

## Attachment A, Comms Forms

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*Attachment A of the 2007-2008 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 2007-2008**

 OFFICE OF POLAR PROGRAMS  
 NATIONAL SCIENCE FOUNDATION  
 ARLINGTON, VA 22230

**COUNTRY** United States of America
**ADDRESS FOR CORRESPONDENCE ON THIS INFORMATION:**
**STATION** McMurdo
**CALL SIGN** NGD
**LATITUDE** 77°55'S **LONGITUDE** 166°39'E

ANTENNA			FACSIMILE		TELEPRINTER		REMARKS	
TYPE	AZIMUTH (IN DEGREES OR OMNI)		INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		LIST OF AVAILABLE FREQUENCIES
RHOMBIC	088T	T	9165L/AE I of C N/A	120/240 (scans per minute vice rpm)	KPDT-3 (MOD-40)	75	US-14 ANTARCTIC BROADCAST/RATT WORKING	2650 2648.0 KHz, 4872 4870.0 KHz, 5810 5808.0 KHz, 6397 6395.0 KHz, 8092 8088.0 KHz (8090 is assigned freq), 11004 11002 KHz, 16321.5 16320 KHz
RHOMBIC	088T	T						
RHOMBIC	146T	T						
RHOMBIC	220T	T			KPDT-3 (MOD-40)	50-75	US-17 ITERNATIONAL ANTARCTIC COMMON	4771.5 4770.0 KHz, 7996.5 7995.0 KHz, 9007.5 9005.0 KHz, 11554.5 11553.0 KHz

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ANTENNA			FACSIMILE		TELEPRINTER		REMARKS		
TYPE	AZIMUTH (IN DEGREES OR OMNI)		INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		LIST OF AVAILABLE FREQUENCIES	
7 CONICAL MONOPOLES	OMNI	T	9271D/H/AE I of C N/A	120/240 RPM	KPDT-3 (MOD-40)	75	US-4 SHIP SHORE*	2026.42025.0 KHz, 2717.42716 KHz , 3248.43247.0 KHz, 8298.48297.0 KHz, 12345.4 12353 (assigned freq should 12354.4), 12357.4 12356.0 KHz	
ROSETTE ARRAY	DIRECTIONAL	R					US-5 LONG RANGE AIR TO GROUND*		4719.5 4718.0 KHz, 5727.5 5736.0 KHz, 6709.56708.0 KHz , 90349033.0 KHz , 11257.511255.0 KHz (original should be 11256.6 ) 13252.513251.0 KHz
END-FIRE ARRAY	088T	T					US-6 AIR TO GROUND WEATHER*		1064110639.0 KHz , 1222212220.0 KHz, 1470014698.0 KHz
							US-9 AIR TO SHIP*	3103.5 3120.0 KHz d, 5697.5 5696.0 KH	
							US-15 ANTARCTIC SHIP TO SHORE*	42424240.0 KHz, 84208418.0 KHz, 1263012628.0 KHz	

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STATION McMurdo  
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LATITUDE 77°55'S LONGITUDE 166°39'E

ANTENNA		FACSIMILE		TELEPRINTER		REMARKS	
TYPE	AZIMUTH (IN DEGREES OR OMNI)	INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		LIST OF AVAILABLE FREQUENCIES
						US-16 ANTARCTIC BROADCAST/RATT WORKING*	2572 2570.0KHz 4147.44146.0 KHz 6225.46224.0 KHz 6365.5 6364.0 KHz 7340 7338.0 KHz 77507 77505.0 KHz 8298.4 8297.0 KHz 8678 8676.0 KHz 9073 9071.0 KHz 11156 11254.0 KHz 12098 12097.0 KHz (assigned is 12098.5) 12457 12455.0 KHz 133551.512550.0 KHz 1480514803.0 KHz 16860 16858.0 KHz 16529.4 16528.0 KHz
						AA-1 DISTRESS AND CALLING SAR*	2183.42182.0 KHz, 3023.53022.0 KHz, 41274125.0 KHz, 83648362.0 KHz
						USB 2*	2717.4 2716.0 KHz

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ANTENNA		FACSIMILE		TELEPRINTER		REMARKS	
TYPE	AZIMUTH (IN DEGREES OR OMNI)	INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		LIST OF AVAILABLE FREQUENCIES
CONICAL MONOPOLE	OMNI T/R			KPDT-3 (MOD-40)	75		
RHOMBIC	088T/146T/220T				75		

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ANTENNA		FACSIMILE		TELEPRINTER		REMARKS	
TYPE	AZIMUTH (IN DEGREES OR OMNI)	INDEX OF COOPERATION	DRUM SPEED	TYPE	SPEED (bauds)		LIST OF AVAILABLE FREQUENCIES
7 METER DISH	VARIABLE					BI TDRSS (NASA)	KU BAND
11 METER DISH	VARIABLE					BI USES	C BAND
2 METER DISH	VARIABLE					BI INMARSAT	L BAND
10 METER DISH	VARIABLE					MCMURDO NASA MGS	S,KU BAND
CONICAL MONOPOLE	OMNI DIRECTIONAL					BI HF RCV	1.6-30 MHz
LOG PERIODIC	146					BI HF RCV PALMER	1.6-30 MHz
RHOMBIC	88					BI HF RCV CHCH	1.6-30 MHz
RHOMBIC	266					BI HF RCV POLE	1.6-30 MHz

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

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.)	
CM-200VT CM-200UT	116-149.95 MHz 225-399.95 MHz	6K00A3E, 10W 6K00A3E, 10W	SYNTHESIZED SYNTHESIZED	CM-200VR CM-200UR	116-149.95 MHz 255-399.95 MHz	6K00A3E 6K00A3E	CRYSTAL CRYSTAL	
AN/LST-5C	225-399.995 MHz	25K0F3E/20W	SYNTHESIZED	AN/LST-5C	225-399.995 MHz	25K0F3E	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-5C	225-399.95 MHz	25K0F3E/20W	SYNTHESIZED	AN/LST-5C	225-399.995 MHz	25K0F3E	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	
CUBIC T4150	1.6-30MHz	100H0A1A, 3K00J3E 1KW	SYNTHESIZED	CUBIC LCR2000	1.6-30 MHz	100H0A1A, 3K00J3E	SYNTHESIZED	
NASA TDRSS EARTH STATION	KU BAND		SYNTHESIZED	NASA TDRSS	KU BAND		SYNTHESIZED	
USES INTELSAT EARTH STATION	C BAND		SYNTHESIZED	USES INTELSAT EARTH STATION	C BAND		SYNTHESIIZED	
NASA MGS	S, SKU, X BAND		SYNTHESIZED	NASA MGS	S, KU, X BAND		SYNTHESIZED	

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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	
SOUTH POLE	OCT-- ON	--NOV CALL	2650 2648.0 KHz 5810 5808.0 KHz 6397 6395.0 KHz 8090 8088.0 KHz 11004 11002.0 KHz 48724870.0 KHz	7340 7338.0 KHz - P&SP 77507748.0 KHz - P&SP 9073 9071.0 KHz- P&SP 13551.5 13550.0 KHz- P&SP	1.24F1	ALL SYNOPS HOURLIES (AS REQUIRED) TERMINAL	DX	
			11554.5 11443.0 KHz 9032 9031.0 KHz 13252.5 13251.0 KHz	11554.5 11553.0 KHz 9032 9031.0 KHz 13252.5 13251.0 KHz	3A3J 3A3J	VOICE VOICE	SX SX	
PALMER	SAME AS ABOVE		SAME AS ABOVE	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		



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**CALL SIGN** NPX

**ADDRESS FOR CORRESPONDENCE ON THIS INFORMATION:**

OFFICE OF POLAR PROGRAMS  
 NATIONAL SCIENCE FOUNDATION  
 ARLINGTON, VA 22230

**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	CRYSTAL	ATS-3, not in use
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	

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**COUNTRY** United States of America
**ADDRESS FOR CORRESPONDENCE ON THIS INFORMATION:**
**STATION** Amundsen-Scott South Pole
**CALL SIGN** NPX
**LATITUDE** 60°S **LONGITUDE**

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	OCT – MAR 24 hrs. daily MAR – OCT Daily less local Sunday		7340 7338 KHz 7750 7748 KHz 9073 9071 KHz 10235 10233 KHz 13551.5 13550 KHz 15564 15562 KHz	2650 2648.0 KHz 4872 (Alt.) 4871.0 KHz 5810 (Alt.) 5808.0 KHz 6397 (Alt.) 6395.0 KHz 8090 8088.0 KHz 11004 11002.0 KHz 17361.5 17360.0 KHz	3K00J3E	ALL TELETYPE TRAFFIC, 74.2 BAUD (75 BAUD) 100 WPM 850 Hz SHIFT		USB
MCMURDO PALMER	OCT – MAR 24 hrs. daily MAR – OCT Daily less local Sunday		4770.0 KHz 7995.0 KHz 9032 9030.0 KHz 11553.0 KHz	4770.0 KHz 7995.0 KHz 9032 9030.0 KHz 11553.0 KHz	3K00J3E	VOICE - INTERSTATION		USB SUPPRES -SED CARRIER
MCMURDO PALMER	OCT – MAR 24 hrs. daily MAR – OCT as required		9032 9030 KHz 13251.013249.0 KHz 11255.011253.0 KHz 4718.0 KHz 5826.0 not assigned 6708.8 6706.0 KHz	9032 9030.0 KHz 13251.0 13249.0 KHz 11255.0 11253.0 KHz 4718.0 KHz 5826.0 not assigned 6708.8 6706.0 KHz	3K00J3E	VOICE - AIRCRAFT		USB SUPPRES -SED CARRIER
MCMURO PALMER	AS REQUIRED		2182 KHz 8364 8362.0 KHz 30233021.0 KHz 121.5 MHz 243.0 MHz 282.8 MHz	2182 KHz 8364 8362 KHz 3023 3021.0 KHz 121.5 MHz 243.0 MHz 282.8 MHz	3K00J3E 3K00J3E 3K00J3E 3K00J3E 3K00J3E 3K00J3E	DISTRESS AND CALLING/SEARCH AND RESCUE		USB USB USB AM AM AM
LOCAL AIR/GROUND	ON CALL ONLY OCT – FEB		360.2 MHZ 134.1 MHZ	360.2 MHZ 134.1 MHZ	6K00A3E	VOICE (APPROACH CONTROLS – GCA)		

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ARLINGTON, VA 22230

**STATION** Palmer

**CALL SIGN** NHG

**LATITUDE** 64°46'S      **LONGITUDE** 64°05'W

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
SUNAIR LINEAR AMP GSL-1900A	1.6-30 MHz	3K00J3E/1 KW		SUNAIR GSB-900DX TRANSCEIVER	1.6-3.0 MHz	3K00J3E 3K00J1D	SYNTHESIZED	AX.25
SUNAIR GSB-900DX TRANSCEIVER	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
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
Kenwood TS450S Transceiver								
Kenwood TS922A Linear Amplifier	2-30 MHz	100H0A1A, 3K00J3E 100W	SYNTHESIZED	Kenwood TS450S	2-30 MHz	100H0A1A, 3K00J3E	SYNTHESIZED	Amateur Radio
	2-30 MHz	100H0A1A, 3K00J3E 1KW	SYNTHESIZED					