

General Information

Mission Information

Project name	13284-1909_20190312a
Processing date	2019-03-13 20:20:34
Mission date	2019-03-12 11:50:29
Mission duration	04:24:22.000
Processing mode	IN-Fusion SmartBase
GPS Station	ASB

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N9865
IMU type	57
Receiver type	BD982
Antenna type	AV37

Project File List

Rover Data Files

File name	File type
190312_115010_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0710.19g	GLONASS Broadcast Ephemeris
Ephm0710.19n	GPS Broadcast Ephemeris
KYGB071A.19g	GLONASS Broadcast Ephemeris
WVLA071A.19g	GLONASS Broadcast Ephemeris
WVLA071A.19n	GPS Broadcast Ephemeris
WVLA071A.19o	GNSS SingleBase
WVOH071A.19o	GNSS SingleBase
WVRH071A.19o	GNSS SingleBase
WVSA071A.19o	GNSS SingleBase
WVHU071A.19o	GNSS SingleBase
KYGB071A.19o	GNSS SingleBase
KYPA071A.19o	GNSS SingleBase
KYTL071A.19o	GNSS SingleBase
WVCH071A.19o	GNSS SingleBase
WVCL071A.19o	GNSS SingleBase
WVSW071A.19o	GNSS SingleBase
igu20441_00.sp3	GPS Precise Ephemeris
igu20441_06.sp3	GPS Precise Ephemeris
igu20441_12.sp3	GPS Precise Ephemeris
igu20441_18.sp3	GPS Precise Ephemeris
igu20442_00.sp3	GPS Precise Ephemeris
igu20442_06.sp3	GPS Precise Ephemeris
igu20442_12.sp3	GPS Precise Ephemeris
igu20442_18.sp3	GPS Precise Ephemeris
igu20443_00.sp3	GPS Precise Ephemeris
igu20443_06.sp3	GPS Precise Ephemeris
var1071k.19o	GNSS SingleBase
var1071l.19o	GNSS SingleBase
var1071m.19o	GNSS SingleBase
var1071n.19o	GNSS SingleBase
var1071o.19o	GNSS SingleBase
var1071p.19o	GNSS SingleBase
wvbf071k.19o	GNSS SingleBase
wvbf071l.19o	GNSS SingleBase
wvbf071m.19o	GNSS SingleBase
wvbf071n.19o	GNSS SingleBase
wvbf071o.19o	GNSS SingleBase
wvbf071p.19o	GNSS SingleBase

Output Files

Filename	File type
sbet_20190312a.out	SBET Trajectory File

Rover Data Summary

First raw data file	190312_115010_INS-GPS_1.raw		
Last raw data file	190312_115010_INS-GPS_1.raw		
Start GPS week	2044		
Start time	215410.252 (3/12/2019 11:50:10 AM)		
End time	231273.124 (3/12/2019 4:14:33 PM)		
Start of fine alignment	215883.971 (3/12/2019 11:58:03 AM)		
Available subsystems	Primary GNSS, Gimbal, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
Gimbal to IMU lever arm [m]	0.000	0.000	0.000
Gimbal to IMU mounting angles [deg]	0.000	0.000	0.000
Gimbal to Primary GNSS lever arm [m]	0.000	0.000	0.000
Gimbal to Primary GNSS lever arm std dev [m]	-1.000		
Aircraft to Reference mounting angles [deg]	0.000	0.000	0.000

Raw Data QC

Raw IMU Import QC Summary

IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_20190312a.log
IMU Records Processed	3171886
Termination Status	Warnings
IMU Anomalies	1
IMU Failure Messages	
223505.229 : WARNING : Gap of 0.0100 seconds in CHECKDT input data	

SmartBase Processing Summary

Smart Select Options

Archive enabled	False
User database enabled	False
Include high-rate data sites	False
Target GNSS Selection	GNSS

Basestation Selection

Date	ID	Dist	Data Type	Rate	Service	Database	Status
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SmartBase Results

SmartBase status	
Primary station Id	
Primary station data rate [sec]	0.0
VRS/ASB generation rate [sec]	0.0
VRS/ASB timespan	
Number of reference stations	0
Primary station GPS measurement usage [%]	0.0
Average number of satellites per epoch	0.0
Max number of GPS stations used	0
Min number of GPS stations used	0
Total full data gap [sec]	0
Total individual satellite data gap [sec]	0
GPS precise vs. broadcast ephemeris used	0.0 % / 0.0 %
Termination Status	

SmartBase Quality Check

GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length [km]	10.28	73.31	
Number of GPS SV	7	11	10
Number of GLONASS SV	0	8	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Total number of SV	10	18	15
PDOP	1.16	1.95	1.44
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	15813.00	0.00	2.00
Percentage	99.99	0.00	0.01

GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion SmartBase		
Stabilized mount	True		
Base station	ASB		
Processing start time	215411.000 (3/12/2019 11:50:11 AM)		
Processing end time	231273.000 (3/12/2019 4:14:33 PM)		
Initial attitude source	Real-Time VNAV/RNAV Attitude		
IMU Sensor Context	Processing with Onboard IMU		
Gimbal to IMU lever arm [m]	0.000	0.000	0.000
Gimbal to IMU mounting angles [deg]	0.000	0.000	0.000
Gimbal to Primary GNSS lever arm [m]	-0.016	0.008	-0.680
Gimbal to Primary GNSS lever arm std dev [m]	0.030	0.030	0.030
Aircraft to Reference mounting angles [deg]	0.000	0.000	0.000