

Bywater-Reyes, Sharon

From: opus <opus@ngs.noaa.gov>
Sent: Monday, June 22, 2020 11:00 AM
To: Bywater-Reyes, Sharon
Subject: [External]OPUS solution : SHPD1700.200 OP1592845120771

FILE: SHPD1700.200 OP1592845120771

NGS OPUS SOLUTION REPORT =====

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information:

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Csharon.bywaterreyes%40unco.edu%7Cb1f7d52d36044d6aca4908d816cdbc0b%7Cb4dce27cd088445499652b59a23ea171%7C0%7C0%7C637284420199567382&sdata=COFMbeifXWhgRhLdyw2Oh0uO8%2FpTVpOqY4yvUsb1dd8%3D&reserved=0>

USER: sharon.bywaterreyes@unco.edu DATE: June 22, 2020
RINEX FILE: shpd170n.20o TIME: 17:00:03 UTC

SOFTWARE: page5 1801.18 master90.pl 160321 START: 2020/06/18 13:12:00
EPHEMERIS: igr21104.eph [rapid] STOP: 2020/06/18 19:18:00
NAV FILE: brdc1700.20n OBS USED: 15600 / 16197 : 96%
ANT NAME: APSAPS-3 NONE # FIXED AMB: 59 / 61 : 97%
ARP HEIGHT: 1.619113 OVERALL RMS: 0.011(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2020.4636)

X: -1240058.609(m) 0.002(m) -1240059.530(m) 0.002(m)
Y: -4701102.051(m) 0.003(m) -4701100.740(m) 0.003(m)
Z: 4116598.369(m) 0.002(m) 4116598.247(m) 0.002(m)

LAT: 40 26 40.59964 0.001(m) 40 26 40.61832 0.001(m)
E LON: 255 13 23.10618 0.003(m) 255 13 23.05420 0.003(m)
W LON: 104 46 36.89382 0.003(m) 104 46 36.94580 0.003(m)
EL HGT: 1414.128(m) 0.003(m) 1413.263(m) 0.003(m)
ORTHO HGT: 1432.031(m) 0.049(m) [NAVD88 (Computed using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES
UTM (Zone 13) SPC (0501 CO N)
Northing (Y) [meters] 4477130.485 428437.694
Easting (X) [meters] 518918.402 975743.537
Convergence [degrees] 0.14471944 0.46720833
Point Scale 0.99960441 0.99996256
Combined Factor 0.99938271 0.99974078

US NATIONAL GRID DESIGNATOR: 13TEE1891877130(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
	NIST	64829.0		
DL2742	COFC FORT COLLINS CORS ARP	N403536.107	W1050937.568	36466.7
DG7429	P041 MARSHALL FIELD CORS ARP	N395658.150	W1051139.316	65479.0

NEAREST NGS PUBLISHED CONTROL POINT

AB2126	SC 9 4694	N402701.327	W1044624.971	698.4
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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.

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