

Lee Drennan

From: opus <opus@ngs.noaa.gov>
Sent: Wednesday, April 15, 2015 8:18 AM
To: Lee Drennan
Subject: OPUS solution : 42311040.15o OP1429103731154

Follow Up Flag: Follow up
Flag Status: Flagged

FILE: 42311040.15o OP1429103731154

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: ldrennan@mphinc.com DATE: April 15, 2015
RINEX FILE: 4231104n.15o TIME: 13:17:35 UTC

SOFTWARE: page5 1209.04 master50.pl 022814 START: 2015/04/14 13:43:00
EPHEMERIS: igu18402.eph [ultra-rapid] STOP: 2015/04/14 16:00:00
NAV FILE: brdc1040.15n OBS USED: 5246 / 6874 : 76%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 67 / 82 : 82%
ARP HEIGHT: 2.25 OVERALL RMS: 0.030(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2015.2839)

X: -30189.439(m) 0.023(m) -30190.220(m) 0.023(m)
Y: -5553961.065(m) 0.087(m) -5553959.562(m) 0.087(m)
Z: 3125235.181(m) 0.040(m) 3125234.997(m) 0.040(m)

LAT: 29 31 51.69069 0.021(m) 29 31 51.70949 0.021(m)
E LON: 269 41 18.82587 0.023(m) 269 41 18.79656 0.023(m)
W LON: 90 18 41.17413 0.023(m) 90 18 41.20344 0.023(m)
EL HGT: -24.786(m) 0.088(m) -26.181(m) 0.088(m)
ORTHO HGT: 0.099(m) 0.150(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES
UTM (Zone 15) SPC (1702 LA S)
Northing (Y) [meters] 3269835.674 114726.219
Easting (X) [meters] 760565.710 1099053.889
Convergence [degrees] 1.32592659 0.51096101

Point Scale	1.00043783	0.99995914
Combined Factor	1.00044172	0.99996303

US NATIONAL GRID DESIGNATOR: 15RYN6056569835(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	41104.1
DH7121	GRIS GRAND ISLE CORS ARP	N291555.883	W0895726.262	45250.6
DF5771	LMCN LUMCON CORS ARP	N291517.904	W0903940.652	45710.9

NEAREST NGS PUBLISHED CONTROL POINT

AU1126	R 155	N293245.829	W0902020.741	3158.8
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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.