

General Information

Mission Information

Project name	13284-1805_20190209a
Processing date	2019-02-12 18:53:27
Mission date	2019-02-09 16:39:40
Mission duration	00:45:33.678
Processing mode	IN-Fusion SmartBase
GPS Station	ASB

Rover Hardware Information

Product	POS AV 510 VER6 HW2.5-12
Serial number	S/N7419
IMU type	46
Receiver type	BD982
Antenna type	AV37

Project File List

Rover Data Files

File name	File type
190209_163921_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0400.19g	GLONASS Broadcast Ephemeris
Ephm0400.19n	GPS Broadcast Ephemeris
WVCL040A.19g	GLONASS Broadcast Ephemeris
WVOH040A.19n	GPS Broadcast Ephemeris
WVOH040A.19g	GLONASS Broadcast Ephemeris
WVNR040A.19o	GNSS SingleBase
WVNR040A.19n	GPS Broadcast Ephemeris
WVNR040A.19g	GLONASS Broadcast Ephemeris
WVLE040A.19o	GNSS SingleBase
WVLE040A.19n	GPS Broadcast Ephemeris
WVLE040A.19g	GLONASS Broadcast Ephemeris
WVGB040A.19o	GNSS SingleBase
WVGB040A.19n	GPS Broadcast Ephemeris
WVGB040A.19g	GLONASS Broadcast Ephemeris
WVFL040A.19o	GNSS SingleBase
WVFL040A.19n	GPS Broadcast Ephemeris
WVFL040A.19g	GLONASS Broadcast Ephemeris
WVCL040A.19o	GNSS SingleBase
WVCL040A.19n	GPS Broadcast Ephemeris
WVOH040A.19o	GNSS SingleBase
ls080400.19o	GNSS SingleBase
wvmz0400.19o	GNSS SingleBase
igr20395.sp3	GPS Precise Ephemeris
igr20396.sp3	GPS Precise Ephemeris
igr20400.sp3	GPS Precise Ephemeris
WVBR040A.19g	GLONASS Broadcast Ephemeris
WVBR040A.19n	GPS Broadcast Ephemeris
WVBR040A.19o	GNSS SingleBase

Output Files

Filename	File type
sbet_20190209a.out	SBET Trajectory File

Rover Data Summary

First raw data file	190209_163921_INS-GPS_1.raw		
Last raw data file	190209_163921_INS-GPS_1.raw		
Start GPS week	2039		
Start time	578361.860 (2/9/2019 4:39:21 PM)		
End time	583313.644 (2/9/2019 6:01:53 PM)		
Start of fine alignment	578744.718 (2/9/2019 4:45:44 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]	-0.039	-0.008	-0.729
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_20190209a.log
IMU Records Processed	978245
Termination Status	Warnings
IMU Anomalies	1
IMU Failure Messages	
581535.451 : WARNING : Gap of 61.0962 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]	17.70	71.31	
Number of GPS SV	8	10	9
Number of GLONASS SV	0	4	4
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Total number of SV	10	14	13
PDOP	1.30	1.95	1.46
QC Solution Gaps	1.00	61.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	4833.00	0.00	62.00
Percentage	98.73	0.00	1.27

GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion SmartBase		
Stabilized mount	True		
Base station	ASB		
Processing start time	578362.000 (2/9/2019 4:39:22 PM)		
Processing end time	581095.678 (2/9/2019 5:24:55 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]	-0.039	-0.008	-0.729
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