

OPUS-RS solution : 018772_14_269_A0.14O OP1411940280153

opus <opus@ngs.noaa.gov>

Sun 9/28/2014 3:42 PM

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

FILE: 018772_14_269_A0.14O OP1411940280153

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.

wysh
 bil6
 mtei
 p722

Your station is 9.4 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
 RINEX FILE: 0187269u.14o

DATE: September 28, 2014
 TIME: 21:42:08 UTC

SOFTWARE: rsgps 1.37 RS90.prl 1.99.2 START: 2014/09/26 20:15:30
 EPHEMERIS: igr18115.eph [rapid] STOP: 2014/09/26 21:15:30
 NAV FILE: brdc2690.14n OBS USED: 2392 / 2476 : 97%
 ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 18.91/ 54.44
 ARP HEIGHT: 1.8000 NORMALIZED RMS: 0.327

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

IGS08 (EPOCH:2014.73662)

X: -1327582.207(m) 0.002(m) -1327583.066(m) 0.002(m)
 Y: -4312059.279(m) 0.012(m) -4312058.022(m) 0.012(m)
 Z: 4495177.123(m) 0.007(m) 4495177.079(m) 0.007(m)

LAT: 45 5 11.92133 0.006(m) 45 5 11.94208 0.006(m)
 E LON: 252 53 15.44961 0.004(m) 252 53 15.39517 0.004(m)
 W LON: 107 6 44.55039 0.004(m) 107 6 44.60483 0.004(m)
 EL HGT: 1447.505(m) 0.013(m) 1446.804(m) 0.013(m)
 ORTHO HGT: 1461.467(m) 0.016(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

	UTM (Zone 13)	SPC (2500 MT)
Northing (Y) [meters]	4994746.234	95857.835
Easting (X) [meters]	333763.703	787934.040
Convergence [degrees]	-1.49627317	1.74655764
Point Scale	0.99993980	0.99994910
Combined Factor	0.99971292	0.99972222

US NATIONAL GRID DESIGNATOR: 13TCK3376394746(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DM7161	WYSH SHERIDAN CORS ARP	N444801.769	W1070035.715	32820.0
DI3064	BIL6 BILLINGS 6 CORS ARP	N455816.251	W1075948.499	120178.4
DG9745	MTEI ENGINC CORS ARP	N454447.035	W1083600.736	137639.3
DL7758	P722 YNPBASSRCHMT2005 CORS ARP	N452725.985	W1093415.586	197310.4

NEAREST NGS PUBLISHED CONTROL POINT

QV0414	BEAR	N450830.066	W1070941.881	7246.7
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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.