

Attachment A, Comms Forms

*Attachment A of the 1998-99 season plans lists the, types, schedules
and frequencies of telecommunications equipment used by the United
States Antarctic Program.*

INFORMATION ON TELECOMMUNICATIONS EQUIPMENT AND SCHEDULES FOR THE YEAR 1998-99

COUNTRY United States of America
STATION McMurdo
CALL SIGN NGD

ADDRESS FOR CORRESPONDENCE ON THIS INFORMATION:

LATITUDE 77°55'S **LONGITUDE** 166°39'E

OFFICE OF POLAR PROGRAMS
 NATIONAL SCIENCE FOUNDATION
 ARLINGTON, VA 22230

TRANSMITTERS				RECEIVERS				REMARKS
TYPE	FREQUENCY BANDS	TYPES OF TRANSMISSION AND POWER	FREQUENCY SELECTION (CRYSTAL VFO, etc.)	TYPE	FREQUENCY BANDS	TYPES OF RECEPTION AVAILABLE	FREQUENCY SELECTION (CRYSTAL VFO, etc.)	
AN/FRT-83	2-30 MHz	1K08F1B, 3K00J3E 1K24F1B, 100H0A1A 1KW	SYNTHESIZED					
AN/FRT-84	2-30 MHz	1K24F1B, 100H0A1A 3K00J3E, 4K00F3C 6K00A3E, 6K00B9W 10KW	SYNTHESIZED					
AN/GRT-21 AN/GRT-22	116-149.95 MHz 225-399.95 MHz	6K00A3E, 10W 6K00A3E, 10W	SYNTHESIZED SYNTHESIZED	AN/GRR-23 AN/GRR-24	116-149.95 MHz 255-399.95 MHz	6K00A3E 6K00A3E	CRYSTAL CRYSTAL	
AN/URC-110	225-399.995 MHz	30K0F3E/20W	SYNTHESIZED	AN/URC-110	225-399.995 MHz	30K0F3E	SYNTHESIZED	
AN/GRC-211 AN/GRC-171	116-149.95 MHz 225-399.95 MHz	25W 20W	SYNTHESIZED SYNTHESIZED	AN/GRC-211 AN/GRC-171	116-149.95 MHz 225-399.95 MHz	6K00A3E 6K00A3E	SYNTHESIZED SYNTHESIZED	
RT-100	2-30 MHz	100H0A1A, 3K00J3E 100W	SYNTHESIZED	RT-100	2-30 MHz	100H0A1A, 3K00J3E	SYNTHESIZED	
RT-7000	2-30 MHz	100H0A1A, 3K00J3E	SYNTHESIZED	RT-7000	2-30 MHz	100H0A1A, 3K00J3E	SYNTHESIZED	
AN/PRC-1099	2-30 MHz	100H0A1A, 3K00J3E, 20W	SYNTHESIZED	AN/PRC-1099	2-30 MHz	100H0A1A, 3K00J3E	SYNTHESIZED	
AN/LST-5B	225-399.95 MHz	30K0F3E/20W	SYNTHESIZED	AN/LST-5B	225-399.995 MHz	30K0F3E	SYNTHESIZED	
SR-210	1.6-30 MHz	100H0A1A, 3K00J3E 150W	CRYSTAL	SR-210	1.6-30 MHz	100H0A1A, 3K00J3E	CRYSTAL	
DRAKE TR-7	2-30 MHz	100H0A1A, 3K00J3E	VFO	DRAKE TR-7	2-30 MHz	100H0A1A, 3K00J3E	VFO	

INFORMATION ON TELECOMMUNICATIONS EQUIPMENT AND SCHEDULES FOR THE YEAR 1998-96**COUNTRY** United States of America**ADDRESS FOR CORRESPONDENCE ON THIS INFORMATION:**OFFICE OF POLAR PROGRAMS
NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230**STATION** McMurdo**CALL SIGN** NGD**LATITUDE** 77°55'S **LONGITUDE** 166°39'E

ANTENNA			FACSIMILE		TELEPRINTER		REMARKS	LIST OF AVAILABLE FREQUENCIES
TYPE	AZIMUTH (IN DEGREES OR OMNI)		INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		
RHOMBIC	088T	T	9165L/AE I of C N/A	120/240 (scans per minute vice rpm)	KPDT-3 (MOD-40)	75	"ANTARCTIC BROADCAST"	11.004, 8.090, 6.397, 4.872, 2.650, 5.810
RHOMBIC	088T	T						
RHOMBIC	146T	T						
RHOMBIC	220T	T			KPDT-3 (MOD-40)	50-75	AA-2"INTERNATIONAL ANTARCTIC COMMON"	12.225, 13.590, 16.225, 5.8675, 7.6695, 9.830, 10.865
CONICAL MONOPOLE	OMNI	T	9271D/H/AE I of C N/A	120/240 RPM	KPDT-3 (MOD-40)	75	HF COMMUNICATIONS	2.525, 2.831., 3.210, 4.0125, 4.1474, 4.242, 4.755, 4.7715, 5.030, 5.386, 6.012, 6.767, 7.469, 7.875, 7.9965, 8.2954, 8.2984, 8.420, 8.678,
ROSETTE ARRAY	DIRECTIONAL	R						
END-FIRE ARRAY	088T	T						
CONICAL MONOPOLE	OMNI	T/R						
RHOMBIC	088T/146T/220T				KPDT-3 (MOD-40)	75	HF COMMUNICATIONS	9.0075, 9.073, 9.110, 9.215, 10.235, 10.516, 11.156, 11.1925, 11.508, 11.5545, 12.029, 12.0985, 12.3544, 12.3574, 12.457, 12.630, 13.490, 13.5515, 13.874, 14.777, 14.805, 15.564, 15.889, 16.152, 16.2235, 17.4545, 17.494

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STATION McMurdo
CALL SIGN NGD
LATITUDE 77°55'S **LONGITUDE** 166°39'E

STATION WORKED	GMT		FREQUENCIES USED		CIRCUIT CONDUCT			REMARKS	
	OPEN	CLOSE	TRANSMITTING	RECEIVING	TYPE OF EMISSION (See ccir 432) (X)	TYPE OF TRAFFIC	SX OR DX		SIDE BAND
SOUTH POLE	OCT-- ON MAR-- 2000-- DAILY SUN-	--NOV CALL --OCT --2130 LESS DAY	2650 5810 6397 8090 11004 4872 11554.5 8998.5 13252.5	7340 - P&SP 7750 - P&SP 9073 - P&SP 13551.5 - P&SP	1.24F1 3A3J 3A3J	ALL SYNOPS HOURLIES (AS REQUIRED) TERMINAL VOICE VOICE	DX SX SX		
PALMER	SAME AS ABOVE		SAME AS ABOVE		SAME AS ABOVE			SAME AS ABOVE	
INMARSAT COASTAL EARTH STATION SANTA PAULA, CA	TIME OPEN 18 HR. PER DAY. START AND STOP CHANGES WITH PERCESSION OF SATELLITE.		1.636-1.654 GHz	1.535-1.543 GHz	VOICE/DATA/ FACSIMILE				

INFORMATION ON TELECOMMUNICATIONS EQUIPMENT AND SCHEDULES FOR THE YEAR 1998-99
COUNTRY United States of America
ADDRESS FOR CORRESPONDENCE ON THIS INFORMATION:
STATION Palmer
CALL SIGN NHG
LATITUDE 64°46'S
LONGITUDE 64°05'W

 OFFICE OF POLAR PROGRAMS
 NATIONAL SCIENCE FOUNDATION
 ARLINGTON, VA 22230

TRANSMITTERS				RECEIVERS				REMARKS
TYPE	FREQUENCY BANDS	TYPES OF TRANSMISSION AND POWER	FREQUENCY SELECTION (CRYSTAL VFO, etc.)	TYPE	FREQUENCY BANDS	TYPES OF RECEPTION AVAILABLE	FREQUENCY SELECTION (CRYSTAL VFO, etc.)	
GX23205 STANDARD MARINE	156-162 MHz 55 CHANNEL	16K0F3E/25W	SYNTHESIZED	STANDARD MARINE	156-162 MHz 55 CHANNEL	16K0F3E	SYNTHESIZED	MONITOR Ch16 & 27 NDB (NOT OPERATIONAL)
SUNAIR LINEAR AMP GSL-1900A	1.6-30 MHz	3K00J3E/1 KW		SUNAIR GSB-900DX TRANSCIEVER	1.6-3.0 MHz	3K00J3E 3K00J1D	SYNTHESIZED	AX.25
SUNAIR GSB-900DX TRANSCIEVER	1.6-30 MHz	3K00J3E, 3K00J1D 100W	SYNTHESIZED	ICOM R 70	0.1-30 MHz	3K00J3E	SYNTHESIZED	
MOTOROLA MSR-2000	161.950 MHz	16F3/112W	CRYSTAL	MOTOROLA MSR-2000	157.350 MHz	16F3	CRYSTAL	CARRIER ACCESS REPEATER
MOTOROLA MICOR	149.195 MHz CH 2 149.163 MHz CH 6A 149.283 MHz CH 6B 149.245 MHz CH 4	16F3/375W	CRYSTAL	MOTOROLA MICOR	135.575 MHz CH 2 135.543 MHz CH 6A 135.663 MHz CH 6B 135.625 MHz CH 4	16F3	CRYSTAL	ATS-3
NERA Saturn Bm	1636.5 MHz 1645.0 MHz	F9	SYNTHESIZED	NERA Saturn Bm	1535.0 MHz to 1543.5 MHz	F9	SYNTHESIZED	INMARSAT TERMINAL
Univ. of Miami LES-9 Transceiver	303.4625 MHZ	??*/20W	SYNTHESIZED	Univ. of Miami LES-9 Transceiver	249.5625 MHZ	???	SYNTHESIZED	LES-9
Kenwood TS450S Transceiver	2-30 MHZ	100H0A1A, 3K00J3E 100W	SYNTHESIZED	Kenwood TS450S	2-30 MHZ	100H0A1A, 3K00J3E	SYNTHESIZED	Amateur Radio
Kenwood TS922A Linear Amplifier	2-30 MHZ	100H0A1A, 3K00J3E 1KW	SYNTHESIZED					

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STATION Palmer
CALL SIGN NHG
LATITUDE 64°46'S **LONGITUDE** 64°05'W

STATION WORKED	GMT		FREQUENCIES USED		CIRCUIT CONDUCT			REMARKS
	OPEN	CLOSE	TRANSMITTING	RECEIVING	TYPE OF EMISSION (See ccir 432) (X)	TYPE OF TRAFFIC	SX OR DX	
MCMURDO SOUTH POLE	DEC-- 1100 Daily Satur-	-MAR 0000 ly --OCT 0000 less local day	2831.5 4771.5 7996.5 (Primary) 11554.5 (Primary) 26101.5	2831.5 4771.5 7996.5 8975.5 11554.5 26101.5	3A3J	VOICE - INTER-STATION		USB SUPPRES -SED CARRIER
MCMURDO SOUTH POLE	AS REQUIRED		8998.5 (Primary) 13252.5 (Second.) 11256.5 (Tertiary) 4719.5 (Alt. 5727.5 on 6709.5 call)	8998.5 13252.5 11256.5 4719.5 5727.5 6709.5	3A3J	VOICE - AIRCRAFT		USB SUPPRES -SED CARRIER
MCMURDO SOUTH POLE	AS REQUIRED		2182 8364 3023.5	2182 8364 3023.5	3A3J	DISTRESS AND CALLING/SEARCH AND RESCUE		USB
ROTHERA	1130 1730 2330 DAI	1135 1735 2335 LY	3186 (Second.) 4553 (Primary)	3186 4553	16F3 3A3J	WEATHER SYNOPTIC GROUPS		USB USB USB
COPACABANA, SEAL IS., CAPE SHERIFF	OCT- 0000 Z DAI	MAR 0030 Z LY	4125 (Primary) 4131 (Secondary)	4125 4131	3A3J	VOICE		USB

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ARLINGTON, VA 22230**STATION** Palmer**CALL SIG** NHG**LATITUDE** 64°46'S **LONGITUDE** 64°05'W

ANTENNA		FACSIMILE		TELEPRINTER		REMARKS	LIST OF AVAILABLE FREQUENCIES
TYPE	AZIMUTH (IN DEGREES OR OMNI)	INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		
SLOPING "V"	3400					HF (long distance)	2-30 MHz
CONICAL MONOPOLE	OMNI					HF (local ops.)	2-30 MHz
J-POLE (2)	OMNI					VHF (local ops.)	155-163 Mhz
CROSS POLARIZATION YAGI	ATS-3 SATELLITE 3150					DUAL ARRAY VOICE TRANSMIT	149 MHz
CROSS POLARIZATION YAGI	ATS-3 SATELLITE 3150					DUAL ARRAY VOICE RECEIVE	135MHz
CROSS POLARIZATION YAGI	LES-9 SATELLITE 3140					DUAL ARRAY DATA TRANSMIT	303MHz
CROSS POLARIZATION YAGI	LES-9 SATELLITE 3140					DUAL ARRAY DATA RECEIVE	249MHz
HF YAGI (TRI-BAND)	ROTATABLE					AMATEUR/MARS/HAM	14, 21, 28 MHz
PARABOLIC DISH	IMMARSAT SATELLITE					MARISAT, VOICE, DATA, TELEX	1.5-1.6 GHz
860' RHOMBIC	1950					HF primary, MCMURDO + POLE, VOICE + RATT	2-30 MHz design center = 11,553 kHz
COAXIAL	OMNI					VHF LOCAL AIR-GROUND	116-135 MHz
VHF MARINE WHIP	OMNI					VHF Marine Repeater Primary & Secondary for local boating ops.	155-163 MHz
5 ELEMENT COAXIAL	OMNI					VHF MARINE BASE	155-163 MHz

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ANTENNA		FACSIMILE		TELEPRINTER		REMARKS	LIST OF AVAILABLE FREQUENCIES
TYPE	AZIMUTH (IN DEGREES OR OMNI)	INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		
ENCLOSED MONOPOLE	OMNI					NOAA ARGOS relay for J-275	401.650 MHz
ENCLOSED 1.2M STEERABLE DISH	STEERABLE					TERA SCAN WEATHER DATA RX FOR T-312	1707 + 2240 MHz

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STATION Amundsen-Scott South Pole

OFFICE OF POLAR PROGRAMS
NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230

CALL SIGN NPX

LATITUDE 90° S

LONGITUDE _____

TRANSMITTERS				RECEIVERS				REMARKS
TYPE	FREQUENCY BANDS	TYPES OF TRANSMISSION AND POWER	FREQUENCY SELECTION (CRYSTAL VFO, etc.)	TYPE	FREQUENCY BANDS	TYPES OF RECEPTION AVAILABLE	FREQUENCY SELECTION (CRYSTAL VFO, etc.)	
MACKAY MSR 8000D	1.6-30 MHz 10 Channel	3K00J3E 6K00A3E 100HA1A 1KW	SYNTHESIZED	MACKAY MSR 8000	1.6-30 MHz	3K00J3E 6K00A3E 100HA1A	SYNTHESIZED	
ICOM 735	1.6-30 MHz 20 Channel	3K00J3E 6K00A3E 100HA1A 100W	SYNTHESIZED	ICOM R70 ICOM IC-735	0.1-30 MHz 0.1-30 MHz	3K00J3E 6K00A3E 100HA1A	VFO VFO	
Motorola Maxar Transceiver	135.5-149.3 MHz 4 Channel	16F3/20W	CRYSTAL	Motorola Maxar Transceiver	135.5-149.3 4 Channel	15K00FZD		
REPCO Exciter	149.282	4F3/1W	CRYSTAL	Hamtronics	135.57 MHz	4F3	CRYSTAL	ATS-3
Kenwood TM-721 Transceiver with Mirage/KLM Amplifier	130-150 MHz 430-460 MHz	F3/300W	SYNTHESIZED	Kenwood TM-721 Kenwood R-5000	130-150 MHz 0.1-30 MHz	15K00F2D 3K00J3E 6K00A3A 100HA1A	SYNTHESIZED VFO	ATS-3
Kenwood TH25	140-150 MHz	F3 / 3W	SYNTHESIZED	Kenwood TH25	140-150 MHz	F3	SYNTHESIZED	
ABA Transmit.	1.5-5.26 Hz	90K00G2W/50W	SYNTHESIZED	ICOM-735	0-30 MHz	4F4, 6A3B, 6A9B		
Kenwood TH45	440-450 MHz	F3 / 3W	SYNTHESIZED	Kenwood TH45	440-450 MHz	F3	SYNTHESIZED	
RITRON	450 MHz	F3 / 7W	CRYSTAL	RITRON	450 MHz	F3	CRYSTAL	

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ARLINGTON, VA 22230**STATION** Amundsen-Scott South Pole**CALL SIGN** NPX**LATITUDE** 90° S **LONGITUDE** _____

ANTENNA			FACSIMILE		TELEPRINTER		REMARKS	LIST OF AVAILABLE FREQUENCIES
TYPE	AZIMUTH (IN DEGREES OR OMNI)		INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		
RHOMBIC	167 T	T/R					HF COMMUNICATIONS	0-30 MHz
RHOMBIC	167 T	T/R					HF COMMUNICATIONS	0-30 MHz
SLOPING V	64 T	T/R					HF COMMUNICATIONS	0-30 MHz
CONICAL MONOPOLE	OMNI	R					ANTARCTIC BROADCAST	0-30 MHz
CONICAL MONOPOLE	OMNI	T/R					HF COMMUNICATIONS	0-30 MHz