

From: opus [opus@ngs.noaa.gov]
 Sent: Thursday, March 15, 2018 3:47 PM
 To: Vladimir Prasolov at JAVAD GNSS
 Subject: OPUS-RS solution : 1_090612.18o OP1521117823415

FILE: 1_090612.18o OP1521117823415

NGS OPUS-RS SOLUTION REPORT
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All computed coordinate accuracies are listed as 1-sigma RMS values.
 For additional information: <https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: f.bakharev@javad.com
 RINEX FILE: 1_09058t.18o

DATE: March 15, 2018
 TIME: 12:46:11 UTC

SOFTWARE: rsgps 1.38 RS91.pr1 1.99.3
 EPHEMERIS: igr19902.eph [rapid]
 NAV FILE: brdc0580.18n
 ANT NAME: JAVTRIUMPH_2A NONE
 ARP HEIGHT: 1.36

START: 2018/02/27 19:00:00
 STOP: 2018/02/27 20:00:00
 OBS USED: 3771 / 4392 : 86%
 QUALITY IND. 30.76/ 45.78
 NORMALIZED RMS: 0.254

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2018.15839)

X:	-2174887.362(m)	0.009(m)	-2174888.293(m)	0.009(m)
Y:	-3728127.330(m)	0.013(m)	-3728126.137(m)	0.013(m)
Z:	4681094.950(m)	0.012(m)	4681094.953(m)	0.012(m)
LAT:	47 30 52.31250	0.008(m)	47 30 52.32596	0.008(m)
E LON:	239 44 30.78211	0.005(m)	239 44 30.71497	0.005(m)
W LON:	120 15 29.21789	0.005(m)	120 15 29.28503	0.005(m)
EL HGT:	685.980(m)	0.018(m)	685.604(m)	0.018(m)
ORTHO HGT:	705.195(m)	0.025(m)	[NAVD88 (Computed using GEOID12B)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 10)	SPC (4601 WA N)
Northing (Y) [meters]	5265988.652	57368.661
Easting (X) [meters]	706436.871	543326.441
Convergence [degrees]	2.02270934	0.42826094
Point Scale	1.00012374	0.99999732
Combined Factor	1.00001622	0.99988981

US NATIONAL GRID DESIGNATOR: 10TGT0643665988(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DK4088	BREW BREWSTER VLBA CORS ARP	N480753.468	W1194057.421	81019.2
DH4096	P451 WSUOTHELO_WA2004 CORS ARP	N464734.014	W1190228.842	122290.1
CQ6015	LINH LIND HALL CORS ARP	N470001.191	W1203218.545	60983.9
AF9674	SEAT SEATTLE CORS ARP	N473914.301	W1221834.051	155086.6
DN5852	RKD1 OROVILLE AIRPORT CORS ARP	N485751.648	W1192446.839	173008.3
DN5846	PDTN PENDLETON CORS ARP	N453957.391	W1184524.883	235502.0

DN5822	HAHD	HOWARD HANSON CORS ARP	N471726.867	W1214717.038	118143.8
AF9670	SEDR	SEDR_PNGA_WA1997 CORS ARP	N483117.592	W1221325.789	184497.4
DE6548	DRAO	PENTICTON CORS ARP	N491921.410	W1193729.875	206454.6

NEAREST NGS PUBLISHED CONTROL POINT

SX1110	BADGER MOUNTAIN LOOKOUT TOWER	N473037.070	W1201435.071	1226.9
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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.