



Doug Suttles <doug@suttlessurvey.com>

OPUS-RS solution : 1001_125016.18o OP1525779733474

1 message

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

Tue, May 8, 2018 at 7:47 AM

FILE: 1001_125016.18o OP1525779733474

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: doug@suttlessurvey.com DATE: May 08, 2018
RINEX FILE: 1001124q.18o 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

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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.