

DPOS REPORT
JAVAD POST-PROCESSING SERVICE
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USER: DATE: 10/9/2020
FILE: 5001 TIME: 1:21:24 AM

SOFTWARE: Justin v.3(8/28/2020 9:44:30 AM) START: 10/8/2020 5:08:31 PM
EPHEMERIS: brdc STOP: 10/8/2020 7:25:33 PM
OBS USED: 12168 / 13955 TIME SPAN: 136
ANT NAME: JAVTRIUMPH_2A NONE FIXED AMB: No
ANT HEIGHT: Slant (SHMP) 5.010(sf) OVERALL RMS: 0.002(sf)
ANT DELTA N/E/H: 0.000/0.000/0.000

REF FRAME: NAD83(2011) (EPOCH:2010.0000) ITRF2014 (EPOCH:2020.7712)

X:	3147709.590(sf)	0.001(sf)	3147706.655(sf)	0.001(sf)
Y:	-16630845.659(sf)	0.002(sf)	-16630840.833(sf)	0.002(sf)
Z:	12263585.627(sf)	0.001(sf)	12263585.339(sf)	0.001(sf)
LAT:	N 36° 06' 27.87718"	0.001(sf)	N 36° 06' 27.90568"	0.001(sf)
E LON:	E 280° 43' 03.20854"	0.001(sf)	E 280° 43' 03.18442"	0.001(sf)
W LON:	W 79° 16' 56.79146"	0.001(sf)	W 79° 16' 56.81558"	0.001(sf)
EL HGT:	508.420(sf)	0.001(sf)	503.979(sf)	0.001(sf)
ORTHO HGT:	607.717(sf)	0.001(sf)	[NAVD88 (Computed using GEOID18)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (North Carolina)
Northing (Y)	[survey feet]13114359.143	858239.021
Easting (X)	[survey feet]2147619.420	1916565.476
Convergence [degrees]	1.01051109	-0.16301716
Point Scale	0.99989449	0.99998409
Combined Factor	0.99987017	0.99995977

US NATIONAL GRID DESIGNATOR:

	BASE STATIONS USED		
PID DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(sf)
NONE COLA	N 34° 04' 51.55873"	W 81° 07' 18.01493"	920193.782

	RESIDUALS OF POSITION					
VECTOR	dX (sf)	dY (sf)	dZ (sf)	dN (sf)	dE (sf)	dU (sf)
	0.001	0.002	0.001	0.001	0.001	0.001

Single solution report

Solution name:	COLA - 5001	Solution type:	Float
Processed at:	10/9/2020 1:21:06 AM	Fix ratio:	0%
Begin time:	10/8/2020 5:09:00 PM	Time span, min:	136
End time:	10/8/2020 7:25:30 PM	Rec interval, sec:	30.000
Measurement used:	12168 of 13955 (13% discarded)	RMS residual:	0.071(m)

Used satellites: GPS(10)/GLONASS(10)
Used obs:

Ephemeris:	Broadcast	Temperature, °C:	20
Cut off angle, °:	12	Pressure, hPa:	980
Processing mode:	Auto	Humidity, %:	50

Point name:	COLA	5001	
Session name:	cola2820.20d.Z	5001_130811.jps	
Receiver type:	TRIMBLE NETR9	JAVAD TRIUMPH2	
Receiver number:		00037	
Receiver ID:	5207K82302	014NCYOOD95AA1K6A742KICKQG	
Antenna type:	TRM55971.00 NONE	JAVTRIUMPH_2A NONE	
Serial number:	30336584		
Antenna ARP height, (m)	Vertical (ARP) -0.000	Slant (SHMP) -1.527	
Antenna delta N/E/H, (m)	0.000/0.000/0.000	0.000/0.000/0.000	
Phase center variations:			
X, m	816177.638	34.0959422.90947	36.1077515950054
Y, m	-5224934.041	-81.-5069090.424	-79.2824487729648
Z, m	3553937.051	81.53737948.2907	153.614416328301
Latitude	N 34° 04' 51.58501"	N 36° 06' 27.90574"	
Longitude	W 81° 07' 18.03978"	W 79° 16' 56.81558"	
Height, m	81.571	153.614	

DX, (m):	143245.2710	Sigma X, m:	0.0003
DY, (m):	155843.6175	Sigma Y, m:	0.0003
DZ, (m):	184011.2385	Sigma Z, m:	0.0003
Baseline length, (m):	280475.6258	SL, (m):	0.0007

Covariance matrix, (m):	X	Y	Z
X	1.152950E-007		
Y	2.800054E-009	2.123987E-007	

Z	-5.656084E-009	-1.307172E-007	1.316395E-007
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Ellipsoidal distance, (m): 280493.11984921
Forward azimuth, °: 36.19238986
Back azimuth, °: 217.250
Elevation angle forward, °: -1.247
Elevation angle backward, °: -1.277
Height difference, (m): 72.043