



Lodermeier, Blaise <bloderme@blm.gov>

OPUS solution : log20150707_091137.tps OP1436315842085

1 message

opus <opus@ngs.noaa.gov>
Reply-To: ngs.opus@noaa.gov
To: bloderme@blm.gov

Tue, Jul 7, 2015 at 6:39 PM

FILE: log20150707_091137.tps OP1436315842085

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: bloderme@blm.gov DATE: July 08, 2015
RINEX FILE: log2188q.15o TIME: 00:38:38 UTC

SOFTWARE: page5 1209.04 master93.pl 022814 START: 2015/07/07 16:23:00
EPHEMERIS: igu18522.eph [ultra-rapid] STOP: 2015/07/07 18:30:00
NAV FILE: brdc1880.15n OBS USED: 5636 / 5667 : 99%
ANT NAME: TPSGR5 NONE # FIXED AMB: 33 / 33 : 100%
ARP HEIGHT: 0.560832 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2015.5143)

X: -1078365.253(m) 0.018(m) -1078366.125(m) 0.018(m)
Y: -4310486.152(m) 0.008(m) -4310484.891(m) 0.008(m)
Z: 4561674.844(m) 0.016(m) 4561674.802(m) 0.016(m)

LAT: 45 56 42.97428 0.008(m) 45 56 42.99688 0.008(m)
E LON: 255 57 16.03015 0.017(m) 255 57 15.97667 0.017(m)
W LON: 104 2 43.96985 0.017(m) 104 2 44.02333 0.017(m)
EL HGT: 911.602(m) 0.015(m) 910.869(m) 0.015(m)
ORTHO HGT: 927.497(m) 0.027(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES
UTM (Zone 13) SPC (2500 MT)
Northing (Y) [meters] 5088409.565 203111.348
Easting (X) [meters] 573978.215 1022410.458
Convergence [degrees] 0.68597325 3.98995517
Point Scale 0.99966728 0.99956439
Combined Factor 0.99952444 0.99942156

US NATIONAL GRID DESIGNATOR: 13TEL7397888409(NAD 83)

BASE STATIONS USED
PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DK4097 MDR5 MEDORA 5 CORS ARP N465418.562 W1031628.795 122063.5
DI2251 P043 NEWCASTLE_WY2006 CORS ARP N435252.101 W1041108.484 229685.4
DP1963 SDRC RAPID CITY CORS ARP N440457.973 W1031332.337 216857.6

NEAREST NGS PUBLISHED CONTROL POINT

RT0463 BLASER N460307.416 W1040838.500 14117.9

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.