

Antenna Aiming Co-ordinates Sydney, Australia

Notes:

- (1) This geometric listing does not imply usable signals
- (2) Side lobe overspill may allow out of footprint reception
- (3) Ground noise may be excessive below 10 degrees elevation

Site location	Sydney
Site latitude	33.92S
Site longitude	151.17E
Magnetic variation	12.6E
Modified polar elevation	55.43 degrees
Modified apex elevation	50.57 degrees
Modified polar axis	34.57 degrees
Modified apex declination	39.43 degrees
Modified declination offset	4.86 degrees

Key to Abbreviations:

- Long: Sub satellite longitude (degrees)
- AZm: Magnetic azimuth or compass bearing (degrees)
- AZ: True azimuth (degrees)
- EL: Elevation (degrees)
- Band: Active Bands

Satellite Name	Long	AZm	AZ	EL	Band
Intelsat 701	180.00W	32.0	44.6	40.0	C,Ku
NSS 513	177.00W	35.4	48.0	38.0	C,Ku
TDRS 5	174.30W	38.4	51.0	36.1	C
Echostar 4	148.00W	60.1	72.7	15.5	Ku
Echostar 1	148.00W	60.1	72.7	15.5	Ku
Satcom C5	139.00W	65.8	78.4	8.1	C
Satcom 1	137.00W	67.0	79.6	6.5	C
Thaicom 2	78.50E	267.3	279.9	5.8	C,Ku
Thaicom 3	78.50E	267.3	279.9	5.8	C,Ku
Express 6-F2	80.00E	268.2	280.8	7.0	C
Insat 1D	83.00E	270.0	282.6	9.5	S,C
Insat 2E	83.00E	270.0	282.6	9.5	C
Raduga 30	85.00E	271.2	283.8	11.1	C,X
Chinastar 1	87.50E	272.8	285.4	13.2	C,Ku
Chinasat 1	87.50E	272.8	285.4	13.2	C
ST 1	88.00E	273.2	285.8	13.6	C,Ku
Gorizont 40	90.00E	274.5	287.1	15.3	C,Ku
Measat 1	91.50E	275.5	288.1	16.5	C,Ku
Telstar 6	93.00E	276.5	289.1	17.7	C,Ku
Insat 2C	93.50E	276.9	289.5	18.1	S,C,Ku
Insat 2B	93.50E	276.9	289.5	18.1	S,C
NSS K-TV	95.00E	277.9	290.5	19.4	Ku
Luch 0	95.00E	277.9	290.5	19.4	Ku
Ekran M	99.00E	280.8	293.4	22.6	C
Asiasat 2	100.50E	282.0	294.6	23.8	C,Ku
Gorizont 36	103.00E	283.9	296.5	25.8	C,Ku
Asiasat 3S	105.50E	286.0	298.6	27.8	C,Ku
Asiasat 1	105.50E	286.0	298.6	27.8	C
Indostar 1	106.10E	286.5	299.1	28.3	L,S
Palapa B2R	108.00E	288.1	300.7	29.7	C
BSat-1b	110.00E	289.9	302.5	31.2	Ku
BSat-1a	110.00E	289.9	302.5	31.2	Ku
BS-3N	110.00E	289.9	302.5	31.2	Ku
Sinosat 1	110.50E	290.4	303.0	31.6	C,Ku
Palapa C2	113.00E	292.8	305.4	33.5	C,Ku
Agila 1	113.00E	292.8	305.4	33.5	C
Solidaridad 2	113.00E	292.8	305.4	33.5	C,Ku
Chinasat 5	115.50E	295.3	307.9	35.3	C,Ku
Koreasat 2	116.00E	295.8	308.4	35.7	Ku
Koreasat 1	116.00E	295.8	308.4	35.7	Ku
Palapa B4	118.00E	297.9	310.5	37.1	C
Thaicom 1	120.00E	300.1	312.7	38.4	C,Ku

JCSAT 5	124.00E	304.8	317.4	41.0	Ku
JCSAT 4	124.00E	304.8	317.4	41.0	C,Ku
Chinasat 6	125.00E	306.0	318.6	41.6	C
JCSAT 3	128.00E	309.9	322.5	43.4	C,Ku
NStar B	130.00E	312.6	325.2	44.5	S,C,Ku,Ka
LMI 2 and 3	130.00E	312.6	325.2	44.5	C,Ku
NStar A	132.00E	315.5	328.1	45.5	S,C,Ku,Ka
Apstar 1A	134.00E	318.4	331.0	46.5	C
Apstar 1	138.00E	324.7	337.3	48.1	C
Orion F3	139.00E	326.3	338.9	48.5	C,Ku
GMS 5	140.00E	327.9	340.5	48.8	S
GMS 4	140.00E	327.9	340.5	48.8	S
Gorizont 33	140.00E	327.9	340.5	48.8	C
Superbird 3	144.00E	334.7	347.3	49.8	Ku
Palapa B2P	144.00E	334.7	347.3	49.8	C
Gorizont 22	145.00E	336.4	349.0	50.0	C
Agila 2	145.00E	336.4	349.0	50.0	C
Measat 2	148.00E	341.7	354.3	50.4	C,Ku
JCSAT 5	150.00E	345.3	357.9	50.5	Ku
ETS V	150.00E	345.3	357.9	50.5	L,C
Palapa C1	150.50E	346.2	358.8	50.6	C,Ku
JCSAT 2	154.00E	352.5	5.1	50.4	Ku
Optus C1	156.00E	356.0	8.6	50.2	Ku
Optus B3	156.00E	356.0	8.6	50.2	L,Ku
Superbird A	158.00E	359.5	12.1	49.9	Ku,Ka
Optus B1	160.00E	3.0	15.6	49.4	L,Ku
Superbird B	162.00E	6.3	18.9	48.9	Ku,Ka
PAS 8	166.00E	12.8	25.4	47.5	C,Ku
PAS 2	169.00E	17.4	30.0	46.2	C,Ku
Intelsat 802	174.00E	24.4	37.0	43.6	C,Ku
Intelsat 702	177.00E	28.3	40.9	41.9	C,Ku
Inmarsat 3 F3	178.00E	29.6	42.2	41.2	L,C
Inmarsat 2 F1	179.00E	30.8	43.4	40.6	L,C

Australia and New Zealand Magnetic Variation Map

