

OPUS solution : 018506_14_230_A0.14O OP1408468515462

opus <opus@ngs.noaa.gov>

Tue 8/19/2014 11:18 AM

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

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2005 NOTE: The IGS precise and IGS rapid orbits were not available
 2005 at processing time. The IGS ultra-rapid orbit was/will be used to
 2005 process the data.
 2005

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information: <http://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: john.freetly@neciusa.com DATE: August 19, 2014
 RINEX FILE: 0185230r.14o TIME: 17:17:54 UTC

SOFTWARE: page5 1209.04 master53.pl 022814 START: 2014/08/18 17:36:00
 EPHEMERIS: igu18061.eph [ultra-rapid] STOP: 2014/08/18 21:22:00
 NAV FILE: brdc2300.14n OBS USED: 9135 / 9752 : 94%
 ANT NAME: CHCX91R NONE # FIXED AMB: 47 / 48 : 98%
 ARP HEIGHT: 1.8000 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.6296)

X: -1371461.057(m) 0.001(m) -1371461.934(m) 0.001(m)
 Y: -4008275.506(m) 0.014(m) -4008274.285(m) 0.014(m)
 Z: 4752988.465(m) 0.012(m) 4752988.460(m) 0.012(m)

LAT: 48 28 47.84053 0.002(m) 48 28 47.86154 0.002(m)
 E LON: 251 6 40.46152 0.004(m) 251 6 40.40188 0.004(m)
 W LON: 108 53 19.53848 0.004(m) 108 53 19.59812 0.004(m)
 EL HGT: 758.703(m) 0.017(m) 758.122(m) 0.017(m)
 ORTHO HGT: 774.912(m) 0.031(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 12) SPC (2500 MT)

Northing (Y) [meters] 5371800.204 470220.894
 Easting (X) [meters] 656018.393 645176.256
 Convergence [degrees] 1.58105245 0.44712413

Point Scale	0.99989907	0.99972252
Combined Factor	0.99978019	0.99960366

US NATIONAL GRID DESIGNATOR: 12UXU5601871800(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DI3422	P050 WICKUMRNCHMT2006	CORS ARP	N484834.096 W1111454.296	177719.2
DL7731	P053 WHITEWATERMT2007	CORS ARP	N484333.865 W1074331.456	90068.0
DI3425	P052 LRRNCHJRDNMT2006	CORS ARP	N472229.026 W1070107.185	186104.8

NEAREST NGS PUBLISHED CONTROL POINT

TK0442	CACTUS ET	N483131.009	W1085716.327	6999.6
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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.