



Results - Baseline STAM - 1002

Project Information

Project name: skupina_1-TRG
Date created: 06/02/2011 19:40:33
Time zone: 2h 00'
Coordinate system name: WGS 1984
Application software: LEICA Geo Office 7.0
Processing kernel: PSI-Pro 2.0
Processed: 06/02/2011 19:57:31

Point Information

	Reference: STAM	Rover: 1002
Receiver type / S/N:	TPSGB1000 / 8QQPTNJZH1C	TPSHIPER / 8QG4AWP4FEO
Antenna type / S/N:	TPSCR3_GGD CONE (2) / -	TPSPG_A1+GP NONE / -
Antenna height:	0.0000 m	1.3400 m
Initial coordinates:		
Latitude:	50°09' 44.39907" N	50°08' 41.05587" N
Longitude:	16°56' 51.94054" E	16°58' 30.52718" E
Ellip. Hgt:	603.5355 m	746.0236 m
Time span:	05/30/2011 12:56:35 - 05/30/2011 13:21:35	
Duration:	25' 00"	

Processing Parameters

Parameters	Selected	Used	Comment
Cut-off angle:	15°	15°	
Ephemeris type (GPS):	Broadcast	Broadcast	
Ephemeris type (GLONASS):	Broadcast	Broadcast	No Glonass orbits available.
Solution type:	Automatic	Phase: all fix	
GNSS type:	Automatic	GPS	
Frequency:	Automatic	Automatic	
Fix ambiguities up to:	80 km	80 km	
Min. duration for float solution (static):	5' 00"	5' 00"	
Sampling rate:	Use all	5	
Tropospheric model:	Hopfield	Hopfield	
Ionospheric model:	Automatic	Computed	
Use stochastic modelling:	Yes	Yes	
Min. distance:	8 km	8 km	
Ionospheric activity:	Automatic	Automatic	

Satellite Selection

Manually disabled GPS satellites (PRNs): None
Manually disabled GLONASS satellites (Slot Id): None

Computed Iono Model

Number of computed models: 1
Sampling rate of iono model: 30 sec
Height of single layer: 350 km

Model 1:

Origin of development: Latitude: 50°09' 44.39907" N
Longitude: 16°56' 51.94054" E
Time (UT): 05/30/2011 06:43:00

Validity: From epoch: 05/30/2011 08:43:00
To epoch: 05/30/2011 14:52:35

Coefficients:	Deg. Lat	Deg. time	Value	rms
0	0	0	1.04287828	0.00435099
0	1	1	0.28194565	0.00319249
0	2	2	-0.05434994	0.00087539
1	0	0	0.02747618	0.00267221
1	1	1	-0.08606848	0.00139673

Antenna Information

	Reference: STAM	Rover: 1002
Antenna type:	TPSCR3_GGD CONE (2)	TPSPG_A1+GP NONE

Horizontal offset: 0.0000 m 0.0000 m
Vertical offset: 0.0000 m 0.0000 m
Additional corrections: Elevation and azimuth Elevation and azimuth

Phase center offsets
Vertical: L1 (Reference) L2 (Reference) L1 (Rover) L2 (Rover)
East: 0.0615 m 0.0948 m 0.0348 m 0.0400 m
North: -0.0004 m 0.0000 m 0.0000 m -0.0003 m
0.0008 m 0.0003 m -0.0001 m 0.0000 m

Additional corrections (Reference):

A \ Z	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85	°	90°
0° L1	0.0	1.0	1.0	0.4	-0.7	-2.1	-3.5	-4.7	-5.5	-5.9	-5.7	-5.1	-3.9	-2.1	0.1	3.0	6.4	0.0	0.0	0.0
0° L2	0.0	-0.9	-1.5	-1.8	-1.9	-2.1	-2.3	-2.5	-2.9	-3.1	-3.4	-3.2	-2.9	-2.3	-1.2	0.2	2.4	0.0	0.0	0.0

Additional corrections (Rover):

A \ Z	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85	°	90°
0° L1	0.0	-0.1	-0.4	-0.9	-1.4	-1.8	-2.1	-2.1	-2.0	-1.9	-2.0	-2.2	-2.6	-2.7	-2.3	-0.9	1.2	3.6	5.3	
0° L2	0.0	-0.1	-0.3	-0.5	-0.7	-0.9	-1.2	-1.4	-1.6	-1.5	-1.0	-0.3	0.6	1.1	0.9	0.0	-1.0	-1.1	1.2	
10° L1	0.0	-0.1	-0.4	-0.9	-1.4	-1.8	-2.0	-2.0	-1.9	-1.8	-1.8	-2.1	-2.4	-2.4	-1.9	-0.6	1.5	3.8	5.3	
10° L2	0.0	-0.1	-0.3	-0.5	-0.7	-1.0	-1.2	-1.5	-1.6	-1.5	-1.0	-0.3	0.6	1.1	0.8	-0.1	-1.2	-1.2	1.2	
20° L1	0.0	-0.1	-0.4	-0.8	-1.3	-1.7	-1.9	-1.9	-1.8	-1.7	-1.7	-1.9	-2.1	-2.1	-1.5	0.0	2.1	4.3	5.6	
20° L2	0.0	-0.1	-0.3	-0.5	-0.7	-1.0	-1.2	-1.5	-1.6	-1.5	-1.0	-0.2	0.7	1.1	0.8	-0.2	-1.4	-1.4	1.1	
30° L1	0.0	-0.1	-0.4	-0.8	-1.2	-1.6	-1.8	-1.8	-1.7	-1.6	-1.6	-1.8	-2.0	-1.9	-1.1	0.5	2.8	5.0	6.1	
30° L2	0.0	-0.1	-0.2	-0.5	-0.7	-1.0	-1.3	-1.5	-1.6	-1.5	-0.9	0.0	0.9	1.4	1.0	-0.1	-1.4	-1.5	1.0	
40° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.5	-1.7	-1.7	-1.6	-1.5	-1.6	-1.8	-2.0	-1.9	-1.0	0.8	3.3	5.6	6.7	
40° L2	0.0	-0.1	-0.2	-0.5	-0.7	-1.0	-1.3	-1.6	-1.7	-1.5	-0.8	0.2	1.2	1.7	1.4	0.2	-1.1	-1.3	1.1	
50° L1	0.0	-0.1	-0.3	-0.7	-1.0	-1.4	-1.5	-1.6	-1.5	-1.4	-1.5	-1.8	-2.1	-2.0	-1.1	0.7	3.3	5.8	7.0	
50° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.1	-1.4	-1.7	-1.8	-1.5	-0.8	0.3	1.5	2.1	1.8	0.7	-0.5	-0.7	1.6	
60° L1	0.0	-0.1	-0.3	-0.6	-1.0	-1.3	-1.4	-1.5	-1.4	-1.3	-1.5	-1.8	-2.2	-2.2	-1.4	0.3	2.9	5.5	7.0	
60° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.1	-1.5	-1.8	-2.0	-1.7	-0.9	0.4	1.6	2.3	2.2	1.2	0.1	0.1	2.3	
70° L1	0.0	-0.1	-0.3	-0.6	-0.9	-1.2	-1.4	-1.4	-1.3	-1.3	-1.4	-1.8	-2.3	-2.4	-1.8	-0.2	2.2	4.8	6.5	
70° L2	0.0	0.0	-0.2	-0.4	-0.7	-1.1	-1.6	-2.0	-2.1	-1.8	-1.0	0.2	1.5	2.3	2.3	1.5	0.6	0.7	3.0	
80° L1	0.0	-0.1	-0.3	-0.6	-0.9	-1.2	-1.3	-1.3	-1.3	-1.2	-1.4	-1.8	-2.3	-2.5	-2.1	-0.7	1.6	4.0	5.6	
80° L2	0.0	0.0	-0.2	-0.4	-0.7	-1.1	-1.6	-2.0	-2.2	-2.0	-1.2	0.0	1.2	2.1	2.2	1.6	0.8	1.1	3.6	
90° L1	0.0	-0.1	-0.3	-0.5	-0.9	-1.2	-1.3	-1.3	-1.3	-1.2	-1.4	-1.8	-2.3	-2.6	-2.2	-0.9	1.1	3.2	4.7	
90° L2	0.0	0.0	-0.1	-0.3	-0.7	-1.1	-1.6	-2.0	-2.2	-2.1	-1.4	-0.3	0.9	1.7	1.9	1.3	0.7	1.1	3.8	
100° L1	0.0	-0.1	-0.3	-0.6	-0.9	-1.2	-1.4	-1.4	-1.3	-1.3	-1.4	-1.8	-2.3	-2.5	-2.2	-1.0	0.9	2.8	4.0	
100° L2	0.0	0.0	-0.1	-0.3	-0.6	-1.0	-1.5	-2.0	-2.2	-2.1	-1.5	-0.5	0.6	1.4	1.5	0.9	0.3	0.7	3.5	
110° L1	0.0	-0.1	-0.3	-0.6	-0.9	-1.3	-1.5	-1.5	-1.4	-1.4	-1.5	-1.9	-2.3	-2.5	-2.1	-0.9	0.9	2.7	3.6	
110° L2	0.0	0.0	-0.1	-0.3	-0.6	-0.9	-1.4	-1.9	-2.1	-2.1	-1.5	-0.6	0.5	1.2	1.3	0.6	-0.2	0.2	3.0	
120° L1	0.0	-0.1	-0.3	-0.6	-1.0	-1.4	-1.6	-1.6	-1.5	-1.5	-1.6	-1.9	-2.4	-2.6	-2.1	-0.9	1.0	2.8	3.6	
120° L2	0.0	0.0	-0.1	-0.3	-0.5	-0.9	-1.3	-1.8	-2.0	-2.0	-1.5	-0.5	0.5	1.2	1.2	0.4	-0.5	-0.4	2.4	
130° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.4	-1.7	-1.7	-1.6	-1.6	-1.7	-2.0	-2.5	-2.7	-2.2	-1.0	2.9	3.8	4.3	
130° L2	0.0	0.0	-0.1	-0.2	-0.5	-0.8	-1.2	-1.7	-2.0	-1.9	-1.4	-0.5	0.6	1.3	1.2	0.4	-0.7	-0.7	2.0	
140° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.5	-1.7	-1.8	-1.7	-1.6	-1.7	-2.1	-2.5	-2.8	-2.4	-1.1	0.8	2.9	4.0	
140° L2	0.0	0.0	-0.1	-0.2	-0.5	-0.8	-1.2	-1.6	-1.9	-1.8	-1.3	-0.4	0.7	1.4	1.3	0.4	-0.8	-0.9	1.6	
150° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.5	-1.7	-1.7	-1.6	-1.7	-1.6	-1.7	-2.1	-2.6	-2.8	-2.5	-1.3	0.7	2.8	
150° L2	0.0	0.0	-0.1	-0.2	-0.5	-0.8	-1.2	-1.6	-1.8	-1.8	-1.3	-0.3	0.7	1.4	1.3	0.4	-0.8	-0.9	1.5	
160° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.5	-1.7	-1.7	-1.6	-1.5	-1.6	-2.0	-2.5	-2.8	-2.5	-1.4	0.6	2.7	4.0	
160° L2	0.0	0.0	-0.1	-0.2	-0.5	-0.8	-1.2	-1.6	-1.8	-1.8	-1.3	-0.4	0.7	1.3	1.2	0.3	-0.8	-0.9	1.4	
170° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.4	-1.6	-1.5	-1.4	-1.4	-1.5	-1.9	-2.4	-2.7	-2.4	-1.3	0.5	2.6	3.9	
170° L2	0.0	0.0	-0.1	-0.3	-0.5	-0.8	-1.2	-1.6	-1.8	-1.8	-1.3	-0.4	0.6	1.2	1.1	0.2	-0.8	-0.8	1.5	
180° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.3	-1.5	-1.4	-1.3	-1.2	-1.4	-1.7	-2.2	-2.5	-2.3	-1.2	0.6	2.6	3.9	
180° L2	0.0	0.0	-0.1	-0.3	-0.5	-0.8	-1.2	-1.6	-1.9	-1.8	-1.3	-0.5	0.5	1.1	1.0	0.1	-0.8	-0.7	1.7	
190° L1	0.0	-0.1	-0.3	-0.7	-1.0	-1.3	-1.4	-1.3	-1.2	-1.1	-1.2	-1.6	-2.0	-2.3	-2.1	-1.0	0.8	2.8	4.1	
190° L2	0.0	0.0	-0.1	-0.3	-0.5	-0.8	-1.2	-1.6	-1.9	-1.9	-1.4	-0.5	0.5	1.1	1.0	0.2	-0.7	-0.5	2.0	
200° L1	0.0	-0.1	-0.3	-0.7	-1.0	-1.2	-1.3	-1.3	-1.1	-1.0	-1.1	-1.4	-1.9	-2.2	-1.9	-0.8	1.0	3.0	4.4	
200° L2	0.0	0.0	-0.1	-0.3	-0.6	-0.9	-1.3	-1.7	-2.0	-1.9	-1.4	-0.5	0.6	1.3	1.2	0.4	-0.5	-0.2	2.4	
210° L1	0.0	-0.1	-0.3	-0.7	-1.0	-1.2	-1.3	-1.3	-1.1	-1.0	-1.0	-1.4	-1.8	-2.0	-1.7	-0.6	1.3	3.4	4.7	
210° L2	0.0	0.0	-0.2	-0.3	-0.6	-0.9	-1.3	-1.7	-2.0	-1.9	-1.4	-0.4	0.7	1.4	1.4	0.6	-0.2	0.1	2.7	
220° L1	0.0	-0.1	-0.3	-0.7	-1.0	-1.3	-1.4	-1.3	-1.1	-1.0	-1.0	-1.3	-1.7	-1.9	-1.6	-0.4	1.6	3.8	5.1	
220° L2	0.0	0.0	-0.2	-0.4	-0.6	-1.0	-1.3	-1.7	-2.0	-1.9	-1.3	-0.3	0.8	1.6	1.6	0.8	-0.1	0.2	2.8	
230° L1	0.0	-0.1	-0.3	-0.7	-1.0	-1.3	-1.4	-1.4	-1.2	-1.1	-1.1	-1.4	-1.8	-1.9	-1.5	-0.1	2.0	4.2	5.4	
230° L2	0.0	0.0	-0.2	-0.4	-0.7	-1.0	-1.4	-1.7	-1.9	-1.8	-1.2	-0.2	1.0	1.7	1.7	0.9	-0.1	0.1	2.6	
240° L1	0.0	-0.1	-0.3	-0.7	-1.1	-1.4	-1.5	-1.5	-1.3	-1.2	-1.2	-1.5	-1.9	-2.0	-1.4	0.1	2.3	4.5	5.5	
240° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.0	-1.4	-1.7	-1.9	-1.7	-1.0	0.1	1.2	1.9	1.7	0.8	-0.2	-0.2	2.1	
250° L1	0.0	-0.1	-0.4	-0.7	-1.1	-1.4	-1.6	-1.6	-1.4	-1.3	-1.4	-1.7	-2.0	-2.0	-1.3	0.3	2.5	4.7	5.6	
250° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.1	-1.4	-1.7	-1.8	-1.5	-0.7	0.3	1.4	2.0	1.7	0.7	-0.5	-0.7	1.5	
260° L1	0.0	-0.1	-0.4	-0.7	-1.2	-1.5	-1.7	-1.7	-1.6	-1.5	-1.6	-1.9	-2.2	-2.1	-1.4	0.3	2.6	4.6	5.4	
260° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.1	-1.4	-1.7	-1.7	-1.3	-0.5	0.6	1.6	2.1	1.7	0.5	-0.9	-1.2	0.9	
270° L1	0.0	-0.1	-0.4	-0.8	-1.2	-1.6	-1.9	-1.9	-1.8	-1.8	-1.8	-2.1	-2.3	-2.2	-1.4	0.2	2.4	4.4	5.2	
270° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.1	-1.4	-1.6	-1.6	-1.2	-0.3	0.8	1.7	2.1	1.6	0.2	-1.2	-1.6	0.4	
280° L1	0.0	-0.1	-0.4	-0.8	-1.3	-1.7	-2.0	-2.1	-2.0	-2.0	-2.0	-2.2	-2.4	-2.3	-1.5	0.1	2.3	4.2	4.9	
280° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.0	-1.3	-1.5	-1.5	-1.1	-0.2	0.8	1.7	2.0	1.4	0.0	-1.5	-1.9	0.1	
290° L1	0.0	-0.1	-0.4	-0.9	-1.4	-1.9	-2.2	-2.3	-2.2	-2.1	-2.2	-2.3	-2.5	-2.4	-1.5	0.0	2.1	4.0	4.7	
290° L2	0.0	-0.1	-0.2	-0.4	-0.7	-1.0	-1.3	-1.5	-1.4	-1.0	-0.2	0.8	1.6	1.9	1.3	-0.2	-1.7	-2.1	-0.1	
300° L1	0.0	-0.1	-0.4	-0.9	-1.4	-1.9	-2.3	-2.4	-2.3	-2.2	-2.3	-2.4	-2.6	-2.4	-1.6	0.0	2.1	3.9	4.6	
300° L2	0.0	-0.1	-0.2	-0.4	-0.6	-0.9	-1.2	-1.4	-1.3	-1.0	-0.3	0.7	1.5	1.7	1.1	-0.3	-1.8	-2.2	-0.2	
310° L1	0.0	-0.1	-0.5	-0.9	-1.5	-2.0	-2.3	-2.4	-2.4	-2.3	-2.3	-2.5	-2.7	-2.5	-1.7	-0.1	2.1	4.0	4.7	
310° L2	0.0	-0.1	-0.2	-0.4	-0.6	-0.9	-1.1	-1.3	-1.3	-1.0	-0.4	0.5	1.3	1.5	1.0	-0.3	-1.7	-2.1	-0.2	
320° L1	0.0	-0.1	-0.5	-0.9	-1.5	-2.0	-2.3	-2.4	-2.4	-2.3	-2.3	-2.5	-2.8	-2.6	-1.9	-0.2				

Number of rejected observations (L2):

0

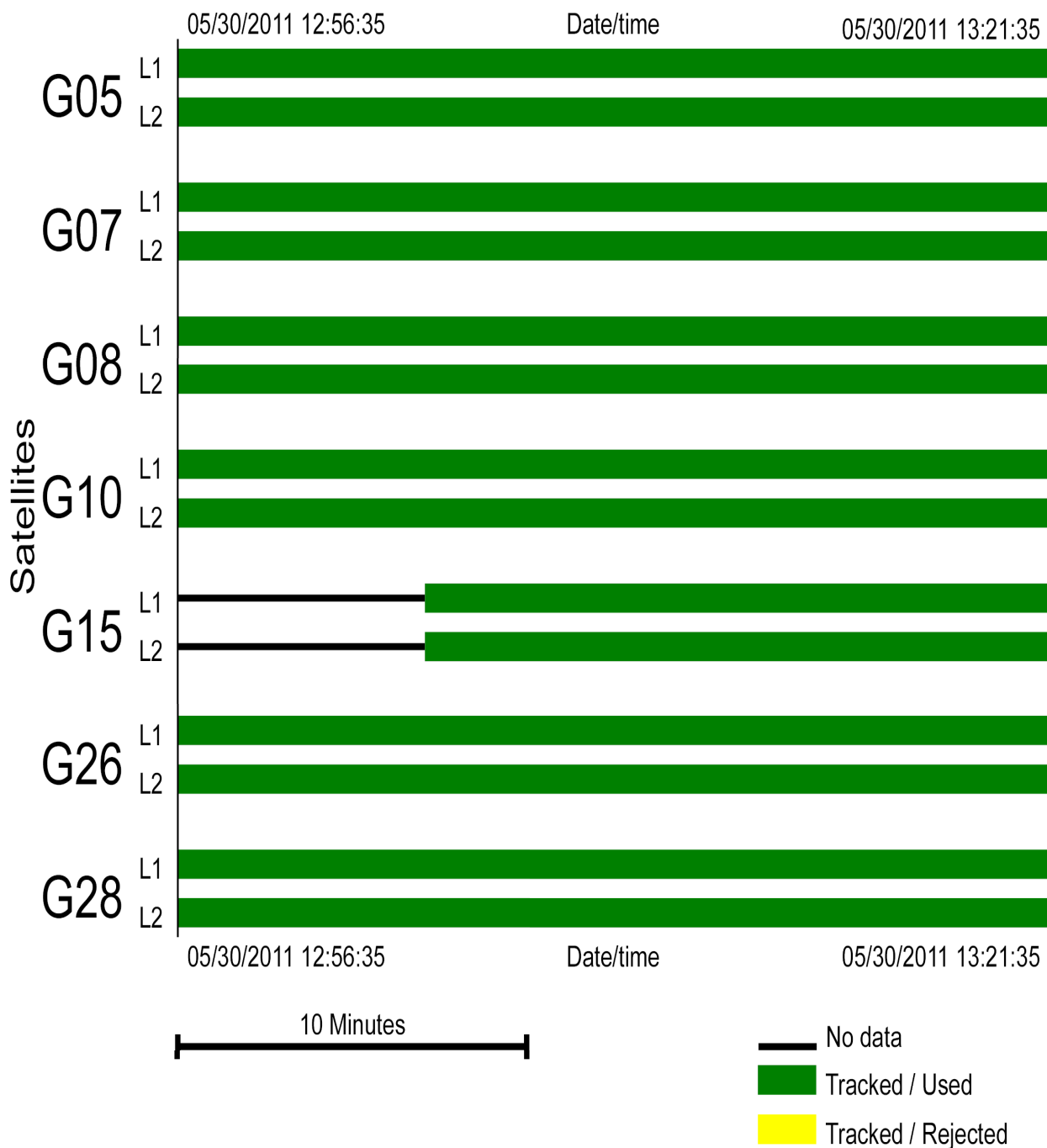
Tracking Status L1:

Satellite		From	To	Status
G05	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G07	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G08	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G10	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G15	✗	05/30/2011 12:56:35	05/30/2011 13:03:40	No data
	✓	05/30/2011 13:03:40	05/30/2011 13:21:35	Tracked / Used
G26	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G28	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used

Tracking Status L2:

Satellite		From	To	Status
G05	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G07	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G08	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G10	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G15	✗	05/30/2011 12:56:35	05/30/2011 13:03:40	No data
	✓	05/30/2011 13:03:40	05/30/2011 13:21:35	Tracked / Used
G26	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used
G28	✓	05/30/2011 12:56:35	05/30/2011 13:21:35	Tracked / Used

Tracking Summary:



Ambiguity Statistics

Total number of GPS ambiguities:	14
Number of fixed GPS ambiguities:	14
Total number of GLONASS ambiguities:	0
Number of fixed GLONASS ambiguities:	0
Number of independent fixes:	149
Avg. time between independent fixes:	10"

Percentage of fixed epochs (L1):	100%
Percentage of fixed epochs (L2):	100%
Percentage of fixed epochs (overall):	100%

Overall Statistic:

Status	From	To	Duration
Fixed	05/30/2011 12:56:35	05/30/2011 13:21:35	25' 00"

Cycle Slip Statistics

Total number of cycle slips: 0

Final Coordinates

	Reference:STAM	Rover:1002	
Coordinates:			
Latitude:	50°09' 44.39907" N	50°08' 41.01611" N	
Longitude:	16°56' 51.94054" E	16°58' 30.48866" E	
Ellip. Hgt:	603.5355 m	746.1496 m	
Solution type:	Phase: all fix		
GNSS type:	GPS		
Frequency:	L1 and L2		
Ambiguity:	Yes		
Quality:	Sd. Lat: 0.0002 m Posn. Qlty: 0.0002 m	Sd. Lon: 0.0001 m Sd. Slope: 0.0002 m	Sd. Hgt: 0.0005 m
M0:	0.3531 m		
Cofactor matrix Qxx:	0.00000022	-0.00000001 0.00000017	-0.00000012 0.00000004 0.00000171
Baseline vector:	dLat: -0°01' 03.38296" Slope: 2772.1240 m	dLon: 0°01' 38.54812"	dHgt: 142.6140 m
DOPs (min-max):	GDOP: 2.3 - 4.4 PDOP: 2.0 - 3.6	HDOP: 1.1 - 1.5	VDOP: 1.7 - 3.3
Number of used satellites:	GPS: 7 GLONASS: -		

Processing Errors and Warnings

Warning Orbit: No Glonass orbits available.