

DPOS REPORT JAVAD POST-PROCESSING SERVICE

=====

USER:
FILE: log0130b.jps

DATE: 31.01.2016
TIME: 13:30:32.900 GPS time

SOFTWARE: DPOS	START: 2016/01/30 06:38:57.000 PM
EPHEMERIS: brdc	STOP: 2016/01/30 10:45:05.000 PM
OBS USED: 22624 / 22690	Geometry factor: 0.8
ANT NAME: JAVTRIUMPH_2A NONE	FIXED AMB: Yes
ANT HEIGHT: Vertical(ARP) - 0.025 meters	OVERALL RMS: 0.006 meters

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

IGS08 (EPOCH:2016.0808)

X:	765721.680(m)	0.003(m)	765720.858(m)	0.003(m)
Y:	-5144667.509(m)	0.003(m)	-5144666.037(m)	0.003(m)
Z:	3679526.410(m)	0.003(m)	3679526.298(m)	0.003(m)

LAT: N 35 27 28.63442	0.003(m)	N 35 27 28.66114	0.003(m)
E LON: E 278 27 56.29731	0.002(m)	E 278 27 56.27365	0.002(m)
W LON: W 81 32 03.70269	0.002(m)	W 81 32 03.72635	0.002(m)
EL HGT:	271.080(m)	269.731(m)	0.004(m)
ORTHO HGT:	302.978(m)	[NAVD88 (Computed using GEOID12A)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (NAD83(2011) /3200 North Carolina)
Northing (Y) [meters]	3923961.516	192400.113
Easting (X) [meters]	451511.593	379593.162

US NATIONAL GRID DESIGNATOR: NONE

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
NONE	GAST(CORS)	N 35 18 39.791 W 81 11 19.5411		35380.0
NONE	NCHI(CORS)	N 35 44 31.010 W 81 18 30.9348		37570.3
NONE	NCMG(CORS)	N 35 42 27.073 W 81 39 23.9986		29827.7
NONE	NCSH(CORS)	N 35 16 53.642 W 81 29 28.1155		19960.7
NONE	NCSP(CORS)	N 35 21 55.834 W 81 54 57.3482		36144.7

RESIDUALS OF POSITION

DESIGNATION	X	Y	Z	North	East	Up
GAST - log0130b.	0.000	-0.012	0.009	0.001	-0.002	0.015
NCHI - log0130b.	0.000	0.022	-0.012	0.003	0.003	-0.025
NCMG - log0130b.	0.014	-0.004	0.002	-0.002	0.013	0.006
NCSH - log0130b.	-0.005	-0.003	0.001	-0.001	-0.005	0.002
NCSP - log0130b.	-0.006	0.006	-0.003	0.002	-0.005	-0.007

GNSS Solution Report

Solution name:	NCSP - log0130b.jps / Solution 1
Processed at:	1/31/2016 1:30:22 PM
Begin time:	30/01/2016 18:38:57.000
End time:	30/01/2016 22:45:05.000
Time span, min:	246
Rec interval, sec:	30.000
Processing mode:	Auto

Frequency: GPS L1 + L2, GLONASS L1 + L2
 Used satellites: GPS(17)/GLONASS(12)
 Solution type: Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	NCSP	log0130b
Session name:	ncsp0300.16d	log0130b
Receiver type:	TRIMBLE NETR5	JAVAD TRIUMPH2
Receiver number:	-Unknown-	00654
Receiver ID:	5001K65092	014Q4QK098U0Z0XUP4CA8AXRUS
Antenna type:	TRM57971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	1312118403	-Unknown-
Antenna ARP height, m:	0.000	0.025
Phase center variations:	On	On
Longitude:	W 81°54'57.372243"	W 81°32'03.726134"
Latitude:	N 35°21'55.860887"	N 35°27'28.661090"
Ellipsoid height, m:	301.4087	269.7380
X, m:	732282.0203	765720.8640
Y, m:	-5155561.2314	-5144666.0427
Z, m:	3671185.1006	3679526.3010

DX, m: 33438.8437
 DY, m: 10895.1886
 DZ, m: 8341.2004
 Baseline length, m: 36144.6681

SX, m: 1.016E-2
 SY, m: 1.809E-2
 SZ, m: 1.302E-2
 SL, m: 2.449E-2

Covariance matrix::	X	Y	Z
X	1.032E-4		
Y	-6.039E-5	3.273E-4	
Z	3.547E-5	-1.600E-4	1.695E-4

Ellipsoidal distance, m: 36143.0854
 Forward azimuth: 73°24'13.7439
 Back azimuth: 253°24'13.7439
 Elevation angle forward: 0°12'44.7426
 Elevation angle backward: 0°06'43.2589
 Height difference, m: -31.6706

Measurement used: 19856 of 19907 (0% discarded)
 RMS residual: 0.1115
 Fix ratio: 99.96%
 Contrast: 0.000E+0

Solution name: NCSH - log0130b.jps / Solution 1
 Processed at: 1/31/2016 1:30:24 PM
 Begin time: 30/01/2016 18:38:57.000
 End time: 30/01/2016 22:45:05.000
 Time span, min: 246
 Rec interval, sec: 30.000

Processing mode: Auto
 Frequency: GPS L1 + L2, GLONASS L1 + L2
 Used satellites: GPS(17)/GLONASS(13)
 Solution type: Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	NCSH	log0130b
Session name:	ncsh0300.16d	log0130b
Receiver type:	TRIMBLE NETR5	JAVAD TRIUMPH2
Receiver number:	-Unknown-	00654
Receiver ID:	4950K64644	014Q4QK098U0Z0XUP4CA8AXRUS
Antenna type:	TRM57971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	1441003339	-Unknown-
Antenna ARP height, m:	0.000	0.025
Phase center variations:	On	On
Longitude:	W 81°29'28.139061"	W 81°32'03.726155"
Latitude:	N 35°16'53.669004"	N 35°27'28.661170"
Ellipsoid height, m:	263.1084	269.7284
X, m:	771276.6767	765720.8622
Y, m:	-5155285.3273	-5144666.0337
Z, m:	3663564.0658	3679526.2975

DX, m: -5555.8146
 DY, m: 10619.2937
 DZ, m: 15962.2316
 Baseline length, m: 19960.6942

SX, m: 5.764E-3
 SY, m: 1.009E-2
 SZ, m: 7.507E-3
 SL, m: 1.384E-2

Covariance matrix::	X	Y	Z
X	3.322E-5		
Y	-1.832E-5	1.019E-4	
Z	1.101E-5	-5.149E-5	5.635E-5

Ellipsoidal distance, m: 19959.8649
 Forward azimuth: -11°20'08.4708
 Back azimuth: 168°39'51.5292
 Elevation angle forward: 0°04'15.3751
 Elevation angle backward: 0°06'32.1940
 Height difference, m: 6.6200

Measurement used: 20191 of 20240 (0% discarded)
 RMS residual: 0.1134
 Fix ratio: 100.00%
 Contrast: 0.000E+0

Solution name: NCMG - log0130b.jps / Solution 1
 Processed at: 1/31/2016 1:30:26 PM
 Begin time: 30/01/2016 18:38:57.000
 End time: 30/01/2016 22:45:05.000
 Time span, min: 246

Rec interval, sec: 30.000
 Processing mode: Auto
 Frequency: GPS L1 + L2, GLONASS L1 + L2
 Used satellites: GPS(17)/GLONASS(13)
 Solution type: Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	NCMG	log0130b
Session name:	ncmg0300.16d	log0130b
Receiver type:	TRIMBLE NETR9	JAVAD TRIUMPH2
Receiver number:	-Unknown-	00654
Receiver ID:	5329K443251	014Q4QK098U0Z0XUP4CA8AXRUS
Antenna type:	TRM57971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	5000115841	-Unknown-
Antenna ARP height, m:	0.000	0.025
Phase center variations:	On	On
Longitude:	W 81°39'24.022578"	W 81°32'03.726865"
Latitude:	N 35°42'27.100725"	N 35°27'28.661203"
Ellipsoid height, m:	343.4766	269.7252
X, m:	752407.8955	765720.8440
Y, m:	-5130405.8969	-5144666.0331
Z, m:	3702089.6708	3679526.2964

DX, m: 13312.9484
 DY, m: -14260.1362
 DZ, m: -22563.3743
 Baseline length, m: 29827.7043

SX, m: 8.416E-3
 SY, m: 1.484E-2
 SZ, m: 1.111E-2
 SL, m: 2.036E-2

Covariance matrix::	X	Y	Z
X	7.082E-5		
Y	-4.232E-5	2.201E-4	
Z	2.843E-5	-1.132E-4	1.235E-4

Ellipsoidal distance, m: 29826.2028
 Forward azimuth: 158°08'46.9146
 Back azimuth: 338°08'46.9146
 Elevation angle forward: 0°16'33.6360
 Elevation angle backward: 0°00'26.4195
 Height difference, m: -73.7514

Measurement used: 22624 of 22690 (0% discarded)
 RMS residual: 0.1167
 Fix ratio: 99.68%
 Contrast: 0.000E+0

Solution name: NCHI - log0130b.jps / Solution 1
 Processed at: 1/31/2016 1:30:29 PM
 Begin time: 30/01/2016 18:38:57.000
 End time: 30/01/2016 22:45:05.000

Time span, min: 246
Rec interval, sec: 30.000
Processing mode: Auto
Frequency: GPS L1 + L2, GLONASS L1 + L2
Used satellites: GPS(17)/GLONASS(12)
Solution type: Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	NCHI	log0130b
Session name:	nchi0300.16d	log0130b
Receiver type:	TRIMBLE NETR9	JAVAD TRIUMPH2
Receiver number:	-Unknown-	00654
Receiver ID:	5245K40272	014Q4QK098U0Z0XUP4CA8AXRUS
Antenna type:	TRM57971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	1441003132	-Unknown-
Antenna ARP height, m:	0.000	0.025
Phase center variations:	On	On
Longitude:	W 81°18'30.958466"	W 81°32'03.726463"
Latitude:	N 35°44'31.037125"	N 35°27'28.661030"
Ellipsoid height, m:	324.9546	269.7556
X, m:	783221.8479	765720.8581
Y, m:	-5123520.6469	-5144666.0592
Z, m:	3705180.0409	3679526.3097

DX, m: -17500.9898
DY, m: -21145.4123
DZ, m: -25653.7312
Baseline length, m: 37570.2945

SX, m: 1.033E-2
SY, m: 1.865E-2
SZ, m: 1.375E-2
SL, m: 2.537E-2

Covariance matrix::	X	Y	Z
X	1.068E-4		
Y	-6.402E-5	3.479E-4	
Z	4.195E-5	-1.751E-4	1.890E-4

Ellipsoidal distance, m: 37568.5535
Forward azimuth: -146°56'21.8890
Back azimuth: 33°03'38.1110
Elevation angle forward: 0°15'11.7683
Elevation angle backward: 0°05'05.6556
Height difference, m: -55.1990

Measurement used: 22624 of 22673 (0% discarded)
RMS residual: 0.1012
Fix ratio: 99.74%
Contrast: 0.000E+0

Solution name: GAST - log0130b.jps / Solution 1
Processed at: 1/31/2016 1:30:31 PM
Begin time: 30/01/2016 18:38:57.000

End time: 30/01/2016 22:45:05.000
 Time span, min: 246
 Rec interval, sec: 30.000
 Processing mode: Auto
 Frequency: GPS L1 + L2, GLONASS L1 + L2
 Used satellites: GPS(17)/GLONASS(13)
 Solution type: Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	GAST	log0130b
Session name:	gast0300.16d	log0130b
Receiver type:	TRIMBLE NETR5	JAVAD TRIUMPH2
Receiver number:	-Unknown-	00654
Receiver ID:	4850K59815	014Q4QK098U0Z0XUP4CA8AXRUS
Antenna type:	TRM57971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	31052454	-Unknown-
Antenna ARP height, m:	0.000	0.025
Phase center variations:	On	On
Longitude:	W 81°11'19.564349"	W 81°32'03.726276"
Latitude:	N 35°18'39.818304"	N 35°27'28.661127"
Ellipsoid height, m:	212.3454	269.7156
X, m:	798177.2353	765720.8577
Y, m:	-5149234.1891	-5144666.0245
Z, m:	3666204.8235	3679526.2889

DX, m: -32456.3776
 DY, m: 4568.1646
 DZ, m: 13321.4654
 Baseline length, m: 35380.0228

SX, m: 1.000E-2
 SY, m: 1.781E-2
 SZ, m: 1.273E-2
 SL, m: 2.407E-2

Covariance matrix::	X	Y	Z
X	1.000E-4		
Y	-6.494E-5	3.173E-4	
Z	3.836E-5	-1.532E-4	1.620E-4

Ellipsoidal distance, m: 35378.6849
 Forward azimuth: -62°28'08.2990
 Back azimuth: 117°31'51.7010
 Elevation angle forward: 0°03'57.5084
 Elevation angle backward: 0°15'06.4602
 Height difference, m: 57.3701

Measurement used: 20110 of 20156 (0% discarded)
 RMS residual: 0.1267
 Fix ratio: 99.54%
 Contrast: 0.000E+0