

General Information

Mission Information

Project name	13284-1901_20190311a
Processing date	2019-03-13 13:11:13
Mission date	2019-03-11 12:05:25
Mission duration	04:19:28.000
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
190311_120506_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0700.19g	GLONASS Broadcast Ephemeris
Ephm0700.19n	GPS Broadcast Ephemeris
WVOH070A.19o	GNSS SingleBase
WVRA070A.19o	GNSS SingleBase
WVSA070A.19o	GNSS SingleBase
WVLA070A.19o	GNSS SingleBase
KYGB070A.19o	GNSS SingleBase
KYPA070A.19o	GNSS SingleBase
KYTL070A.19o	GNSS SingleBase
WVCH070A.19o	GNSS SingleBase
WVHU070A.19o	GNSS SingleBase
WVSW070A.19o	GNSS SingleBase
vawy070i.19o	GNSS SingleBase
ncmt070k.19o	GNSS SingleBase
ncmt070l.19o	GNSS SingleBase
ncmt070m.19o	GNSS SingleBase
vaab070i.19o	GNSS SingleBase
vaab070j.19o	GNSS SingleBase
vaab070k.19o	GNSS SingleBase
vaab070l.19o	GNSS SingleBase
ncmt070j.19o	GNSS SingleBase
vaab070m.19o	GNSS SingleBase
vary070j.19o	GNSS SingleBase
vary070k.19o	GNSS SingleBase
vary070l.19o	GNSS SingleBase
vary070m.19o	GNSS SingleBase
varl070i.19o	GNSS SingleBase
varl070j.19o	GNSS SingleBase
varl070k.19o	GNSS SingleBase
vary070i.19o	GNSS SingleBase
ncmt070i.19o	GNSS SingleBase
wvbf070m.19o	GNSS SingleBase
wvbf070l.19o	GNSS SingleBase
vawy070j.19o	GNSS SingleBase
vawy070k.19o	GNSS SingleBase
vawy070l.19o	GNSS SingleBase
vawy070m.19o	GNSS SingleBase
loyu070i.19o	GNSS SingleBase
loyu070j.19o	GNSS SingleBase
loyu070k.19o	GNSS SingleBase
loyu070l.19o	GNSS SingleBase
loyu070m.19o	GNSS SingleBase
ls04070i.19o	GNSS SingleBase
ls04070j.19o	GNSS SingleBase
ls04070k.19o	GNSS SingleBase
ls04070l.19o	GNSS SingleBase
ls04070m.19o	GNSS SingleBase
wvbf070i.19o	GNSS SingleBase
wvbf070j.19o	GNSS SingleBase
wvbf070k.19o	GNSS SingleBase
varl070l.19o	GNSS SingleBase
varl070m.19o	GNSS SingleBase
igr20441.sp3	GPS Precise Ephemeris
igu20440_00.sp3	GPS Precise Ephemeris
igu20440_06.sp3	GPS Precise Ephemeris

File Name	File type
igu20440_12.sp3	GPS Precise Ephemeris
igu20440_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

Output Files

Filename	File type
sbet_20190311a.out	SBET Trajectory File

Rover Data Summary

First raw data file	190311_120506_INS-GPS_1.raw		
Last raw data file	190311_120506_INS-GPS_1.raw		
Start GPS week	2044		
Start time	129906.664 (3/11/2019 12:05:06 PM)		
End time	145475.455 (3/11/2019 4:24:35 PM)		
Start of fine alignment	130335.772 (3/11/2019 12:12:15 PM)		
Available subsystems	Primary GNSS, Gimbal, IMU		
POS Event Input	Event 1 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_20190311a.log
IMU Records Processed	3113143
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	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]	0.54	56.44	
Number of GPS SV	7	12	10
Number of GLONASS SV	0	8	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Total number of SV	9	18	15
PDOP	1.11	2.41	1.37
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	15528.00	0.00	1.00
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	129907.000 (3/11/2019 12:05:07 PM)		
Processing end time	145475.000 (3/11/2019 4:24:35 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