

ANNEX M

NGS GPS ANTENNA CODES

[This Annex supersedes Annex J]

The first record field of this table lists the GPS Antenna Codes to be used in the *72* record, which supersedes the *71* record for listing antenna types/serial numbers for a project. Older Blue Book files that have *71* records will continue to be accepted by NGS. The first three characters of the GPS ANTENNA CODE represent an abbreviation for the manufacturer. For most antennas the model number or part number is also represented as part of the GPS ANTENNA CODE, as is the type of radome used. The second record field gives a brief description of each antenna.

If an unlisted antenna is used from one of the known manufacturers shown below, then use its corresponding "_OTHER" code (Example: If you are using a Trimble antenna not listed in Annex M, use the "TRM_OTHER" code). If you have an antenna whose manufacturer is not listed, then use the "XXX_OTHER" code. When using any of these "_OTHER" codes, you should include a *26* record in the B-file that describes the unlisted antenna for each station occupation. Annex M will be modified to incorporate new antennas.

If you are using a geodetic GPS antenna that is dual-frequency but is not listed in Annex M, please notify NGS by sending an e-mail to cors@ngs.noaa.gov so we can make arrangements to derive an antenna pattern and antenna code for that antenna.

The manufacturer abbreviations identified by the first three characters of the GPS ANTENNA CODE are:

AER - AeroAntenna
AOA - ALLEN OSBORNE AND ASSOCIATES
ASH - ASHTECH
JPL - JET PROPULSION LABORATORY
JPS - JAVAD POSITIONING SYSTEMS
LEI - LEICA
MAC - MACROMETRICS
NOV - NOVATEL
SEN - SENSOR SYSTEMS
SOK - SOKKIA
TOP - TOPCON
TRM - TRIMBLE

The most recent list of GPS antennas is shown on the following pages.

GPS ANTENNA CODES	NAME/DESCRIPTION OF ANTENNA
*****	*****
NONE	NONE
AERAT2775_42	Geodetic L1/L2
AERAT2775_43	SPKE Choke Ring Geodetic L1/L2 + radome
AERAT2775_43	Choke Ring Geodetic L1/L2
AERAT2775_62	L1/L2
AOAD/M_B	Dorne Margolin B, chokerings (Rogue)
AOAD/M_TA_NGS	Dorne Margolin T, chokerings, Ashtech LNA
AOAD/M_T	Dorne Margolin T, chokerings (TurboRogue)
ASH110454	ProAntenna L1
ASH700228A	Geodetic L1/L2, 8 holes, bubble, compass
ASH700228B	Geodetic L1/L2, 8 holes, bubble, compass
ASH700228C	Geodetic L1/L2, 8 holes, no bubble, compass
ASH700228D	Geodetic L1/L2, REV.B, 8 L-shaped notches
ASH700228E	Geodetic L1/L2, REV.B, 8 L-shaped notches
ASH700700.A	Marine L1/L2
ASH700700.B	Marine L1/L2
ASH700700.C	Marine L1/L2
ASH700718A	Geodetic III 'Whopper', REV. D
ASH700718B	Geodetic III 'Whopper', REV. D
ASH700829.2	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700829.3	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700829.3	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700829.A	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700829.A1	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700829.A1	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700936A_M	D/M element, milled chokerings, -radome
ASH700936A_M	SNOW D/M element, milled chokerings, +radome
ASH700936B_M	D/M element, milled chokerings, -radome
ASH700936B_M	SNOW D/M element, milled chokerings, +radome
ASH700936C_M	D/M element, milled chokerings, -radome
ASH700936C_M	SNOW D/M element, milled chokerings, +radome
ASH700936D_M	SNOW D/M element, milled chokerings, +radome
ASH700936D_M	D/M element, milled chokerings, -radome
ASH700936E	SNOW D/M element, REV E, chokerings, +radome
ASH700936E	D/M element, REV E, chokerings, -radome
ASH700936E_C	D/M, chokerings, 700936.02 REV E, SCIGN
ASH701008.01B	Geodetic IIIA, P/N:701008-01(B)
ASH701073.1	GPS/GLONASS, REV.1, chokerings
ASH701073.3	GPS/GLONASS, REV.3, chokerings
ASH701933A_M	D/M element, REV.A, chokerings, H20tight
ASH701933A_M	SNOW D/M element, REV.A, chokering, H20tight, rd
ASH701933B_M	D/M element, REV.B, chokerings, H20tight
ASH701933B_M	SNOW D/M element, REV.B, chokering, H20tight, rd
ASH701933C_M	D/M element, REV.C, chokerings, H20tight
ASH701933C_M	SNOW D/M element, REV.C, chokering, H20tight, rd
ASH701941.021	D/M element, REV.1, chokerings, GPS+GLONASS
ASH701941.022	D/M element, REV.2, chokerings, GPS+GLONASS
ASH701941.1	D/M element, REV.1, chokerings, GPS+GLONASS
ASH701941.2	D/M element, REV.2, chokerings, GPS+GLONASS
ASH701945.02B	D/M element, REV.B, chokerings
ASH701945B_M	D/M element, REV.B, chokerings
ASH701945C_M	D/M element, REV.C, chokerings
ASH701946.022	D/M element, REV.2, chokerings, GPS+GLONASS
ASH701975.01	Geodetic IV, Rev.A
ASH701975.01+GP	Geodetic IV, Rev.A with groundplane

JPLD/M_R		Dorne Margolin R, chokerings (Rogue,JPL)
JPSLEGANT_E		Legant on flat groundplane, External
JPSREGANT_DD_E		Regant dual depth chokerings, External
JPSREGANT_SD_E		Regant single depth chokerings, External
LEIAT202-GP		External micropulse L1/L2 -groundplane
LEIAT302-GP		External micropulse L1/L2 -groundplane
LEIAT303		Micropulse chokering antenna -radome
LEIAT303	LEIC	Micropulse chokering antenna +radome
LEIAT502		Aero element L1/L2, External
LEIAT503		Micropulse chokering antenna -radome
LEIAT503	LEIC	Micropulse chokering antenna +radome
LEIAT504		D/M element, chokerings, -radome
LEISR299_INT		SR299, Internal with Ball element L1/L2
LEISR399_INT		SR399, Internal with Ball element L1/L2
MAC4647942	MMAC	Macrometer crossed-dipole, +radome
MAG105645		L1/L2 GPS
NGSD/M+GP60		D/M antenna with extended groundplane
NOV501		GPS-501 L1
NOV501+CR		GPS-501 L1, chokerings
NOV502		GPS-502 L1/L2
NOV502+CR		GPS-502 L1/L2, chokerings
NOV503+CR		GPS-503 L1/L2, chokerings
NOV503+CR	SPKE	GPS-503 L1/L2, chokerings,radome
NOV531		GPS-531 L1
NOV531+CR		GPS-531 L1, chokerings
NOV600		GPS-600 L1/L2
SEN67157514		L1/L2, P/N:S67-1575-14 (+26dB amp)
SEN67157514+CR		L1/L2, P/N:S67-1575-14, (+26dB amp), +cr
SEN67157549		L1, P/N:S67-1575-49
SEN67157549+CR		L1, P/N:S67-1575-49, +chokerings
SEN67157596		L1/L2, PN:S67-1575-96
SEN67157596+CR		L1/L2, PN:S67-1575-96, +chokerings
SOK_RADIAN_IS		Sokkia Radian IS
SOKA110		L1
SOKA120		L1/L2
SPP571212238+GP		groundplane
SPP571908273+CR		chokerings, oblong antenna element
SPP571908273+CR	SPKE	chokerings, oblong antenna element, +rd
TOP_LEGANT3_UHF		Legant 3 with UHF Antenna
TOP72110		D/M element (used with Turbo-SII)
TRM14532.00		4000ST L1/L2 Geodetic
TRM14532.10		4000SSE Kin L1/L2
TRM22020.00-GP		Geodetic L1/L2 compact -groundplane
TRM22020.00+GP		Geodetic L1/L2 compact +groundplane
TRM22020.00+GP		Geodetic L1/L2 compact +groundplane
TRM23903.00		Permanent L1/L2
TRM27947.00-GP		Rugged L1/L2 -groundplane
TRM27947.00+GP		Rugged L1/L2 +groundplane
TRM29659.00		D/M element, chokerings, -radome
TRM33429.00-GP		L1/L2 microcentered Compact Geodetic -GP
TRM33429.00+GP		L1/L2 microcentered Compact Geodetic +GP
TRM33429.00+GP		L1/L2 microcentered Compact Geodetic +GP
TRM33429.20+GP		L1/L2 microcentered Compact Geodetic +GP
TRM33429.20_NGS	UNAV	L1/L2 microcentered Compact Geodetic +GP
TRM36569.00+GP		13" microcentered +GP
TRM39105.00		Trimble Zephyr without Ground Plane
TRM41249.00		Trimble Zephyr Geodetic with GP

TRM4800

Receiver+Internal microcentered antenna