

OPUS-RS solution : 018697_14_261_A0.14O OP1411507538010

opus <opus@ngs.noaa.gov>

Tue 9/23/2014 3:43 PM

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

FILE: 018697_14_261_A0.14O OP1411507538010

6011 Warning - OPUS-RS was able to find a set of reference stations
 6011 with data suitable for use with your dataset. However, your
 6011 position does not fall within the polygon enclosing these reference
 6011 stations. This means that the geographic interpolation algorithms
 6011 performed within OPUS-RS must instead perform extrapolation.
 6011 Extrapolation, especially if your position is far from the
 6011 reference stations, is prone to error. Use this solution with
 6011 caution.

wysb

bil6

p033

mtei

p722

Your station is 1.8 KM outside the polygon enclosing the reference stations

NGS OPUS-RS SOLUTION REPORT

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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

DATE: September 23, 2014

RINEX FILE: 0186261t.14o

TIME: 21:42:52 UTC

SOFTWARE: rsgps 1.37 RS52.prl 1.99.2 START: 2014/09/18 19:41:20
 EPHEMERIS: igr18104.eph [rapid] STOP: 2014/09/18 20:42:05
 NAV FILE: brdc2610.14n OBS USED: 3200 / 3645 : 88%
 ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 30.69/ 54.71
 ARP HEIGHT: 1.800 NORMALIZED RMS: 0.288

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

IGS08 (EPOCH:2014.71463)

X: -1336311.655(m) 0.005(m) -1336312.514(m) 0.005(m)

Y: -4308556.628(m) 0.014(m) -4308555.372(m) 0.014(m)

Z: 4495567.427(m) 0.025(m) 4495567.383(m) 0.025(m)

LAT: 45 5 38.48951 0.008(m) 45 5 38.51018 0.008(m)
 E LON: 252 46 6.84407 0.003(m) 252 46 6.78955 0.003(m)
 W LON: 107 13 53.15593 0.003(m) 107 13 53.21045 0.003(m)
 EL HGT: 1180.853(m) 0.027(m) 1180.154(m) 0.027(m)
 ORTHO HGT: 1194.612(m) 0.029(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 13) SPC (2500 MT)

Northing (Y) [meters]	4995817.715	96399.075
Easting (X) [meters]	324416.972	778541.792
Convergence [degrees]	-1.58085036	1.65946688
Point Scale	0.99997909	0.99994487
Combined Factor	0.99979399	0.99975977

US NATIONAL GRID DESIGNATOR: 13TCK2441695817(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DM7161	WYSH SHERIDAN CORS ARP	N444801.769	W1070035.715	37016.4
DI3064	BIL6 BILLINGS 6 CORS ARP	N455816.251	W1075948.499	114376.9
DJ8992	P033 TENSLEEPTRWY2005 CORS ARP	N435710.415	W1072315.121	127434.7
DG9745	MTEI ENGINC CORS ARP	N454447.035	W1083600.736	129377.2
DL7758	P722 YNPBASSRCHMT2005 CORS ARP	N452725.985	W1093415.586	187990.5

NEAREST NGS PUBLISHED CONTROL POINT

QV0316	RED BLUFF	N450211.338	W1071134.002	7090.0
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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.