
Antenna Reference Point(ARP): HIGH POINT CORS ARP

PID = AI4198

| IGS08 POSITION (EPOCH 2005.0)

| Computed in Aug 2011 using data through gpswk 1631.

| X = 896284.025 m latitude = 35 57 56.51342 N
| Y = -5090143.276 m longitude = 080 00 48.95356 W
| Z = 3725268.393 m ellipsoid height = 266.601 m

| IGS08 VELOCITY

| Computed in Aug 2011 using data through gpswk 1631.

| VX = -0.0140 m/yr northward = 0.0033 m/yr
| VY = 0.0001 m/yr eastward = -0.0138 m/yr
| VZ = 0.0023 m/yr upward = -0.0007 m/yr

| NAD_83 (2011) POSITION (EPOCH 2010.0)

| Transformed from IGS08 (epoch 2005.0) position in Aug 2011.

| X = 896284.697 m latitude = 35 57 56.48686 N
| Y = -5090144.752 m longitude = 080 00 48.93737 W
| Z = 3725268.521 m ellipsoid height = 267.948 m

| NAD_83 (2011) VELOCITY

| Transformed from IGS08 velocity in Aug 2011.

| VX = 0.0016 m/yr northward = -0.0002 m/yr
| VY = 0.0014 m/yr eastward = 0.0018 m/yr
| VZ = -0.0011 m/yr upward = -0.0015 m/yr

| L1 Phase Center of the current GPS antenna: HIGH POINT CORS L1 PC C

| The Zephyr GNSS Geodetic II - RoHS compliant antenna

| (Antenna Code = TRM57971.00 NONE) was installed on 08Apr2010.

| The L2 phase center is 0.009 m below the L1 phase center.

PID = DL7120

| IGS08 POSITION (EPOCH 2005.0)

| Computed in Aug 2011 using data through gpswk 1631.

| X = 896284.034 m latitude = 35 57 56.51346 N

| Y = -5090143.329 m longitude = 080 00 48.95358 W
| Z = 3725268.434 m ellipsoid height = 266.668 m

| The IGS08 VELOCITY of the L1 PC is the same as that for the ARP.

| NAD_83 (2011) POSITION (EPOCH 2010.0)

| Transformed from IGS08 (epoch 2005.0) position in Aug 2011.

| X = 896284.706 m latitude = 35 57 56.48689 N
| Y = -5090144.805 m longitude = 080 00 48.93738 W
| Z = 3725268.562 m ellipsoid height = 268.014 m

| The NAD_83 (2011) VELOCITY of the L1 PC is the same as that for the ARP.

* Latitude, longitude and ellipsoid height are computed from their corresponding cartesian coordinates using dimensions for the GRS 80 ellipsoid: semi-major axis = 6,378,137.0 meters
flattening = 1/298.257222101...

* WARNING: Mixing of antenna types can lead to errors of up to 10 cm. in height unless antenna-phase-center variation and antenna-phase-center offset are properly modeled. See next comment.

* The coordinates shown on this page were computed using absolute antenna calibrations. CORS coordinates began using absolute antenna calibrations beginning with IGS08 and NAD 83 (2011, MA11, PA11). For additional information on the derivation of these positions and velocities and antenna calibrations consult:

<http://geodesy.noaa.gov/CORS/coords.shtml>

<http://geodesy.noaa.gov/ANTCAL>

* For more site specific information on the equipment history and monumentation type consult:

ftp://geodesy.noaa.gov/cors/station_log/hipt.log.txt

http://geodesy.noaa.gov/cgi-cors/corsage_2.prl?site=hipt

* The ITRF97 & NAD_83 positions were revised in July 2000.

* The NAD_83 position & velocity were revised in Mar. 2002.

- * The ITRF00 position & velocity were revised in Aug. 2007.
- * The position & velocity were revised in Aug 2011.