

DPOS REPORT  
JAVAD POST-PROCESSING SERVICE  
=====

USER:  
FILE: log0924a

DATE: 11.07.2016  
TIME: 15:14:24.697 GPS time

SOFTWARE: DPOS  
EPHEMERIS: brdc  
OBS USED: 47967 / 48165  
ANT NAME: JAVTRIUMPH\_2A NONE  
ANT HEIGHT: Vertical (ARP) - 0.000 meters

START: 2014/09/24 12:49:35.000 PM  
STOP: 2014/09/24 07:52:09.000 PM  
Geometry factor: 1.2  
FIXED AMB: Yes  
OVERALL RMS: 0.006 meters

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

IGS08 (EPOCH:2014.7301)

X:	1684627.686 (m)	0.004 (m)	1684626.823 (m)	0.004 (m)
Y:	-4263461.196 (m)	0.004 (m)	-4263459.774 (m)	0.004 (m)
Z:	4419713.724 (m)	0.004 (m)	4419713.738 (m)	0.004 (m)

LAT:	N 44 08 44.20977	0.003 (m)	N 44 08 44.24709	0.003 (m)
E LON:	E 291 33 37.92815	0.002 (m)	E 291 33 37.91556	0.002 (m)
W LON:	W 68 26 22.07185	0.002 (m)	W 68 26 22.08444	0.002 (m)
EL HGT:	-3.282 (m)	0.005 (m)	-4.448 (m)	0.005 (m)
ORTHO HGT:	21.175 (m)	0.005 (m)	[NAVD88 (Computed using GEOID12A)]	

UTM COORDINATES

STATE PLANE COORDINATES

	UTM (Zone 19)	SPC (WGS 84)
Northing (Y) [meters]	4888198.791	N 44°08'44.247093"
Easting (X) [meters]	544830.408	W 68°26'22.084441"

US NATIONAL GRID DESIGNATOR: NONE

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE (m)
NONE	BARH (CORS)	N 44 23 42.137 W	68 13 18.0793	32718.0
NONE	MECC (CORS)	N 44 49 33.210 W	68 44 38.6019	79381.3
NONE	MEWA (CORS)	N 44 27 15.192 W	69 05 49.4892	62688.7
NONE	PNB5 (CORS)	N 44 27 06.177 W	68 46 20.1619	43154.0
NONE	PNB6 (CORS)	N 44 27 07.247 W	68 46 19.9584	43177.2

RESIDUALS OF POSITION

VECTOR	dX	dY	dZ	dN	dE	dU
BARH - log0924a	-0.003	0.014	-0.011	0.002	0.003	-0.018
MECC - log0924a	0.002	0.000	-0.002	-0.002	0.002	0.000
MEWA - log0924a	0.013	-0.020	0.011	-0.008	0.005	0.024
PNB5 - log0924a	-0.007	-0.005	0.003	0.001	-0.008	0.003
PNB6 - log0924a	0.004	-0.008	0.009	0.000	0.001	0.012

Solution name: PNB6 - log0924a / Solution 1  
Processed at: 7/11/2016 3:14:09 PM  
Begin time: 24/09/2014 12:49:35.000  
End time: 24/09/2014 19:52:09.000  
Time span, min: 423  
Rec interval, sec: 30.000  
Processing mode: Auto  
Frequency: GPS L1 + L2  
Used satellites: GPS (21)  
Solution type: Fixed  
Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	PNB6	log0924a
Session name:	pnb62670.14d	log0924a
Receiver type:	TRIMBLE NETRS	JAVAD TRIUMPH2
Receiver number:	-Unknown-	-Unknown-
Receiver ID:	4752143405	03V44M5DVIVQ43OU3JZ3
Antenna type:	TRM41249USCG SCIT	JAVTRIUMPH_2A NONE
Serial number:	60052109	-Unknown-
Antenna ARP height, m:	0.000	0.000
Phase center variations:	On	On
Longitude:	W 68°46'19.971604"	W 68°26'22.084464"
Latitude:	N 44°27'07.284538"	N 44°08'44.247081"
Ellipsoid height, m:	32.3073	-4.4601
X, m:	1651238.4443	1684626.8195
Y, m:	-4251031.1136	-4263459.7667

Z, m: 4444106.7527 4419713.7295

DX, m: 33388.3752  
DY, m: -12428.6530  
DZ, m: -24393.0231  
Baseline length, m: 43177.2463

SX, m: 1.371E-2  
SY, m: 1.783E-2  
SZ, m: 1.835E-2  
SL, m: 2.903E-2

Covariance matrix::

	X	Y	Z
X	1.880E-4		
Y	-1.481E-4	3.178E-4	
Z	1.268E-4	-2.210E-4	3.367E-4

Ellipsoidal distance, m: 43177.2188  
Forward azimuth: 141°55'54.5792  
Back azimuth: 321°55'54.5792  
Elevation angle forward: 0°14'34.1542  
Elevation angle backward: 0°08'42.8807  
Height difference, m: -36.7674

Measurement used: 23392 of 23621 (1% discarded)  
RMS residual: 0.0021  
Fix ratio: 100.00%

Solution name: PNB5 - log0924a / Solution 1  
Processed at: 7/11/2016 3:14:11 PM  
Begin time: 24/09/2014 12:49:35.000  
End time: 24/09/2014 19:52:09.000  
Time span, min: 423  
Rec interval, sec: 30.000  
Processing mode: Auto  
Frequency: GPS L1 + L2  
Used satellites: GPS (21)  
Solution type: Fixed  
Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	PNB5	log0924a
Session name:	pnb52670.14d	log0924a
Receiver type:	TRIMBLE NETRS	JAVAD TRIUMPH2
Receiver number:	-Unknown-	-Unknown-
Receiver ID:	4724134664	03V44M5DVIVQ43OU3JZ3
Antenna type:	TRM41249USCG SCIT	JAVTRIUMPH 2A NONE
Serial number:	60073588	-Unknown-
Antenna ARP height, m:	0.000	0.000
Phase center variations:	On	On
Longitude:	W 68°46'20.175129"	W 68°26'22.084067"
Latitude:	N 44°27'06.214778"	N 44°08'44.247074"
Ellipsoid height, m:	32.7117	-4.4512
X, m:	1651242.7271	1684626.8301
Y, m:	-4251054.5675	-4263459.7695
Z, m:	4444083.4647	4419713.7356

DX, m: 33384.1030  
DY, m: -12405.2020  
DZ, m: -24369.7291  
Baseline length, m: 43154.0388

SX, m: 1.365E-2  
SY, m: 1.776E-2  
SZ, m: 1.843E-2  
SL, m: 2.901E-2

Covariance matrix::

	X	Y	Z
X	1.864E-4		
Y	-1.465E-4	3.154E-4	
Z	1.259E-4	-2.159E-4	3.395E-4

Ellipsoidal distance, m: 43154.0095  
Forward azimuth: 141°54'00.1563

Back azimuth: 321°54'00.1563  
Elevation angle forward: 0°14'35.7625  
Elevation angle backward: 0°08'40.5189  
Height difference, m: -37.1629  
  
Measurement used: 23400 of 23595 (1% discarded)  
RMS residual: 0.0021  
Fix ratio: 100.00%

Solution name: MEWA - log0924a / Solution 1  
Processed at: 7/11/2016 3:14:15 PM  
Begin time: 24/09/2014 12:49:35.000  
End time: 24/09/2014 19:52:09.000  
Time span, min: 423  
Rec interval, sec: 30.000  
Processing mode: Auto  
Frequency: GPS L1 + L2, GLONASS L1 + L2  
Used satellites: GPS (21) / GLONASS (17)  
Solution type: Fixed  
Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	MEWA	log0924a
Session name:	mewa2670.14d	log0924a
Receiver type:	TRIMBLE NETR5	JAVAD TRIUMPH2
Receiver number:	-Unknown-	-Unknown-
Receiver ID:	4734K10516	03V44M5DVIVQ43OU3JZ3
Antenna type:	TRM55971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	30514817	-Unknown-
Antenna ARP height, m:	0.000	0.000
Phase center variations:	On	On
Longitude:	W 69°05'49.502815"	W 68°26'22.084653"
Latitude:	N 44°27'15.230130"	N 44°08'44.247348"
Ellipsoid height, m:	49.5410	-4.4722
X, m:	1627051.5903	1684626.8103
Y, m:	-4260176.3656	-4263459.7548
Z, m:	4444293.8928	4419713.7271

DX, m: 57575.2201  
DY, m: -3283.3892  
DZ, m: -24580.1657  
Baseline length, m: 62688.6844

SX, m: 1.752E-2  
SY, m: 2.294E-2  
SZ, m: 2.413E-2  
SL, m: 3.762E-2

Covariance matrix::

	X	Y	Z
X	3.071E-4		
Y	-2.156E-4	5.262E-4	
Z	2.050E-4	-3.486E-4	5.822E-4

Ellipsoidal distance, m: 62688.6918  
Forward azimuth: 122°55'56.6890  
Back azimuth: 302°55'56.6890  
Elevation angle forward: 0°19'50.7531  
Elevation angle backward: 0°13'55.3363  
Height difference, m: -54.0132

Measurement used: 47888 of 48165 (1% discarded)  
RMS residual: 0.0039  
Fix ratio: 96.55%

Solution name: MECC - log0924a / Solution 1  
Processed at: 7/11/2016 3:14:20 PM  
Begin time: 24/09/2014 12:49:35.000  
End time: 24/09/2014 19:52:09.000  
Time span, min: 423  
Rec interval, sec: 30.000  
Processing mode: Auto  
Frequency: GPS L1 + L2, GLONASS L1 + L2  
Used satellites: GPS (21) / GLONASS (17)

Solution type: Fixed  
Used observations: CP, L1, L2, C1, P1, P2

	Begin point	End point
Point name:	MECC	log0924a
Session name:	mecc2670.14d	log0924a
Receiver type:	TRIMBLE NETR5	JAVAD TRIUMPH2
Receiver number:	-Unknown-	-Unknown-
Receiver ID:	4735K10568	03V44M5DVIVQ43OU3JZ3
Antenna type:	TRM55971.00 NONE	JAVTRIUMPH_2A NONE
Serial number:	30518802	-Unknown-
Antenna ARP height, m:	0.000	0.000
Phase center variations:	On	On
Longitude:	W 68°44'38.615337"	W 68°26'22.084523"
Latitude:	N 44°49'33.247670"	N 44°08'44.247150"
Ellipsoid height, m:	19.4437	-4.4474
X, m:	1642740.4913	1684626.8211
Y, m:	-4223003.9926	-4263459.7742
Z, m:	4473660.5968	4419713.7399

DX, m: 41886.3298  
DY, m: -40455.7816  
DZ, m: -53946.8569  
Baseline length, m: 79381.3470

SX, m: 1.912E-2  
SY, m: 2.656E-2  
SZ, m: 2.685E-2  
SL, m: 4.233E-2

Covariance matrix::	X	Y	Z
X	3.654E-4		
Y	-2.872E-4	7.055E-4	
Z	2.356E-4	-4.638E-4	7.211E-4

Ellipsoidal distance, m: 79381.7638  
Forward azimuth: 162°07'15.5576  
Back azimuth: 342°07'15.5576  
Elevation angle forward: 0°22'27.4971  
Elevation angle backward: 0°20'23.3937  
Height difference, m: -23.8912

Measurement used: 47967 of 48132 (0% discarded)  
RMS residual: 0.0050  
Fix ratio: 99.61%

Solution name: BARH - log0924a / Solution 1  
Processed at: 7/11/2016 3:14:23 PM  
Begin time: 24/09/2014 12:49:35.000  
End time: 24/09/2014 19:52:09.000  
Time span, min: 423  
Rec interval, sec: 30.000  
Processing mode: Auto  
Frequency: GPS L1 + L2, GLONASS L1 + L2  
Used satellites: GPS (21) / GLONASS (17)  
Solution type: Fixed  
Used observations: CP, L2, C1, P2

	Begin point	End point
Point name:	BARH	log0924a
Session name:	barh2670.14d	log0924a
Receiver type:	LEICA GRX1200GGPRO	JAVAD TRIUMPH2
Receiver number:	-Unknown-	-Unknown-
Receiver ID:	351252	03V44M5DVIVQ43OU3JZ3
Antenna type:	LEIAX1202GG NONE	JAVTRIUMPH_2A NONE
Serial number:	06320009	-Unknown-
Antenna ARP height, m:	0.000	0.000
Phase center variations:	On	On
Longitude:	W 68°13'18.091793"	W 68°26'22.084555"
Latitude:	N 44°23'42.174889"	N 44°08'44.247018"
Ellipsoid height, m:	6.7538	-4.4298
X, m:	1693644.6913	1684626.8261

Y, m:	-4239067.5846	-4263459.7889
Z, m:	4439567.2886	4419713.7492

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DX, m:	-9017.8652
DY, m:	-24392.2043
DZ, m:	-19853.5394
Baseline length, m:	32717.9545

SX, m:	1.036E-2
SY, m:	1.384E-2
SZ, m:	1.399E-2
SL, m:	2.224E-2

Covariance matrix::	X	Y	Z
X	1.073E-4		
Y	-8.686E-5	1.914E-4	
Z	7.286E-5	-1.299E-4	1.958E-4

Ellipsoidal distance, m:	32717.9826
Forward azimuth:	-147°49'17.5922
Back azimuth:	32°10'42.4078
Elevation angle forward:	0°09'59.9858
Elevation angle backward:	0°07'38.9838
Height difference, m:	-11.1836

Measurement used:	30711 of 30831 (0% discarded)
RMS residual:	0.0031
Fix ratio:	100.00%

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