

6030 ***** WARNING *****
6030 One or both of the standard deviations associated with
6030 horizontal coordinates is greater than 5 cm, and/or the
6030 standard deviation associated with the vertical coordinate
6030 is greater than 10 cm. This means that the vectors used to
6030 determine your position did not agree as well as expected.
6030 Often this is the result of problems with the adopted coordinates
6030 at one or more of the reference stations selected by OPUS-RS.
6030 If a problem reference station can be identified, it can
6030 be excluded with the Exclude feature on the OPUS Options
6030 page.
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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: elcaba007@yahoo.com DATE: September 19, 2014
RINEX FILE: 0185258r.14o TIME: 19:00:02 UTC

SOFTWARE: rsgps 1.37 RS54.prl 1.99.2 START: 2014/09/15 17:11:05
EPHEMERIS: igr18101.eph [rapid] STOP: 2014/09/15 18:08:55
NAV FILE: brdc2580.14n OBS USED: 1038 / 3864 : 27%
ANT NAME: CHCX90D-OPUS NONE QUALITY IND. 7.35/ 8.76
ARP HEIGHT: 2.0 NORMALIZED RMS: 0.359

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.70613)

X: -1299798.669(m) 0.045(m) -1299799.532(m) 0.045(m)
Y: -4243176.281(m) 0.141(m) -4243175.032(m) 0.141(m)
Z: 4567093.874(m) 0.028(m) 4567093.839(m) 0.028(m)

LAT: 46 0 53.77376 0.090(m) 46 0 53.79491 0.090(m)
 E LON: 252 58 7.56856 0.007(m) 252 58 7.51321 0.007(m)
 W LON: 107 1 52.43144 0.007(m) 107 1 52.48679 0.007(m)
 EL HGT: 963.359(m) 0.121(m) 962.680(m) 0.121(m)
 ORTHO HGT: 978.246(m) 0.121(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 13) SPC (2500 MT)

Northing (Y) [meters]	5097712.979	199148.972
Easting (X) [meters]	342760.537	791068.470
Convergence [degrees]	-1.46181129	1.80591493
Point Scale	0.99990395	0.99954276
Combined Factor	0.99975296	0.99939183

US NATIONAL GRID DESIGNATOR: 13TCL4276097712(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DI3062	BIL5 BILLINGS 5 CORS ARP	N455816.237	W1075947.298	74948.0
DM7161	WYSH SHERIDAN CORS ARP	N444801.769	W1070035.715	135004.4
DI3425	P052 LRRNCHJRDNMT2006 CORS ARP	N472229.026	W1070107.185	151182.4
DI2260	P054 TEREKALAKAMT2006 CORS ARP	N455046.833	W1042629.062	201754.2
DI2263	P055 GLENDIVEWTMT2006 CORS ARP	N470700.144	W1044106.394	217616.2
DM7133	MTLW LEWISTOWN CORS ARP	N470314.929	W1092633.764	218112.3

NEAREST NGS PUBLISHED CONTROL POINT

QV0308	BEAVER	N455957.582	W1065704.230	6429.1
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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.