

OPUS-RS solution : 018697_14_246_A2.14O OP1410197103780

opus <opus@ngs.noaa.gov>

Mon 9/8/2014 11:31 AM

To:John Freetly <John.Freetly@neciusa.com>;

FILE: 018697_14_246_A2.14O OP1410197103780

NGS OPUS-RS SOLUTION REPORT

=====

All computed coordinate accuracies are listed as 1-sigma RMS values.

For additional information: <http://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>USER: john.freetly@neciusa.com
RINEX FILE: 0186246x.14oDATE: September 08, 2014
TIME: 17:30:41 UTCSOFTWARE: rsgps 1.37 RS94.prl 1.99.2 START: 2014/09/03 23:46:50
EPHEMERIS: igr18083.eph [rapid] STOP: 2014/09/04 01:33:10
NAV FILE: brdc2460.14n OBS USED: 5355 / 6120 : 88%
ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 13.98/ 27.17
ARP HEIGHT: 1.800 NORMALIZED RMS: 0.341

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.67405)

X: -1362023.555(m) 0.006(m) -1362024.414(m) 0.006(m)
Y: -4293303.380(m) 0.011(m) -4293302.126(m) 0.011(m)
Z: 4502404.051(m) 0.011(m) 4502404.009(m) 0.011(m)LAT: 45 10 52.11476 0.008(m) 45 10 52.13529 0.008(m)
E LON: 252 23 55.30756 0.005(m) 252 23 55.25270 0.005(m)
W LON: 107 36 4.69244 0.005(m) 107 36 4.74730 0.005(m)
EL HGT: 1188.934(m) 0.014(m) 1188.245(m) 0.014(m)
ORTHO HGT: 1202.067(m) 0.017(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 13) SPC (2500 MT)

Northing (Y) [meters] 5006365.486 105302.890
Easting (X) [meters] 295624.887 749203.629
Convergence [degrees] -1.84584182 1.38890450
Point Scale 1.00011361 0.99989610
Combined Factor 0.99992722 0.99970975

US NATIONAL GRID DESIGNATOR: 13TBL9562406365(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DM7161	WYSH SHERIDAN CORS ARP	N444801.769	W1070035.715	62974.9
DI3062	BIL5 BILLINGS 5 CORS ARP	N455816.237	W1075947.298	93081.0
DG9745	MTEI ENGINC CORS ARP	N454447.035	W1083600.736	100263.5
DL7758	P722 YNPBASSRCHMT2005 CORS ARP	N452725.985	W1093415.586	157482.2
AI5647	MAWY MAMMOTH WYOMING CORS ARP	N445824.319	W1104121.433	244271.9

NEAREST NGS PUBLISHED CONTROL POINT

Information on nearest mark is not available due to database connectivity issues or has restrictions on when or how it can be published.

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.