

ANNEX M

NGS GPS ANTENNA CODES

**[Note: This annex supersedes Annex J]**

The first record field of this table lists the accepted 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.

**Note:** 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 continuously be modified to incorporate new antennas. The latest version is available from the NGS web site at:

(<http://www.ngs.noaa.gov/FGCS/BlueBook/annexm/annexm.html>)

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](mailto: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:

AOA - ALLEN OSBORNE AND ASSOCIATES  
ASH - ASHTECH  
JPL - JET PROPULSION LABORATORY  
JPS - JAVAD POSITIONING SYSTEMS  
LEI - LEICA  
MAC - MACROMETRICS  
NOV - NOVATEL  
SPP - SPECTRA PRECISION  
TOP - TOPCON  
TRM - TRIMBLE

The current list of accepted GPS antennas are shown on the following pages:

GPS ANTENNA CODE	NAME/DESCRIPTION OF ANTENNA
*****	*****
AOAD/M_T	Dorne Margolin T, chokerings (TurboRogue)
AOAD/M_B	Dorne Margolin B, chokerings (Rogue)
AOA_OTHER	Any AOA antenna not yet listed in Annex M
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.A	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700829.A1	SNOW Geodetic III 'Whopper' (USCG) +radome
ASH700936A_M	D/M element, milled chokerings, -radome
ASH700936B_M	D/M element, milled chokerings, -radome
ASH700936C_M	D/M element, milled chokerings, -radome
ASH700936D_M	D/M element, milled chokerings, -radome
ASH700936E	D/M element, REV E, chokerings, -radome
ASH700936E_C	D/M, chokerings, 700936.02 REV E, SCIGN
ASH700936A_M	SNOW D/M element, milled chokerings +radome
ASH700936B_M	SNOW D/M element, milled chokerings +radome
ASH700936C_M	SNOW D/M element, milled chokerings +radome
ASH700936D_M	SNOW D/M element, milled chokerings +radome
ASH701008.01B	Geodetic IIIA. P/N: 701008-01(B)
ASH701945.02B	D/M, chokerings, REV B
ASH701946.022	D/M, chokerings, REV 2, GPS+GLONASS
ASH_OTHER	Any ASH antenna not yet listed in Annex M
JPLD/M_R	Dorne Margolin R, chokerings (Rogue,JPL)
JPL_OTHER	Any JPL antenna not yet listed in Annex M
JPSLEGANT_E	Legant on flat groundplane, External
JPSREGANT_SD_E	Regant single depth chokerings, External
JPSREGANT_DD_E	Regant dual depth chokerings, External
JPS_OTHER	Any JPS antenna not yet listed in Annex M
LEIAT202-GP	External micropulse L1/L2 -groundplane
LEIAT302-GP	External micropulse L1/L2 -groundplane
LEIAT303	LEIC Micropulse chokering antenna +radome
LEIAT303	Micropulse chokering antenna -radome
LEIAT502	Aero element L1/L2, External
LEIAT504	D/M element, with chokerings
LEISR299_INT	SR299, Internal with Ball element L1/L2
LEISR399_INT	SR399, Internal with Ball element L1/L2
LEI_OTHER	Any LEI antenna not yet listed in Annex M
MAC4647942	MMAC Macrometer crossed dipoles
MAC_OTHER	Any MAC antenna not yet listed in Annex M
NOV501	GPS-501 L1
NOV501+CR	GPS-501 L1, chokerings
NOV502	GPS-502 L1/L2
NOV502+CR	GPS-502 L1/L2, chokerings
NOV531	GPS-531 L1
NOV531+CR	GPS-531 L1, chokerings
NOV_OTHER	Any NOV antenna not yet listed in Annex M

GPS ANTENNA CODE		NAME/DESCRIPTION OF ANTENNA
*****		*****
SPP571908273		chokerings, oblong antenna element housing
SPP571908273	SPKE	chokerings, oblong element housing, +radome
SPP_OTHER		Any SPP antenna not yet listed in Annex M
TOP72110		D/M element (used with Turbo-SII)
TOP_OTHER		Any TOP antenna not yet listed in Annex M
TRM14532.00		4000ST L1/L2 Geodetic
TRM14532.10		4000SSE Kin L1/L2, no groundplane
TRM22020.00+GP		Geodetic L1/L2 COMPACT +groundplane
TRM22020.00-GP		Geodetic L1/L2 COMPACT -groundplane
TRM27947.00+GP		Rugged L1/L2 +groundplane
TRM27947.00-GP		Rugged L1/L2 -groundplane
TRM23903.00		Permanent L1/L2
TRM29659.00		D/M element, chokerings, -radome
TRM33429.00+GP		L1/L2 microcentered Compact Geodetic +GP
TRM33429.20+GP		L1/L2 microcentered Compact Geodetic +GP
TRM4800		Receiver+Internal microcentered antenna
TRM_OTHER		Any TRM antenna not yet listed in Annex M
XXX_OTHER		Any antenna with MANUFACTURER NOT LISTED