

General Information

Mission Information

Project name	13284-1909_20190326
Processing date	2019-03-28 21:09:59
Mission date	2019-03-26 19:05:32
Mission duration	03:07:34.742
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
190326_190514_INS-GPS_1.raw	POS Data

Input Files

File Name	File type
Ephm0850.19g	GLONASS Broadcast Ephemeris
Ephm0850.19n	GPS Broadcast Ephemeris
WVOH085A.19g	GLONASS Broadcast Ephemeris
WVOH085A.19n	GPS Broadcast Ephemeris
WVOH085A.19o	GNSS SingleBase
WVSA085A.19g	GLONASS Broadcast Ephemeris
WVSA085A.19n	GPS Broadcast Ephemeris
WVSA085A.19o	GNSS SingleBase
WVSW085A.19g	GLONASS Broadcast Ephemeris
WVSW085A.19n	GPS Broadcast Ephemeris
WVLA085A.19o	GNSS SingleBase
WVLA085A.19n	GPS Broadcast Ephemeris
WVLA085A.19g	GLONASS Broadcast Ephemeris
KYTL085A.19g	GLONASS Broadcast Ephemeris
KYTL085A.19n	GPS Broadcast Ephemeris
KYTL085A.19o	GNSS SingleBase
WVAT085A.19g	GLONASS Broadcast Ephemeris
WVAT085A.19n	GPS Broadcast Ephemeris
WVAT085A.19o	GNSS SingleBase
WVCH085A.19g	GLONASS Broadcast Ephemeris
WVCH085A.19n	GPS Broadcast Ephemeris
WVCH085A.19o	GNSS SingleBase
WVSW085A.19o	GNSS SingleBase
igr20461.sp3	GPS Precise Ephemeris
igr20462.sp3	GPS Precise Ephemeris
igr20463.sp3	GPS Precise Ephemeris
vawy085s00.19o	GNSS SingleBase
wvbf085s00.19o	GNSS SingleBase
wvbf085t.19o	GNSS SingleBase
wvbf085u.19o	GNSS SingleBase
wvbf085v.19o	GNSS SingleBase
wvbf085w.19o	GNSS SingleBase
wvbf085x.19o	GNSS SingleBase
var1085s00.19o	GNSS SingleBase
var1085t.19o	GNSS SingleBase
var1085u.19o	GNSS SingleBase
var1085v.19o	GNSS SingleBase
vawy085t.19o	GNSS SingleBase
vawy085u.19o	GNSS SingleBase
vawy085v.19o	GNSS SingleBase
vawy085w.19o	GNSS SingleBase
vawy085x.19o	GNSS SingleBase
var1085w.19o	GNSS SingleBase
var1085x.19o	GNSS SingleBase

Output Files

Filename	File type
sbet_20190326.out	SBET Trajectory File

Rover Data Summary

First raw data file	190326_190514_INS-GPS_1.raw		
Last raw data file	190326_190514_INS-GPS_1.raw		
Start GPS week	2046		
Start time	241514.182 (3/26/2019 7:05:14 PM)		
End time	256694.872 (3/26/2019 11:18:14 PM)		
Start of fine alignment	243469.662 (3/26/2019 7:37:49 PM)		
Available subsystems	Primary GNSS, Gimbal, IMU		
POS Event Input	Event 1 Input, Event 2 Input, Event 3 Input, Event 4 Input, Event 5 Input, Event 6 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_20190326.log
IMU Records Processed	3035432
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]	0.41	110.31	
Number of GPS SV	8	11	10
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	9	17	15
PDOP	1.14	2.39	1.41
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (s)	15130.00	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	243469.647 (3/26/2019 7:37:49 PM)		
Processing end time	254724.389 (3/26/2019 10:45:24 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