General Information

Mission Information

Project name	13284-1805_20190210a
Processing date	2019-02-12 20:41:05
Mission date	2019-02-10 13:21:36
Mission duration	01:41:32.977
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
190210_132121_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0410.19g	GLONASS Broadcast Ephemeris
Ephm0410.19n	GPS Broadcast Ephemeris
WVBR041A.19g	GLONASS Broadcast Ephemeris
WVLE041A.19g	GLONASS Broadcast Ephemeris
WVLE041A.19n	GPS Broadcast Ephemeris
WVLE041A.19o	GNSS SingleBase
WVMF041A.19g	GLONASS Broadcast Ephemeris
WVMF041A.19n	GPS Broadcast Ephemeris
WVMF041A.19o	GNSS SingleBase
WVNR041A.19g	GLONASS Broadcast Ephemeris
WVNR041A.19n	GPS Broadcast Ephemeris
WVNR041A.19o	GNSS SingleBase
WVTA041A.19g	GLONASS Broadcast Ephemeris
WVTA041A.19n	GPS Broadcast Ephemeris
WVGB041A.19o	GNSS SingleBase
WVGB041A.19n	GPS Broadcast Ephemeris
WVGB041A.19g	GLONASS Broadcast Ephemeris
WVBR041A.19n	GPS Broadcast Ephemeris
WVBR041A.19o	GNSS SingleBase
WVCV041A.19g	GLONASS Broadcast Ephemeris
WVCV041A.19n	GPS Broadcast Ephemeris
WVCV041A.19o	GNSS SingleBase
WVFL041A.19g	GLONASS Broadcast Ephemeris
WVFL041A.19n	GPS Broadcast Ephemeris
WVFL041A.19o	GNSS SingleBase
WVFR041A.19g	GLONASS Broadcast Ephemeris
WVFR041A.19n	GPS Broadcast Ephemeris
WVFR041A.19o	GNSS SingleBase
WVTA041A.19o	GNSS SingleBase
igr20400.sp3	GPS Precise Ephemeris
igr20401.sp3	GPS Precise Ephemeris
igr20396.sp3	GPS Precise Ephemeris

Output Files

Filename	File type
sbet_20190210a.out	SBET Trajectory File

Rover Data Summary

First raw data file	190210_132121_INS-GPS_1.raw		
Last raw data file	190210_132121_INS-GPS_1.raw		
Start GPS week	2040		
Start time	48078.033 (2/10/2019 1:21:18 PM)		
End time	54171.655 (2/10/2019 3:02:51 PM)		
Start of fine alignment	48097.722 (2/10/2019 1:21:37 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_20190210a.log
IMU Records Processed	1219034
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]	3.72	62.18	
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	14
PDOP	1.24	1.96	1.50
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	6085.00	0.00	1.00
Percentage	99.98	0.00	0.02

GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion SmartBase		
Stabilized mount	True		
Base station	ASB		
Processing start time	48078.023 (2/10/2019 1:21:18 PM)		
Processing end time	54171.000 (2/10/2019 3:02:51 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