

General Information

Mission Information

Project name	13284-1805_20190226c
Processing date	2019-02-28 20:32:20
Mission date	2019-02-26 21:00:50
Mission duration	02:07:37.000
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
190226_210053_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0570.19g	GLONASS Broadcast Ephemeris
Ephm0570.19n	GPS Broadcast Ephemeris
loya0570.19o	GNSS SingleBase
loyp0570.19o	GNSS SingleBase
ls080570.19o	GNSS SingleBase
WVAT057A.19g	GLONASS Broadcast Ephemeris
WVGB057A.19g	GLONASS Broadcast Ephemeris
WVGB057A.19n	GPS Broadcast Ephemeris
WVGB057A.19o	GNSS SingleBase
WVLE057A.19g	GLONASS Broadcast Ephemeris
WVLE057A.19n	GPS Broadcast Ephemeris
WVLE057A.19o	GNSS SingleBase
WVNR057A.19g	GLONASS Broadcast Ephemeris
WVNR057A.19n	GPS Broadcast Ephemeris
WVNR057A.19o	GNSS SingleBase
WVOH057A.19g	GLONASS Broadcast Ephemeris
WVOH057A.19n	GPS Broadcast Ephemeris
WVFR057A.19o	GNSS SingleBase
WVFR057A.19n	GPS Broadcast Ephemeris
WVFR057A.19g	GLONASS Broadcast Ephemeris
WVAT057A.19n	GPS Broadcast Ephemeris
WVAT057A.19o	GNSS SingleBase
WVCL057A.19g	GLONASS Broadcast Ephemeris
WVCL057A.19n	GPS Broadcast Ephemeris
WVCL057A.19o	GNSS SingleBase
WVCV057A.19g	GLONASS Broadcast Ephemeris
WVCV057A.19n	GPS Broadcast Ephemeris
WVCV057A.19o	GNSS SingleBase
WVFL057A.19g	GLONASS Broadcast Ephemeris
WVFL057A.19n	GPS Broadcast Ephemeris
WVFL057A.19o	GNSS SingleBase
WVOH057A.19o	GNSS SingleBase
igr20422.sp3	GPS Precise Ephemeris
igu20421_00.sp3	GPS Precise Ephemeris
igu20421_06.sp3	GPS Precise Ephemeris
igu20421_12.sp3	GPS Precise Ephemeris
igu20421_18.sp3	GPS Precise Ephemeris
igu20422_00.sp3	GPS Precise Ephemeris
igu20422_06.sp3	GPS Precise Ephemeris
igu20422_12.sp3	GPS Precise Ephemeris
igu20422_18.sp3	GPS Precise Ephemeris
igu20423_00.sp3	GPS Precise Ephemeris
igu20423_06.sp3	GPS Precise Ephemeris
igu20423_12.sp3	GPS Precise Ephemeris
igu20423_18.sp3	GPS Precise Ephemeris

Output Files

Filename	File type
sbet_20190226c.out	SBET Trajectory File

Rover Data Summary

First raw data file	190226_210053_INS-GPS_1.raw		
Last raw data file	190226_210053_INS-GPS_1.raw		
Start GPS week	2042		
Start time	248449.822 (2/26/2019 9:00:31 PM)		
End time	256107.383 (2/26/2019 11:08:09 PM)		
Start of fine alignment	248806.601 (2/26/2019 9:06:28 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_20190226c.log
IMU Records Processed	1531773
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
------	----	------	-----------	------	---------	----------	--------

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]	0.46	63.96	
Number of GPS SV	8	11	10
Number of GLONASS SV	0	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Total number of SV	9	17	15
PDOP	1.16	1.88	1.41
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	7621.00	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	248450.000 (2/26/2019 9:00:32 PM)		
Processing end time	256107.000 (2/26/2019 11:08:09 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]	0.648	-0.088	-0.751
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