



Doug Suttles <doug@suttlessurvey.com>

OPUS-RS solution : 1001_125016.18o OP1525779733474

1 message

opus <opus@ngs.noaa.gov>
 Reply-To: ngs.opus@noaa.gov
 To: doug@suttlessurvey.com

Tue, May 8, 2018 at 7:47 AM

FILE: 1001_125016.18o OP1525779733474

NGS OPUS-RS SOLUTION REPORT

=====

All computed coordinate accuracies are listed as 1-sigma RMS values.

For additional information: <https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: doug@suttlessurvey.com
 RINEX FILE: 1001124q.18o

DATE: May 08, 2018
 TIME: 11:46:36 UTC

SOFTWARE: rsgps 1.38 RS58.prl 1.99.3 START: 2018/05/04 16:50:35
 EPHEMERIS: igr19995.eph [rapid] STOP: 2018/05/04 17:20:43
 NAV FILE: brdc1240.18n OBS USED: 2547 / 3213 : 79%
 ANT NAME: JAVTRIUMPH_LSA NONE QUALITY IND. 3.35/ 20.34
 ARP HEIGHT: 1.54430 NORMALIZED RMS: 0.411

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2018.33894)

X:	791047.235(m)	0.010(m)	791046.381(m)	0.010(m)
Y:	-5129550.986(m)	0.062(m)	-5129549.516(m)	0.062(m)
Z:	3695073.615(m)	0.043(m)	3695073.510(m)	0.043(m)

LAT:	35 37 49.42088	0.008(m)	35 37 49.44803	0.008(m)
E LON:	278 46 0.24679	0.007(m)	278 46 0.22217	0.007(m)
W LON:	81 13 59.75321	0.007(m)	81 13 59.77783	0.007(m)
EL HGT:	235.272(m)	0.076(m)	233.924(m)	0.076(m)
ORTHO HGT:	267.181(m)	0.078(m)	[NAVD88 (Computed using GEOID12B)]	

UTM COORDINATES STATE PLANE COORDINATES

	UTM (Zone 17)	SPC (3200 NC)
Northing (Y) [meters]	3942980.133	210869.277
Easting (X) [meters]	478878.720	407344.883
Convergence [degrees]	-0.13588989	-1.28897400
Point Scale	0.99960550	0.99989436
Combined Factor	0.99956859	0.99985744

US NATIONAL GRID DESIGNATOR: 17SMV7887842980(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DK4047	NCNW NORTH WILKESBORO CORS ARP	N360959.275	W0810757.224	60173.8
DF6318	NC77 I77 WELCOME CNTR CORS ARP	N350721.254	W0805458.467	63280.9
DK4043	NCSP SPINDALE CORS ARP	N352155.834	W0815457.348	68560.3
DE8230	MARI MARION CORS ARP	N353913.385	W0815716.172	65375.1
DN5840	NCSA SALISBURY CORS ARP	N354241.692	W0802555.994	73082.9
DF7471	NCCO CONCORD CORS ARP	N352235.243	W0803351.113	66922.8
DK7758	SCUN UNION CORS ARP	N344558.605	W0813855.699	103068.9
DF4365	ASUB ASU-BOONE CORS ARP	N361250.844	W0814054.647	76391.2

5/8/2018

Suttles Surveying, PA Mail - OPUS-RS solution : 1001_125016.18o OP1525779733474

DG5757 NCLE LEXINGTON CORS ARP N354853.143 W0801346.202 93096.1

NEAREST NGS PUBLISHED CONTROL POINT

FA1530 G 251 N353809. W0811326. 1041.8

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.