

## General Information

### Mission Information

Project name	220523_A_5060386_nad2011_FINAL
Processing date	2022-06-01 17:33:55
Mission date	2022-05-23 14:13:41
Mission duration	02:32:51.000
Processing mode	IN-Fusion PP-RTX

### Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N8083
IMU type	57
Receiver type	BD982
Antenna type	AV39

## Project File List

### Rover Data Files

File name	File type
0523a386.005	POS Data
0523a386.006	POS Data
0523a386.007	POS Data
0523a386.008	POS Data
0523a386.009	POS Data
0523a386.010	POS Data
0523a386.011	POS Data
0523a386.012	POS Data
0523a386.013	POS Data
0523a386.014	POS Data
0523a386.015	POS Data
0523a386.016	POS Data
0523a386.017	POS Data
0523a386.018	POS Data
0523a386.019	POS Data

### Input Files

File Name	File Type
Ephm1430.22g	GLONASS Broadcast Ephemeris
Ephm1430.22n	GPS Broadcast Ephemeris

### Output Files

Filename	File type
sbet_220523_A_5060386_nad2011_FINAL.out	SBET Trajectory File

## Rover Data Summary

First raw data file	0523a386.005		
Last raw data file	0523a386.019		
Start GPS week	2211		
Start time	137621.027 (5/23/2022 2:13:41 PM)		
End time	146793.207 (5/23/2022 4:46:33 PM)		
Start of fine alignment	138043.372 (5/23/2022 2:20:43 PM)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
<b>IMU Installation Lever Arms &amp; Mounting Angles</b>			
Reference to IMU lever arm (m)	0.000	0.000	0.000
Reference to IMU mounting angles (deg)	0.000	0.000	180.000
Reference to Primary GNSS lever arm (m)	0.140	-0.150	-1.115
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

## Rover Data QC

### Raw IMU Import QC Summary

IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_220523_A_5060386_nad2011_FINAL.log
IMU Records Processed	1834174
Termination Status	Normal
IMU Anomalies	0

## GNSS QC

### GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
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
Number of GALILEO SV	2	7	5
Total number of SV	12	21	19
PDOP	1.06	1.75	1.21
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	9154.00	0.00	0.00
Percentage	100.00	0.00	0.00

## GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion PP-RTX		
Stabilized mount	False		
Processing start time	137621.000 (5/23/2022 2:13:41 PM)		
Processing end time	146792.000 (5/23/2022 4:46:32 PM)		
Initial attitude source	Real-Time VNAV/RNAV Attitude		
IMU Sensor Context	Processing with Onboard IMU		
Reference to IMU lever arm (m)	0.000	0.000	0.000
Reference to IMU mounting angles (deg)	0.000	0.000	180.000
Reference to Primary GNSS lever arm (m)	0.093	-0.176	-0.962
Reference 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