

General Information

Mission Information

Project name	13284-1901_20190311b
Processing date	2019-03-13 19:23:23
Mission date	2019-03-11 20:16:06
Mission duration	03:04:07.000
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_201547_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
var1070s.19o	GNSS SingleBase
var1070t.19o	GNSS SingleBase
var1070u.19o	GNSS SingleBase
var1070v.19o	GNSS SingleBase
var1070w.19o	GNSS SingleBase
var1070x.19o	GNSS SingleBase
wvbf070s.19o	GNSS SingleBase
wvbf070t.19o	GNSS SingleBase
wvbf070u.19o	GNSS SingleBase
wvbf070v.19o	GNSS SingleBase
wvbf070w.19o	GNSS SingleBase
wvbf070x.19o	GNSS SingleBase
igr20441.sp3	GPS Precise Ephemeris
igu20440_00.sp3	GPS Precise Ephemeris
igu20440_06.sp3	GPS Precise Ephemeris
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
sbt_20190311b.out	SBET Trajectory File

Rover Data Summary

First raw data file	190311_201547_INS-GPS_1.raw		
Last raw data file	190311_201547_INS-GPS_1.raw		
Start GPS week	2044		
Start time	159347.079 (3/11/2019 8:15:47 PM)		
End time	170395.799 (3/11/2019 11:19:55 PM)		
Start of fine alignment	159675.868 (3/11/2019 8:21:15 PM)		
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_20190311b.log
IMU Records Processed	2209272
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]	4.61	69.10	
Number of GPS SV	8	11	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	16
PDOP	1.14	2.13	1.35
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	11034.00	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	159348.000 (3/11/2019 8:15:48 PM)		
Processing end time	170395.000 (3/11/2019 11:19:55 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