General Information

Mission Information

Project name	13284-1909_20190327
Processing date	2019-03-29 14:58:10
Mission date	2019-03-27 14:02:06
Mission duration	03:55:28.971
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
190327_140153_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0860.19g	GLONASS Broadcast Ephemeris
Ephm0860.19n	GPS Broadcast Ephemeris
KYPA086A.19g	GLONASS Broadcast Ephemeris
WVSA086A.19n	GPS Broadcast Ephemeris
WVSA086A.19g	GLONASS Broadcast Ephemeris
WVOH086A.19o	GNSS SingleBase
WVOH086A.19n	GPS Broadcast Ephemeris
WVOH086A.19g	GLONASS Broadcast Ephemeris
WVLE086A.19o	GNSS SingleBase
WVLE086A.19n	GPS Broadcast Ephemeris
WVLE086A.19g	GLONASS Broadcast Ephemeris
WVLA086A.19o	GNSS SingleBase
WVLA086A.19n	GPS Broadcast Ephemeris
WVLA086A.19g	GLONASS Broadcast Ephemeris
WVCH086A.19o	GNSS SingleBase
WVCH086A.19n	GPS Broadcast Ephemeris
WVCH086A.19g	GLONASS Broadcast Ephemeris
WVAT086A.19o	GNSS SingleBase
WVAT086A.19n	GPS Broadcast Ephemeris
WVAT086A.19g	GLONASS Broadcast Ephemeris
KYTL086A.19o	GNSS SingleBase
KYTL086A.19n	GPS Broadcast Ephemeris
KYTL086A.19g	GLONASS Broadcast Ephemeris
KYPA086A.19o	GNSS SingleBase
KYPA086A.19n	GPS Broadcast Ephemeris
WVSA086A.19o	GNSS SingleBase
vawy086n.19o	GNSS SingleBase
wvbf086r.19o	GNSS SingleBase
wvbf086q.19o	GNSS SingleBase
vaab086n.19o	GNSS SingleBase
vaab086p.19o	GNSS SingleBase
vaab086q.19o	GNSS SingleBase
vaab086r.19o	GNSS SingleBase
vaab086o.19o	GNSS SingleBase
wvbf086p.19o	GNSS SingleBase
wvbf086n.19o	GNSS SingleBase
vawy086o.19o	GNSS SingleBase
vawy086p.19o	GNSS SingleBase
vawy086q.19o	GNSS SingleBase
vawy086r.19o	GNSS SingleBase
loyu086n.19o	GNSS SingleBase
loyu086o.19o	GNSS SingleBase
wvbf086o.19o	GNSS SingleBase
loyu086p.19o	GNSS SingleBase
loyu086r.19o	GNSS SingleBase
loyu086q.19o	GNSS SingleBase
igr20462.sp3	GPS Precise Ephemeris
igr20463.sp3	GPS Precise Ephemeris
igu20464_00.sp3	GPS Precise Ephemeris
igu20464_06.sp3	GPS Precise Ephemeris
igu20464_12.sp3	GPS Precise Ephemeris
igu20464_18.sp3	GPS Precise Ephemeris

Output Files

Filename	File type
sbet_20190327.out	SBET Trajectory File

Rover Data Summary

First raw data file	190327_140153_INS-GPS_1.raw		
Last raw data file	190327_140153_INS-GPS_1.raw		
Start GPS week	2046		
Start time	309708.029 (3/27/2019 2:01:48 PM)		
End time	323836.457 (3/27/2019 5:57:16 PM)		
Start of fine alignment	310030.014 (3/27/2019 2:07:10 PM)		
Available subsystems	Primary GNSS, Gimbal, IMU		
POS Event Input	Event 1 Input, Event 2 Input, Event 3 Input, Event 4 Input, Event 5 Input, Event 6 Input		
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_20190327.log
IMU Records Processed	2825161
Termination Status	Normal
IMU Anomalies	0

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	DataType	Rate	Service	Database	Status

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]	9.30	94.15	
Number of GPS SV	7	10	9
Number of GLONASS SV	0	6	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Total number of SV	8	16	13
PDOP	1.30	2.29	1.58
QC Solution Gaps	1.00	1.00	
Solution Type	**Fixed**	**Float**	**No solution**
Epoch (s)	14106.00	0.00	20.00
Percentage	99.86	0.00	0.14

GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion SmartBase		
Stabilized mount	True		
Base station	ASB		
Processing start time	309708.029 (3/27/2019 2:01:48 PM)		
Processing end time	323837.000 (3/27/2019 5:57:17 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