
	<u>MOB1</u>	<u>MOB2</u>
CHIRPCOMM IDENT	AM	AQ
SWEEP TIME	00,15,30,45	00,15,30,45
START TIME	01 Min 42 Sec	01 Min 36 Sec
	<u>MOB 3</u>	<u>MOB 4</u>
CHIRPCOMM IDENT	AR	AS
SWEEP TIME	00,15,30,45	00,15,30,45
START TIME	01 Min 44 Sec	01 Min 48 Sec
POWER	10 W	
ADDRESS	OPS OFFICER 30 SIG REGT GAMECOCK BARRACKS BRAMCOTE NUNEATON WARWICKSHIRE	
POC/TEL	COMMERCIAL 0121-3211-2555 GPTN 94742-2555	

(5) STATION: **264 SIG SQN - MOBILES, UK**

CONTROLLING AUTHORITY CDCN (RAF RUDLOE MANOR)
 STATUS OPERATIONAL
 LAT/LONG N/A UNTIL DEPLOYED
 ANT/ORIENT SLOPING VEE-DIRECTIONAL

	<u>MOB 1</u>	<u>MOB 2</u>
CHIRPCOMM IDENT	AK	AW
SWEEP TIME	00,15,30,45	00,15,30,45
START TIME	01 Min 52 Sec	01 Min 06 Sec

POWER 10 W
 ADDRESS 264 SIGNAL SQUADRON
 STIRLING LINES
 HEREFORD HR2 6HF
 POC/TEL COMMERCIAL 04357311 2247
 GPTN 800747 2247

(6) STATION: **HQ3 COMMANDO BRIGADE**

CONTROLLING AUTHORITY CDCN (RAF RUDLOE MANOR)
 STATUS OPERATIONAL
 LAT/LONG N/A UNTIL DEPLOYED
 ANT/ORIENT SLOPING VEE-DIRECTIONAL

	<u>MOB 1</u>	<u>MOB 2</u>
CHIRPCOMM IDENT	BC	BD
SWEEP TIME	00,15,30,45	00,15,30,45
START TIME	02 Min 40 Sec	01 Min 50 Sec

POWER 10 W
 ADDRESS HQ 3 COMMANDO BRIGADE
 RM BARRACKS STONEHOUSE
 PLYMOUTH
 DEVON PL1 3QS
 POC/TEL 0752 836333

AN/TRQ-35 RECEIVER IDENTITIES

UK Station	Ident
81 SU BAMPTON CASTLE	01
81 SUDET KINLOSS	02
12 SU CYPRUS	03
RAF MOUNT PLEASANT	04
SCHOOL OF SIGNALS BLANDFORD	05
NO 1 RADIO SCHOOL RAF LOCKING	06
FOREST MOOR	07
GIBRALTAR	08
2 SU BAMPTON CASTLE	09

UK Mobile Receivers

TCOMMWG BRIZE NORTON	30 MOBILE 1
TCOMMWG BRIZE NORTON	31 MOBILE 2
TCOMMWG BRIZE NORTON	32 MOBILE 3
TCOMMWG BRIZE NORTON	33 MOBILE 4
30 SIGREGT	20 MOBILE 1
30 SIGREGT	21 MOBILE 2
30 SIGREGT	22 MOBILE 3
30 SIGREGT	23 MOBILE 4
264 SIGSQN	24 MOBILE 1
264 SIGSQN	34 MOBILE 2
RM POOLE	25 MOBILE 1
RM POOLE	26 MOBILE 2
3 CDOBDERM	27 MOBILE 1
3 CDOBDERM	29 MOBILE 2

UK HM SHIPS

1. A number of HM ships are fitted with an/trq-35 receivers which are transferred between units as directed by CINCFLEET. HM ship an/trq-35 receiver identities will run from 40 onwards. Details of ships fitted can be obtained from CINCFLEET engineering staff (HM naval base Portsmouth ext.: 23866/23662).

US STATIONS

RHEIN MAIN AB GE

- SACLANT HQ has four chirpsounder suites (AN/TRQ-35) which are transferred between NATO Commands/units as directed by SACLANT HQ. Bids and details of units (ships) fitted can be obtained from SACLANT HQ Norfolk, VA. IVSN 555-3522 Commercial (804) 445-3522.
- SACLANT HQ POC: C-502, IVSN 555-3522, DSN 656-3522 and Commercial (804) 445-3522.

LIST OF EFFECTIVE PAGES

Subject Matters	Page Numbers
Title Page	I
Foreword	II
Letter of Promulgation	III
Record of Message Corrections	IV
Table of Contents	V
General Instructions	1-1 to 1-7
Annex A	A-1
Annex B	B-1 to B-3
Annex C	C-1 to C-2
Annex D	D-1 to D-7
Annex E	E-1 to E-9
Annex F	F-1 to F-4
Annex G	G-1 to G-2
Annex H	H-1 to H-3
Annex I	I-1
List of Effective Pages	LEP-1