Appendix C: Dish Pointing Data

AFRICA, MIDDLE EAST, SW ASIA Country, City	**LAT LOG Magnetic Variation:**	**Satellite**	**Type :**	**Polarization :**	**Location:**	**Mag Azimuth:**	**Elevation:**
Afghanistan, Kabul	34.35N 69.12E MV 13.5E	HOTBIRD 4	KU	V	13.0E	206.8	10.8
		INTELSAT 906	C	LHC	64.1E	135.1	9.4
Algeria, Alger	28.00N 3.00E MV:2.01W	INTELSAT 906	C	LHC	64.0 E	106.59	17.03
"		HOTBIRD 4	KU	V	13.0 E	160.5	55.5
"		INTELSAT 707	C	RHC	359 E	190.48	57.02
"		NSS-7	C	LHC	338.5 E	226.15	47.61
Azerbaijan, Baku	40.23 N 39.51 E MV: 4.95 E	HOTBIRD 4	KU	V	13.0 E	213.2	36.1
Bahrain, Manama	26.13N 50.35 E MV:2.12E	INTELSAT 906	C	LHC	64.0 E	149.01	55.88
"		HOTBIRD 4	KU	V	13.0 E	237.9	38.8
"		INTELSAT 707	C	RHC	359 E	248.48	26.32
"		NSS-802	C	LHC	338.5 E	259.67	7.62
Bangladesh, Dhaka	24.00N 90.25E MV: 56W	INTELSAT 906	C	LHC	64.0 E	231.05	49.37
Cameroon, Yaounde	6.00 N 12.00 E MV: 2.79 W	INTELSAT 906	C	LHC	64.0 E	96.6	25.0
" "		NSS-802	C	LHC	338.5 E	263.8	50.5
British Indian Ocean Territory, Diego Garcia	7.26 S 72.37 E MV: 7.59W	INTELSAT 906	C	LHC	64.0 E	318.25	76.99
"		INTELSAT 707	C	RHC	359 E	279.75	7.88
Djibouti, Djibouti	11.30 N 43.00 E MV: 1.07 E	INTELSAT 906	C	LHC	64.0E	114.91	61.33
"		NSS-7	C	LHC	338.5 E	263.59	16.64
"		INTELSAT 707	C	RHC	359 E	257.46	38.02
Egypt, Cairo	30.50 N 31.00 E MV: 2.61 E	INTELSAT 906	C	LHC	64.0E	125.40	39.58
"		HOTBIRD 4	KU	V	13.0E	209.9	49.4
"		INTELSAT 707	C	RHC	359 E	228.31	40.33
"		NSS-7	C	LHC	338.5 E	246.11	23.68
India, New Delhi	28.36 N 77.12 E MV: 0.51 E	INTELSAT 906	C	LHC	64.0 E	205.62	53.87
Ivory Coast, Abidjan	5.19 N 4.02 W MV: 8.54 W	NSS-7	C	LHC	338.5 E	262.52	68.63
Israel, Jerusalem	31.46 N 35.14 E MV: 2.76	HOTBIRD 4	KU	V	13.0 E	214.9	46.2
"		INTELSAT 707	C	RHC	359 E	231.69	36.57
"		NSS-7	C	LHC	338.5 E	248.28	19.80
"		INTELSAT 906	C	LHC	64.0 E	130.68	41.87
Tel Aviv	32.05 N 34.48 E MV: 3.13 E	INTELSAT 906	C	LHC	64.0 E	130.03	40.97
"		HOTBIRD 4	KU	V	13.0 E	213.5	46.0
"		INTELSAT 707	C	RHC	359 E	230.22	36.68

AFRICA, MIDDLE EAST, SW ASIA Country, City	LAT LOG Magnetic Variation:	Satellite	Type	Polarization	Location:	Mag Azimuth:	Elevation:
Israel Tel Aviv (continued)		NSS-7	C	LHC	338.5 E	247.18	20.15
Kenya, Nairobi	1.17 S 36.49 E MV:0.1W	INTELSAT 906	C	LHC	64.0 E	87.90	57.85
"		NSS-7	C	LHC	338.5 E	270.88	24.07
"		INTELSAT 707	C	RHC	359 E	271.67	46.52
Kuwait, Kuwait City	29.30 N 47.45 E MV: 2.55E	INTELSAT 906	C	LHC	64.0 E	146.19	51.29
" "		HOTBIRD 4	KU	V	13.0 E	231.8	39.3
" "		INTELSAT 707	C	RHC	359 E	244.01	27.64
" "		NSS-802	C	LHC	338.5 E	256.79	9.68
Malawi, Banjul	13.28 N 16.39 W MV:11.28W	NSS-802	C	LHC	338.5 E	212.55	73.30
" "	"	INTELSAT 906	C	LHC	64.0 E	103.51	0.66
Mali, Bamako	12.39 N 8.00 W MV: 7.15 W	INTELSAT 906	C	LHC	64.0 E	101.14	8.98
"		NSS-7	C	LHC	338.5 E	235.35	68.59
"		INTELSAT 707	KU	RHC	359 E	157.37	73.31
Morocco, Rabat	34.02 N 6.51 W MV: 4.78 W	HOTBIRD 4	KU	V	13.0 E	151.1	45.3
"		INTELSAT 707	C	RHC	359 E	175.00	50.02
"		NSS-7	C	LHC	338.5	210.35	47.31
Mozambique, Maputo	26.00 S 32.25 E MV:17.08 W	INTELSAT 906	C	LHC	64.0 E	71.77	43.55
"		INTELSAT 707	C	RHC	359 E	320.85	42.32
"		NSS-7	C	LHC	338.5 E	304.90	24.18
Pakistan, Islamabad	33.42 N 73.10 E MV: 1.59 E	INTELSAT 906	C	LHC	64.0 E	194.63	49.92
Saudi Arabia Jiddah (Jeddah)	21.30 N 39.12 E MV: 2.02 E	INTELSAT 906	C	LHC	64.0 E	124.93	51.65
"		HOTBIRD 4	KU	V	13.0 E	231.1	51.4
"		NSS-7	C	LHC	338.5 E	205.29	62.28
"		INTELSAT 707	C	RHC	359 E	244.6	38.66
KKMC	27.80 N 45.50 E MV:2.37 E	INTELSAT 906	C	LHC	64.0 E	140.6	51.1
"		HOTBIRD 4	KU	V	13.0 E	231.1	41.8
"		NSS-7	C	LHC	338.5 E	210.9	52.5
"		INTELSAT 707	C	RHC	359 E	243.8	30.0

AFRICA, MIDDLE EAST, SW ASIA Country, City	**LAT LOG Magnetic Variation:**	**Satellite**	**Type:**	**Polarization:**	**Location:**	**Mag Azimuth:**	**Elevation:**
Saudi Arabia (Continued) Riyadh	24.39N 46.43 E MV: 2.13E	INTELSAT 906	C	LHC	64.0 E	138.9	54.75
"		HOTBIRD 4	KU	V	13.0 E	235.8	43.1
"		INTELSAT 707	C	RHC	359 E	247.1	30.5
"		NSS-7	C	LHC	338.5 E	215.96	55.10
Tabuk	28.23 N 36.35E MV: 2.76 E	INTELSAT 906	C	LHC	64.0 E	129.32	45.18
"		HOTBIRD 4	KU	V	13.0 E	219.6	48.2
"		INTELSAT 707	C	RHC	359 E	235.45	37.58
"		NSS-7	C	LHC	338.5 E	250.68	19.78
South Africa, Capetown	33.55 S 18.22 E MV: 22.00W	INTELSAT 906	C	LHC	64.0 E	83.73	27.86
"		INTELSAT 707	C	RHC	359 E	349.75	45.86
"		NSS-7	C	LHC	338.5 E	325.63	32.55
Pretoria	25.45 S 28.10 E 14.29 W	INTELSAT 906	C	LHC	64.0 E	73.59	40.40
"		INTELSAT 707	C	LHC	359 E	321.96	46.07
"		NSS-7	C	LHC	304.38	28.16	
Tunisia, Tunis	36.48 N 10.11 E MV: 0.44 E	INTELSAT 906	C	LHC	64.0 E	113.01	20.13
"		HOTBIRD 4	KU	V	13.0 E	174.4	47.6
"		INTELSAT 707	C	RHC	359 E	197.84	46.07
"		NSS-7	C	LHC	338.5 E	25.55	36.21
Turkey (See Europe table)							
Uganda, Kampala	0.19 N 32.25 E MV: 0.28	INTELSAT 906	C	LHC	64.0 E	90.03	53.03
"		NSS-7	C	LHC	304.3 E	269.58	28.63
United Arab Emirates (UAE), Abu Dhabi	24.28 N 54.22 E MV: 1.45 E	INTELSAT 906	C	LHC	64.0 E	155.81	59.54
"		HOTBIRD 4	KU	V	13.0 E	243.4	36.3
"		INTELSAT 707	C	RHC	359 E	252.61	23.35
Yemen, Sanaa	15.23 N 44.12 E MV:1.28 E	HOTBIRD 4	KU	V	13.0 E	244.9	50.1
"		INTELSAT 707	C	RHC	359 E	254.06	35.87
"		NSS-7	C	LHC	338.5 E	261.93	15.08
"		INTELSAT 906	C	LHC	64.0 E	124.72	60.93

AMERICAS Country, City	**LAT LOG Magnetic Variation:**	**Satellite**	**Type**	**Polarization:**	**Location:**	**Mag Azimuth:**	**Elevation:**
Columbia, Bogota	14.66 N 74.12 W MV: 5.0 W	INTELSAT 707	C	RHC	359 E	99.40	7.70
"		NSS-7	C	LHC	338.5 E	105.95	28.32
Cuba, Guantanamo Bay	19.93 N 75.12 W MV: 5.72 W	NSS-7	C	LHC	338.5 E	109.82	26.09
"		GE 1	C	V	103.0 W	242.92	50.71
Ecuador, Quito	0.13 S 78.30 W MV: 1.17 E	NSS-7	C	LHC	338.5 E	88.74	25.35
Honduras, Soto Cano AB	14.37 N 87.60W MV:1.76 E	NSS-7	C	LHC	338.5 E	94.51	14.70
"		GE 1	C	V	103.0 W	226.22	65.46
Puerto Rico, Roosevelt Roads	18.23 N 65.65 W MV:12.87W	INTELSAT 707	C	RHC	359 E	111.30	15.62
"		NSS-7	C	LHC	338.5 E	120.73	35.93
"		GE 1	C	V	103.0 W	260.58	42.65
Venezuela, Caracas	10.66 N 66.82 W MV: 9.87 W	INTELSAT 707	C	RHC	359 E	104.62	15.36
"		NSS-802	C	LHC	338.5 E	110.23	36.75

ASIA **Country, City**	**LAT LOG Magnetic Variation:**	**Satellite**	**Type**	**Polarization:**	**Location:**	**Mag Azimuth:**	**Elevation**:
Burma, Rangoon	16.47 N 96.10 E MV:0.78 E	INTELSAT 906	C	LHC	64.0 E	245.9	48.7
China Beijing	39.55 N 166.25 E MV:5.82 W	POR DTS	C	LHC	180.0 E	158.0	42.1
Shanghai	31.01 N 121.30E MV: 4.63 W	POR DTS	C	LHC	180.0 E	112.2	18.2
“		INTELSAT 906	C	LHC	64.0 E	256.4	19.5
Indonesia, Jakarta	6.10 S 106.48 E MV: 0.12W	INTELSAT 906	C	LHC	64.0 E	276.74	40.57
“		POR DTS	C	LHC	180.0 E	88.32	7.77
Japan Iwakuni	34.15 N 132.24 E MV: 7.27 W	POR DTS	C	LHC	180.0 E	117.0	25.99
		INTELSAT 802	Ku	Vertical	176.0 E	127.4	29.1
		INTELSAT 906	C	LHC	64.0 E	257.3	9.4
Misawa (Misawa AB)	40.68 N 141.36E MV:8.48 W	POR DTS	C	LHC	180.0 E	129.2	28.70
“		INTELSAT 802	Ku	Vertical	176.0 E	142.0	31.2
Okinawa (Camp Butler)	26.31 N 127.79 E MV: 4.28 W	POR DTS	C	LHC	180.0 E	113.24	24.48
“		INTELSAT 802	Ku	Vertical	176.0 E	116.0	29.1
“		INTELSAT 906	C	LHC	64.0 E	257.6	15.0
Sasebo	33.17 N 129.72 E MV: 6.01 W	POR DTS	C	LHC	180.0 E	114.4	24.4
“		INTELSAT 802	Ku	Vertical	176.0 E	124.4	27.6
“		INTELSAT 906	C	LHC	64.0 E	256.1	11.7
Tokyo (Yokota AB)	35.75 N 139.34 E MV:6.50 W	POR DTS	C	LHC	180.0 E	124.2	30.5
“		INTELSAT 802	Ku	Vertical	176.0 E	135.6	33.4
Johnston Island Atoll	16.73 N 169.52 W MV:1024 E	POR DTS	C	LHC	180.0E	202.48	66.94
Korea, Kwangju	35.09 N 126.54 E MV:6.69 W	POR DTS	C	LHC	180.0 E	113.1	21.0
“		INTELSAT 802	Ku	Vertical	176.0 E	116.2	24.2
“		INTELSAT 906	C	LHC	64.0 E	260.06	13.72
Osan (Osan AB)	37.08 N 127.03 E MV:7.22 W	POR DTS	C	LHC	180.0 E	121.68	20.58
“		INTELSAT 802	Ku	Vertical	176.0 E	125.1	23.6
“		INTELSAT 906	C	LHC	64.0 E	260.16	12.73
Seoul	37.60 N 126.98 E MV: 7.12 W	POR DTS	C	LHC	180.0 E	121.79	20.31
“		INTELSAT 802	Ku	Vertical	176.0 E	125.6	23.3
“		INTELSAT 906	C	LHC	64.0 E	259.83	12.61
Taegu (AFKN)	35.84 N 128.59 E MV:6.73	POR DTS	C	LHC	180.0 E	121.78	22.34
“		INTELSAT 802	Ku	Vertical	176.0 E	125.7	25.4
“		INTELSAT 906	C	LHC	64.0 E	261.19	11.85
Malaysia, Singapore	1.22 N 103.48 E MV:0.43 W	INTELSAT 906	C	LHC	64.0 E	268.95	44.29
Marshall Islands, Kwajalein Island	8.73 N 167.74 E MV:8.65 E	POR DTS	C	LHC	180.0 E	116.29	72.36

EUROPE Country, City	LAT LOG Magnetic Variation:	Satellite: Type:	Type	Polarization:	Location:	Mag Azimuth:	Elevation:
Albania, Tirania	41.20N 19.49E MV: 1.92 E	HOTBIRD 4	KU	V	13.0 E	187.3	41.9
"		INTELSAT 707	C	RHC	359 E	207.65	37.97
"		NSS-7	C	LHC	338.5 E	230.92	26.86
"		INTELSAT 906	C	LHC	64.0 E	121.90	24.55
Austria, Vienna	48.12N 16.22E MV: 2.15 E	HOTBIRD 4	KU	V	13.0 E	182.1	34.7
Belgium, SHAPE	50.50N 04.20E MV: 1.95 W	HOTBIRD 4	KU	V	13.0 E	170.0	31.5
Mons	50.58 N 4.05 E MV: 1.94 W	HOTBIRD 4	KU	V	13.0 E	169.9	31.4
Bosnia Herzegovina, Sarajevo	43.52 N 18.25 E MV: 2.14 E	HOTBIRD 4	KU	V	13.0 E	185.2	39.5
Bulgaria, Sofia	42.41N 23.19E MV: 2.91 E	HOTBIRD 4	KU	V	13.0 E	191.8	40.0
Cyprus, Nicosia	35.10N 33.22E MV: 3.08 E	INTELSAT 906	C	LHC	64.0 E	130.91	37.80
"		HOTBIRD 4	KU	V	13.0E	209.3	43.9
"		INTELSAT 707	C	RHC	359 E	226.71	35.50
"		NSS-802	C	LHC	338.5 E	244.79	20.04
Finland, Helsinki	60.10N 24.58E MV: 6.23 E	HOTBIRD 4	KU	V	13.0 E	187.2	21.1
France Istres	43.31N 04.59E MV:1.37 W	HOTBIRD 4	KU	V	13.0 E	168.5	39.3
Paris	48.52N 02.20E MV: 2.46 w	HOTBIRD 4	KU	V	13.0 E	165.9	38.6
Germany Baumholder	49.37N 07.20E MV: 1.23 W	HOTBIRD 4	KU	V	13.0 E	172.7	33.1
Bitburg	49.58N 06.31E MV: 1.15 W	HOTBIRD 4	KU	V	13.0 E	171.8	32.8
Frankfurt	50.13N 8.68 E MV: 0.46 W	HOTBIRD 4	KU	V	13.0 E	174.2	32.4
Garmisch	47.29N 11.05E MV: 0.17 E	HOTBIRD 4	KU	V	13.0 E	176.4	35.6
Hannau	50.08N 08.55E MV: 0.44W	HOTBIRD 4	KU	V	13.0 E	196.1	32.4
Heidelberg	49.25N 08.43E MV: 0.47 W	HOTBIRD 4	KU	V	13.0 E	173.9	33.3
Kaiserlautern (Ramstein)	49.26N 07.46E MV: 1.25 W	HOTBIRD 4	KU	V	13.0 E	173.9	33.3
"		INTELSAT 707	C	RHC	359 E	192.36	32.91
"		NSS-7	C	LHC	338.5	217.40	27.09
"		INTELSAT 906	C	LHC	64.0 E	117.85	12.61
Stuttgart	48.46N 09.11E MV: 0.45 W	HOTBIRD 4	KU	V	13.0 E	174.5	34.2
Vilseck	49.37N 11.48E	HOTBIRD 4	KU	V	13.0 E		
Wiesbaden	50.05N 08.14E MV: 0.37 E	HOTBIRD 4	KU	V	13.0 E	173.7	32.4
Wurzburg	49.48N 09.56E MV: 0.64 E	HOTBIRD 4	KU	V	13.0 E	175.0	33.2
Greece Athens	37.59N 23.44E	HOTBIRD 4	KU	V	13.0 E	194.1	45.1
(Crete) Souda Bay	35.29N 24.42E MV: 2.44 E	HOTBIRD 4	KU	V	13.0 E	196.7	47.2
"		INTELSAT 707	C	RHC	359 E	216.50	40.89

EUROPE Country, City	**LAT LOG Magnetic Variation:**	**Satellite Name:**	**Type**	**Polarization:**	**Location:**	**Mag Azimuth:**	**Elevation:**
(Crete) Souda Bay (continued)		NSS-7	C	LHC	338.5 E	237.96	26.93
"		INTELSAT 906	C	LHC	64.0 E	122.41	31.24
Greenland, Thule	76.34N 68.47E MV: 68.33 W	GE 1	C	V	103.0 W	283.63	2.53
Hungary, Budapest	47.30N 19.05E MV: 2.28 E	HOTBIRD 4	KU	V	13.0 E	185.4	35.3
Iceland, Keflavik	63.96N 22.60W MV: 20.60W	HOTBIRD 4	KU	V	13.0 E	160.6	12.4
"		INTELSAT 707	C	RHC	359 E	176.82	15.72
"		NSS-7	C	LHC	21.5	199.38	17.76
Ireland, Dublin	53.20N 06.15W MV: 7.70 W	HOTBIRD 4	KU	V	13.0 E	162.6	26.7
Italy Aviano	46.04N 12.36E MV: 1.00 E	HOTBIRD 4	KU	V	13.0 E	177.8	37.0
La Maddalena	41.13N 09.24E MV: 0.22 W	HOTBIRD 4	KU	V	13.0 E	173.7	42.3
Livorno (Pisa)	43.33N 10.19E MV: 0.30 E	HOTBIRD 4	KU	V	13.0 E	175.1	39.9
"		INTELSAT 707	C	RHC	359 E	195.95	38.35
"		NSS-7	C	LHC	338.5 E	221.71	30.40
"		INTELSAT 906	C	LHC	64.0 E	116.66	17.10
Naples	40.50N 14.13E MV: 1.31 E	HOTBIRD 4	KU	V	13.0 E	180.2	43.2
"		INTELSAT 707	C	RHC	359 E	202.41	40.74
"		NSS-7	C	LHC	21.W	227.43	30.51
"		INTELSAT 906	C	LHC	64.0 E	117.82	21.91
Sicily AFN-S Station Sigonella	37.43N 14.97E MV: 1.01 E	HOTBIRD 4	KU	V	13.0 E	181.7	46.6
"		INTELSAT 707	C	RHC	359 E	204.21	43.47
"		NSS-7	C	LHC	338.5 E	229.56	32.35
"		INTELSAT 906	C	LHC	64.0 E	116.82	23.40
Vicenza	45.33N 11.33E MV: 0.13 E	HOTBIRD 4	KU	V	13.0 E	176.6	37.8
Lithuania, Vilnius	54.41N 25.19E MV: 4.85 E	HOTBIRD 4	KU	V	13.0 E	189.7	26.9
Madeconia, (Former Yugoslav Republic), Skopje	42.00N 21.29E MV: 2.30 E	HOTBIRD 4	KU	V	13.0 E	189.4	40.8
Netherlands The Hague	52.05N 04.18E MV: 2.14 W	HOTBIRD 4	KU	V	13.0 E	170.5	29.9
Maastricht	50.52N 05.43E MV: 2.10 W	HOTBIRD 4	KU	V	13.0 E	171.2	31.7
Norway Oslo	59.55N 10.45E MV: 0.51 W	HOTBIRD 4	KU	V	13.0 E	177.0	22.4
Stavanger	58.58N 05.45E MV: 3.35 W	HOTBIRD 4	KU	V	13.0 E	171.8	22.9
Poland, Warsaw	52.13N 21.02E MV: 3.42 E	HOTBIRD 4	KU	V	13.0 E	186.4	29.9
Portugal, Azores (Lajes Field)	38.30N 28.00W MV: 12.92 W	HOTBIRD 4	KU	V	13.0 E	137.6	28.7
"		INTELSAT 707	C	RHC	359 E	154.88	37.56
"		NSS-7	C	LHC	338.5 E	184.02	44.73

EUROPE Country, City	**LAT LOG Magnetic Variation:**	**Satellite:Type:**	**Type:**	**Polarization:**	**Location:**	**Mag Azimuth:**	**Elevation:**
Portugal (continued), Lisbon	38.43N 09.08W MV: 5.72 W	HOTBIRD 4	KU	V	13.0 E	151.3	39.9
"		INTELSAT 707	C	RHC	359 E	172.55	44.37
"		NSS-7	C	LHC	338.5 E	204.78	43.43
Romania, Bucharest	44.26N 26.06E MV: 3.98 E	HOTBIRD 4	KU	V	13.0 E	194.6	37.3
Spain, Madrid	40.24N 03.41W MV: 3.70 W	HOTBIRD 4	KU	V	13. E	158.2	40.5
Moron (Moron de la Frontiera)	37.08N 05.27W MV: 4.21 W	HOTBIRD 4	KU	V	13. E	154.5	42.9
Rota	36.37N 06.21W MV: 5.01 W	HOTBIRD 4	KU	V	13.0 E	153.0	43.2
"		INTELSAT 906	C	LHC	64.0 E	107.04	7.04
"		INTELSAT 707	C	RHC	1.0 W	176.11	47.13
"		NSS-7	C	LHC	338.5 E	209.43	44.59
Sweden, Stockholm	59.20N 18.03E MV: 3.21 E	HOTBIRD 4	KU	V	13.0 E	182.5	22.6
Switzerland, Geneva	46.12 N 6.09 E MV: 0.77 W	HOTBIRD 4	KU	V	13.0 E	170.8	36.5
Turkey, Adana	37.01N 35.18E MV: 3.47 E	HOTBIRD 4	KU	V	13.0 E	210.4	41.1
Adara	39.56N 32.52E MV: 3.61 E	HOTBIRD 4	KU	V	13.0 E	205.3	39.9
Incirlik	37.00 N 35.83 E MV: 3.40 E	HOTBIRD 4	KU	V	13.0E	211.2	40.8
"		INTELSAT 707	C	RHC	359 E	227.82	32.40
"		NSS-7	C	LHC	338.5 E	245.50	17.24
"		INTELSAT 906	C	LHC	64.0 E	134.94	37.90
Izmir	38.25N 27.09E MV: 3.08 E	HOTBIRD 4	KU	V	13.0 E	198.9	43.3
"		INTELSAT 707	C	RHC	359 E	217.68	36.91
"		NSS-802	C	LHC	338.5 E	238.28	23.32
"		INTELSAT 906	C	LHC	64.0 E	126.41	31.49
Ukraine, Kiev	50.50 N 30.50 E MV: 5.76 E	HOTBIRD 4	KU	V	13.0 E	196.6	29.8
"		INTELSAT 707	C	RHC	359 E	212.69	24.97
"		NSS-7	C	LHC	338.5 E	233.15	14.65
"		INTELSAT 906	C	LHC	64.0 E	133.62	24.10
United Kingdom, Cambridge	52.13N 00.80E MV: 3.92 W	HOTBIRD 4	KU	V	13.0 E	170.3	29.8
London	51.30N 00.07W MV:4.64 W	HOTBIRD 4	KU	V	13.0 E	166.5	30.0
Reading	51.47N 0.98 W MV: 4.56 W	HOTBIRD 4	KU	V	13.0E	165.8	29.6
"		INTELSAT 707	C	RHC	359 E	184.59	31.09
"		NSS-7	C	LHC	338.5 E	210.13	28.02