

From: opus <opus@ngs.noaa.gov>
Sent: Wednesday, February 05, 2014 9:55 AM
To:
Subject: OPUS-RS solution : 73660290.14o OP1391618187274

FILE: 73660290.14o OP1391618187274

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.

Your station is 16.1 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 _____ DATE: February 05, 2014
RINEX FILE: 7366029b.14o TIME: 16:54:13 UTC

SOFTWARE: rsgps 1.37 RS80.prl 1.89 START: 2014/01/29 01:48:30
EPHEMERIS: igr17773.eph [rapid] STOP: 2014/01/29 02:20:30
NAV FILE: brdc0290.14n OBS USED: 4599 / 4815 : 96%
ANT NAME: TRM5800 NONE QUALITY IND. 29.76/ 40.31
ARP HEIGHT: 0.671 NORMALIZED RMS: 0.314

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2014.07695)

X: -2003430.064(m) 0.006(m) -2003430.864(m) 0.006(m)
Y: -4944322.102(m) 0.012(m) -4944320.744(m) 0.012(m)
Z: 3485366.436(m) 0.006(m) 3485366.307(m) 0.006(m)

LAT: 33 20 2.76917 0.005(m) 33 20 2.78276 0.005(m)
E LON: 247 56 32.28320 0.007(m) 247 56 32.23481 0.007(m)
W LON: 112 3 27.71680 0.007(m) 112 3 27.76519 0.007(m)
EL HGT: 710.310(m) 0.012(m) 709.439(m) 0.012(m)
ORTHO HGT: 740.040(m) 0.020(m) [NAVD88 (Computed using GEOID12A)]

UTM COORDINATES STATE PLANE COORDINATES
UTM (Zone 12) SPC (0202 AZ C)

Northing (Y) [meters]	3688825.886	258811.172
Easting (X) [meters]	401565.998	200231.271
Convergence [degrees]	-0.58127376	-0.07750029
Point Scale	0.99971946	0.99990212
Combined Factor	0.99960799	0.99979063

US NATIONAL GRID DESIGNATOR: 12SVB0156588825(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL3063	AZTP TEMPE CORS ARP	N332644.464	W1115615.468	16677.0
AH3759	COSA SCOTTSDALE CORS ARP	N333407.380	W1115255.734	30721.1
DN6063	AZST SAN TAN PARK CORS ARP	N331004.097	W1113806.989	43475.9
DF5763	AZGB GILA COUNTY CORS ARP	N332343.276	W1104617.190	119915.6
DL6010	AZSV STAR VALLEY CORS ARP	N341553.968	W1111425.809	128035.0
DL1898	AZPS PRESCOTT CORS ARP	N343630.818	W1122738.595	146214.7
DM2672	PIMA PIMA COMM COLLEGE CORS ARP	N321340.635	W1110107.026	156614.2
AI3680	COT1 TUCSON CORS ARP	N321328.026	W1105818.719	159674.3
DF7063	COT2 CITY OF TUCSON 2 CORS ARP	N321414.925	W1104951.313	167336.6

NEAREST NGS PUBLISHED CONTROL POINT

DV2085	PHOENIX TV STATION KPHO TOWER	N332002.382	W1120342.003	369.3
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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.