

General Information

Mission Information

Project name	23022_Mohave_QL1_20230313_T2L1_pprtx
Processing date	2023-03-15 17:25:02
Mission date	2023-03-13 22:29:54
Mission duration	04:17:46.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey4.pos	POS Data

Input Files

File Name	File Type
Ephm0720.23g	GLONASS Broadcast Ephemeris
Ephm0720.23n	GPS Broadcast Ephemeris
Ephm0730.23g	GLONASS Broadcast Ephemeris
Ephm0730.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey4.pos		
Last raw data file	survey4.pos		
Start GPS week	2253		
Start time	167393.827 (3/13/2023 10:29:53 PM)		
End time	183046.649 (3/14/2023 2:50:46 AM)		
Start of fine alignment	167543.214 (3/13/2023 10:32:23 PM)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

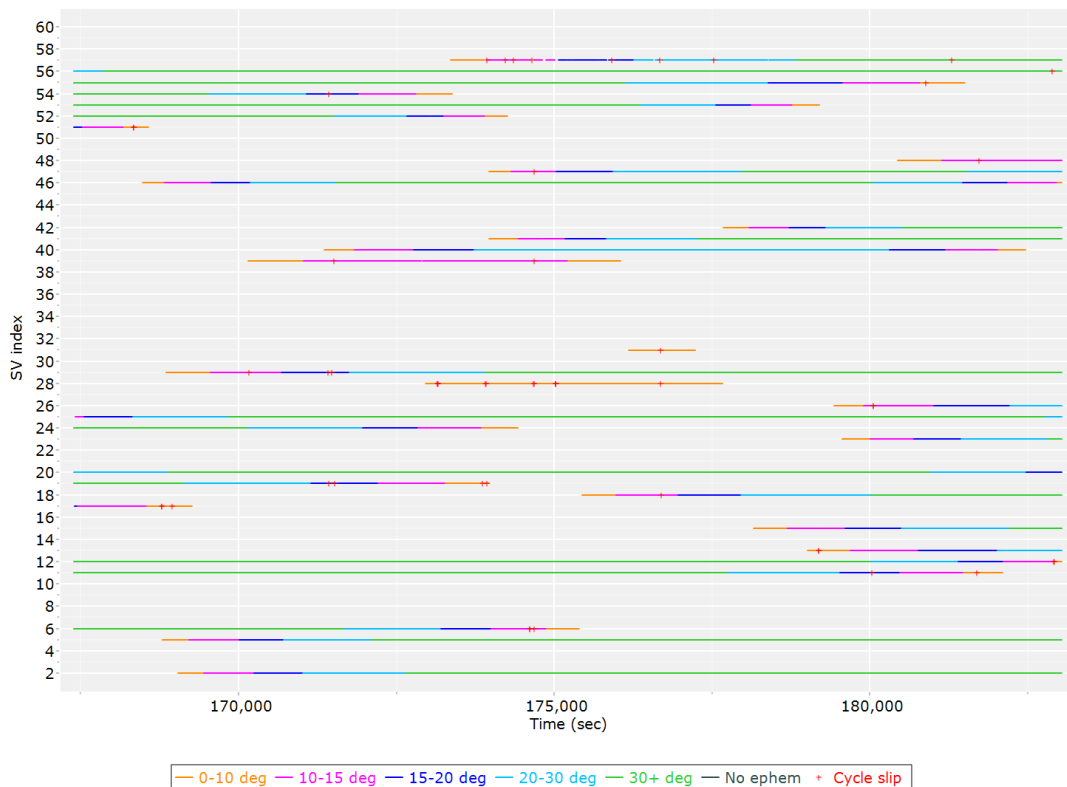
Rover Data QC

Raw IMU Import QC Summary

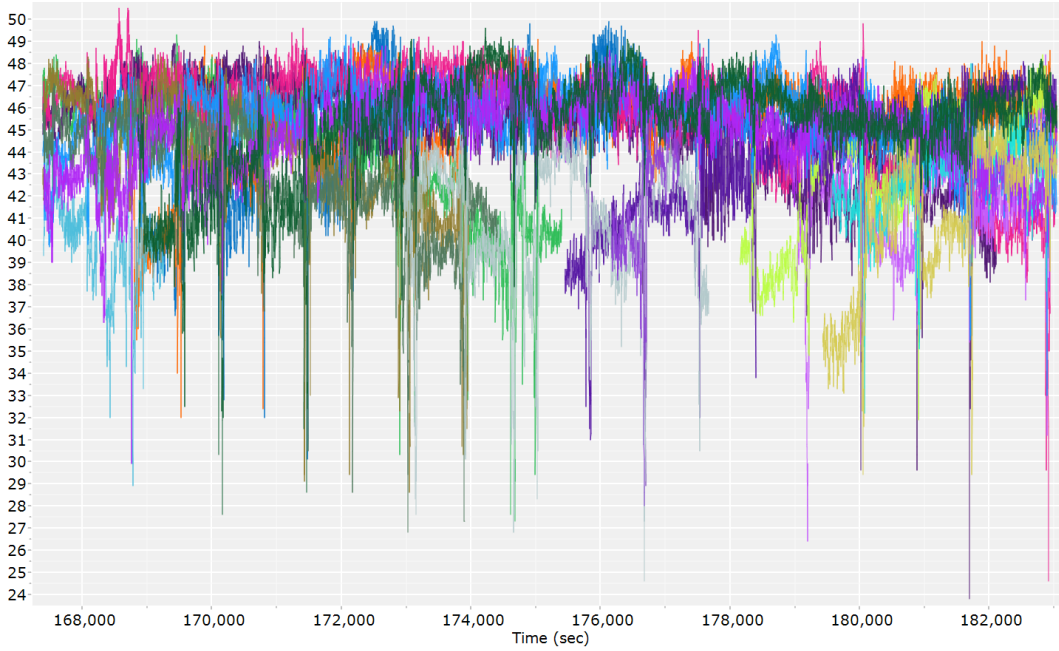
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	3129917
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

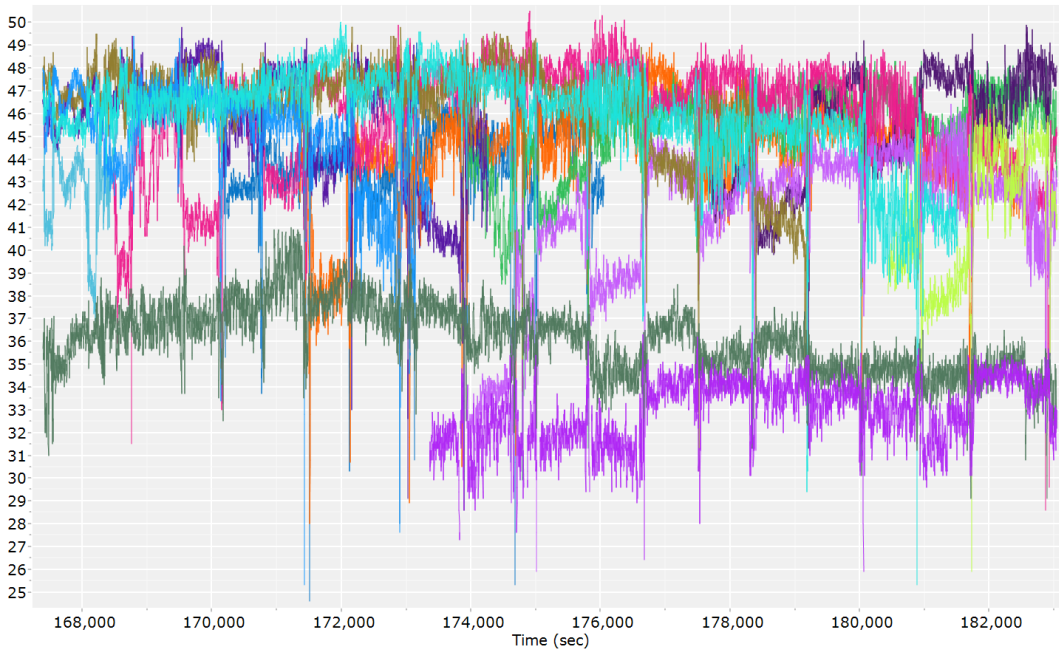


GPS L1 SNR



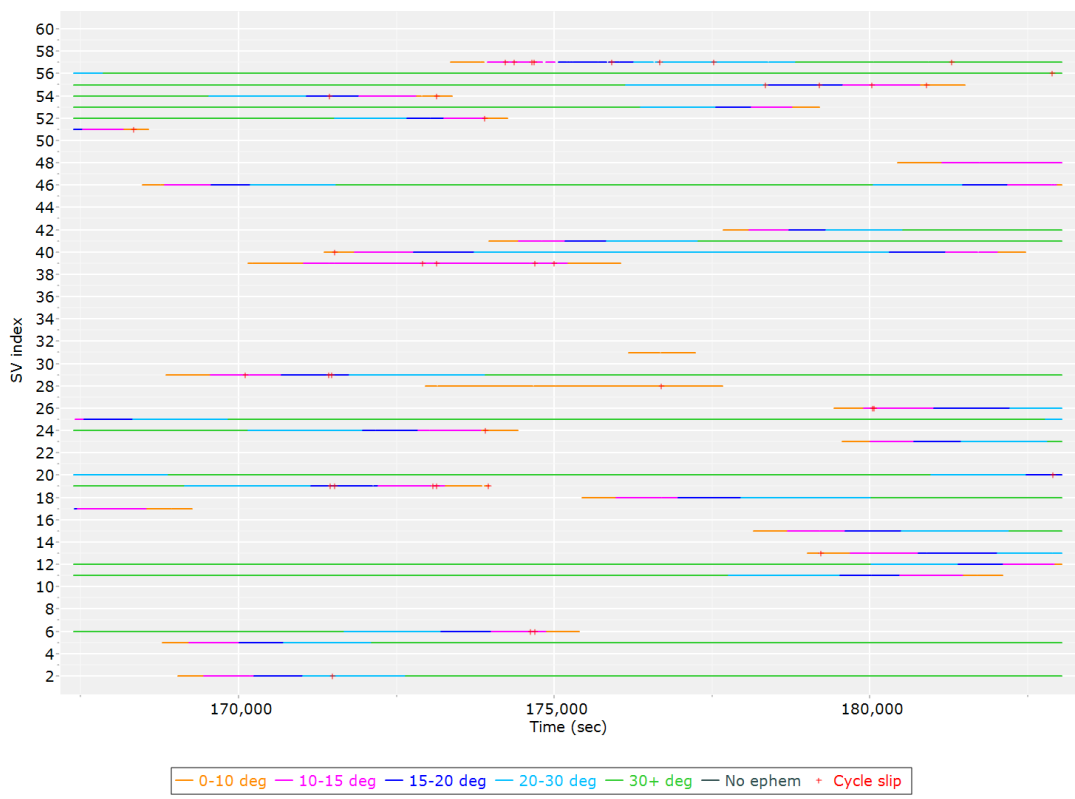
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 02 L1 SNR (dB/Hz) | GPS PRN 05 L1 SNR (dB/Hz) | GPS PRN 06 L1 SNR (dB/Hz) | GPS PRN 11 L1 SNR (dB/Hz) |
| GPS PRN 12 L1 SNR (dB/Hz) | GPS PRN 13 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) | GPS PRN 17 L1 SNR (dB/Hz) |
| GPS PRN 18 L1 SNR (dB/Hz) | GPS PRN 19 L1 SNR (dB/Hz) | GPS PRN 20 L1 SNR (dB/Hz) | GPS PRN 23 L1 SNR (dB/Hz) |
| GPS PRN 24 L1 SNR (dB/Hz) | GPS PRN 25 L1 SNR (dB/Hz) | GPS PRN 26 L1 SNR (dB/Hz) | GPS PRN 28 L1 SNR (dB/Hz) |
| GPS PRN 29 L1 SNR (dB/Hz) | GPS PRN 31 L1 SNR (dB/Hz) | | |

GLONASS L1 SNR

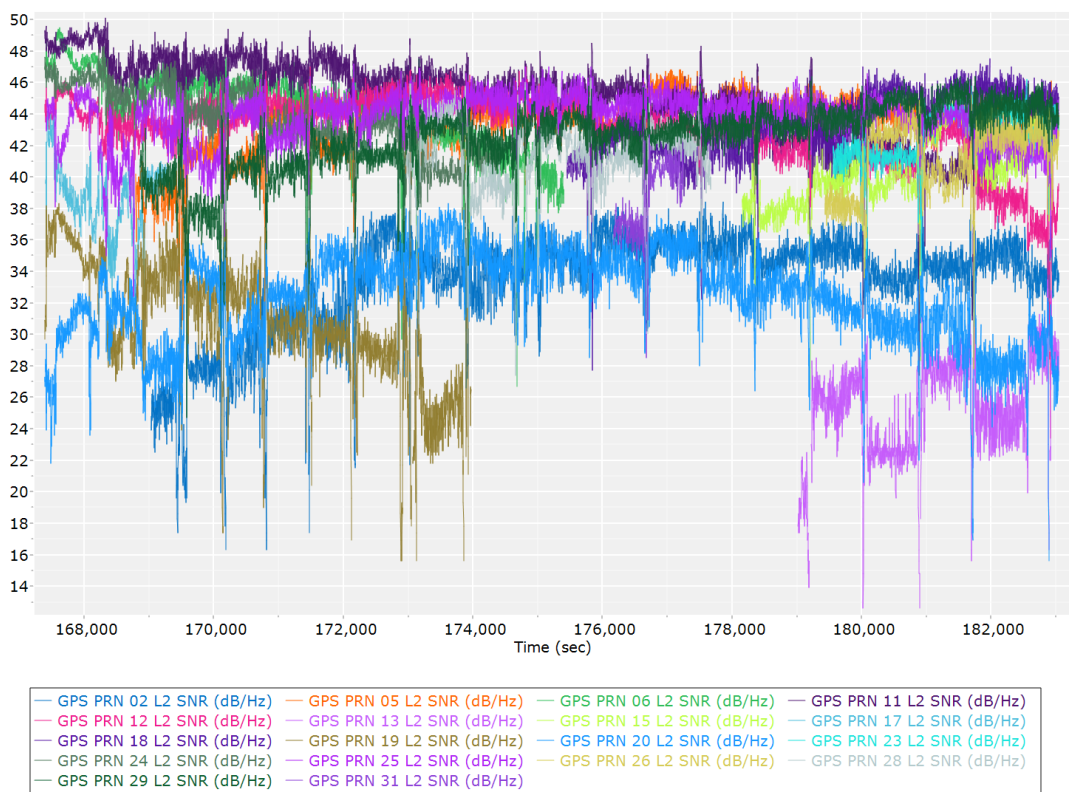


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 02 L1 SNR (dB/Hz) | GLONASS 03 L1 SNR (dB/Hz) | GLONASS 04 L1 SNR (dB/Hz) |
| GLONASS 05 L1 SNR (dB/Hz) | GLONASS 09 L1 SNR (dB/Hz) | GLONASS 10 L1 SNR (dB/Hz) |
| GLONASS 11 L1 SNR (dB/Hz) | GLONASS 14 L1 SNR (dB/Hz) | GLONASS 15 L1 SNR (dB/Hz) |
| GLONASS 16 L1 SNR (dB/Hz) | GLONASS 17 L1 SNR (dB/Hz) | GLONASS 18 L1 SNR (dB/Hz) |
| GLONASS 19 L1 SNR (dB/Hz) | GLONASS 20 L1 SNR (dB/Hz) | |

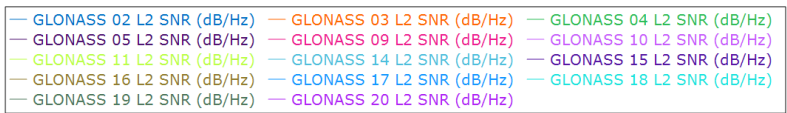
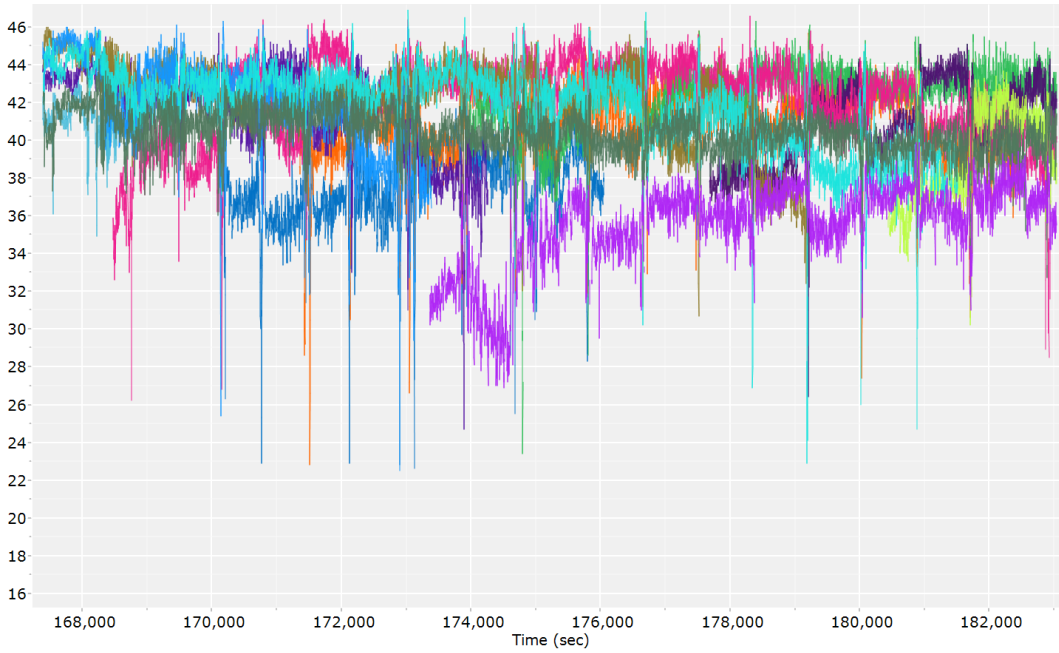
GPS/GLONASS L2 Satellite Lock/Elevation



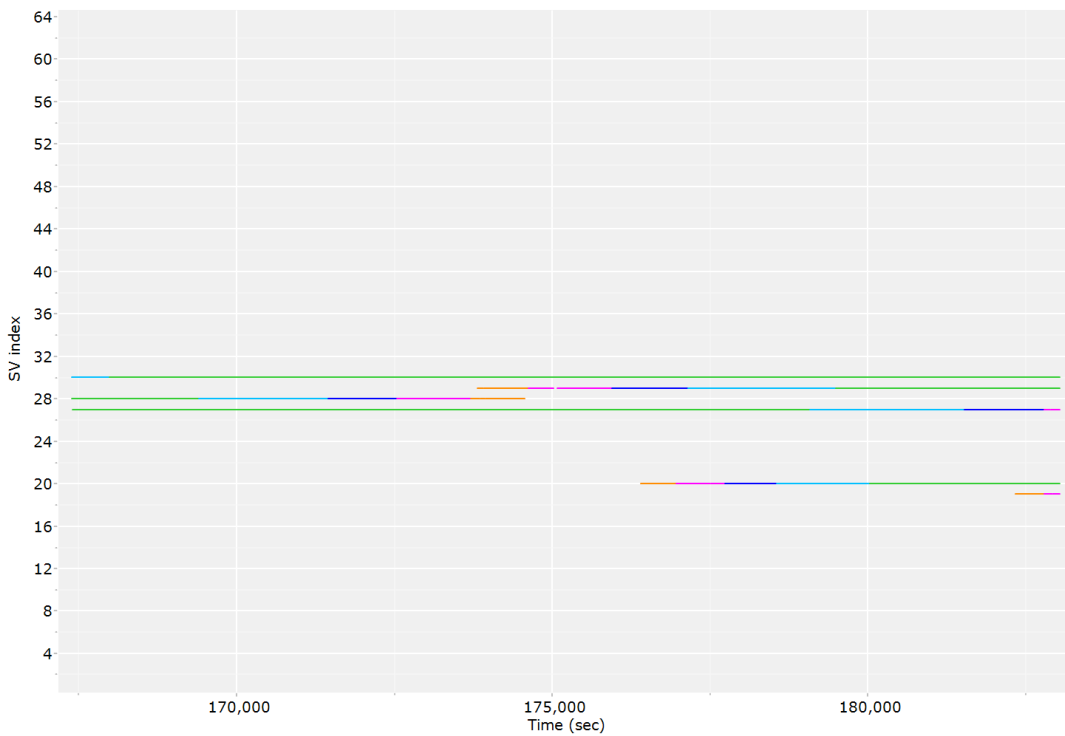
GPS L2 SNR



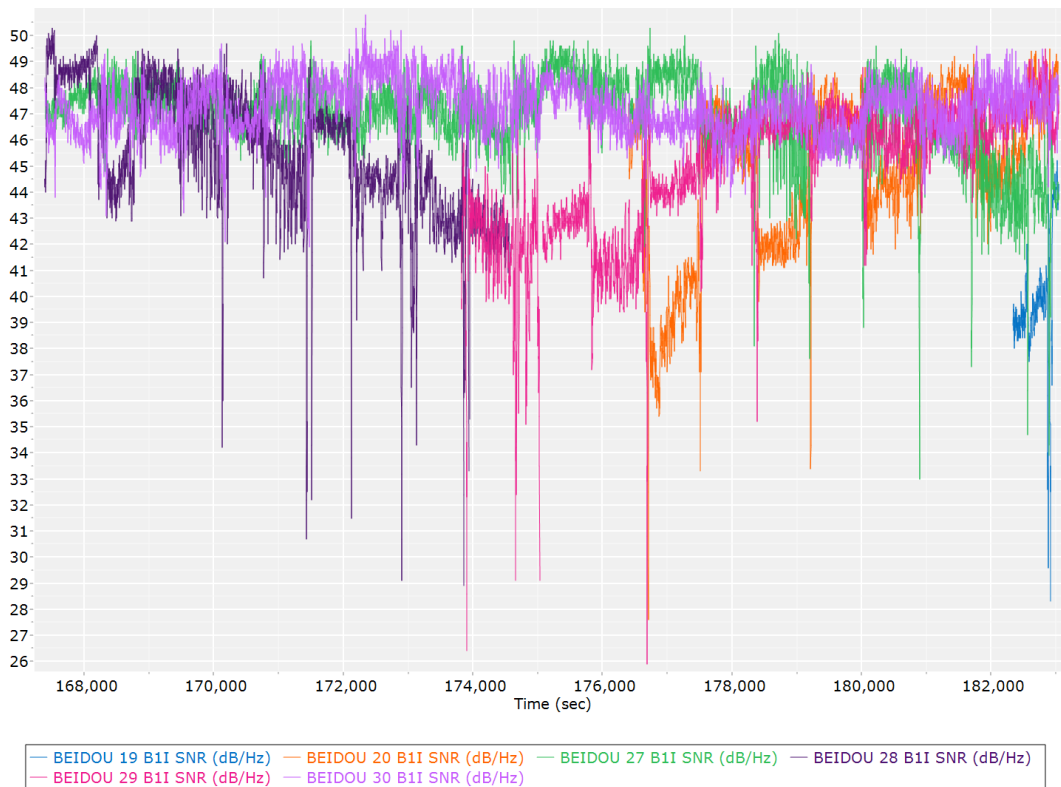
GLONASS L2 SNR



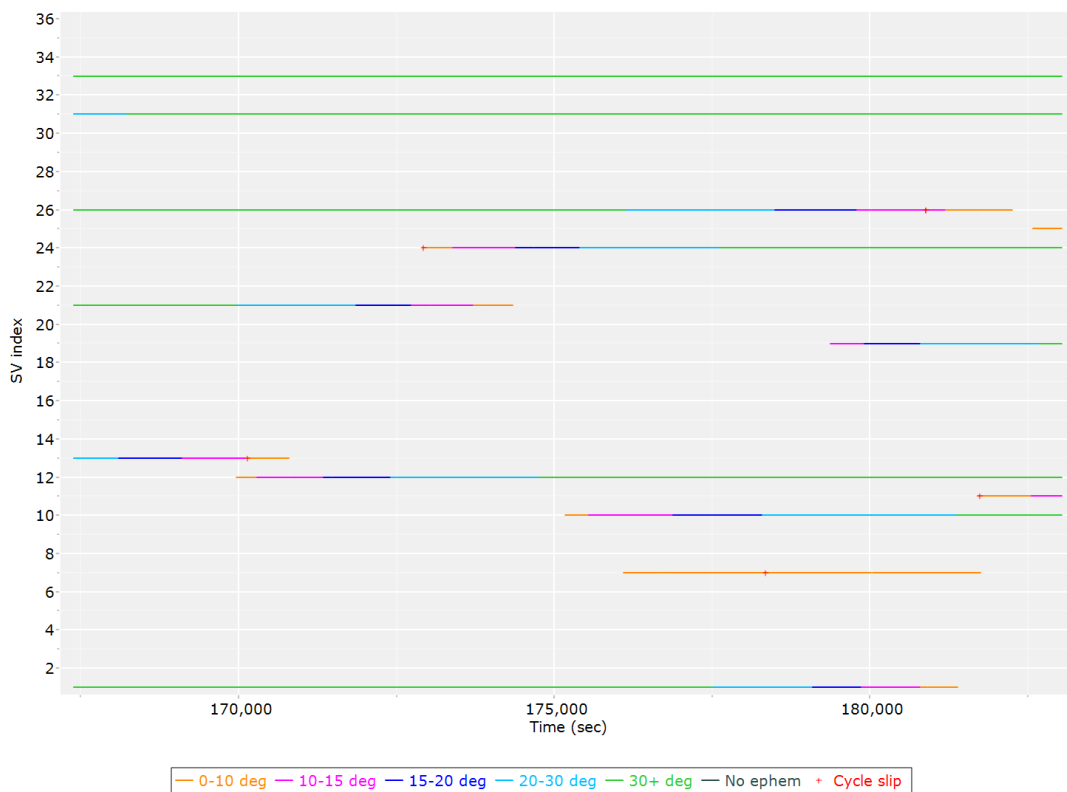
BEIDOU Satellite Lock/Elevation



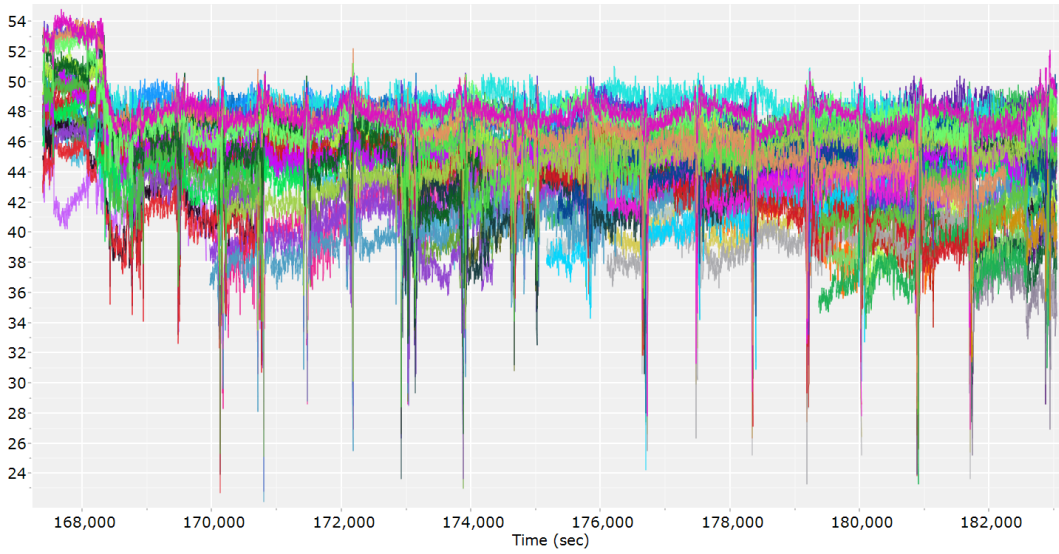
BEIDOU SNR



GALILEO Satellite Lock/Elevation



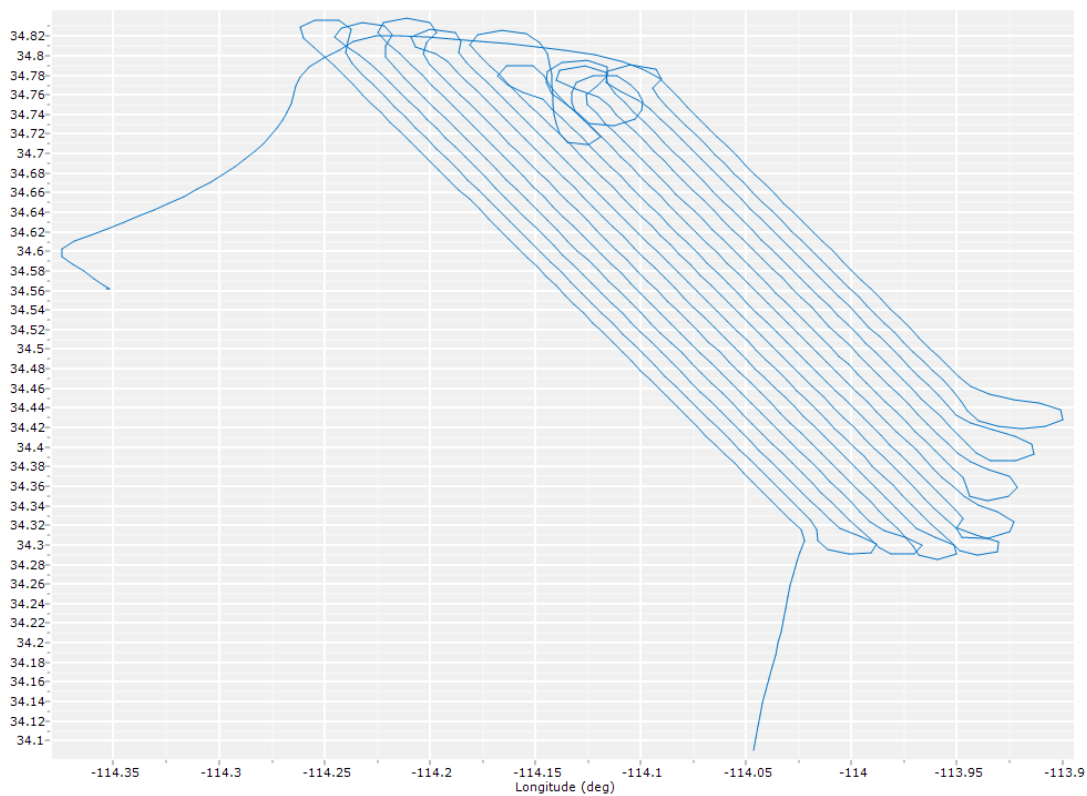
GALILEO SNR



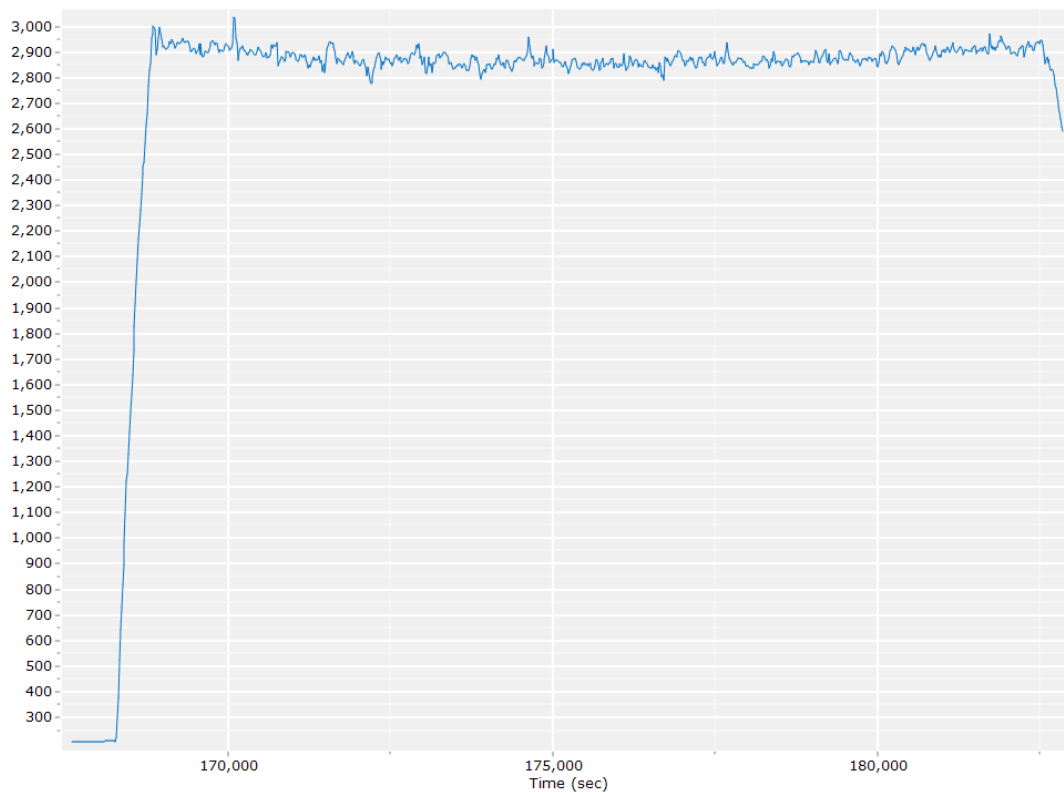
— GALILEO 01 E1CBOC SNR (dB/Hz)	— GALILEO 07 E1CBOC SNR (dB/Hz)	— GALILEO 10 E1CBOC SNR (dB/Hz)
— GALILEO 11 E1CBOC SNR (dB/Hz)	— GALILEO 12 E1CBOC SNR (dB/Hz)	— GALILEO 13 E1CBOC SNR (dB/Hz)
— GALILEO 19 E1CBOC SNR (dB/Hz)	— GALILEO 21 E1CBOC SNR (dB/Hz)	— GALILEO 24 E1CBOC SNR (dB/Hz)
— GALILEO 25 E1CBOC SNR (dB/Hz)	— GALILEO 26 E1CBOC SNR (dB/Hz)	— GALILEO 31 E1CBOC SNR (dB/Hz)
— GALILEO 33 E1CBOC SNR (dB/Hz)	— GALILEO 01 E5A SNR (dB/Hz)	— GALILEO 07 E5A SNR (dB/Hz)
— GALILEO 10 E5A SNR (dB/Hz)	— GALILEO 11 E5A SNR (dB/Hz)	— GALILEO 12 E5A SNR (dB/Hz)
— GALILEO 13 E5A SNR (dB/Hz)	— GALILEO 19 E5A SNR (dB/Hz)	— GALILEO 21 E5A SNR (dB/Hz)
— GALILEO 24 E5A SNR (dB/Hz)	— GALILEO 25 E5A SNR (dB/Hz)	— GALILEO 26 E5A SNR (dB/Hz)
— GALILEO 31 E5A SNR (dB/Hz)	— GALILEO 33 E5A SNR (dB/Hz)	— GALILEO 01 E5B SNR (dB/Hz)
— GALILEO 07 E5B SNR (dB/Hz)	— GALILEO 10 E5B SNR (dB/Hz)	— GALILEO 11 E5B SNR (dB/Hz)

Smoothed Trajectory Information

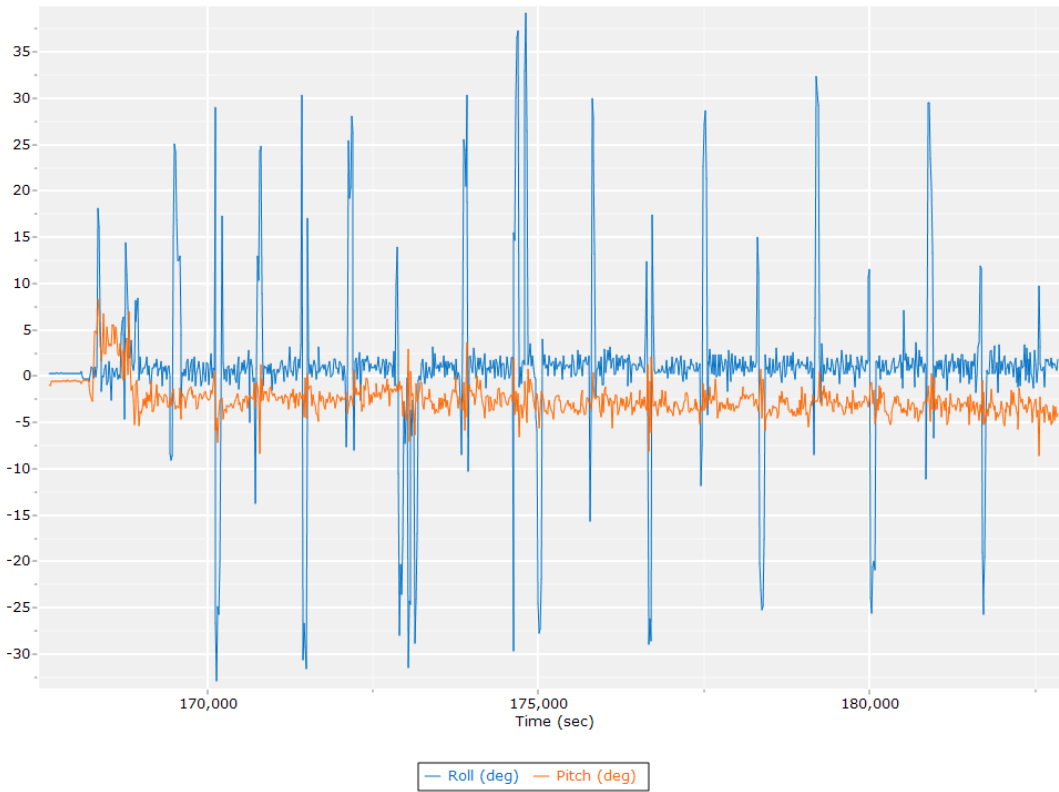
Top View



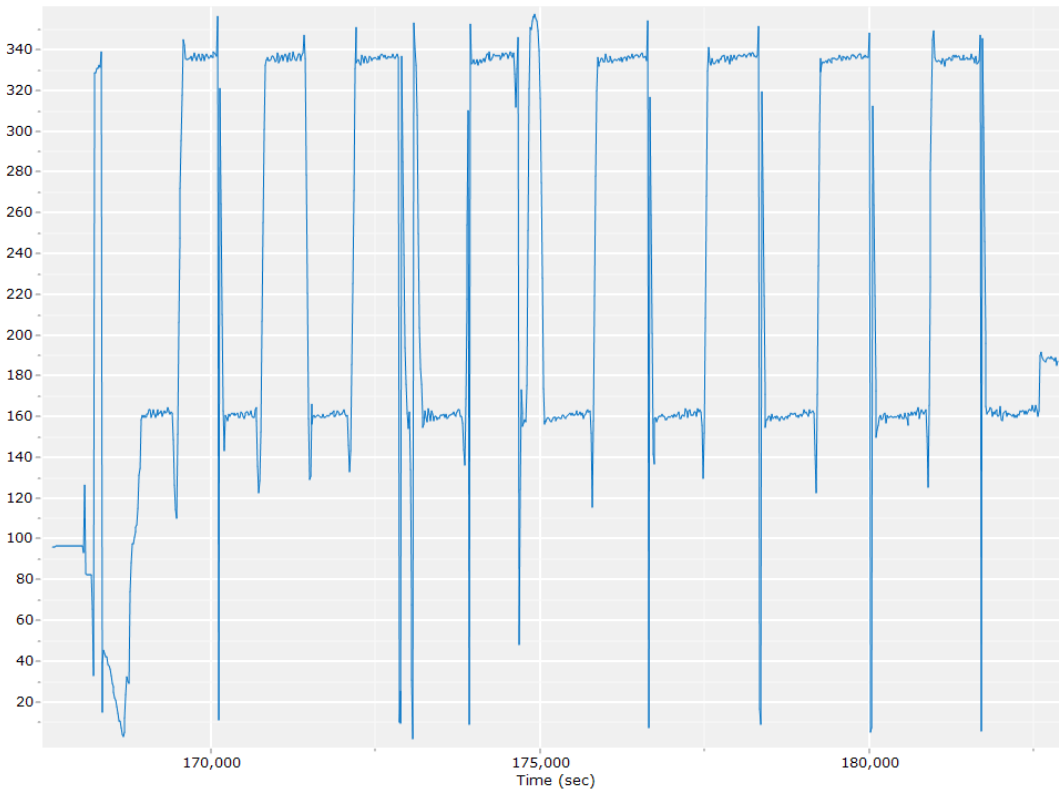
Altitude



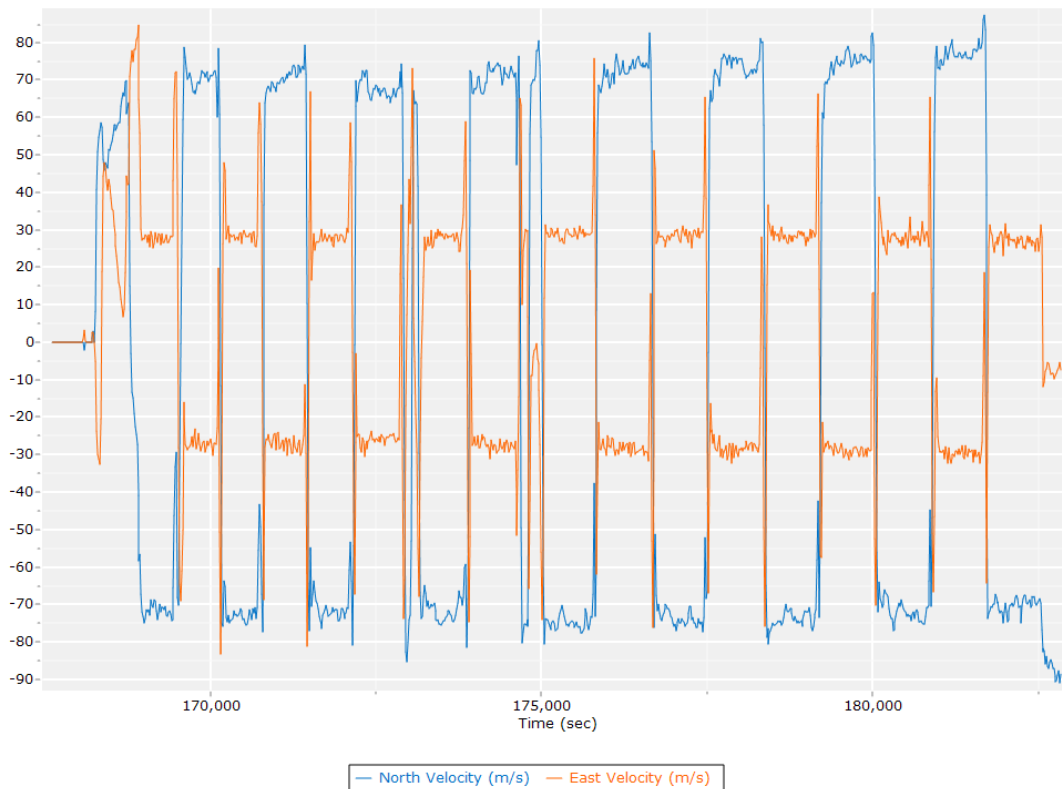
Roll/Pitch



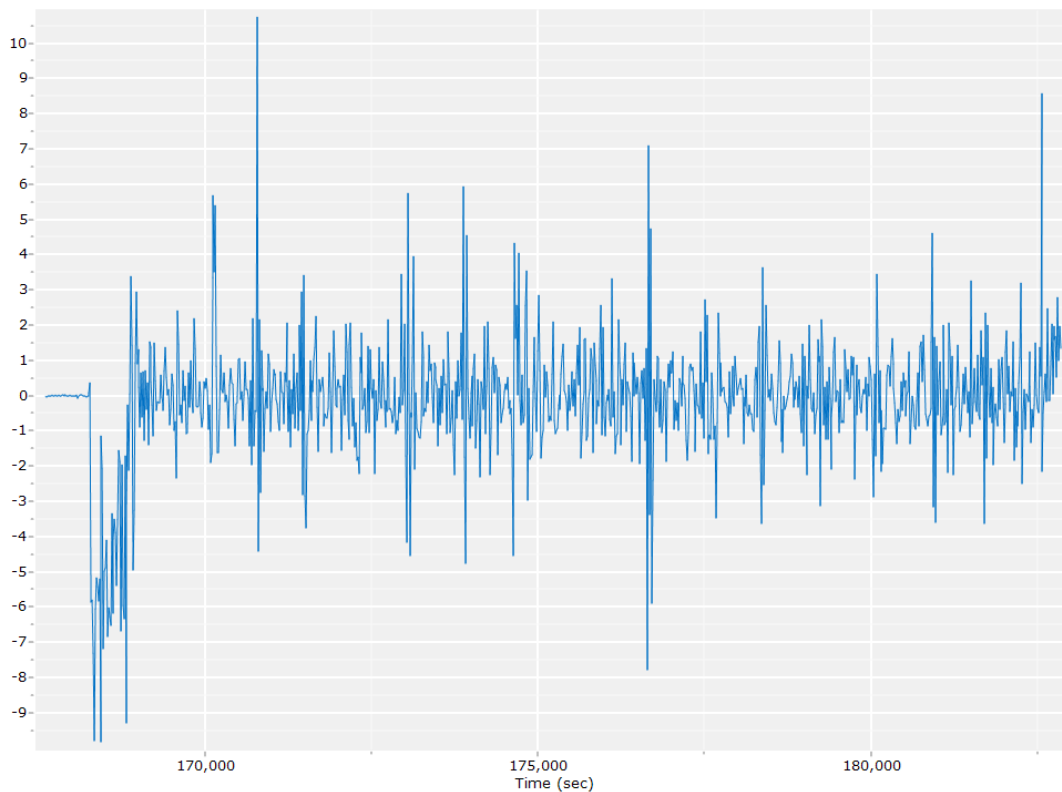
Heading



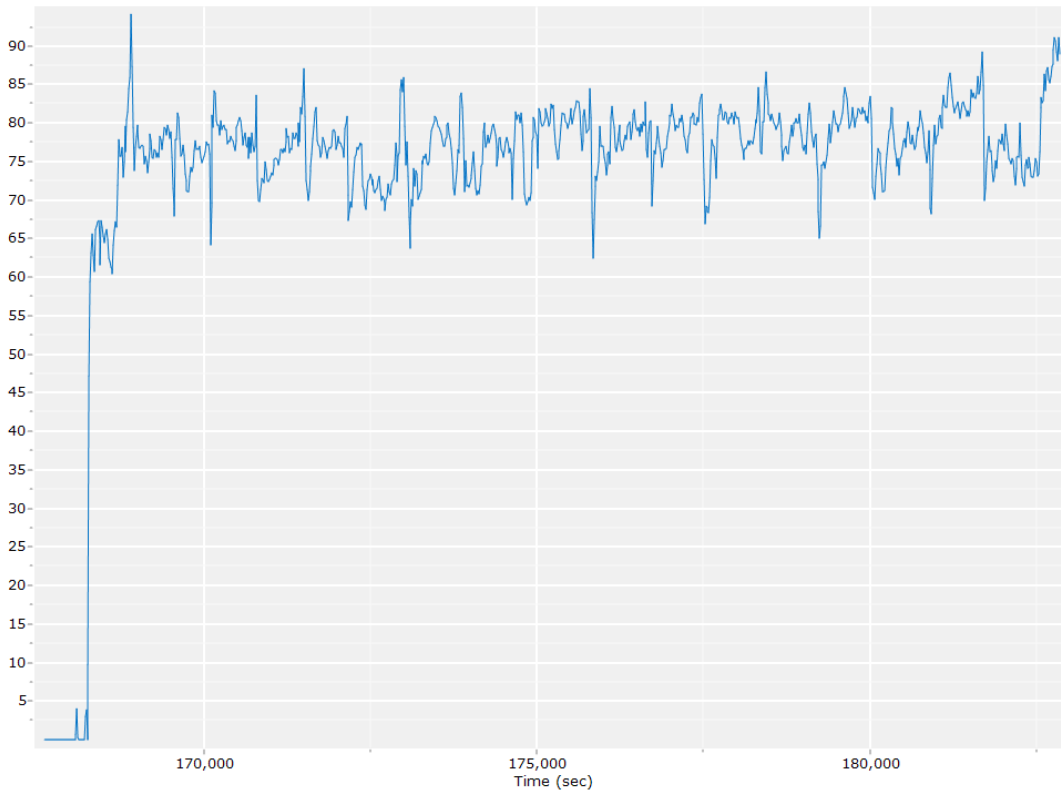
North/East Velocity



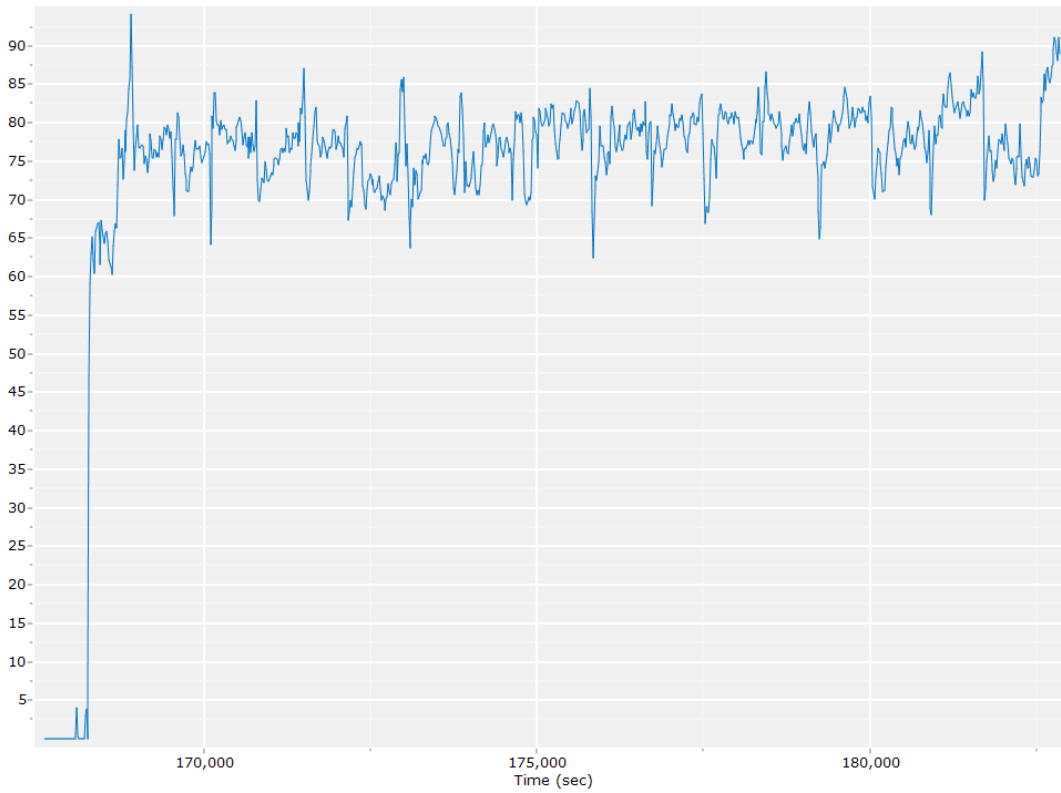
Down Velocity



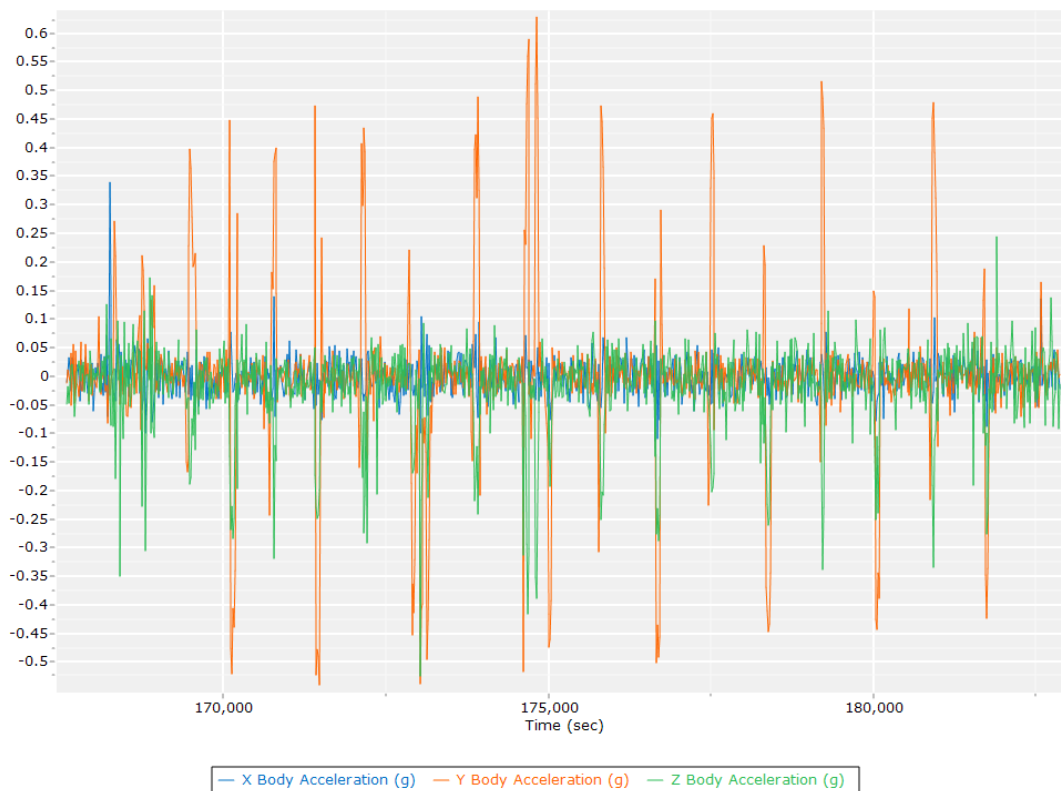
Total Speed



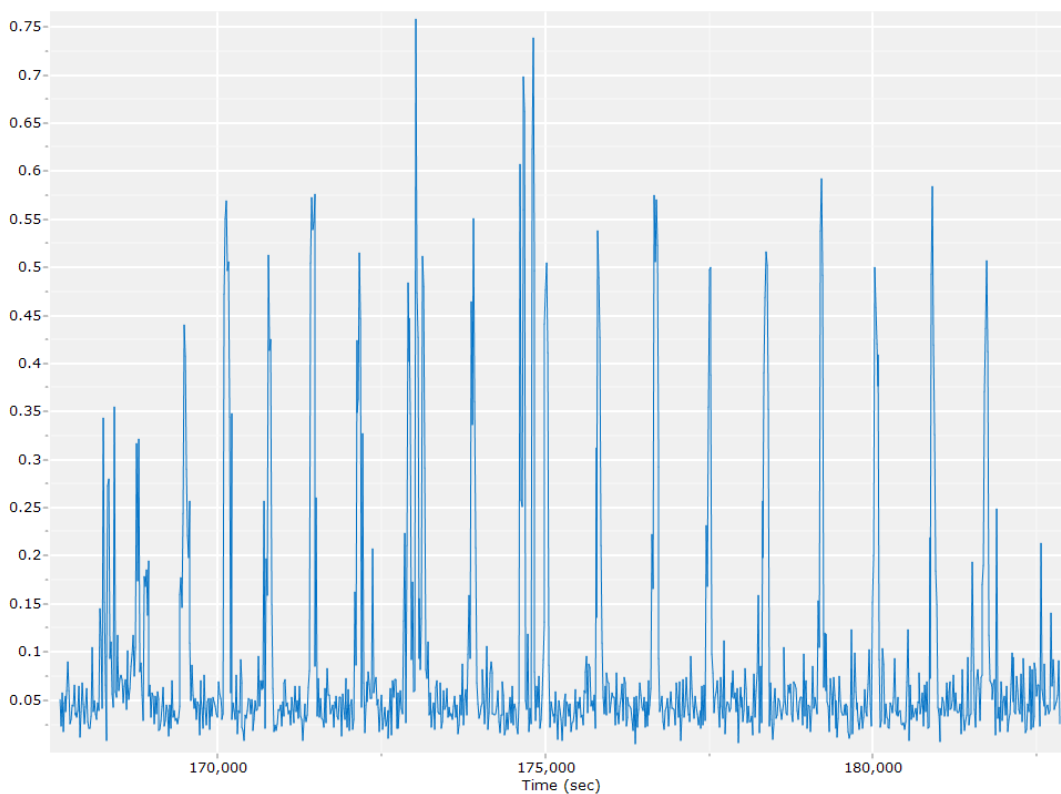
Ground Speed



Body Acceleration



Total Body Acceleration

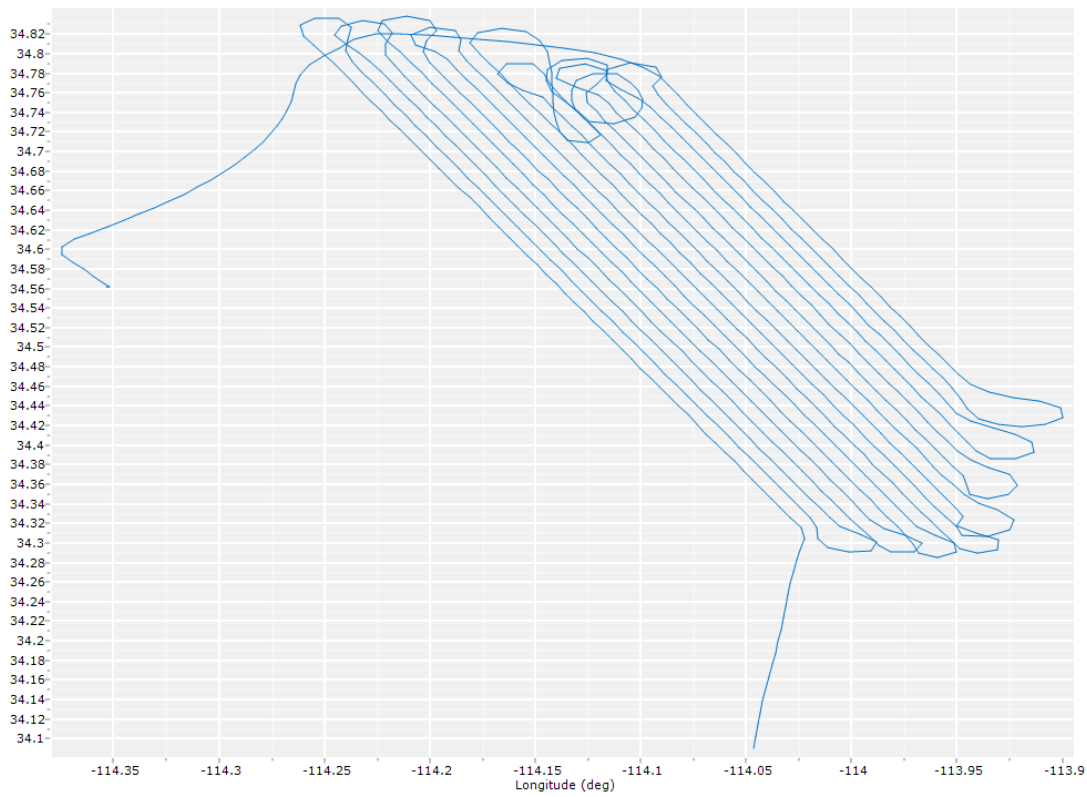


Body Angular Rate

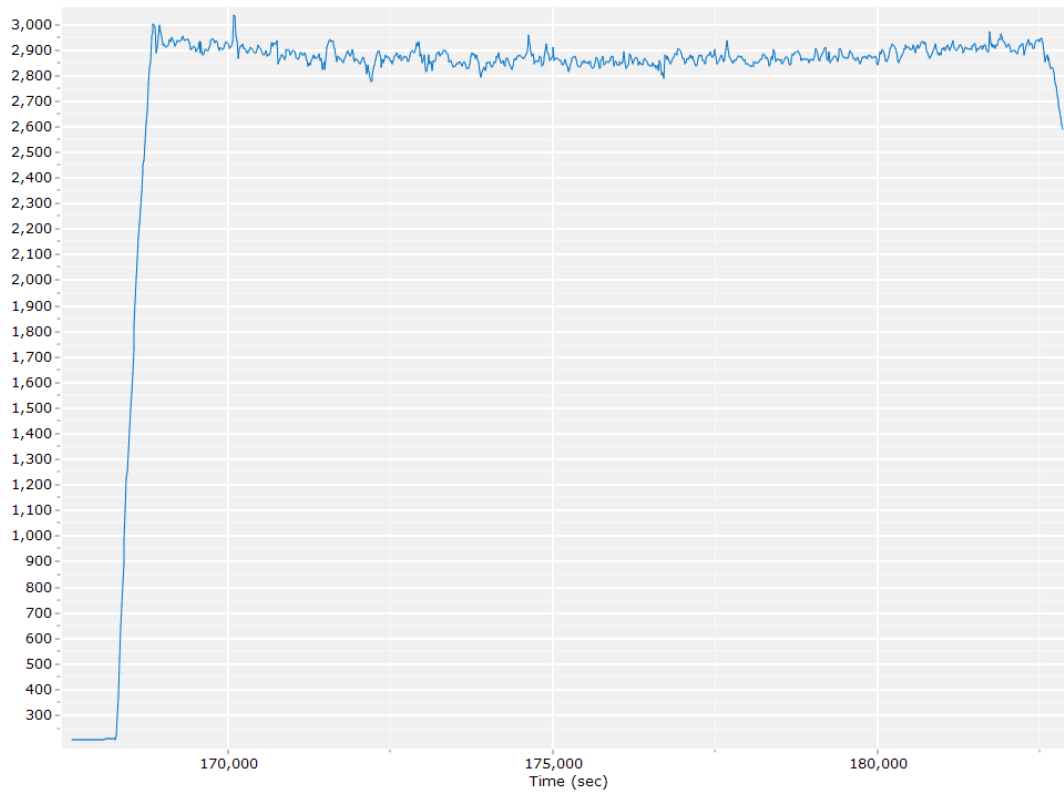


Forward Processed Trajectory Information

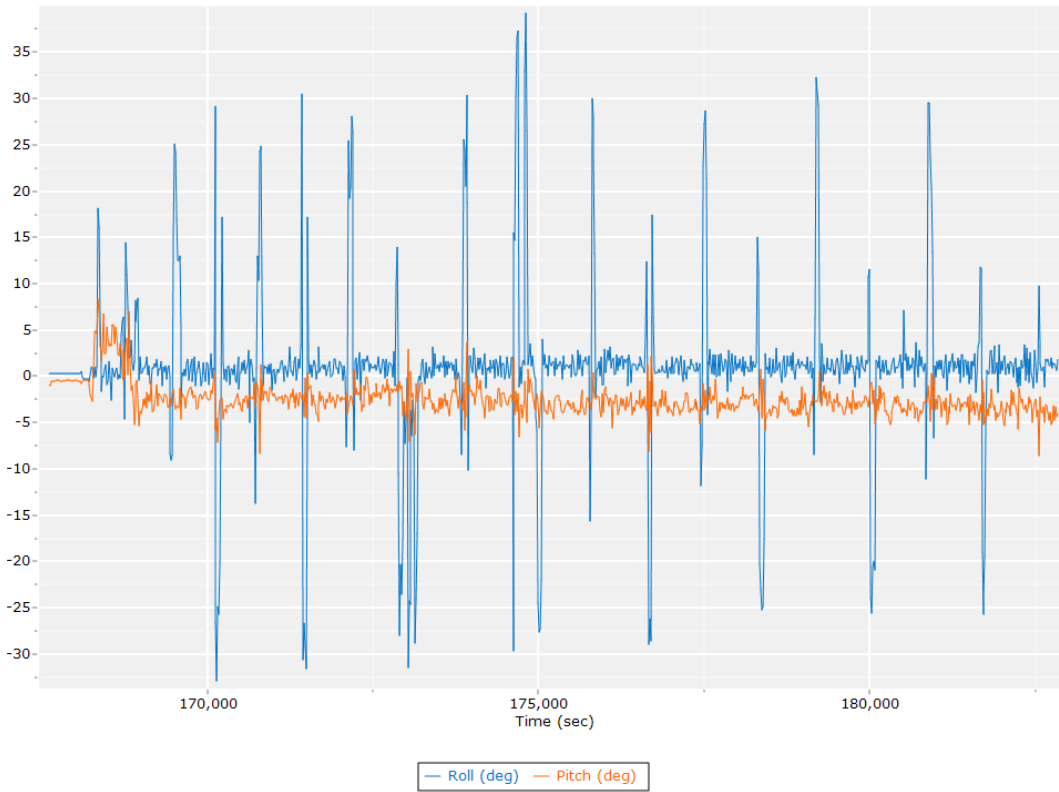
Top View



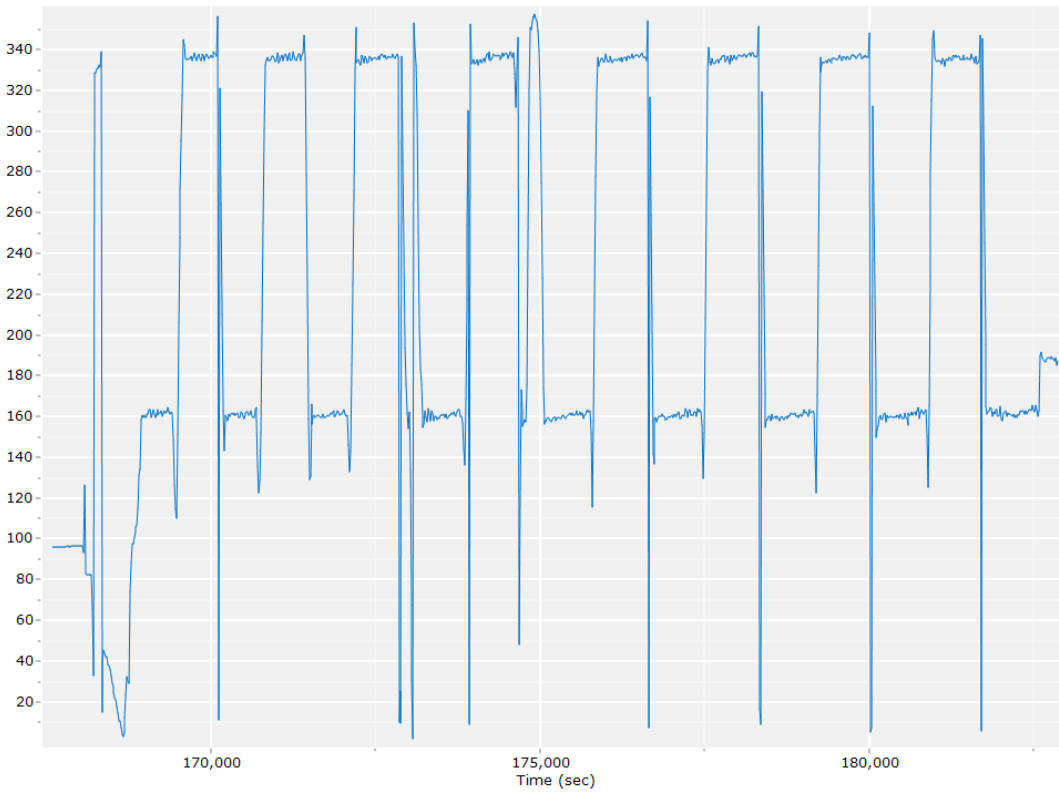
Altitude



Roll/Pitch



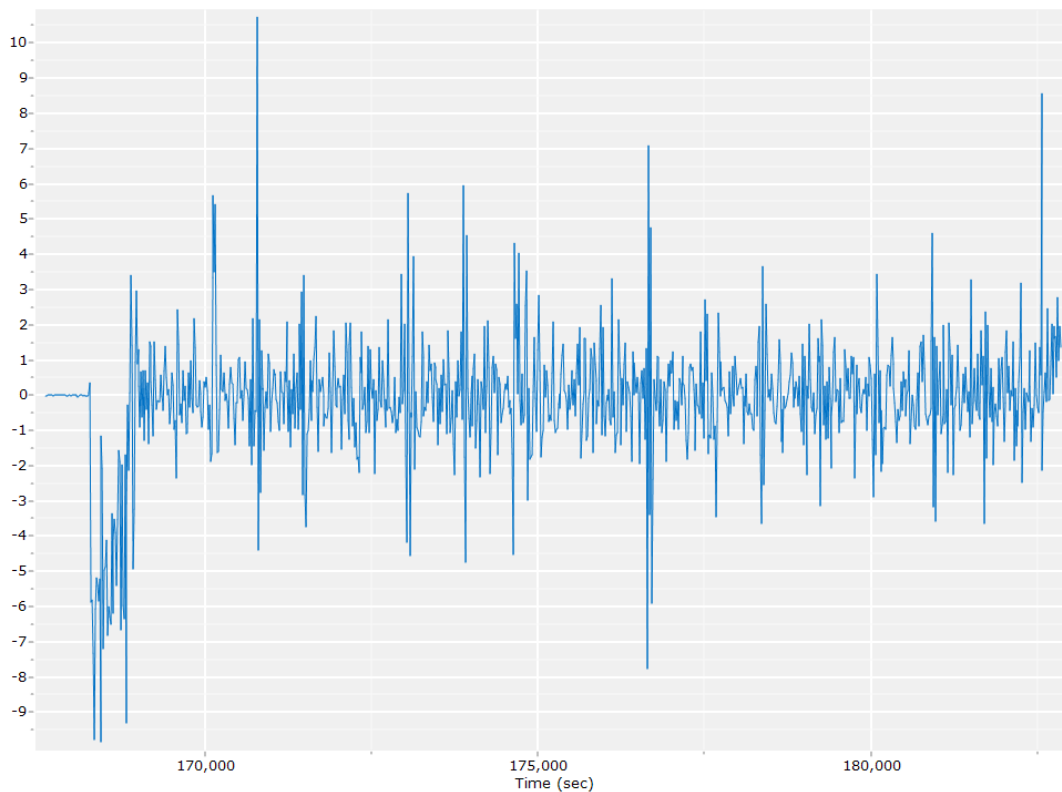
Heading



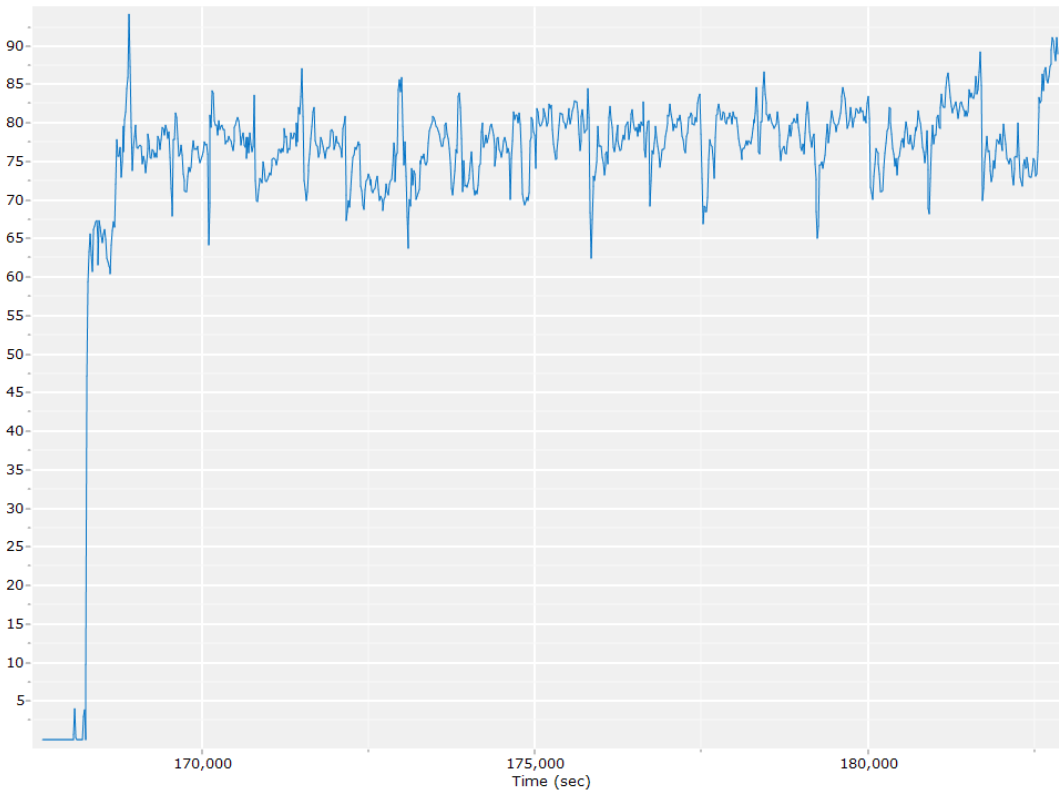
North/East Velocity



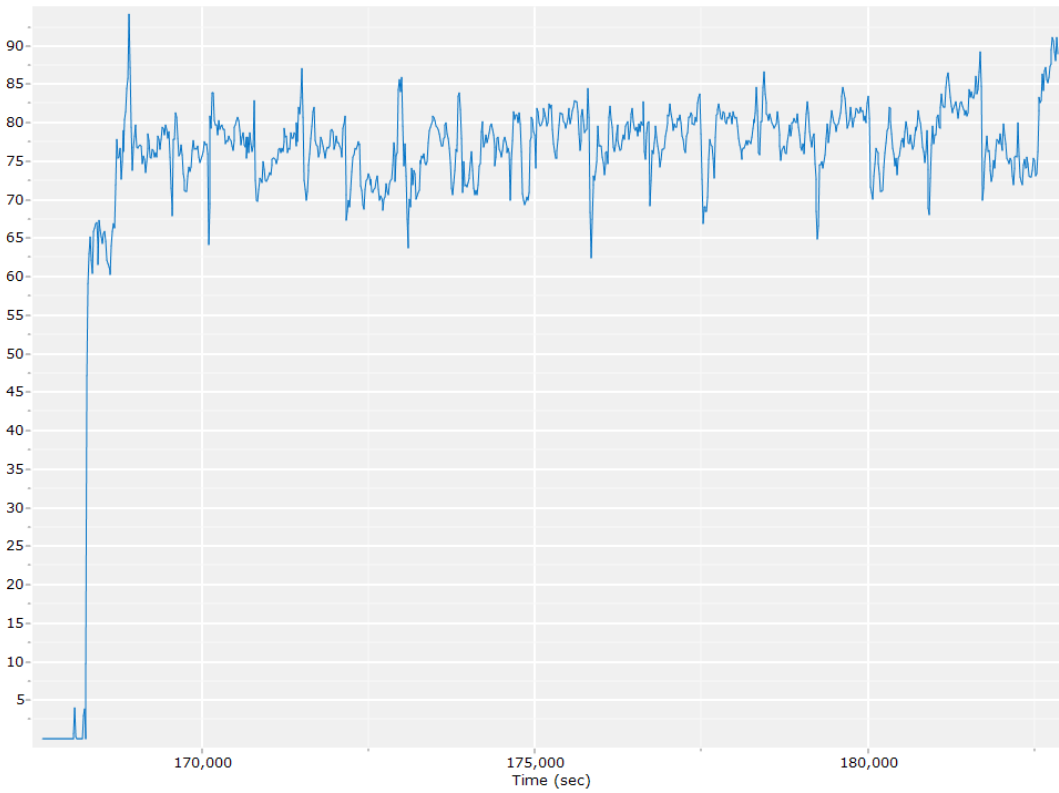
Down Velocity



Total Speed



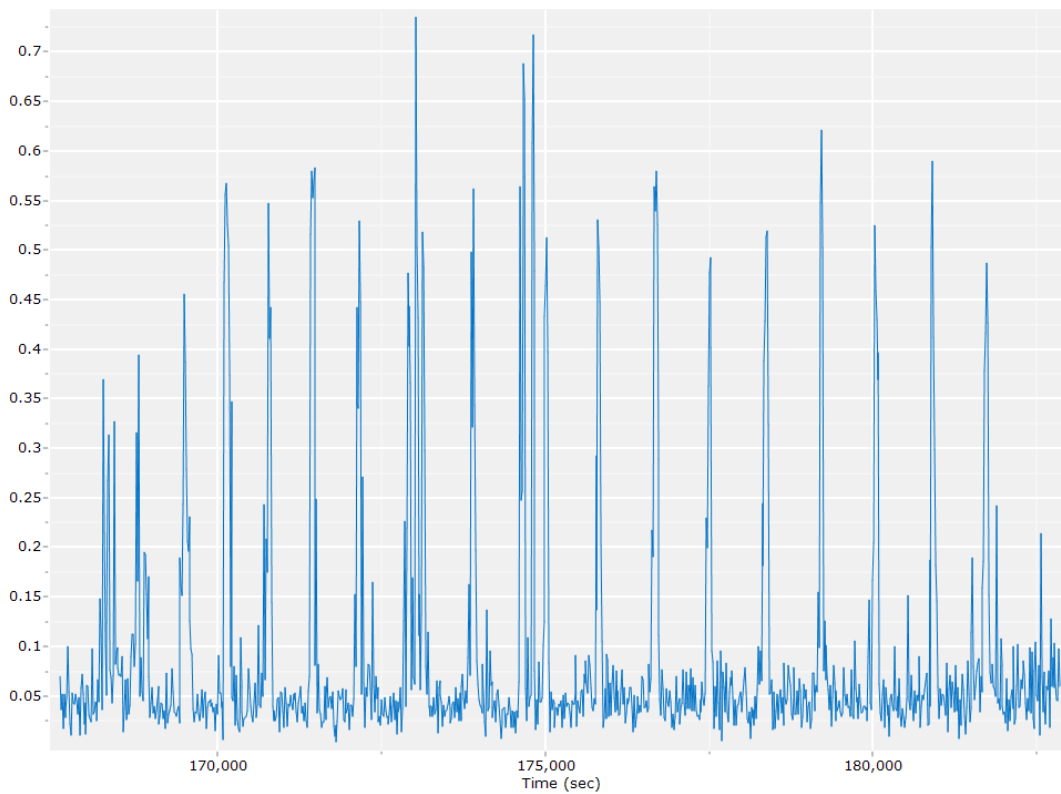
Ground Speed



Body Acceleration



Total Body Acceleration



Body Angular Rate



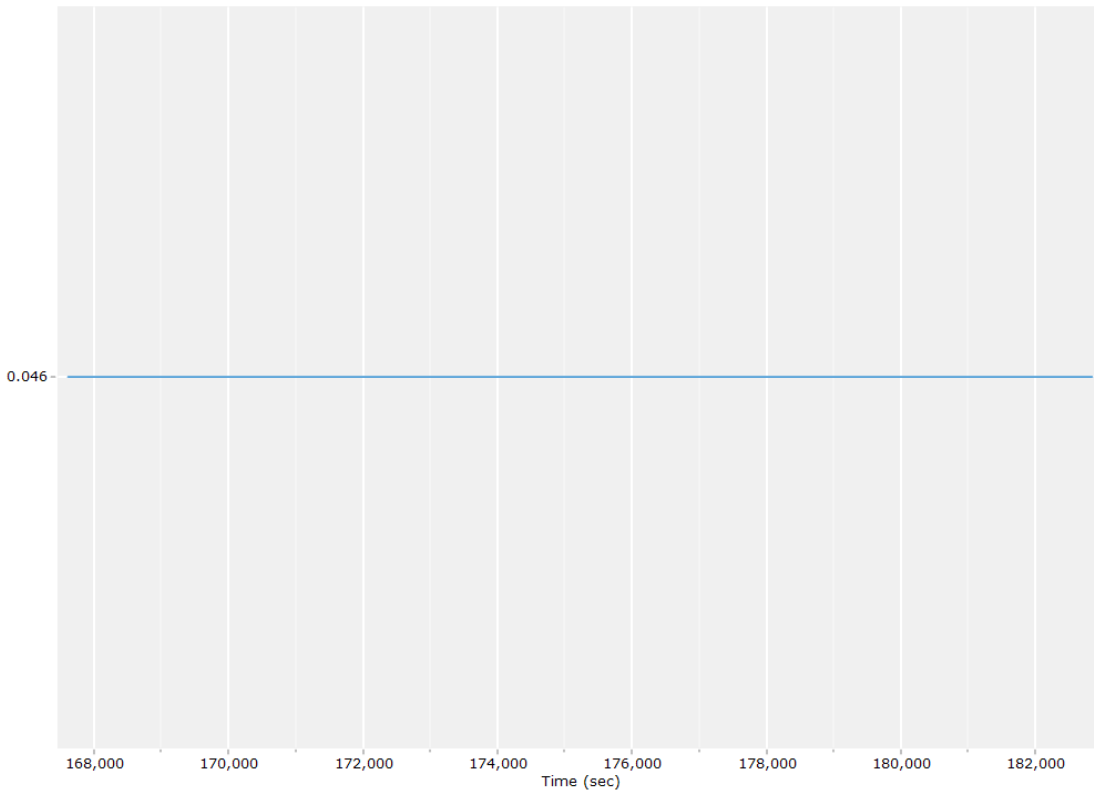
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	167394.000 (3/13/2023 10:29:54 PM)		
Processing end time	182860.000 (3/14/2023 2:47:40 AM)		
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)	0.046	-0.153	-0.934
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

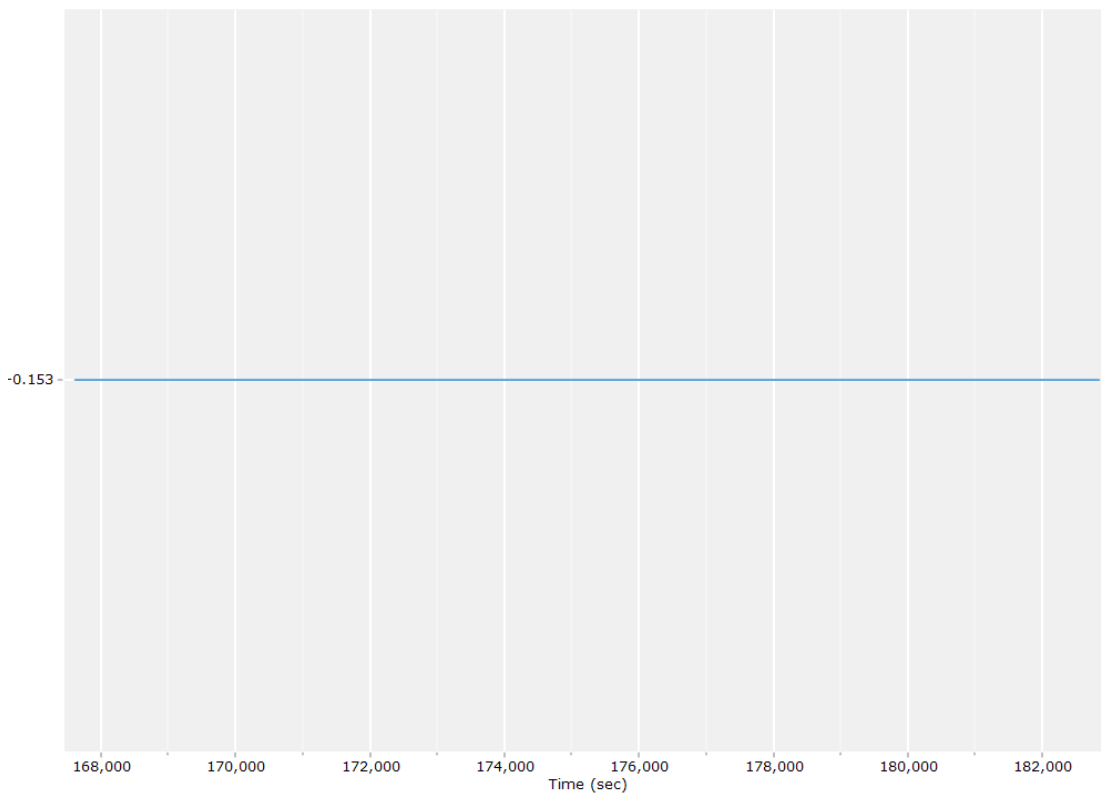
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

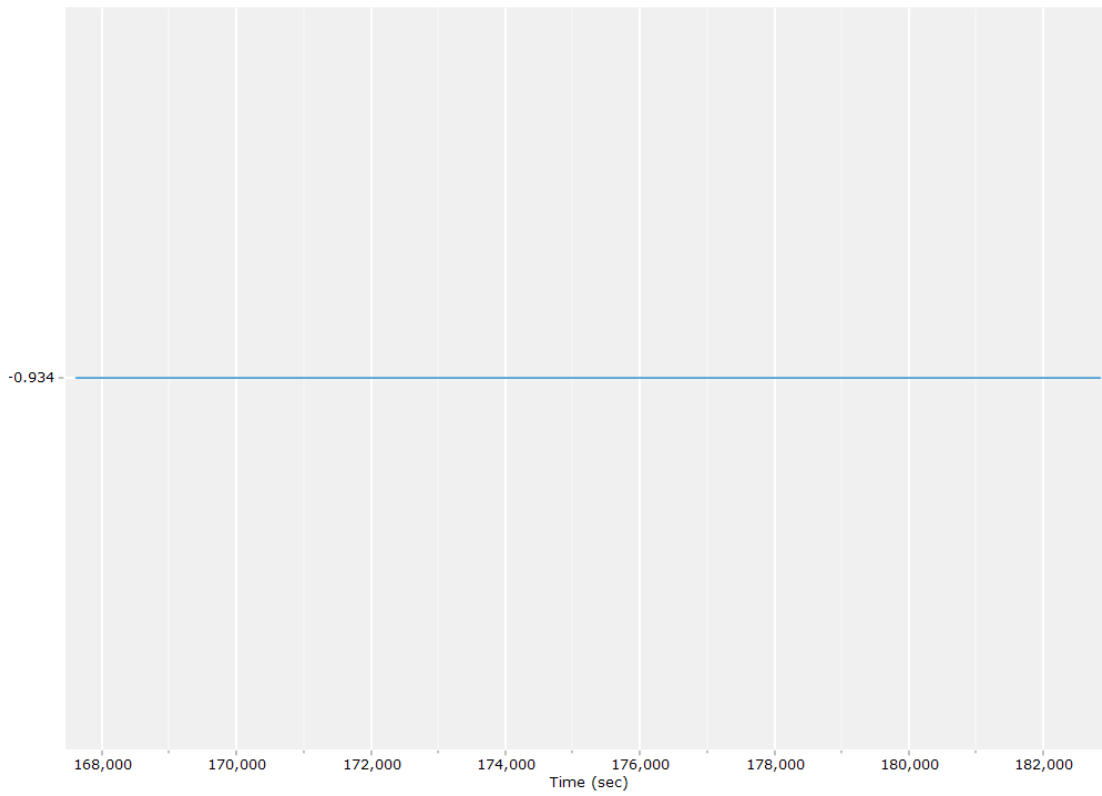
X Reference-Primary GNSS Lever Arm (m)



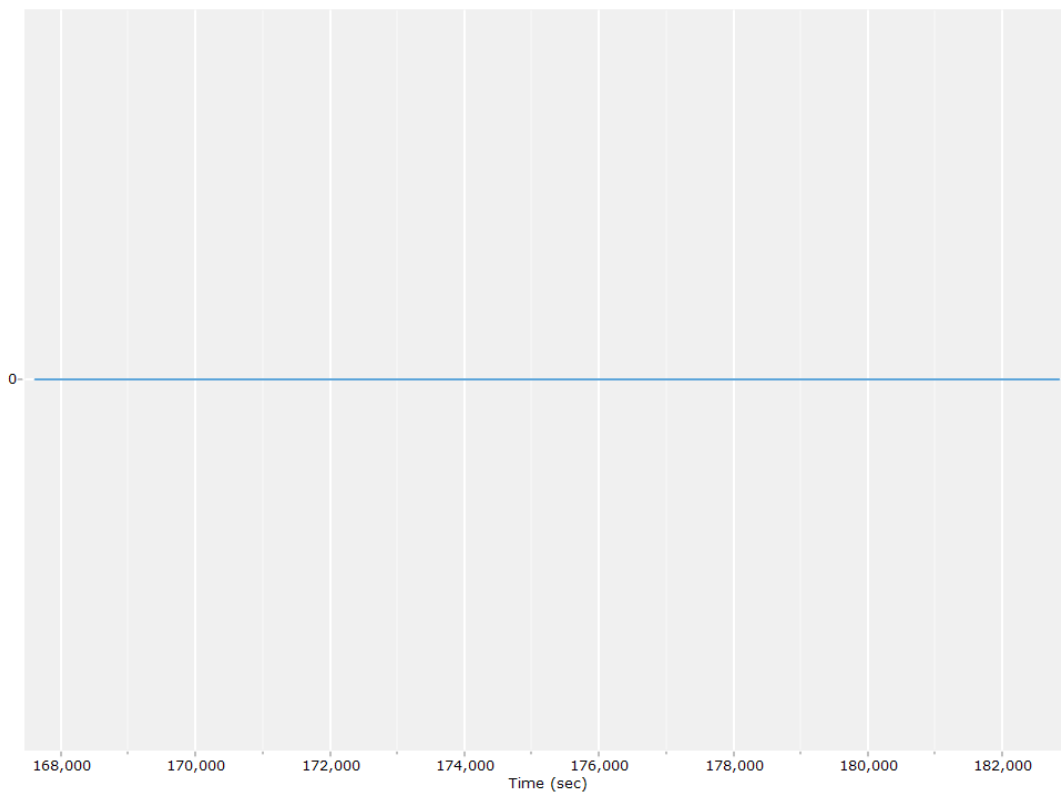
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



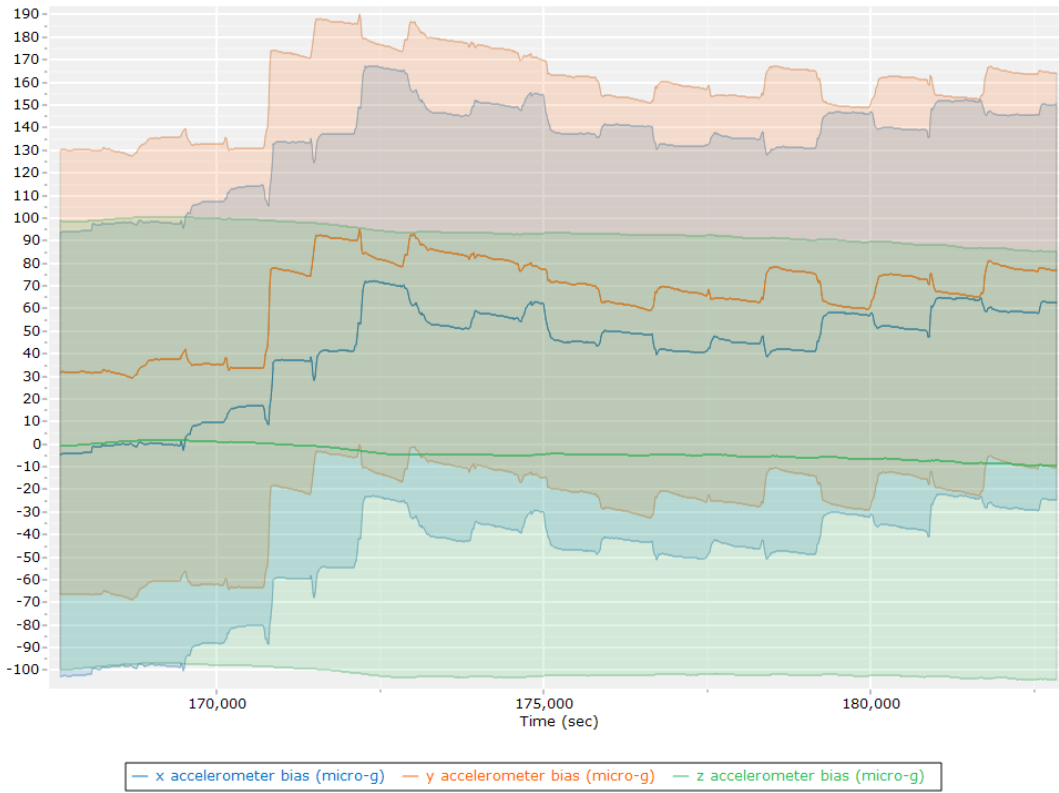
Reference-Primary GNSS Lever Arm Figure of Merit



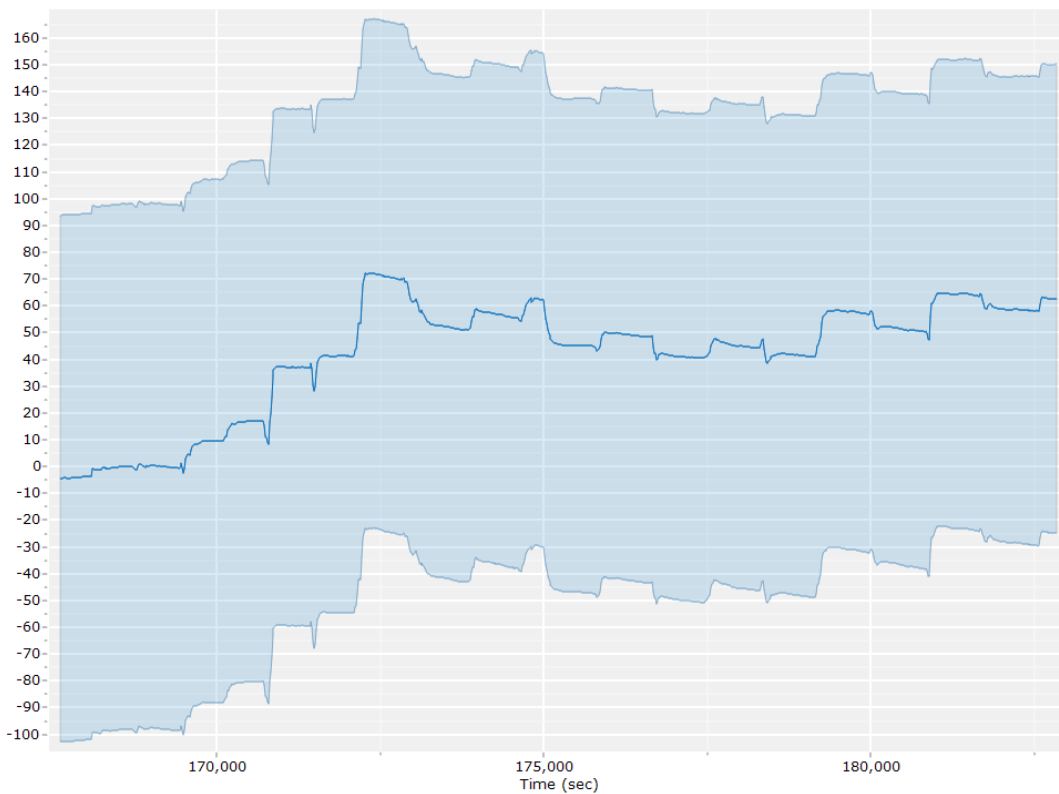
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

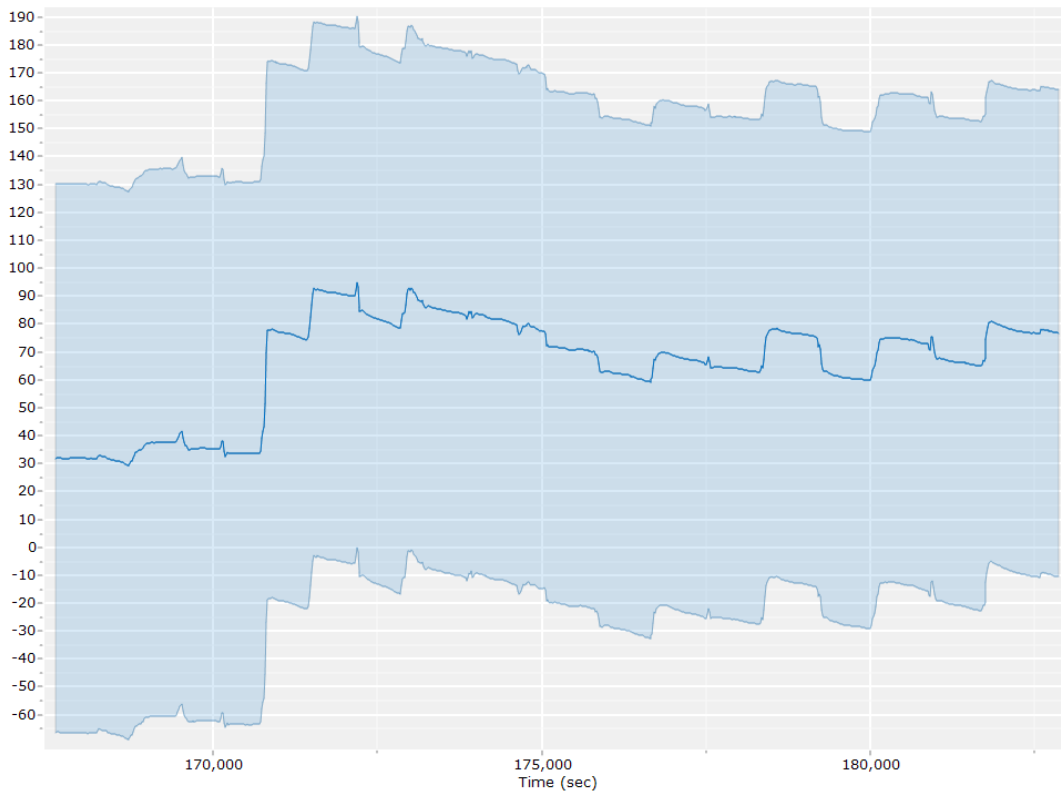
Accelerometer Bias (micro-g)



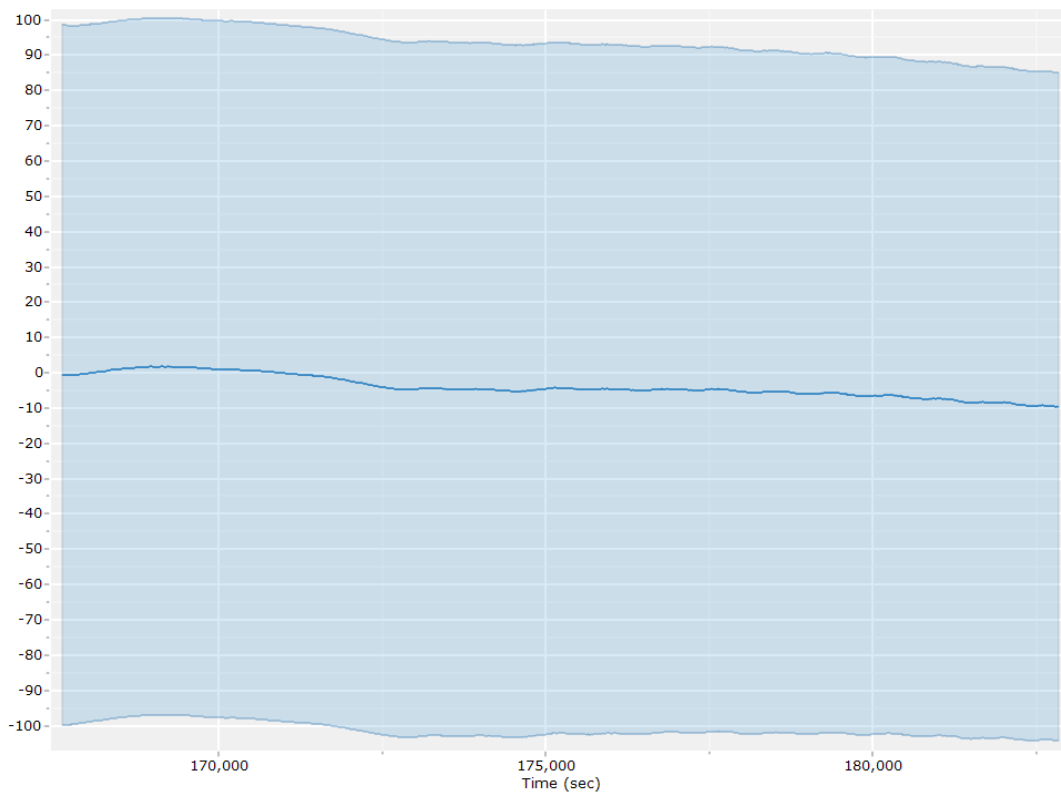
X Accelerometer Bias (micro-g)



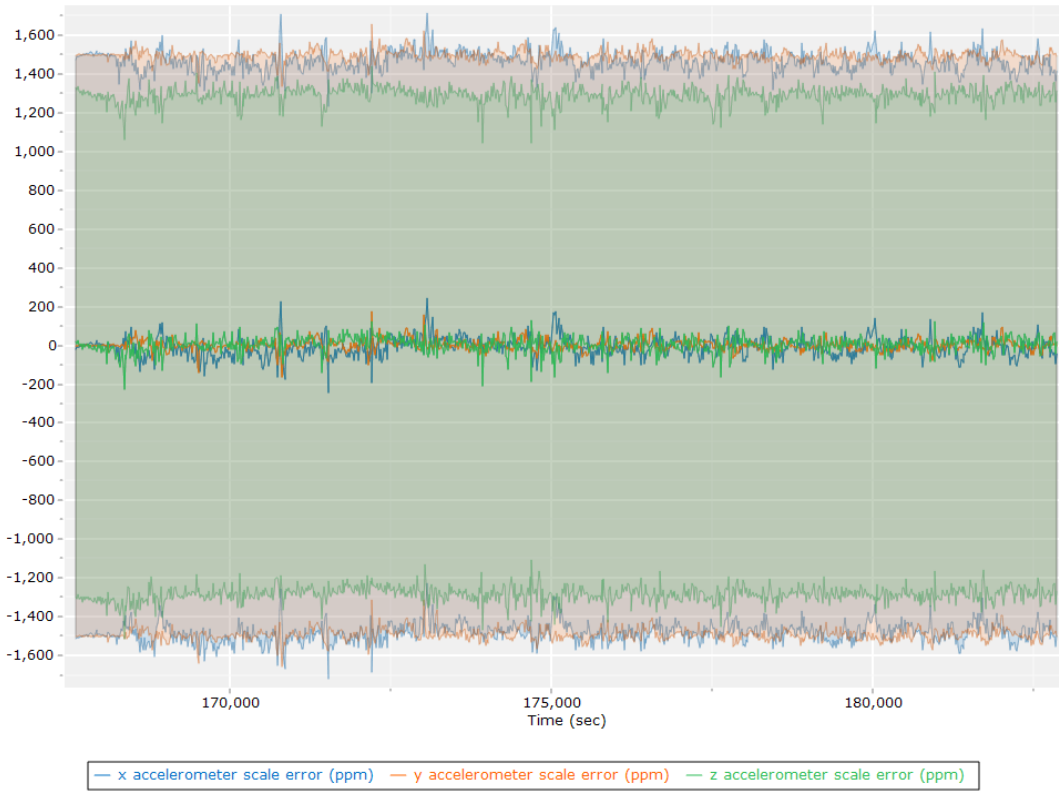
Y Accelerometer Bias (micro-g)



Z Accelerometer Bias (micro-g)



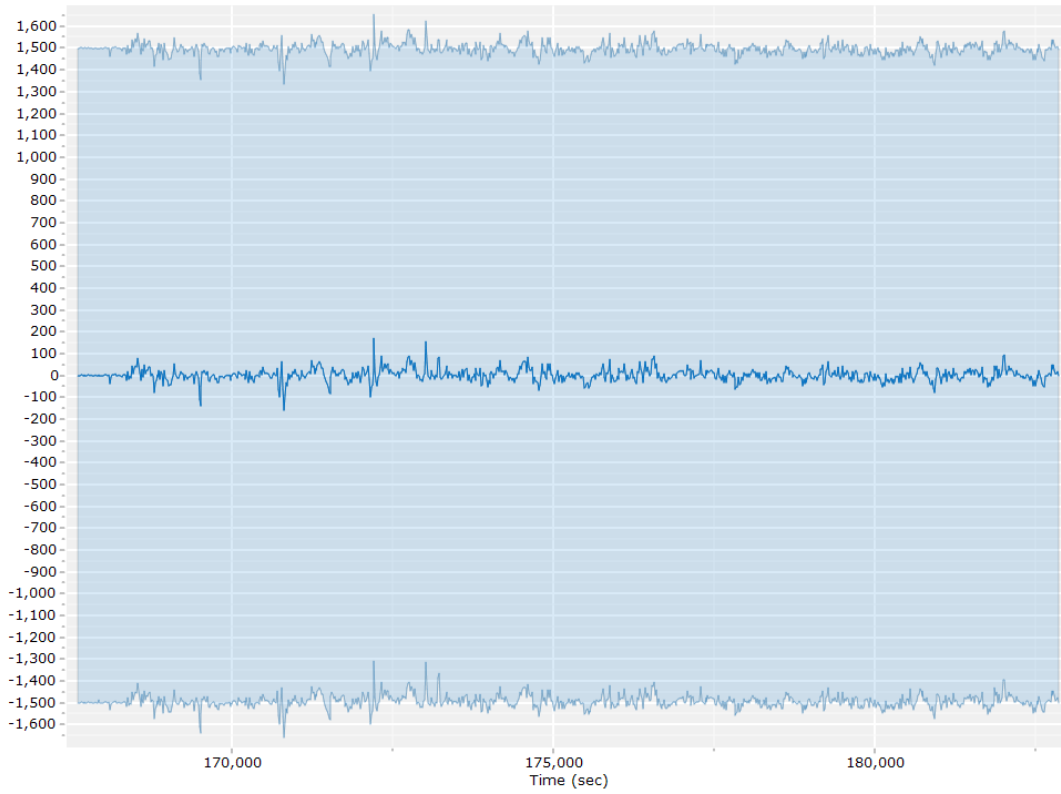
Accelerometer Scale Error (ppm)



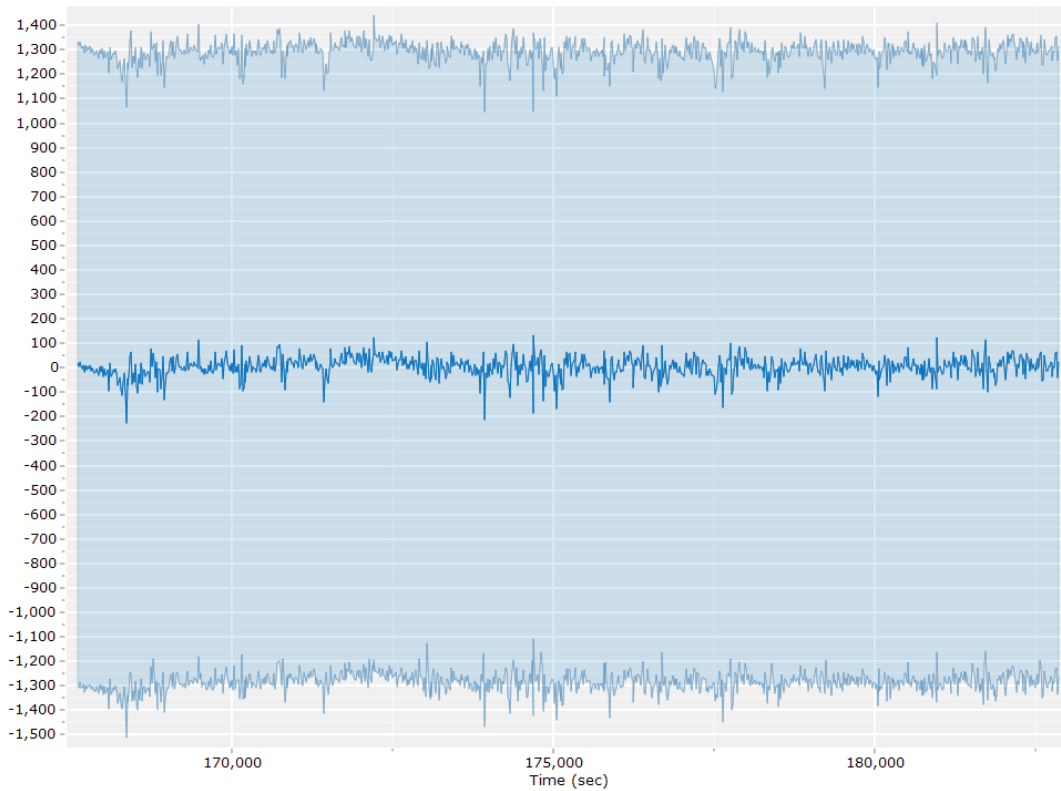
X Accelerometer Scale Error (ppm)



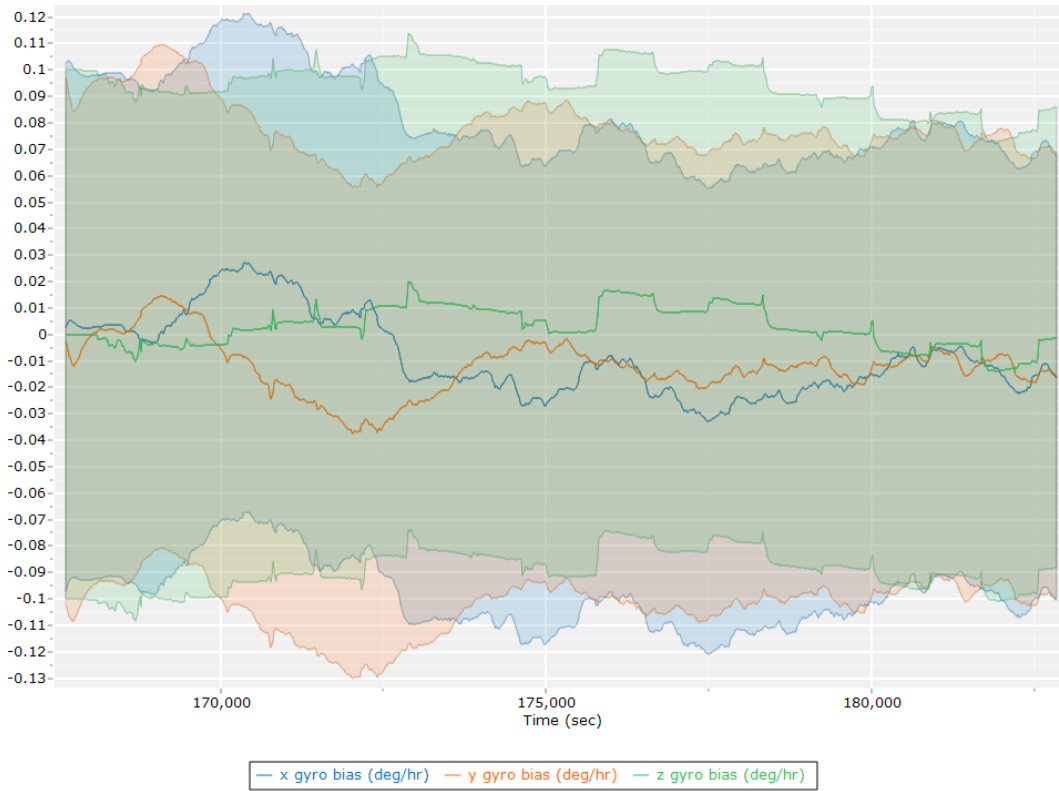
Y Accelerometer Scale Error (ppm)



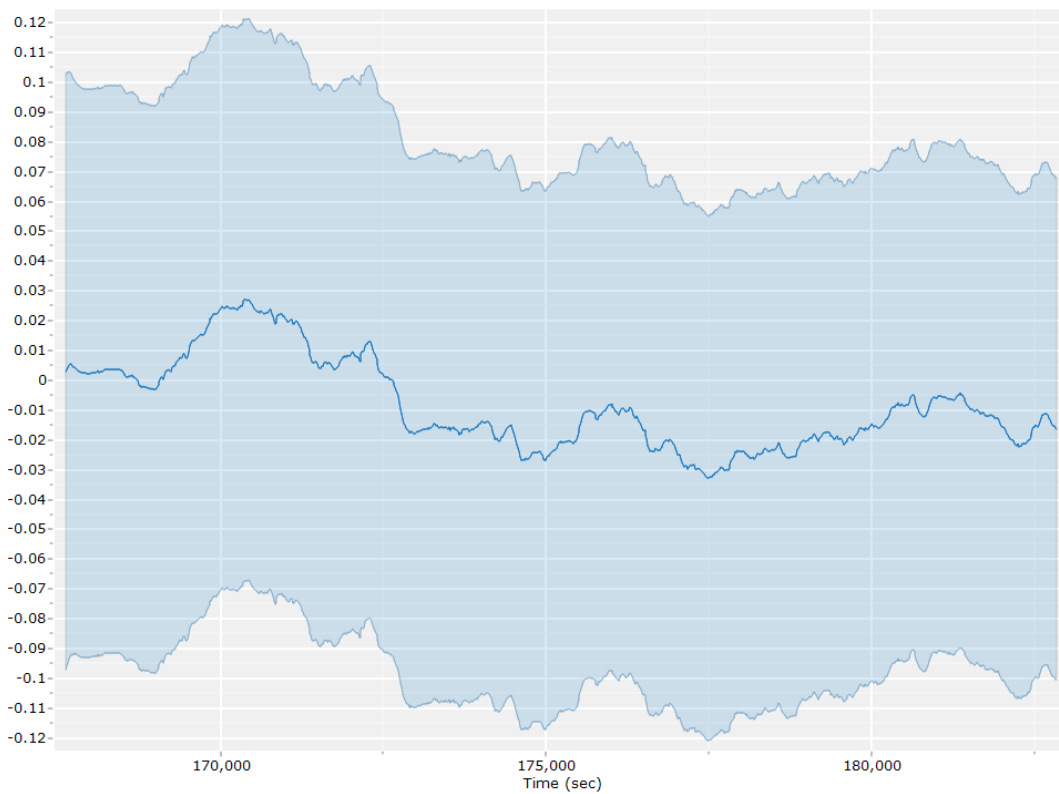
Z Accelerometer Scale Error (ppm)



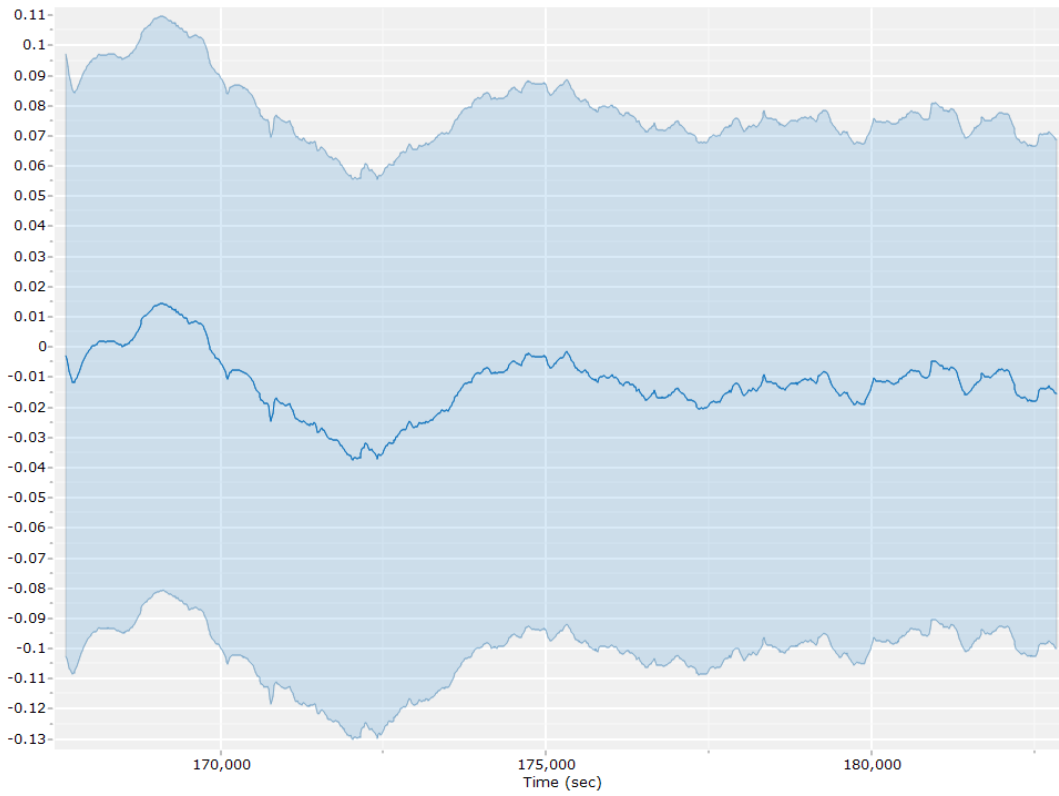
Gyro Bias (deg/h)



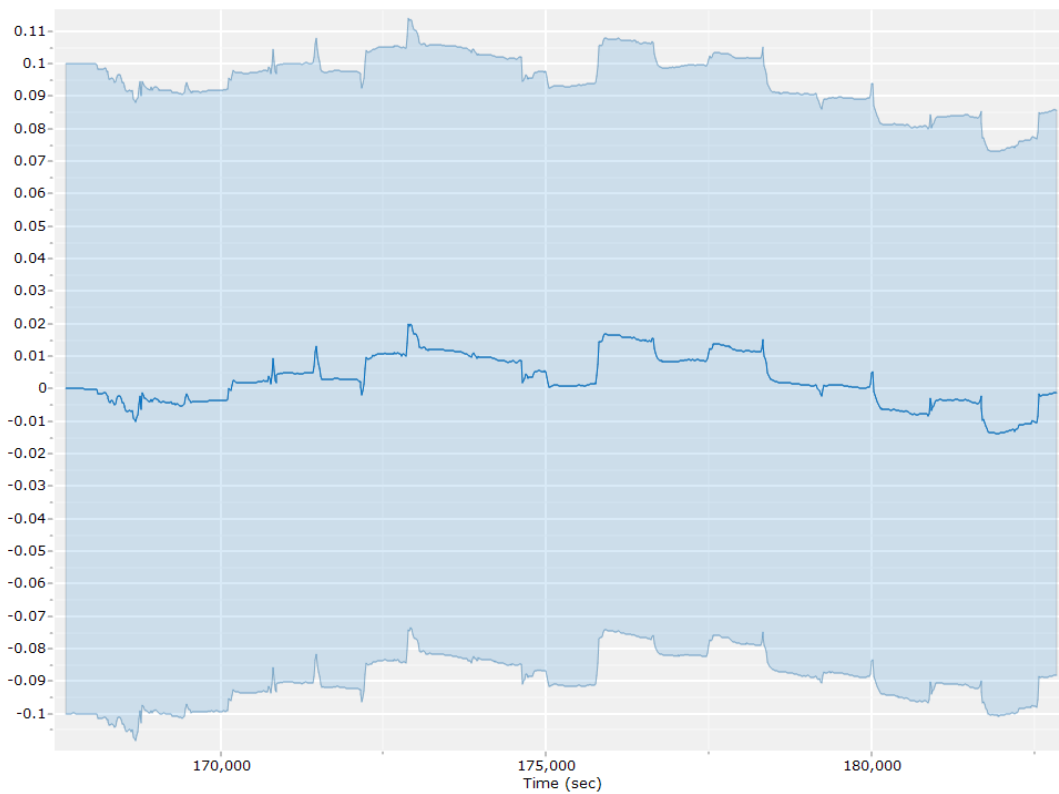
X Gyro Bias (deg/h)



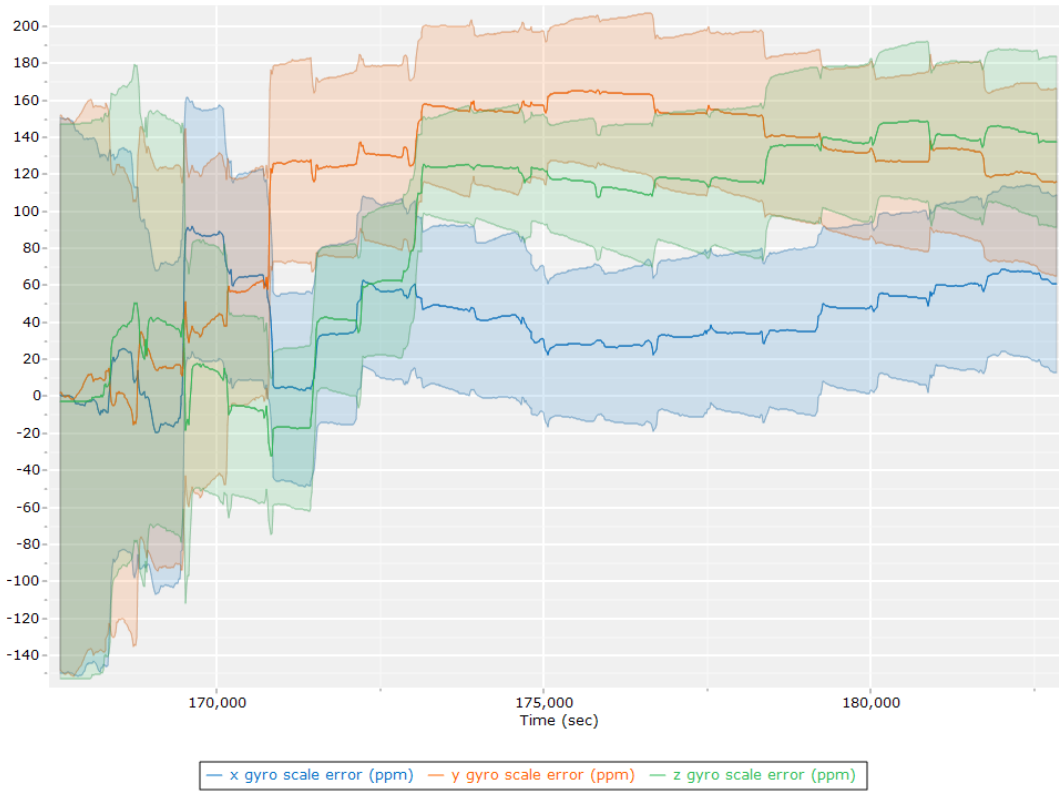
Y Gyro Bias (deg/h)



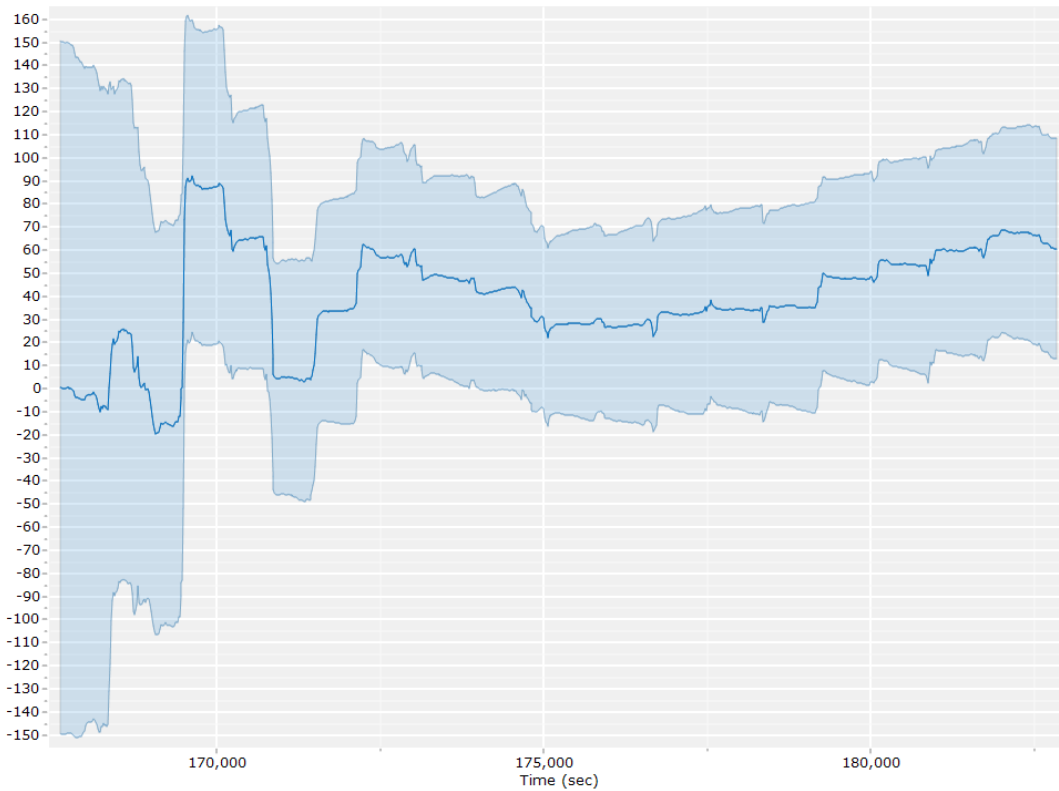
Z Gyro Bias (deg/h)



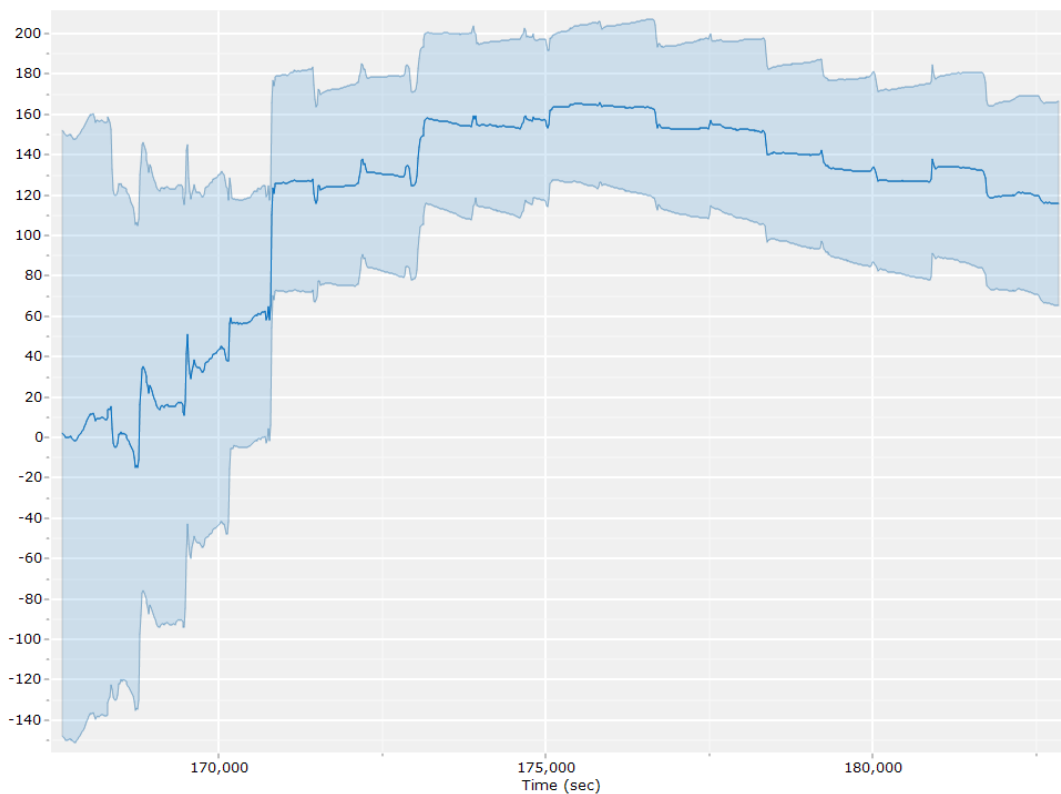
Gyro Scale Error (ppm)



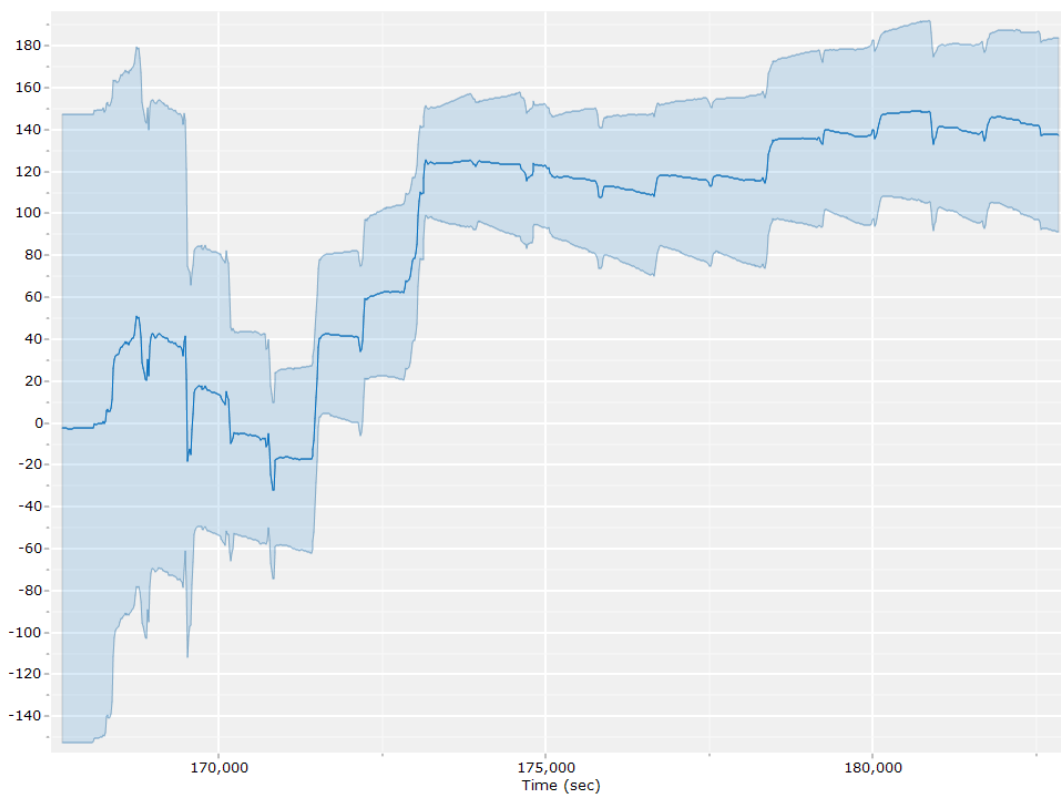
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

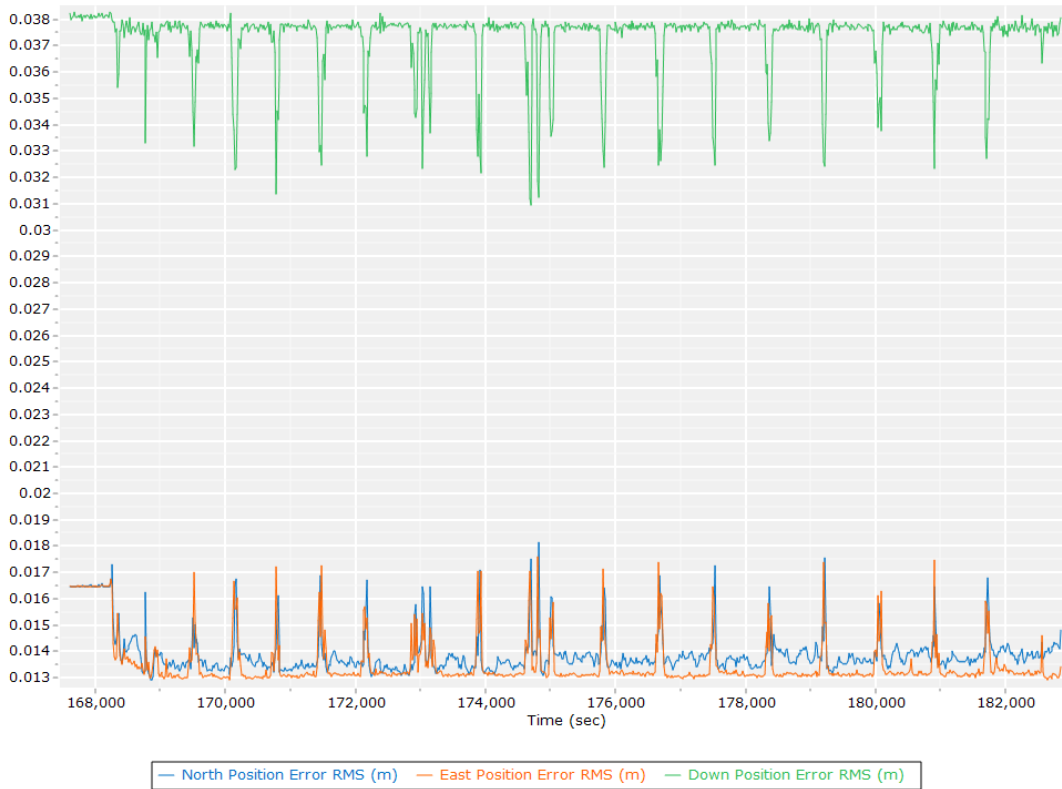


Z Gyro Scale Error (ppm)

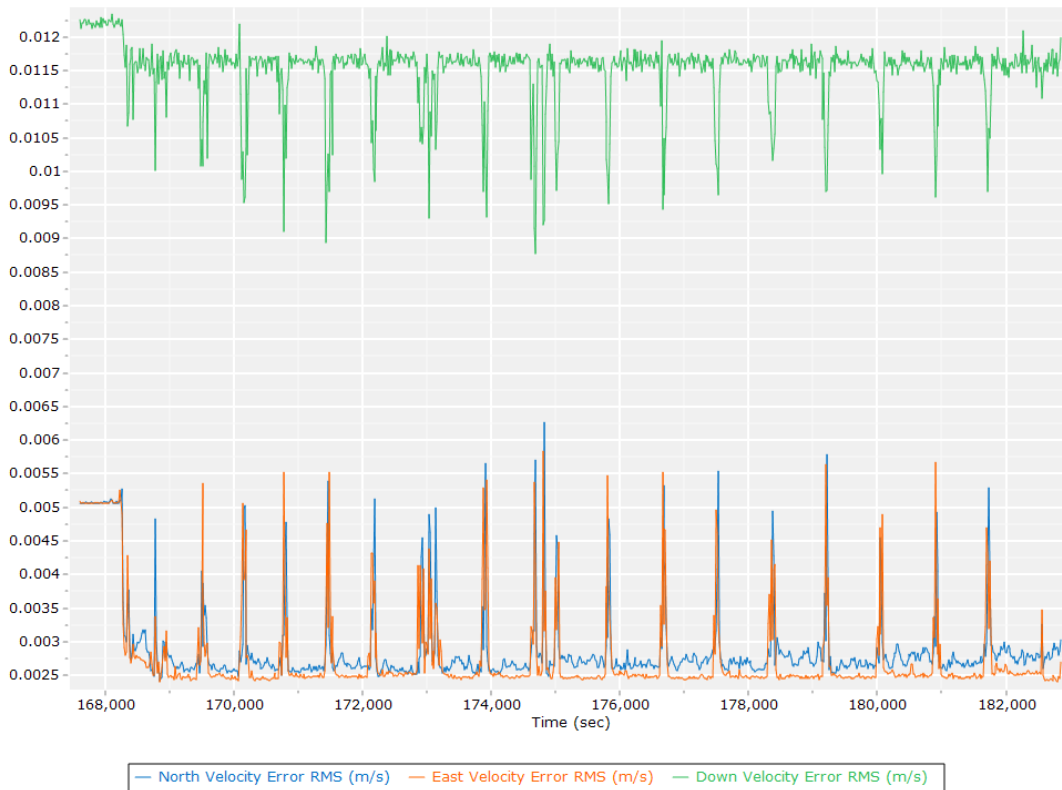


Smoothed Performance Metrics

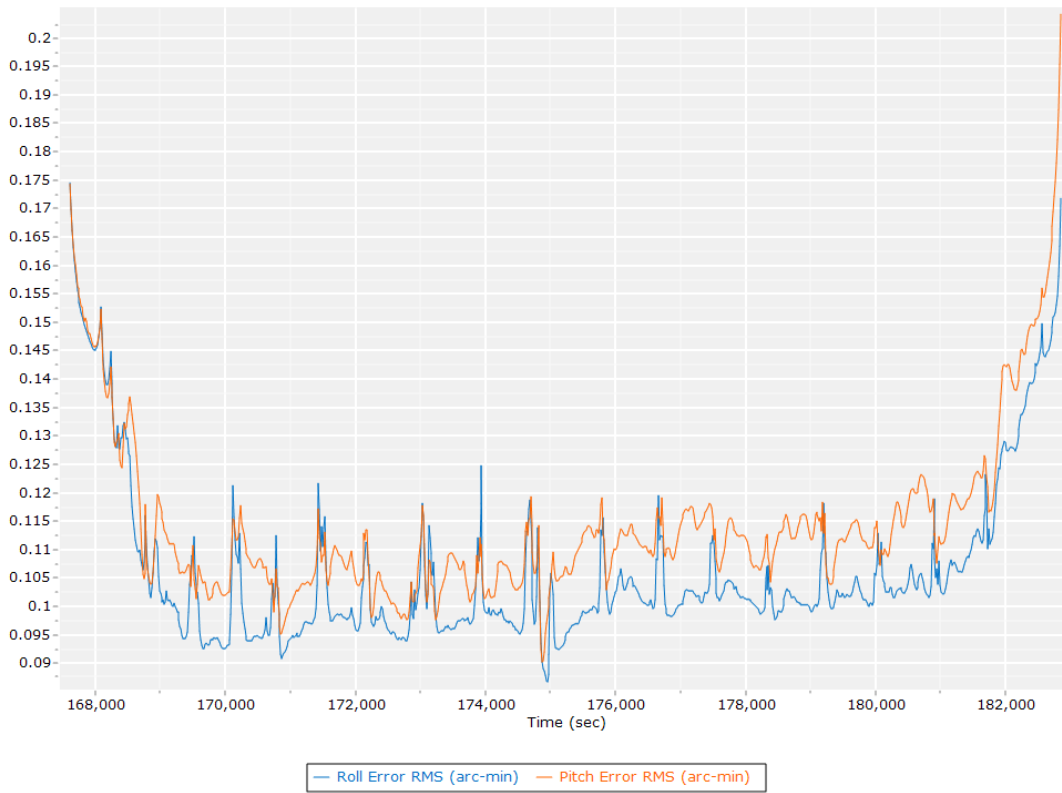
Position Error RMS (m)



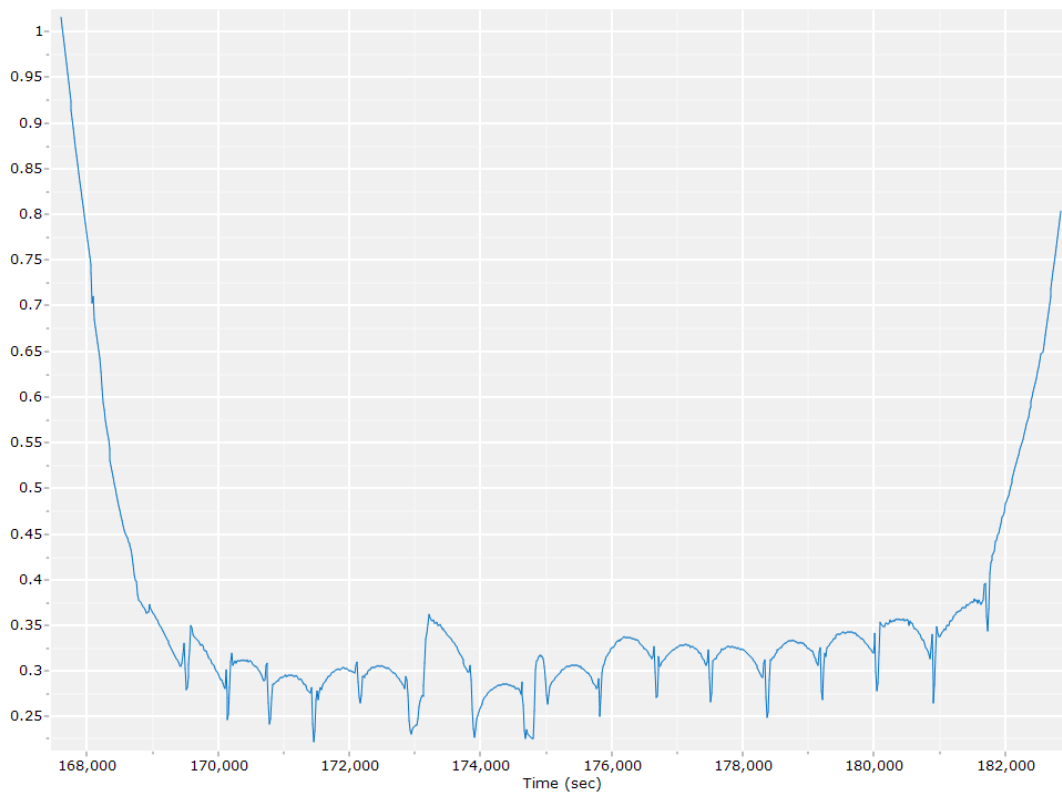
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

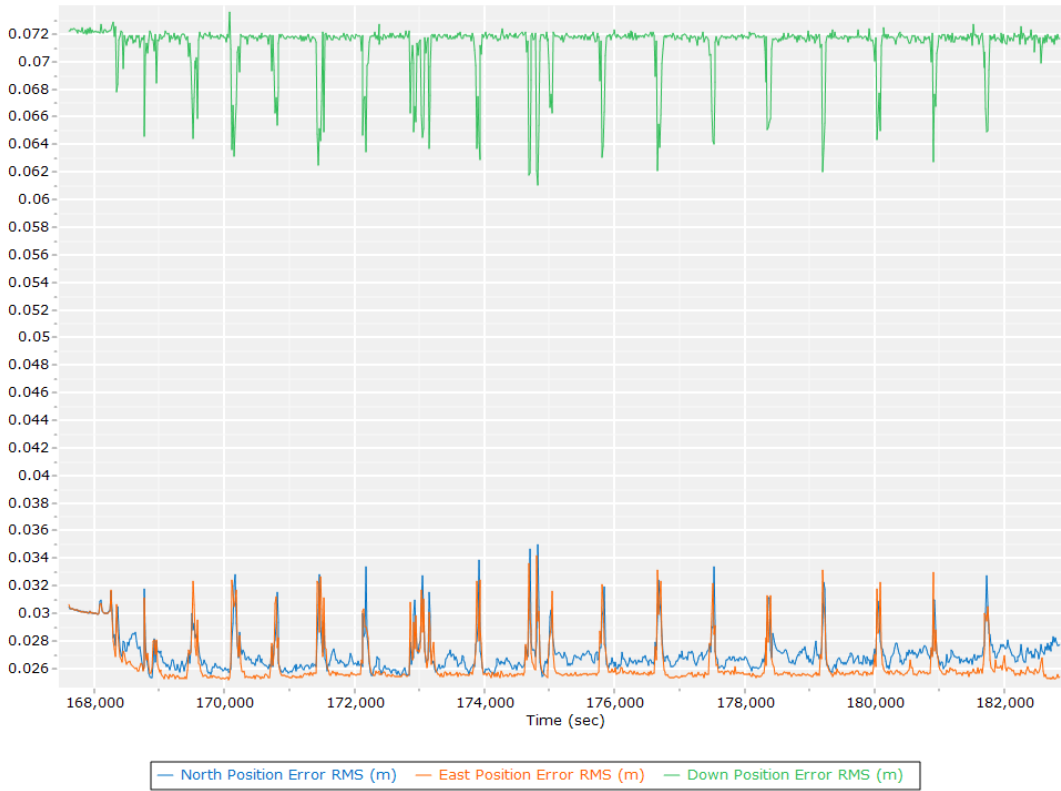


Heading Error RMS (arc-min)

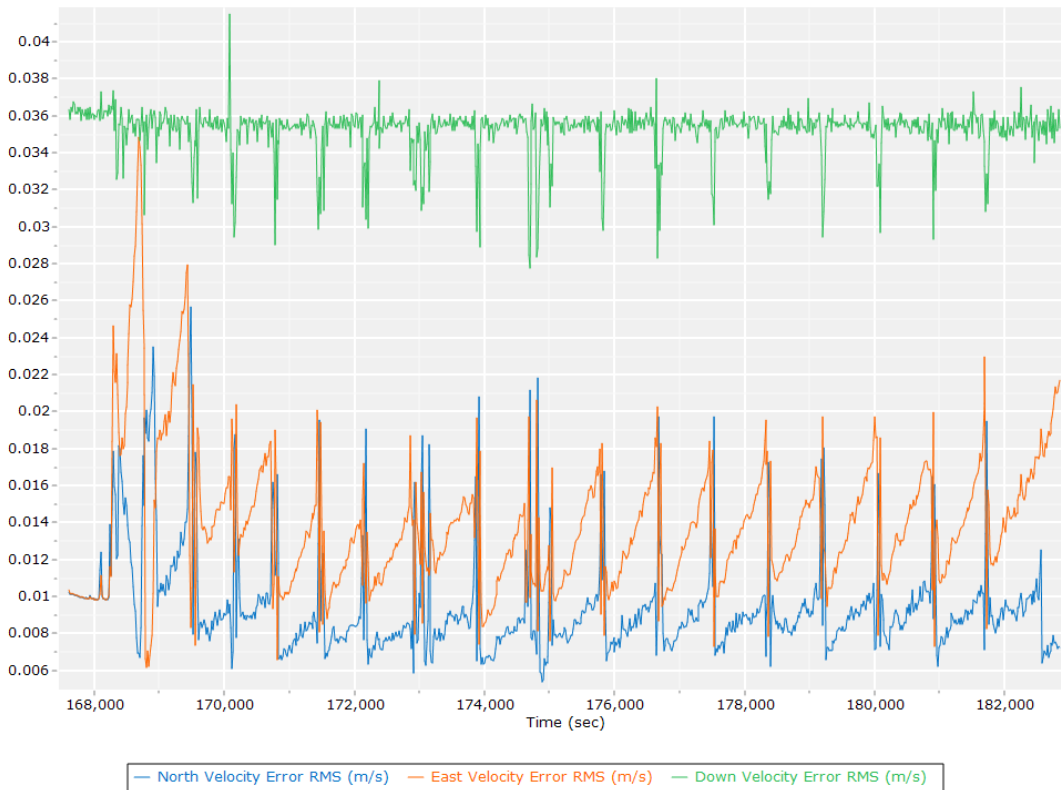


Forward Processed Performance Metrics

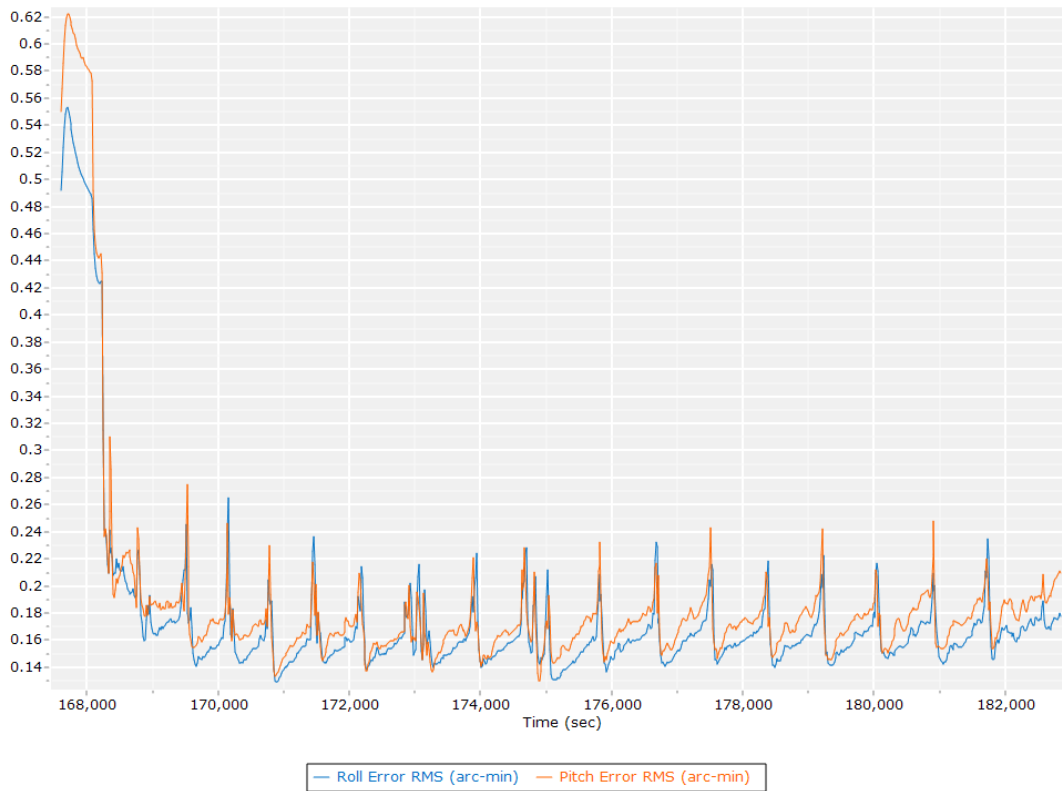
Position Error RMS (m)



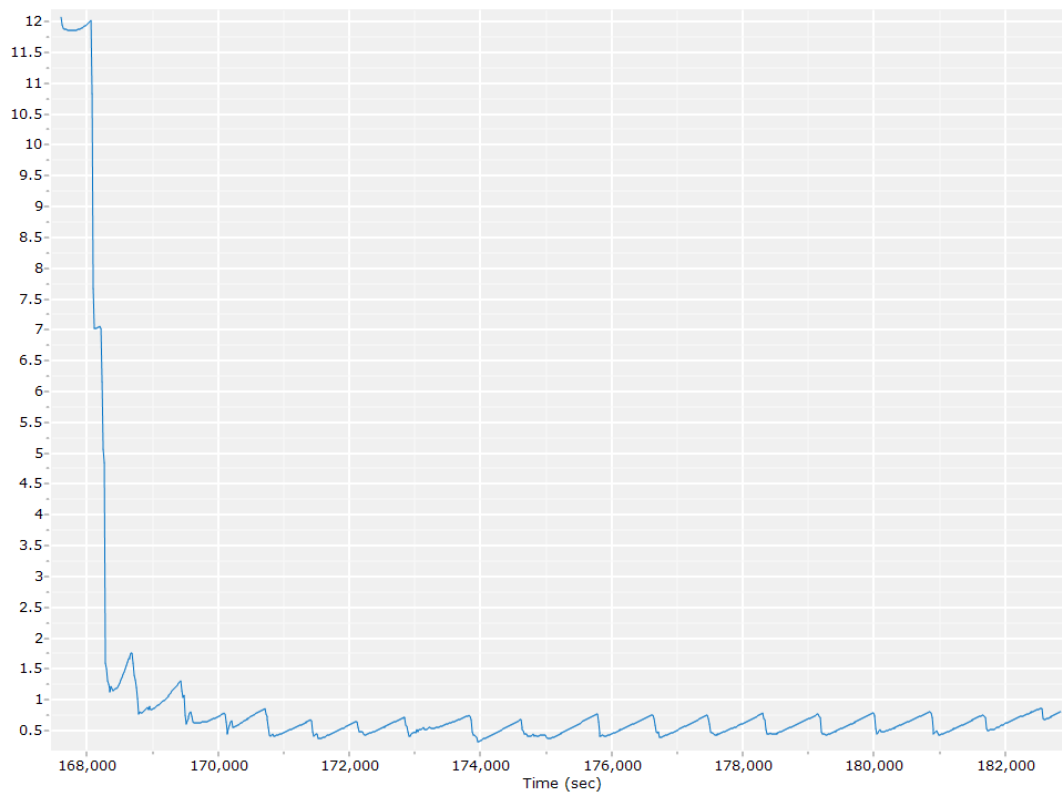
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

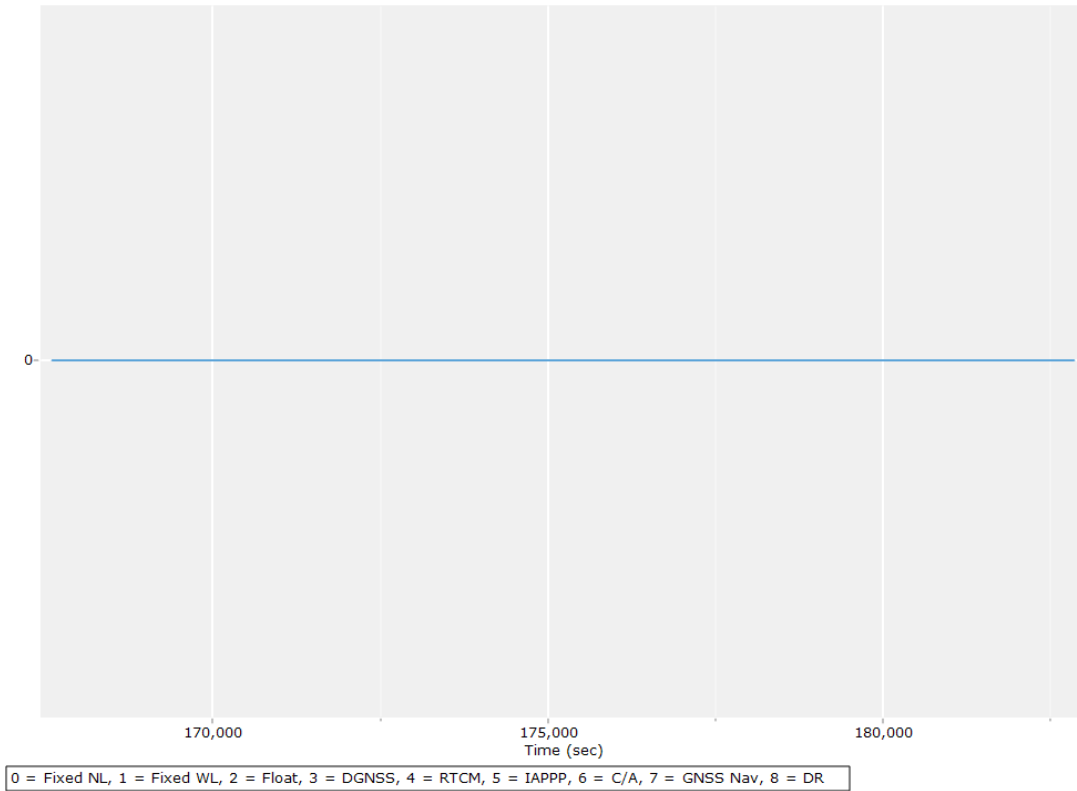


Heading Error RMS (arc-min)

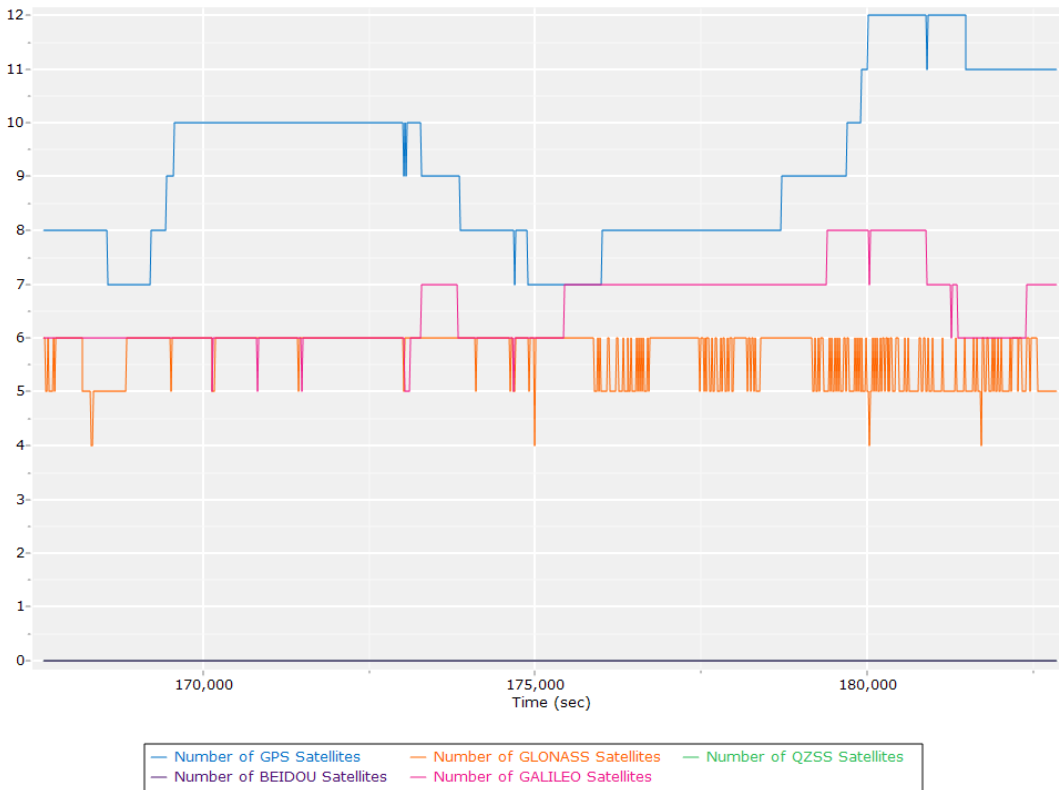


Forward Processed Solution Status

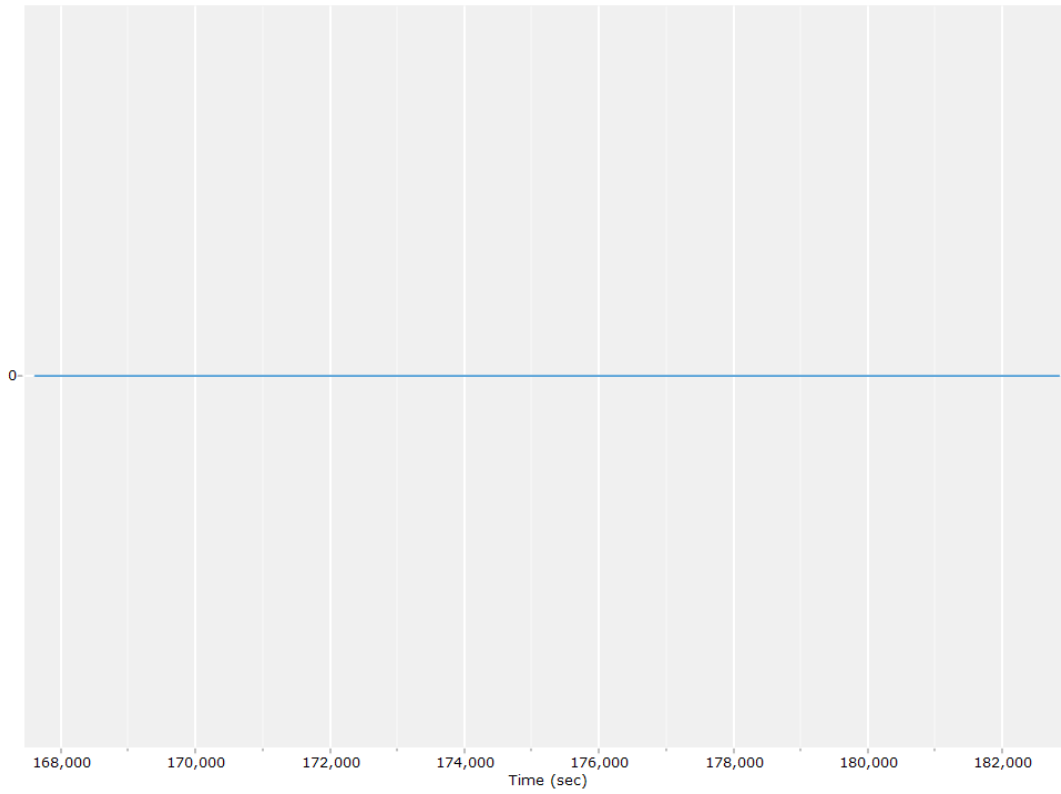
Processing Mode



Number of Satellites



Baseline Length



General Information

Mission Information

Project name	23022_Mohave_QL1_20230314_T2L1_pprtx
Processing date	2023-03-15 17:33:41
Mission date	2023-03-14 14:42:57
Mission duration	04:47:49.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey5.pos	POS Data

Input Files

File Name	File Type
Ephm0730.23g	GLONASS Broadcast Ephemeris
Ephm0730.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey5.pos		
Last raw data file	survey5.pos		
Start GPS week	2253		
Start time	225776.820 (3/14/2023 2:42:56 PM)		
End time	243201.060 (3/14/2023 7:33:21 PM)		
Start of fine alignment	225941.304 (3/14/2023 2:45:41 PM)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
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

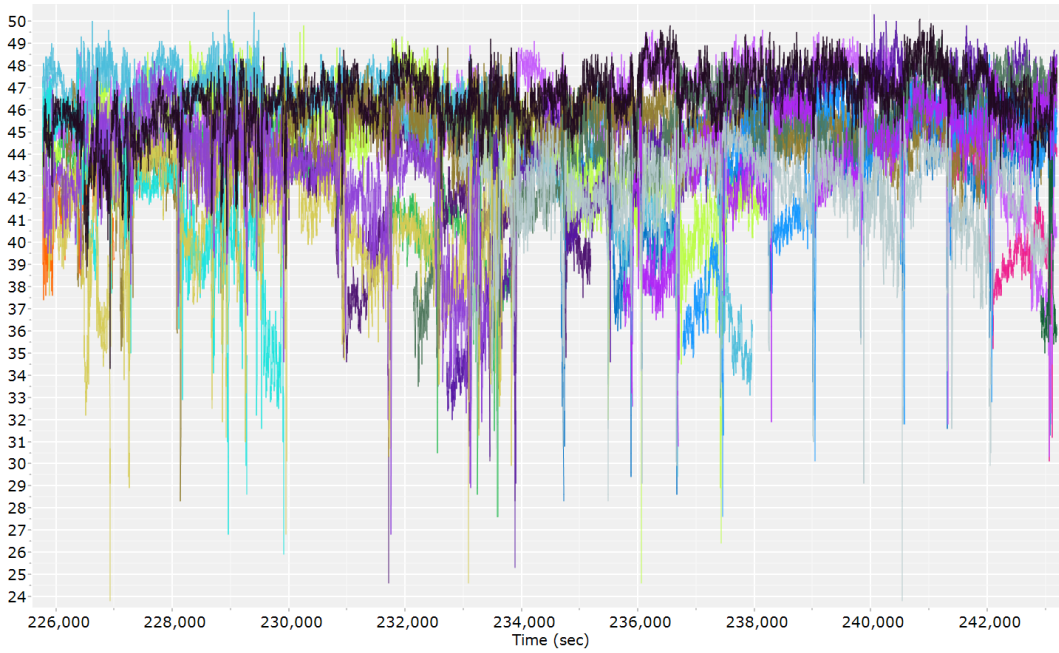
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	3484005
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

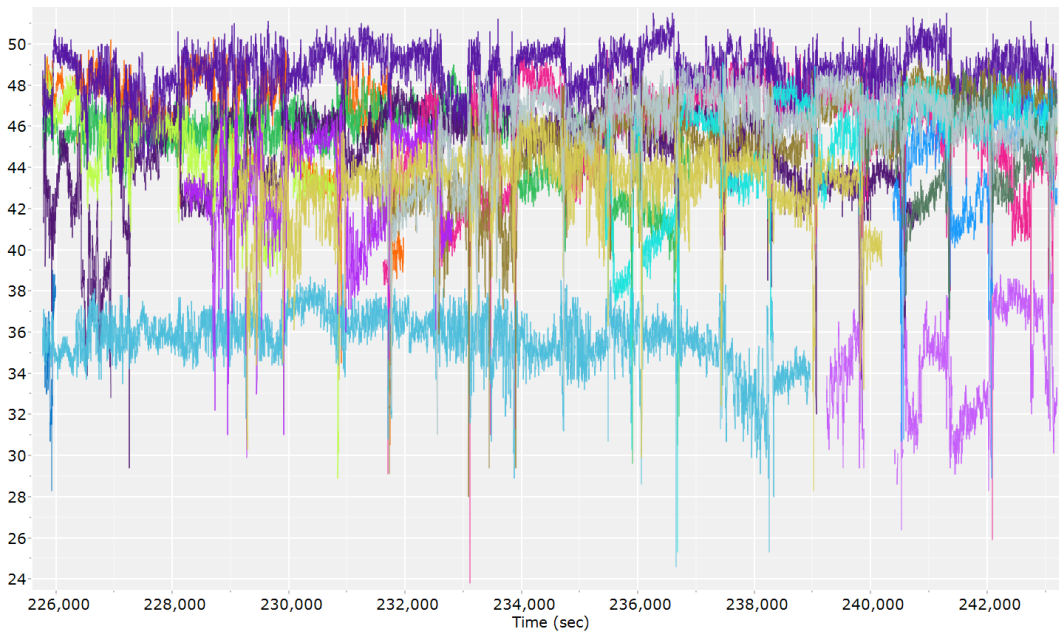


GPS L1 SNR



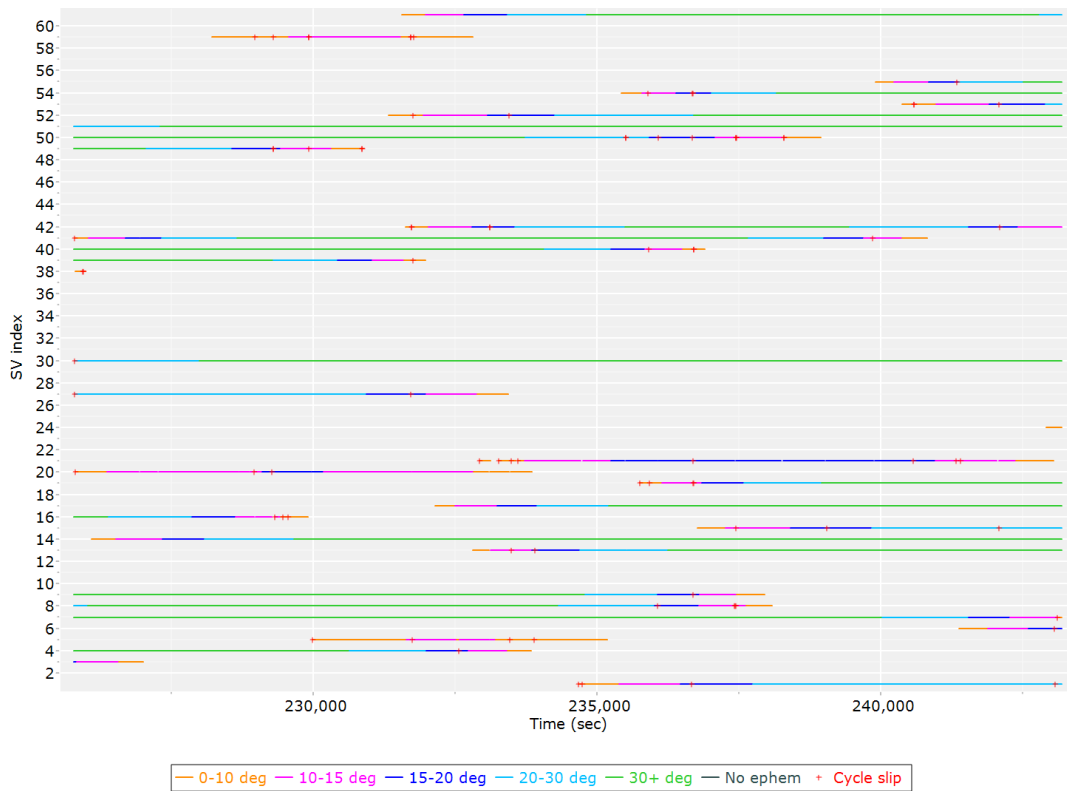
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 01 L1 SNR (dB/Hz) | GPS PRN 03 L1 SNR (dB/Hz) | GPS PRN 04 L1 SNR (dB/Hz) | GPS PRN 05 L1 SNR (dB/Hz) |
| GPS PRN 06 L1 SNR (dB/Hz) | GPS PRN 07 L1 SNR (dB/Hz) | GPS PRN 08 L1 SNR (dB/Hz) | GPS PRN 09 L1 SNR (dB/Hz) |
| GPS PRN 13 L1 SNR (dB/Hz) | GPS PRN 14 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) | GPS PRN 16 L1 SNR (dB/Hz) |
| GPS PRN 17 L1 SNR (dB/Hz) | GPS PRN 19 L1 SNR (dB/Hz) | GPS PRN 20 L1 SNR (dB/Hz) | GPS PRN 21 L1 SNR (dB/Hz) |
| GPS PRN 24 L1 SNR (dB/Hz) | GPS PRN 27 L1 SNR (dB/Hz) | GPS PRN 30 L1 SNR (dB/Hz) | |

GLONASS L1 SNR

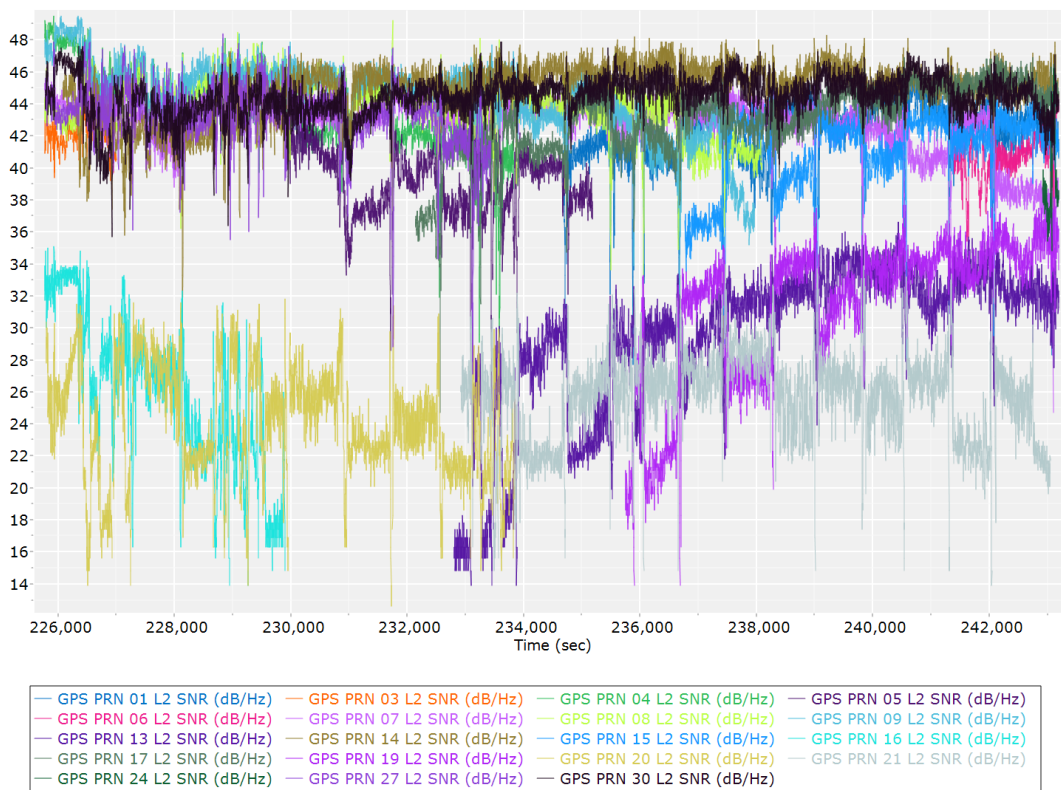


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 01 L1 SNR (dB/Hz) | GLONASS 02 L1 SNR (dB/Hz) | GLONASS 03 L1 SNR (dB/Hz) |
| GLONASS 04 L1 SNR (dB/Hz) | GLONASS 05 L1 SNR (dB/Hz) | GLONASS 06 L1 SNR (dB/Hz) |
| GLONASS 12 L1 SNR (dB/Hz) | GLONASS 13 L1 SNR (dB/Hz) | GLONASS 14 L1 SNR (dB/Hz) |
| GLONASS 15 L1 SNR (dB/Hz) | GLONASS 16 L1 SNR (dB/Hz) | GLONASS 17 L1 SNR (dB/Hz) |
| GLONASS 18 L1 SNR (dB/Hz) | GLONASS 22 L1 SNR (dB/Hz) | GLONASS 23 L1 SNR (dB/Hz) |
| GLONASS 24 L1 SNR (dB/Hz) | | |

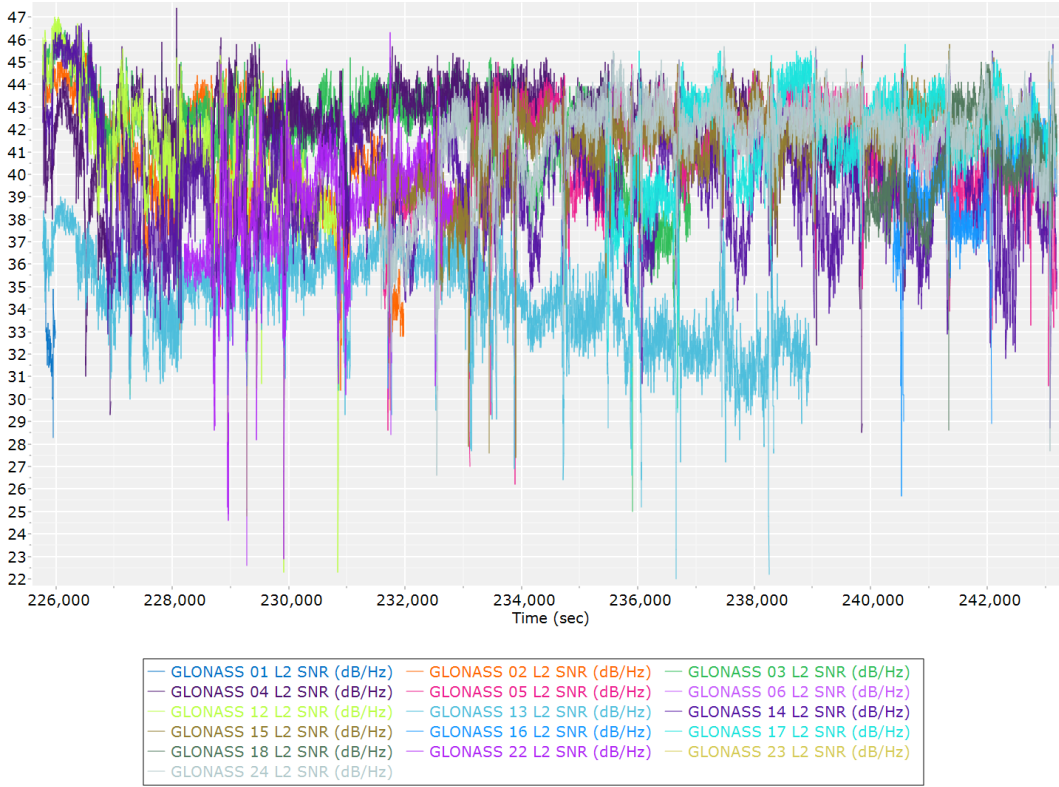
GPS/GLONASS L2 Satellite Lock/Elevation



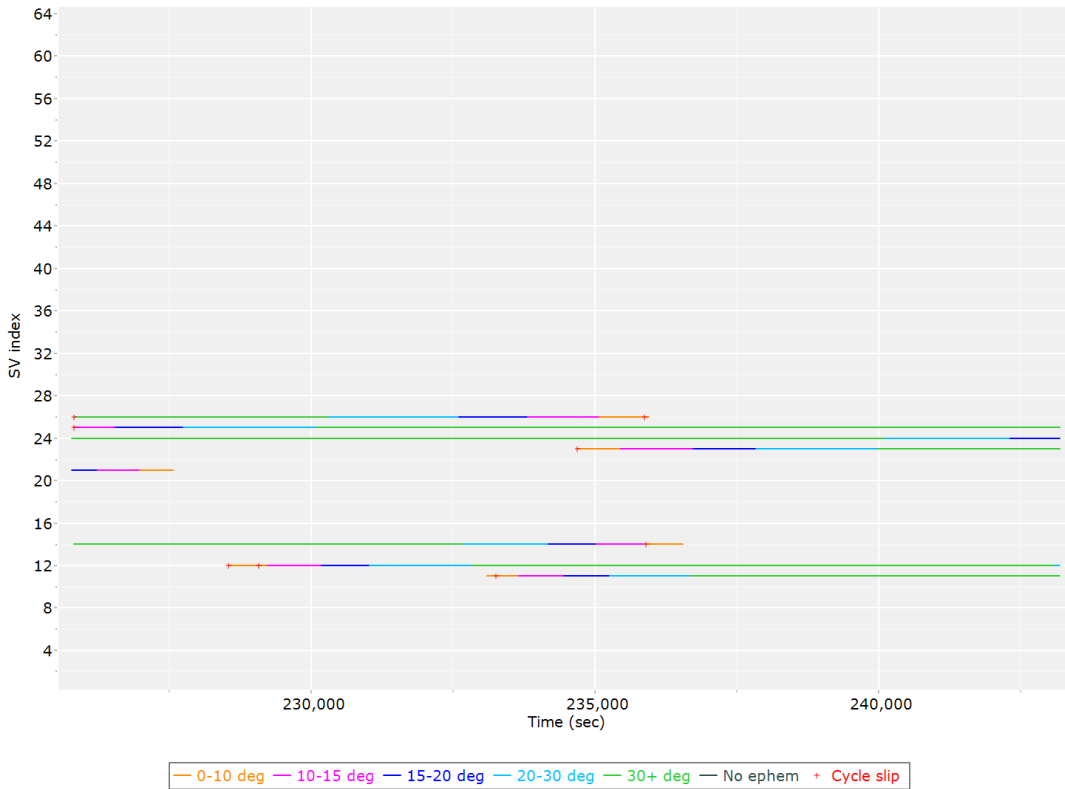
GPS L2 SNR



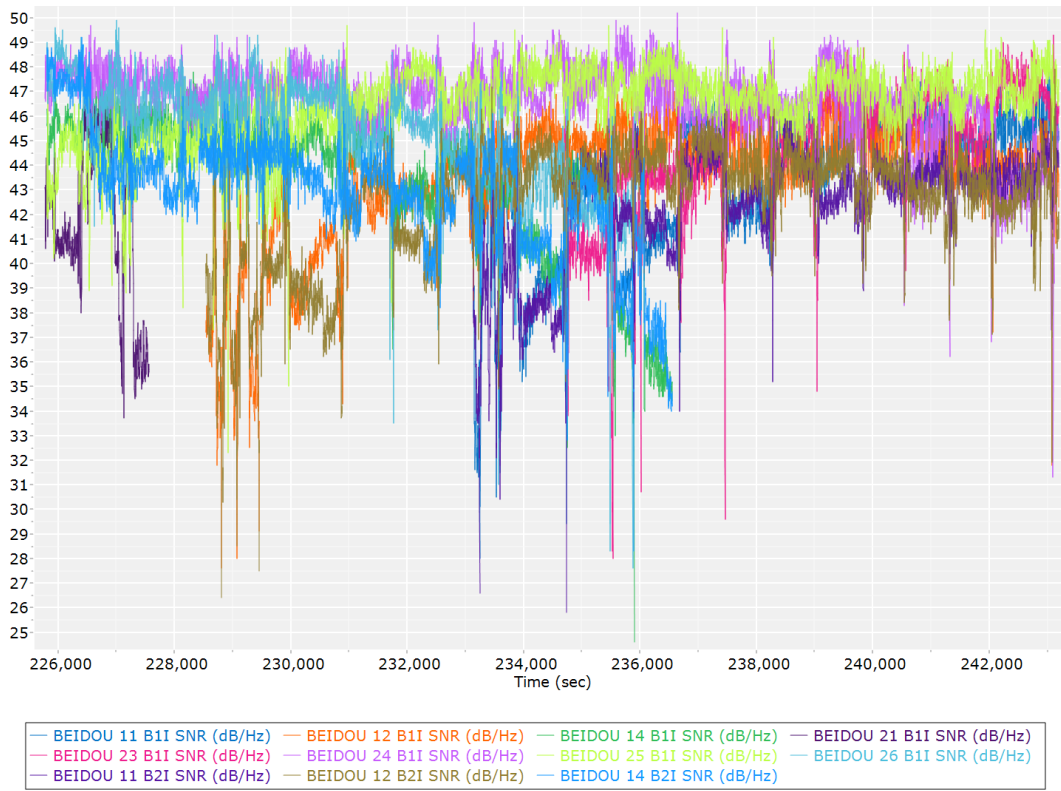
GLONASS L2 SNR



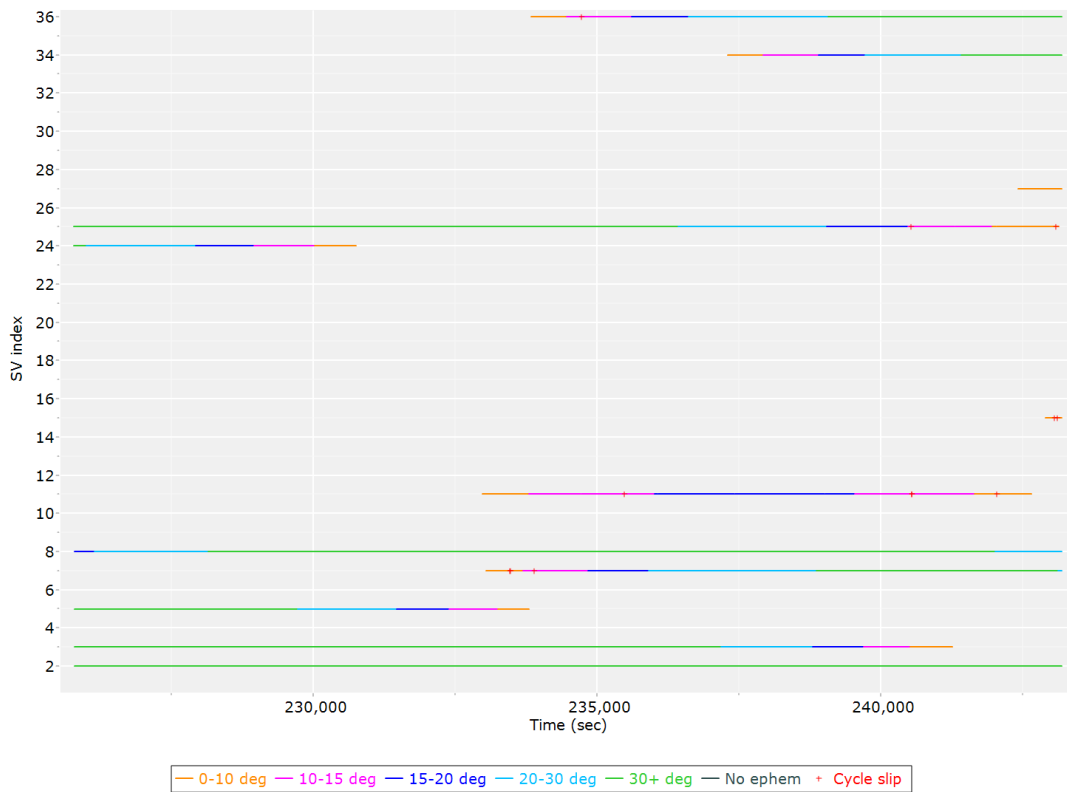
BEIDOU Satellite Lock/Elevation



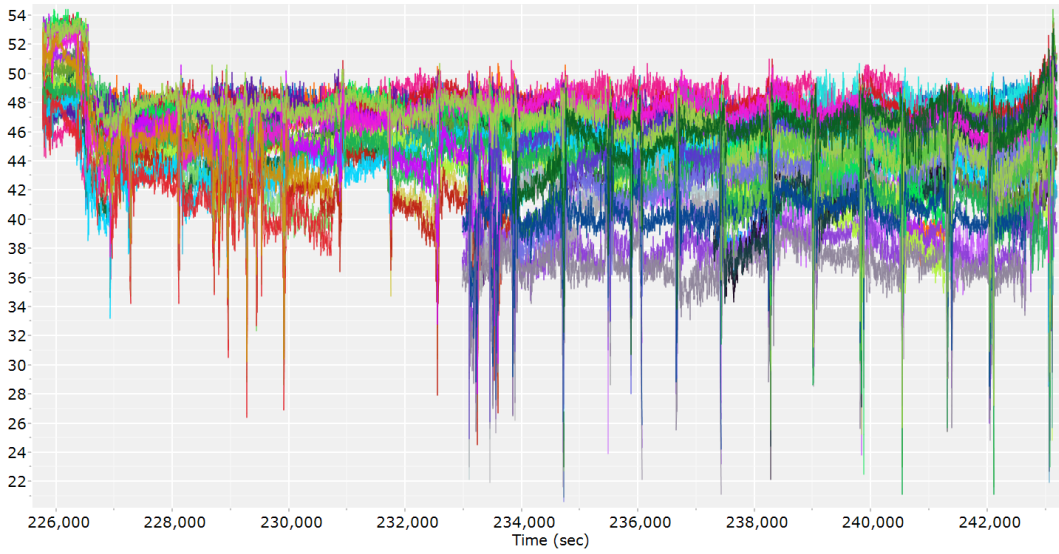
BEIDOU SNR



GALILEO Satellite Lock/Elevation



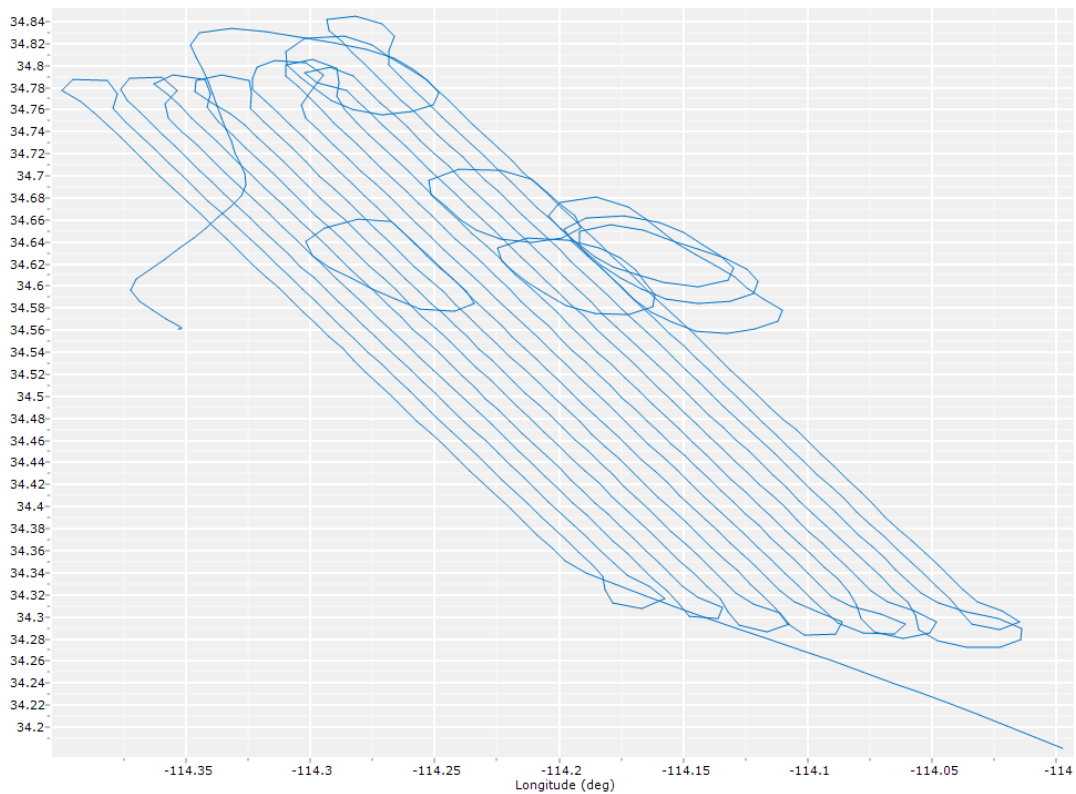
GALILEO SNR



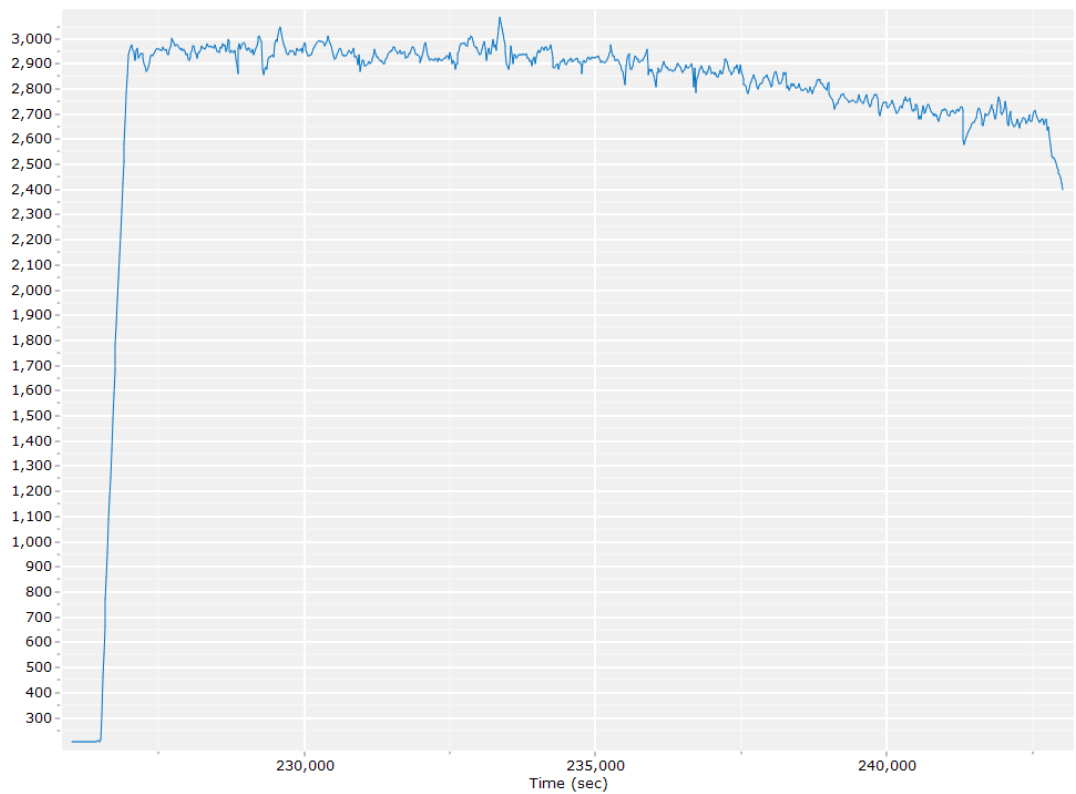
— GALILEO 02 E1CBOC SNR (dB/Hz)	— GALILEO 03 E1CBOC SNR (dB/Hz)	— GALILEO 05 E1CBOC SNR (dB/Hz)
— GALILEO 07 E1CBOC SNR (dB/Hz)	— GALILEO 08 E1CBOC SNR (dB/Hz)	— GALILEO 11 E1CBOC SNR (dB/Hz)
— GALILEO 15 E1CBOC SNR (dB/Hz)	— GALILEO 24 E1CBOC SNR (dB/Hz)	— GALILEO 25 E1CBOC SNR (dB/Hz)
— GALILEO 27 E1CBOC SNR (dB/Hz)	— GALILEO 34 E1CBOC SNR (dB/Hz)	— GALILEO 36 E1CBOC SNR (dB/Hz)
— GALILEO 02 E5A SNR (dB/Hz)	— GALILEO 03 E5A SNR (dB/Hz)	— GALILEO 05 E5A SNR (dB/Hz)
— GALILEO 07 E5A SNR (dB/Hz)	— GALILEO 08 E5A SNR (dB/Hz)	— GALILEO 11 E5A SNR (dB/Hz)
— GALILEO 15 E5A SNR (dB/Hz)	— GALILEO 24 E5A SNR (dB/Hz)	— GALILEO 25 E5A SNR (dB/Hz)
— GALILEO 27 E5A SNR (dB/Hz)	— GALILEO 34 E5A SNR (dB/Hz)	— GALILEO 36 E5A SNR (dB/Hz)
— GALILEO 02 E5B SNR (dB/Hz)	— GALILEO 03 E5B SNR (dB/Hz)	— GALILEO 05 E5B SNR (dB/Hz)
— GALILEO 07 E5B SNR (dB/Hz)	— GALILEO 08 E5B SNR (dB/Hz)	— GALILEO 11 E5B SNR (dB/Hz)

Smoothed Trajectory Information

Top View



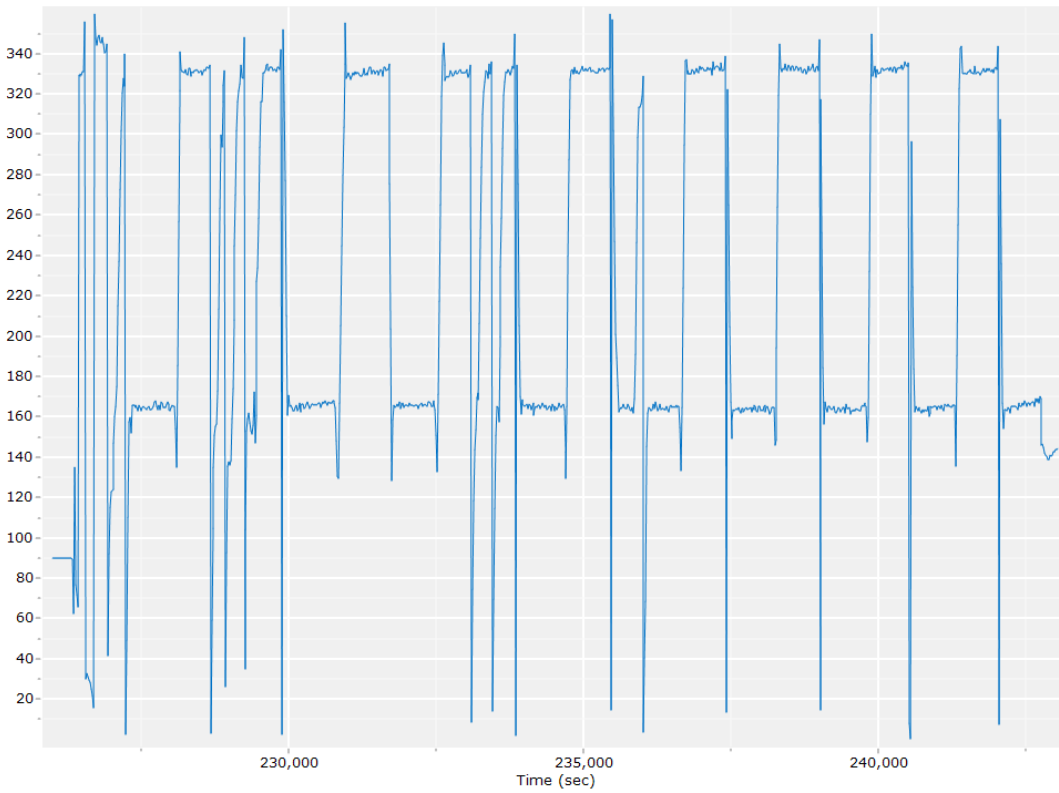
Altitude



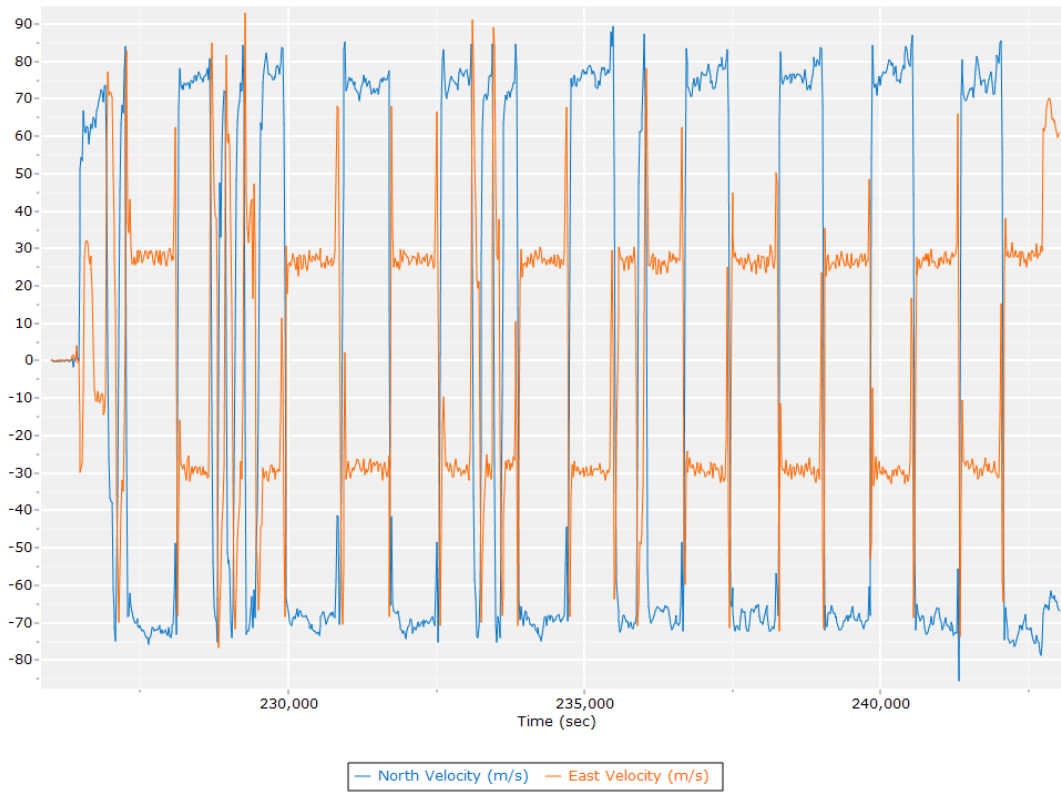
Roll/Pitch



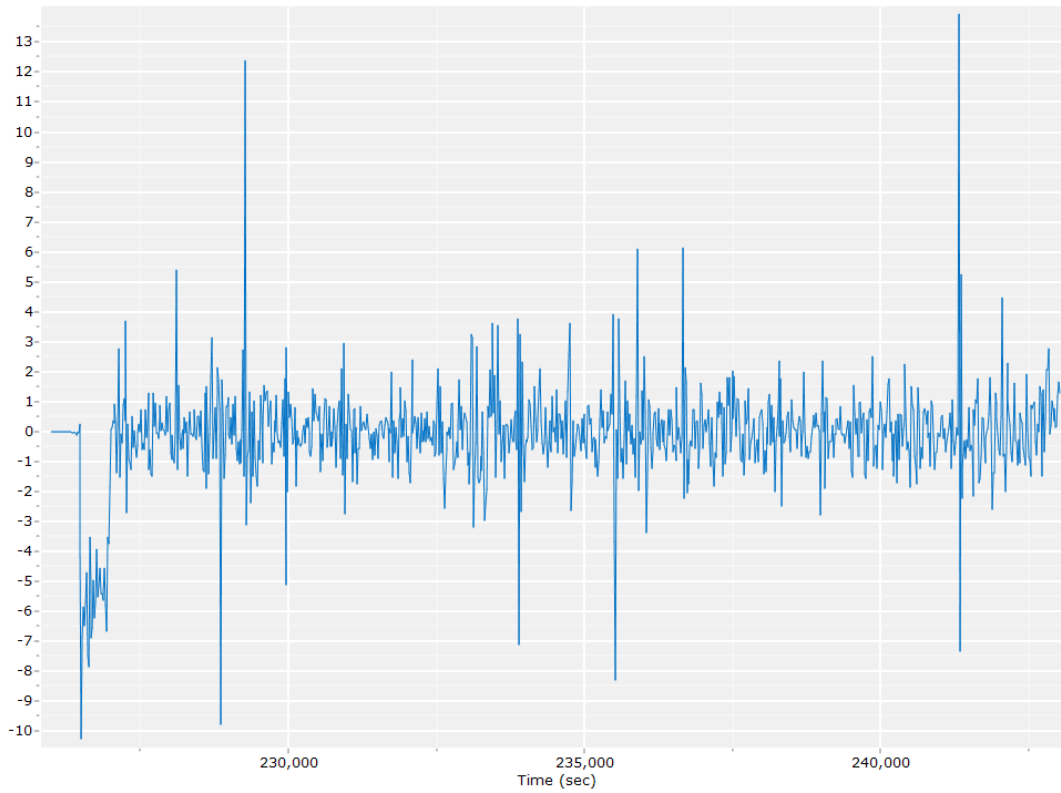
Heading



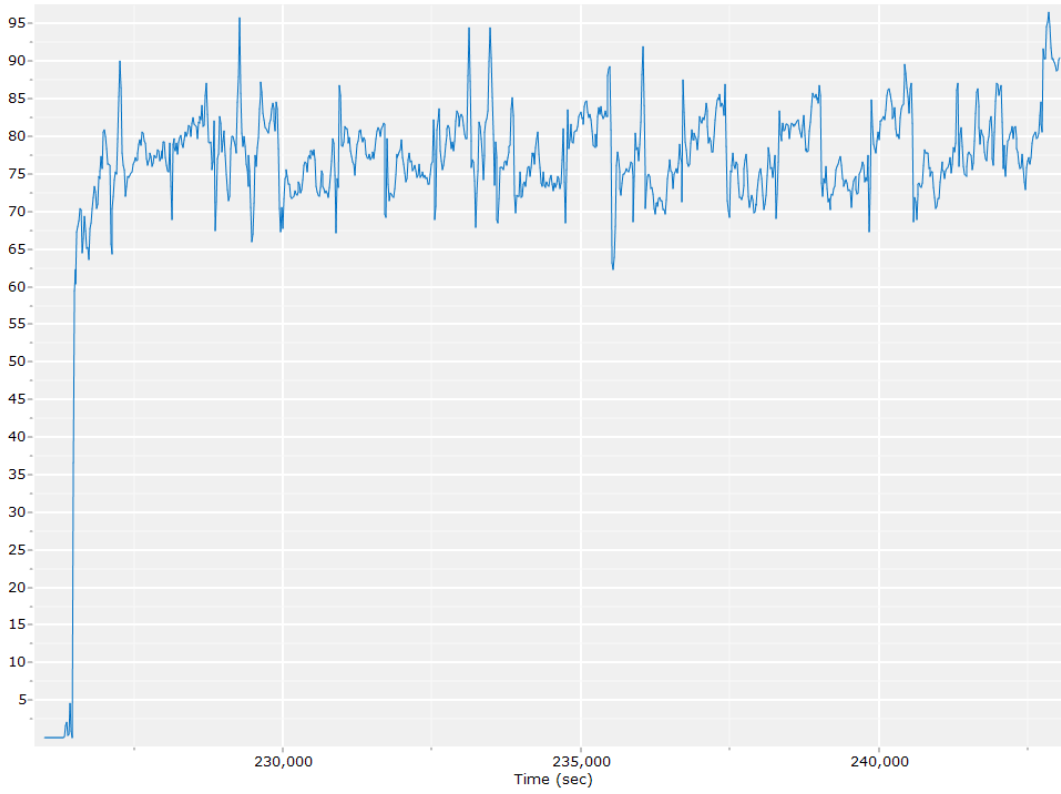
North/East Velocity



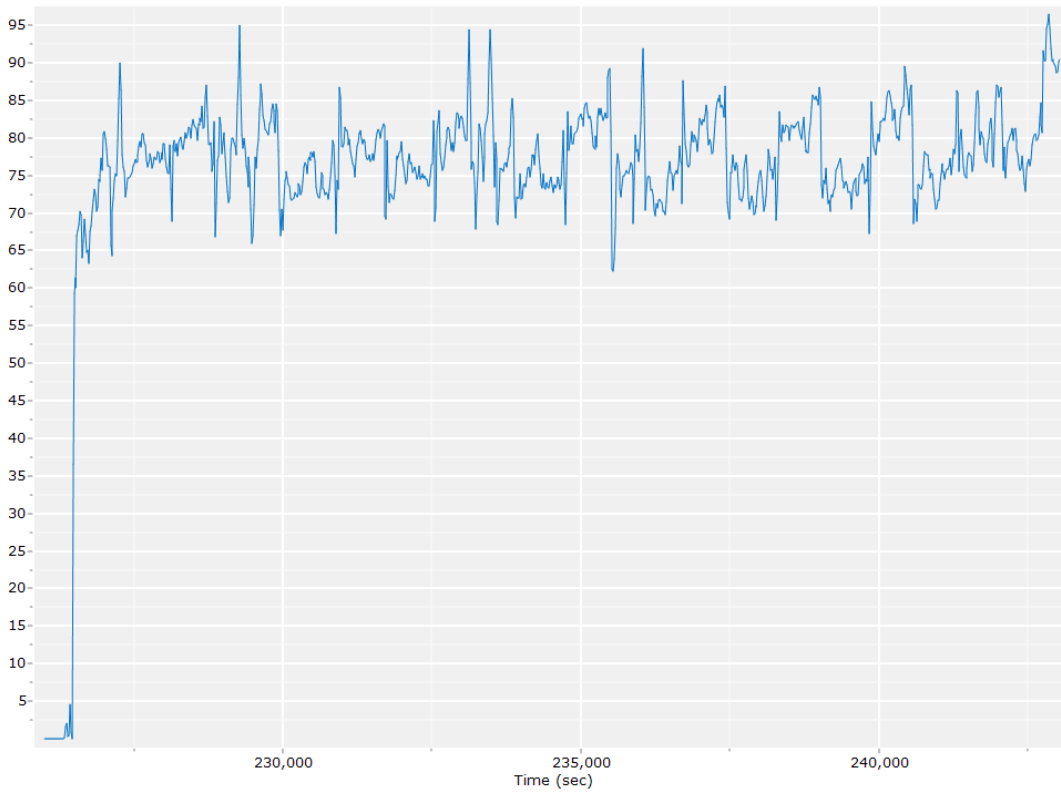
Down Velocity



Total Speed



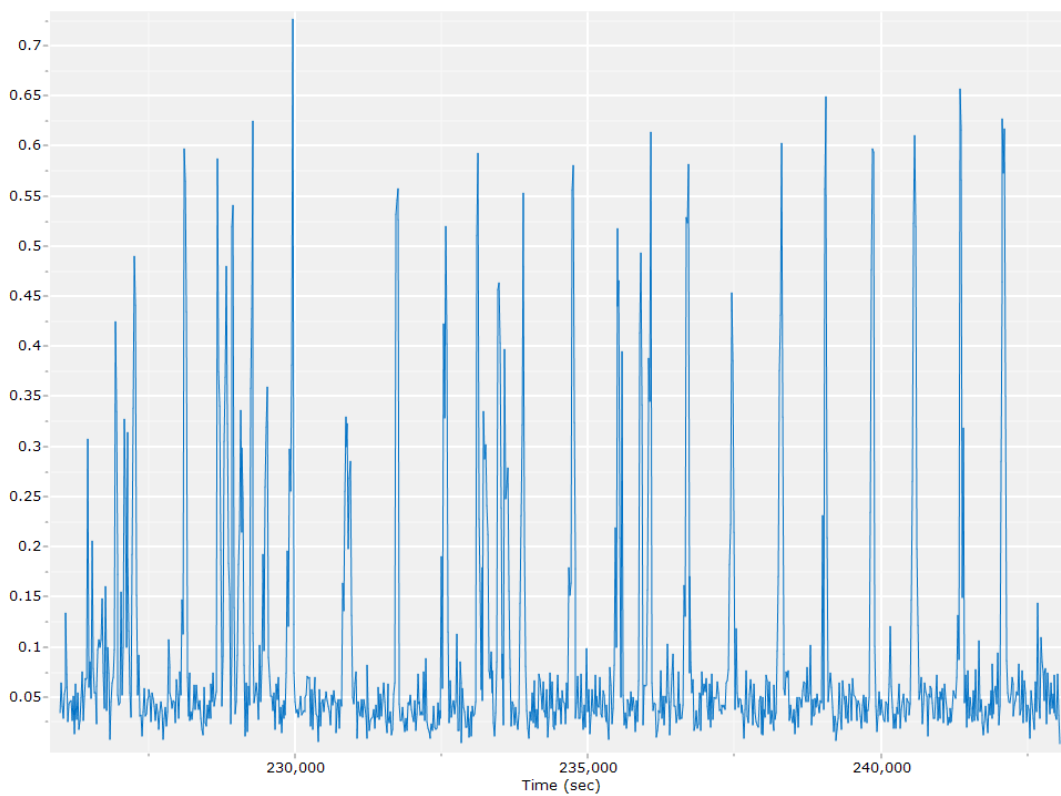
Ground Speed



Body Acceleration



Total Body Acceleration

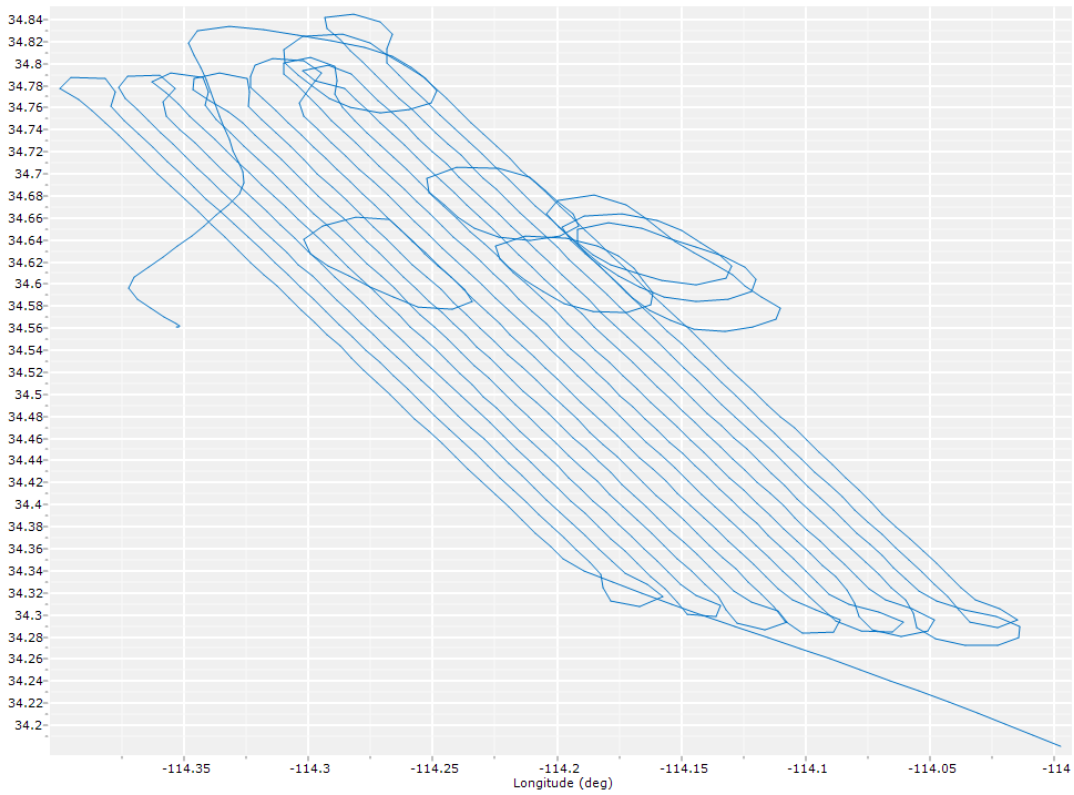


Body Angular Rate

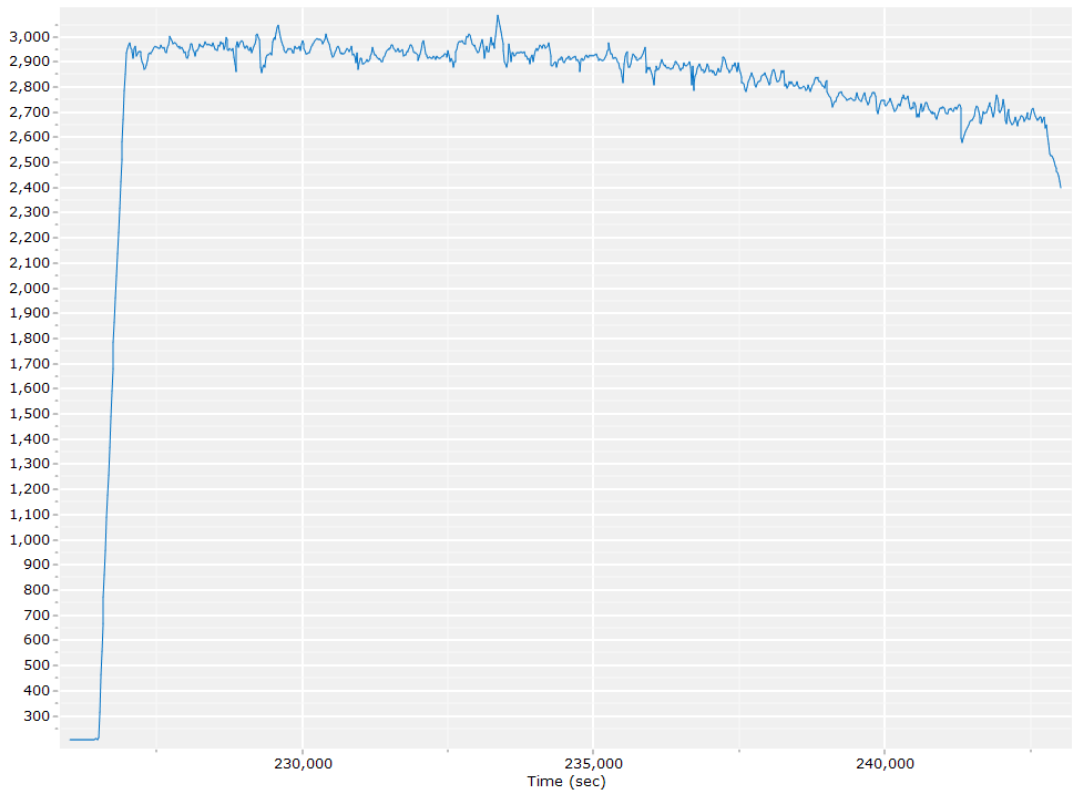


Forward Processed Trajectory Information

Top View



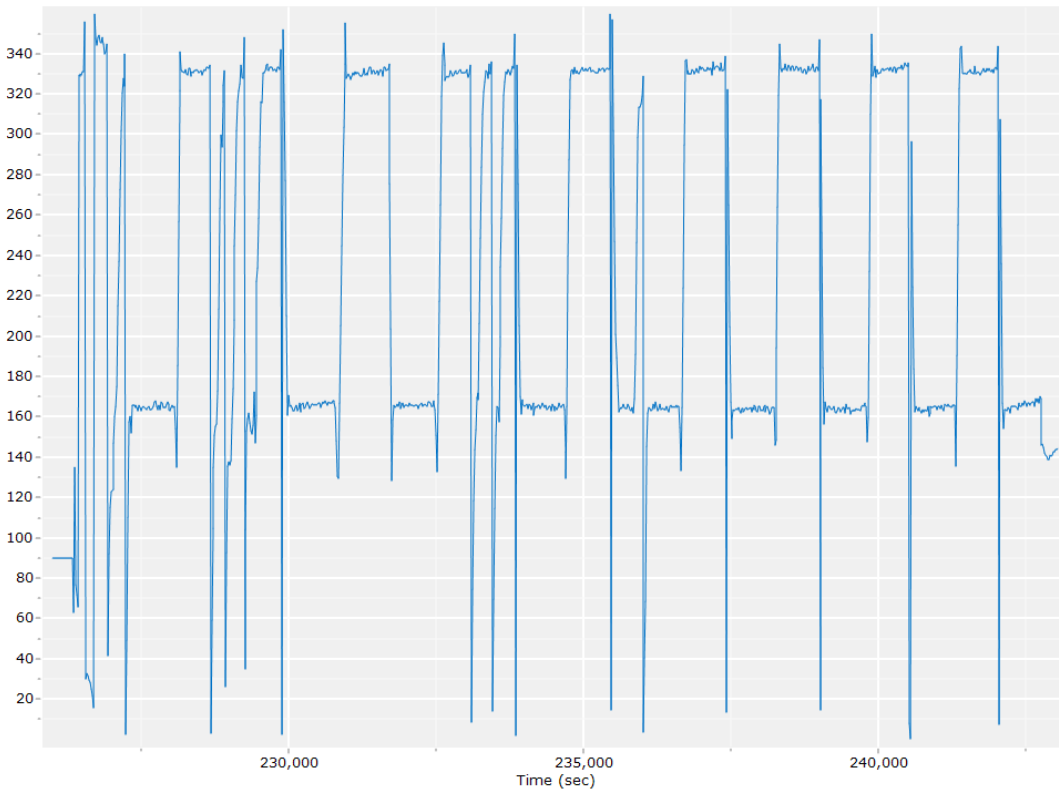
Altitude



Roll/Pitch



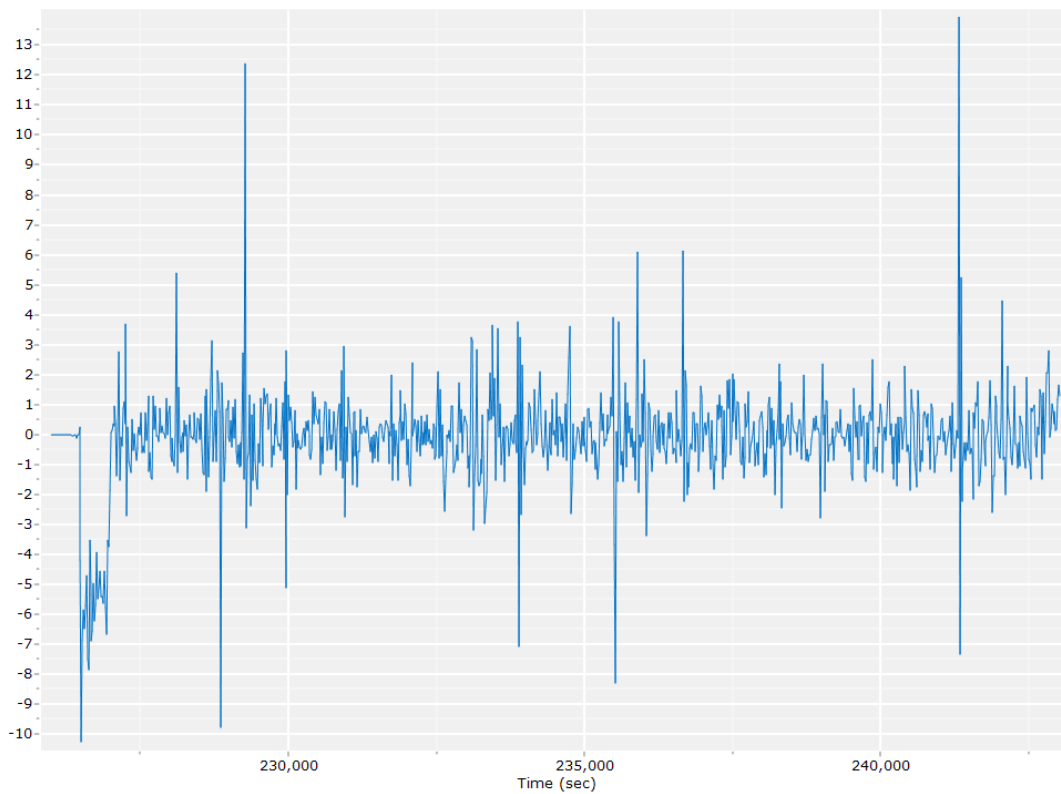
Heading



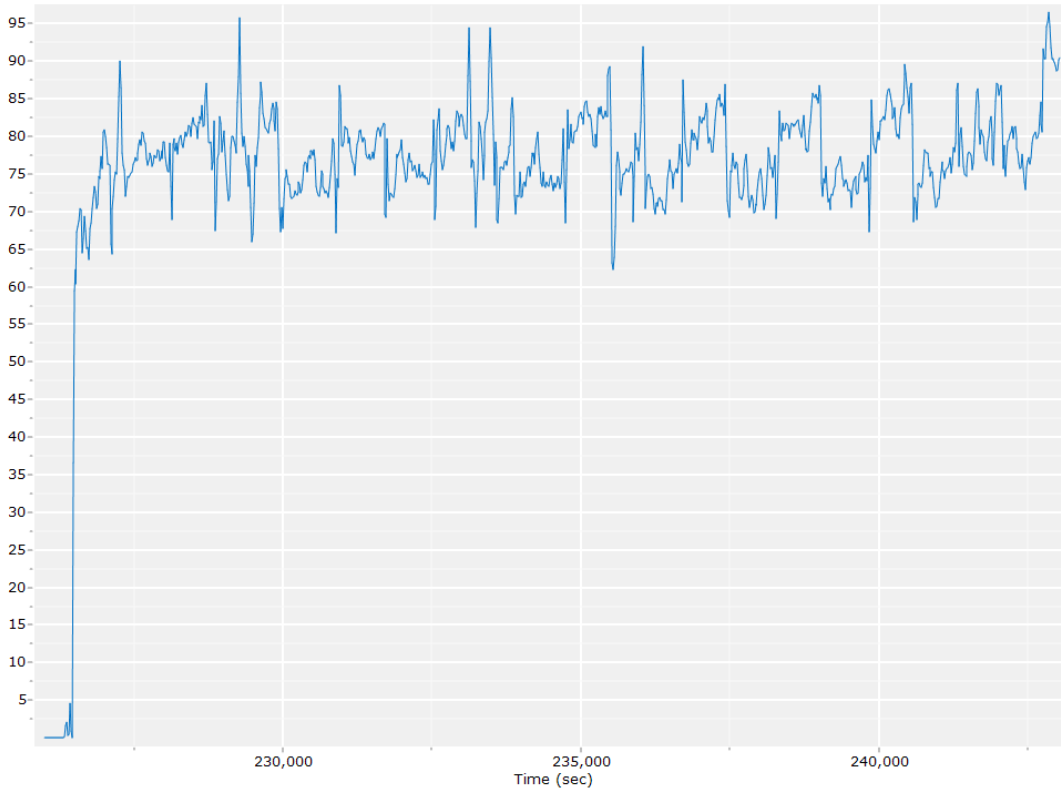
North/East Velocity



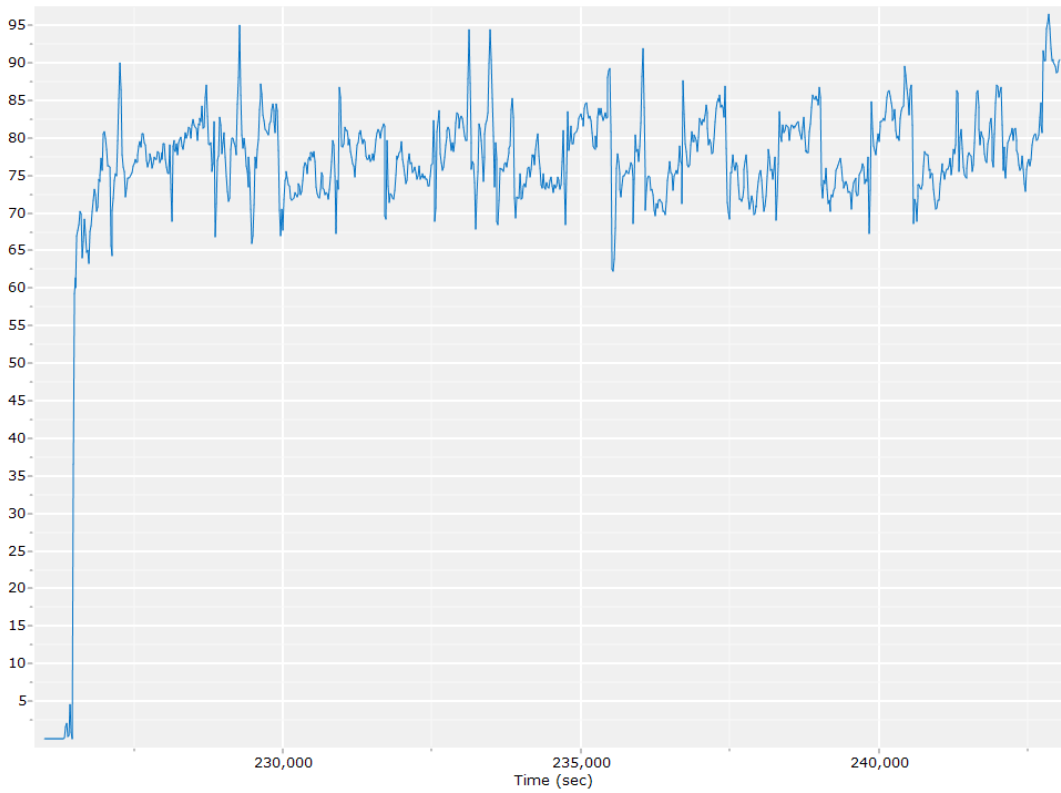
Down Velocity



Total Speed



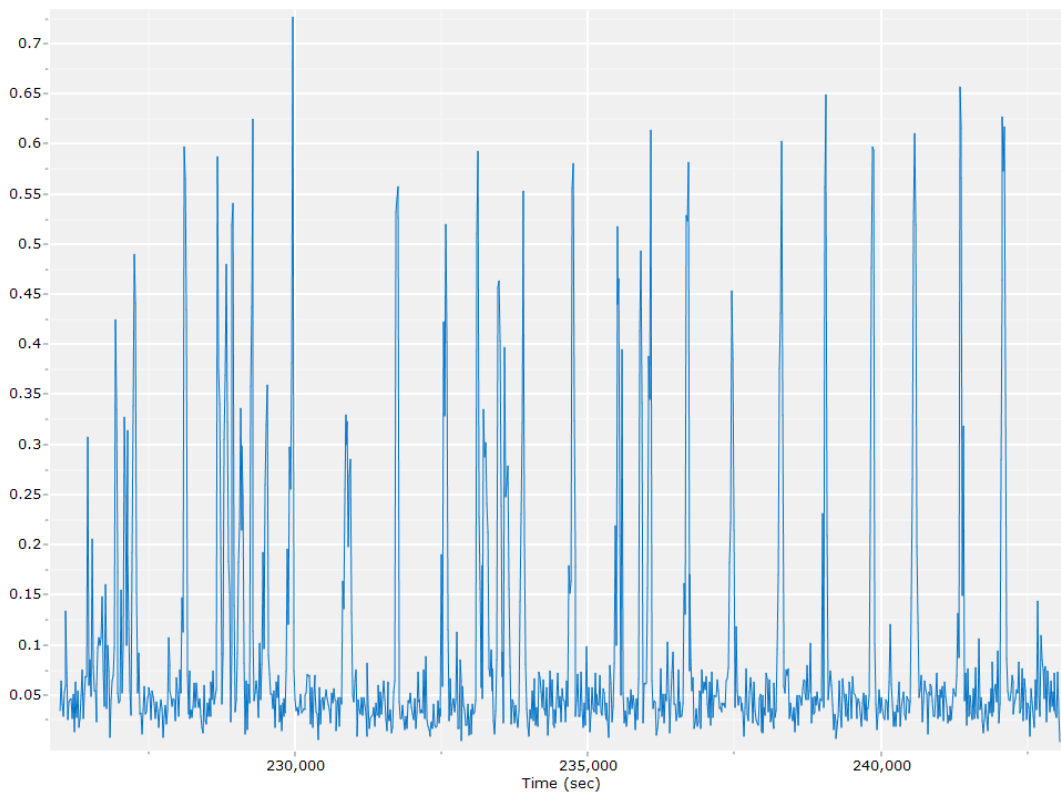
Ground Speed



Body Acceleration



Total Body Acceleration



Body Angular Rate



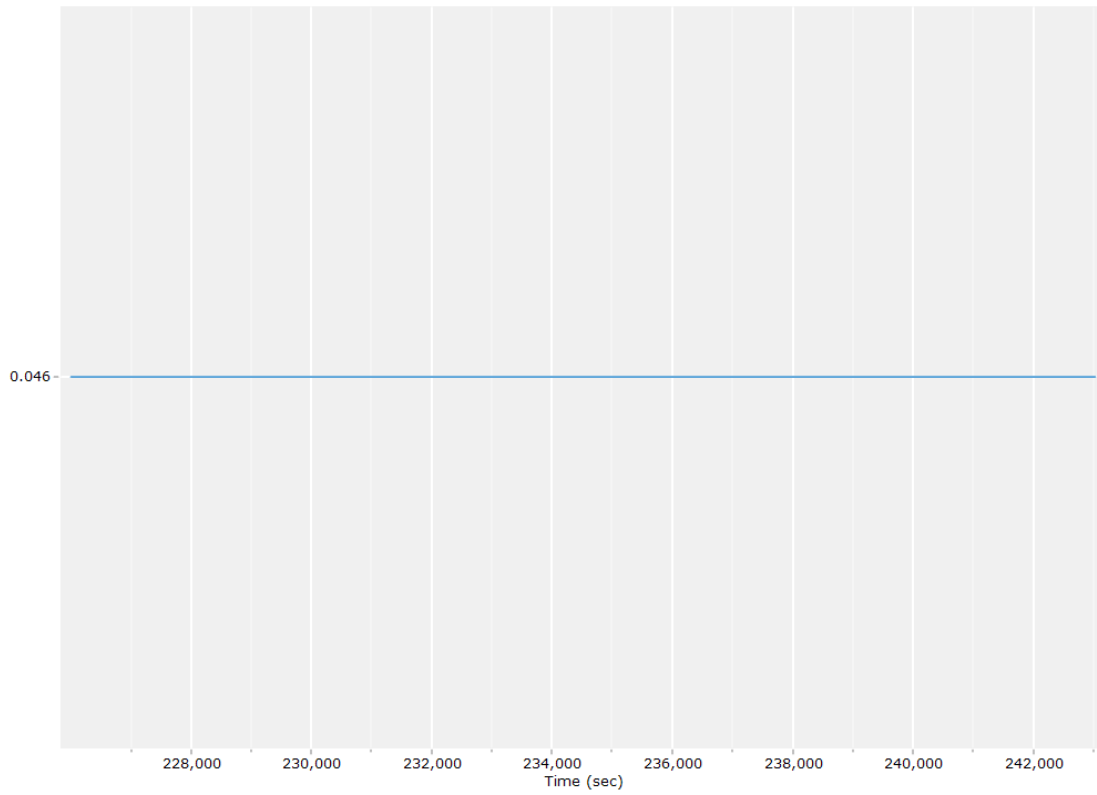
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	225777.000 (3/14/2023 2:42:57 PM)		
Processing end time	243046.000 (3/14/2023 7:30:46 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)	0.046	-0.153	-0.934
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

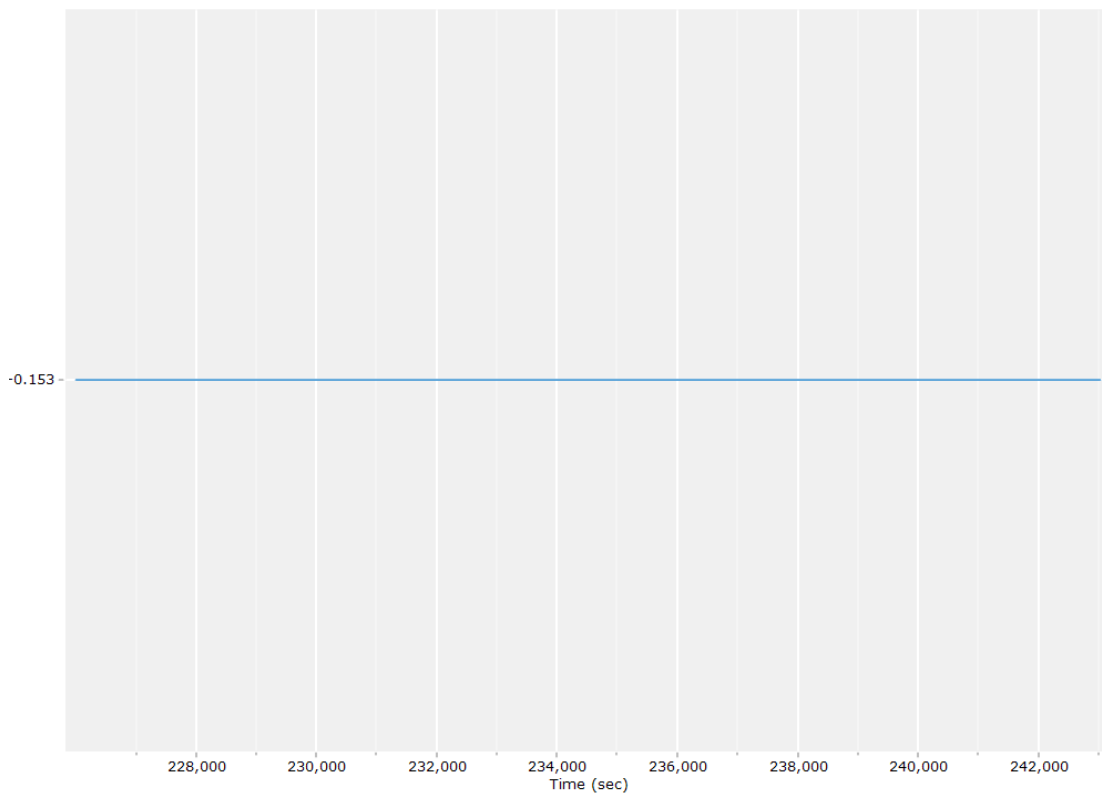
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

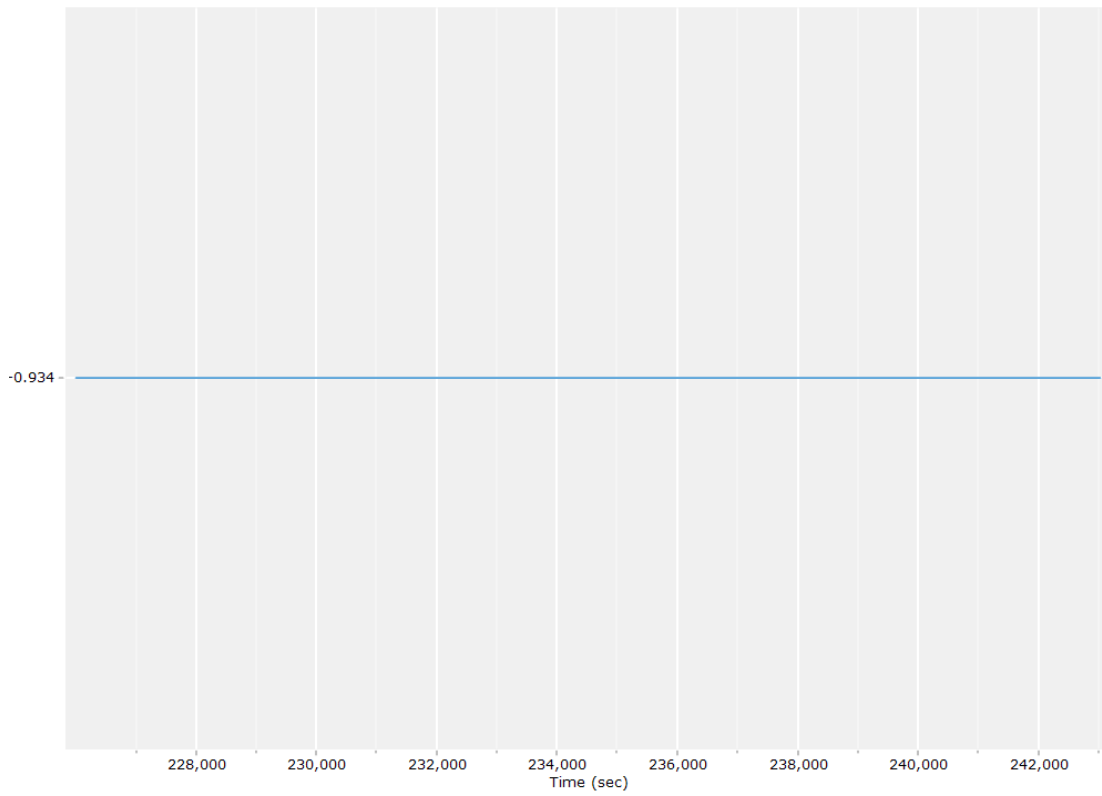
X Reference-Primary GNSS Lever Arm (m)



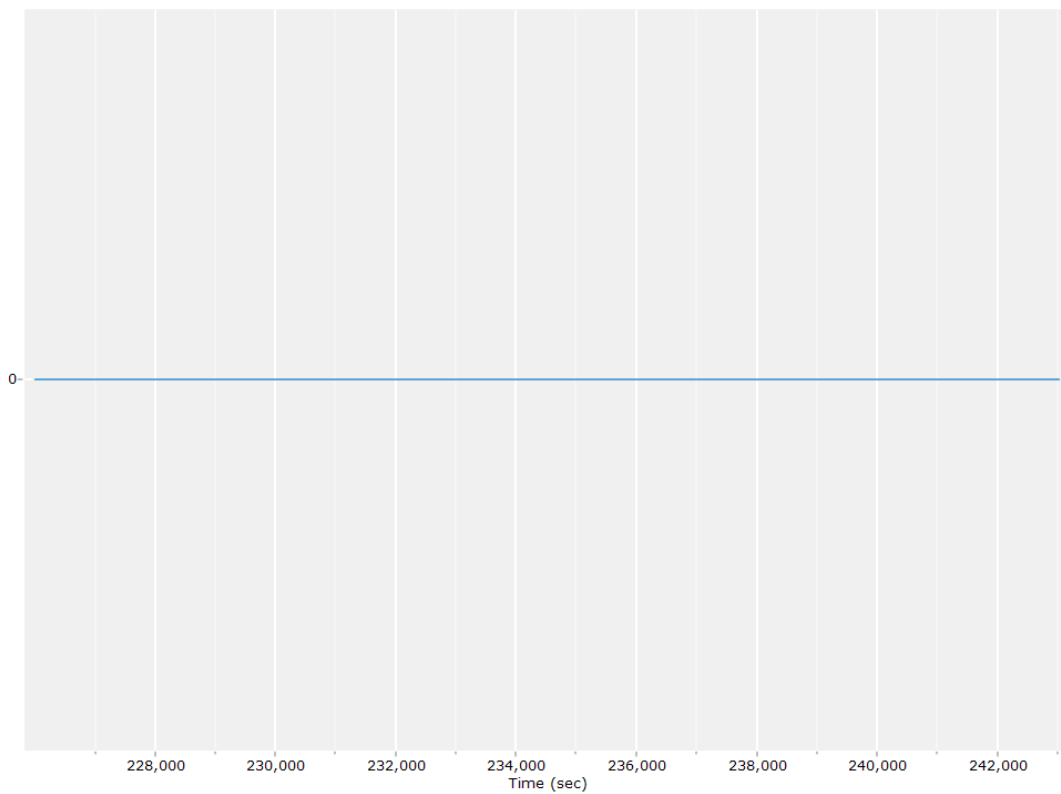
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



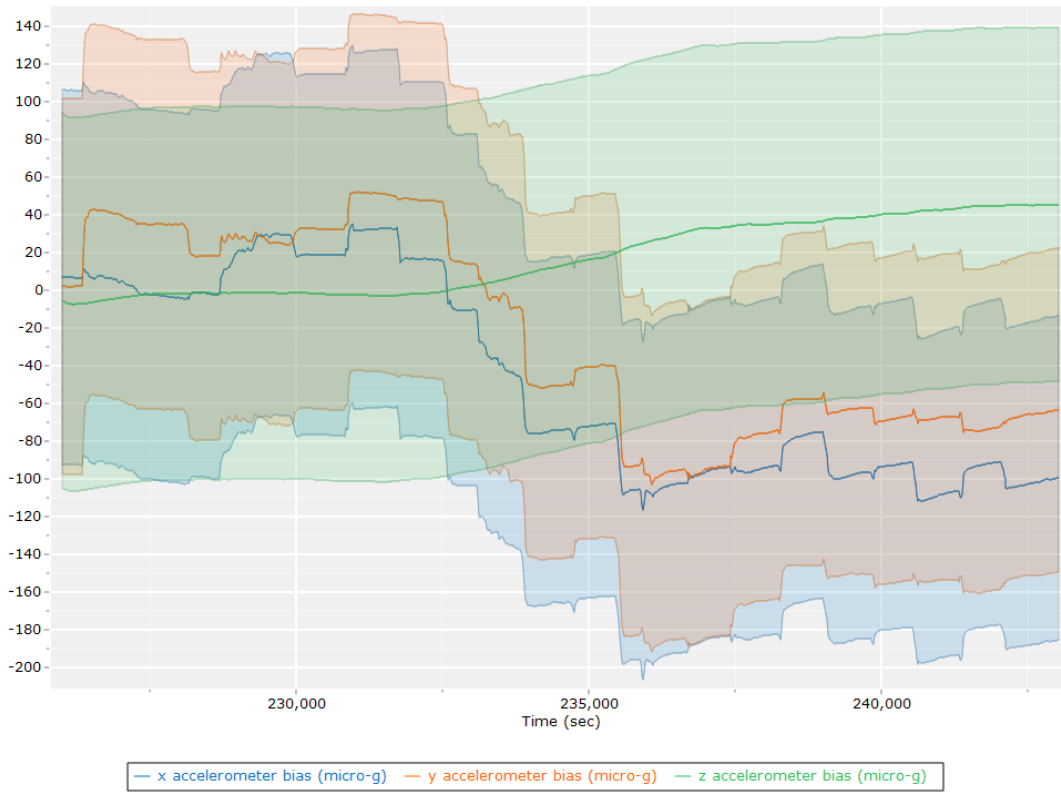
Reference-Primary GNSS Lever Arm Figure of Merit



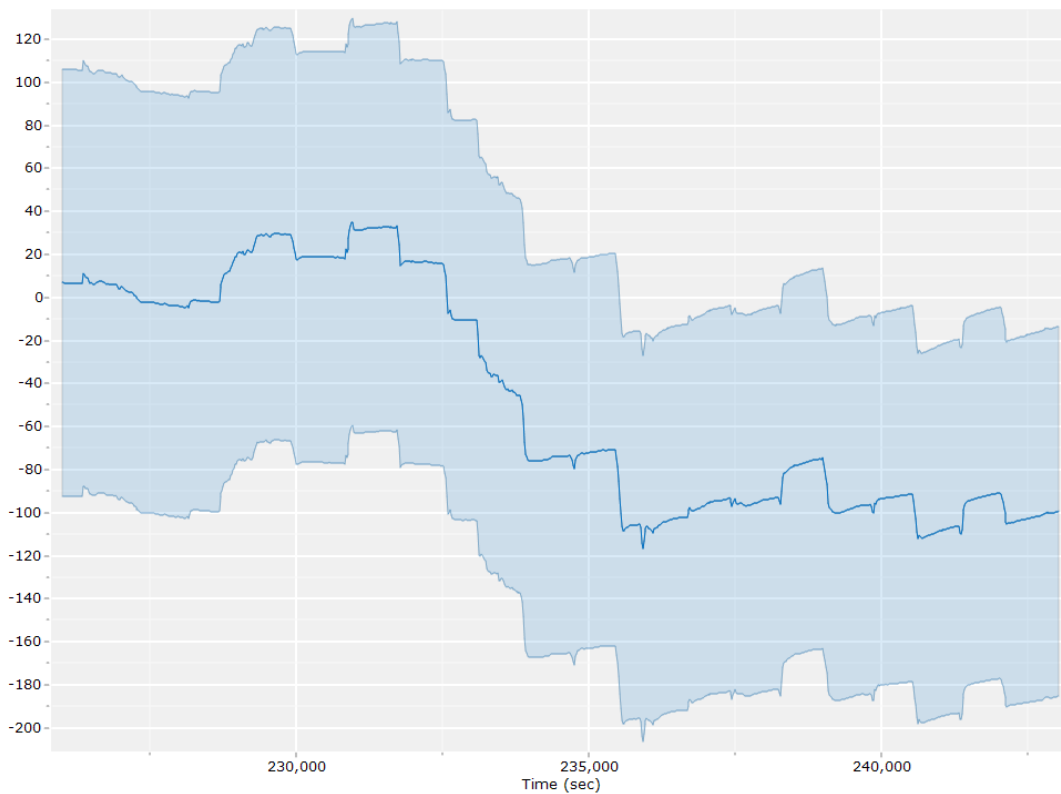
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

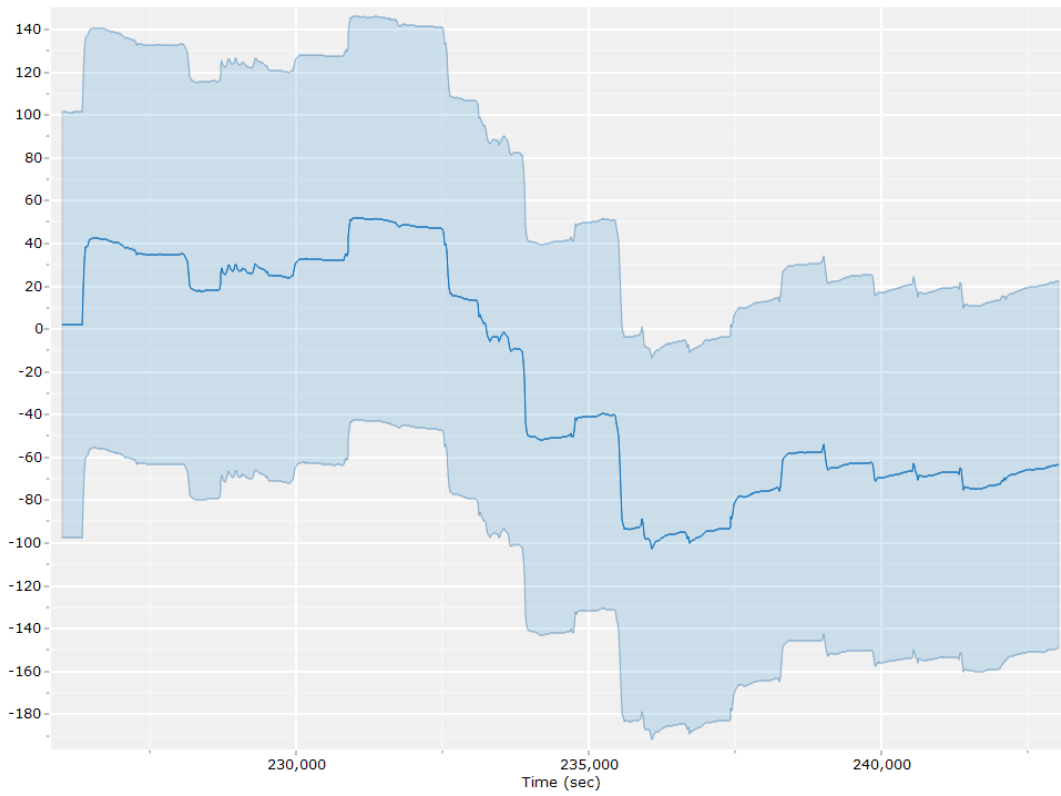
Accelerometer Bias (micro-g)



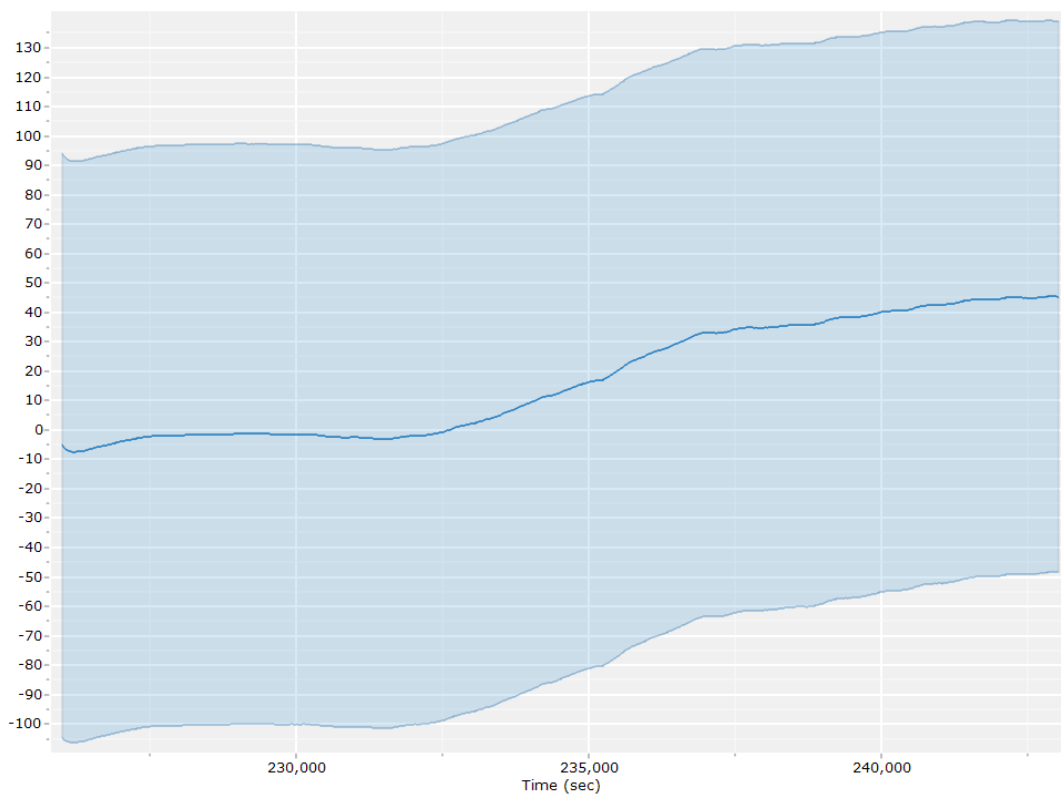
X Accelerometer Bias (micro-g)



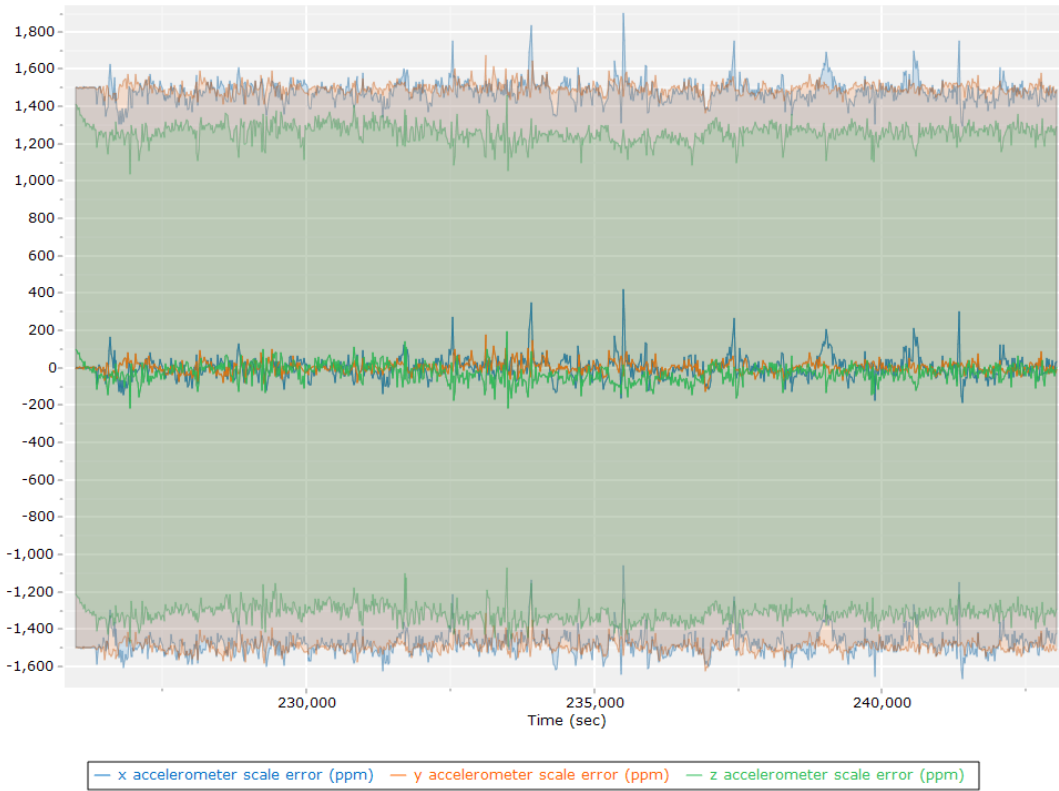
Y Accelerometer Bias (micro-g)



Z Accelerometer Bias (micro-g)



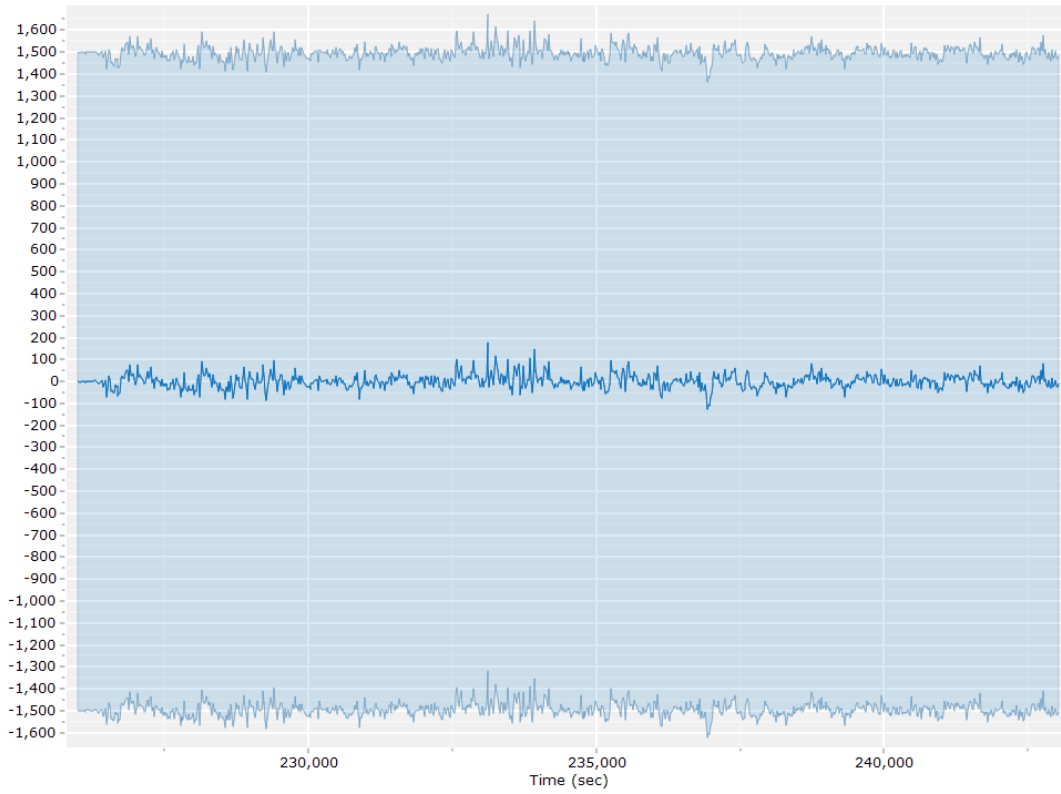
Accelerometer Scale Error (ppm)



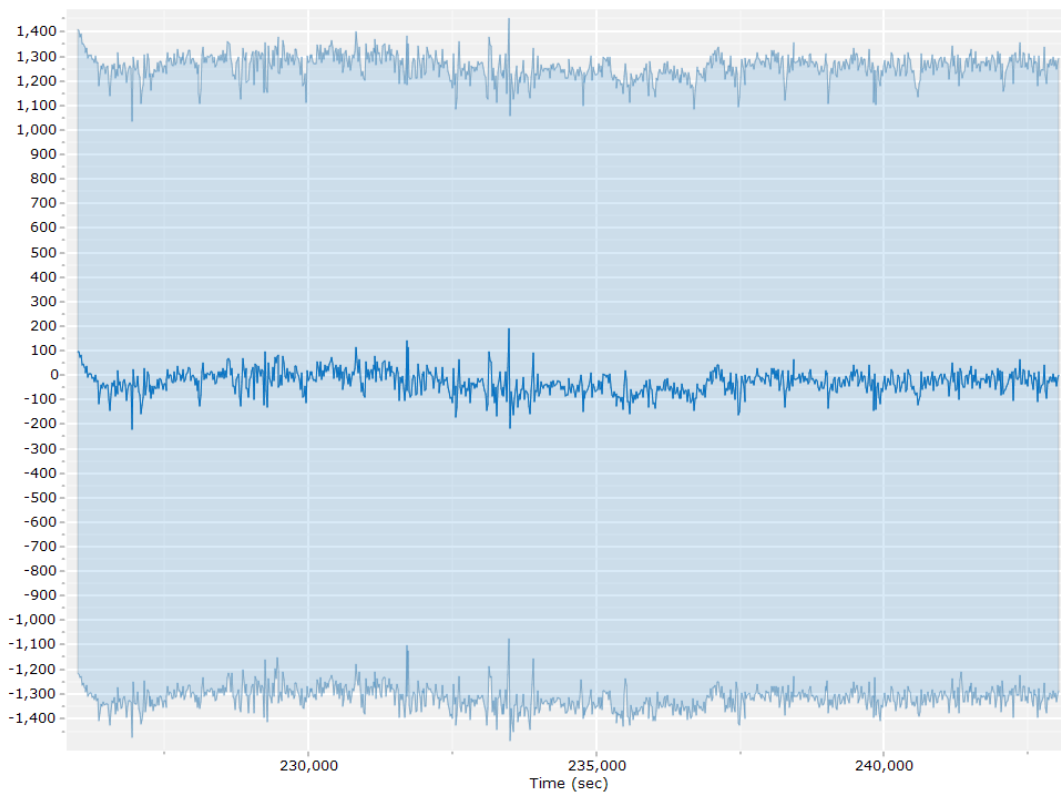
X Accelerometer Scale Error (ppm)



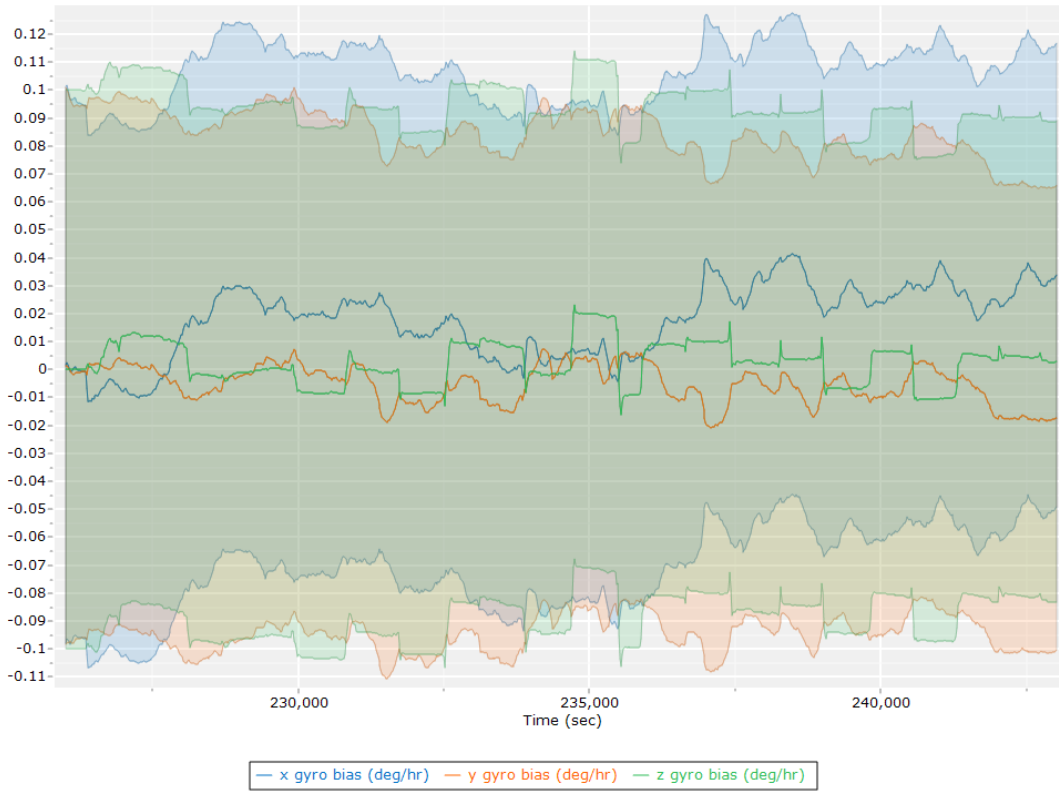
Y Accelerometer Scale Error (ppm)



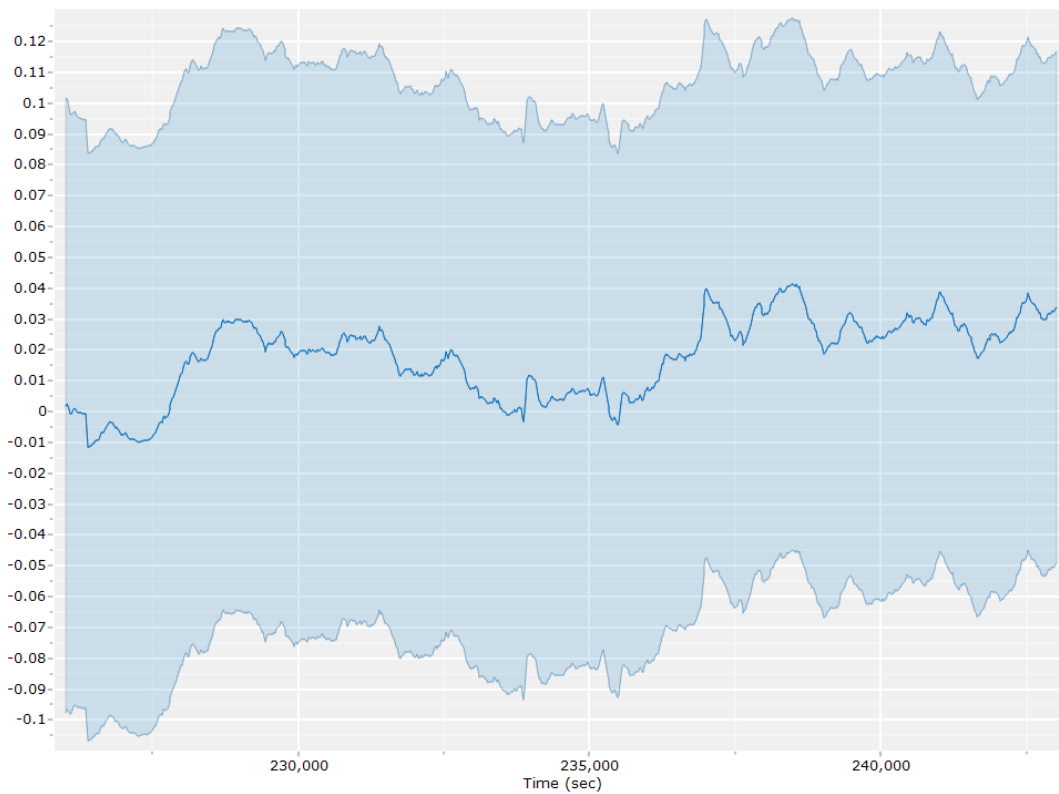
Z Accelerometer Scale Error (ppm)



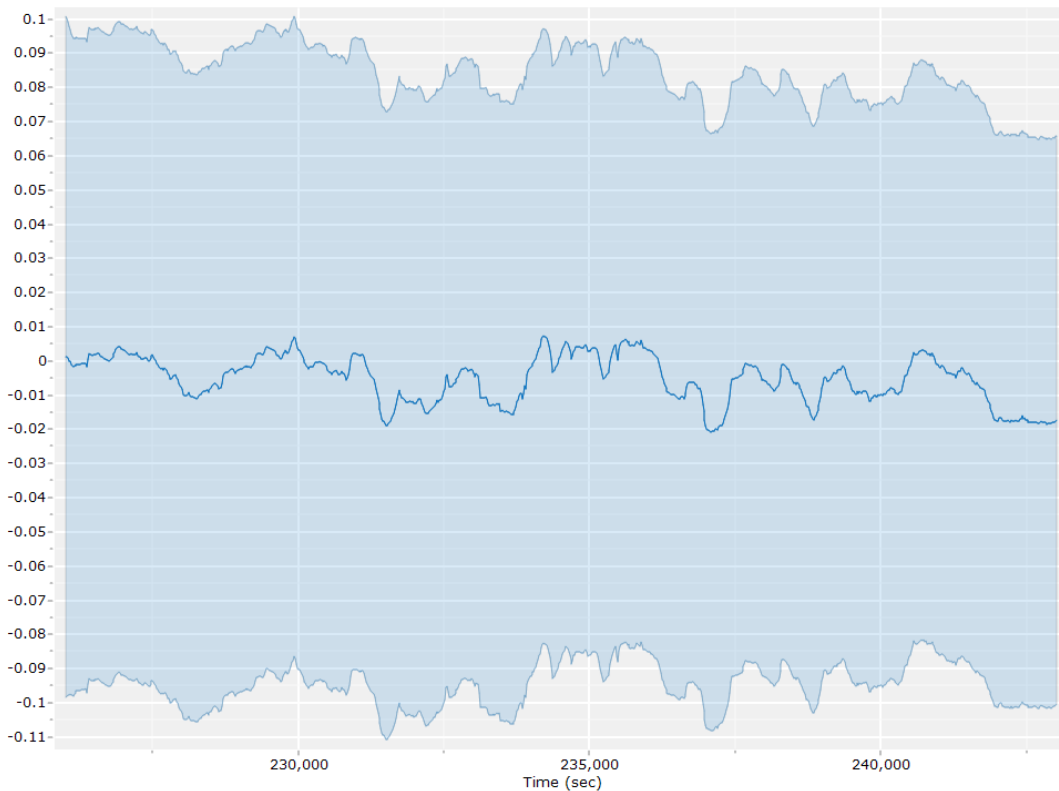
Gyro Bias (deg/h)



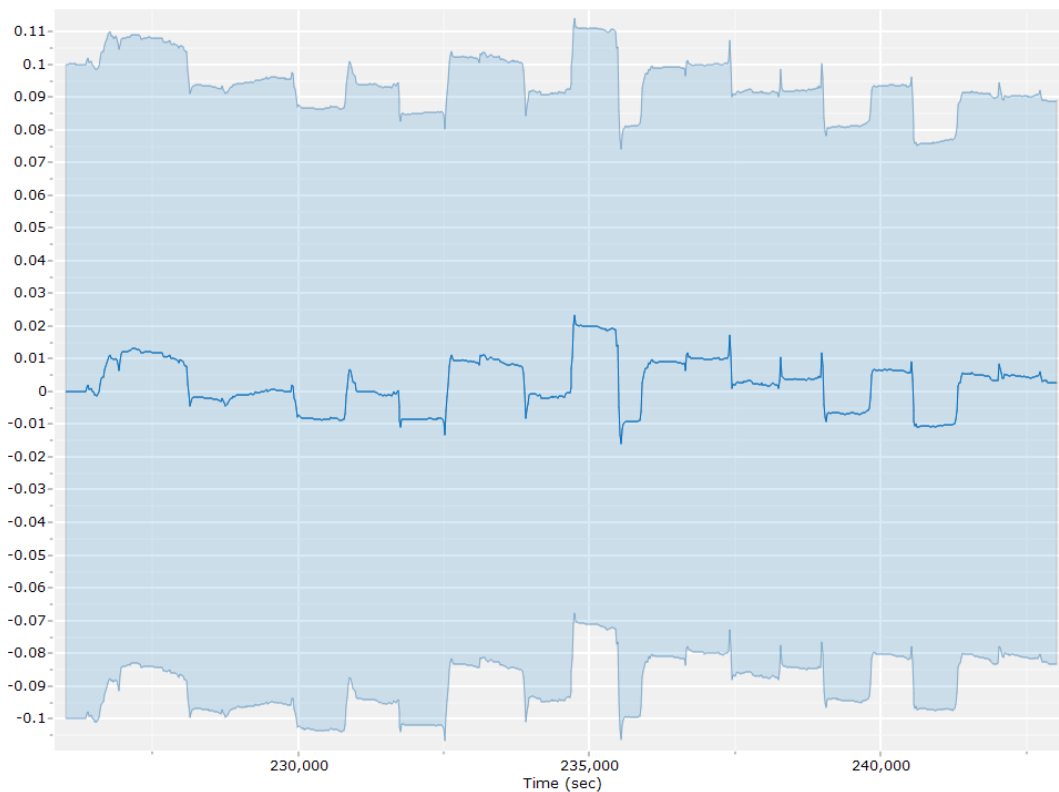
X Gyro Bias (deg/h)



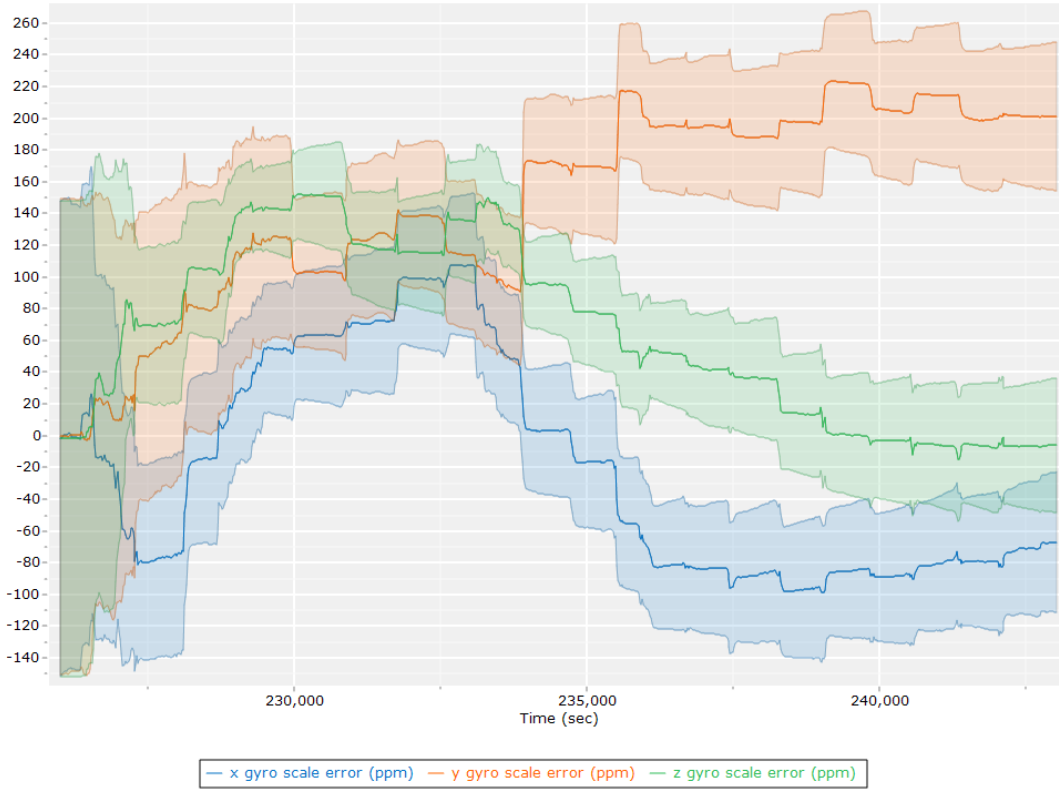
Y Gyro Bias (deg/h)



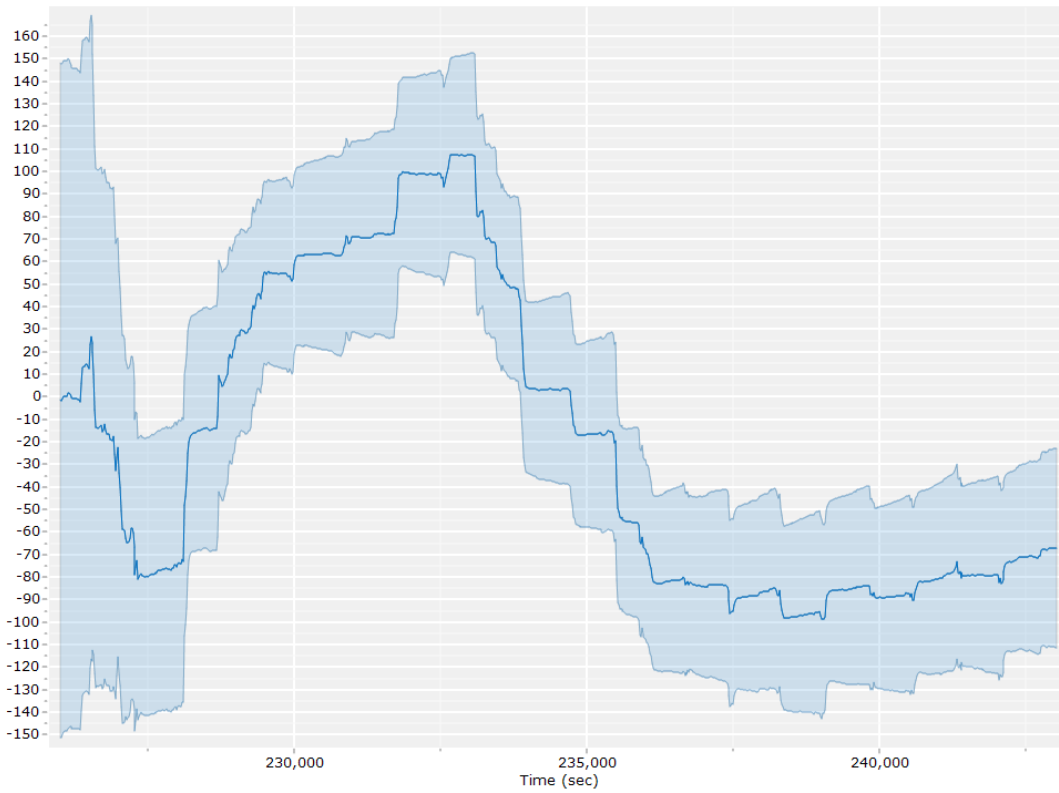
Z Gyro Bias (deg/h)



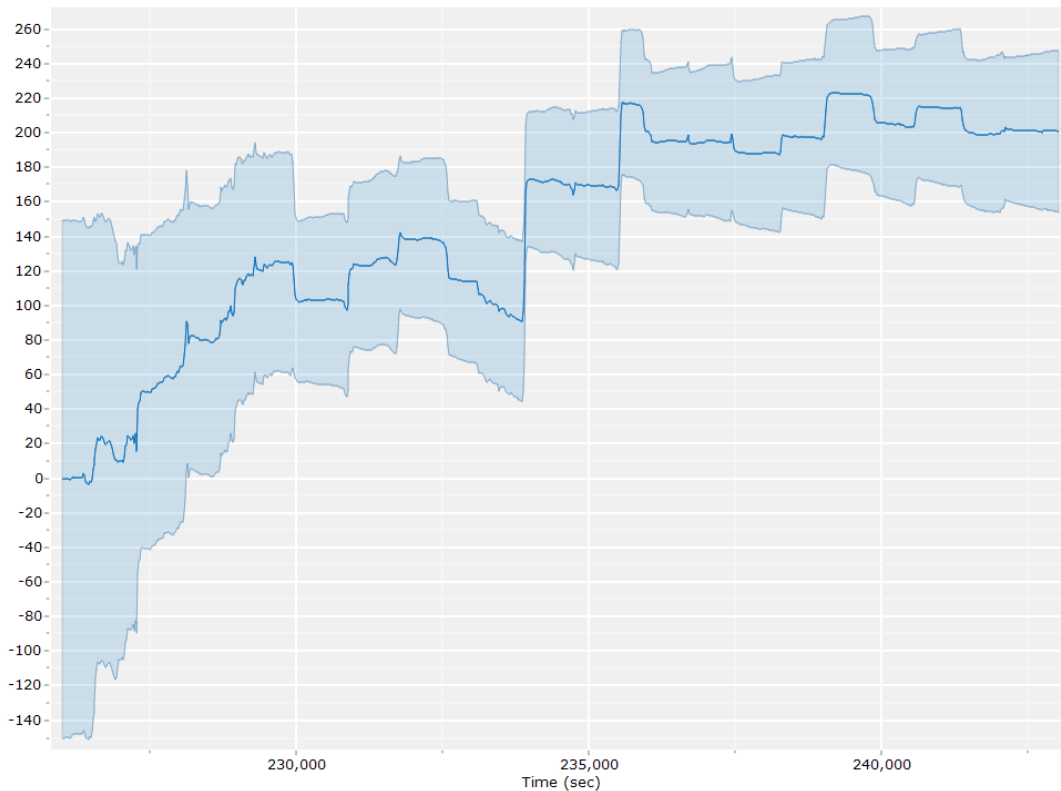
Gyro Scale Error (ppm)



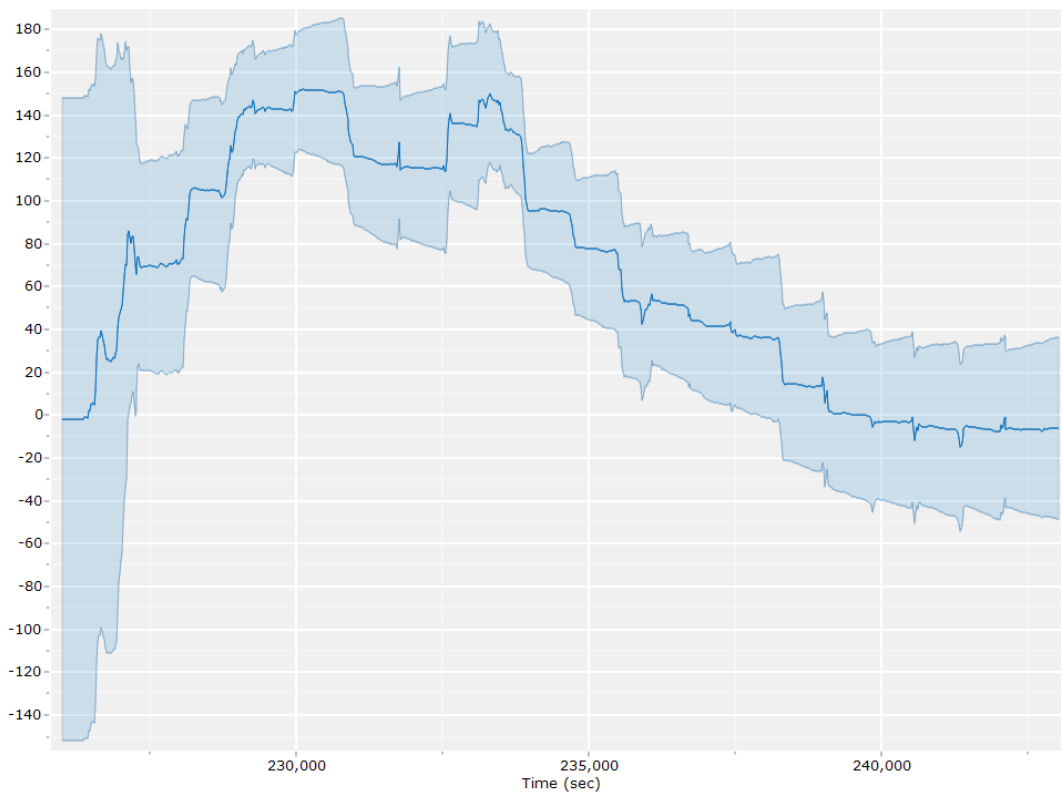
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

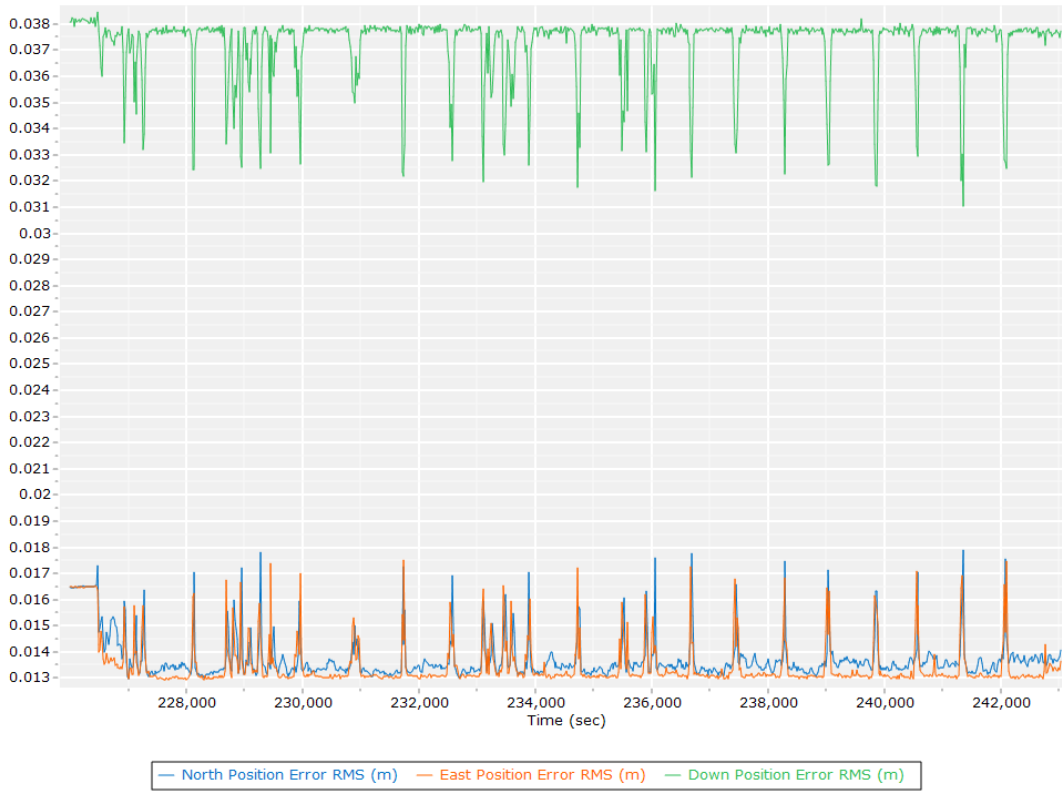


Z Gyro Scale Error (ppm)

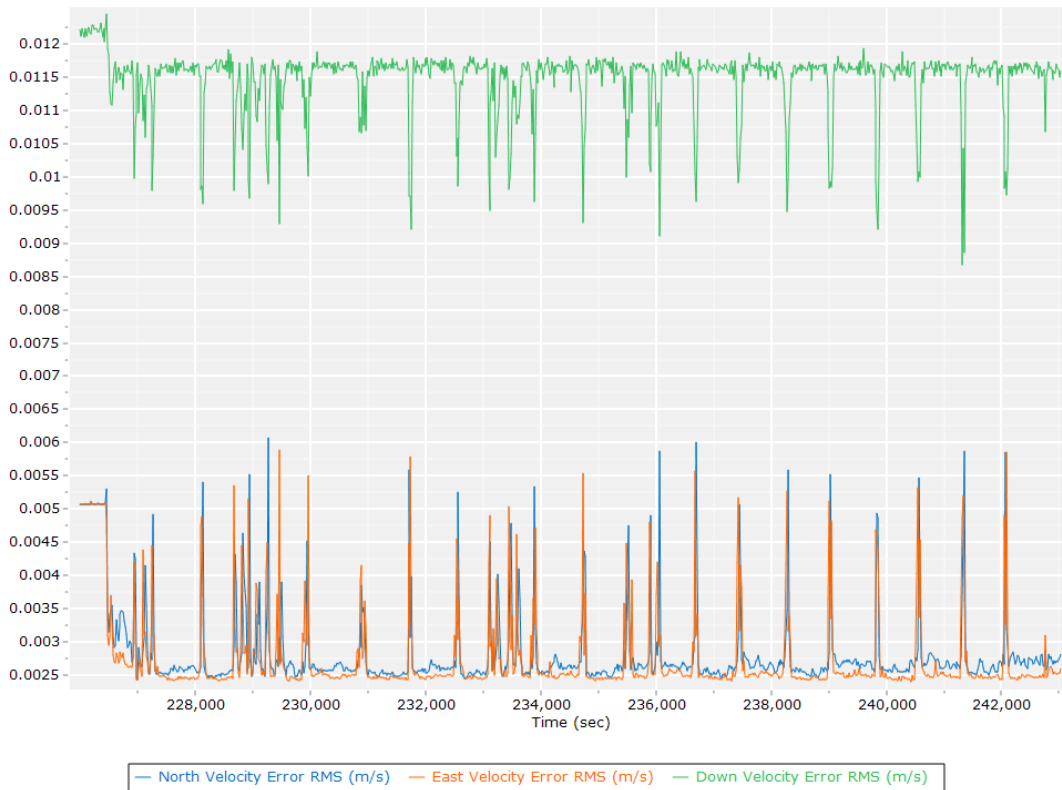


Smoothed Performance Metrics

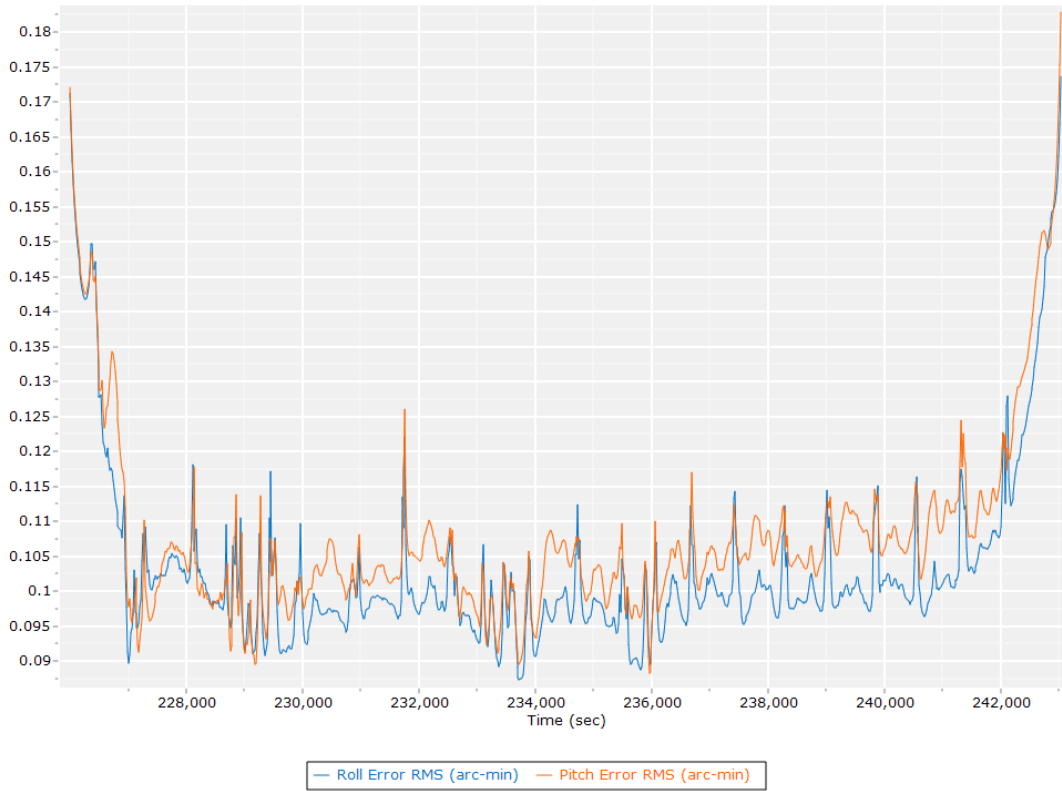
Position Error RMS (m)



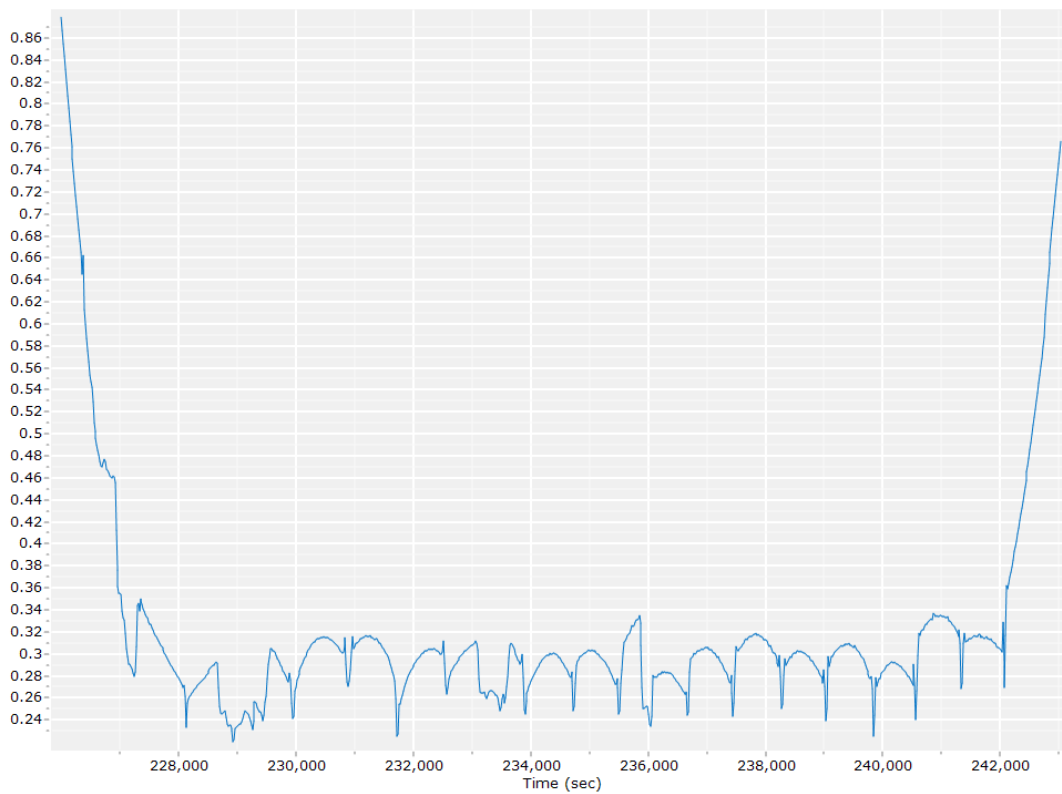
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

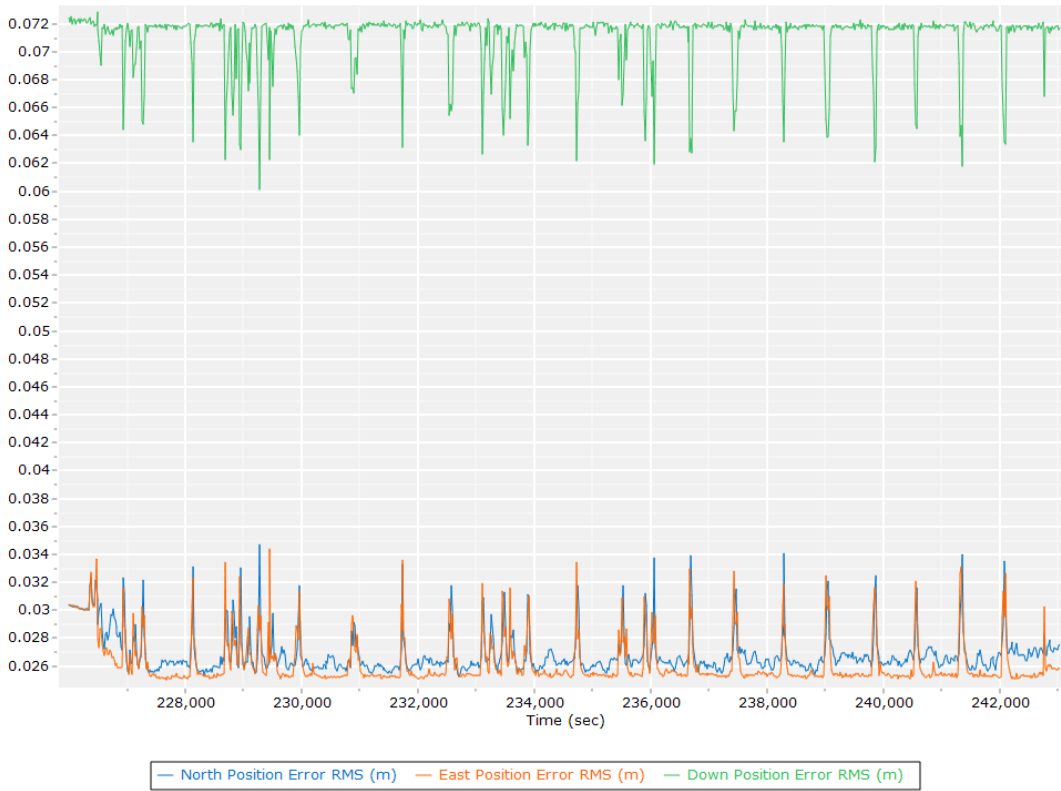


Heading Error RMS (arc-min)

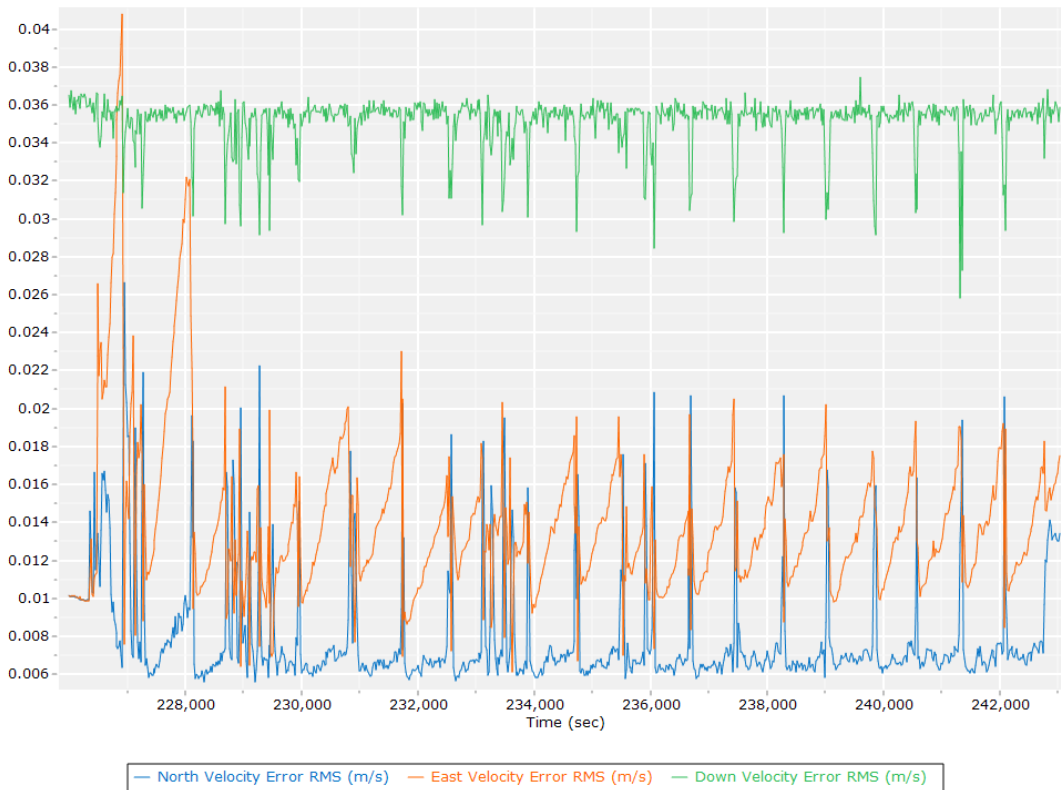


Forward Processed Performance Metrics

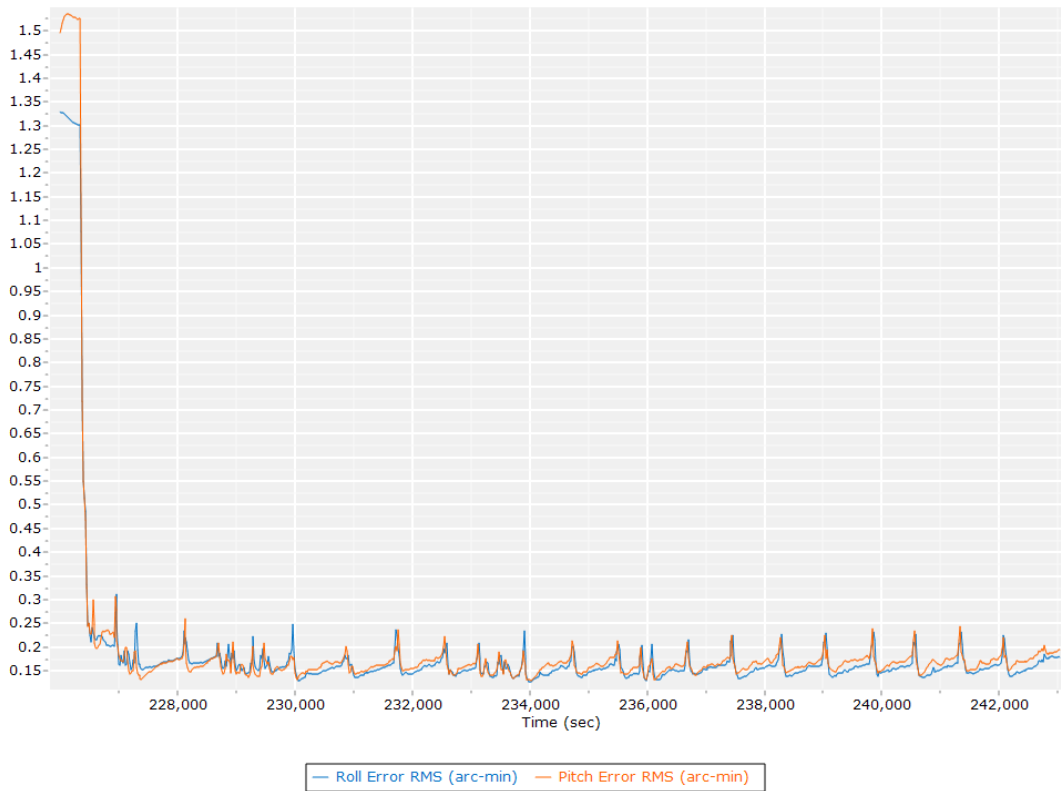
Position Error RMS (m)



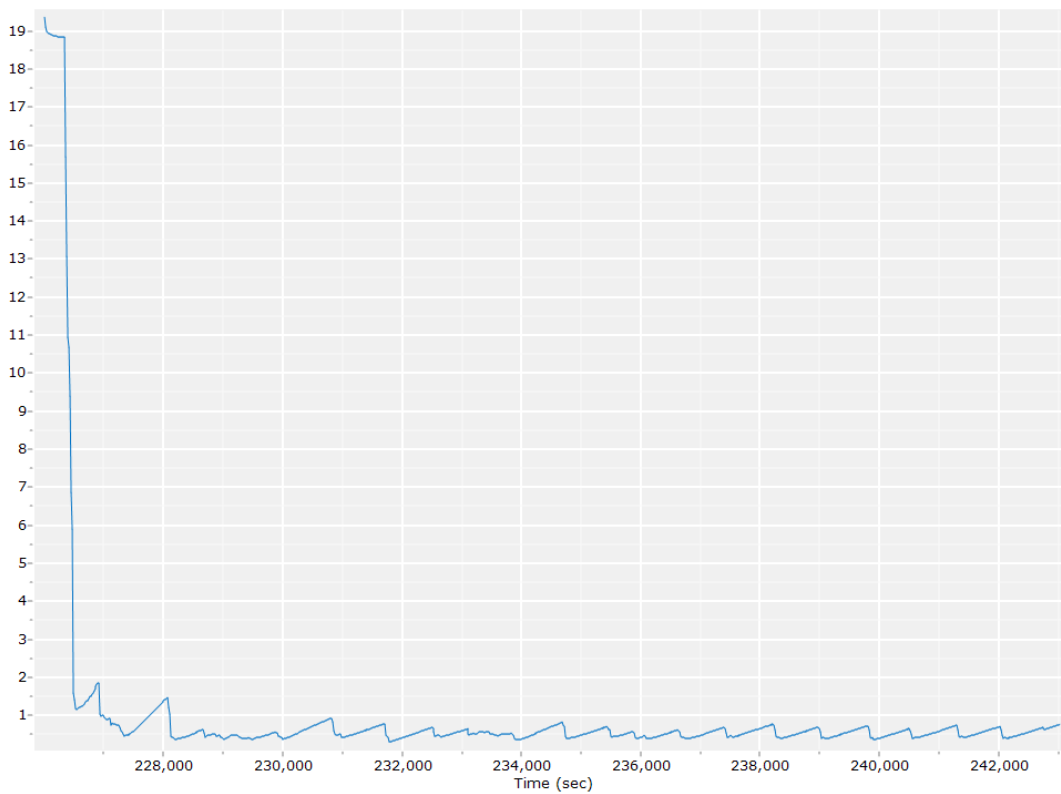
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

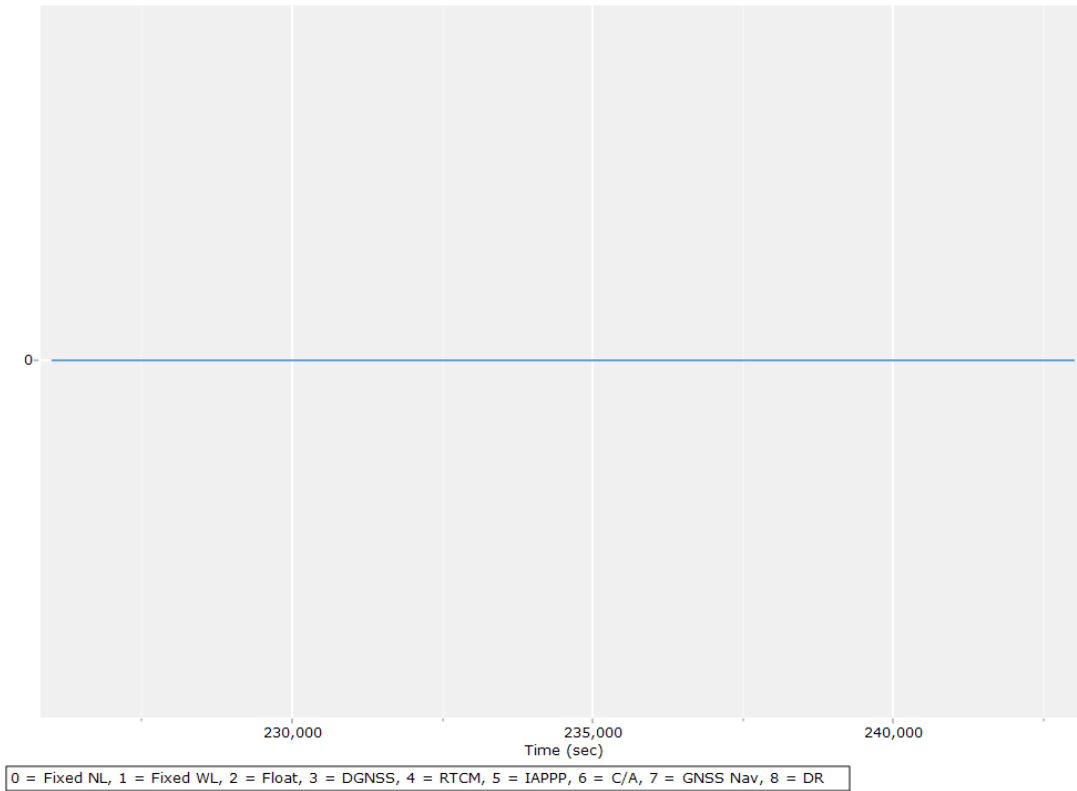


Heading Error RMS (arc-min)

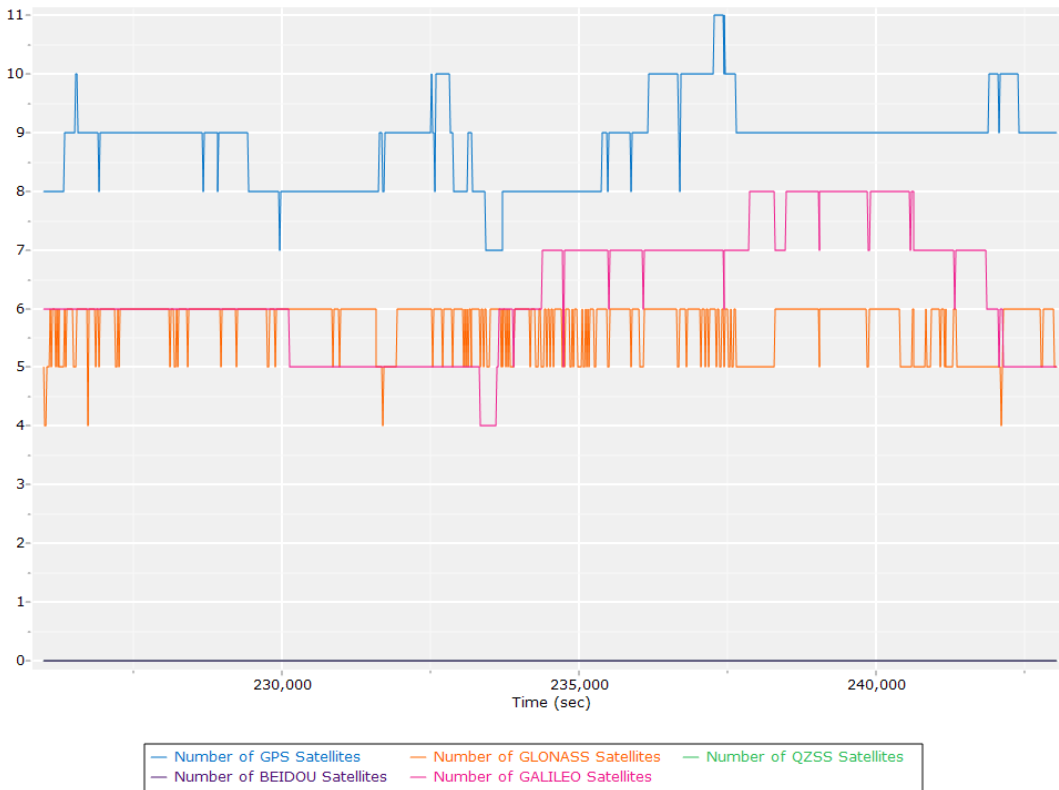


Forward Processed Solution Status

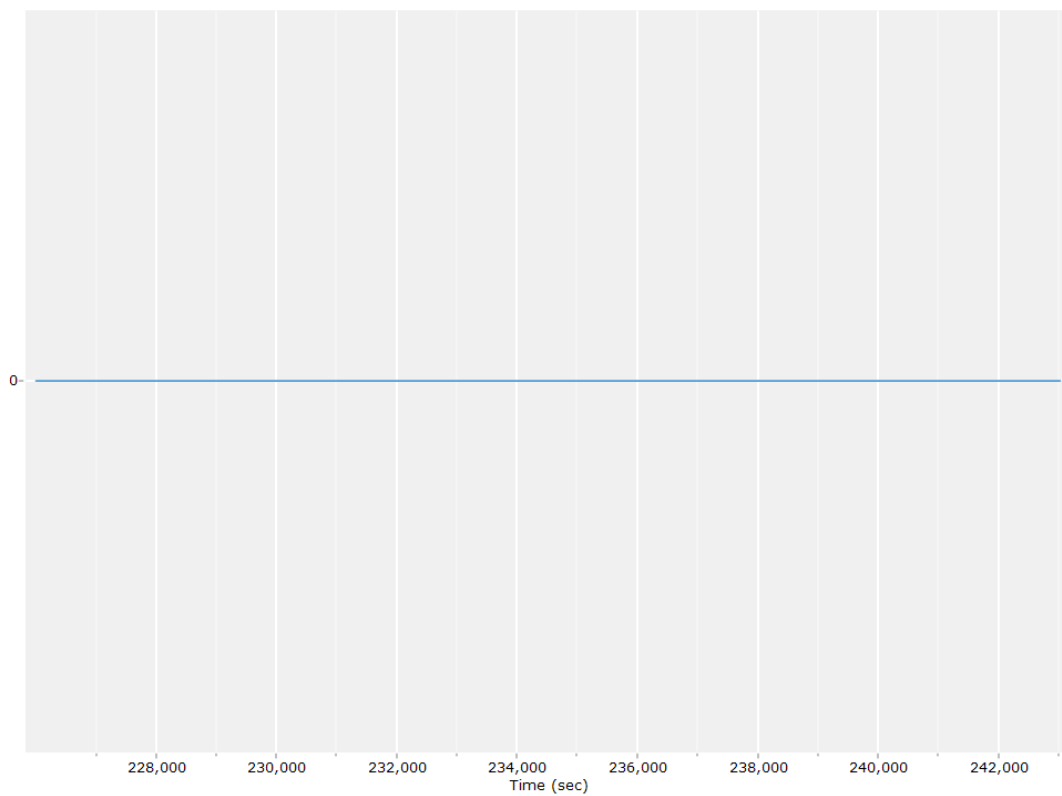
Processing Mode



Number of Satellites



Baseline Length



General Information

Mission Information

Project name	23022_Mohave_QL1_20230316_T2L1_pprtx
Processing date	2023-03-20 17:52:58
Mission date	2023-03-16 14:21:25
Mission duration	03:46:15.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey1.pos	POS Data

Input Files

File Name	File Type
Ephm0750.23g	GLONASS Broadcast Ephemeris
Ephm0750.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey1.pos		
Last raw data file	survey1.pos		
Start GPS week	2253		
Start time	397284.649 (03/16/2023 14:21:24)		
End time	410995.970 (03/16/2023 18:09:55)		
Start of fine alignment	397285.185 (03/16/2023 14:21:25)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

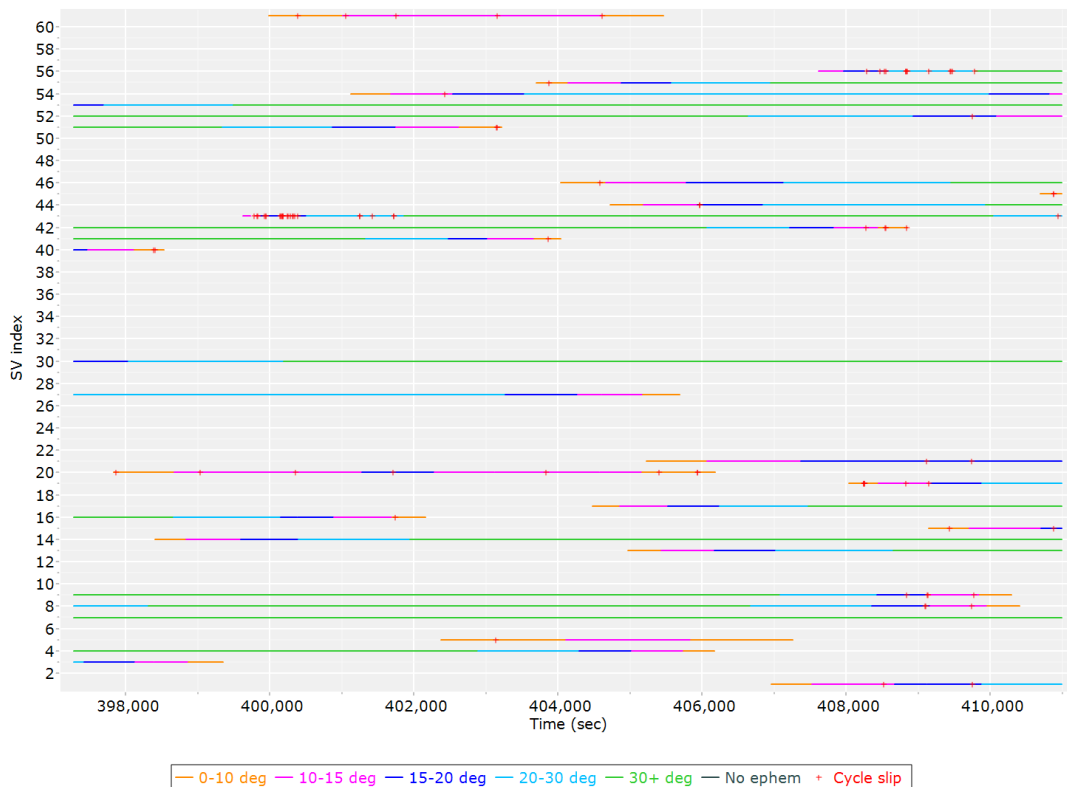
Rover Data QC

Raw IMU Import QC Summary

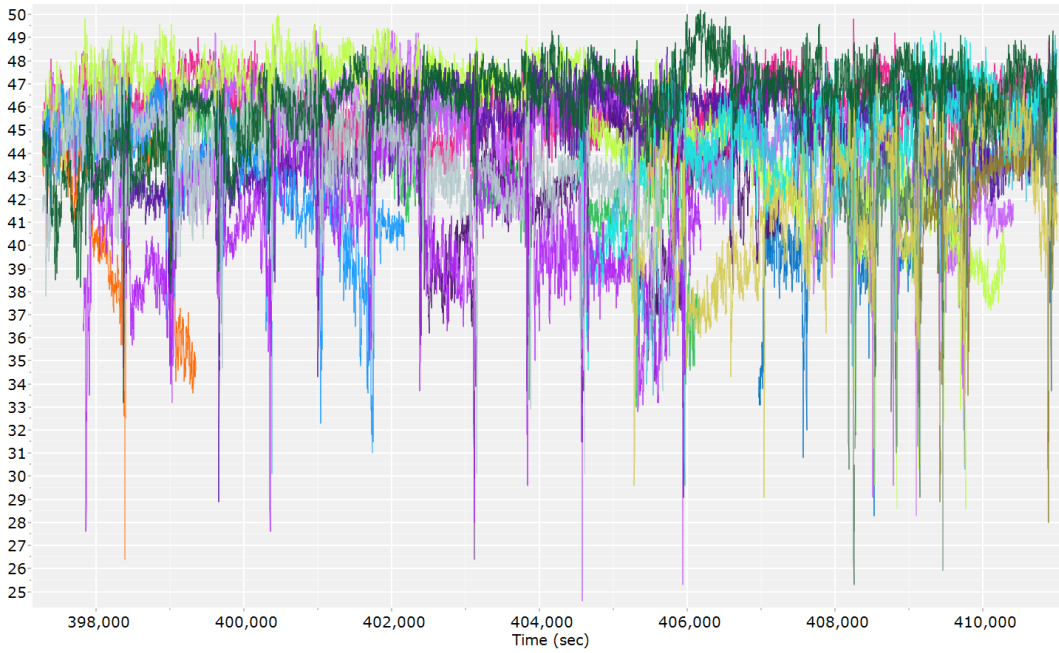
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	2741692
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

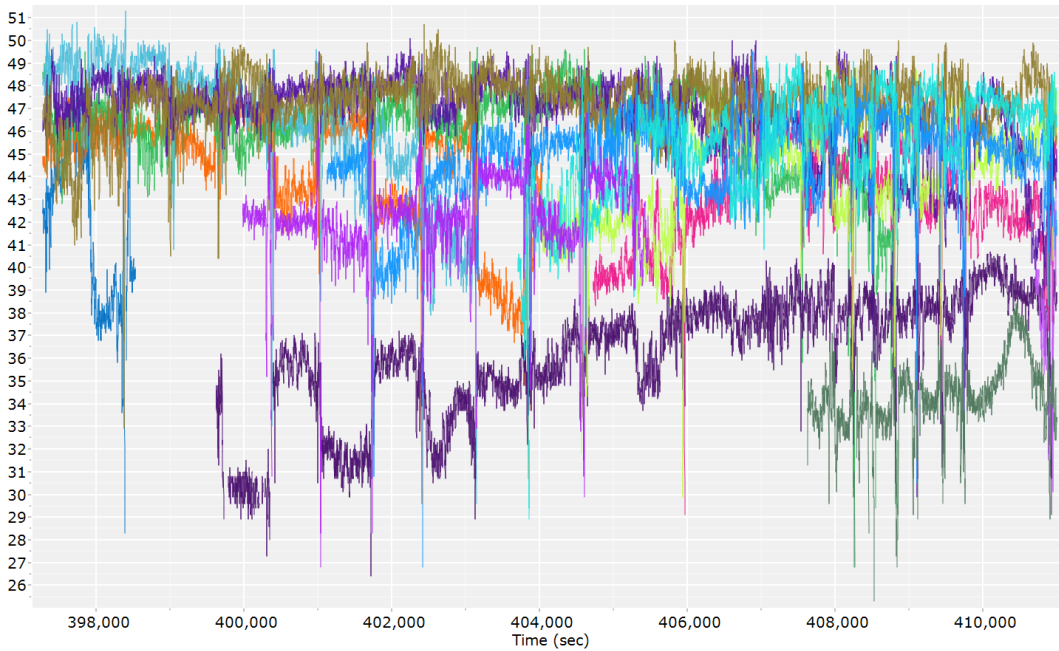


GPS L1 SNR



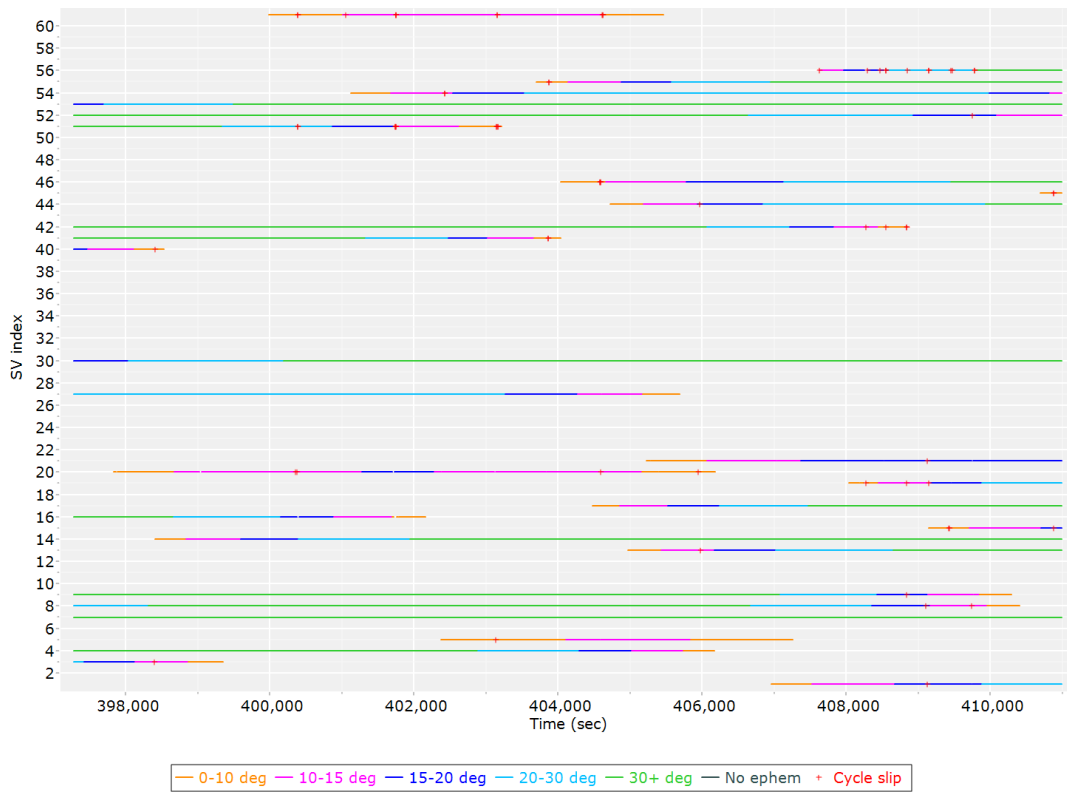
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 01 L1 SNR (dB/Hz) | GPS PRN 03 L1 SNR (dB/Hz) | GPS PRN 04 L1 SNR (dB/Hz) | GPS PRN 05 L1 SNR (dB/Hz) |
| GPS PRN 07 L1 SNR (dB/Hz) | GPS PRN 08 L1 SNR (dB/Hz) | GPS PRN 09 L1 SNR (dB/Hz) | GPS PRN 13 L1 SNR (dB/Hz) |
| GPS PRN 14 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) | GPS PRN 16 L1 SNR (dB/Hz) | GPS PRN 17 L1 SNR (dB/Hz) |
| GPS PRN 19 L1 SNR (dB/Hz) | GPS PRN 20 L1 SNR (dB/Hz) | GPS PRN 21 L1 SNR (dB/Hz) | GPS PRN 27 L1 SNR (dB/Hz) |
| GPS PRN 30 L1 SNR (dB/Hz) | | | |

GLONASS L1 SNR

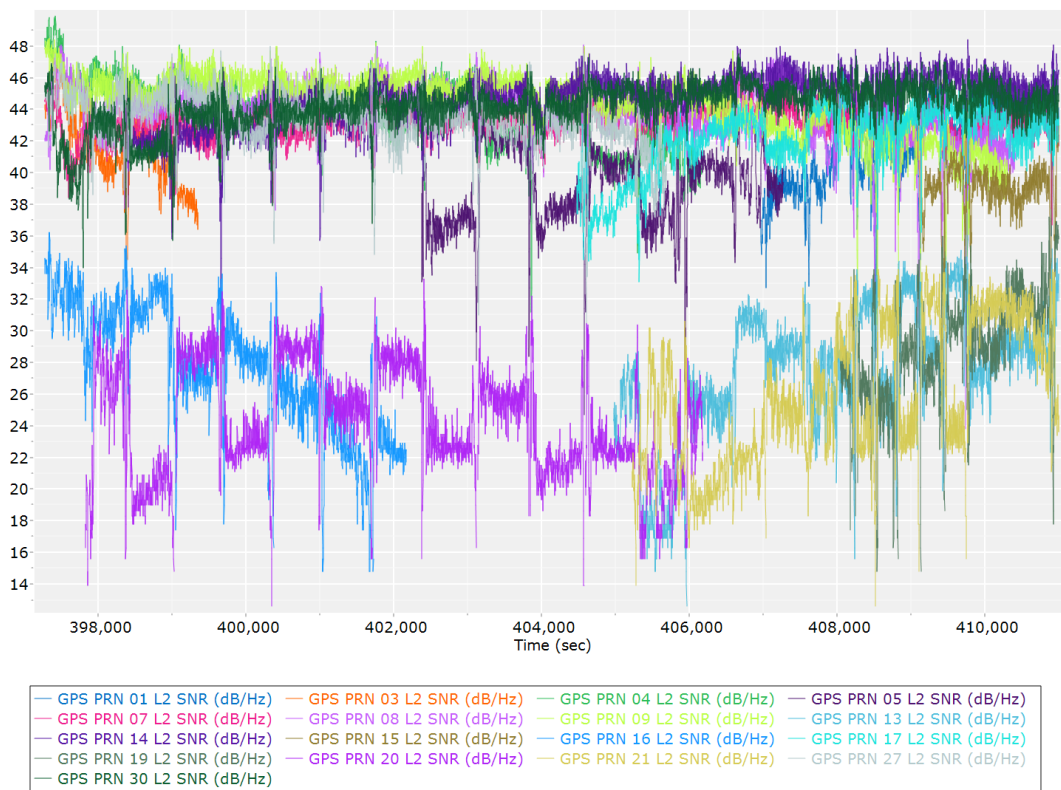


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 03 L1 SNR (dB/Hz) | GLONASS 04 L1 SNR (dB/Hz) | GLONASS 05 L1 SNR (dB/Hz) |
| GLONASS 06 L1 SNR (dB/Hz) | GLONASS 07 L1 SNR (dB/Hz) | GLONASS 08 L1 SNR (dB/Hz) |
| GLONASS 09 L1 SNR (dB/Hz) | GLONASS 14 L1 SNR (dB/Hz) | GLONASS 15 L1 SNR (dB/Hz) |
| GLONASS 16 L1 SNR (dB/Hz) | GLONASS 17 L1 SNR (dB/Hz) | GLONASS 18 L1 SNR (dB/Hz) |
| GLONASS 19 L1 SNR (dB/Hz) | GLONASS 24 L1 SNR (dB/Hz) | |

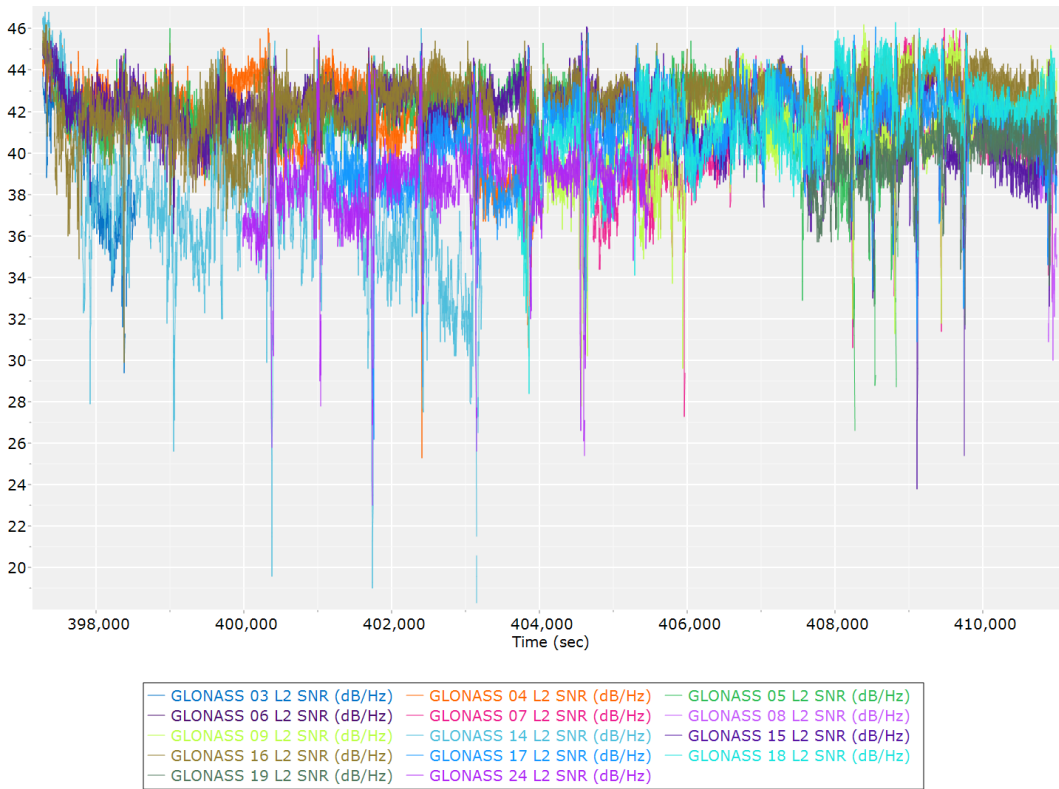
GPS/GLONASS L2 Satellite Lock/Elevation



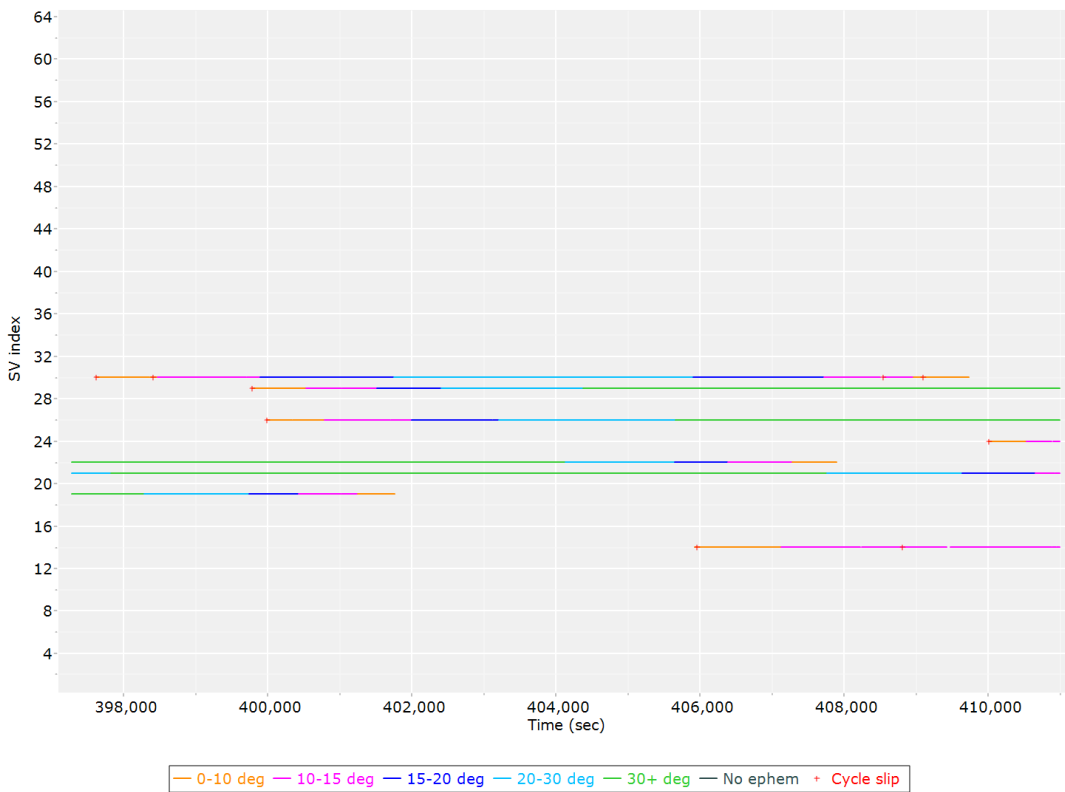
GPS L2 SNR



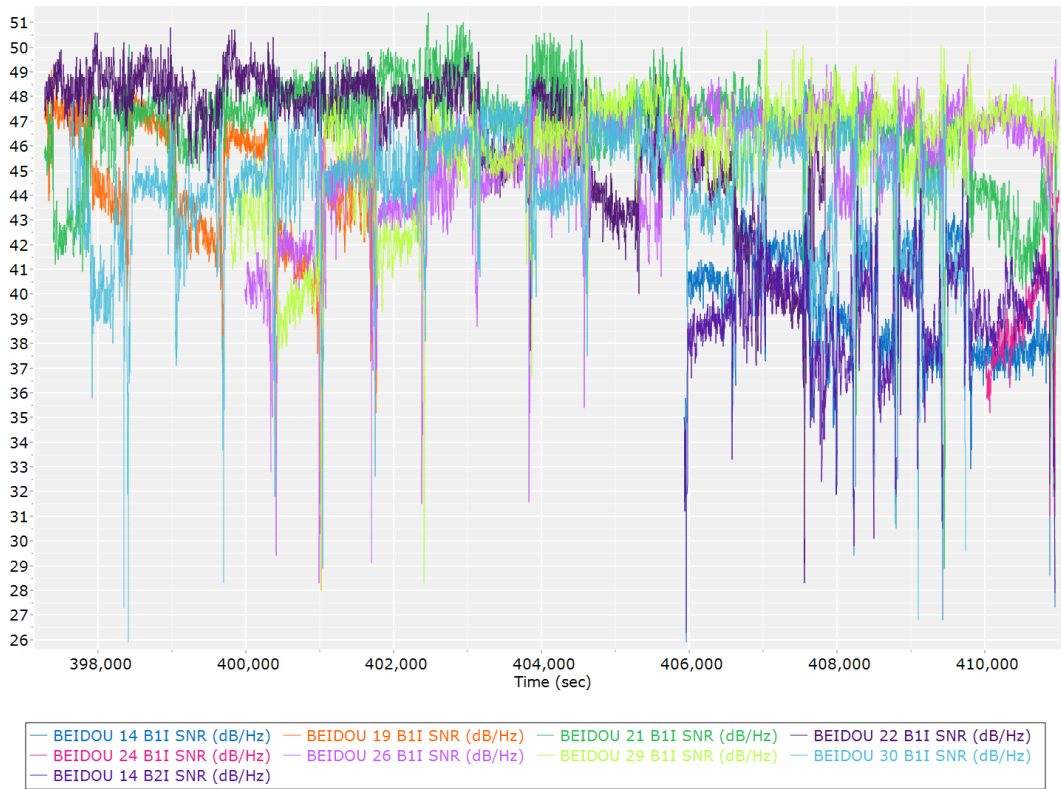
GLONASS L2 SNR



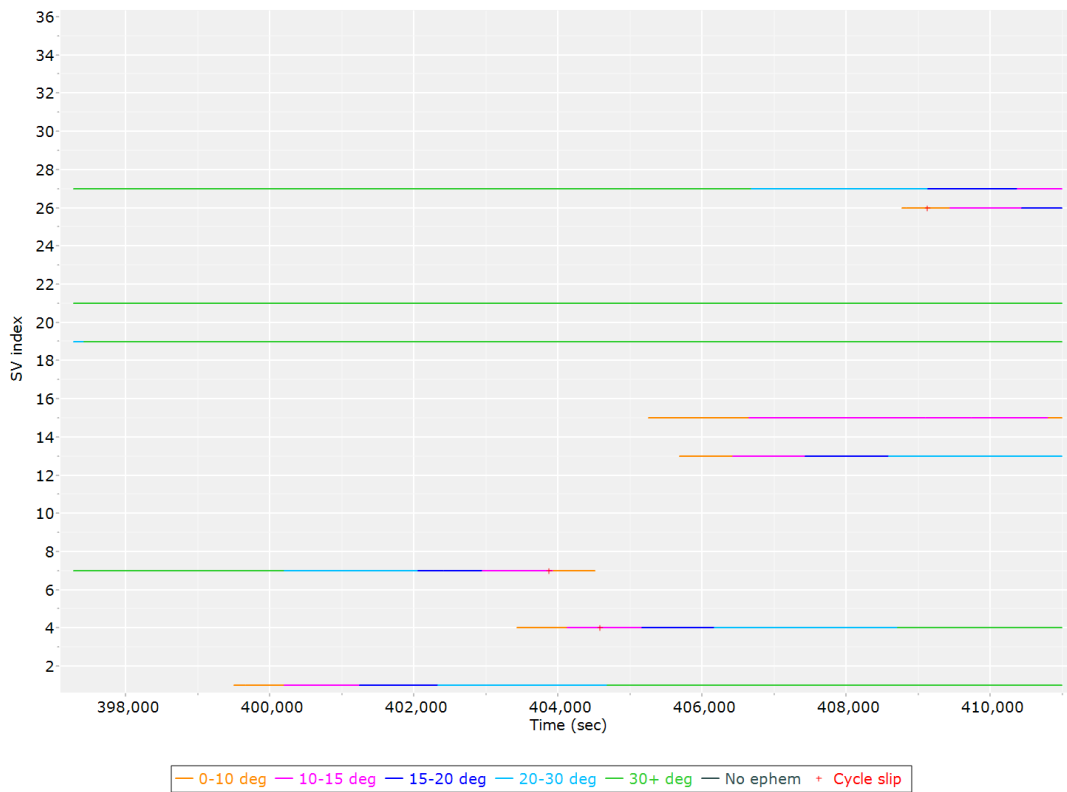
BEIDOU Satellite Lock/Elevation



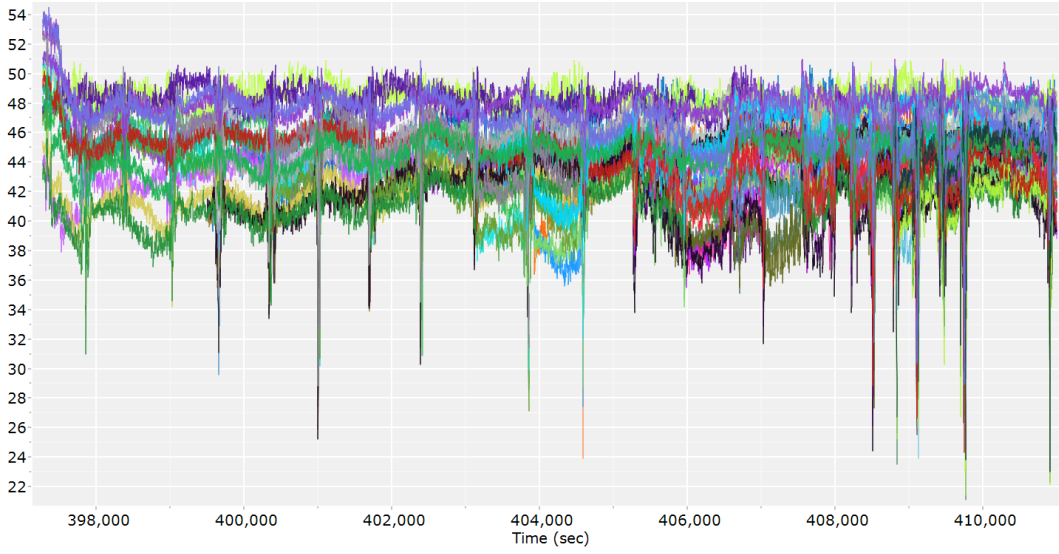
BEIDOU SNR



GALILEO Satellite Lock/Elevation



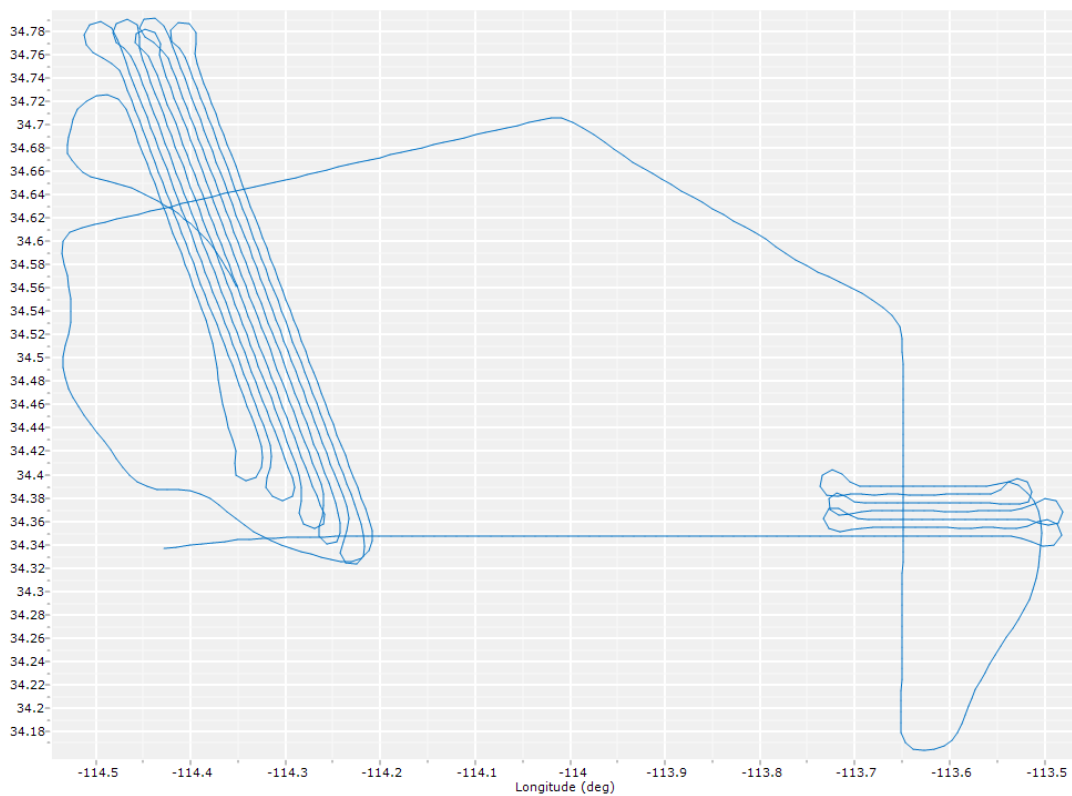
GALILEO SNR



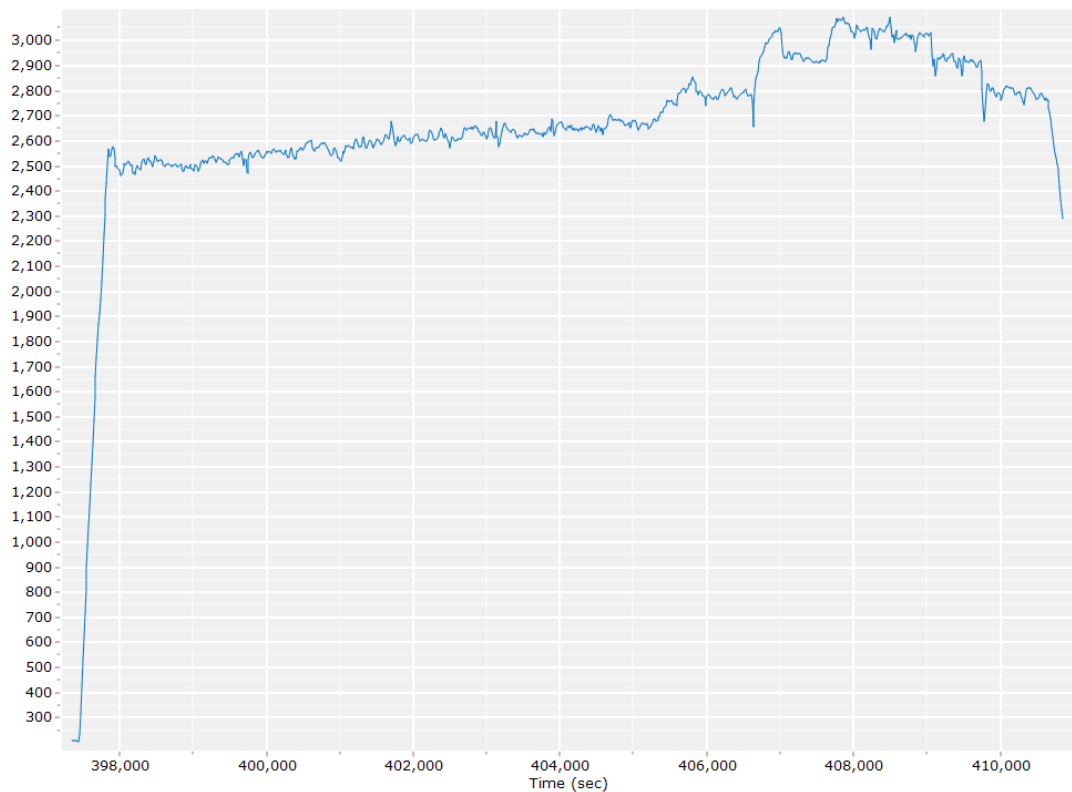
— GALILEO 01 E1CBOC SNR (dB/Hz)	— GALILEO 04 E1CBOC SNR (dB/Hz)	— GALILEO 07 E1CBOC SNR (dB/Hz)
— GALILEO 13 E1CBOC SNR (dB/Hz)	— GALILEO 15 E1CBOC SNR (dB/Hz)	— GALILEO 19 E1CBOC SNR (dB/Hz)
— GALILEO 21 E1CBOC SNR (dB/Hz)	— GALILEO 26 E1CBOC SNR (dB/Hz)	— GALILEO 27 E1CBOC SNR (dB/Hz)
— GALILEO 01 E5A SNR (dB/Hz)	— GALILEO 04 E5A SNR (dB/Hz)	— GALILEO 07 E5A SNR (dB/Hz)
— GALILEO 13 E5A SNR (dB/Hz)	— GALILEO 15 E5A SNR (dB/Hz)	— GALILEO 19 E5A SNR (dB/Hz)
— GALILEO 21 E5A SNR (dB/Hz)	— GALILEO 26 E5A SNR (dB/Hz)	— GALILEO 27 E5A SNR (dB/Hz)
— GALILEO 01 E5B SNR (dB/Hz)	— GALILEO 04 E5B SNR (dB/Hz)	— GALILEO 07 E5B SNR (dB/Hz)
— GALILEO 13 E5B SNR (dB/Hz)	— GALILEO 15 E5B SNR (dB/Hz)	— GALILEO 19 E5B SNR (dB/Hz)
— GALILEO 21 E5B SNR (dB/Hz)	— GALILEO 26 E5B SNR (dB/Hz)	— GALILEO 27 E5B SNR (dB/Hz)
— GALILEO 01 E5Alt SNR (dB/Hz)	— GALILEO 04 E5Alt SNR (dB/Hz)	— GALILEO 07 E5Alt SNR (dB/Hz)

Smoothed Trajectory Information

Top View



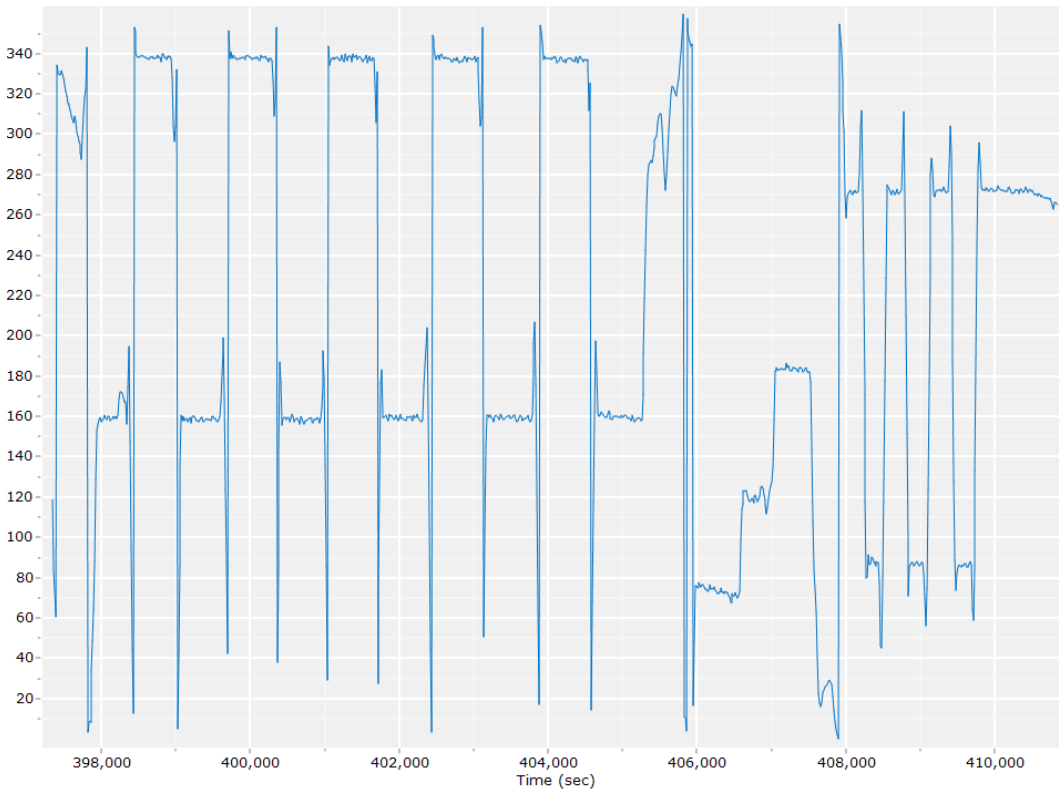
Altitude



Roll/Pitch



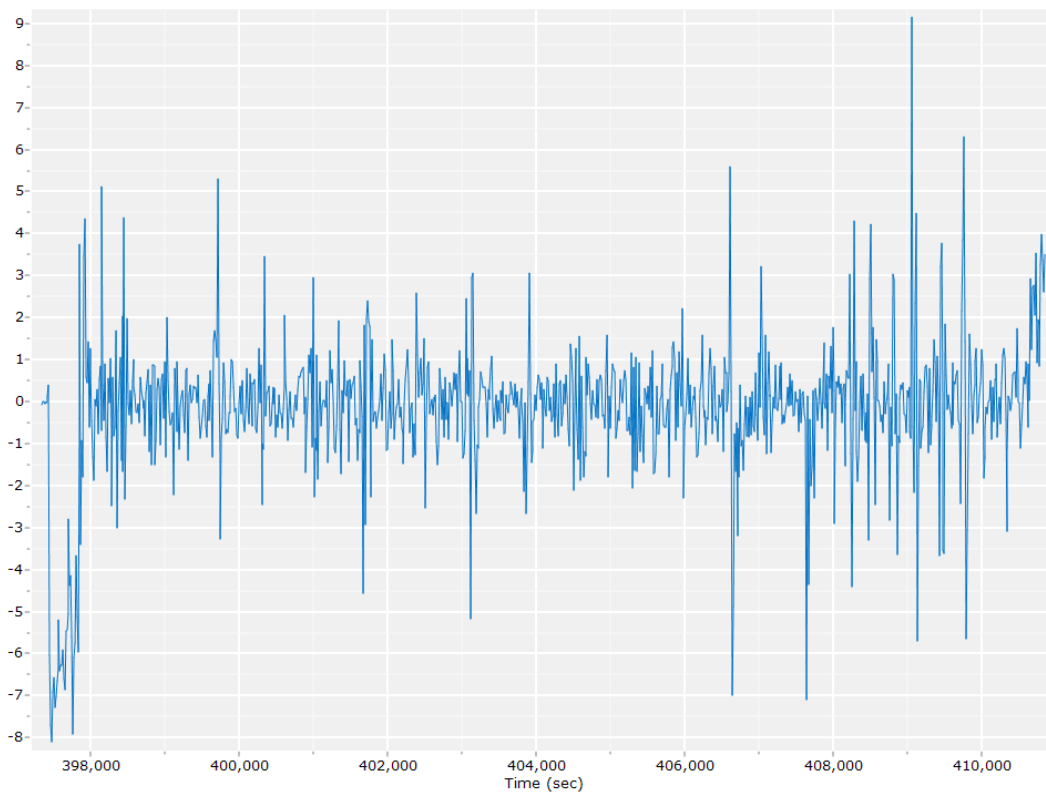
Heading



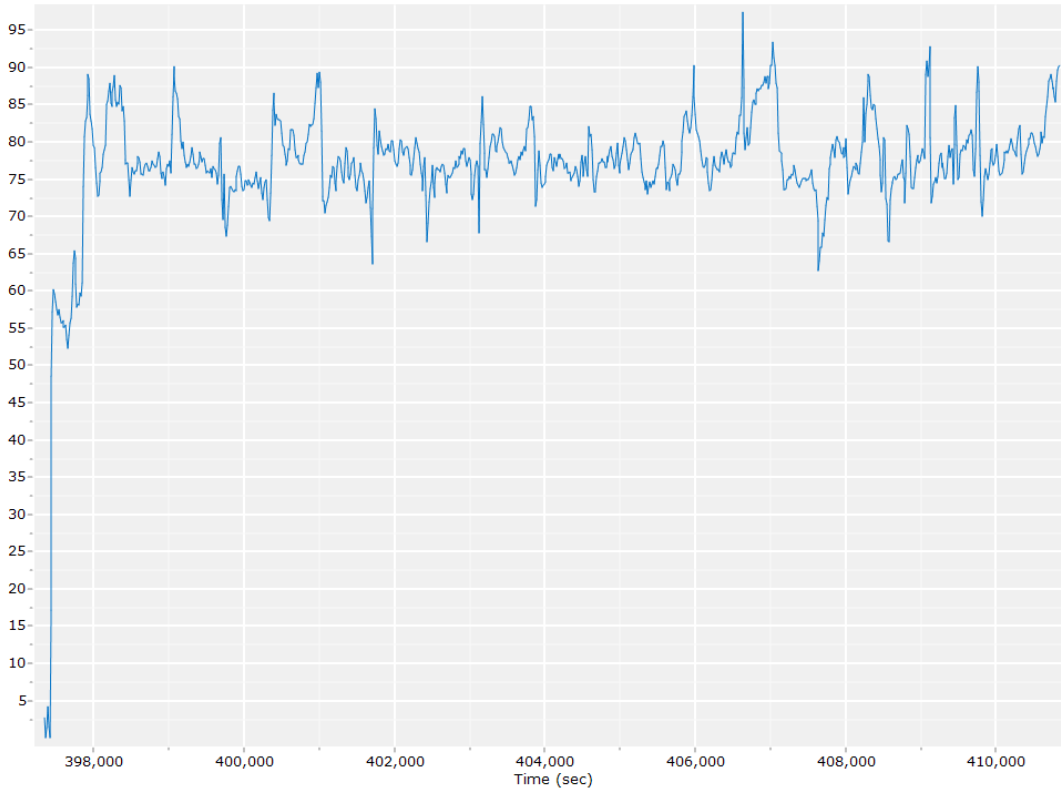
North/East Velocity



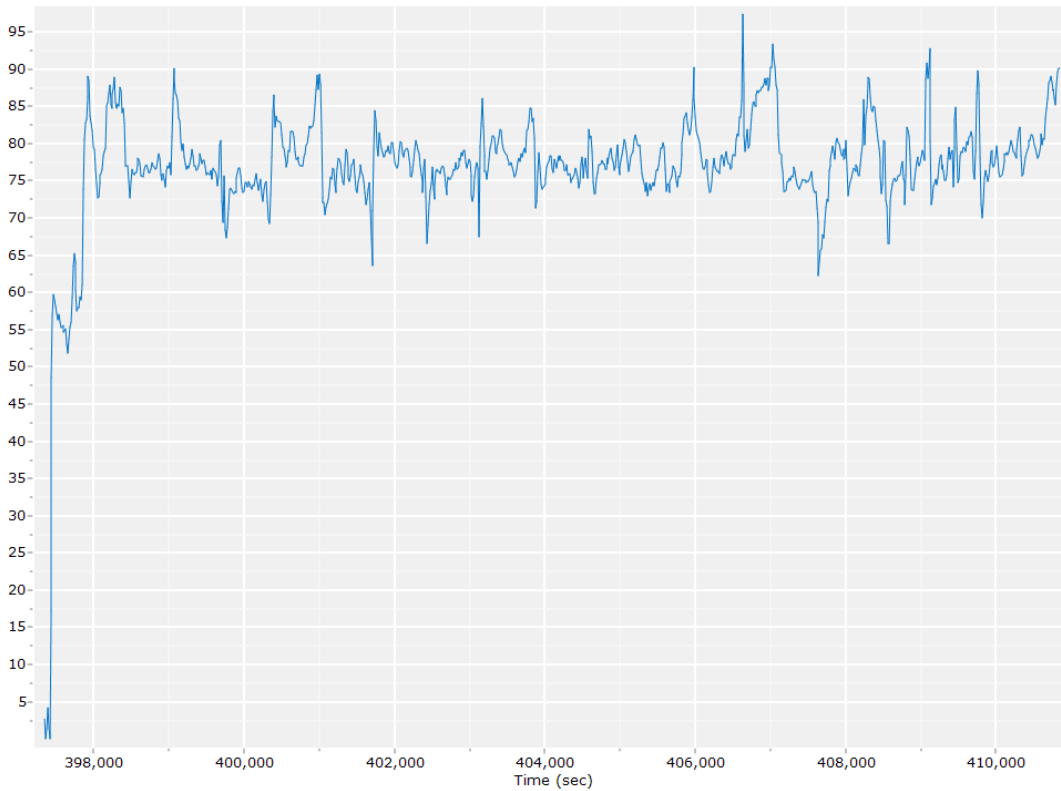
Down Velocity



Total Speed



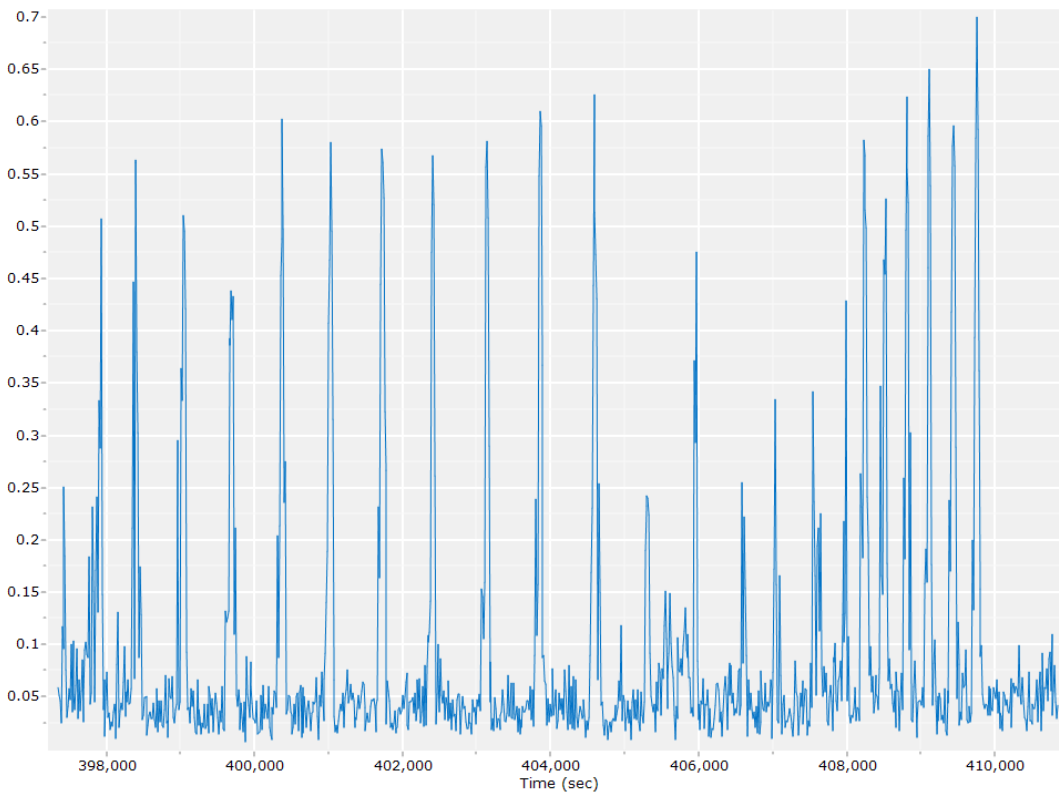
Ground Speed



Body Acceleration



Total Body Acceleration

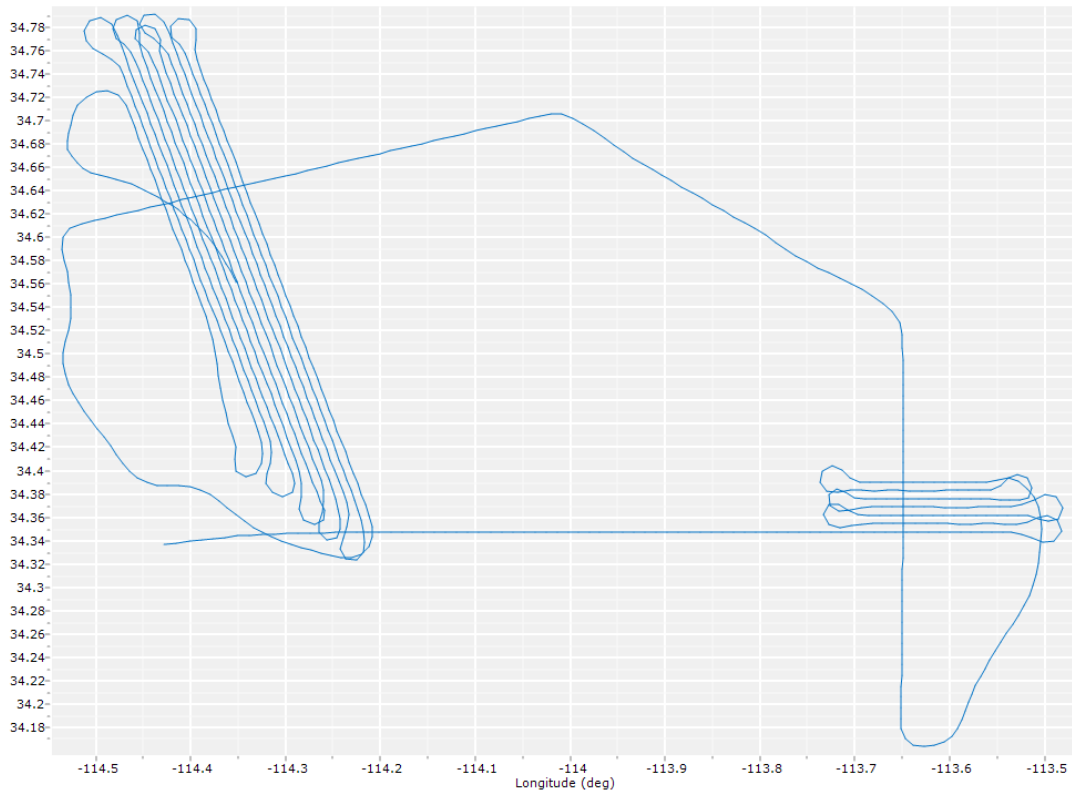


Body Angular Rate

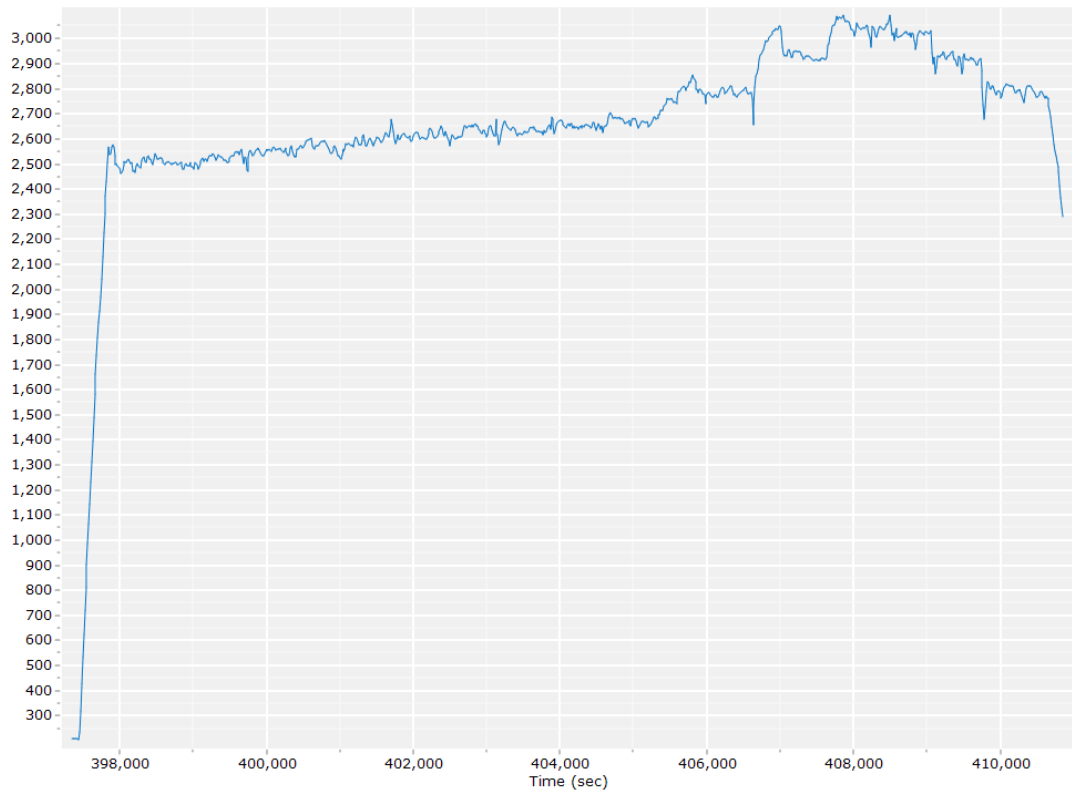


Forward Processed Trajectory Information

Top View



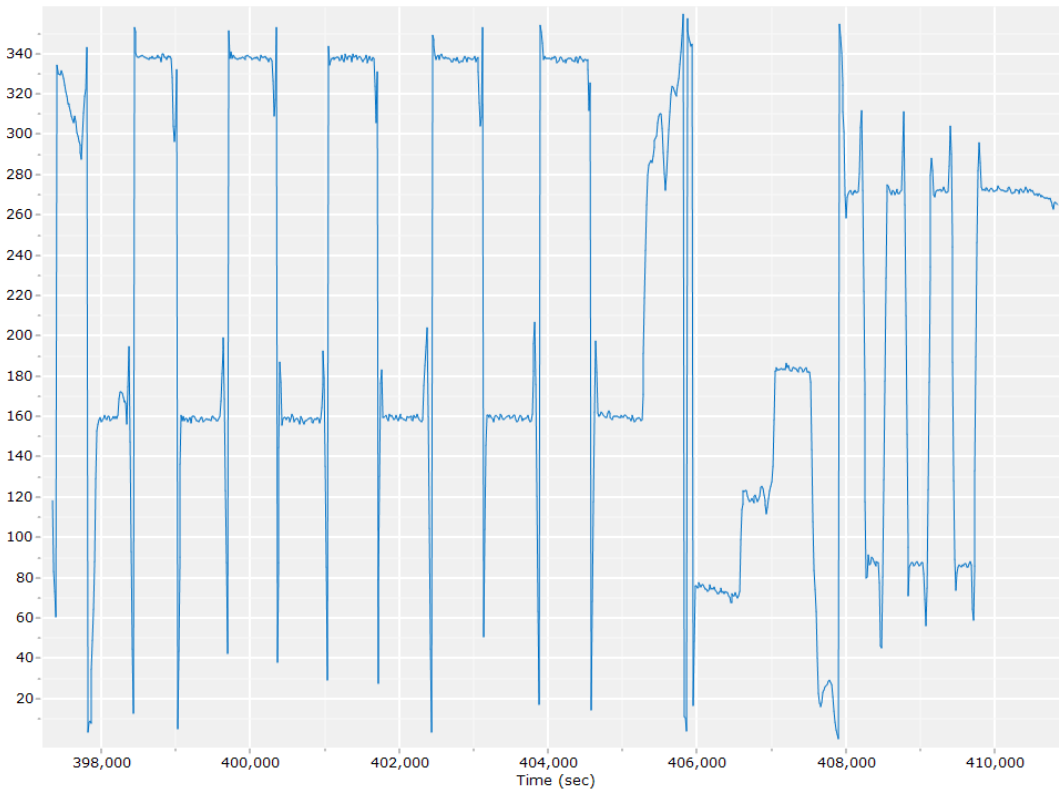
Altitude



Roll/Pitch



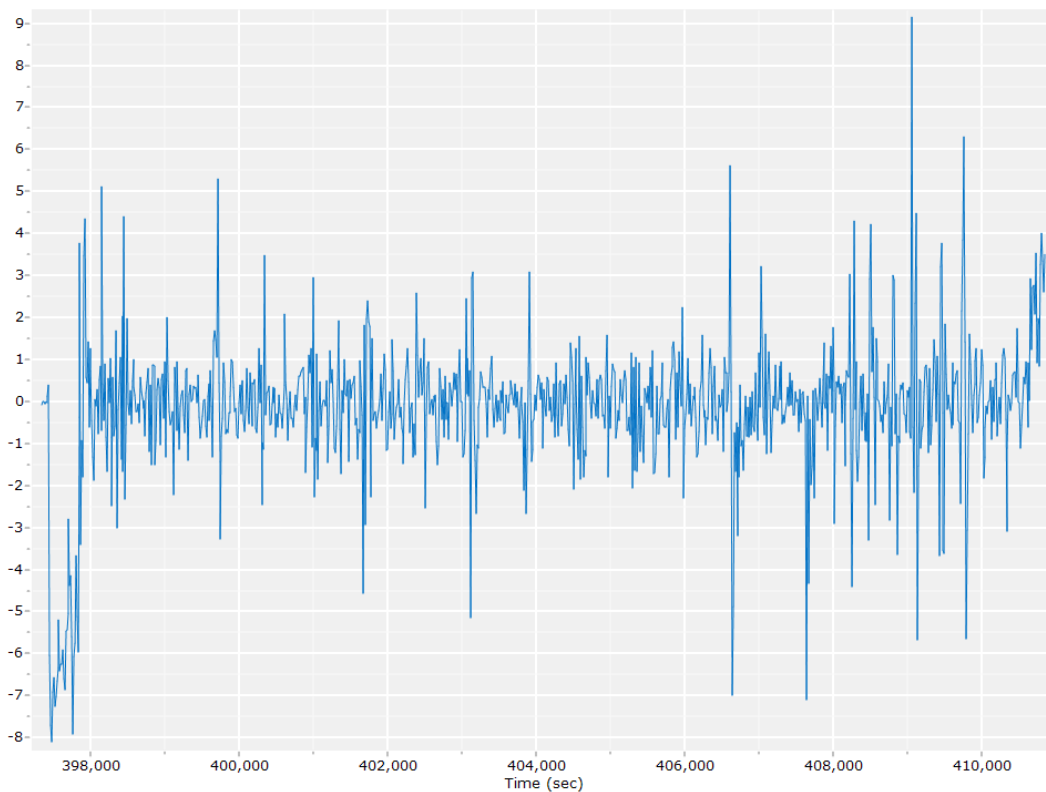
Heading



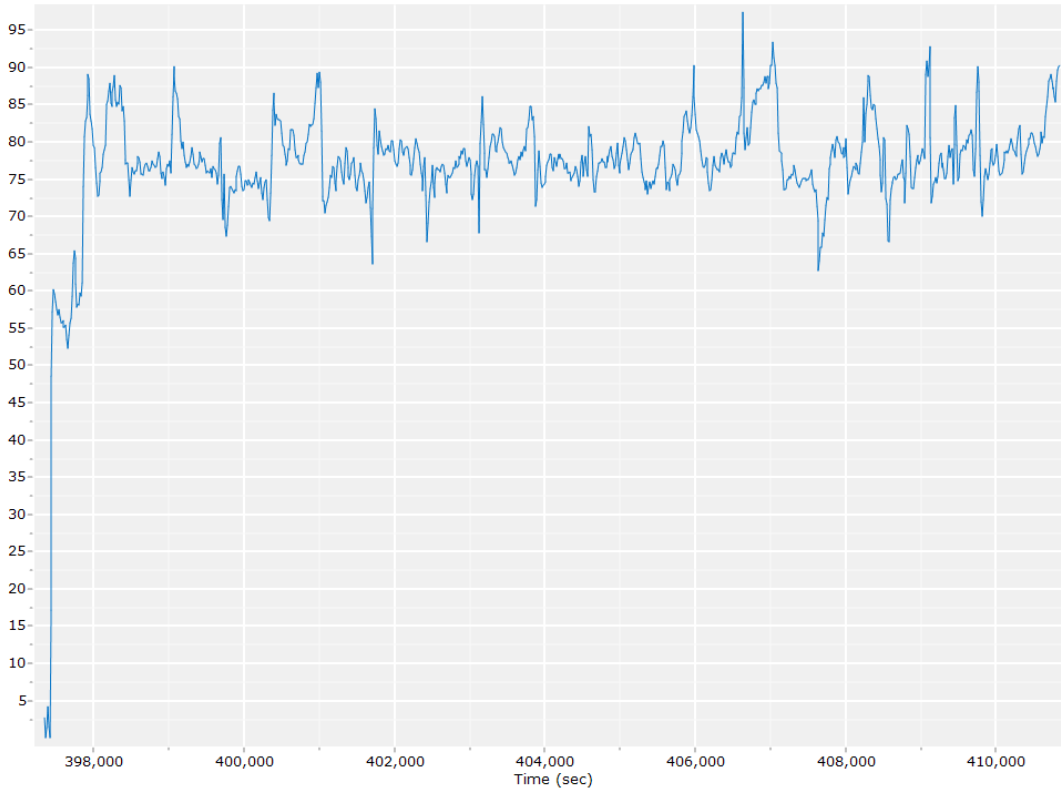
North/East Velocity



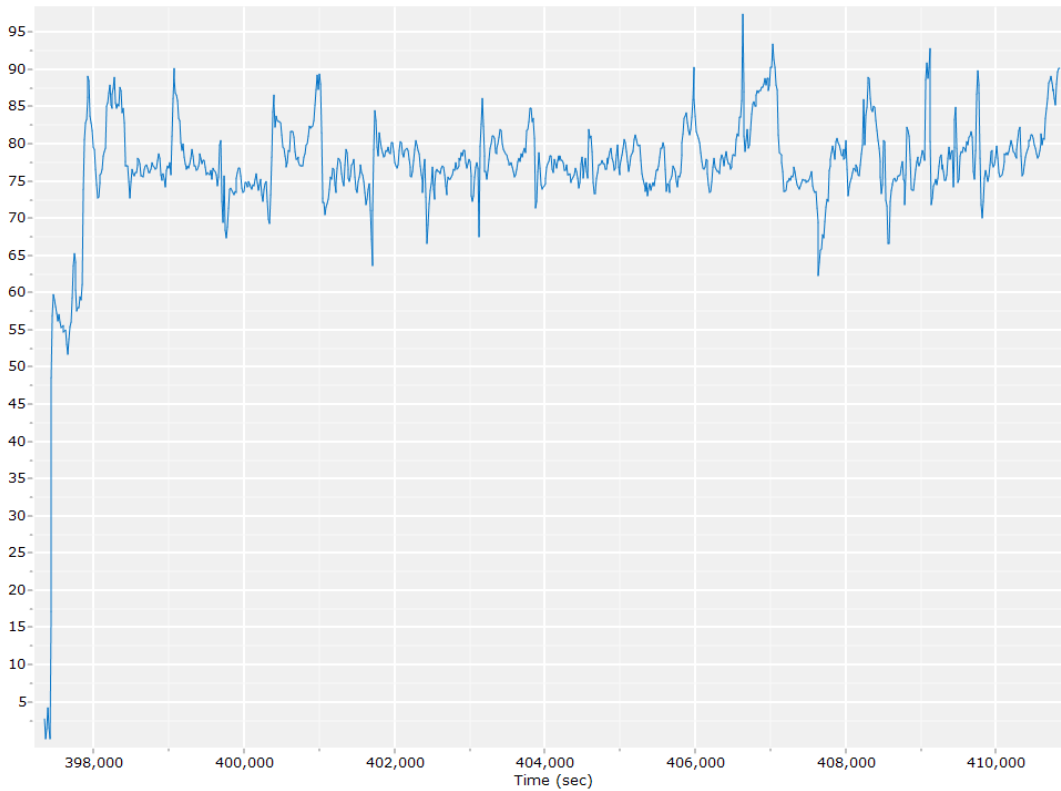
Down Velocity



Total Speed



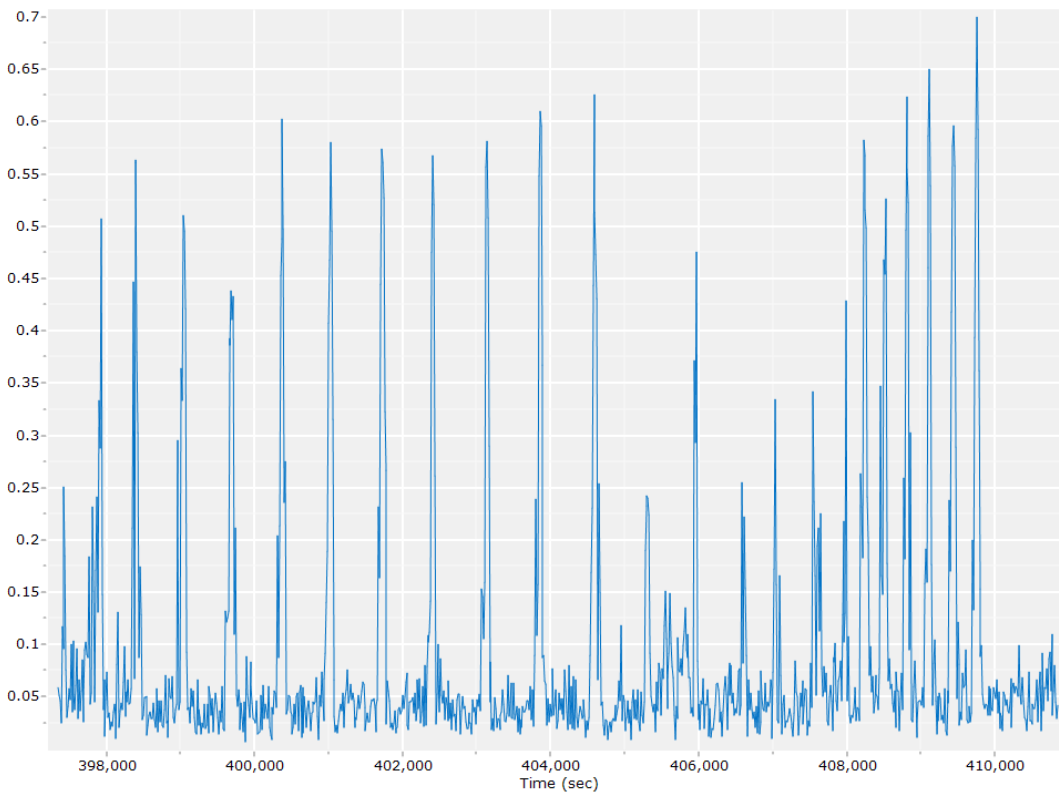
Ground Speed



Body Acceleration



Total Body Acceleration



Body Angular Rate



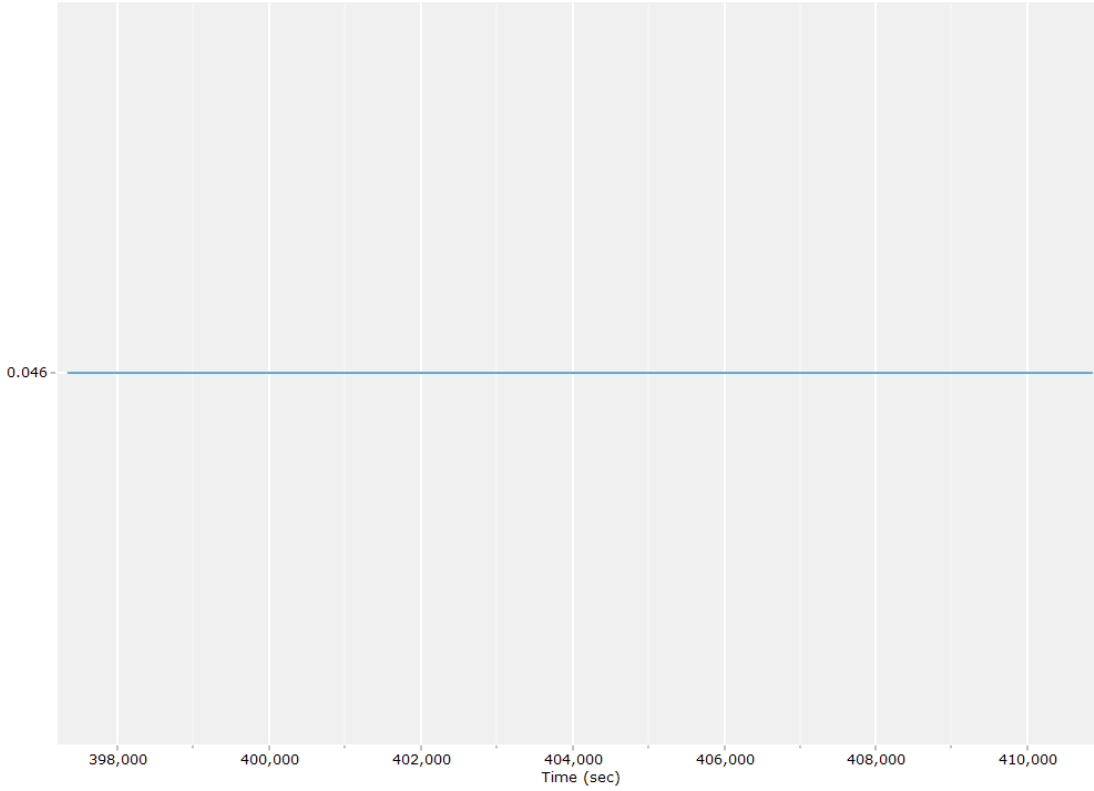
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	397285.000 (03/16/2023 14:21:25)		
Processing end time	410860.000 (03/16/2023 18:07:40)		
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)	0.046	-0.153	-0.934
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

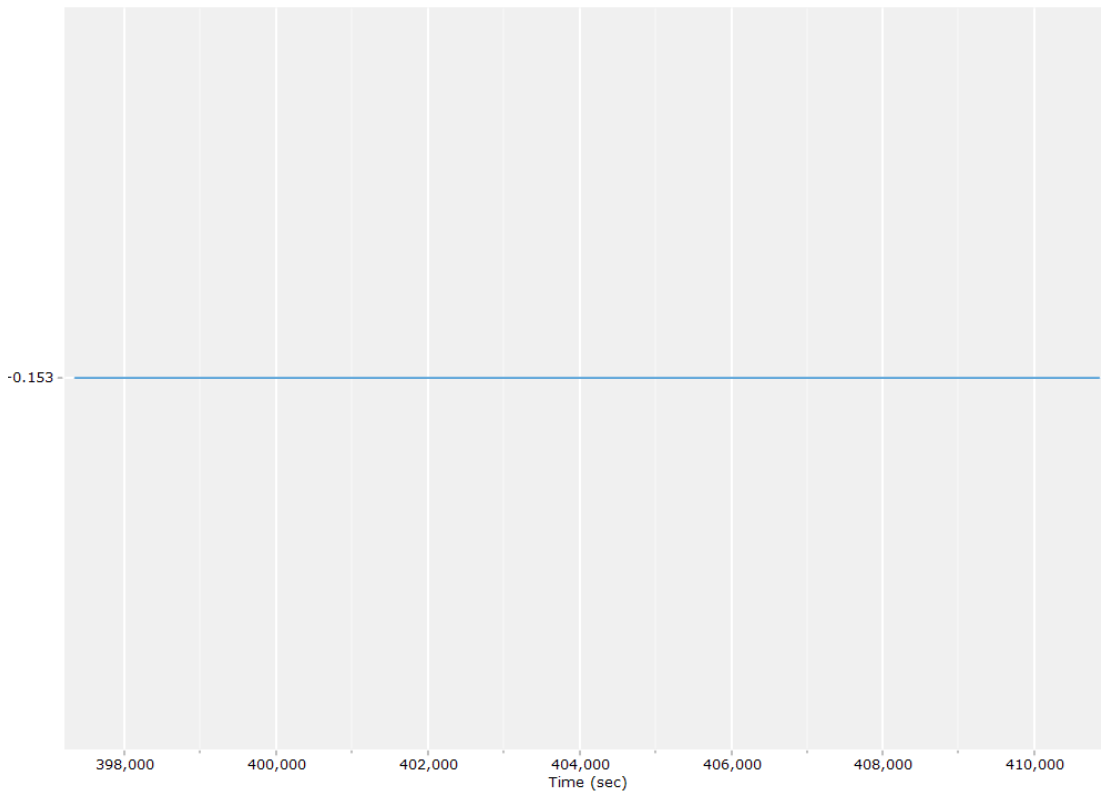
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

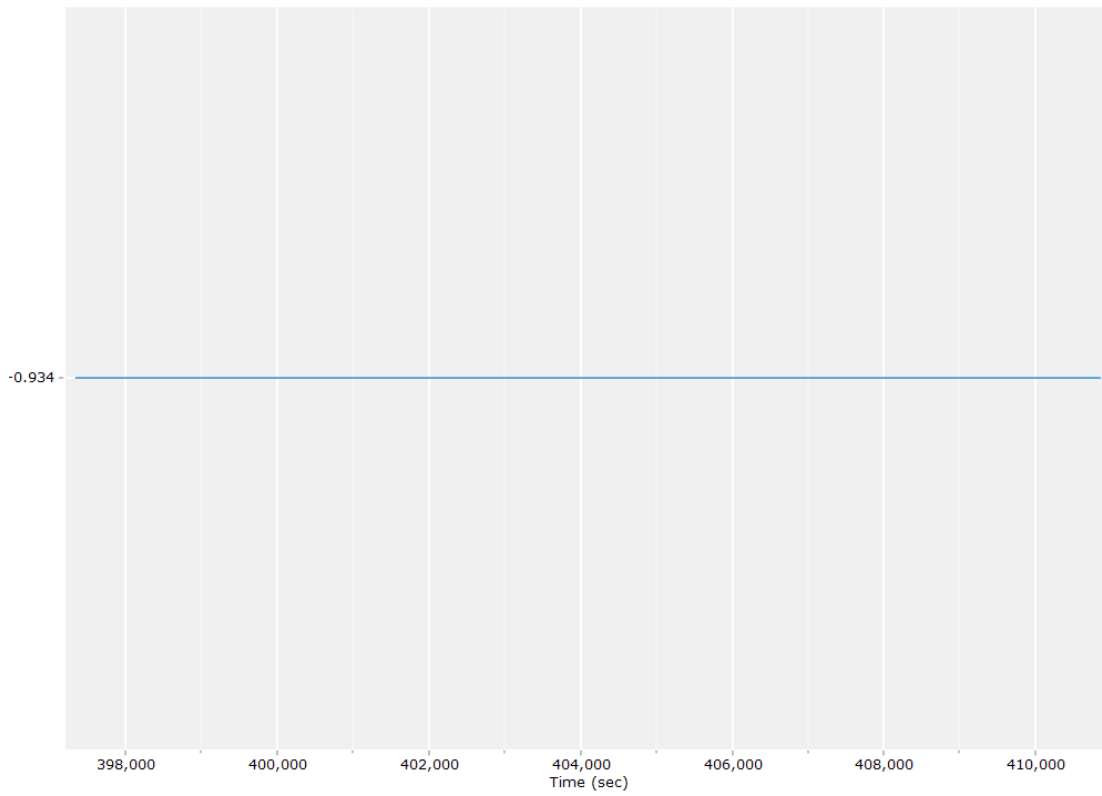
X Reference-Primary GNSS Lever Arm (m)



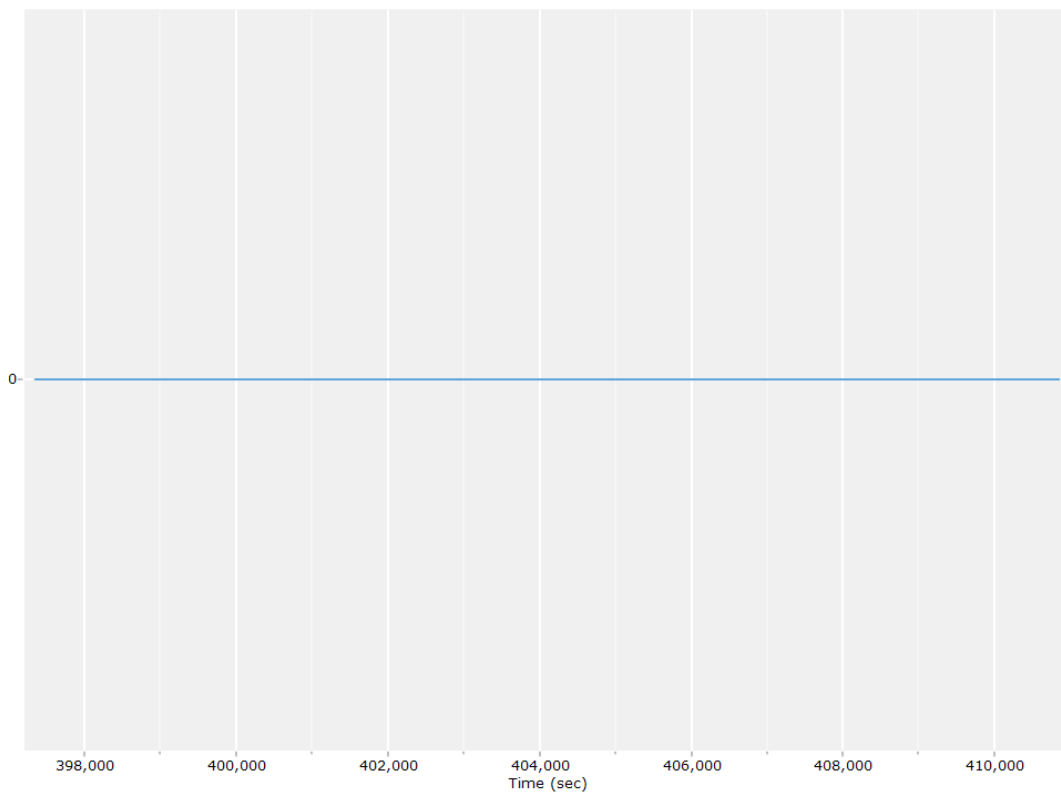
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



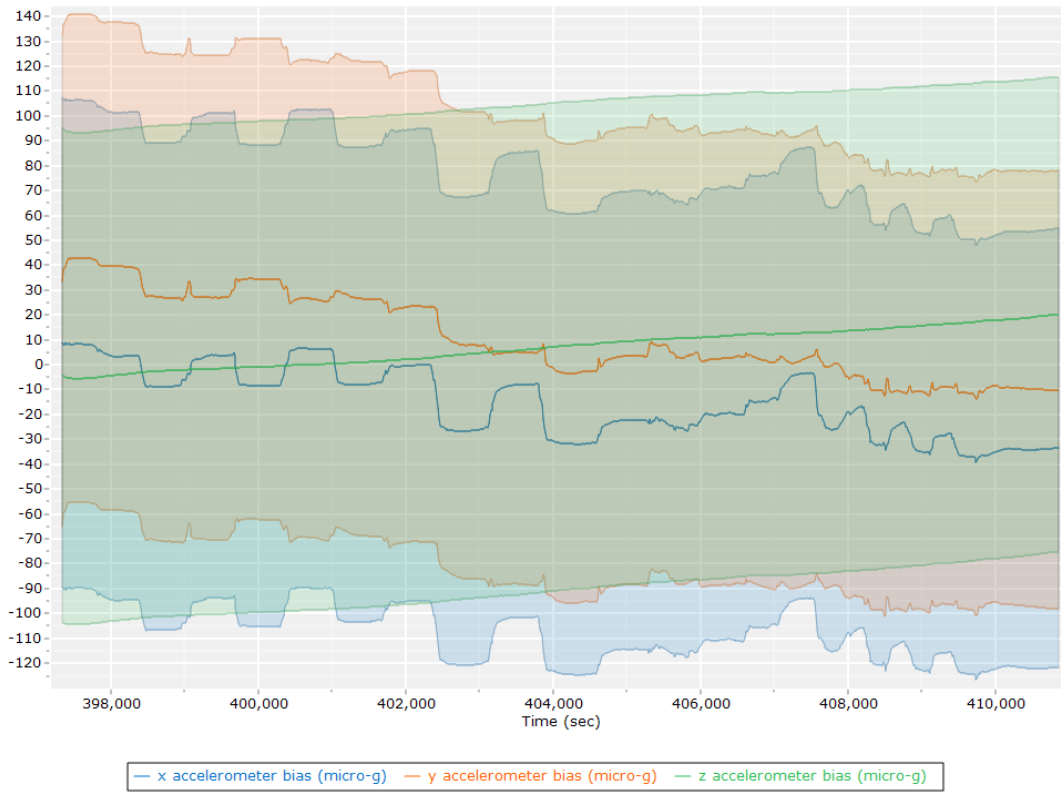
Reference-Primary GNSS Lever Arm Figure of Merit



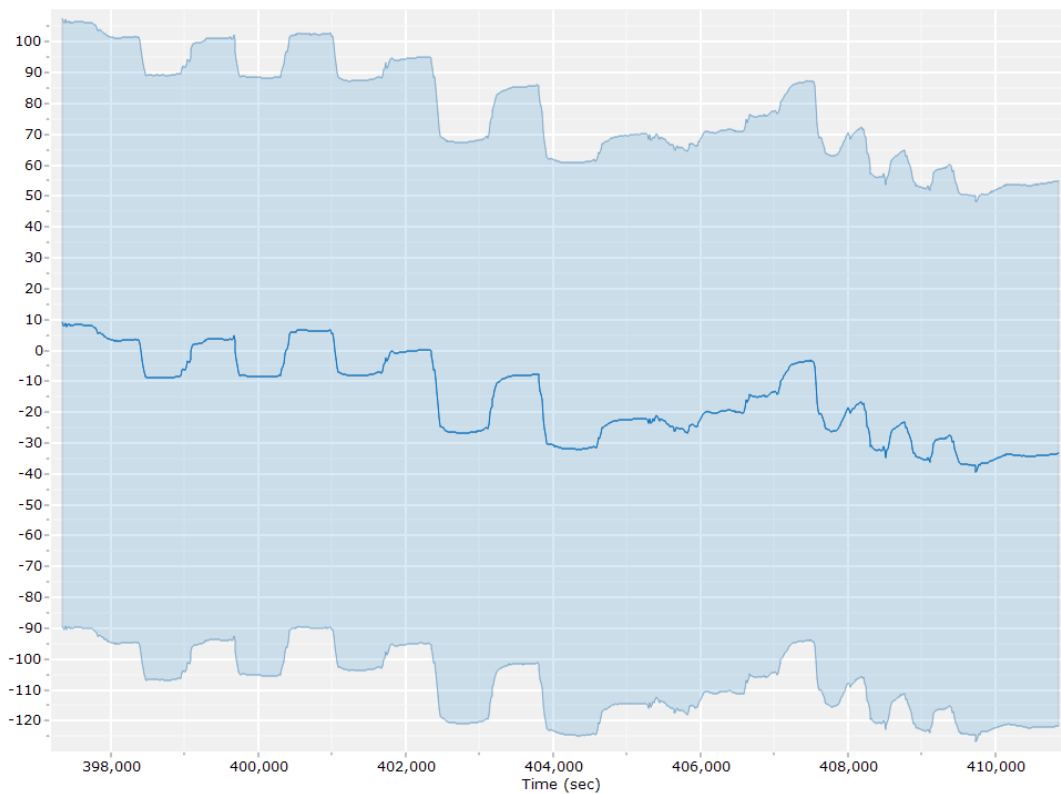
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

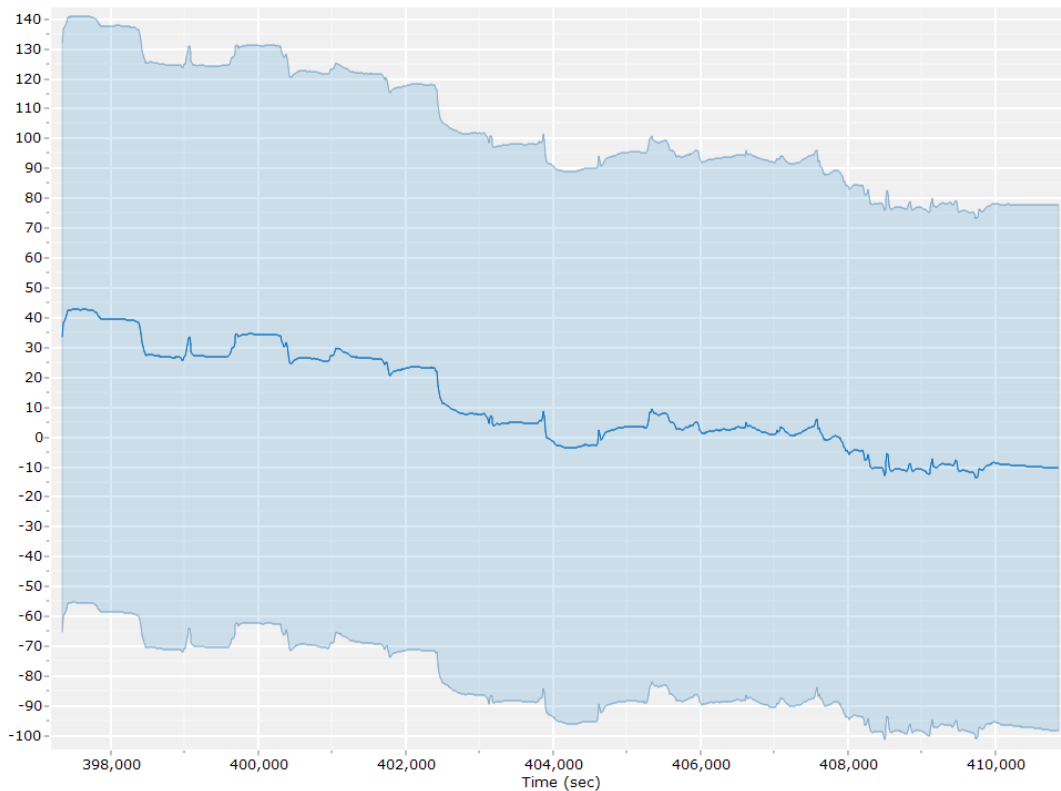
Accelerometer Bias (micro-g)



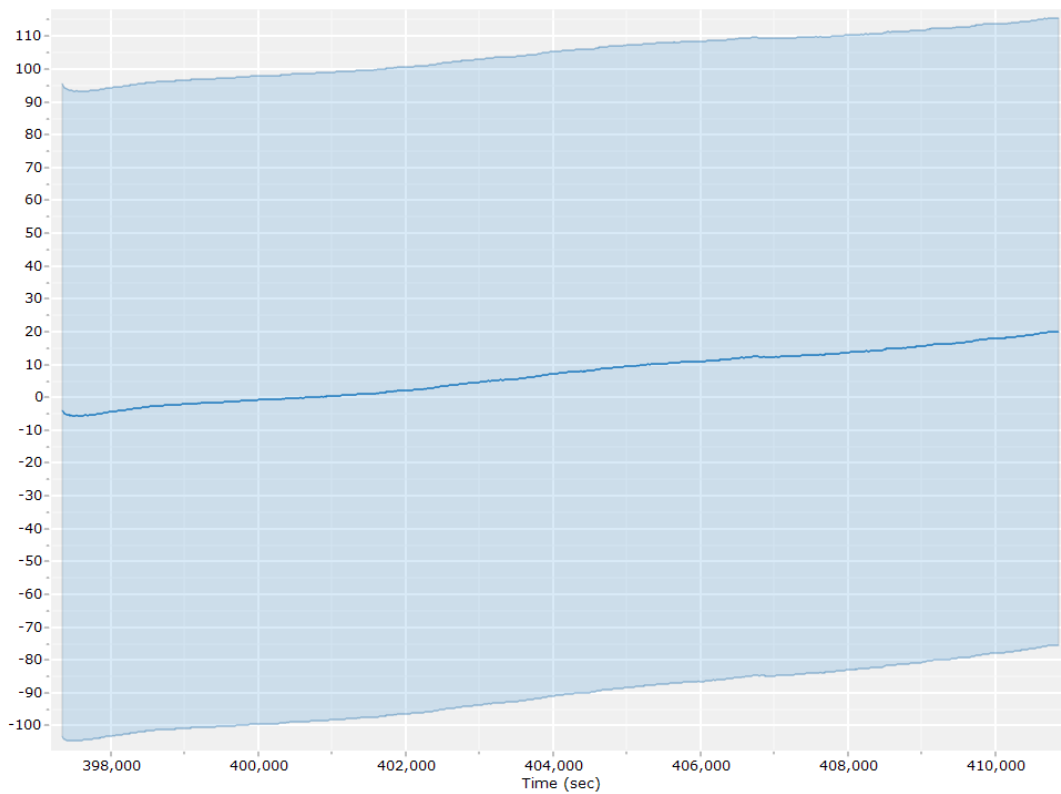
X Accelerometer Bias (micro-g)



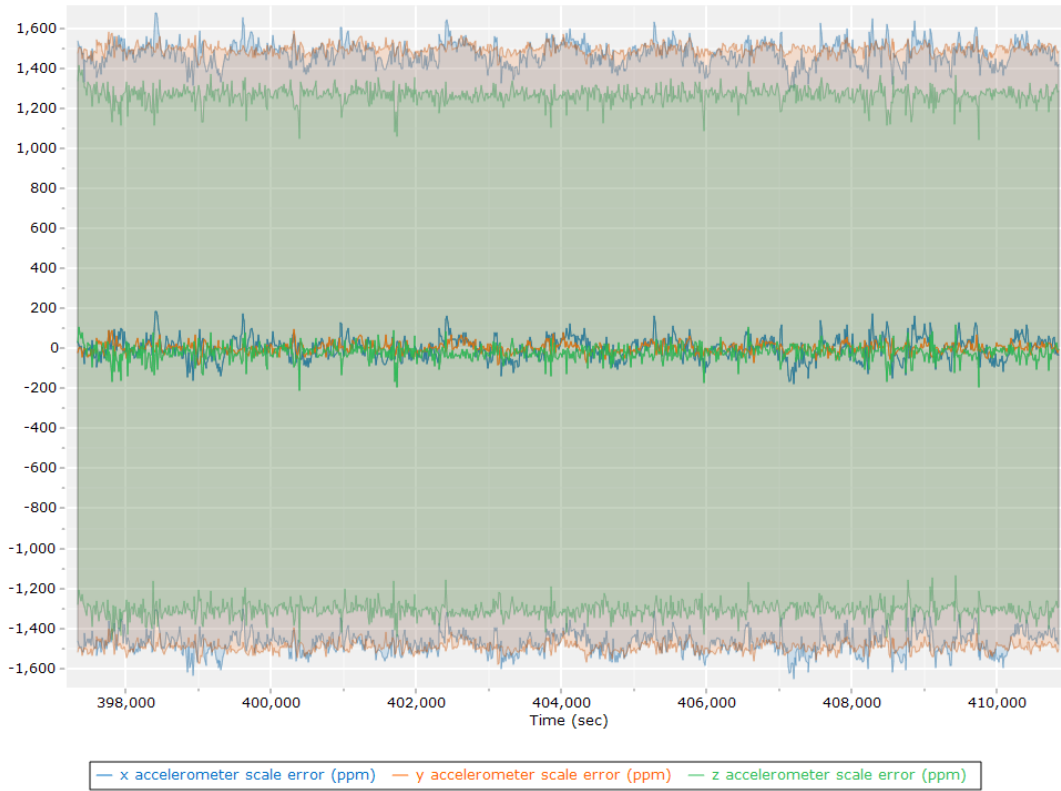
Y Accelerometer Bias (micro-g)



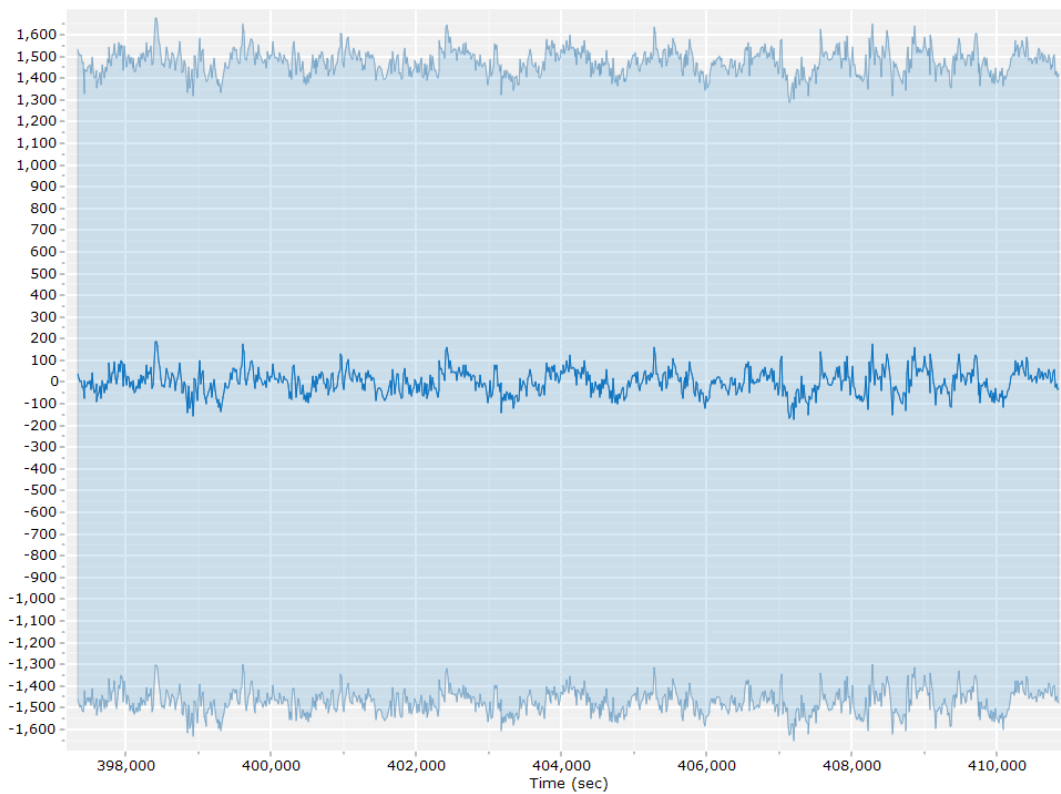
Z Accelerometer Bias (micro-g)



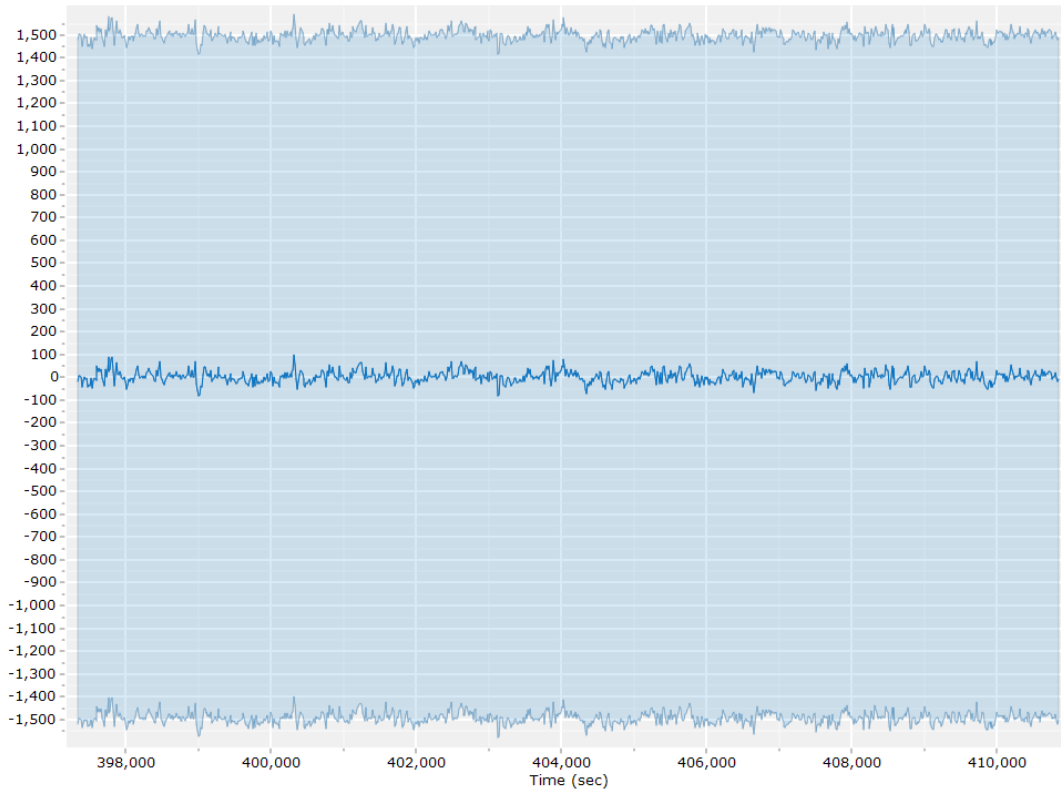
Accelerometer Scale Error (ppm)



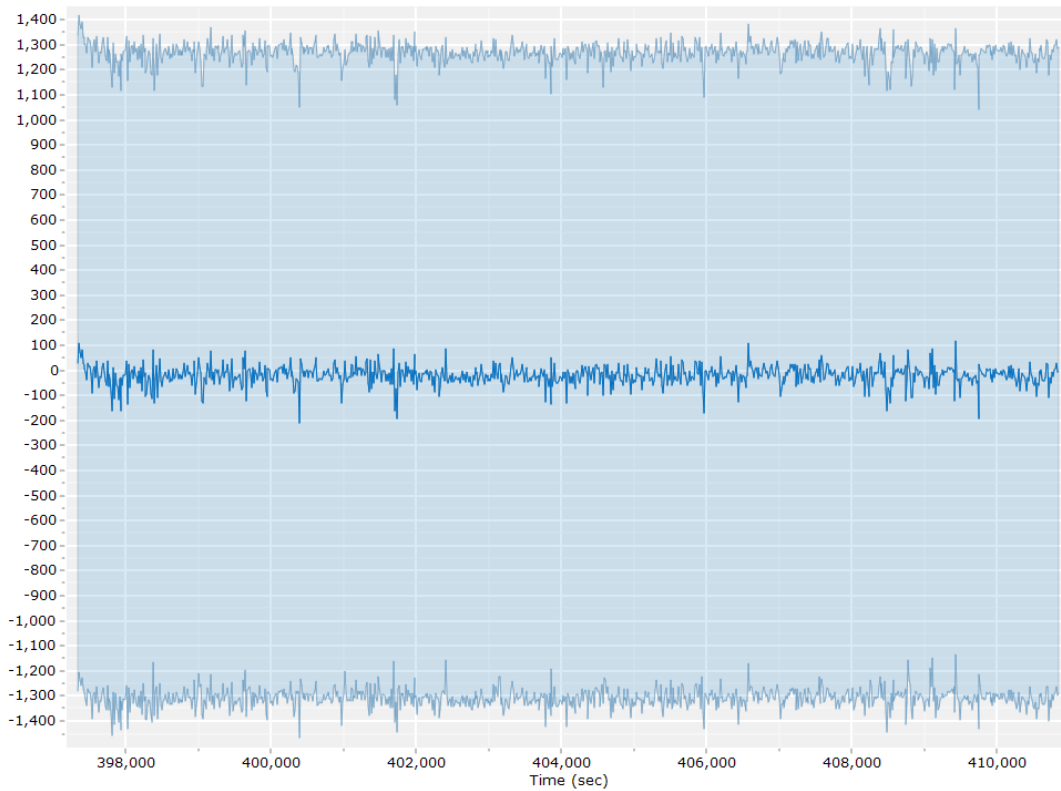
X Accelerometer Scale Error (ppm)



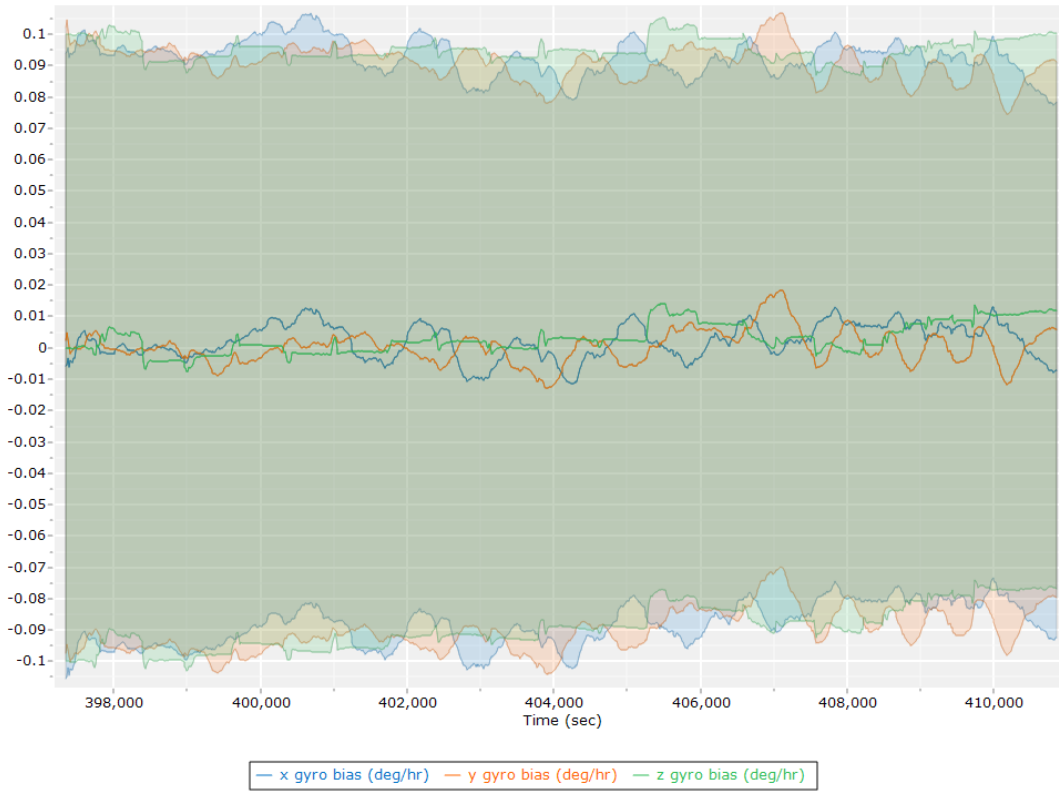
Y Accelerometer Scale Error (ppm)



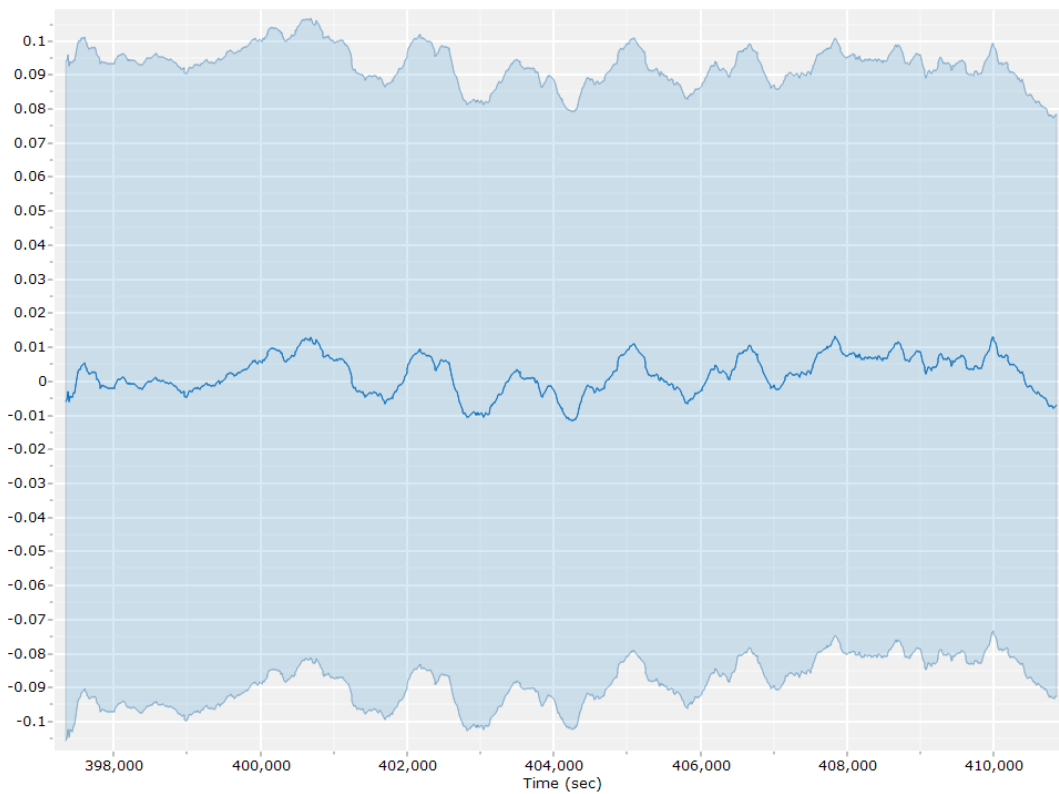
Z Accelerometer Scale Error (ppm)



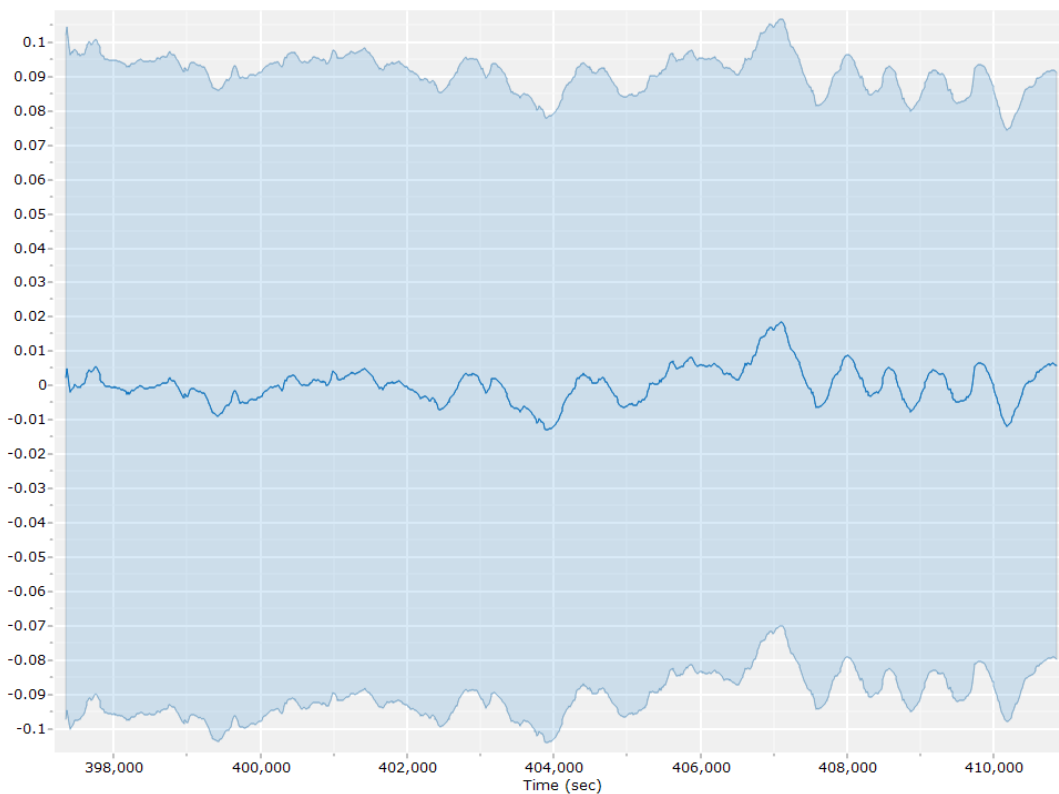
Gyro Bias (deg/h)



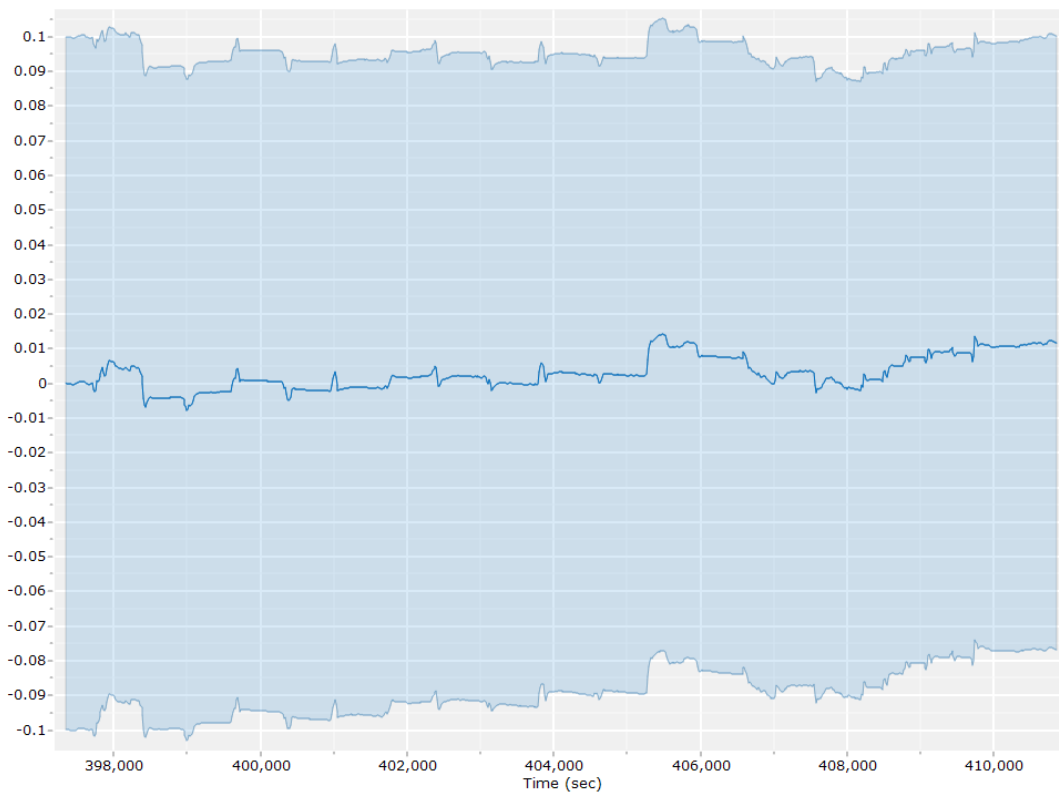
X Gyro Bias (deg/h)



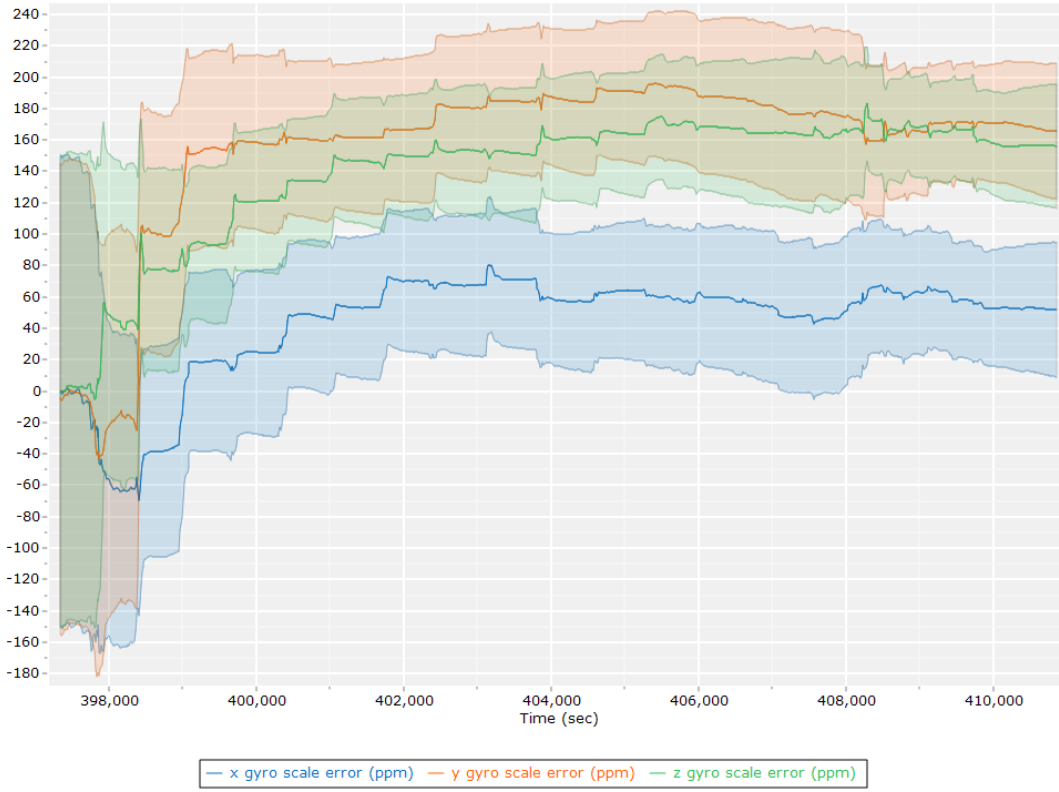
Y Gyro Bias (deg/h)



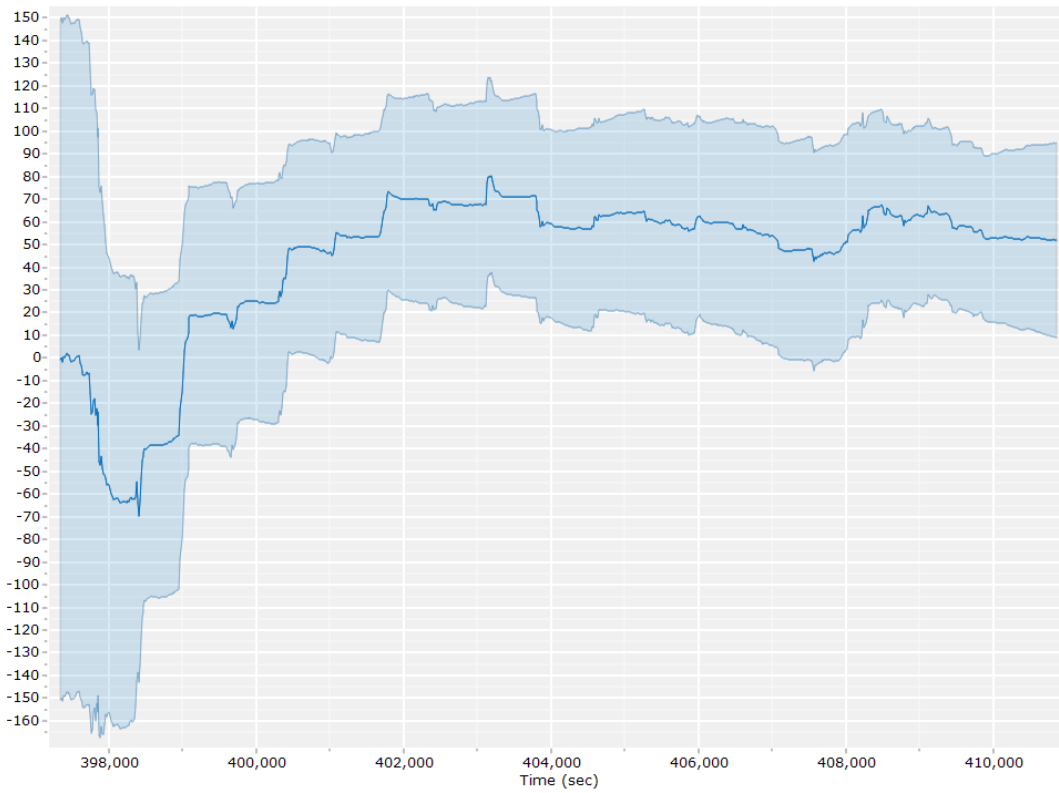
Z Gyro Bias (deg/h)



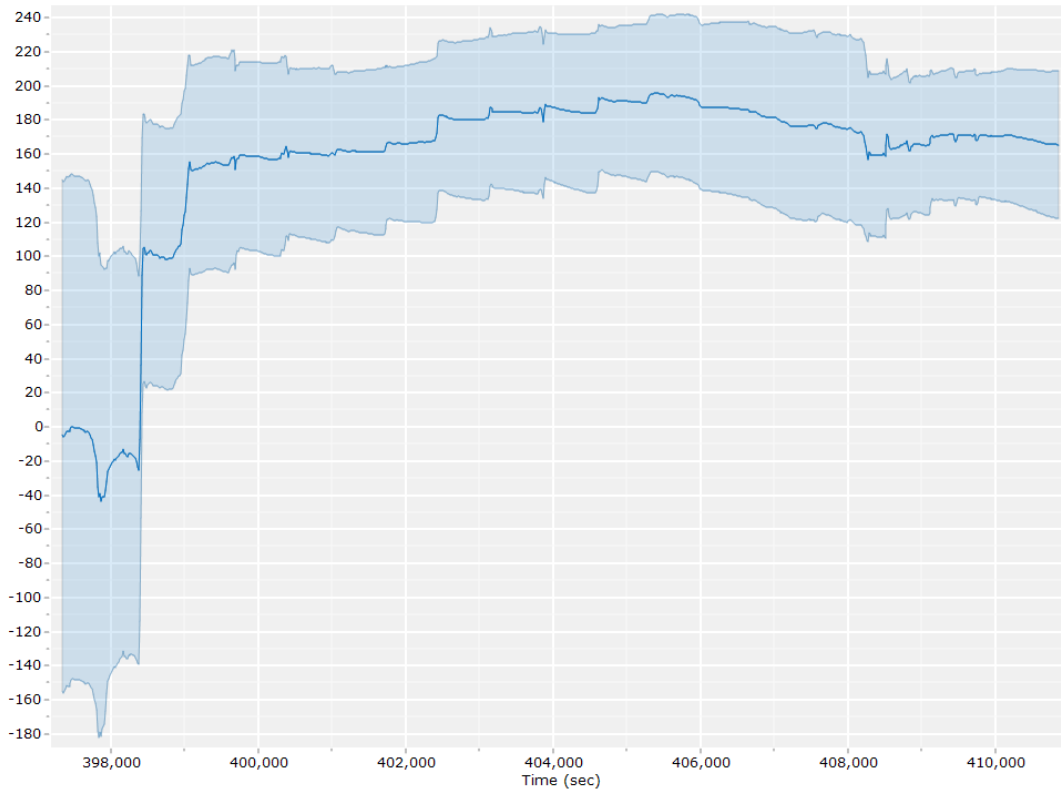
Gyro Scale Error (ppm)



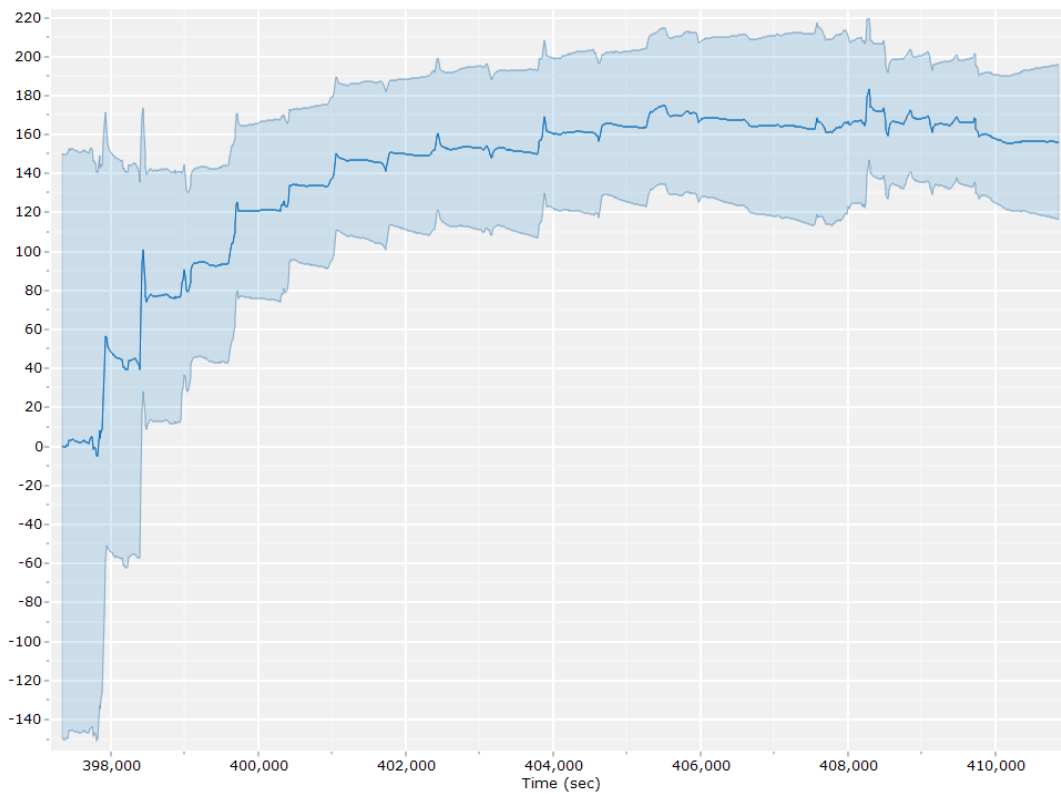
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

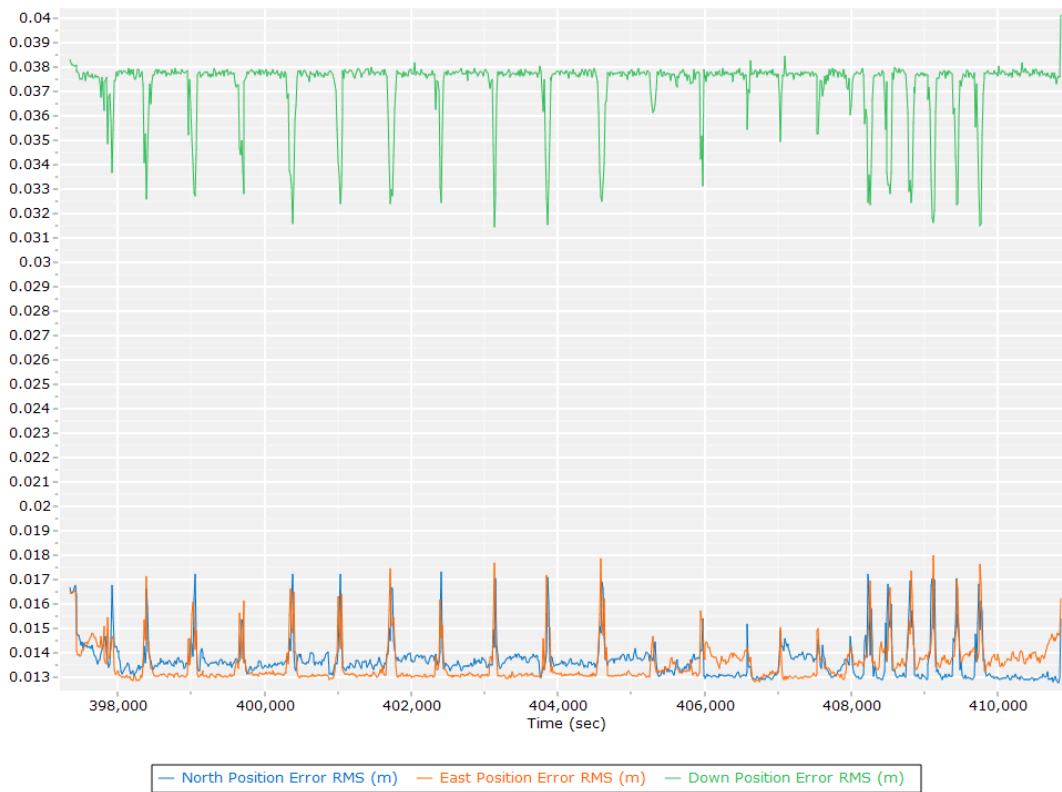


Z Gyro Scale Error (ppm)

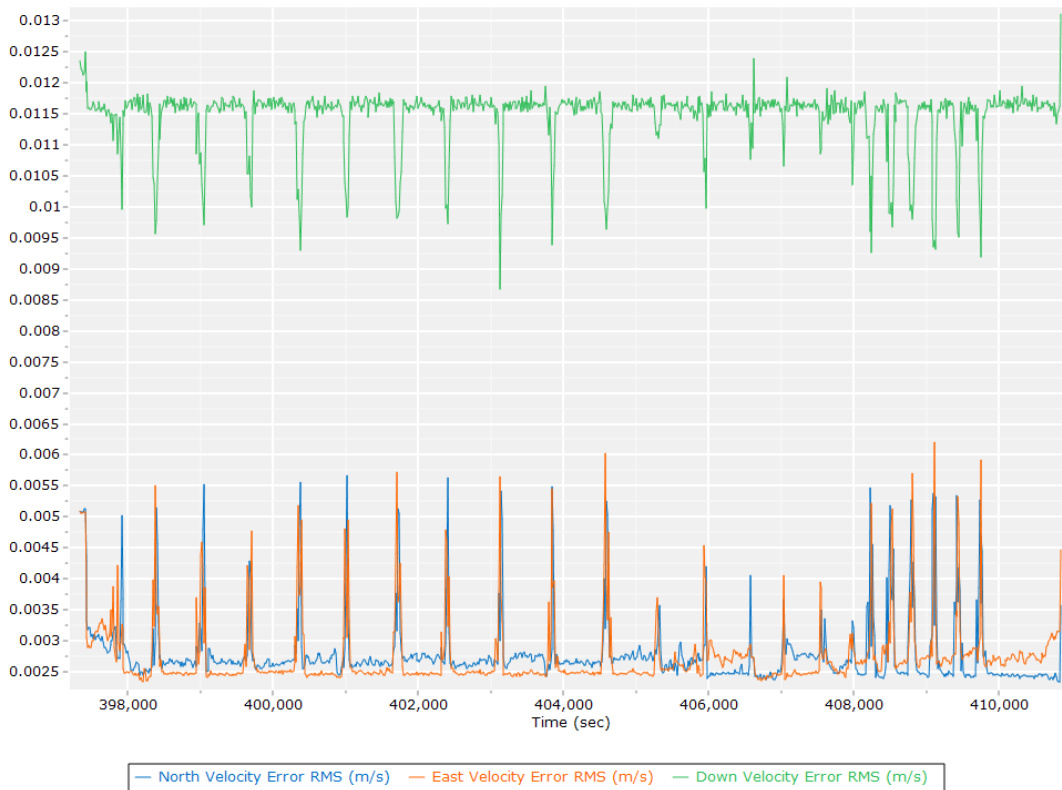


Smoothed Performance Metrics

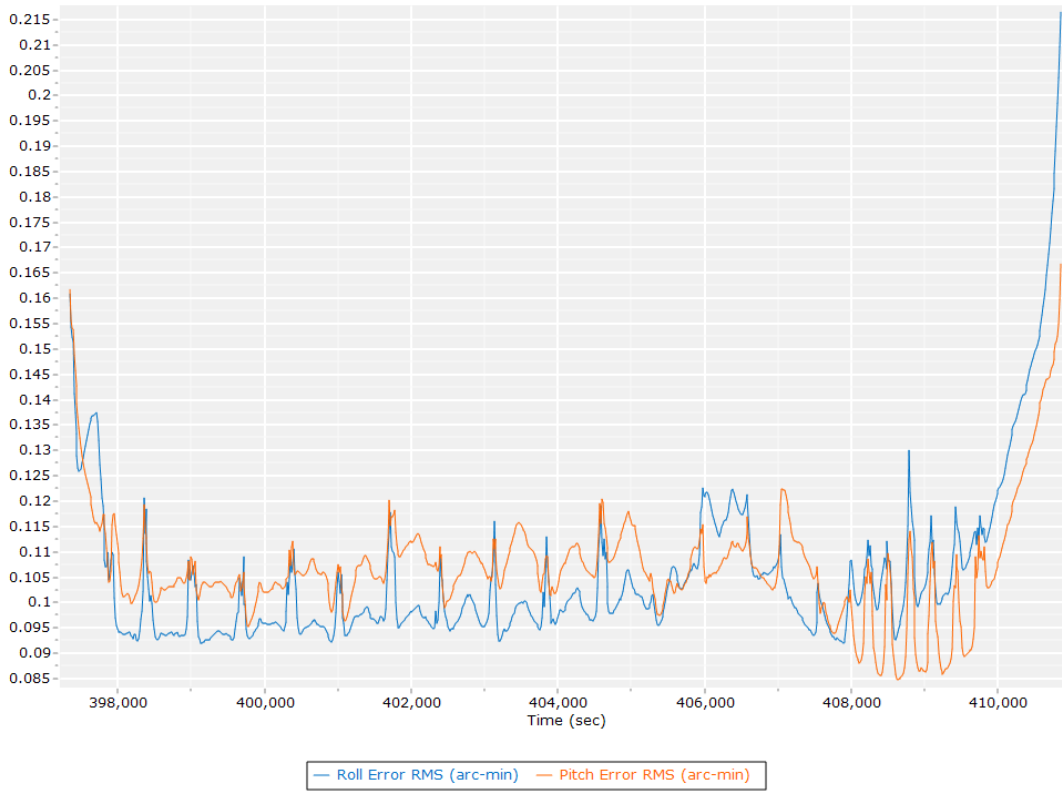
Position Error RMS (m)



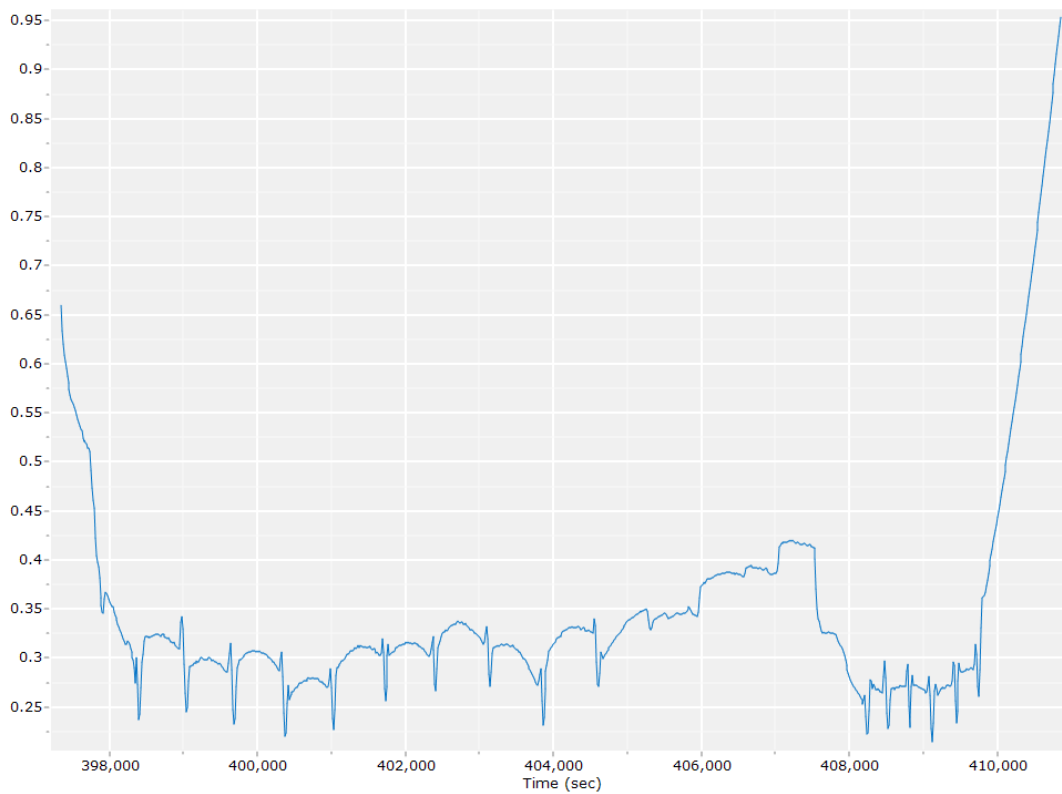
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

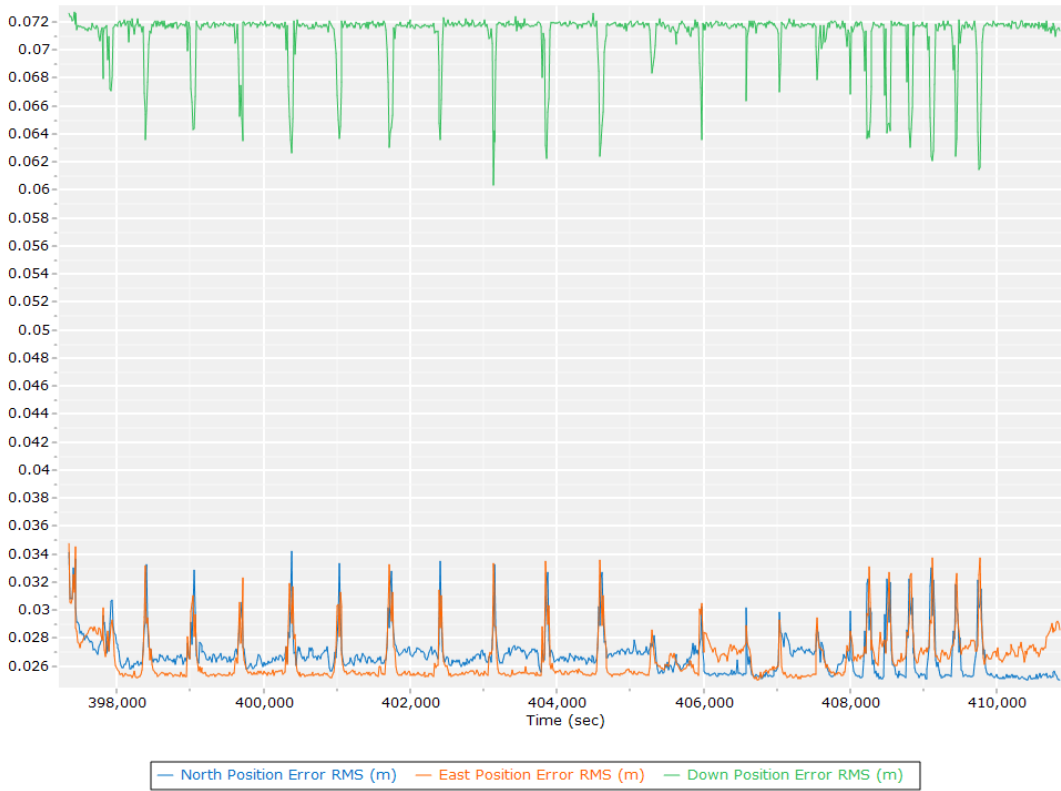


Heading Error RMS (arc-min)

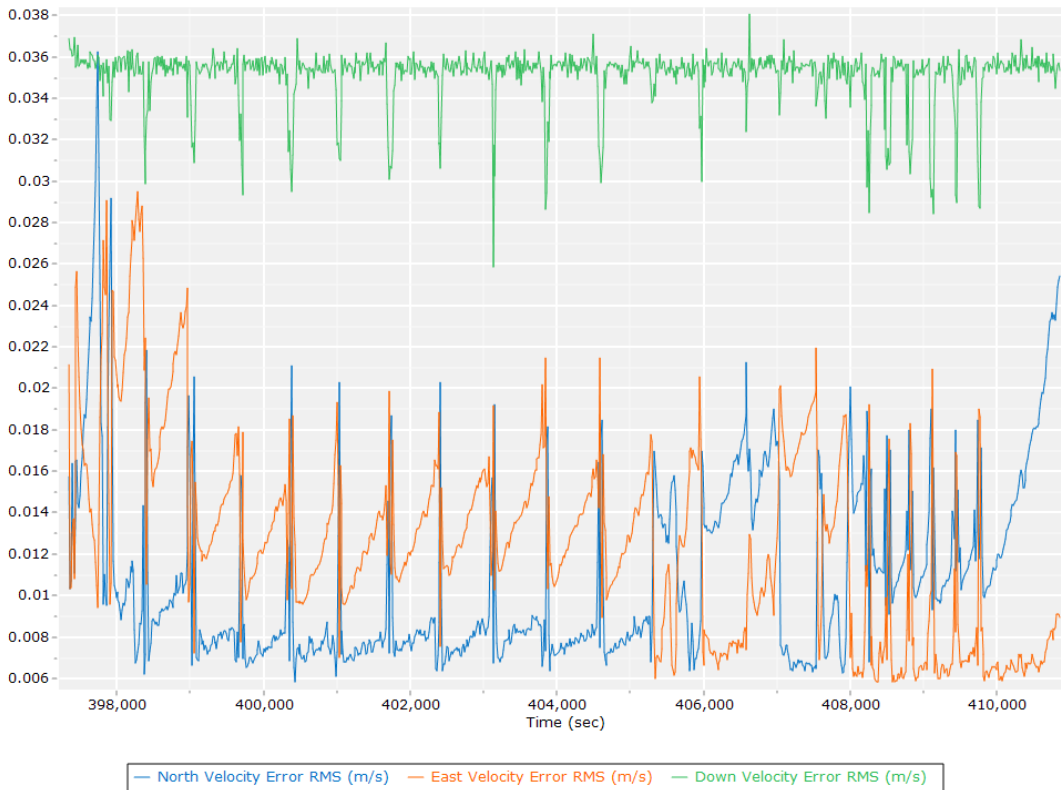


Forward Processed Performance Metrics

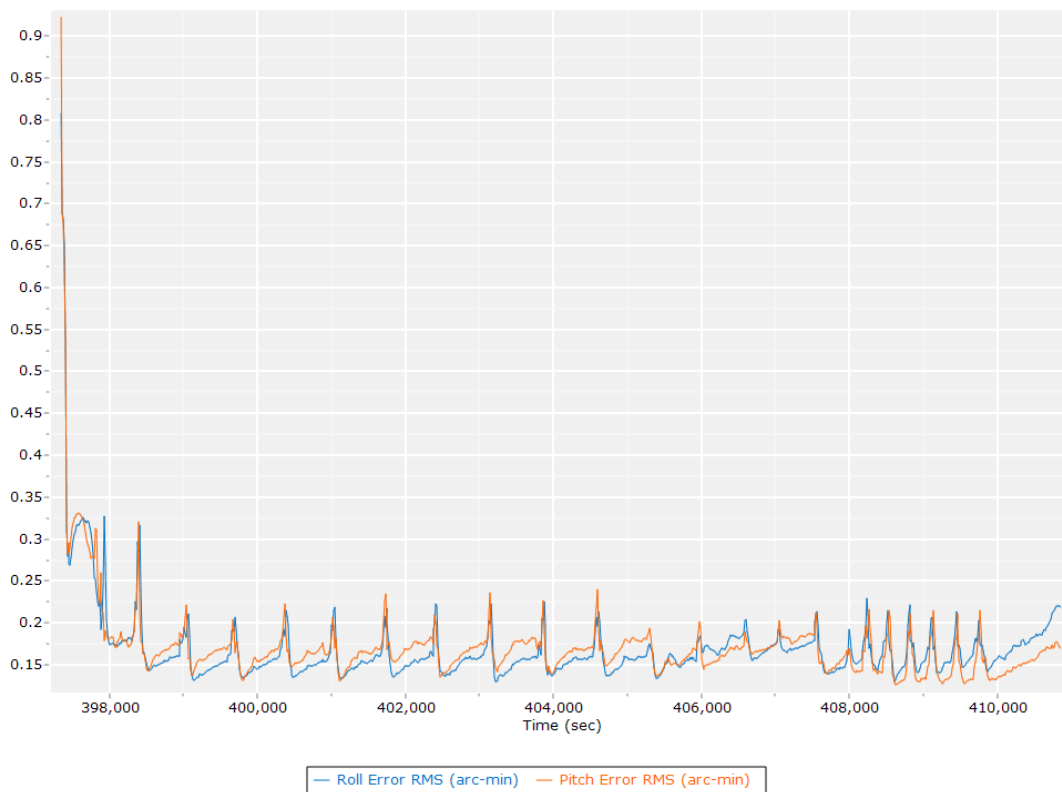
Position Error RMS (m)



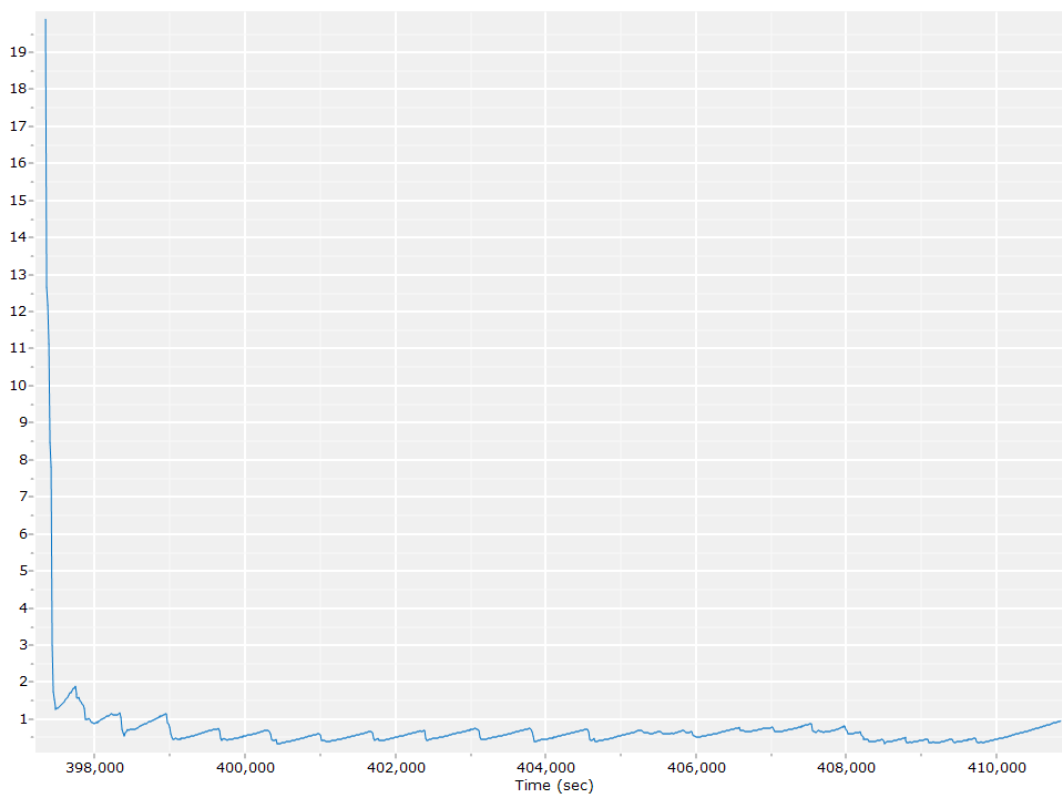
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

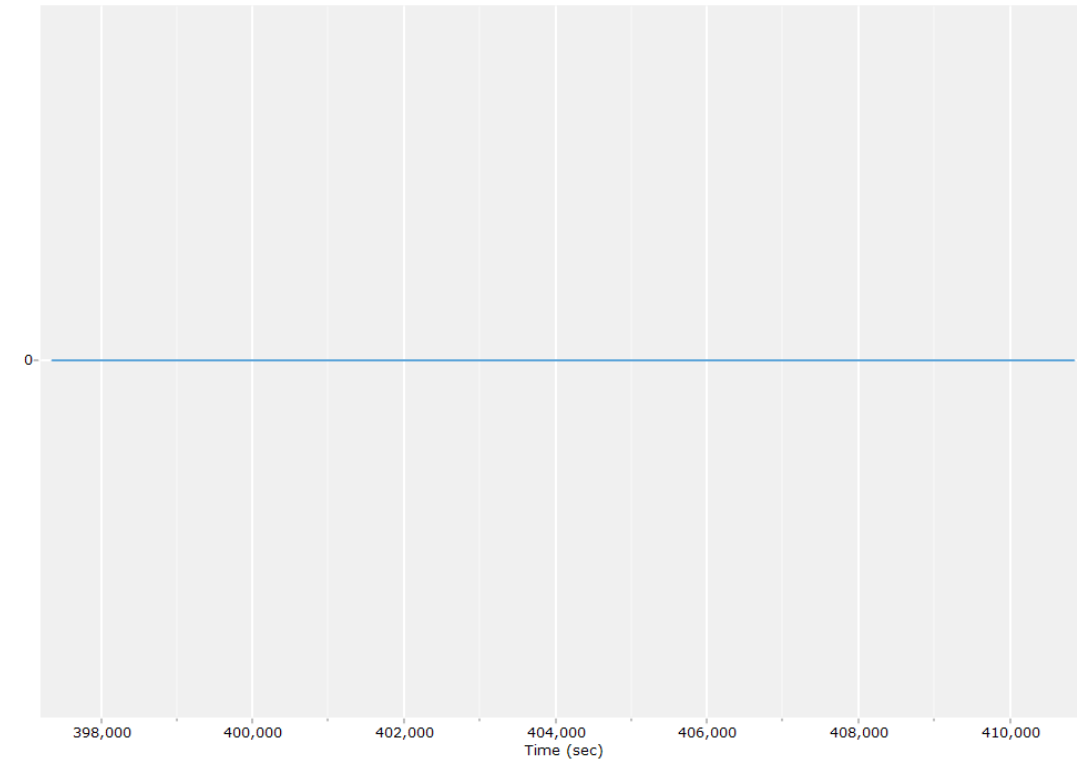


Heading Error RMS (arc-min)



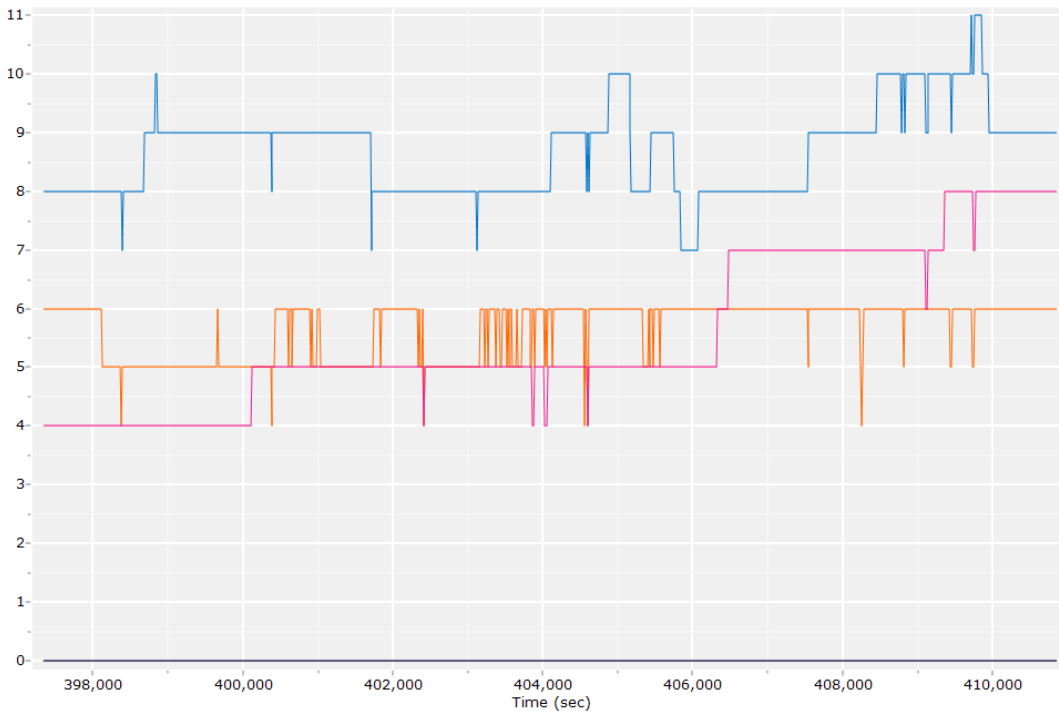
Forward Processed Solution Status

Processing Mode



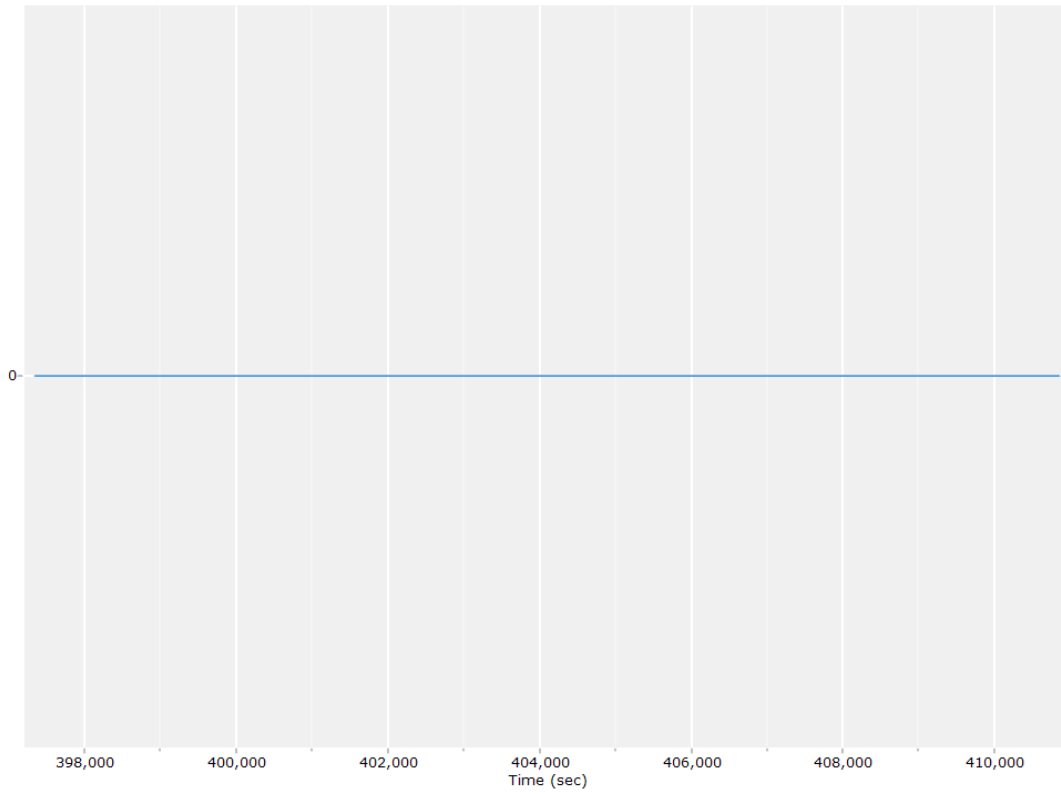
0 = Fixed NL, 1 = Fixed WL, 2 = Float, 3 = DGNSS, 4 = RTCM, 5 = IAPPP, 6 = C/A, 7 = GNSS Nav, 8 = DR

Number of Satellites



— Number of GPS Satellites — Number of GLONASS Satellites — Number of QZSS Satellites
 — Number of BEIDOU Satellites — Number of GALILEO Satellites

Baseline Length



General Information

Mission Information

Project name	23022_Mohave_QL1_20230317_T2L1_pprtx
Processing date	2023-03-20 18:09:22
Mission date	2023-03-17 14:22:28
Mission duration	03:51:24.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey1.pos	POS Data

Input Files

File Name	File Type
Ephm0760.23g	GLONASS Broadcast Ephemeris
Ephm0760.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey1.pos		
Last raw data file	survey1.pos		
Start GPS week	2253		
Start time	483747.114 (03/17/2023 14:22:27)		
End time	497783.496 (03/17/2023 18:16:23)		
Start of fine alignment	483748.149 (03/17/2023 14:22:28)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

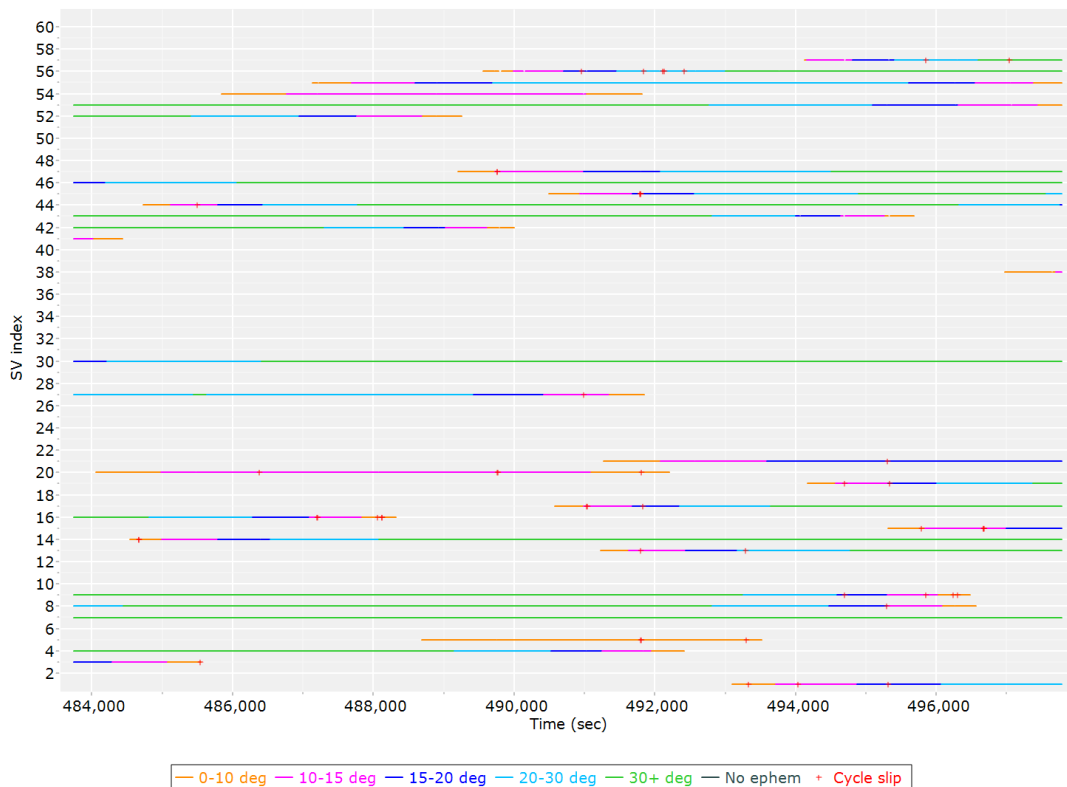
Rover Data QC

Raw IMU Import QC Summary

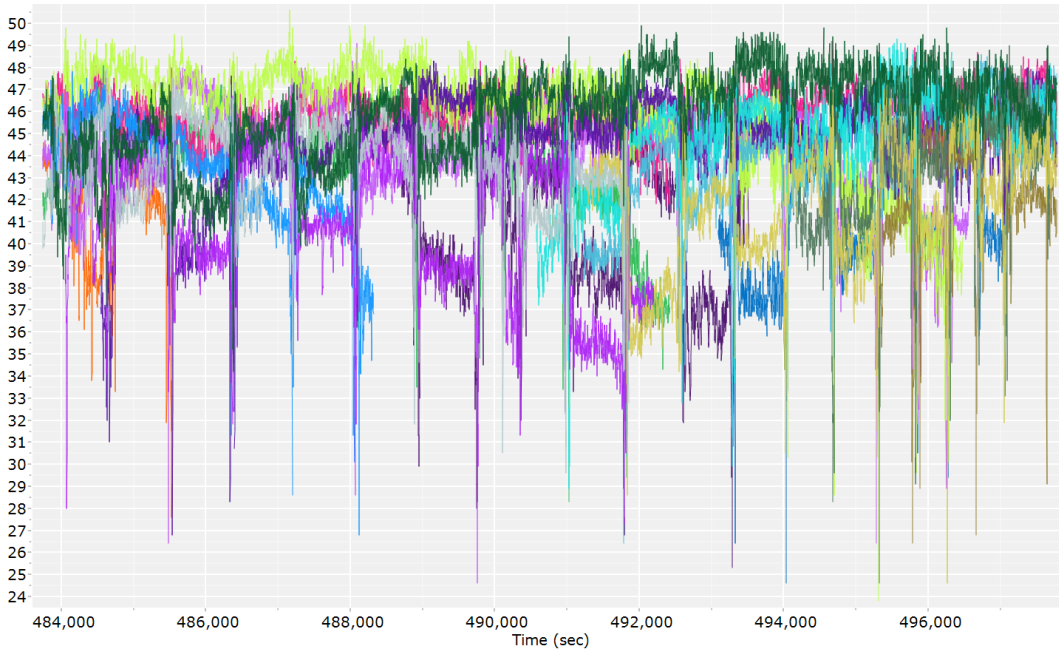
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	2806705
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

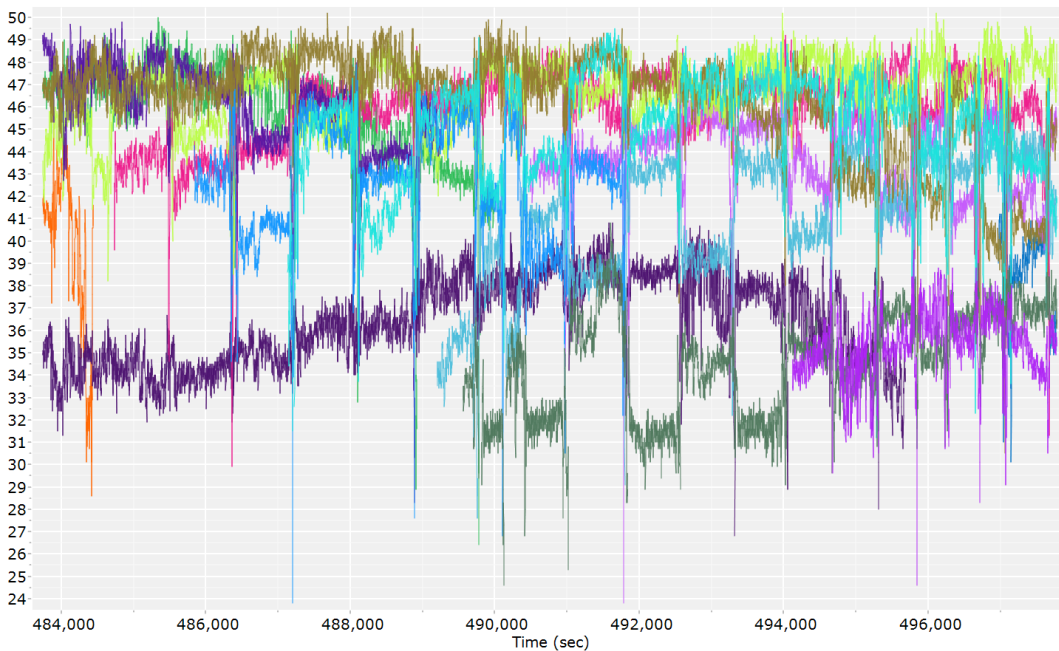


GPS L1 SNR



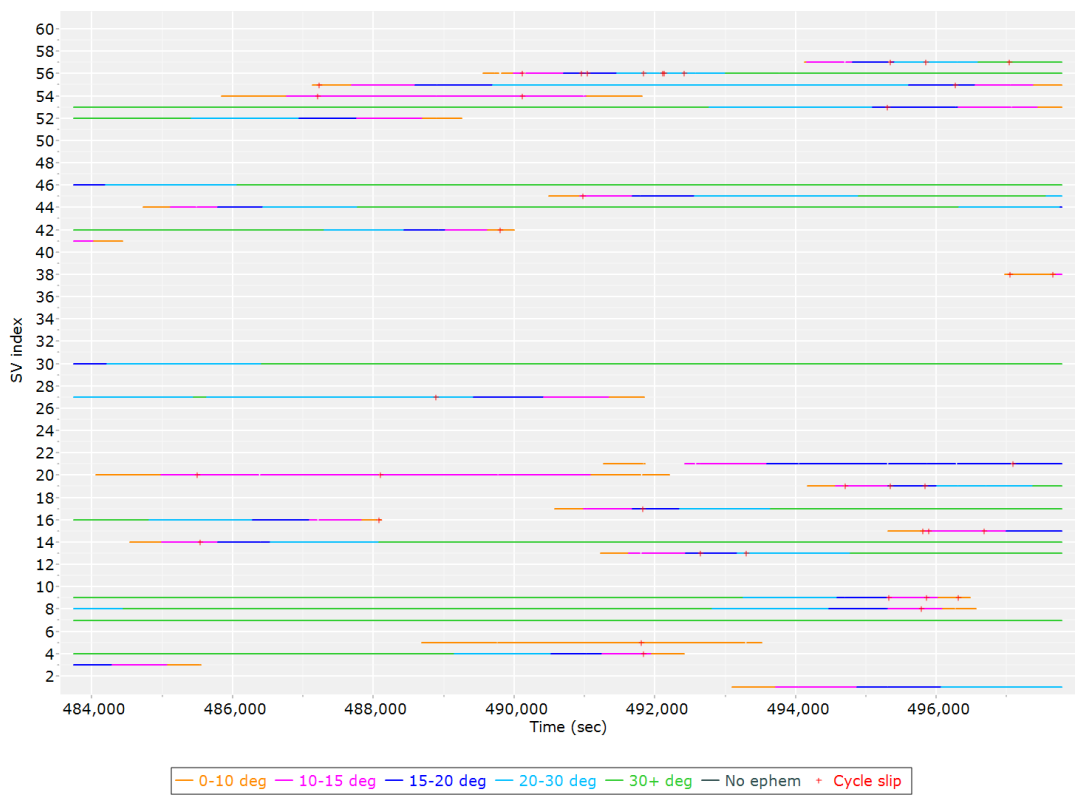
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 01 L1 SNR (dB/Hz) | GPS PRN 03 L1 SNR (dB/Hz) | GPS PRN 04 L1 SNR (dB/Hz) | GPS PRN 05 L1 SNR (dB/Hz) |
| GPS PRN 07 L1 SNR (dB/Hz) | GPS PRN 08 L1 SNR (dB/Hz) | GPS PRN 09 L1 SNR (dB/Hz) | GPS PRN 13 L1 SNR (dB/Hz) |
| GPS PRN 14 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) | GPS PRN 16 L1 SNR (dB/Hz) | GPS PRN 17 L1 SNR (dB/Hz) |
| GPS PRN 19 L1 SNR (dB/Hz) | GPS PRN 20 L1 SNR (dB/Hz) | GPS PRN 21 L1 SNR (dB/Hz) | GPS PRN 27 L1 SNR (dB/Hz) |
| GPS PRN 30 L1 SNR (dB/Hz) | | | |

GLONASS L1 SNR

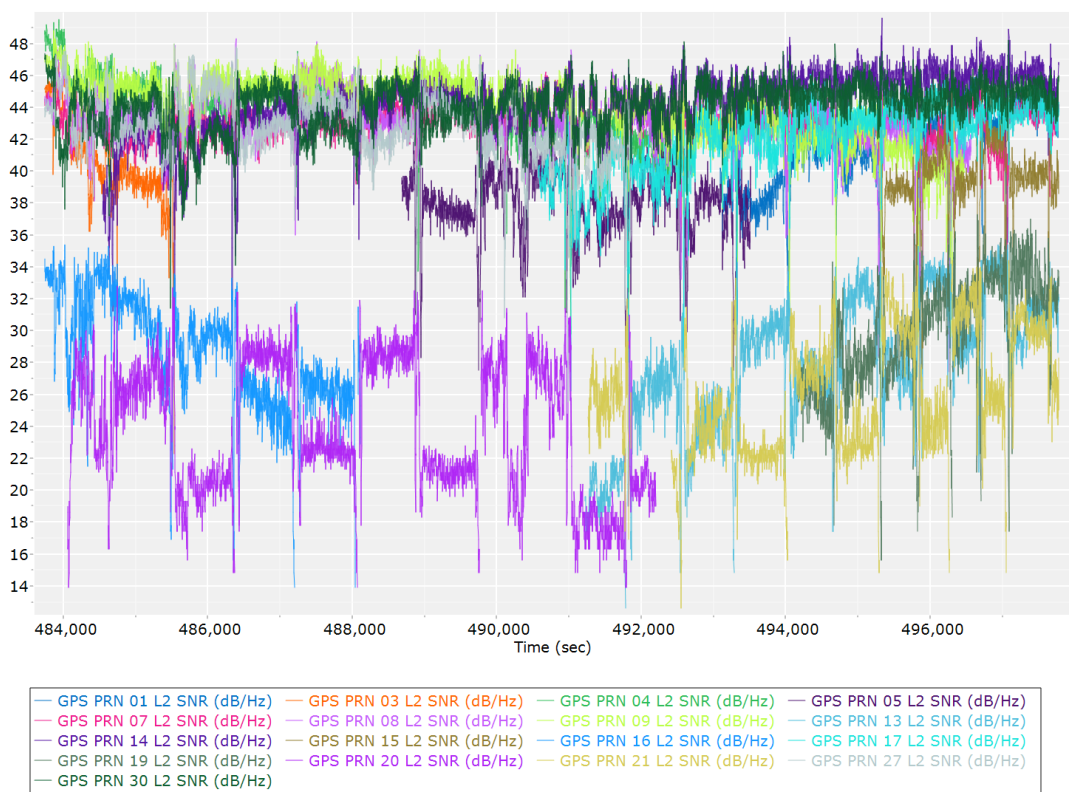


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 01 L1 SNR (dB/Hz) | GLONASS 04 L1 SNR (dB/Hz) | GLONASS 05 L1 SNR (dB/Hz) |
| GLONASS 06 L1 SNR (dB/Hz) | GLONASS 07 L1 SNR (dB/Hz) | GLONASS 08 L1 SNR (dB/Hz) |
| GLONASS 09 L1 SNR (dB/Hz) | GLONASS 10 L1 SNR (dB/Hz) | GLONASS 15 L1 SNR (dB/Hz) |
| GLONASS 16 L1 SNR (dB/Hz) | GLONASS 17 L1 SNR (dB/Hz) | GLONASS 18 L1 SNR (dB/Hz) |
| GLONASS 19 L1 SNR (dB/Hz) | GLONASS 20 L1 SNR (dB/Hz) | |

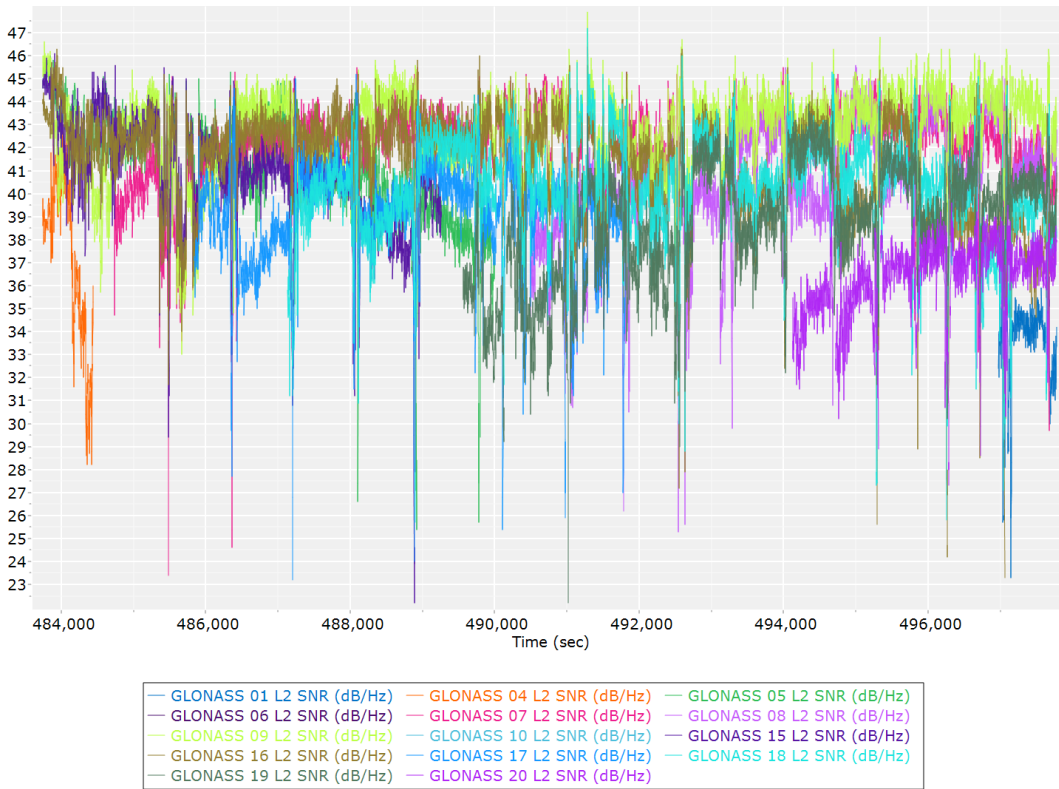
GPS/GLONASS L2 Satellite Lock/Elevation



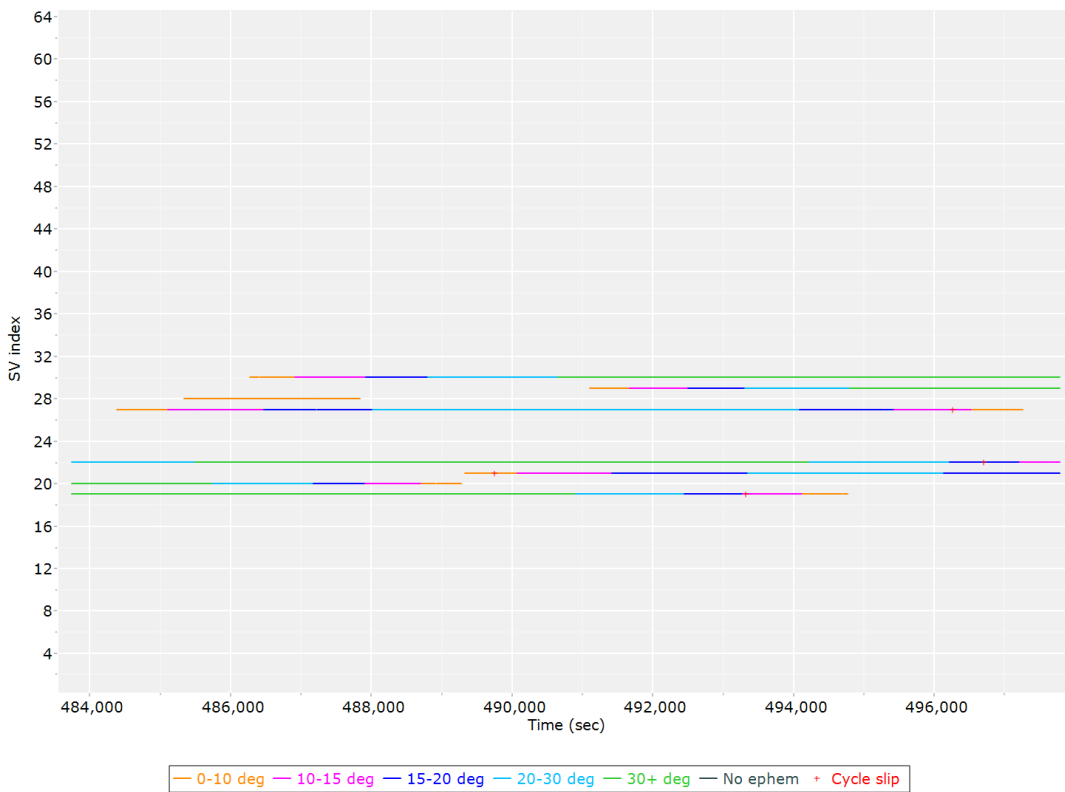
GPS L2 SNR



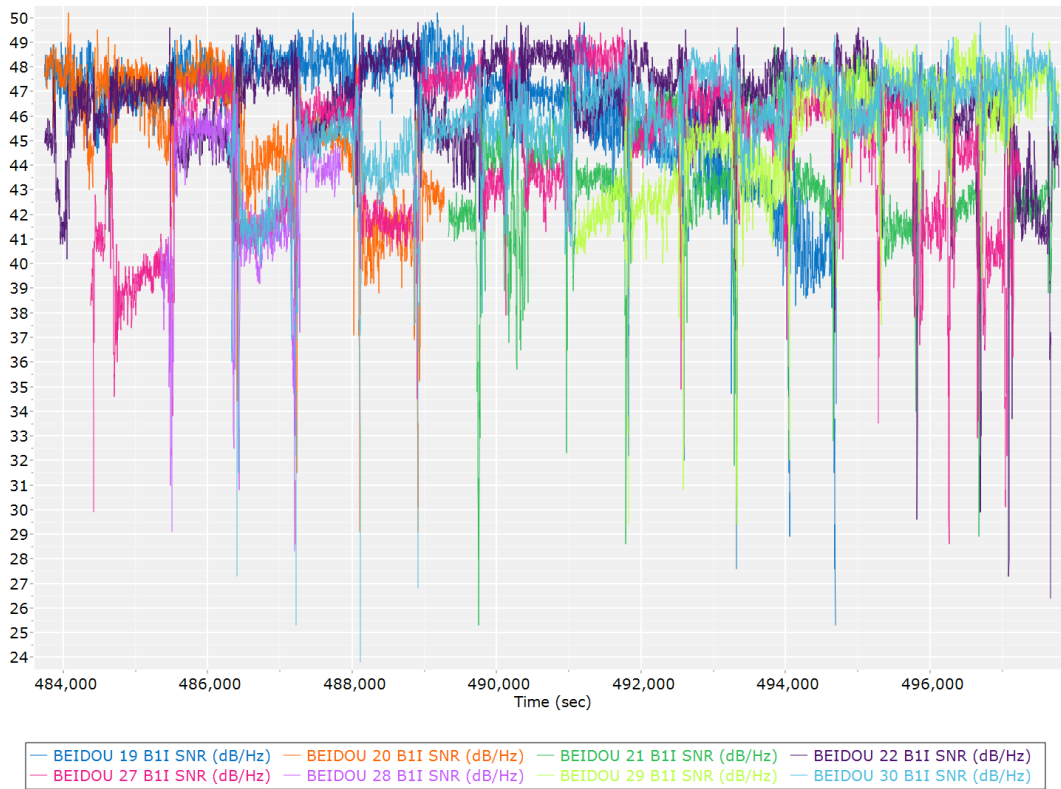
GLONASS L2 SNR



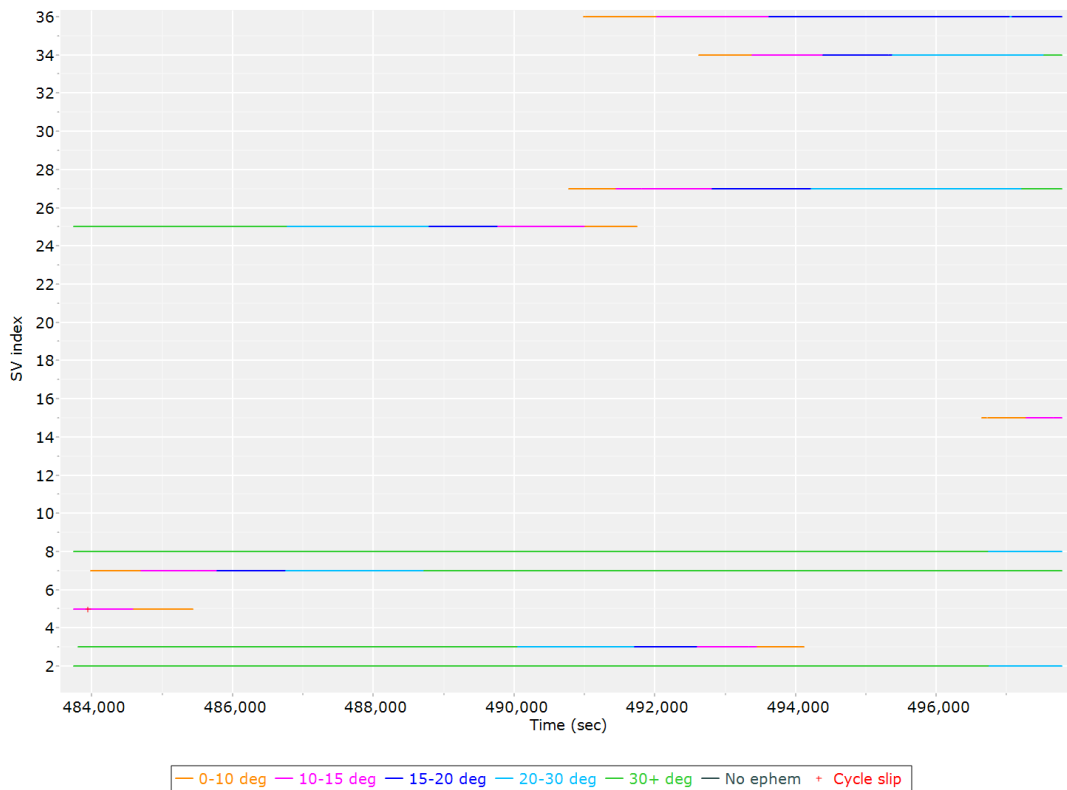
BEIDOU Satellite Lock/Elevation



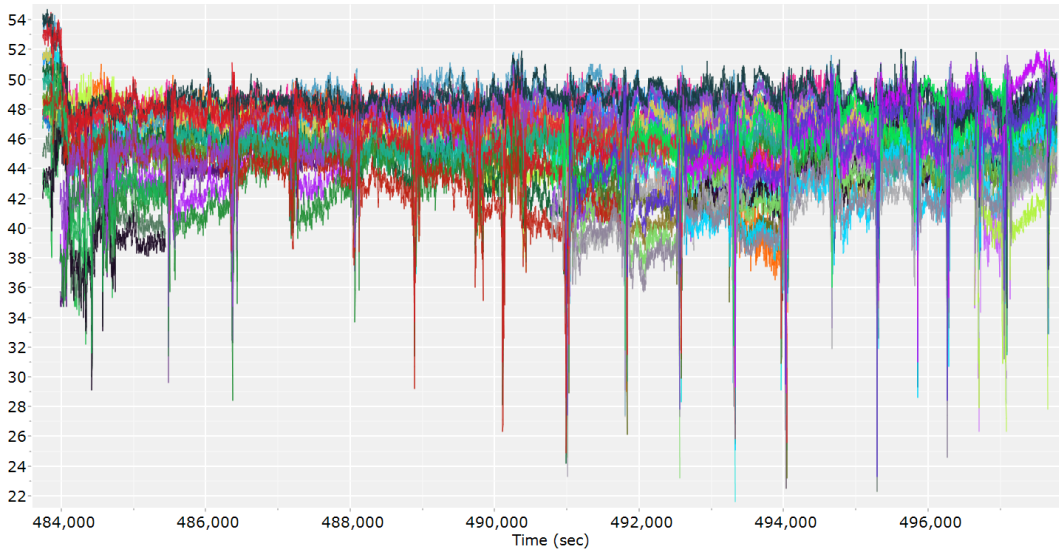
BEIDOU SNR



GALILEO Satellite Lock/Elevation



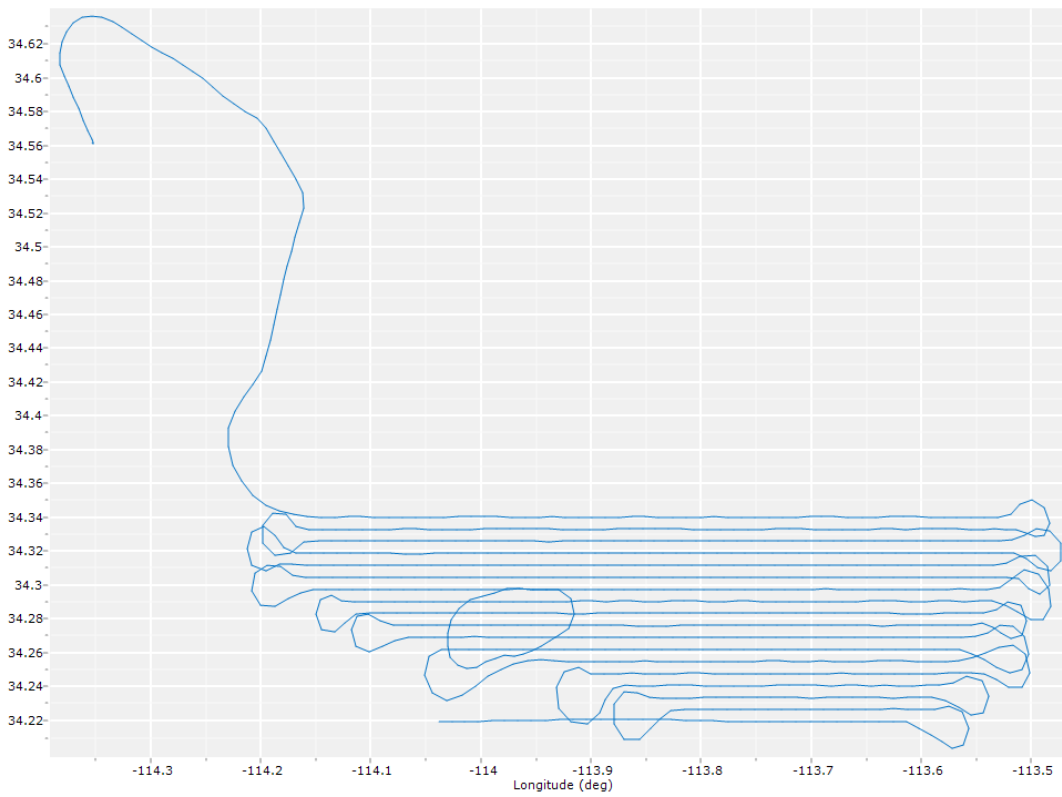
GALILEO SNR



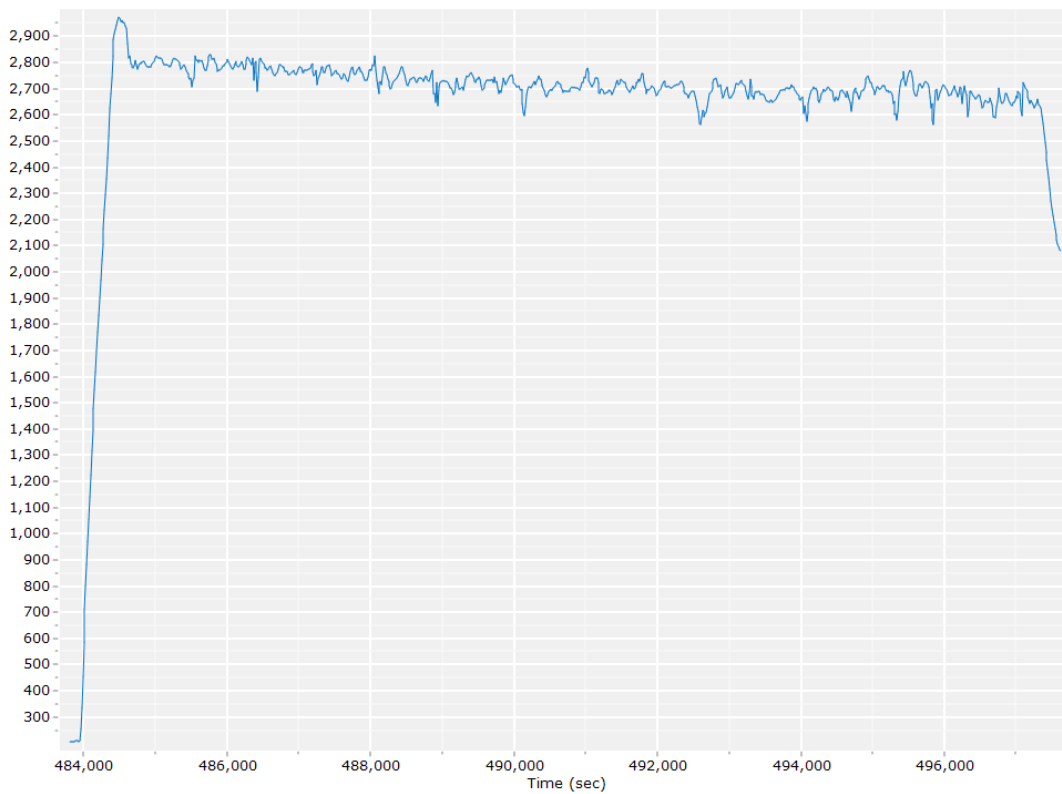
— GALILEO 02 E1CBOC SNR (dB/Hz)	— GALILEO 03 E1CBOC SNR (dB/Hz)	— GALILEO 05 E1CBOC SNR (dB/Hz)
— GALILEO 07 E1CBOC SNR (dB/Hz)	— GALILEO 08 E1CBOC SNR (dB/Hz)	— GALILEO 15 E1CBOC SNR (dB/Hz)
— GALILEO 25 E1CBOC SNR (dB/Hz)	— GALILEO 27 E1CBOC SNR (dB/Hz)	— GALILEO 34 E1CBOC SNR (dB/Hz)
— GALILEO 36 E1CBOC SNR (dB/Hz)	— GALILEO 02 E5A SNR (dB/Hz)	— GALILEO 03 E5A SNR (dB/Hz)
— GALILEO 05 E5A SNR (dB/Hz)	— GALILEO 07 E5A SNR (dB/Hz)	— GALILEO 08 E5A SNR (dB/Hz)
— GALILEO 15 E5A SNR (dB/Hz)	— GALILEO 25 E5A SNR (dB/Hz)	— GALILEO 27 E5A SNR (dB/Hz)
— GALILEO 34 E5A SNR (dB/Hz)	— GALILEO 36 E5A SNR (dB/Hz)	— GALILEO 02 E5B SNR (dB/Hz)
— GALILEO 03 E5B SNR (dB/Hz)	— GALILEO 05 E5B SNR (dB/Hz)	— GALILEO 07 E5B SNR (dB/Hz)
— GALILEO 08 E5B SNR (dB/Hz)	— GALILEO 15 E5B SNR (dB/Hz)	— GALILEO 25 E5B SNR (dB/Hz)
— GALILEO 27 E5B SNR (dB/Hz)	— GALILEO 34 E5B SNR (dB/Hz)	— GALILEO 36 E5B SNR (dB/Hz)

Smoothed Trajectory Information

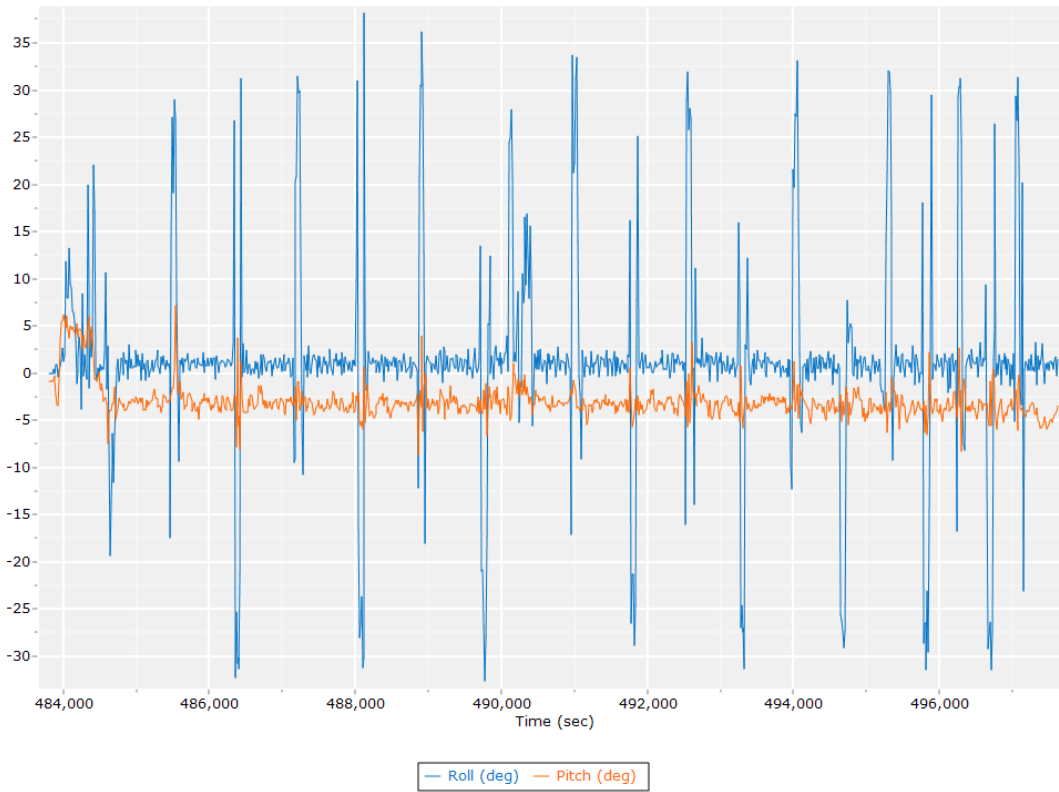
Top View



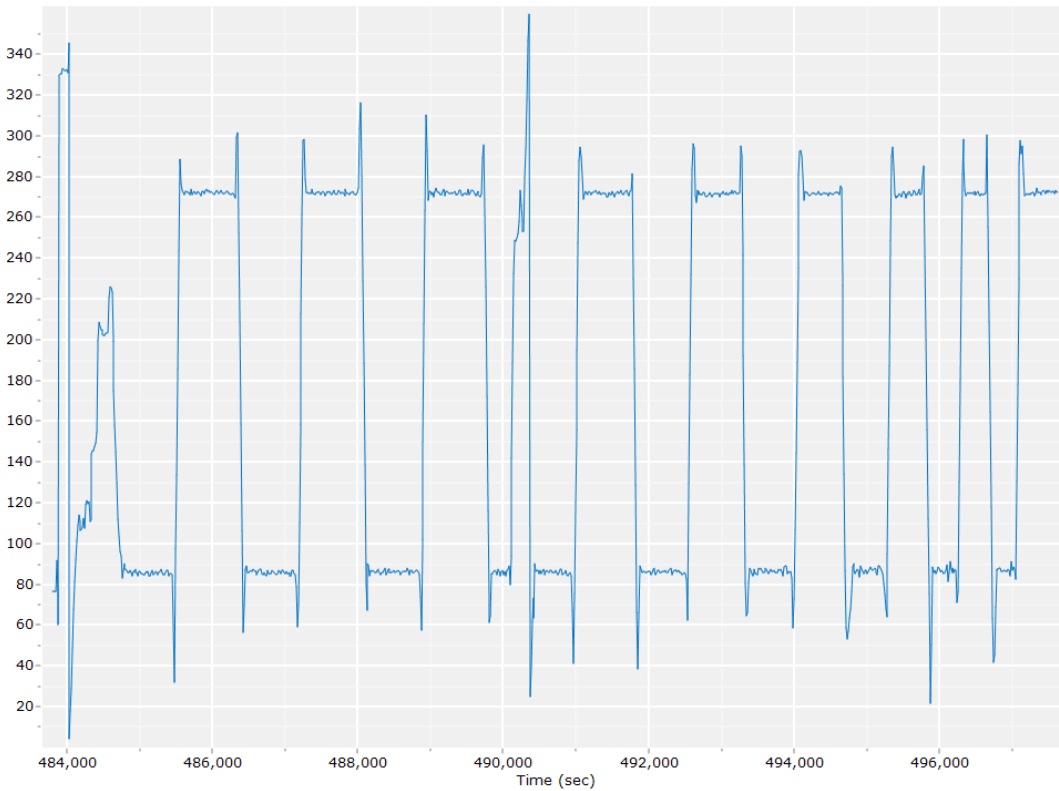
Altitude



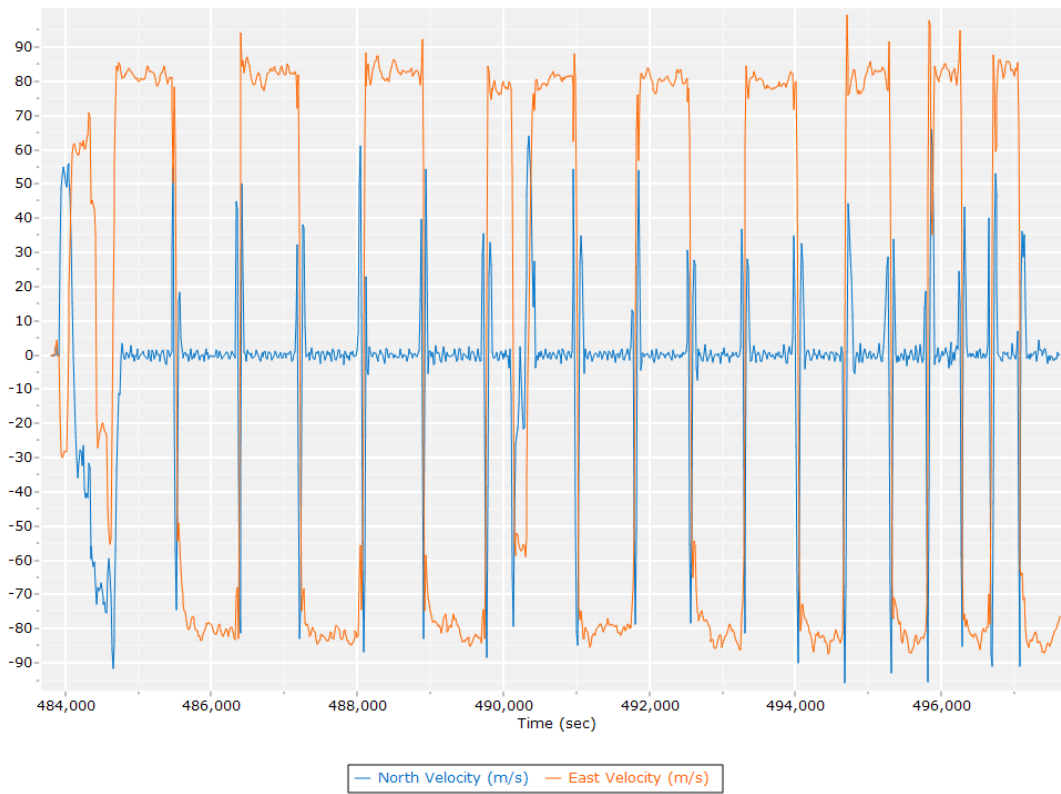
Roll/Pitch



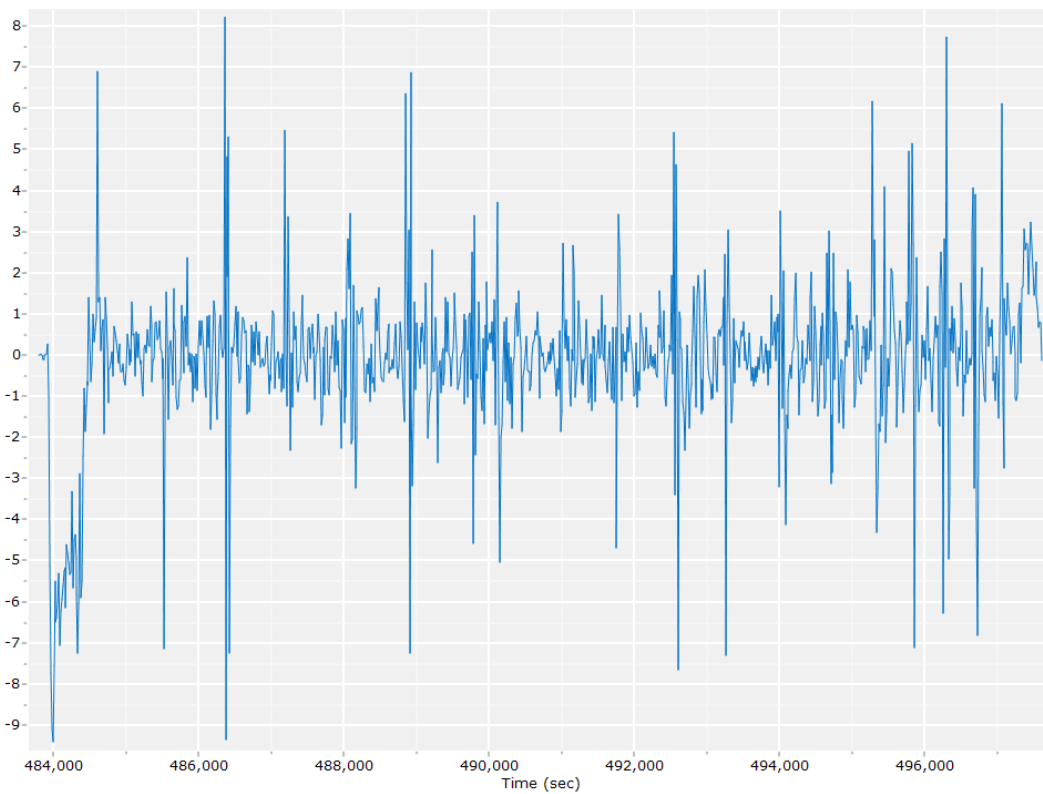
Heading



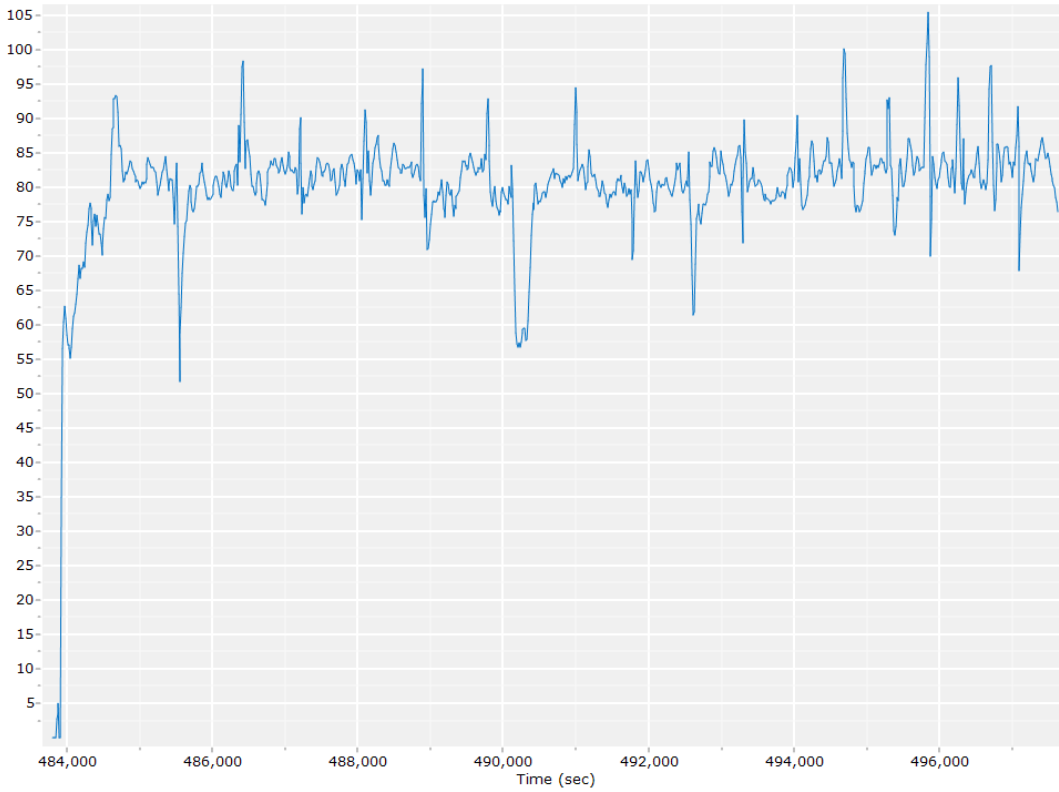
North/East Velocity



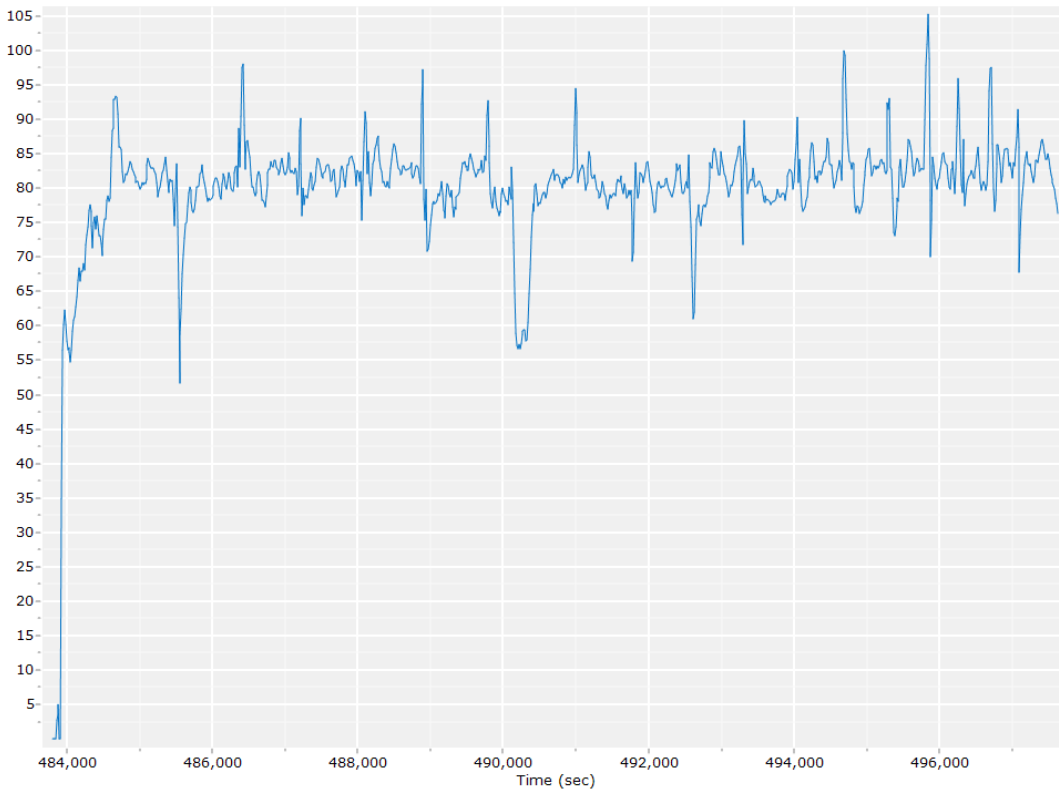
Down Velocity



Total Speed



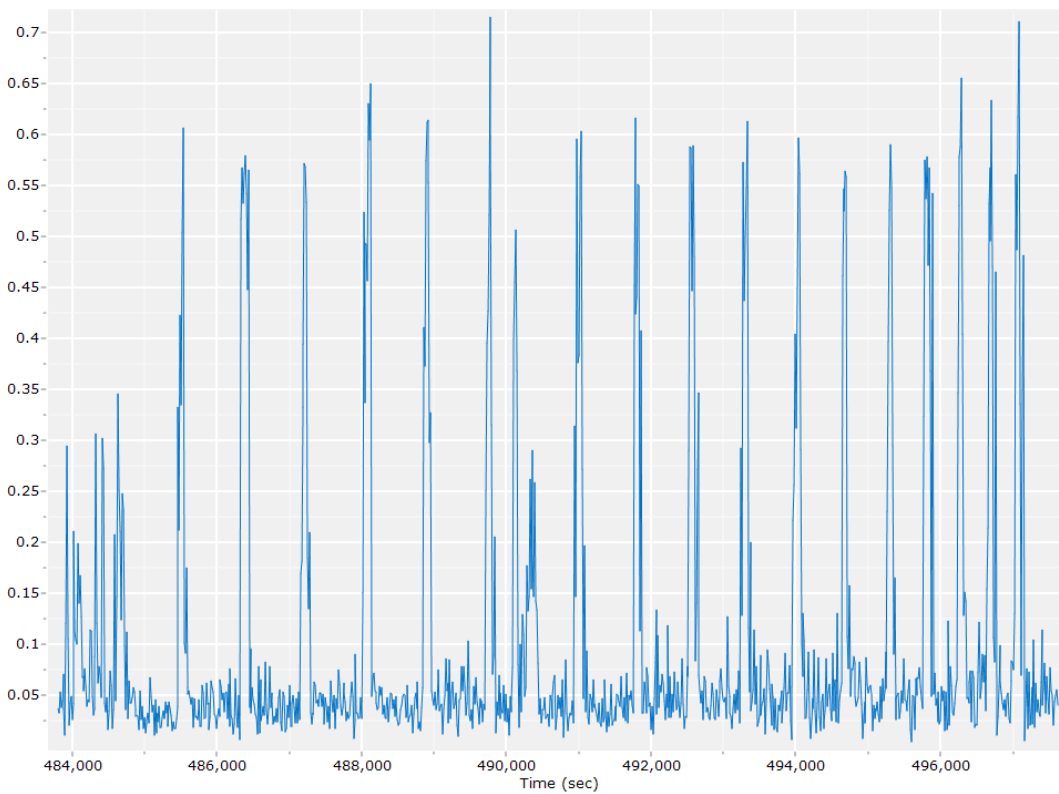
Ground Speed



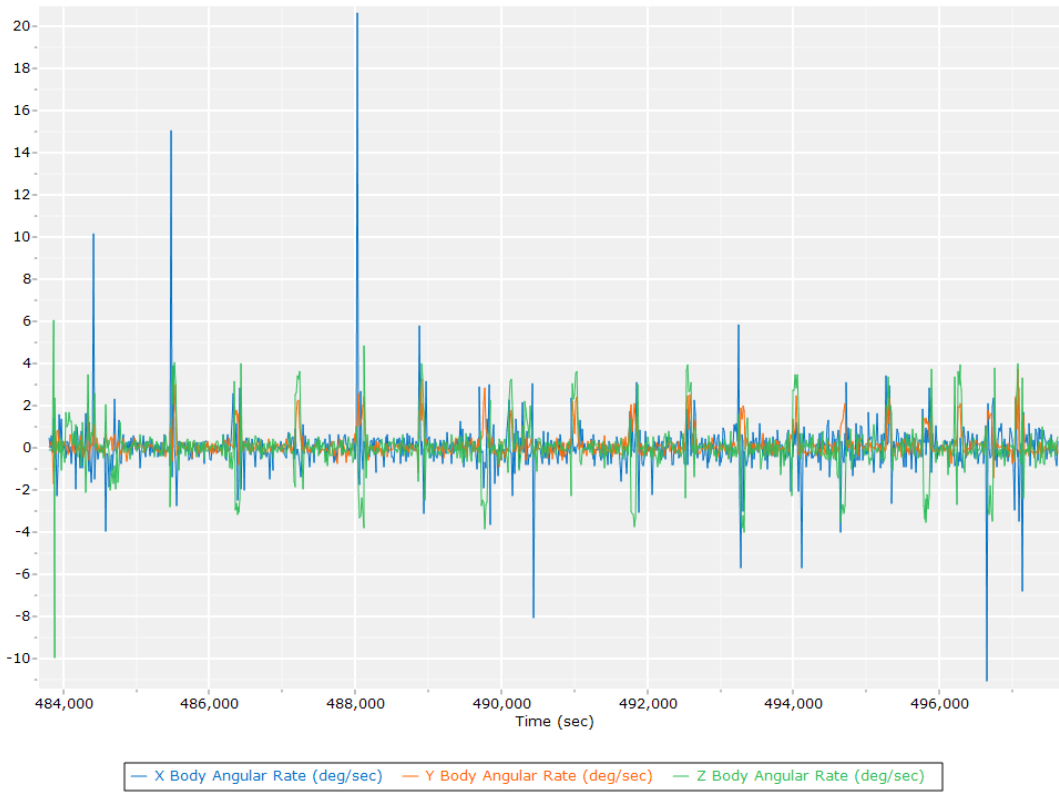
Body Acceleration



Total Body Acceleration

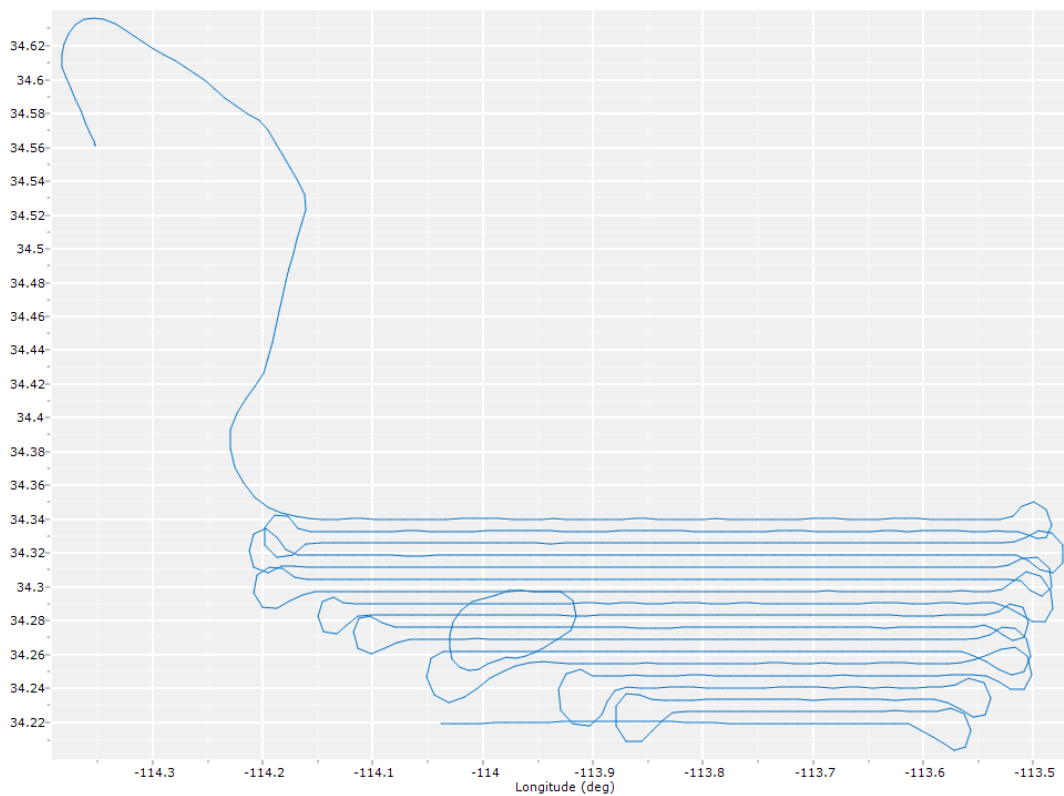


Body Angular Rate

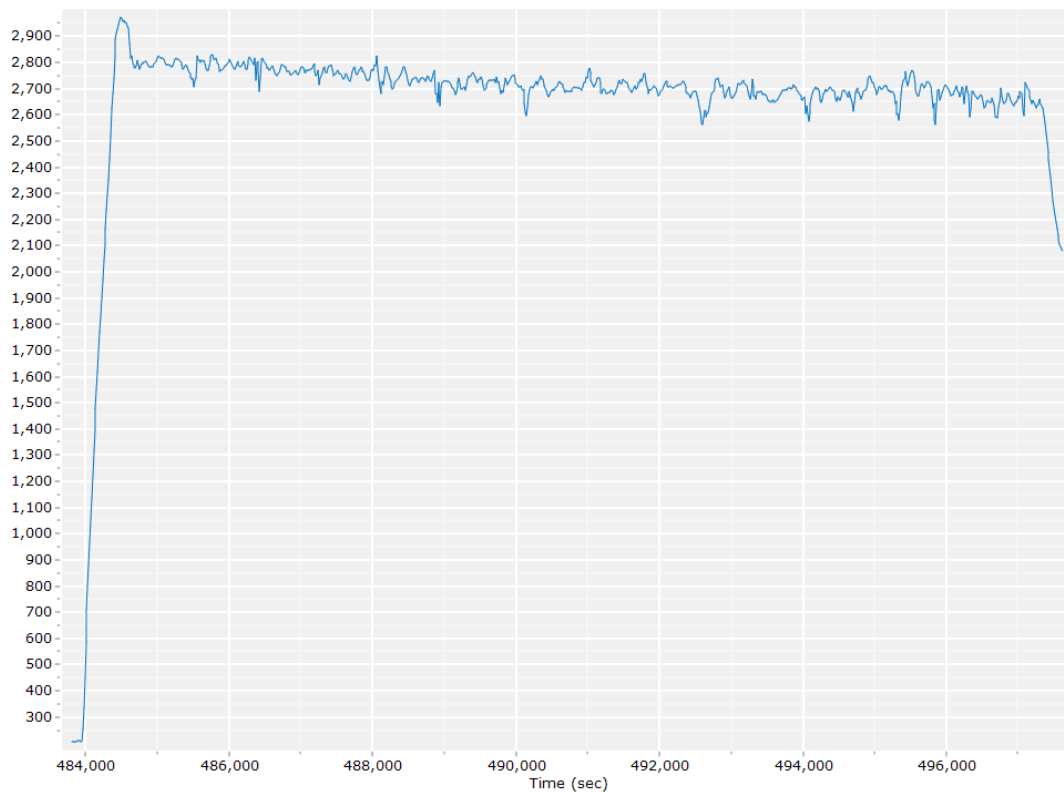


Forward Processed Trajectory Information

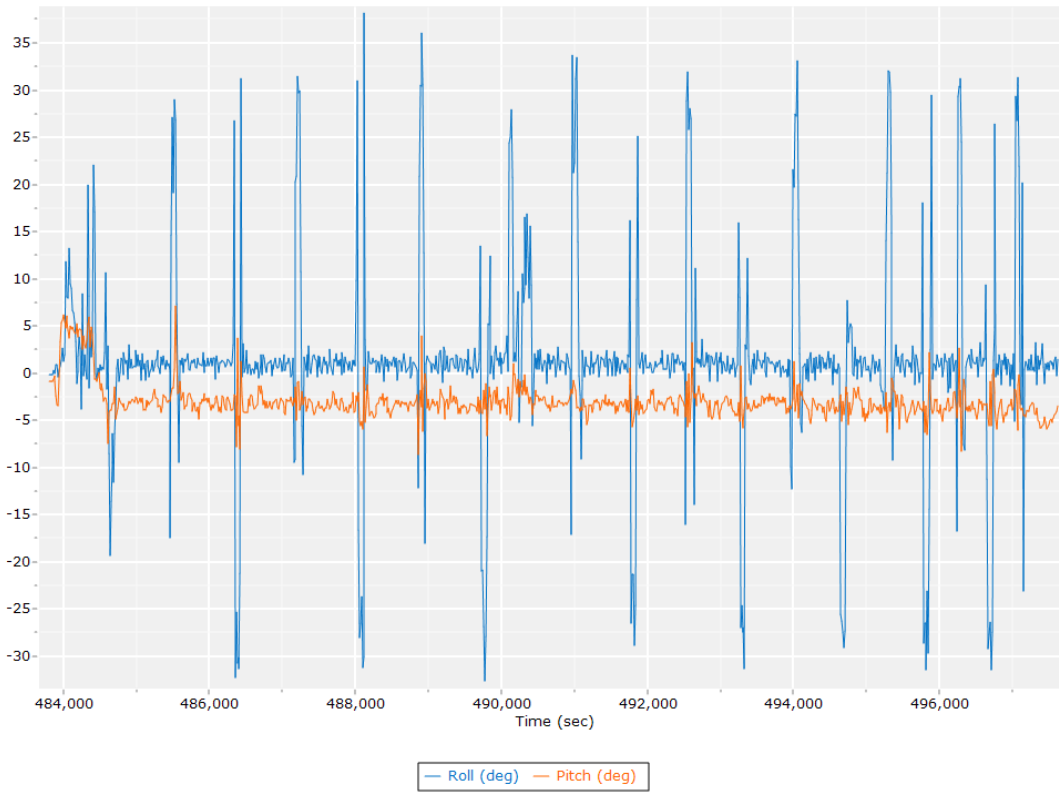
Top View



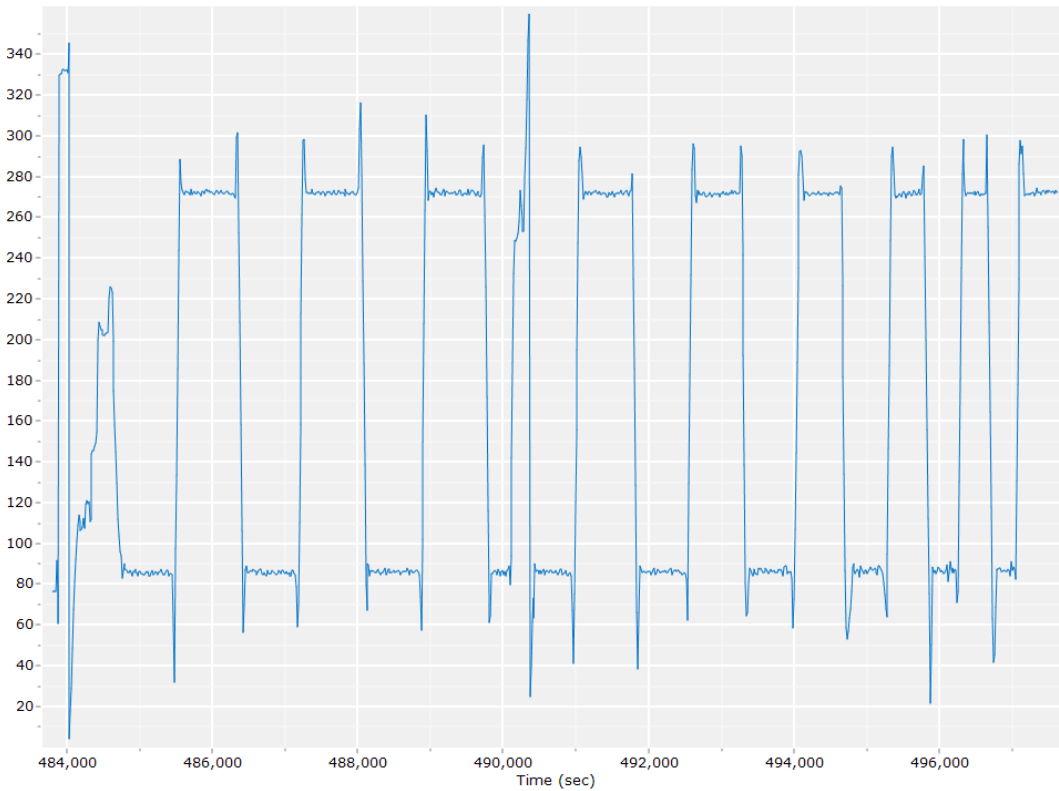
Altitude



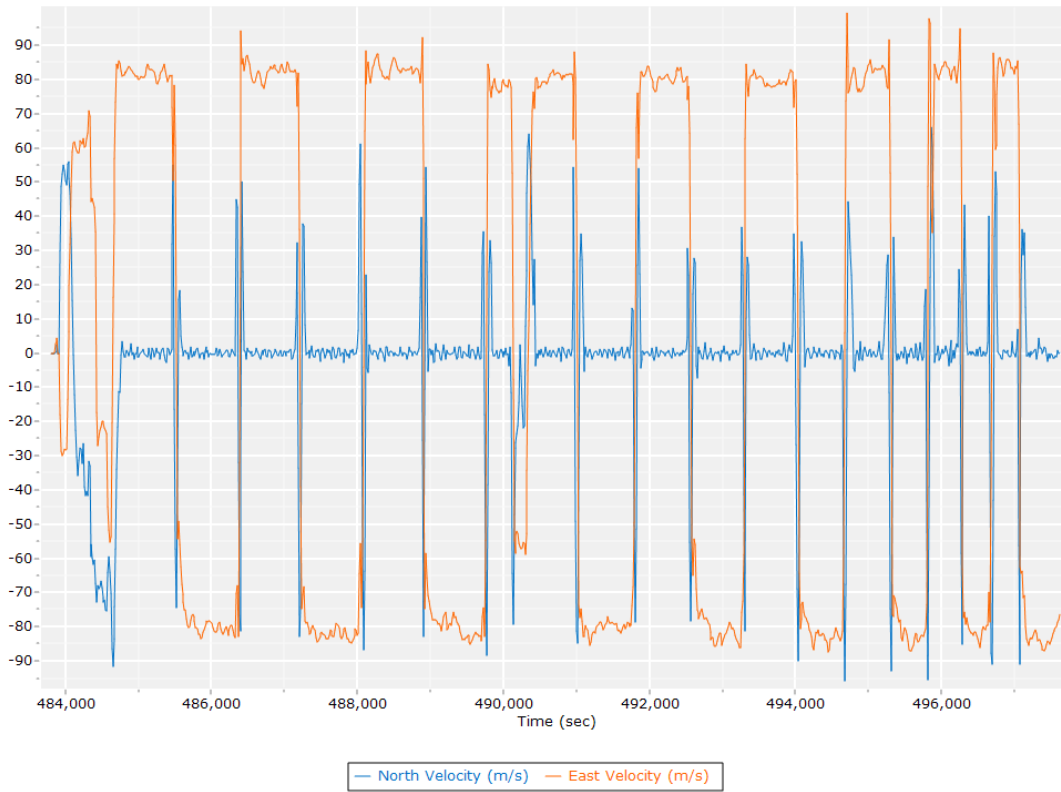
Roll/Pitch



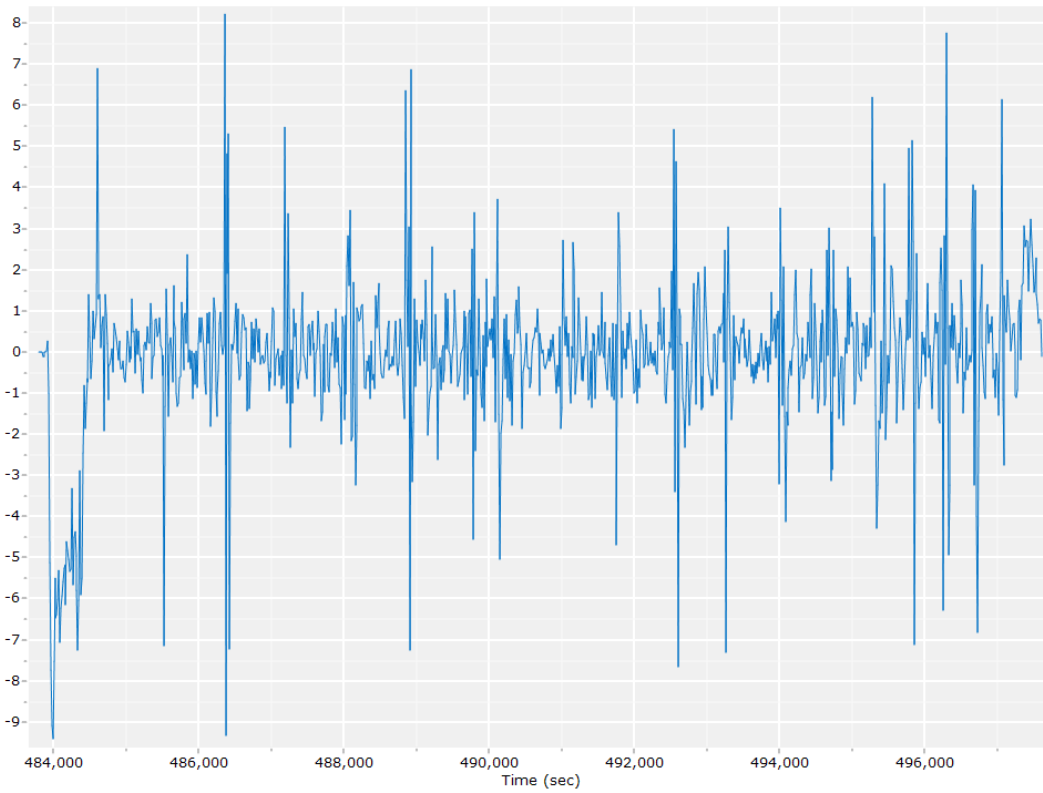
Heading



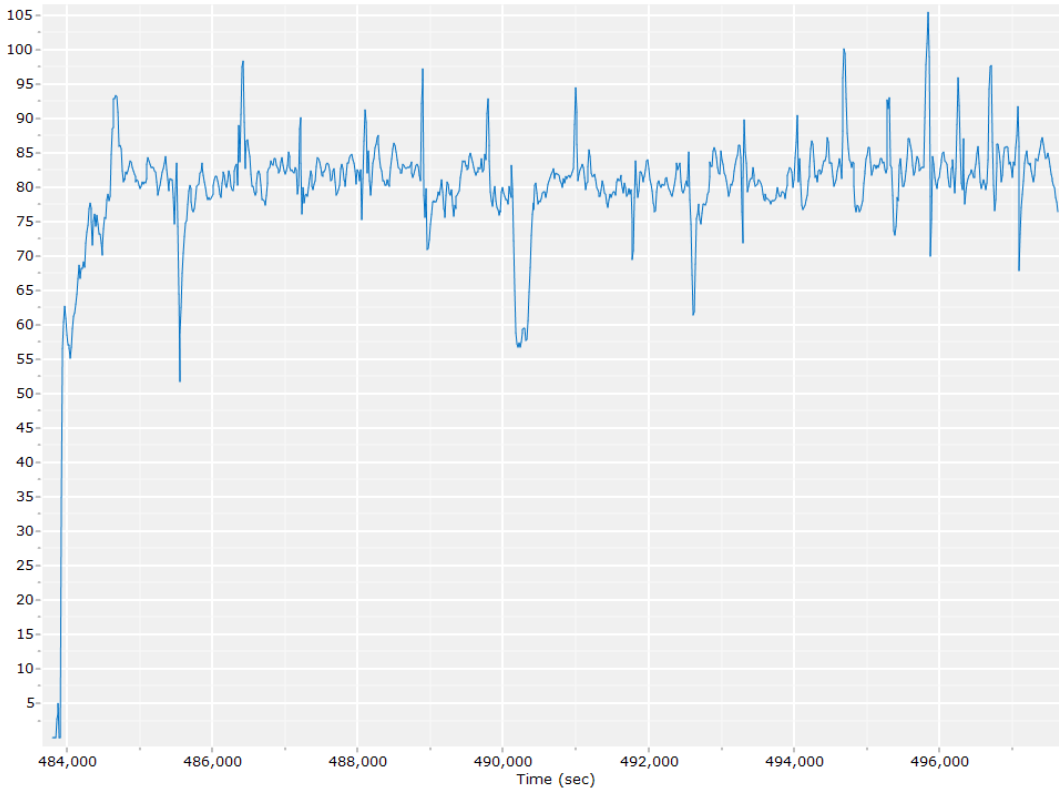
North/East Velocity



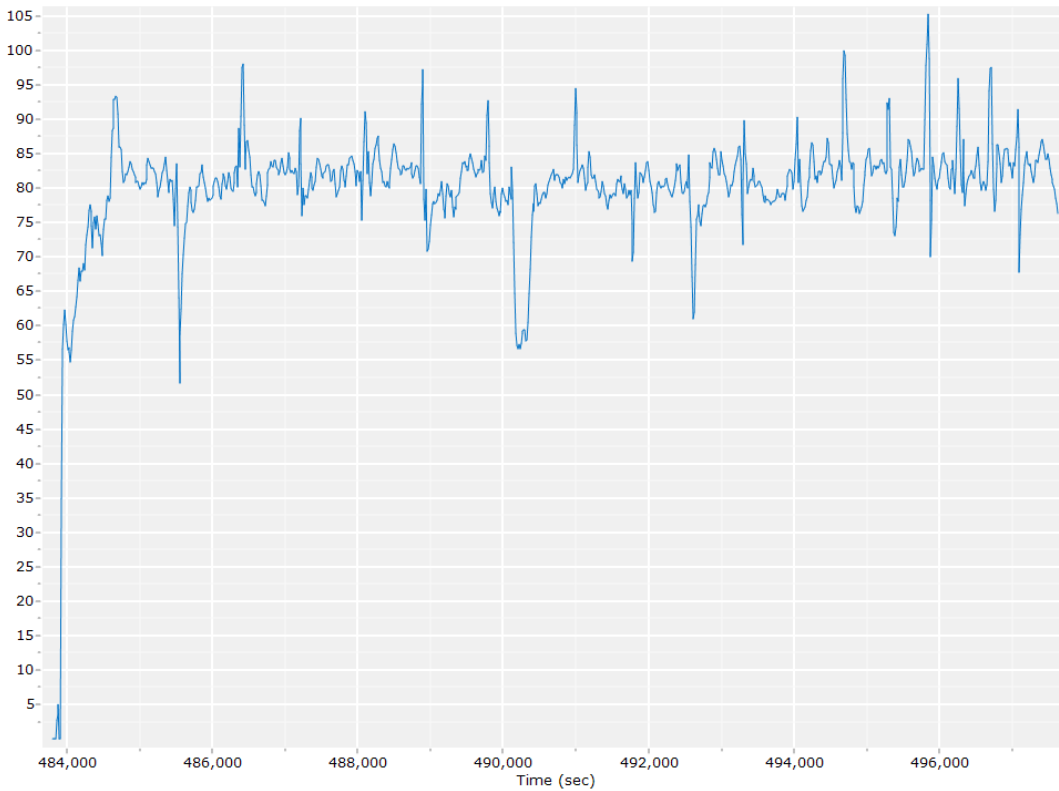
Down Velocity



Total Speed



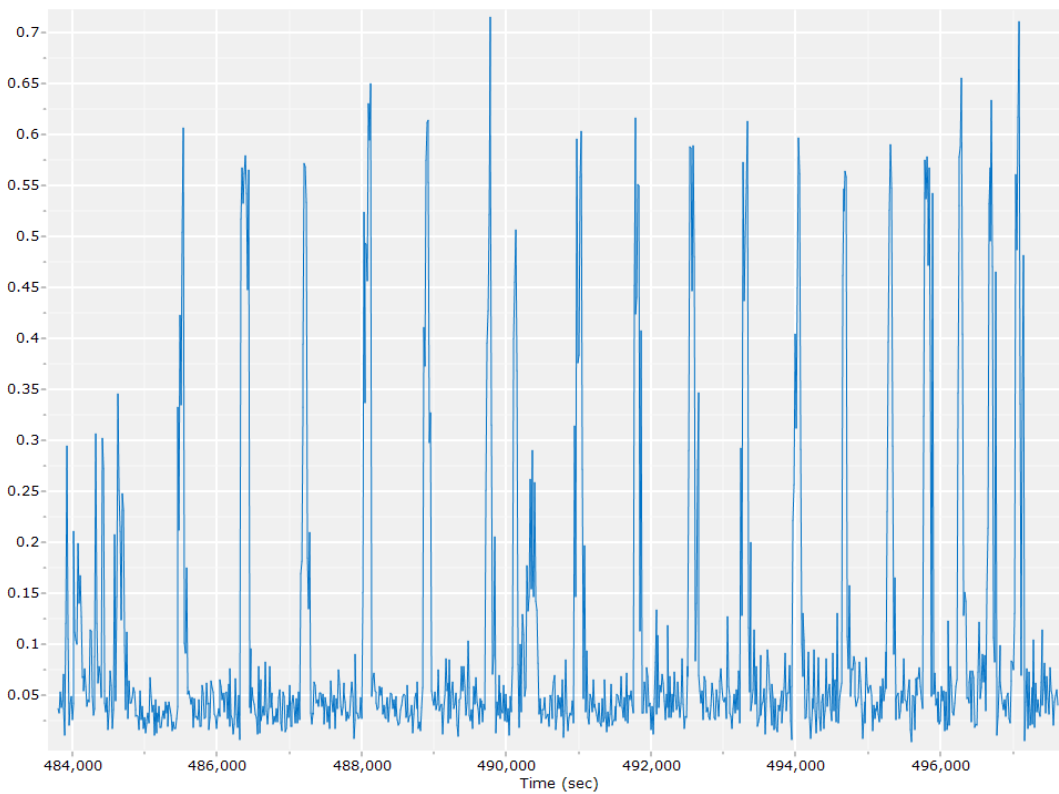
Ground Speed



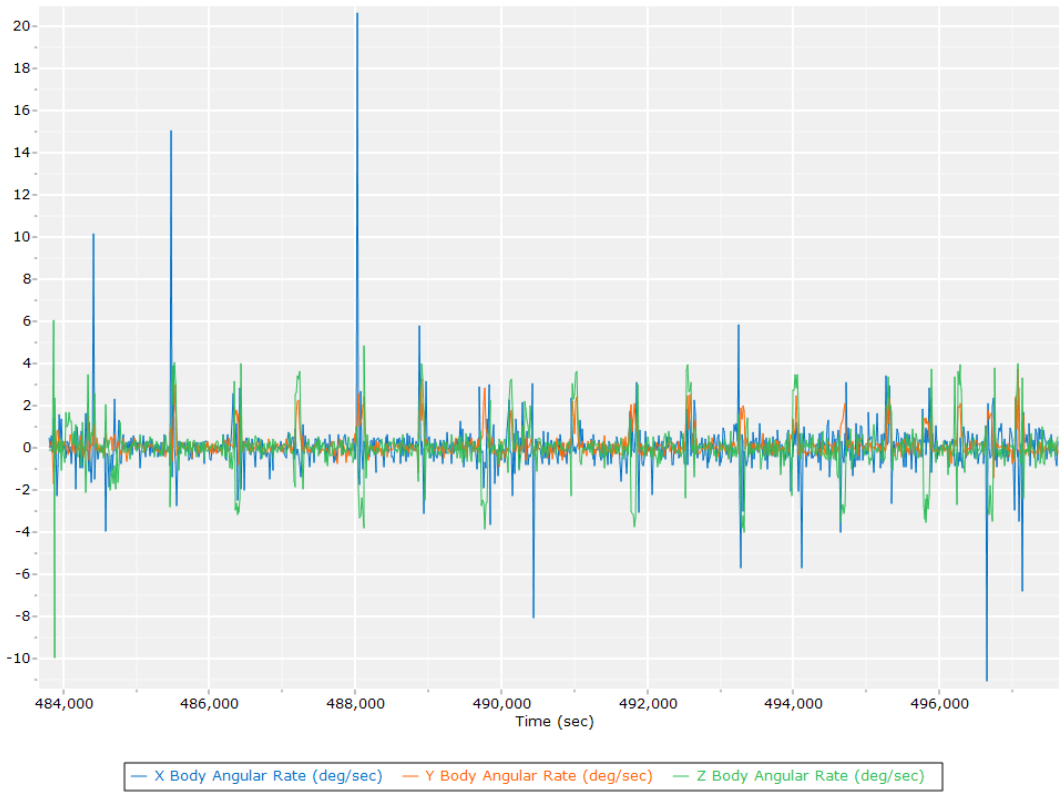
Body Acceleration



Total Body Acceleration



Body Angular Rate



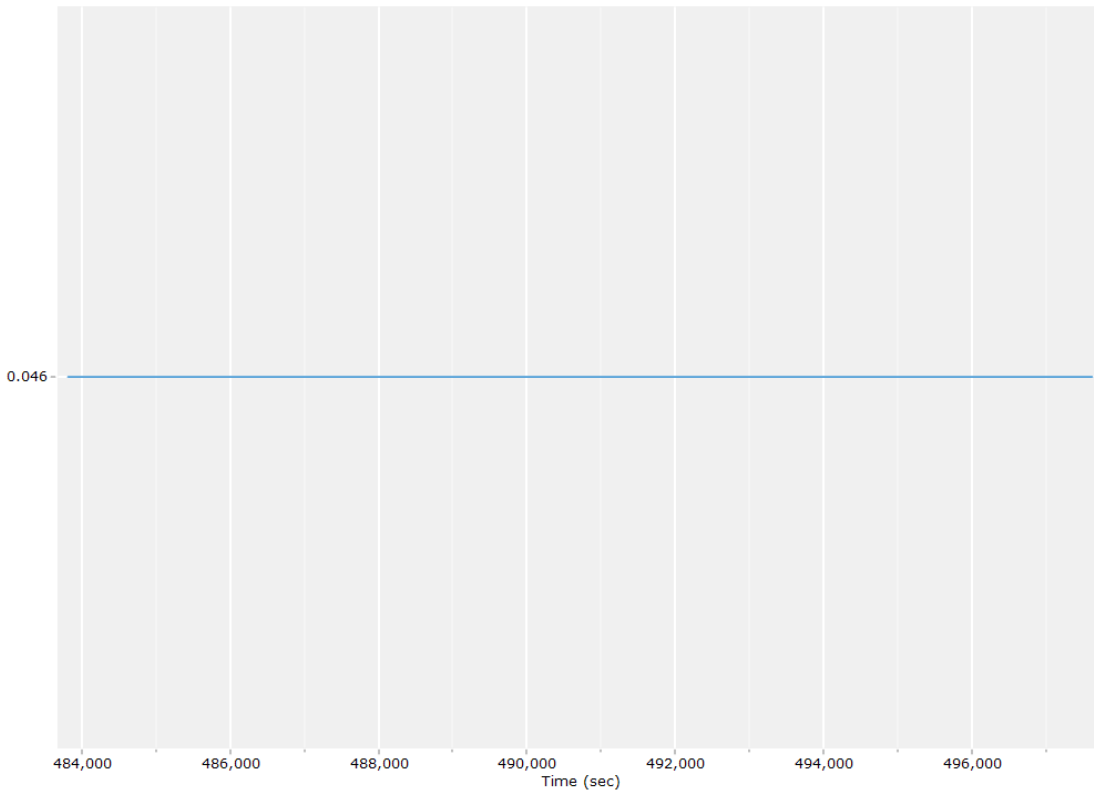
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	483748.000 (03/17/2023 14:22:28)		
Processing end time	497632.000 (03/17/2023 18:13:52)		
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)	0.046	-0.153	-0.934
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

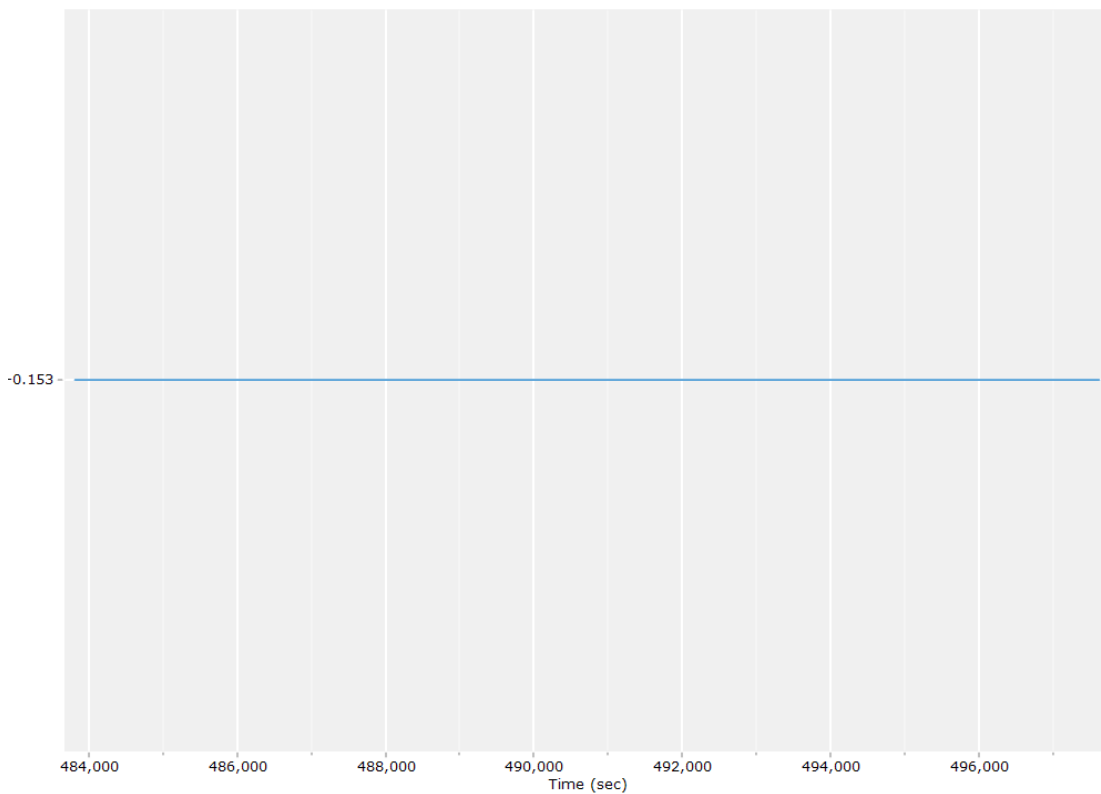
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

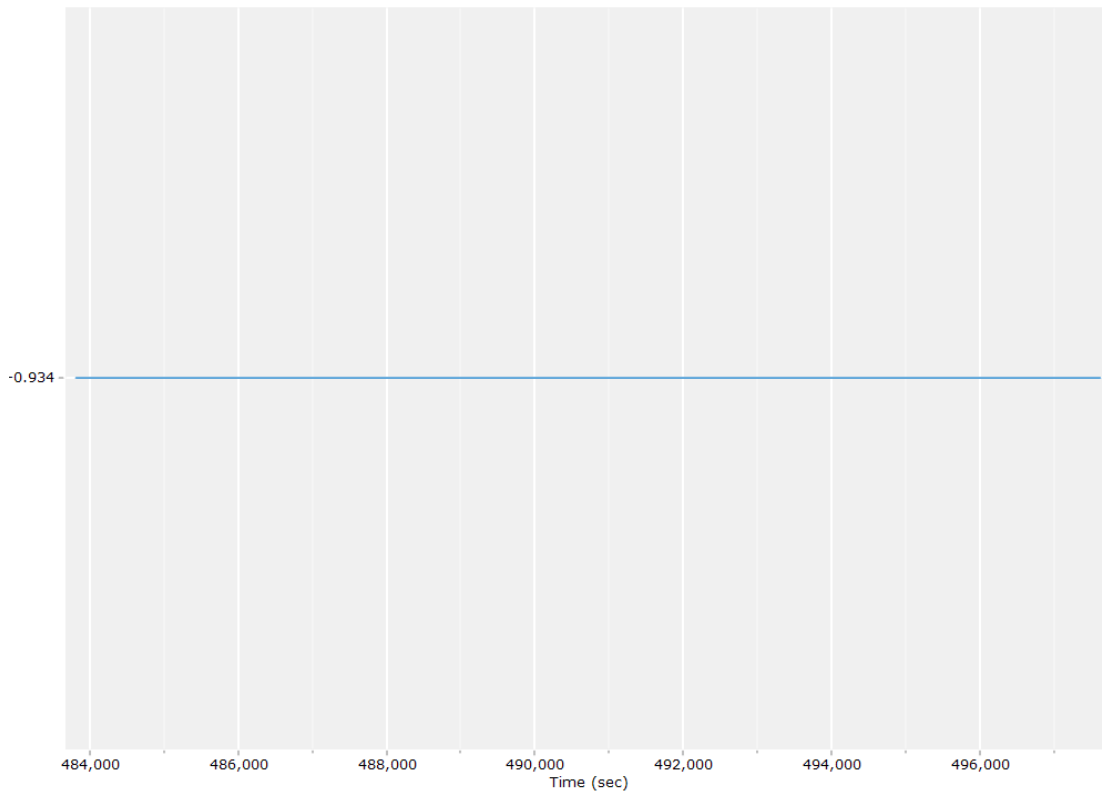
X Reference-Primary GNSS Lever Arm (m)



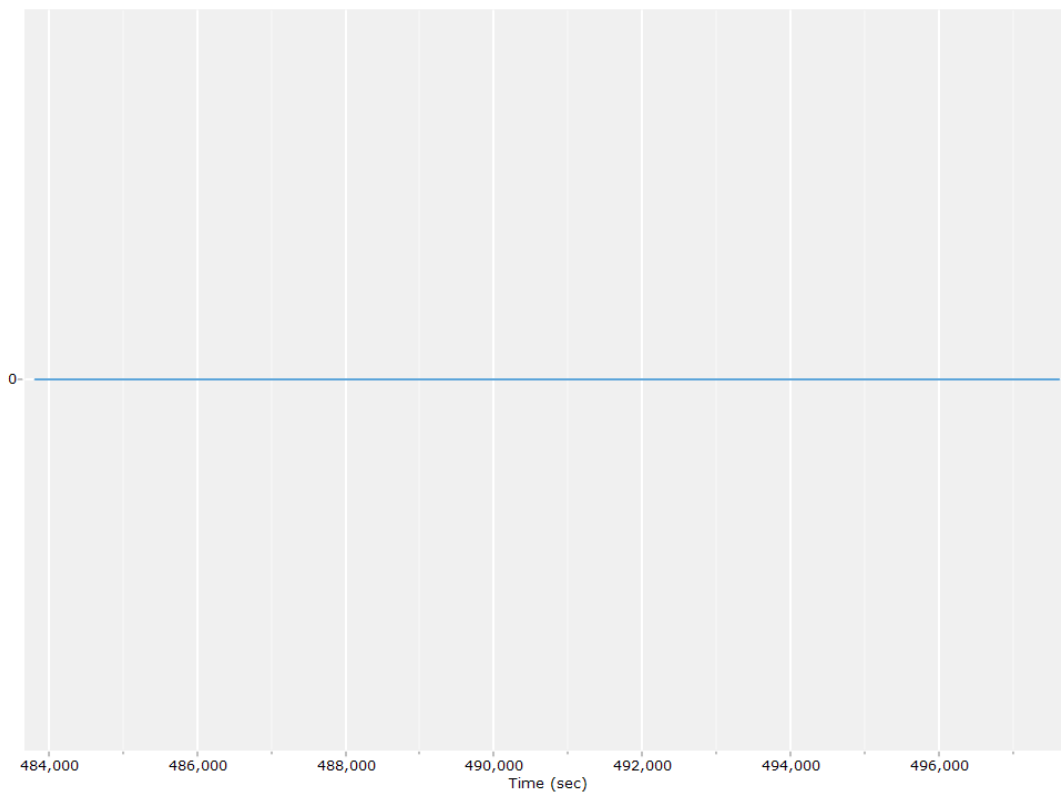
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



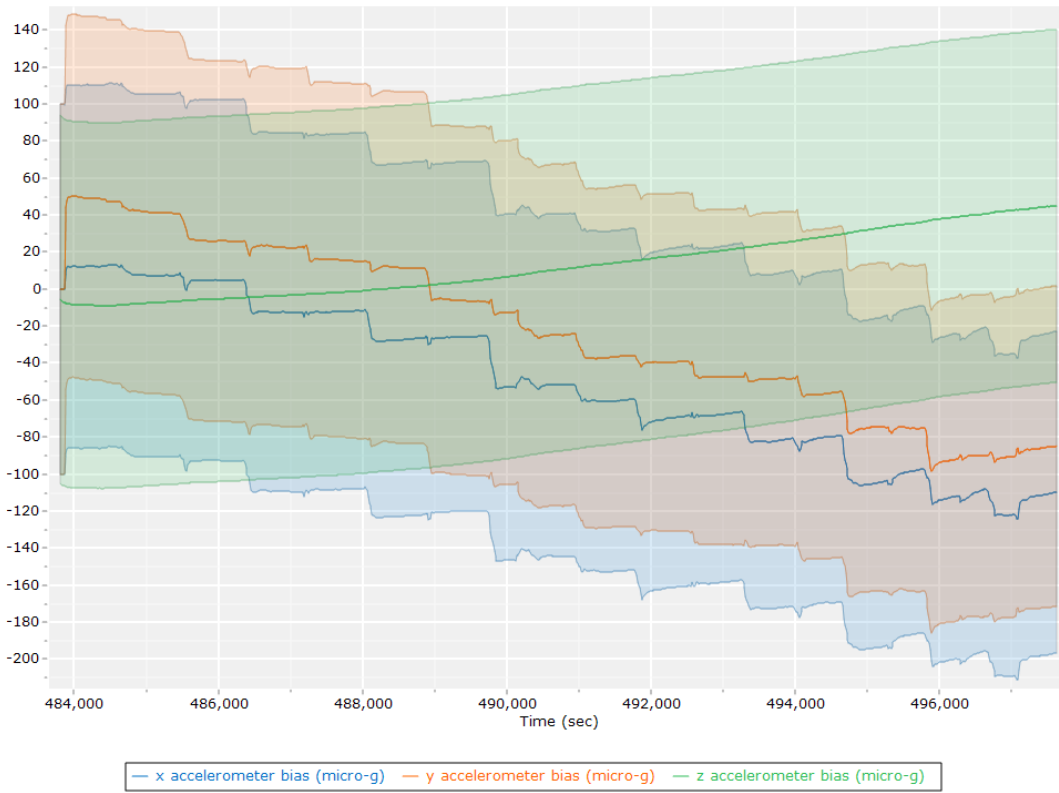
Reference-Primary GNSS Lever Arm Figure of Merit



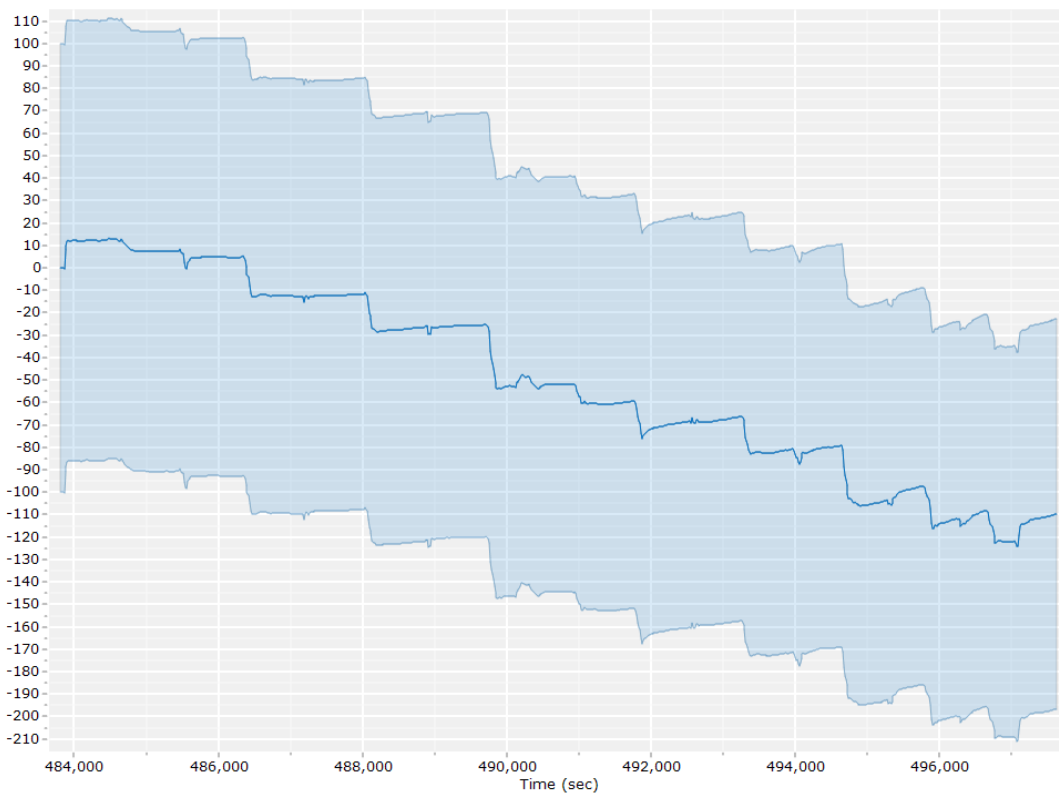
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

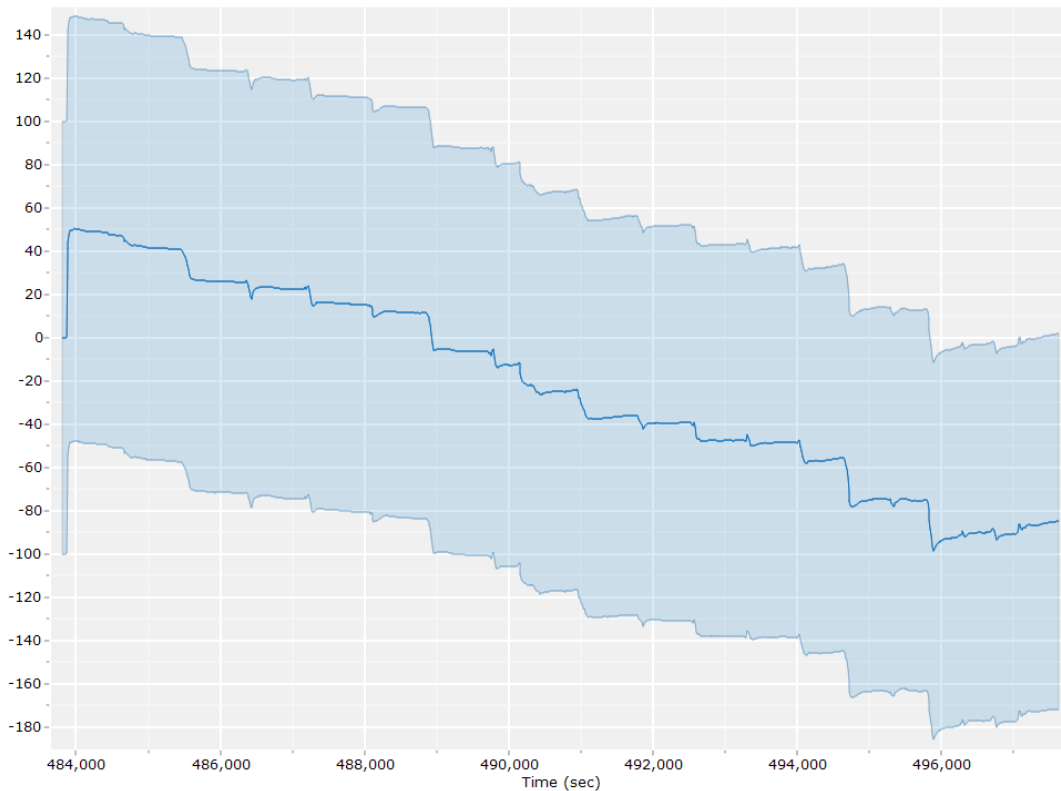
Accelerometer Bias (micro-g)



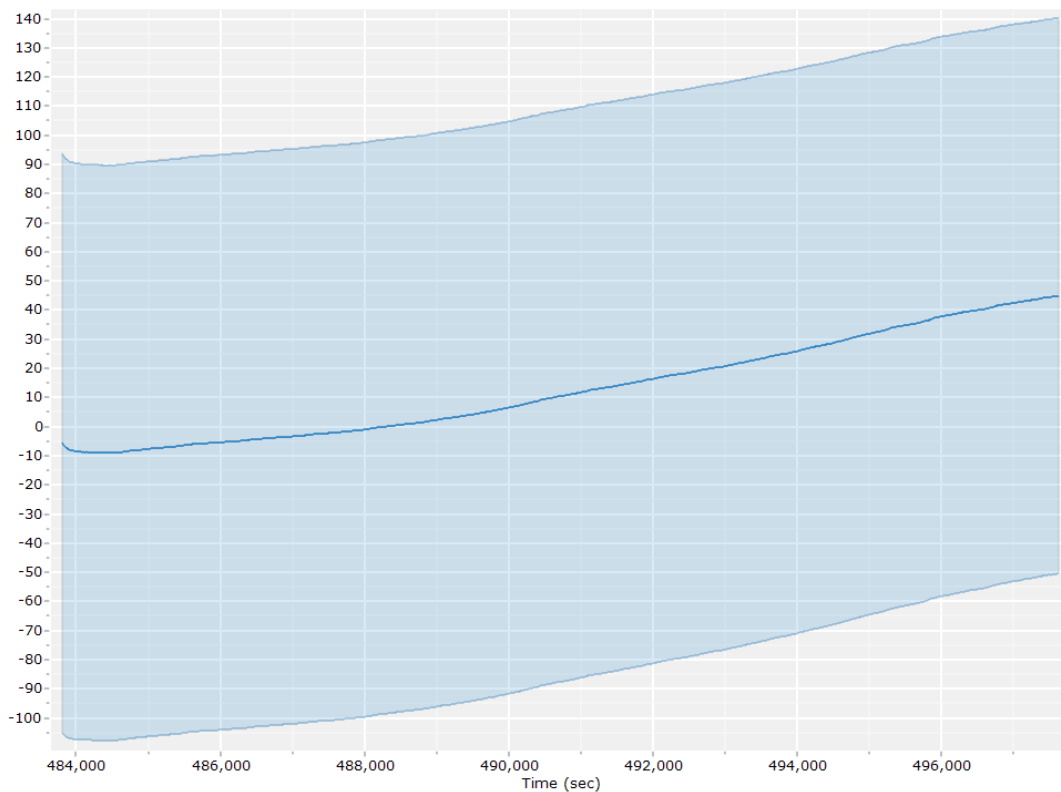
X Accelerometer Bias (micro-g)



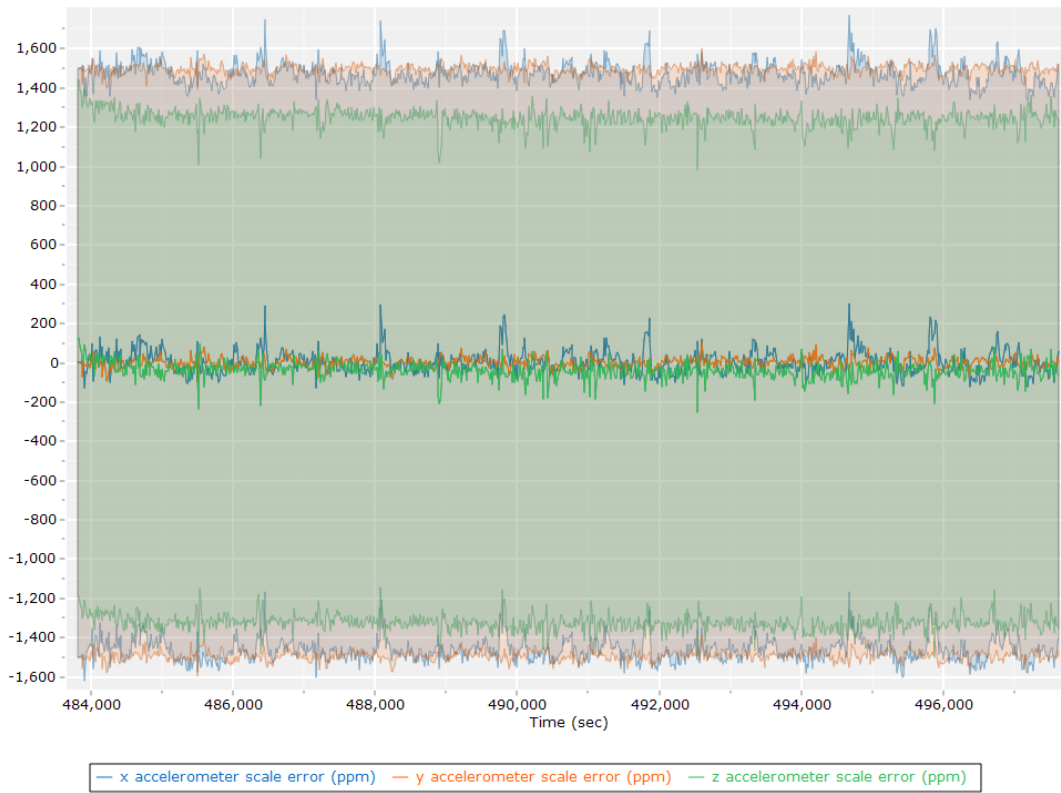
Y Accelerometer Bias (micro-g)



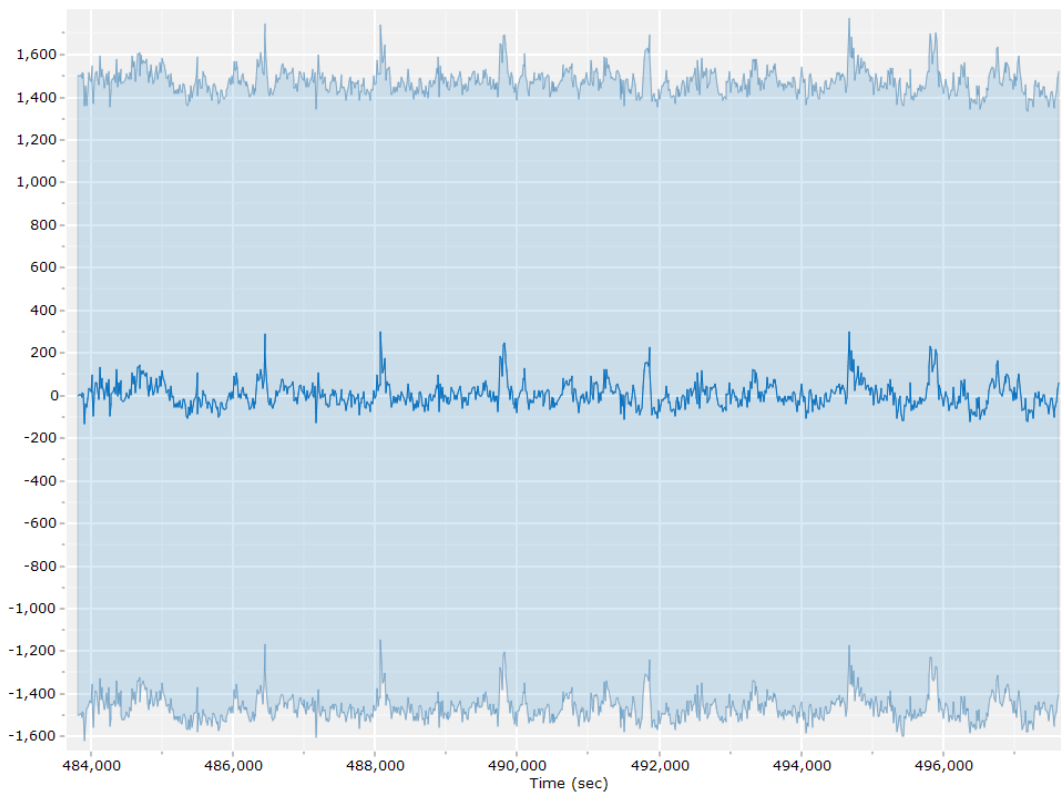
Z Accelerometer Bias (micro-g)



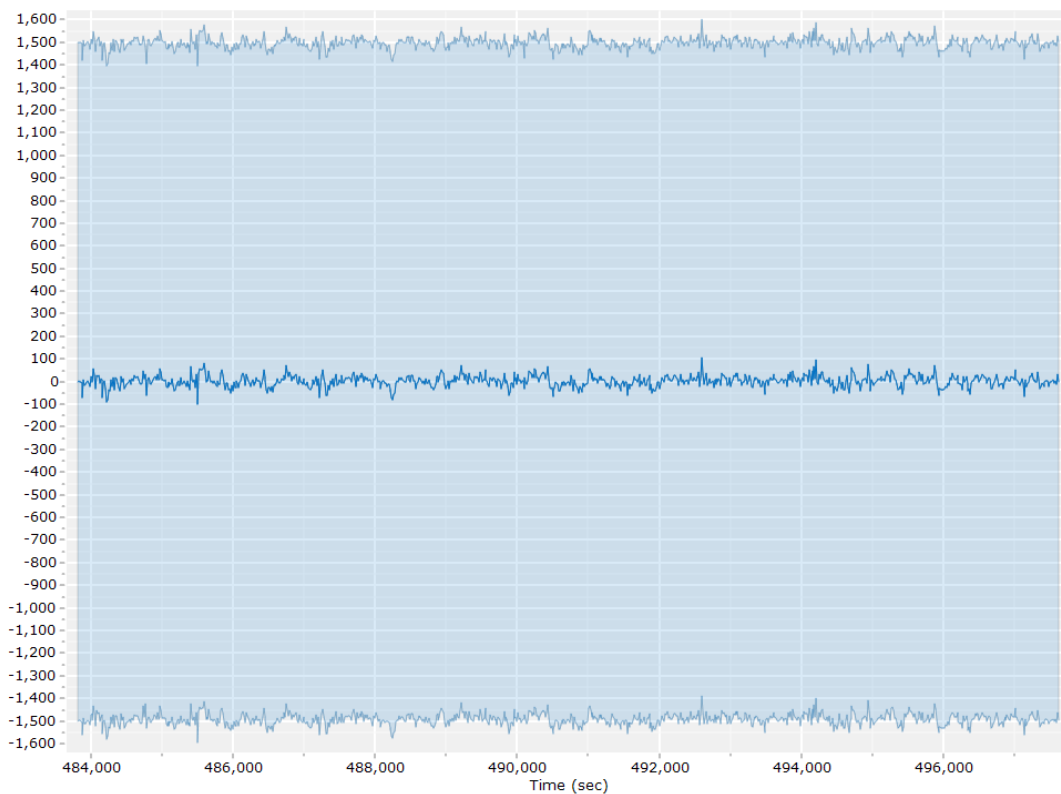
Accelerometer Scale Error (ppm)



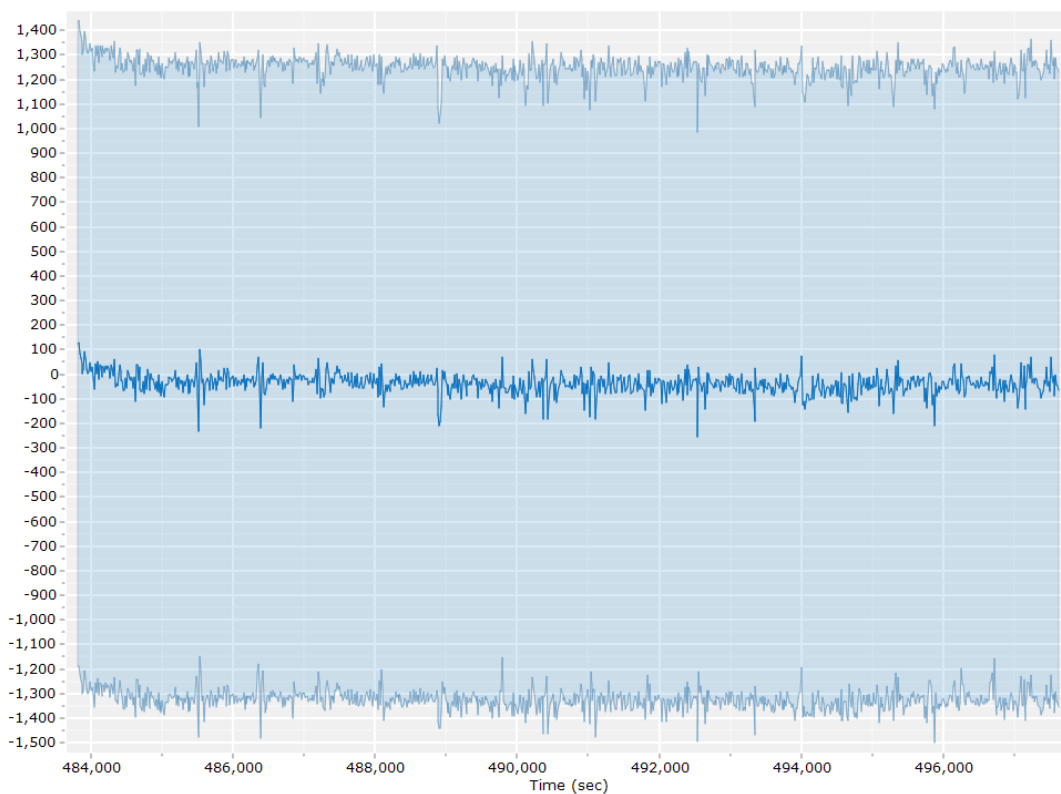
X Accelerometer Scale Error (ppm)



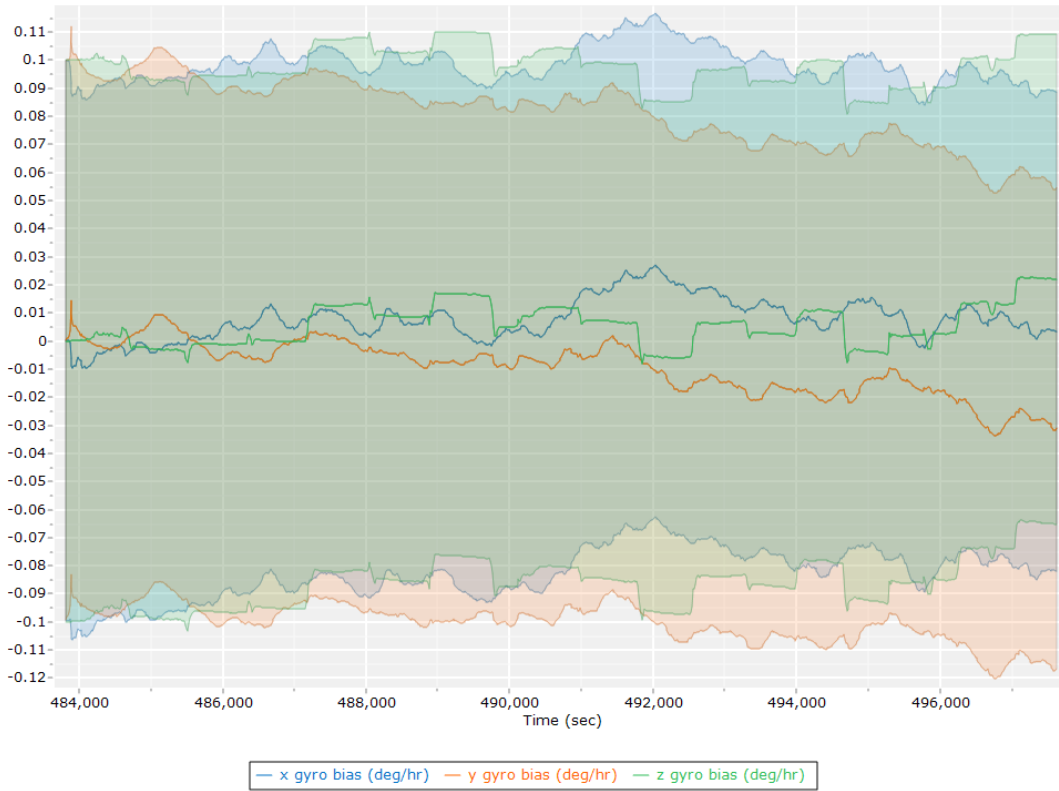
Y Accelerometer Scale Error (ppm)



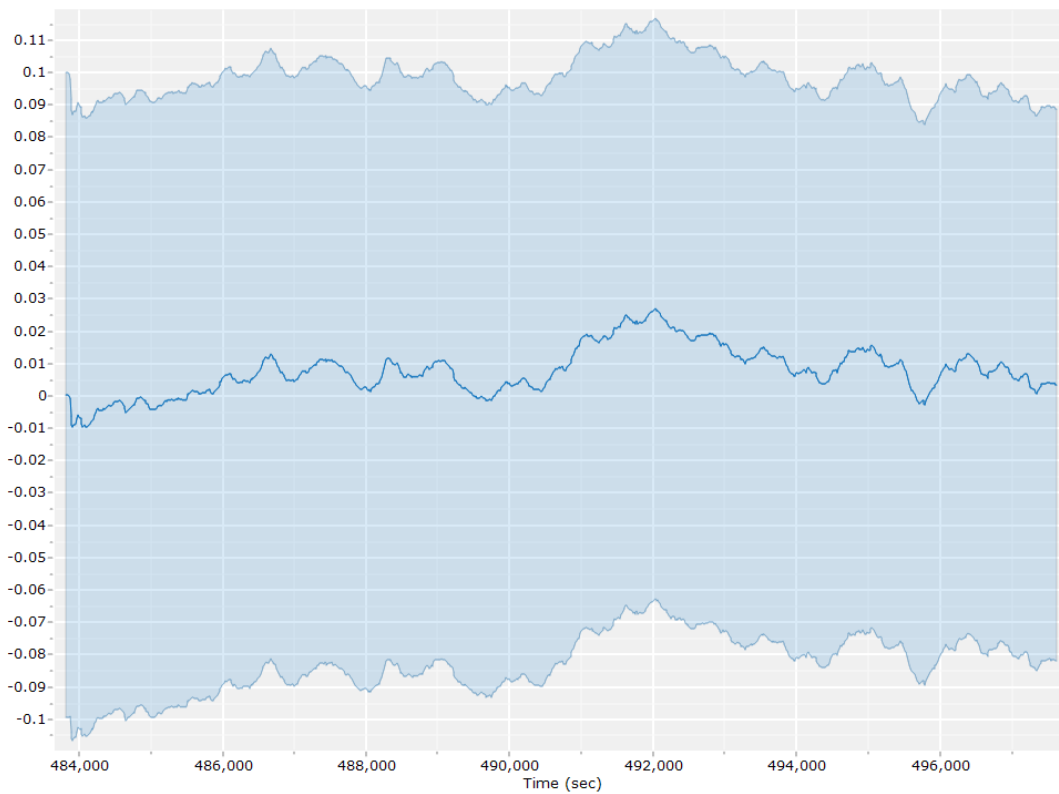
Z Accelerometer Scale Error (ppm)



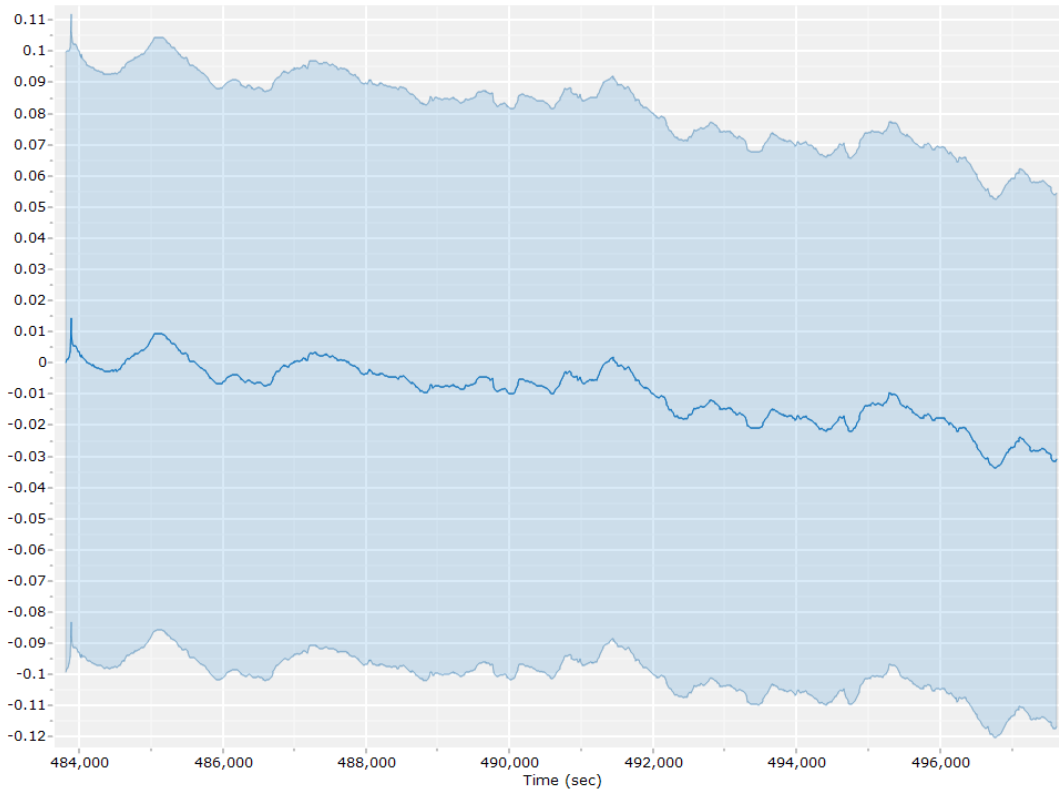
Gyro Bias (deg/h)



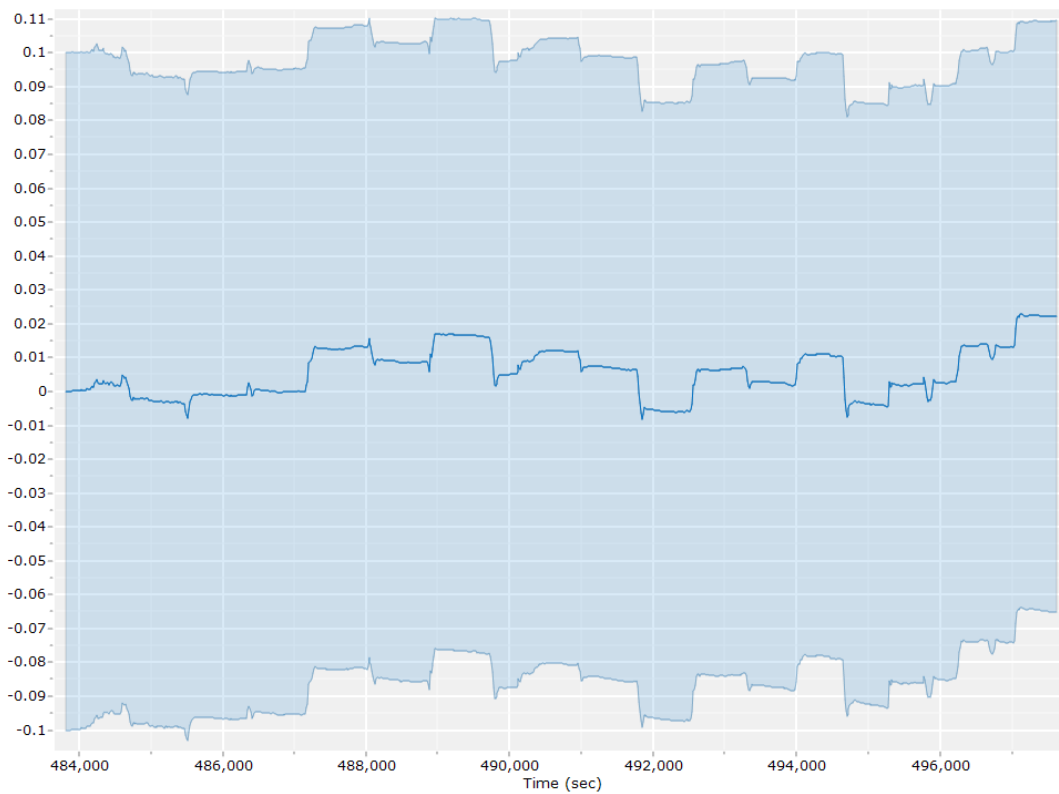
X Gyro Bias (deg/h)



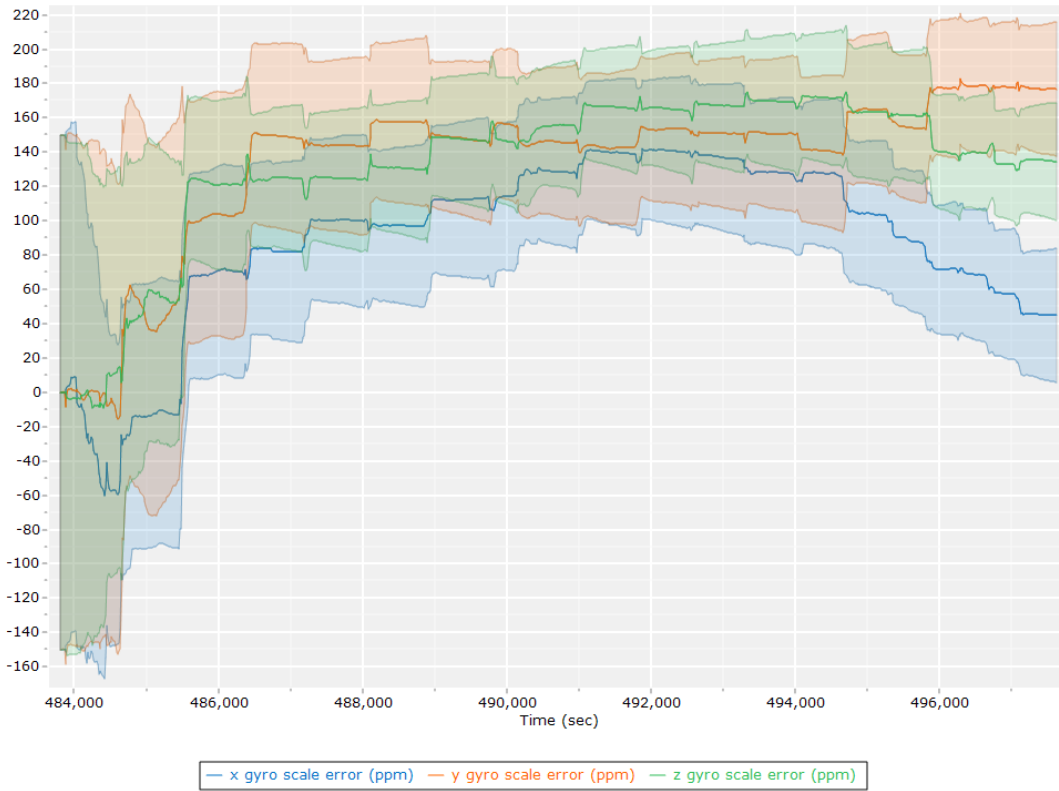
Y Gyro Bias (deg/h)



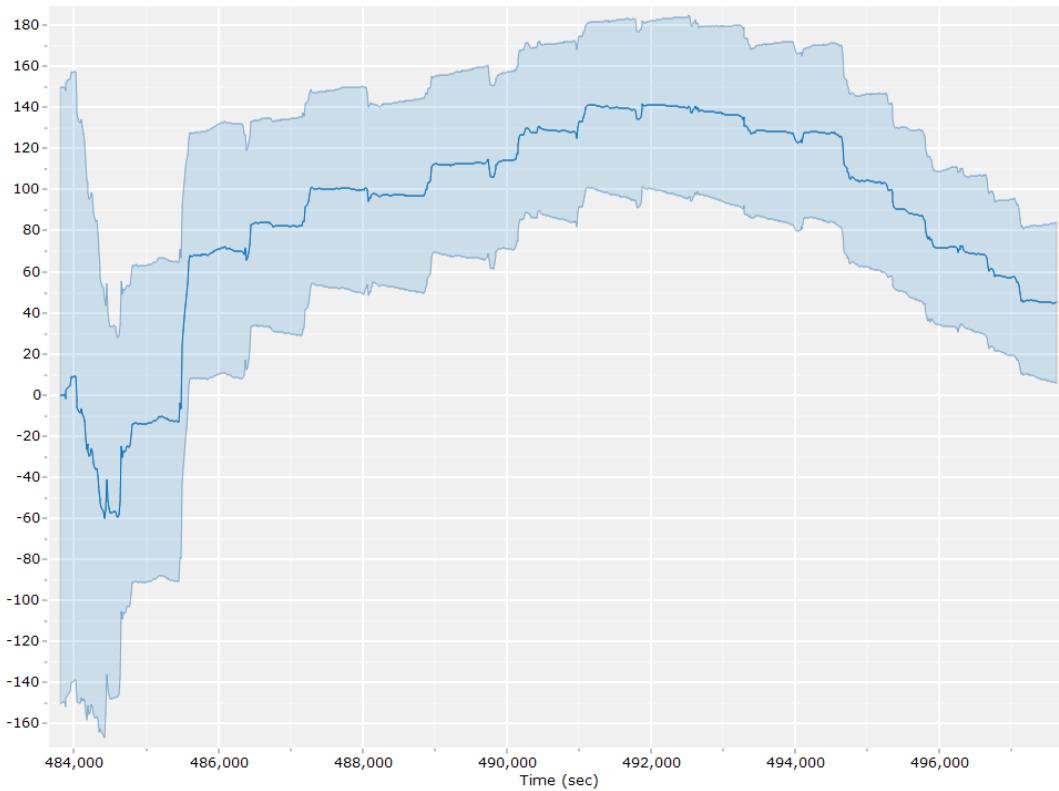
Z Gyro Bias (deg/h)



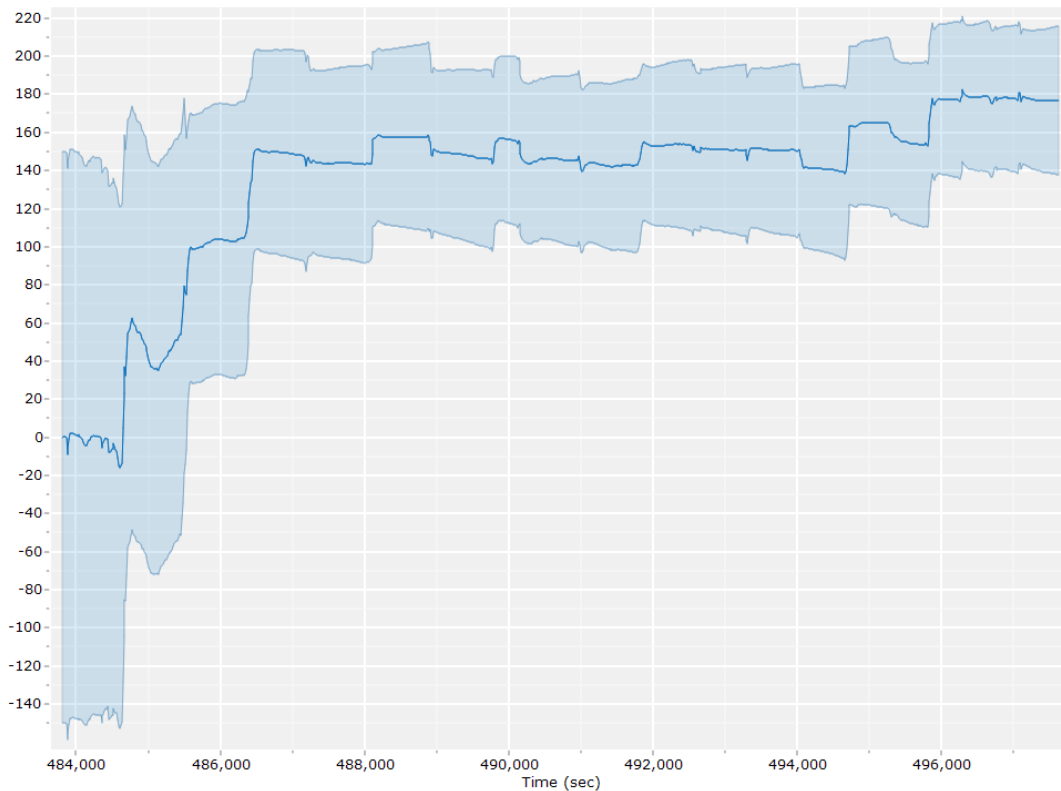
Gyro Scale Error (ppm)



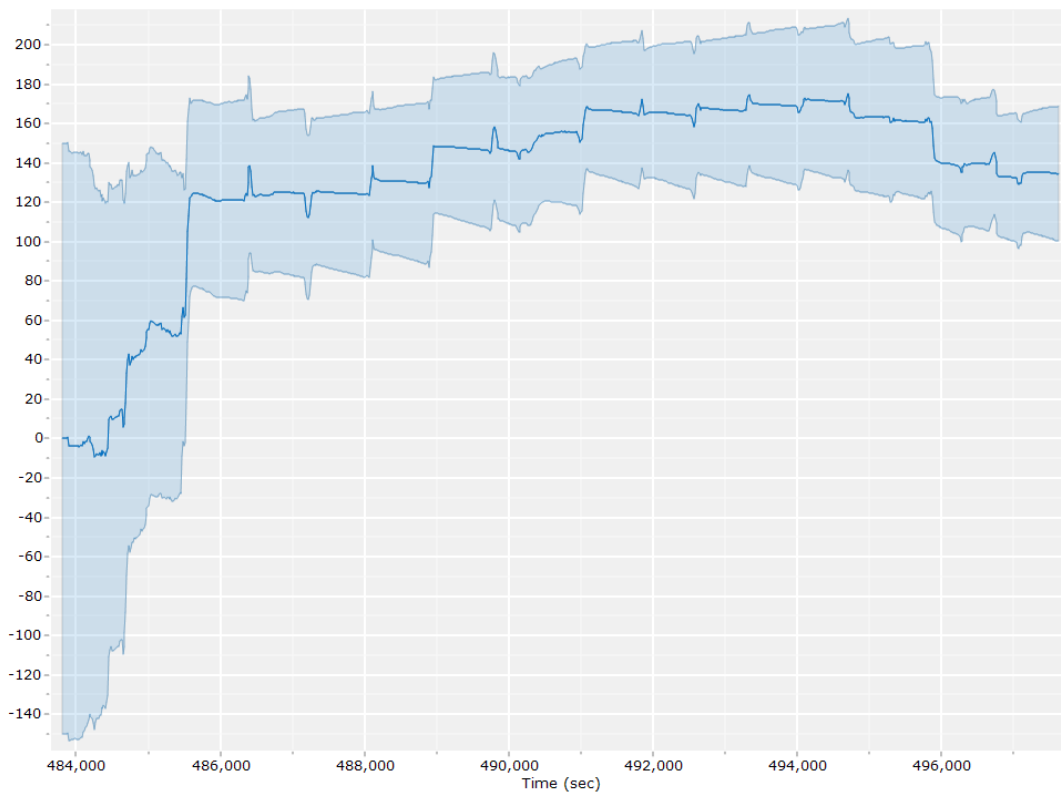
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

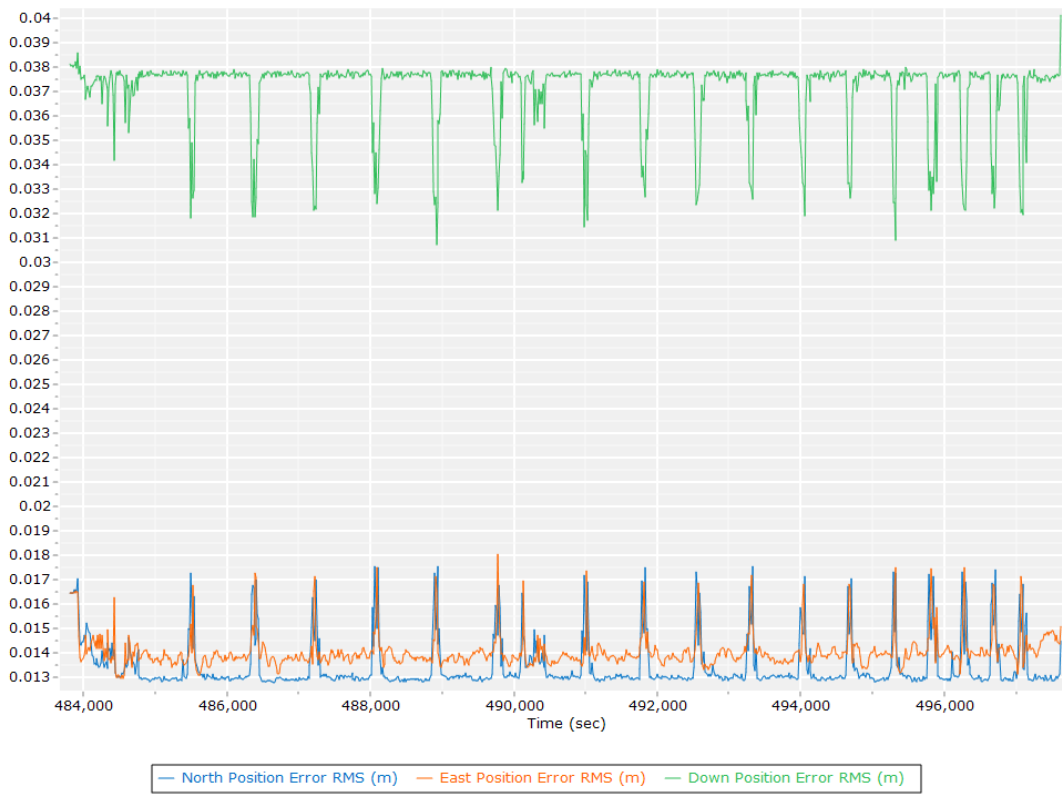


Z Gyro Scale Error (ppm)

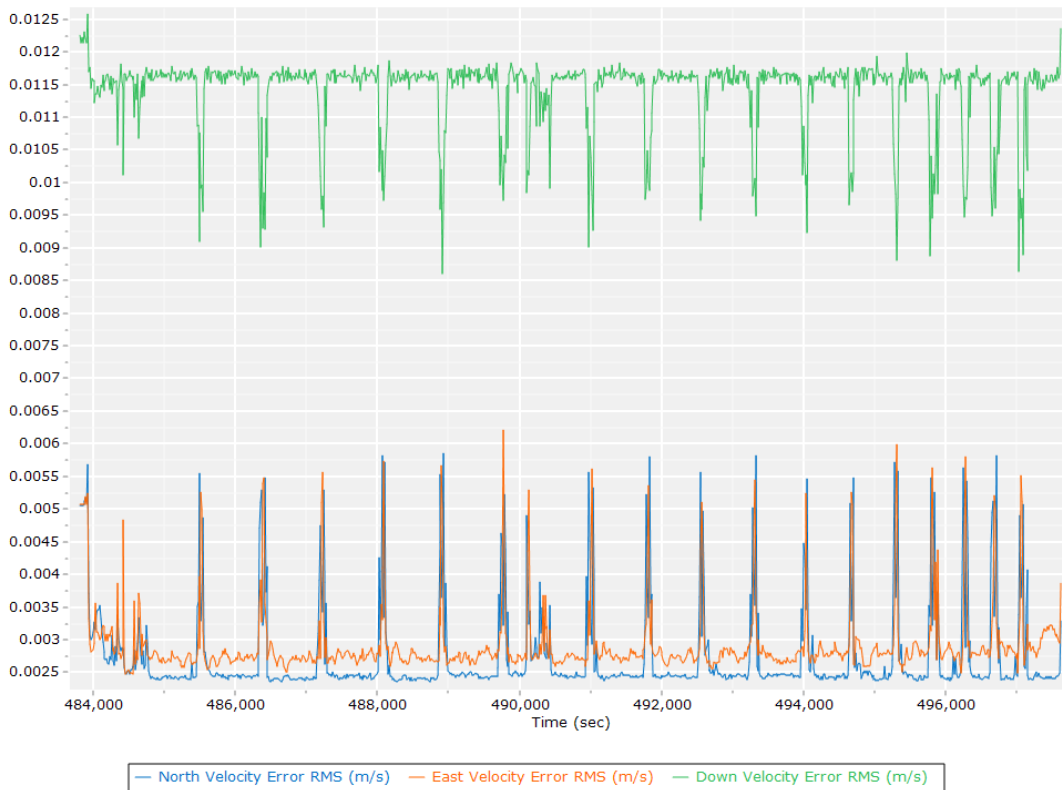


Smoothed Performance Metrics

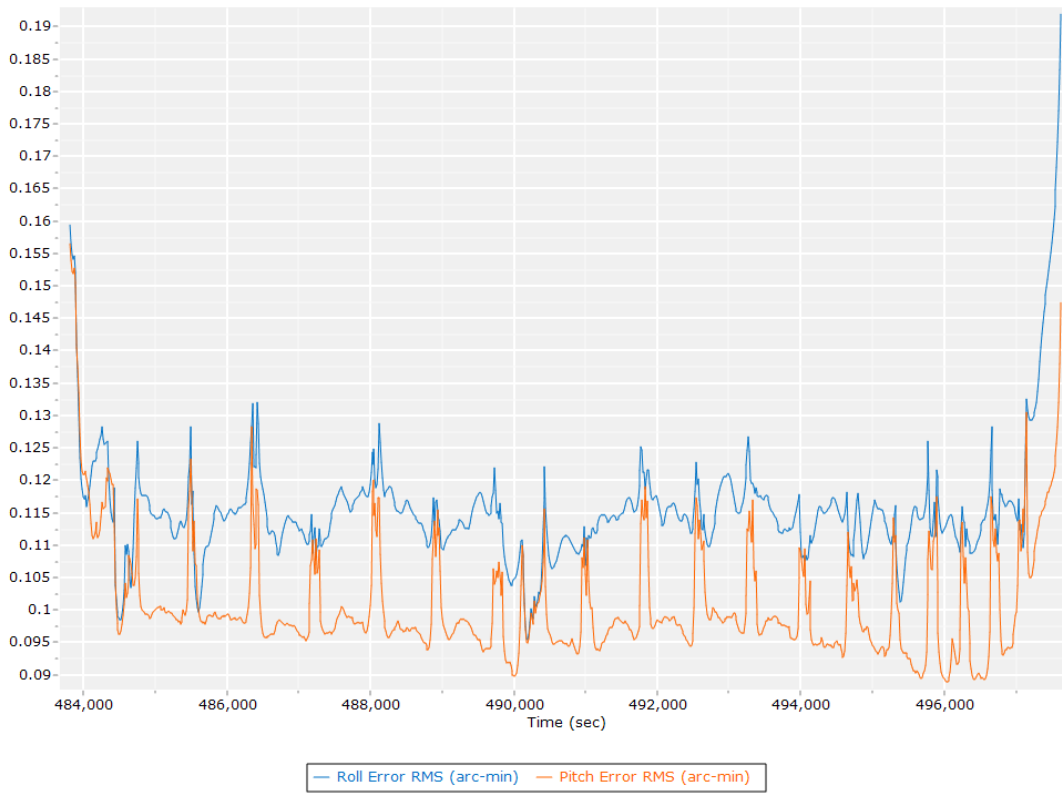
Position Error RMS (m)



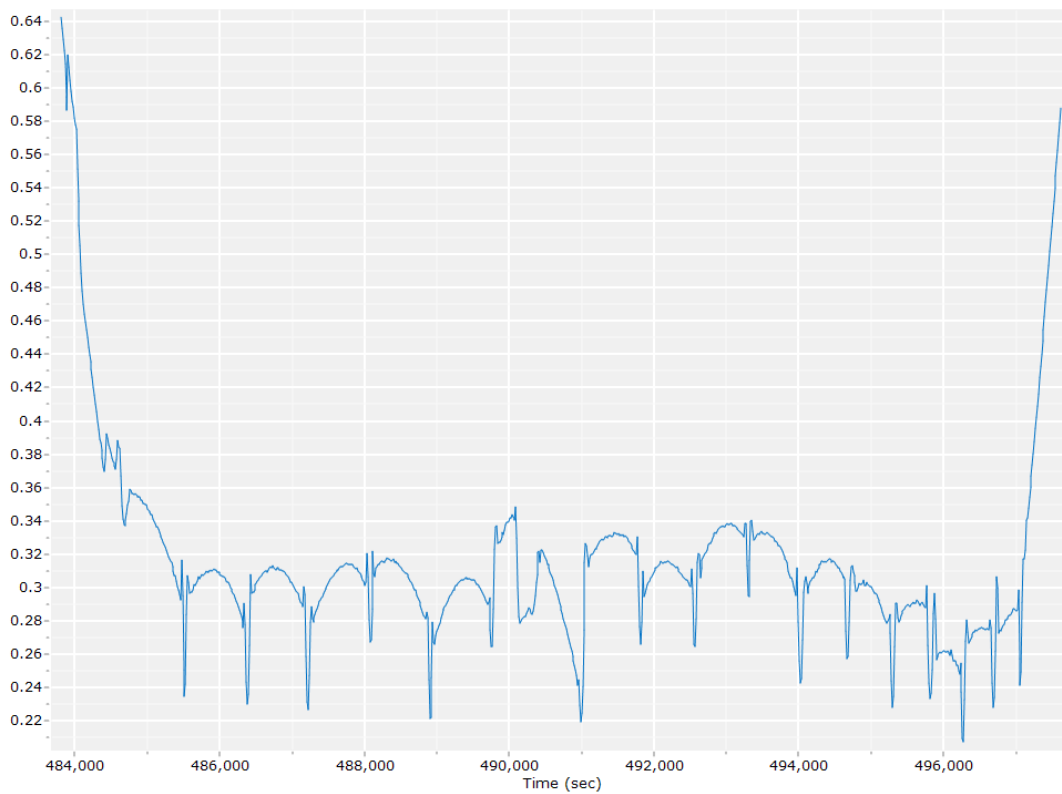
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

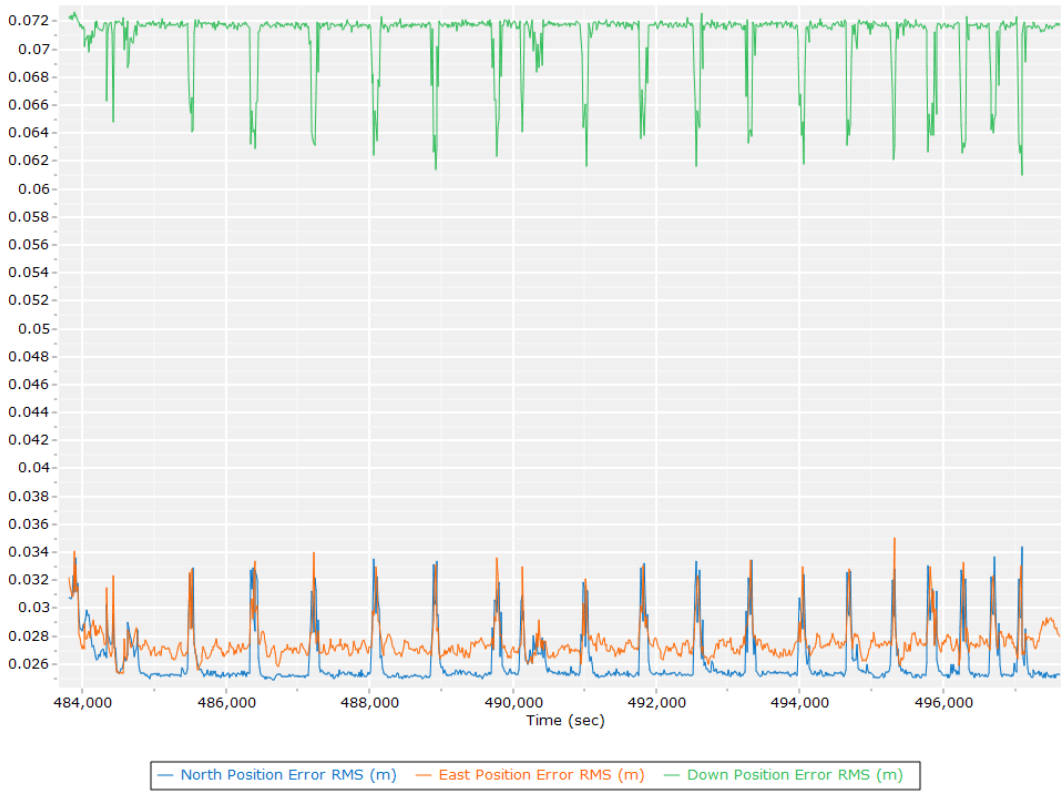


Heading Error RMS (arc-min)



Forward Processed Performance Metrics

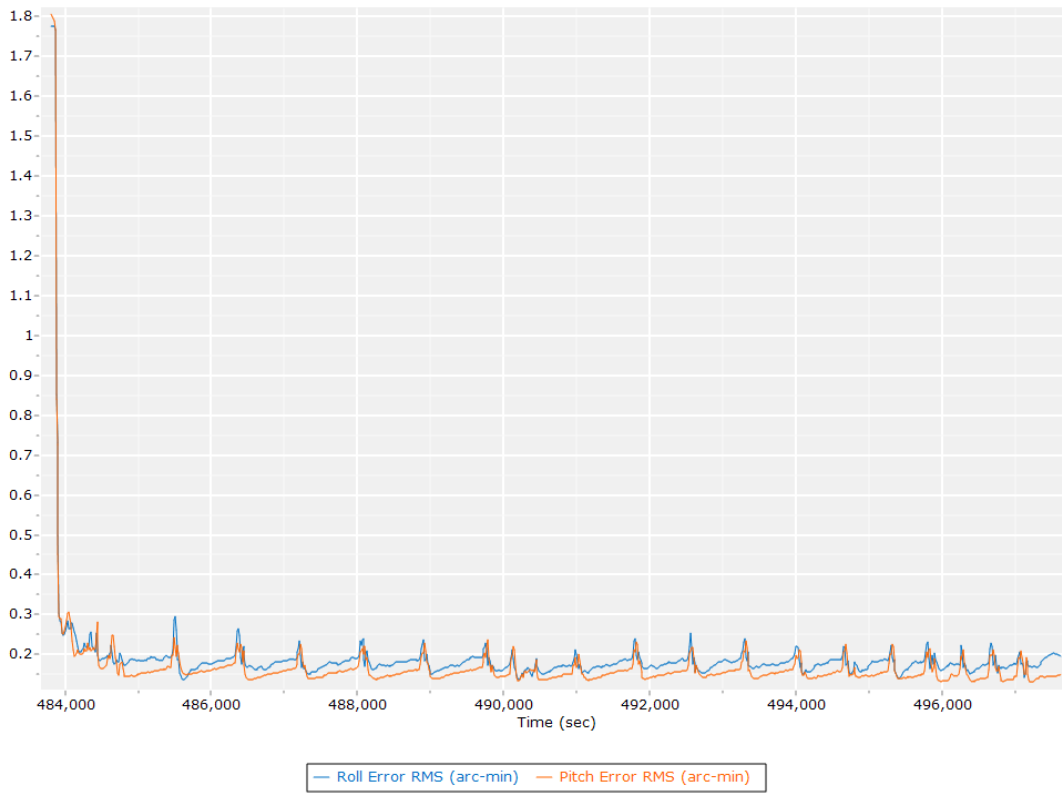
Position Error RMS (m)



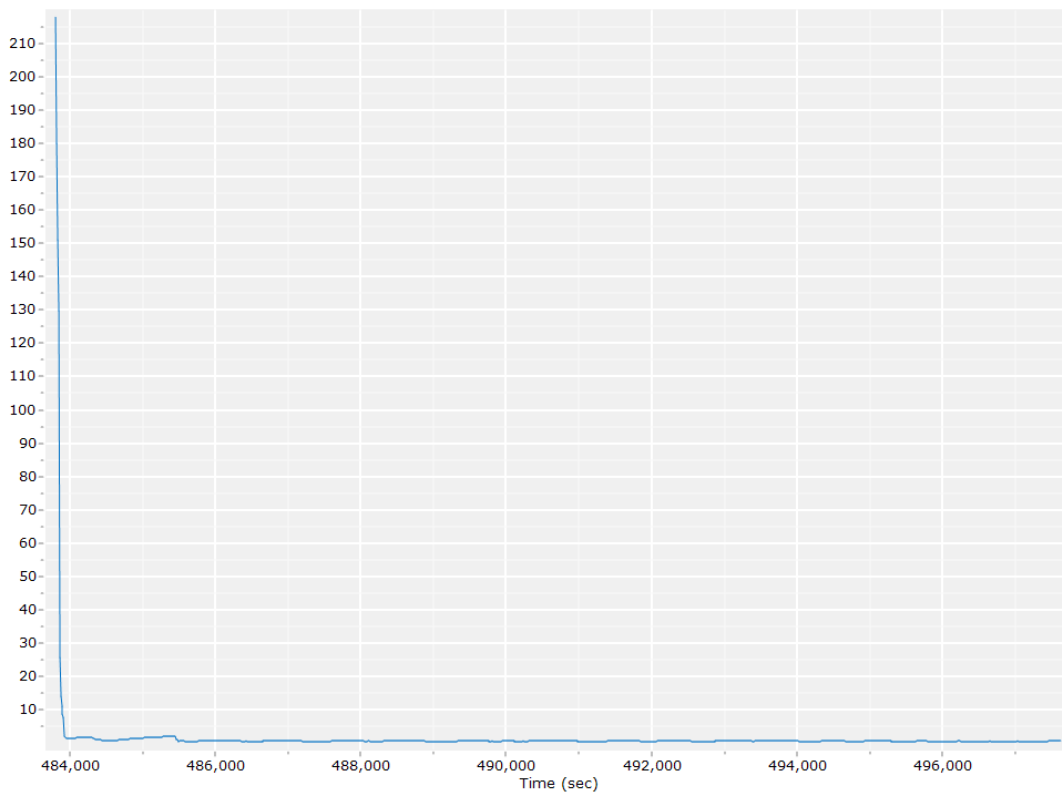
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

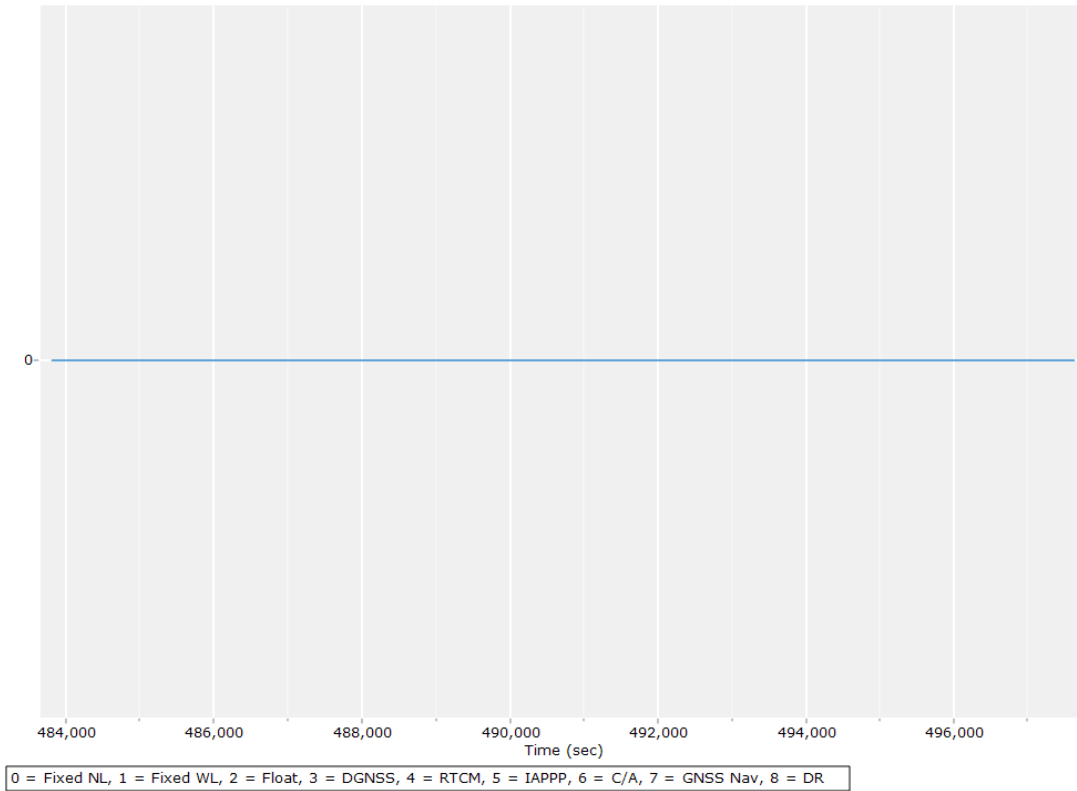


Heading Error RMS (arc-min)

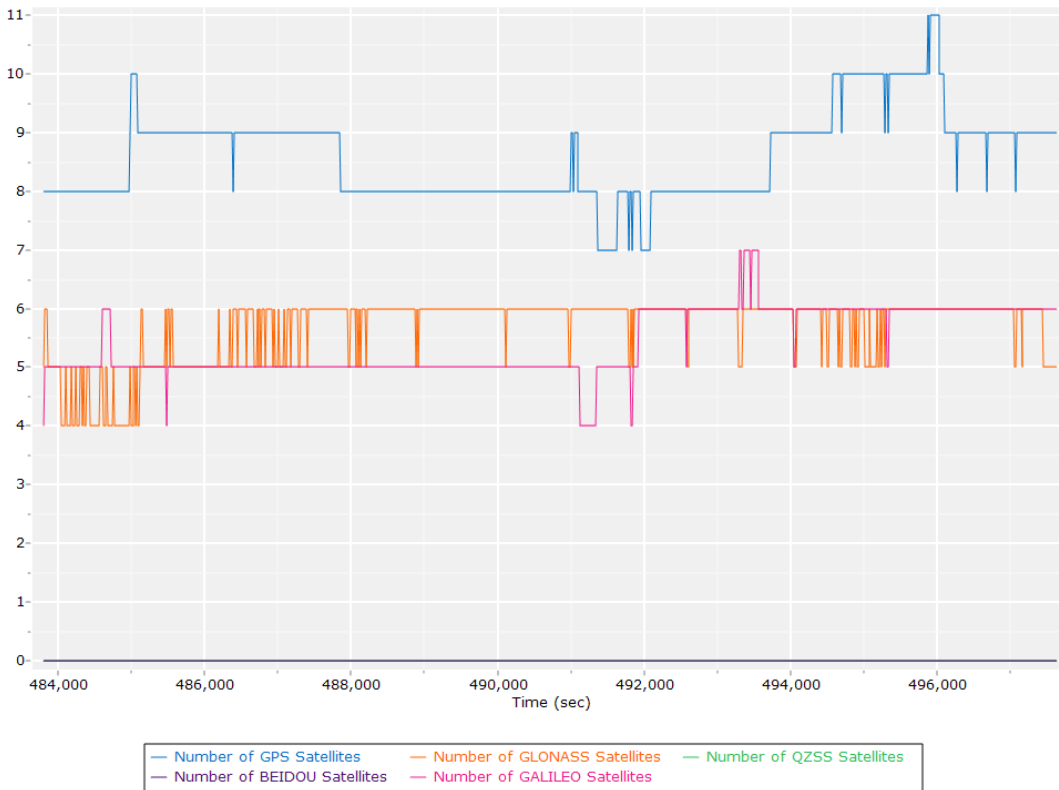


Forward Processed Solution Status

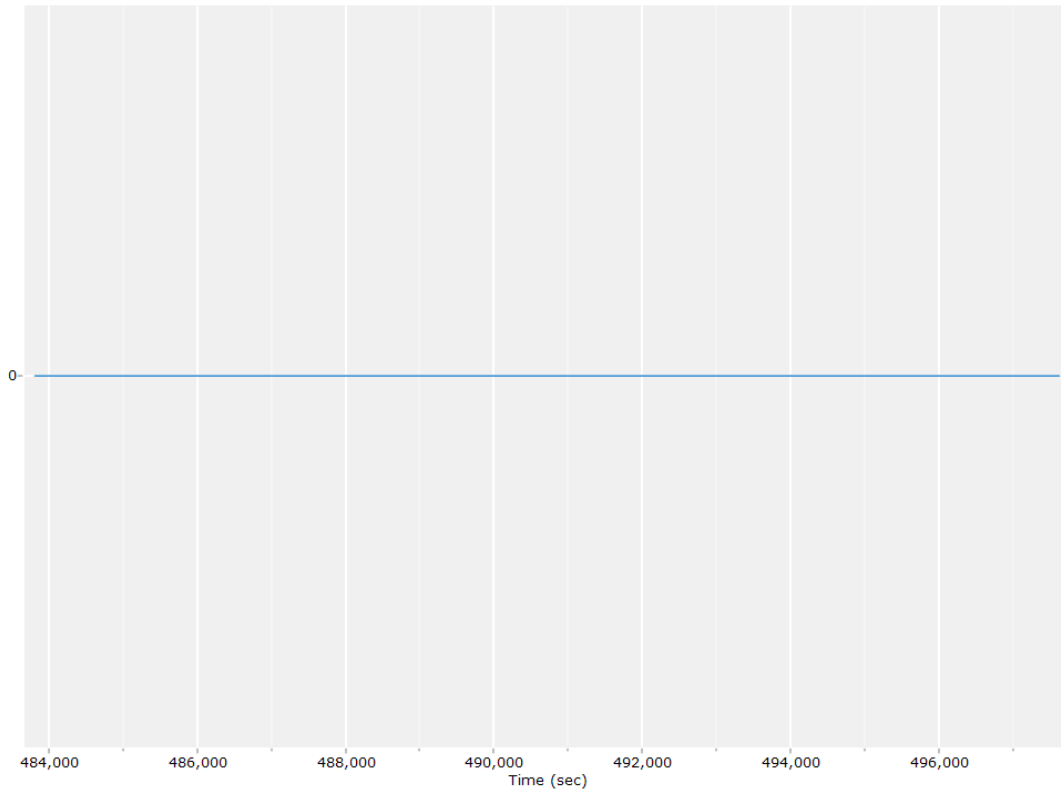
Processing Mode



Number of Satellites



Baseline Length



General Information

Mission Information

Project name	23022_Mohave_QL1_20230317_T2L2_pprtx
Processing date	2023-03-20 18:16:11
Mission date	2023-03-17 19:21:52
Mission duration	04:04:29.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey2.pos	POS Data

Input Files

File Name	File Type
Ephm0760.23g	GLONASS Broadcast Ephemeris
Ephm0760.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File
export_Mission 1.out	Custom Smoothed BET Export Output

Rover Data Summary

First raw data file	survey2.pos		
Last raw data file	survey2.pos		
Start GPS week	2253		
Start time	501711.417 (03/17/2023 19:21:51)		
End time	516570.006 (03/17/2023 23:29:30)		
Start of fine alignment	501881.828 (03/17/2023 19:24:41)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

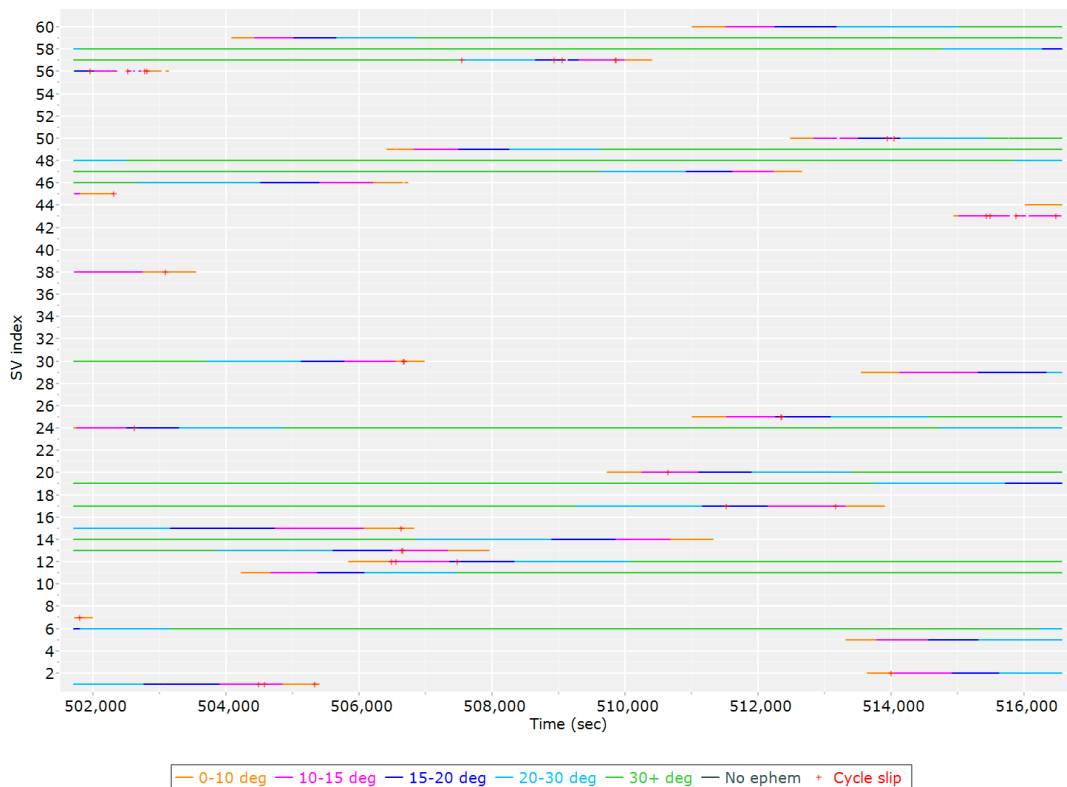
Rover Data QC

Raw IMU Import QC Summary

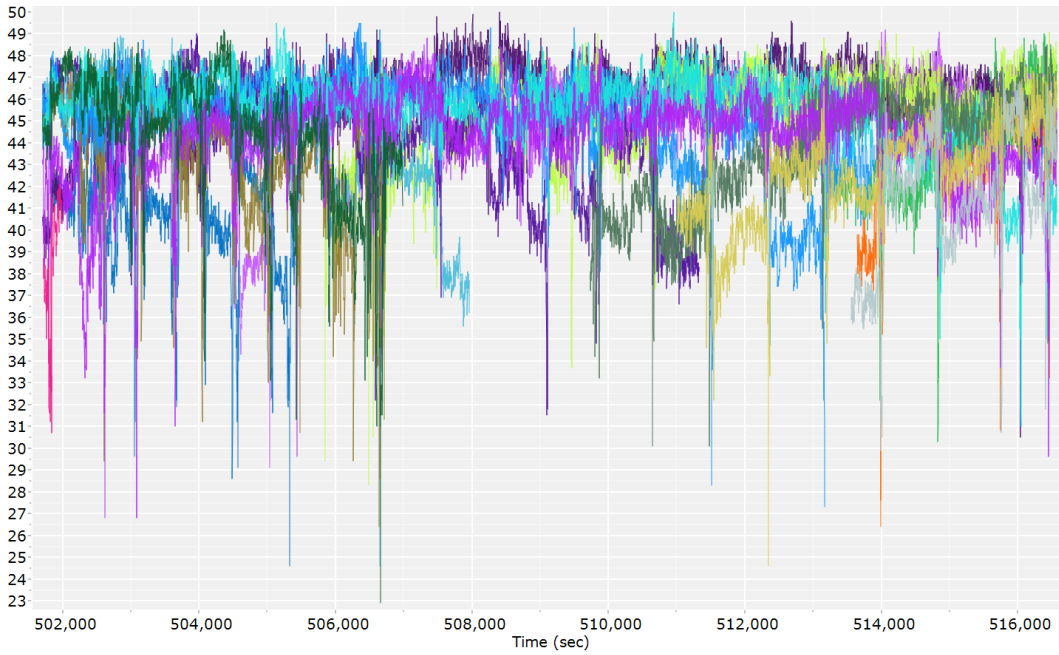
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	2971105
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

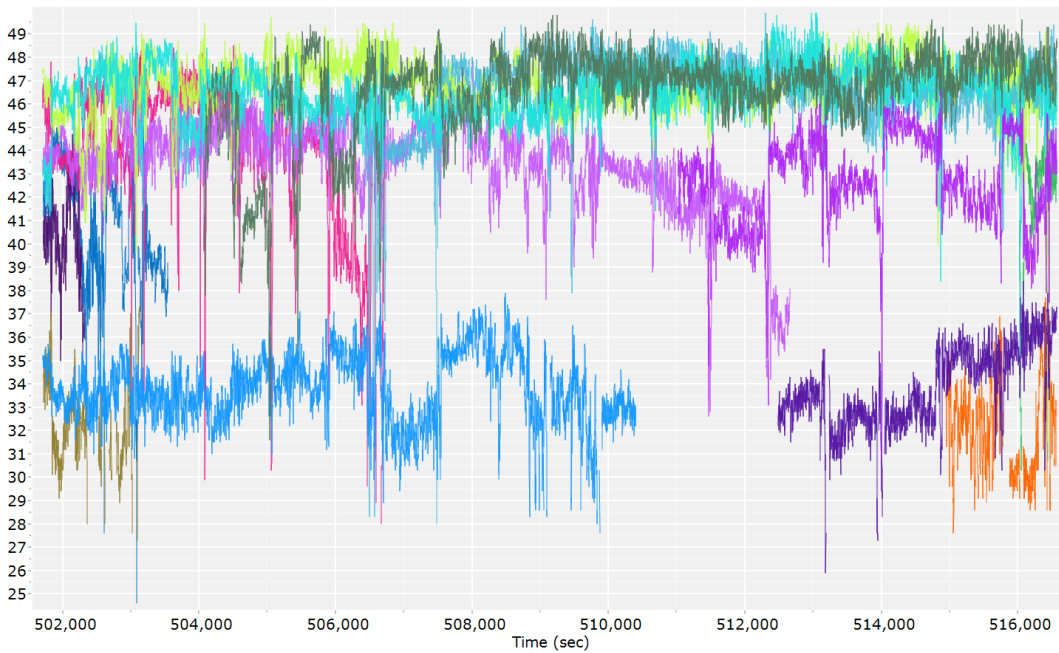


GPS L1 SNR



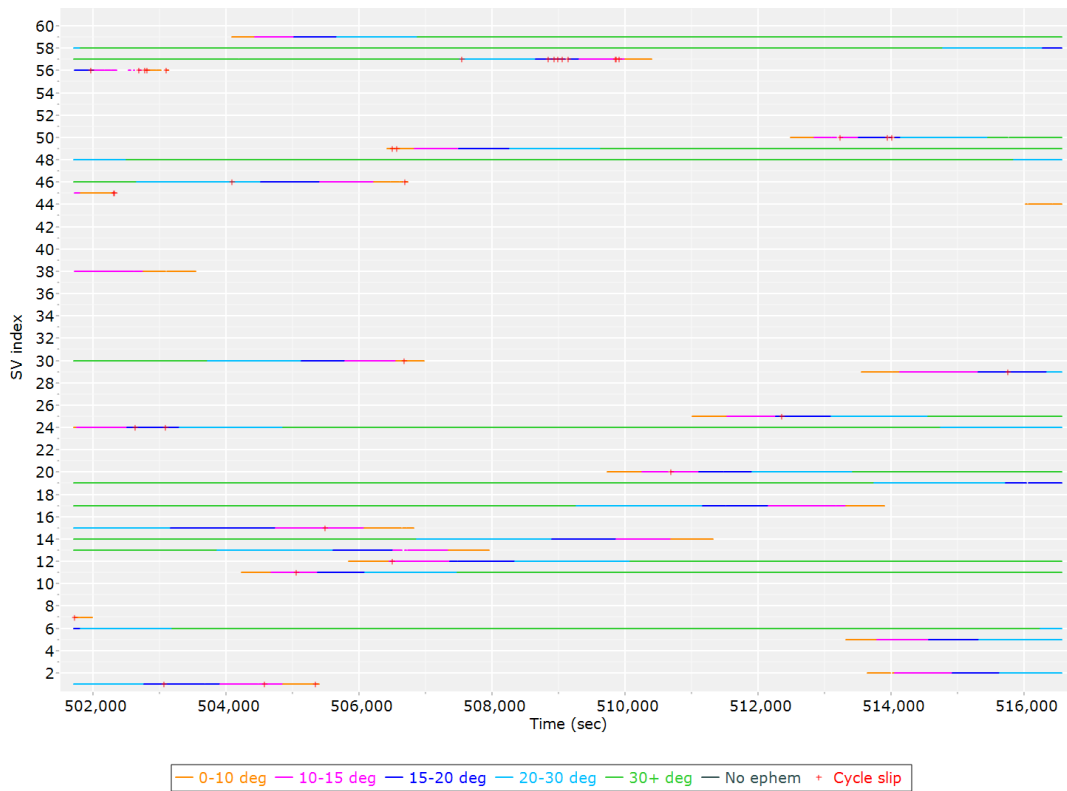
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 01 L1 SNR (dB/Hz) | GPS PRN 02 L1 SNR (dB/Hz) | GPS PRN 05 L1 SNR (dB/Hz) | GPS PRN 06 L1 SNR (dB/Hz) |
| GPS PRN 07 L1 SNR (dB/Hz) | GPS PRN 11 L1 SNR (dB/Hz) | GPS PRN 12 L1 SNR (dB/Hz) | GPS PRN 13 L1 SNR (dB/Hz) |
| GPS PRN 14 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) | GPS PRN 17 L1 SNR (dB/Hz) | GPS PRN 19 L1 SNR (dB/Hz) |
| GPS PRN 20 L1 SNR (dB/Hz) | GPS PRN 24 L1 SNR (dB/Hz) | GPS PRN 25 L1 SNR (dB/Hz) | GPS PRN 29 L1 SNR (dB/Hz) |
| GPS PRN 30 L1 SNR (dB/Hz) | | | |

GLONASS L1 SNR

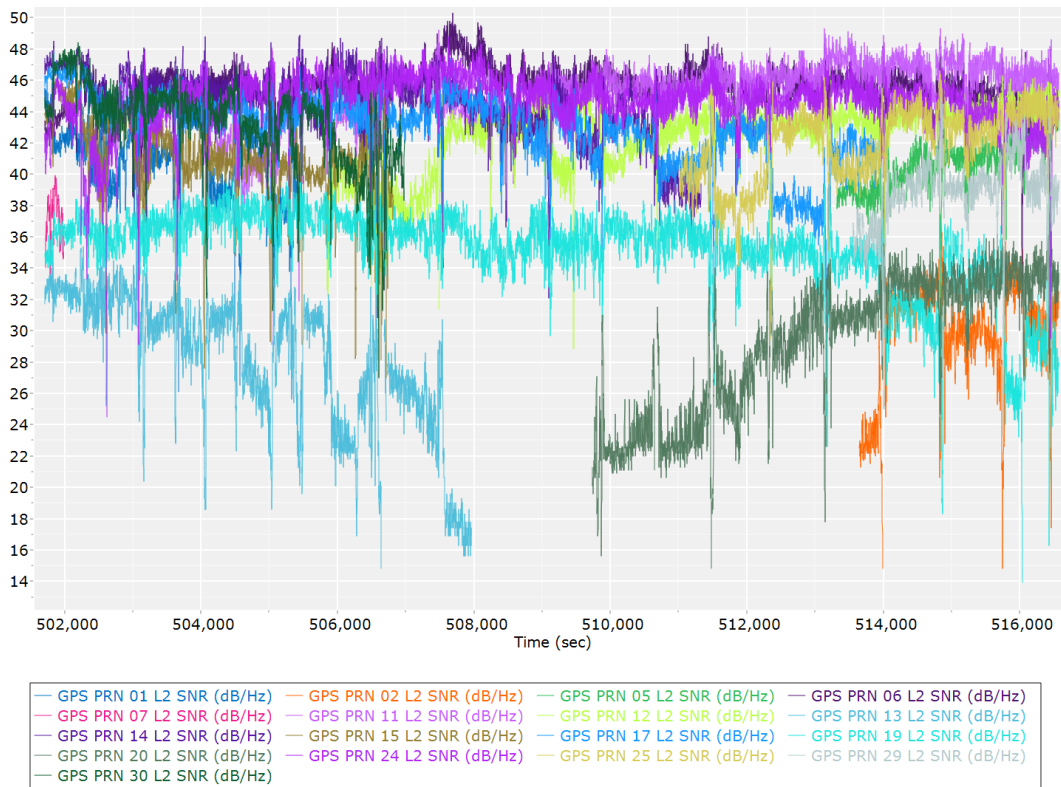


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 01 L1 SNR (dB/Hz) | GLONASS 06 L1 SNR (dB/Hz) | GLONASS 07 L1 SNR (dB/Hz) |
| GLONASS 08 L1 SNR (dB/Hz) | GLONASS 09 L1 SNR (dB/Hz) | GLONASS 10 L1 SNR (dB/Hz) |
| GLONASS 11 L1 SNR (dB/Hz) | GLONASS 12 L1 SNR (dB/Hz) | GLONASS 13 L1 SNR (dB/Hz) |
| GLONASS 19 L1 SNR (dB/Hz) | GLONASS 20 L1 SNR (dB/Hz) | GLONASS 21 L1 SNR (dB/Hz) |
| GLONASS 22 L1 SNR (dB/Hz) | GLONASS 23 L1 SNR (dB/Hz) | |

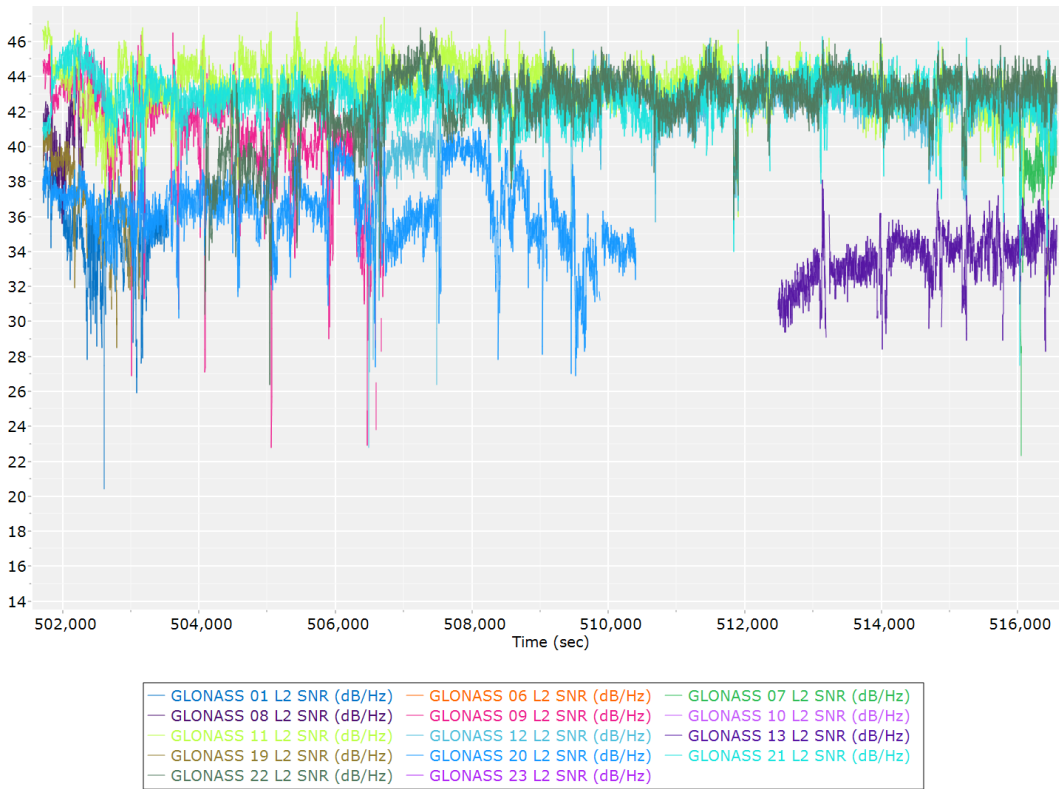
GPS/GLONASS L2 Satellite Lock/Elevation



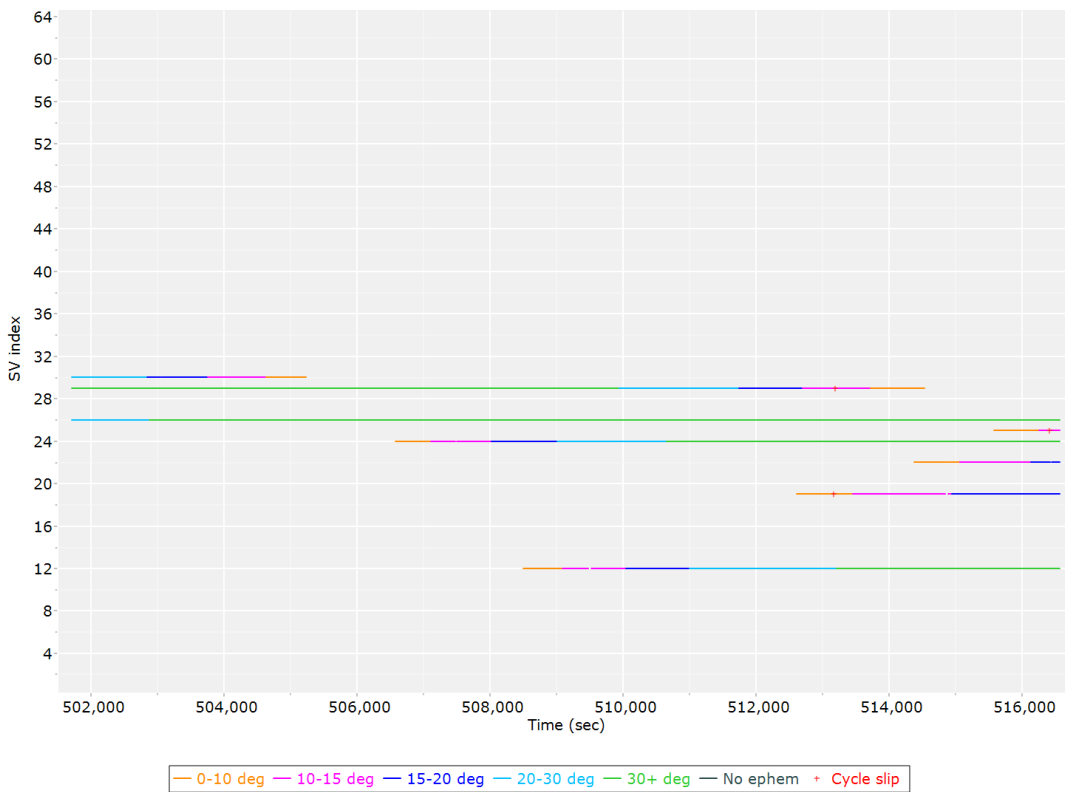
GPS L2 SNR



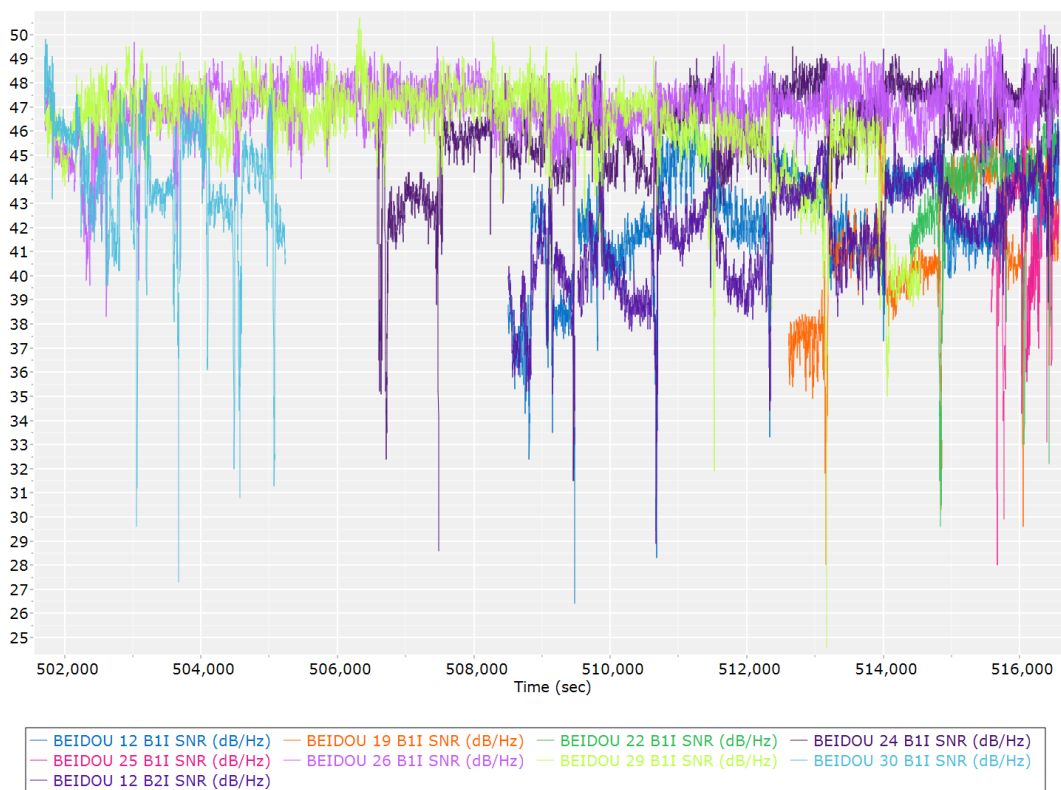
GLONASS L2 SNR



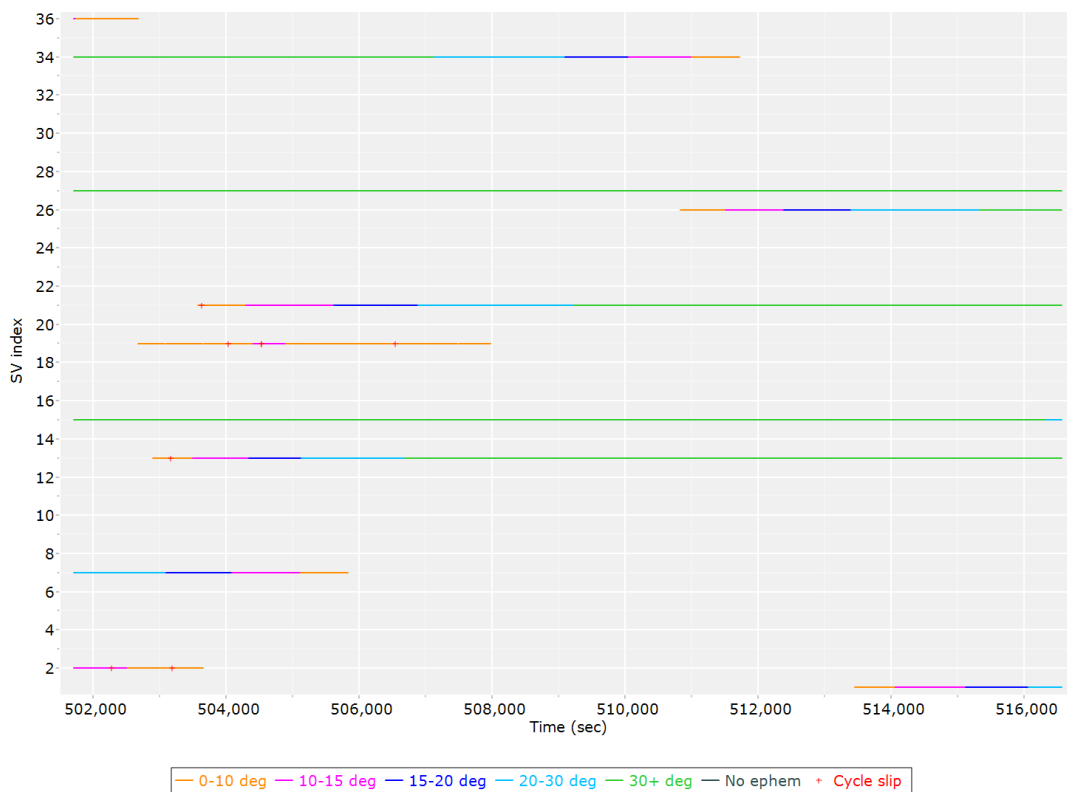
BEIDOU Satellite Lock/Elevation



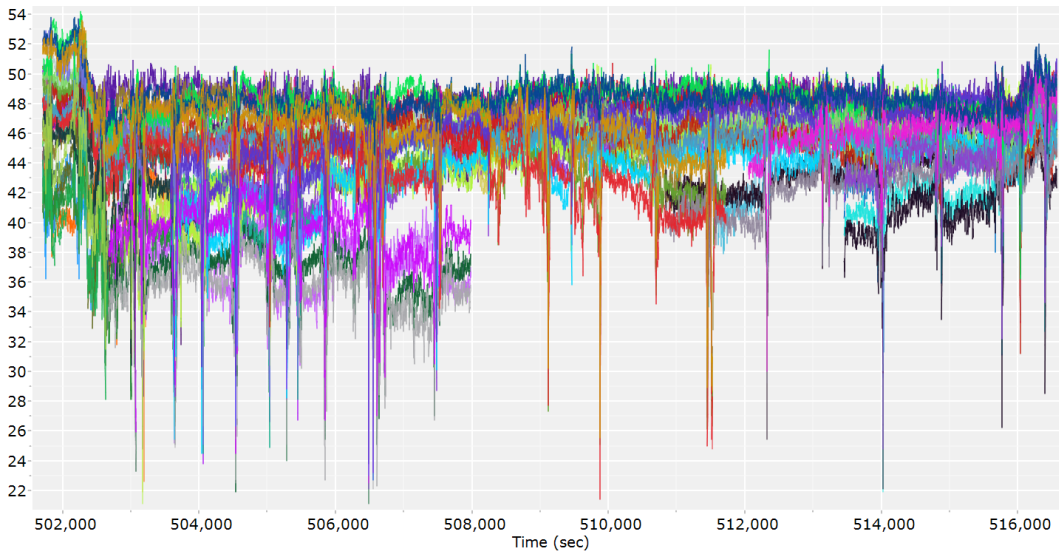
BEIDOU SNR



GALILEO Satellite Lock/Elevation



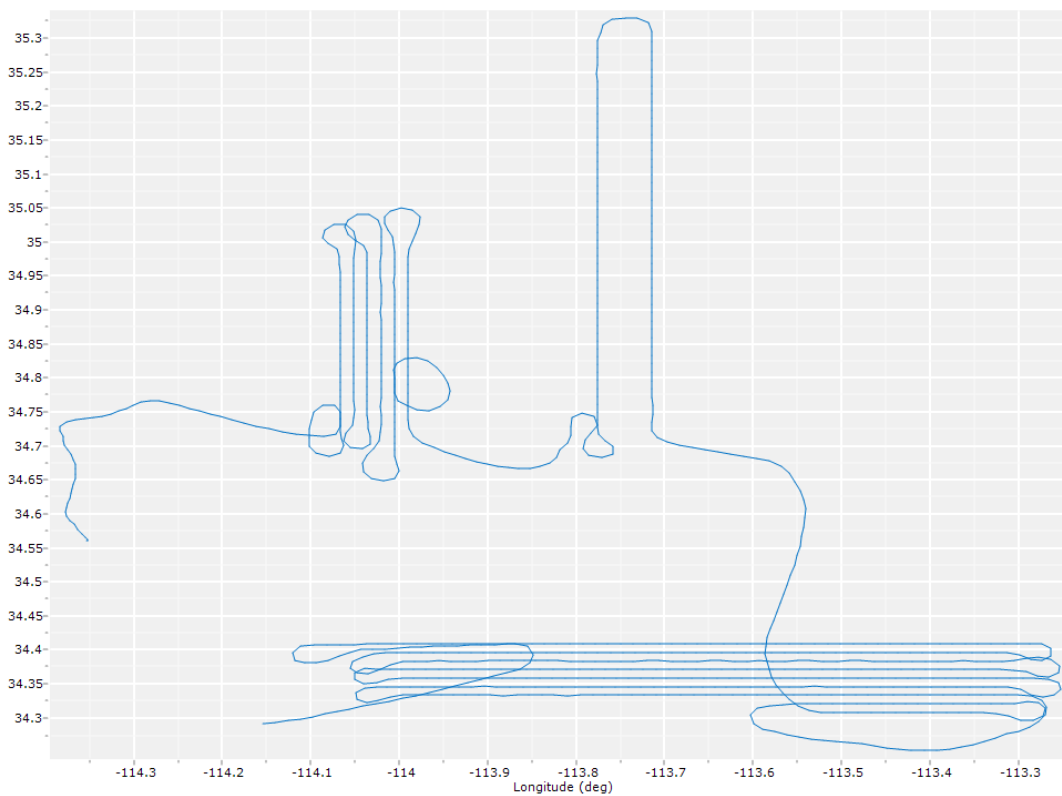
GALILEO SNR



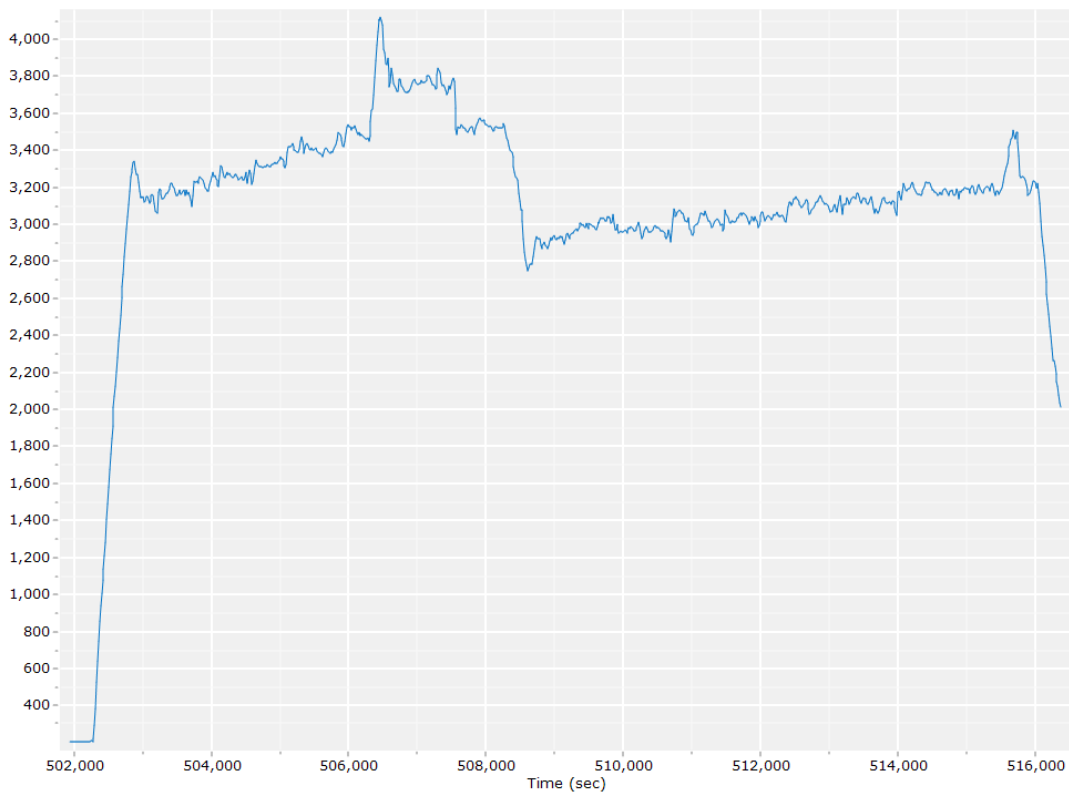
— GALILEO 01 E1CBOC SNR (dB/Hz)	— GALILEO 02 E1CBOC SNR (dB/Hz)	— GALILEO 07 E1CBOC SNR (dB/Hz)
— GALILEO 13 E1CBOC SNR (dB/Hz)	— GALILEO 15 E1CBOC SNR (dB/Hz)	— GALILEO 19 E1CBOC SNR (dB/Hz)
— GALILEO 21 E1CBOC SNR (dB/Hz)	— GALILEO 26 E1CBOC SNR (dB/Hz)	— GALILEO 27 E1CBOC SNR (dB/Hz)
— GALILEO 34 E1CBOC SNR (dB/Hz)	— GALILEO 36 E1CBOC SNR (dB/Hz)	— GALILEO 01 E5A SNR (dB/Hz)
— GALILEO 02 E5A SNR (dB/Hz)	— GALILEO 07 E5A SNR (dB/Hz)	— GALILEO 13 E5A SNR (dB/Hz)
— GALILEO 15 E5A SNR (dB/Hz)	— GALILEO 19 E5A SNR (dB/Hz)	— GALILEO 21 E5A SNR (dB/Hz)
— GALILEO 26 E5A SNR (dB/Hz)	— GALILEO 27 E5A SNR (dB/Hz)	— GALILEO 34 E5A SNR (dB/Hz)
— GALILEO 36 E5A SNR (dB/Hz)	— GALILEO 01 E5B SNR (dB/Hz)	— GALILEO 02 E5B SNR (dB/Hz)
— GALILEO 07 E5B SNR (dB/Hz)	— GALILEO 13 E5B SNR (dB/Hz)	— GALILEO 15 E5B SNR (dB/Hz)
— GALILEO 19 E5B SNR (dB/Hz)	— GALILEO 21 E5B SNR (dB/Hz)	— GALILEO 26 E5B SNR (dB/Hz)

Smoothed Trajectory Information

Top View



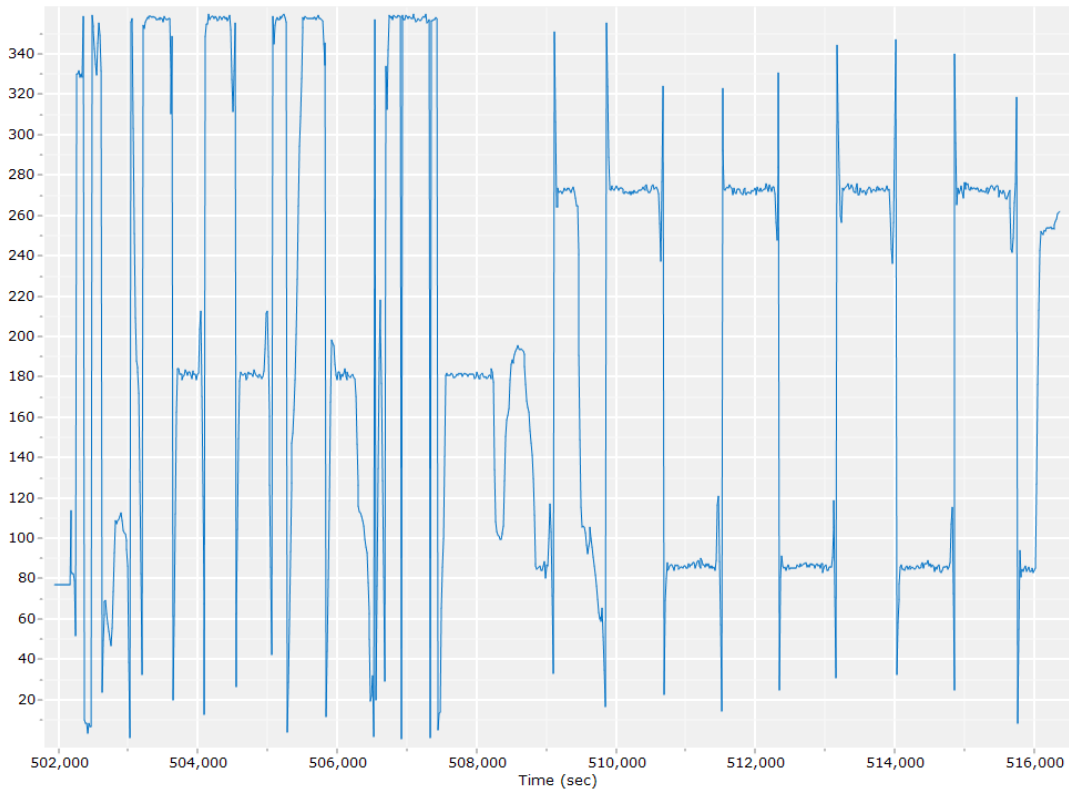
Altitude



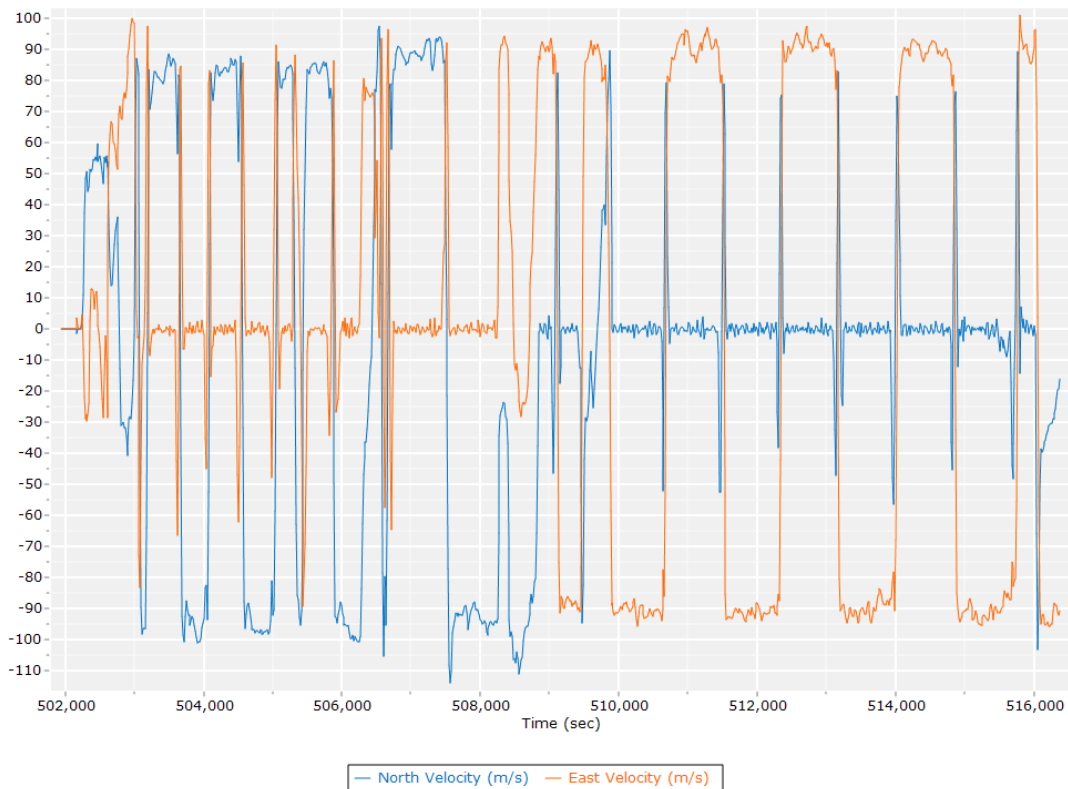
Roll/Pitch



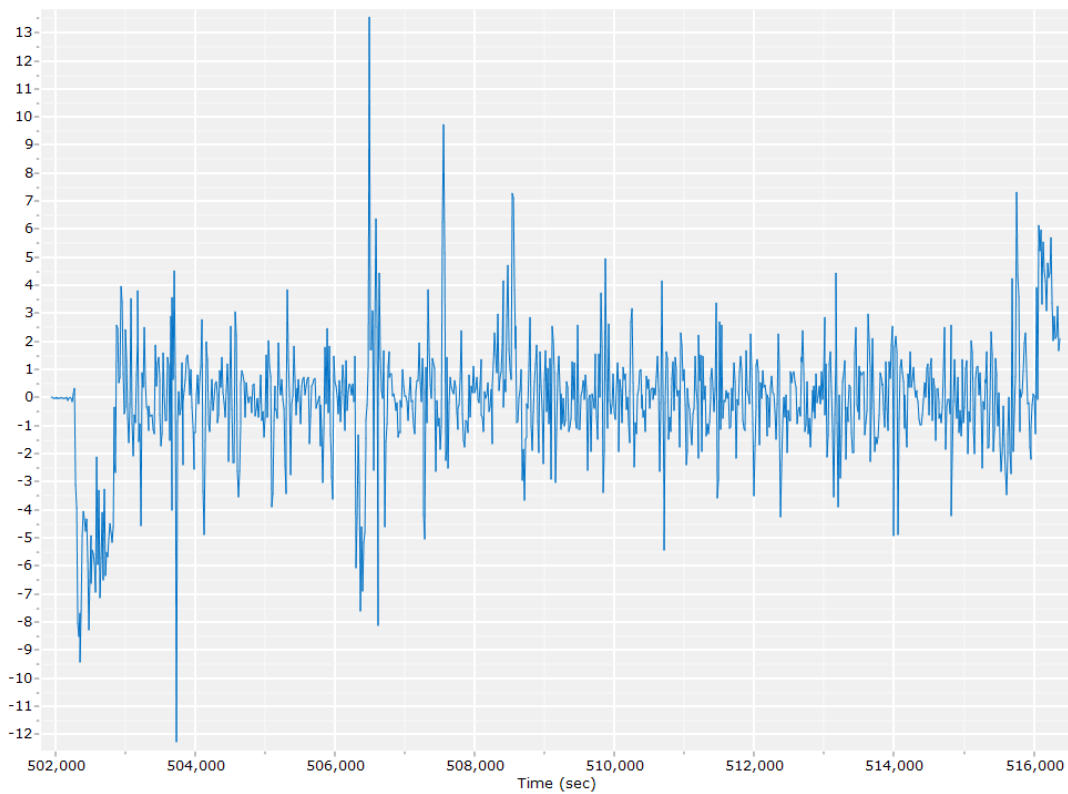
Heading



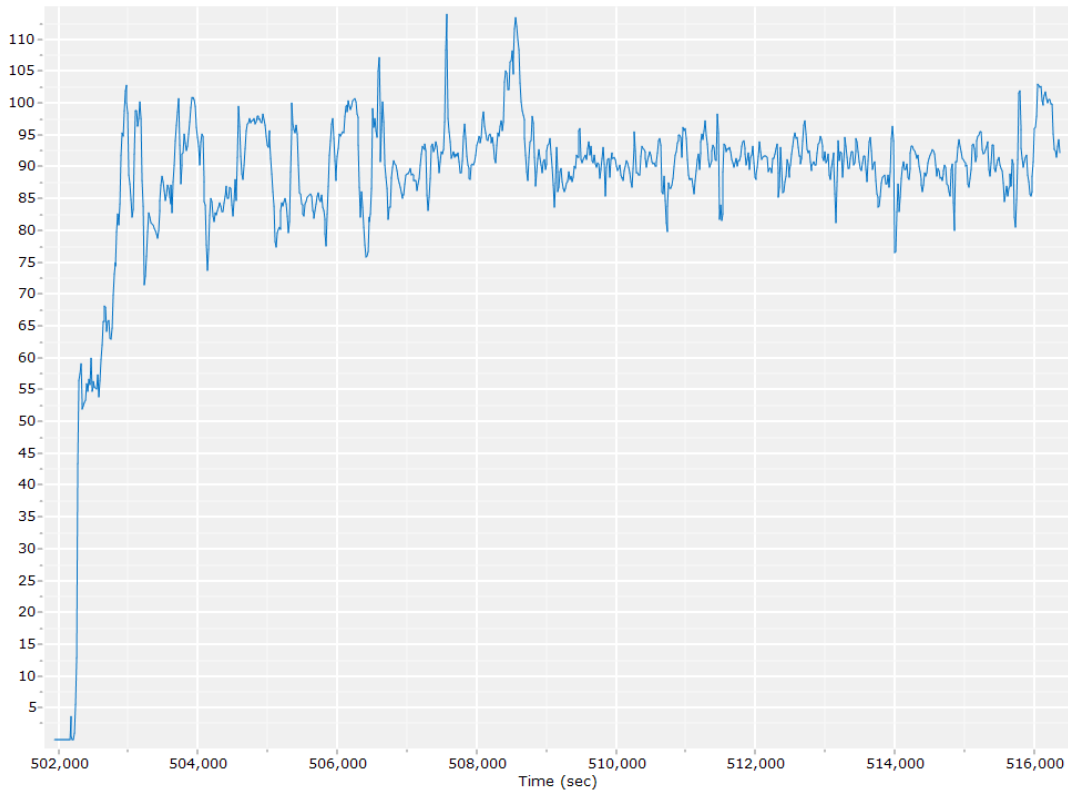
North/East Velocity



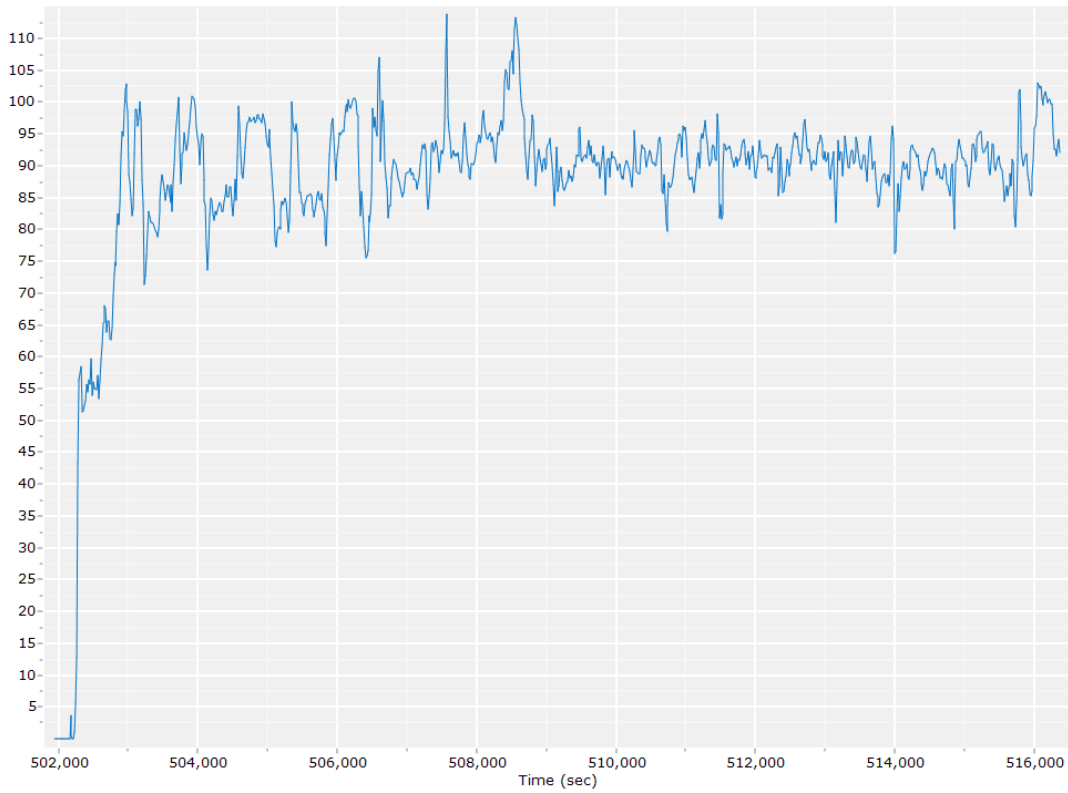
Down Velocity



Total Speed



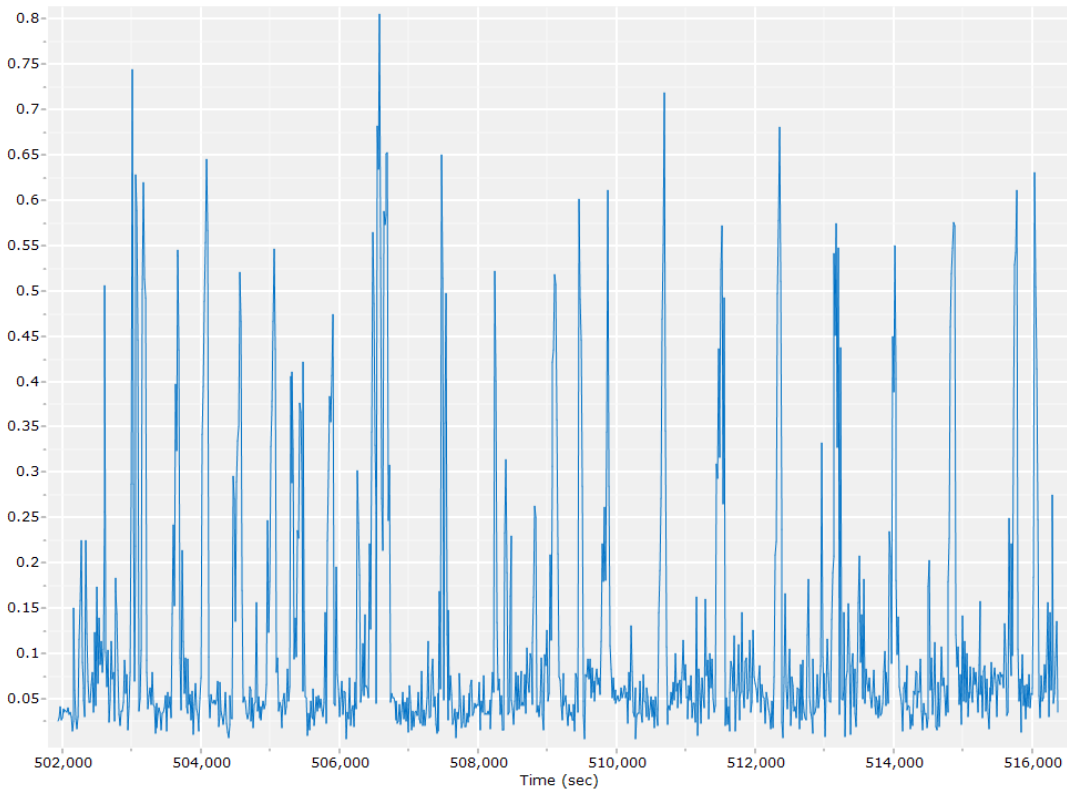
Ground Speed



Body Acceleration



Total Body Acceleration

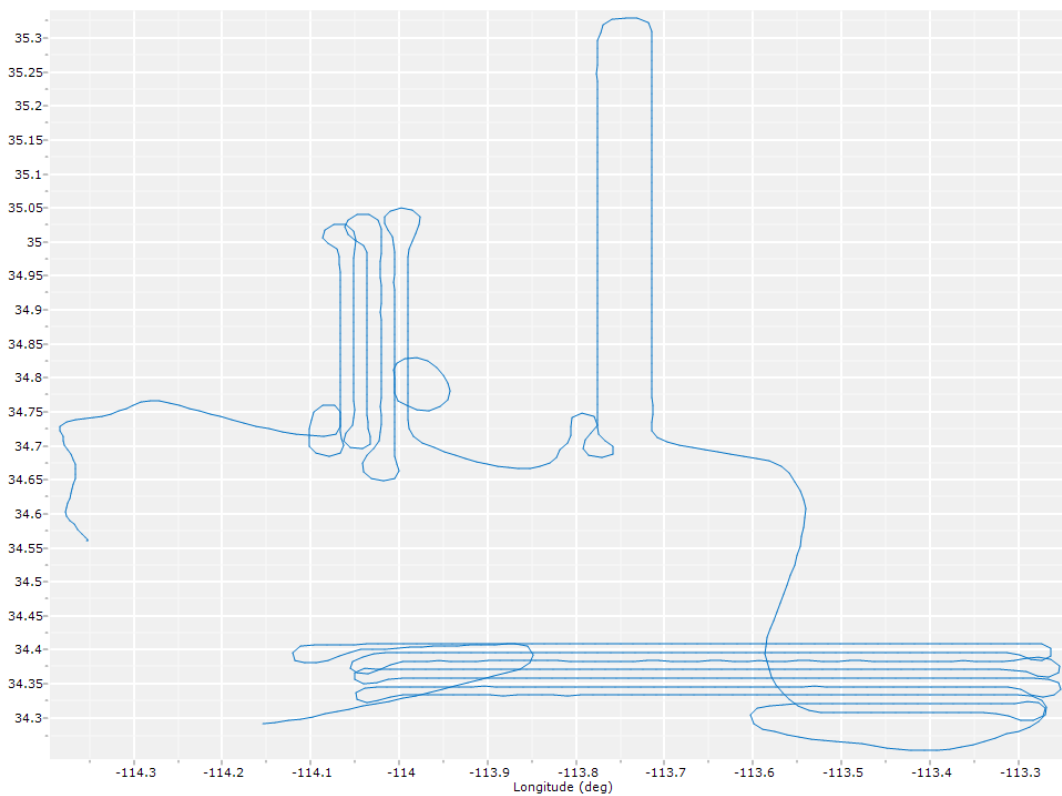


Body Angular Rate

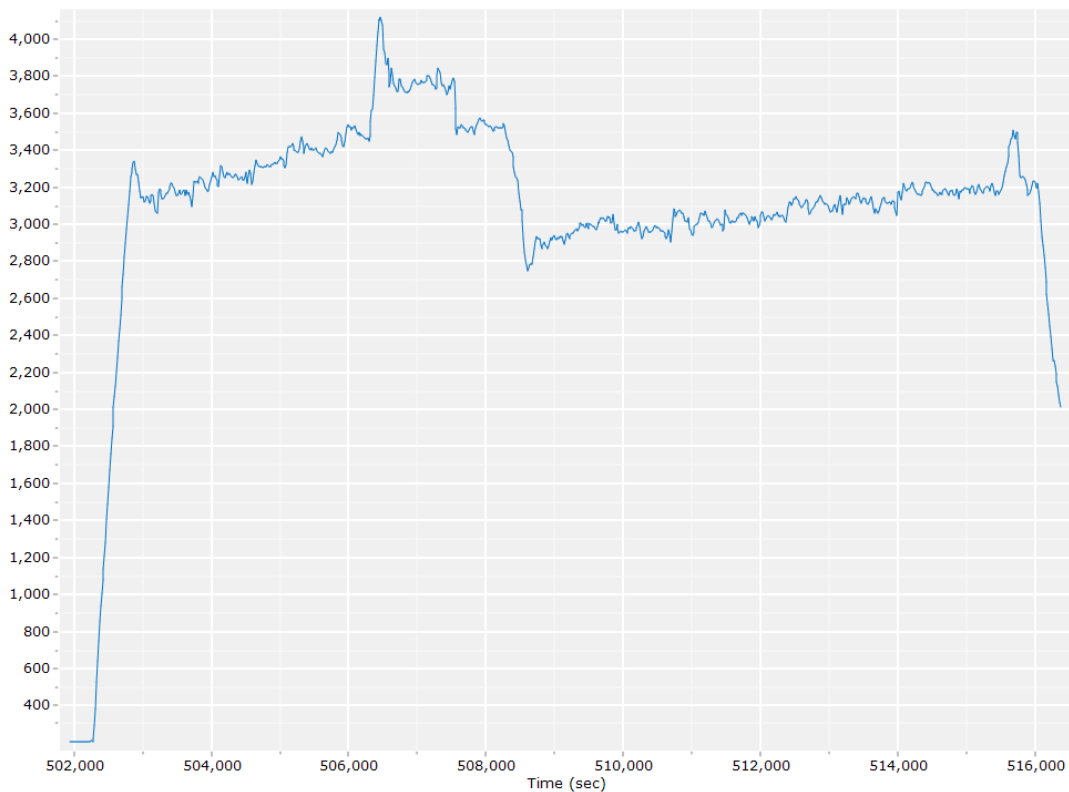


Forward Processed Trajectory Information

Top View



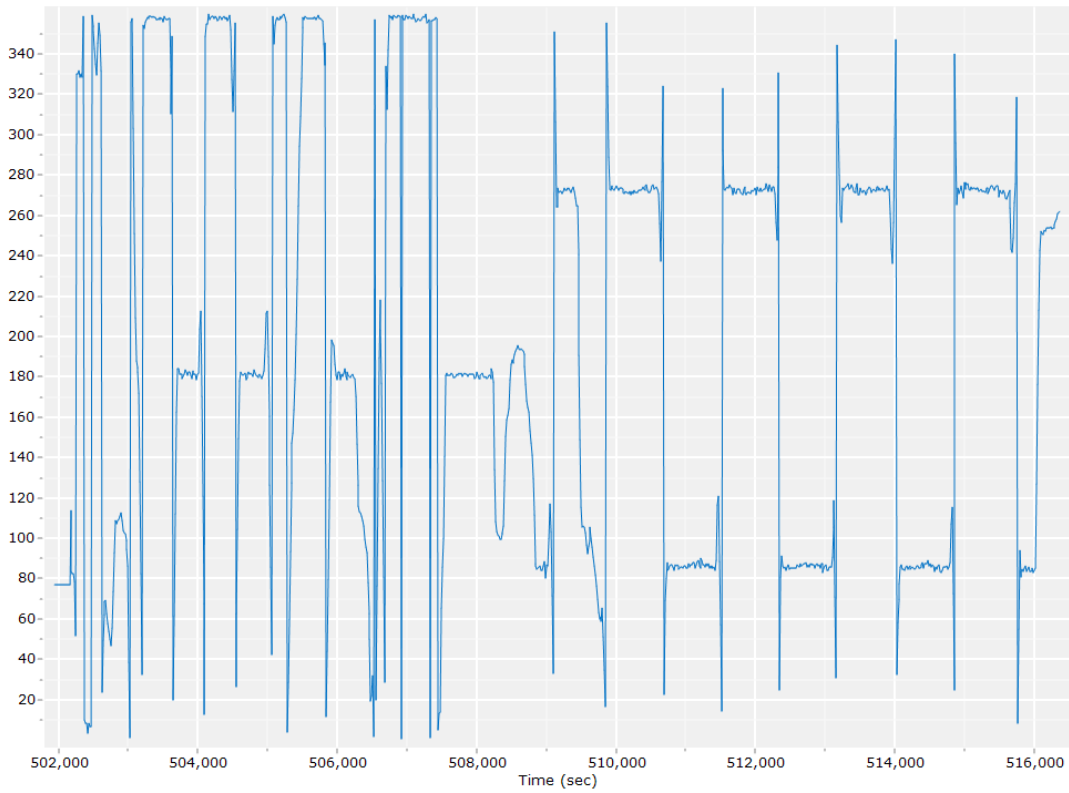
Altitude



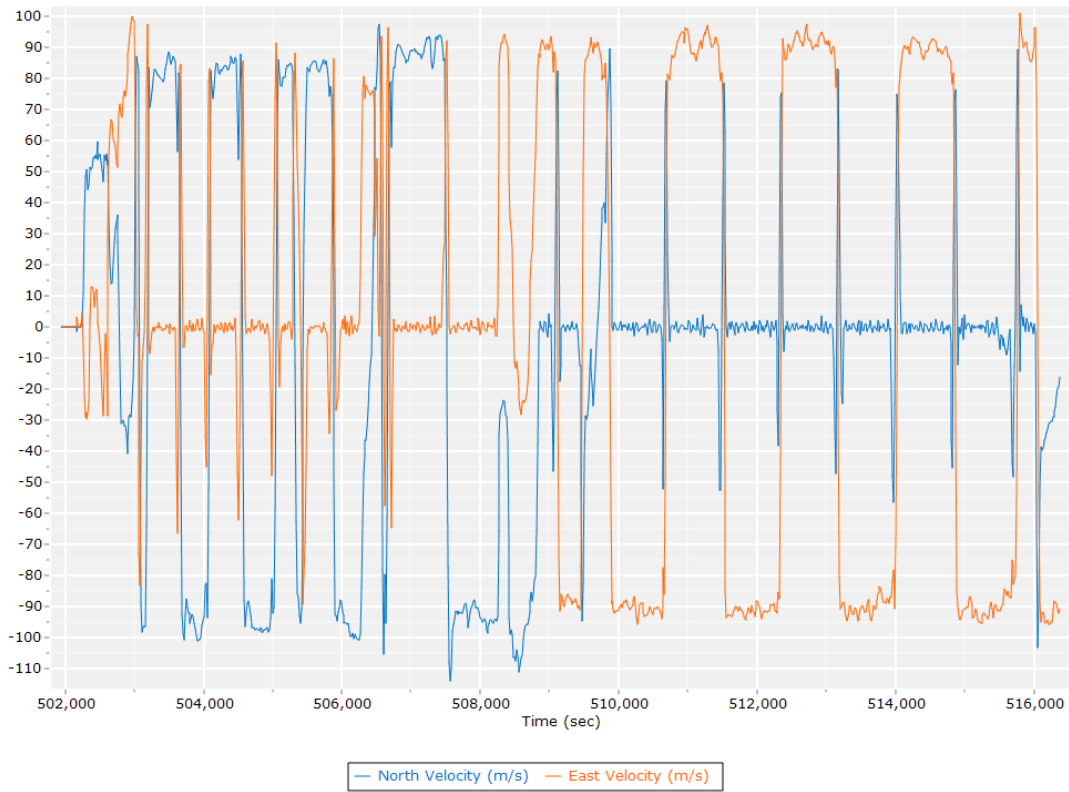
Roll/Pitch



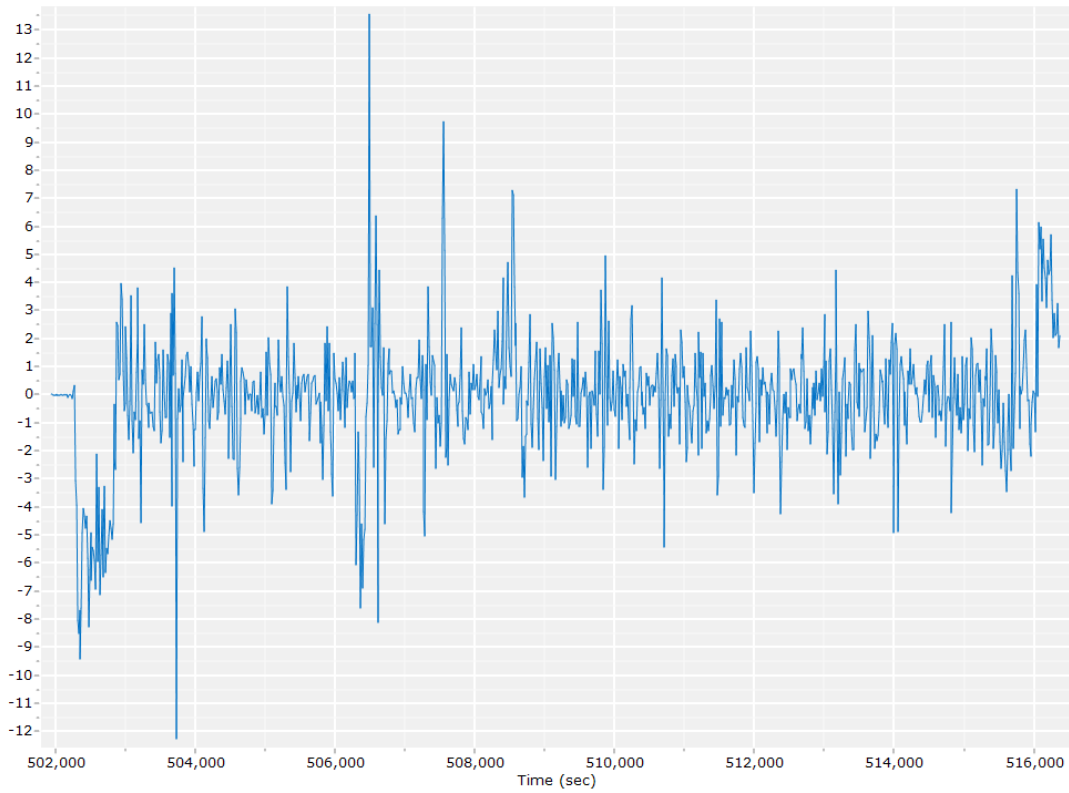
Heading



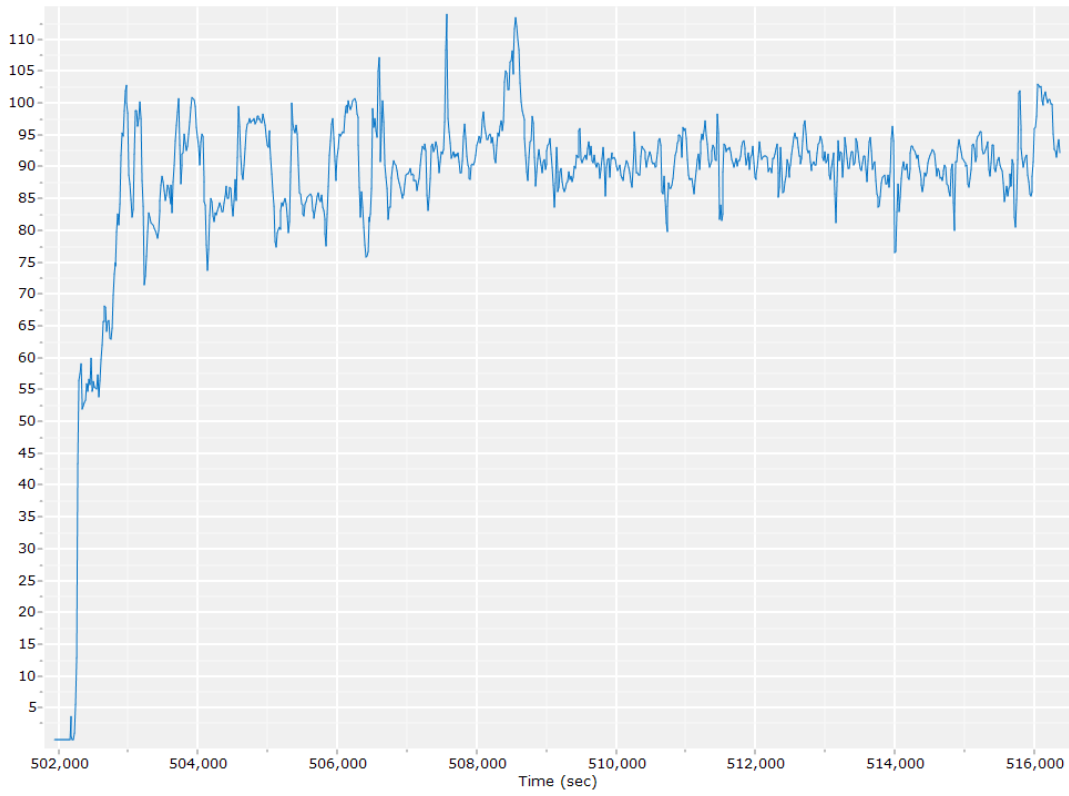
North/East Velocity



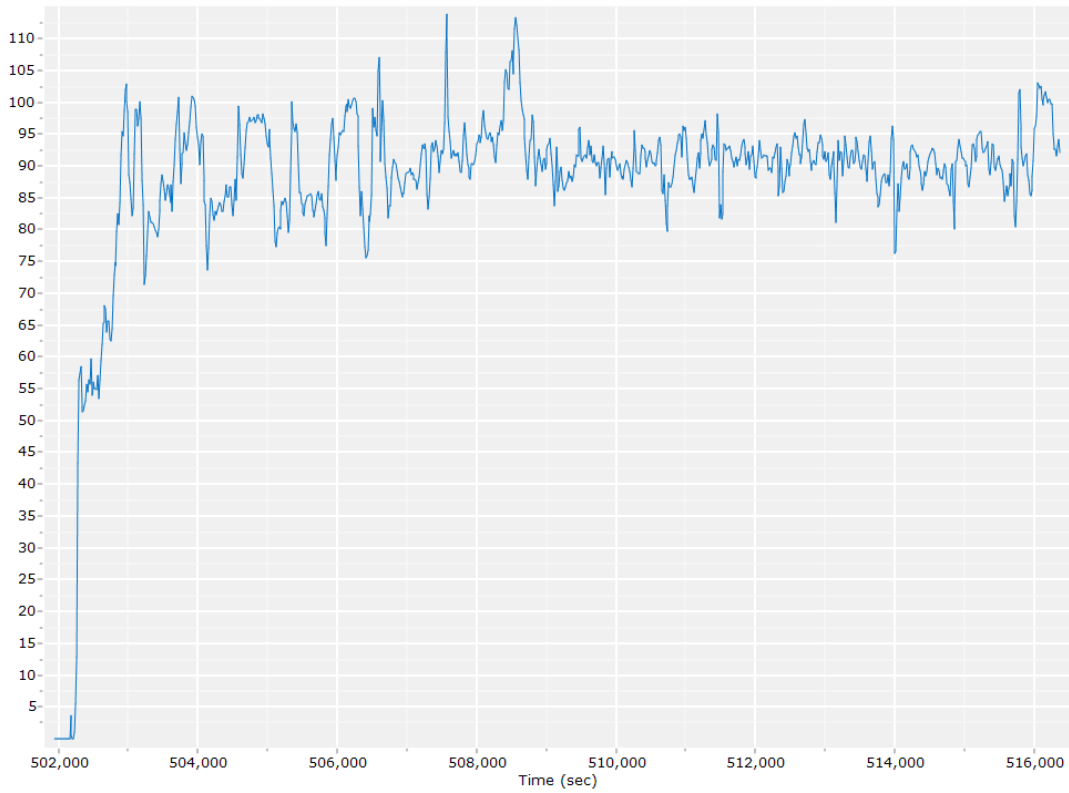
Down Velocity



Total Speed



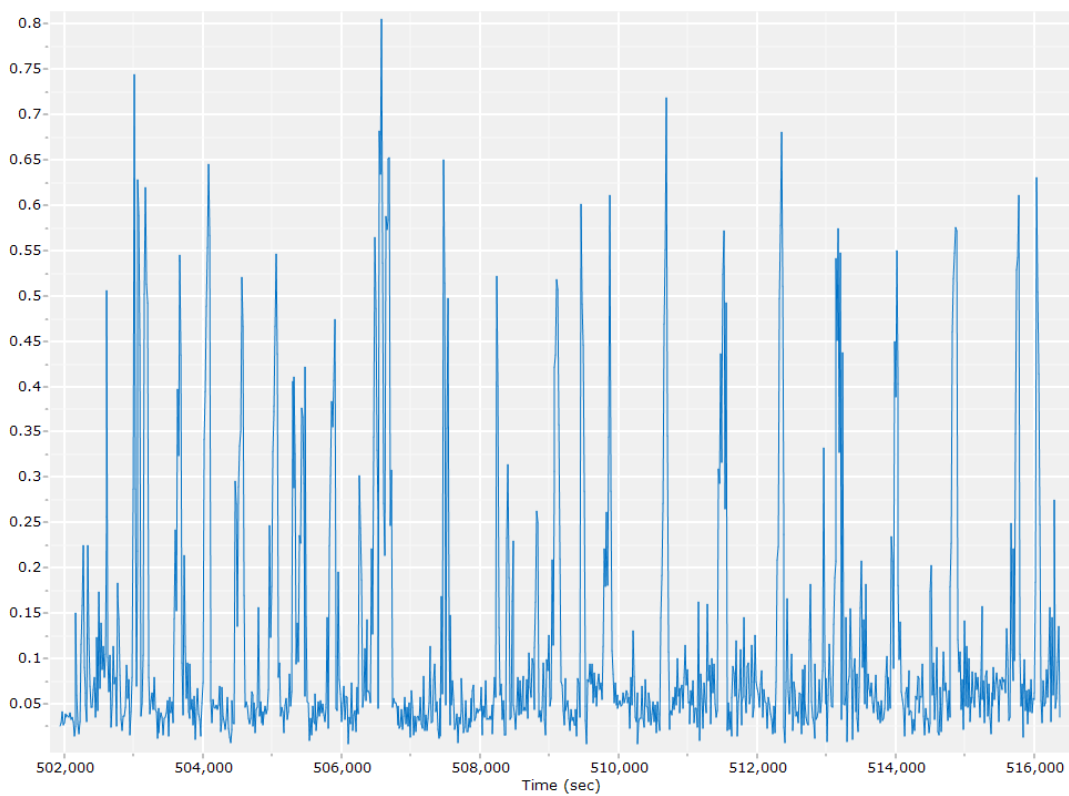
Ground Speed



Body Acceleration



Total Body Acceleration



Body Angular Rate



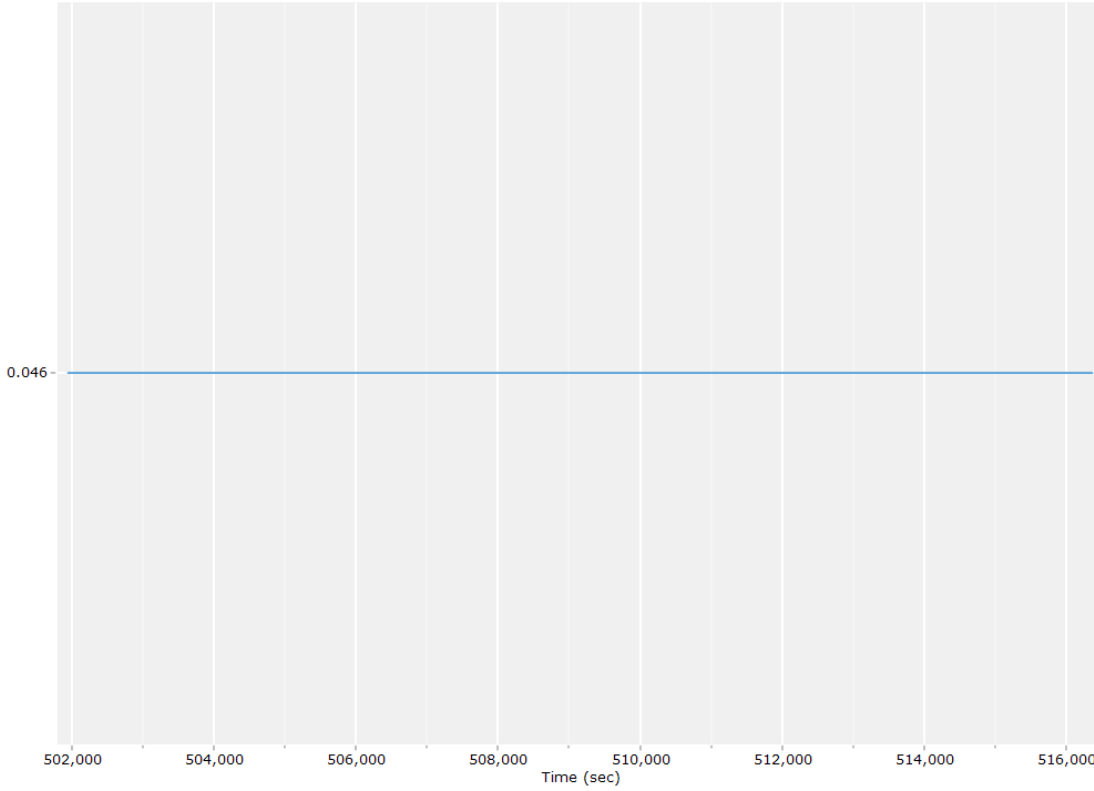
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	501712.000 (03/17/2023 19:21:52)		
Processing end time	516381.000 (03/17/2023 23:26:21)		
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)	0.046	-0.153	-0.934
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

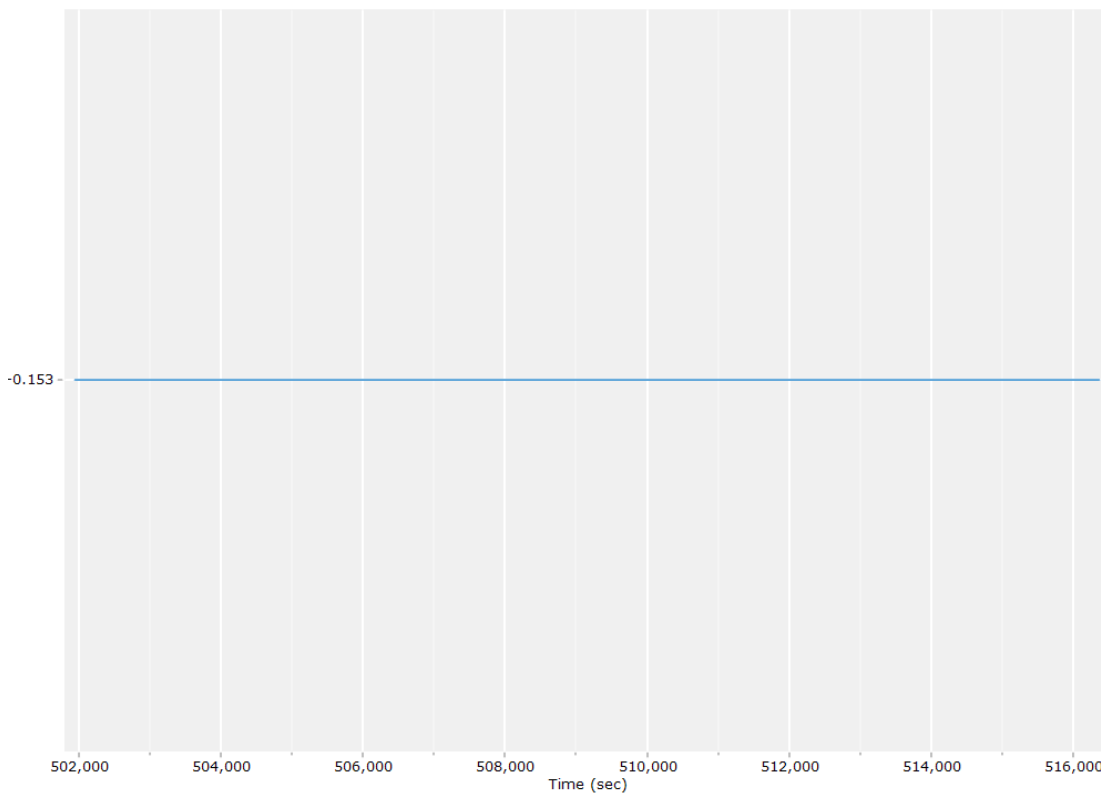
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

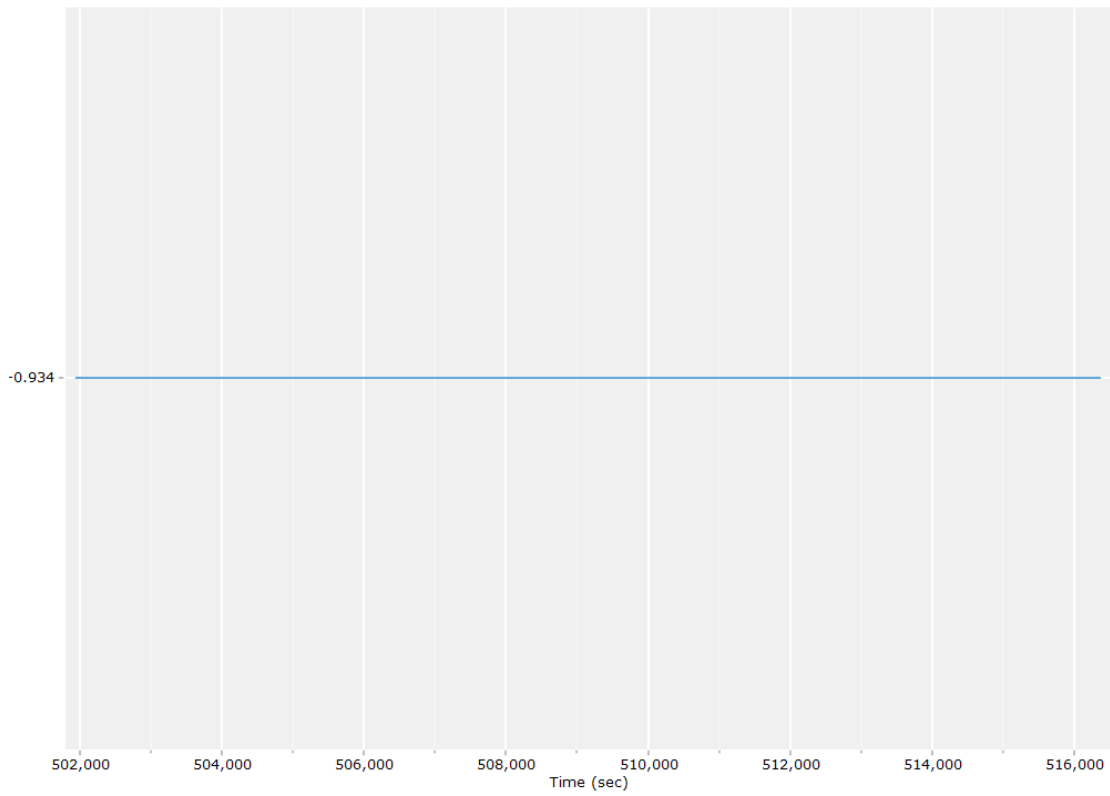
X Reference-Primary GNSS Lever Arm (m)



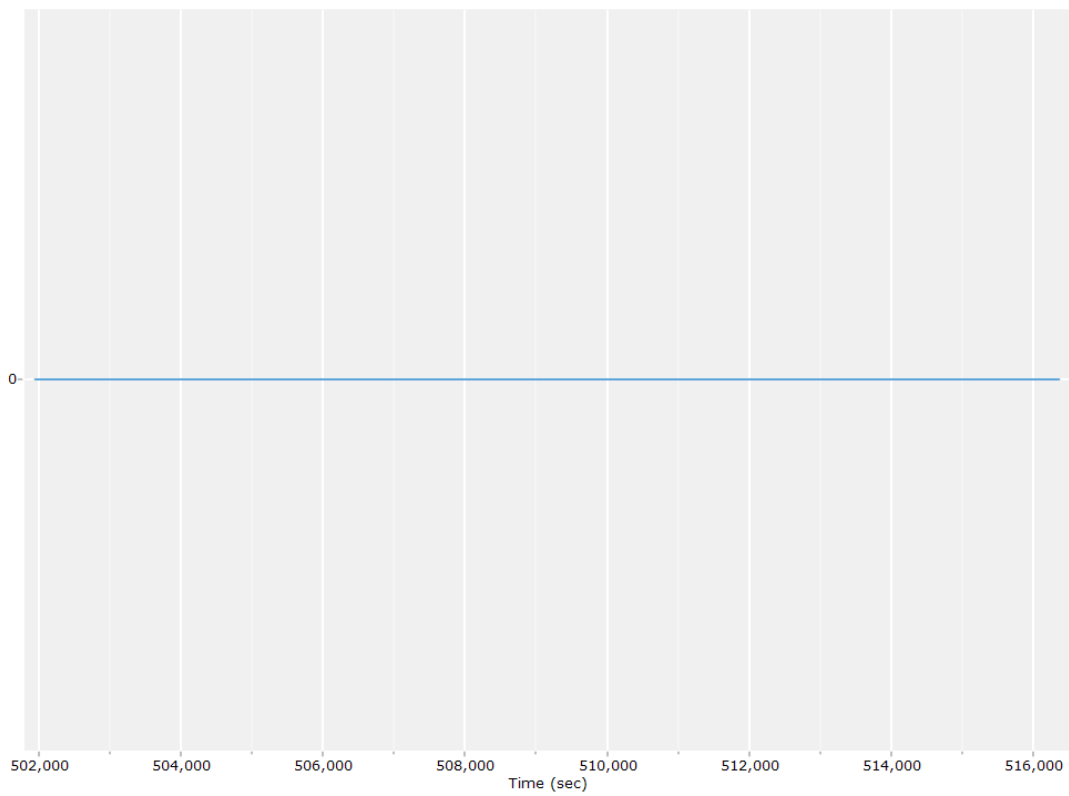
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



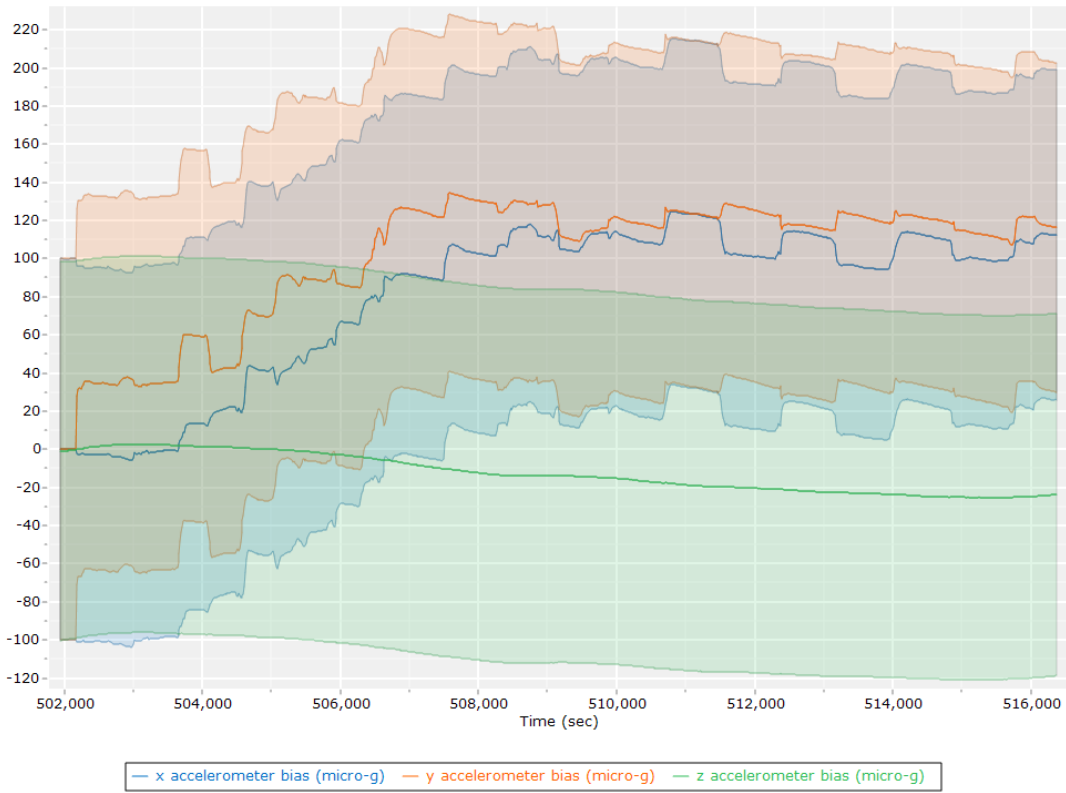
Reference-Primary GNSS Lever Arm Figure of Merit



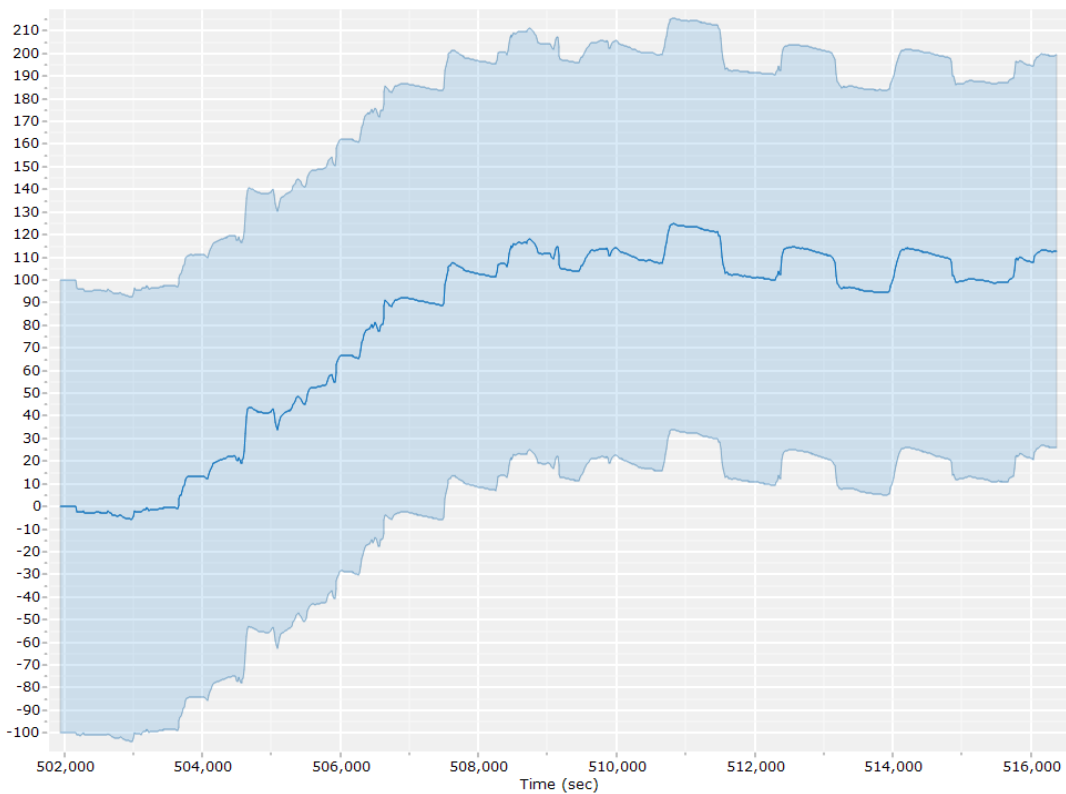
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

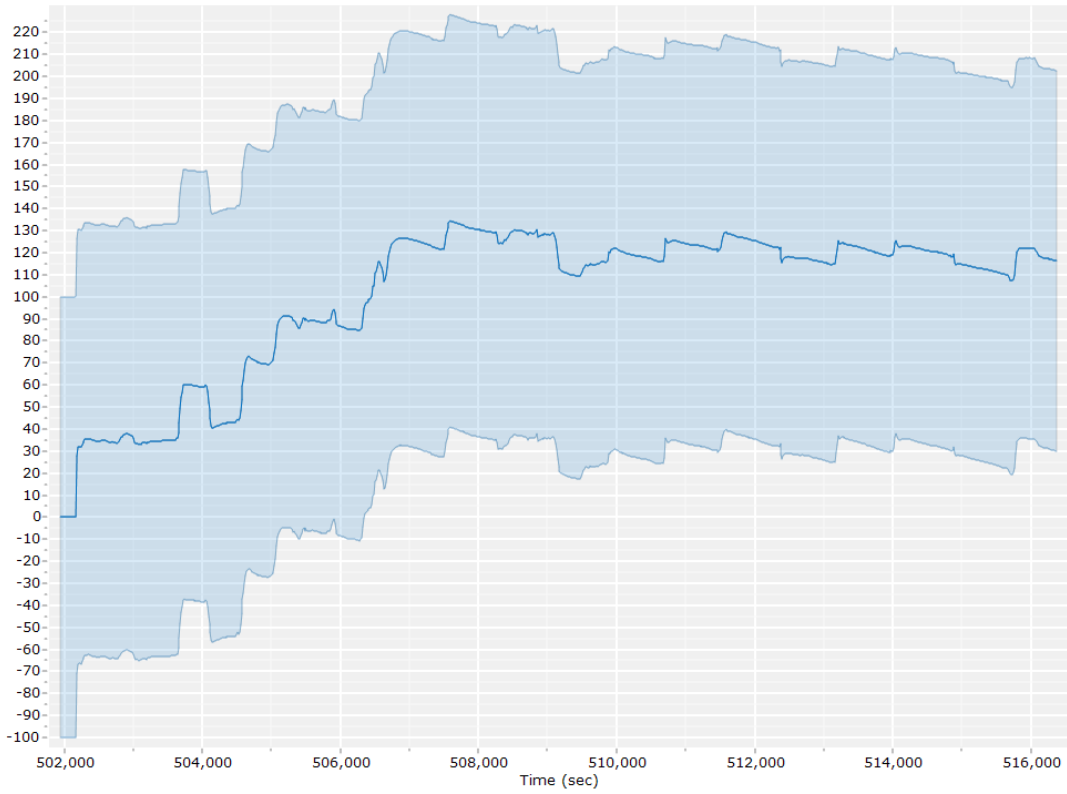
Accelerometer Bias (micro-g)



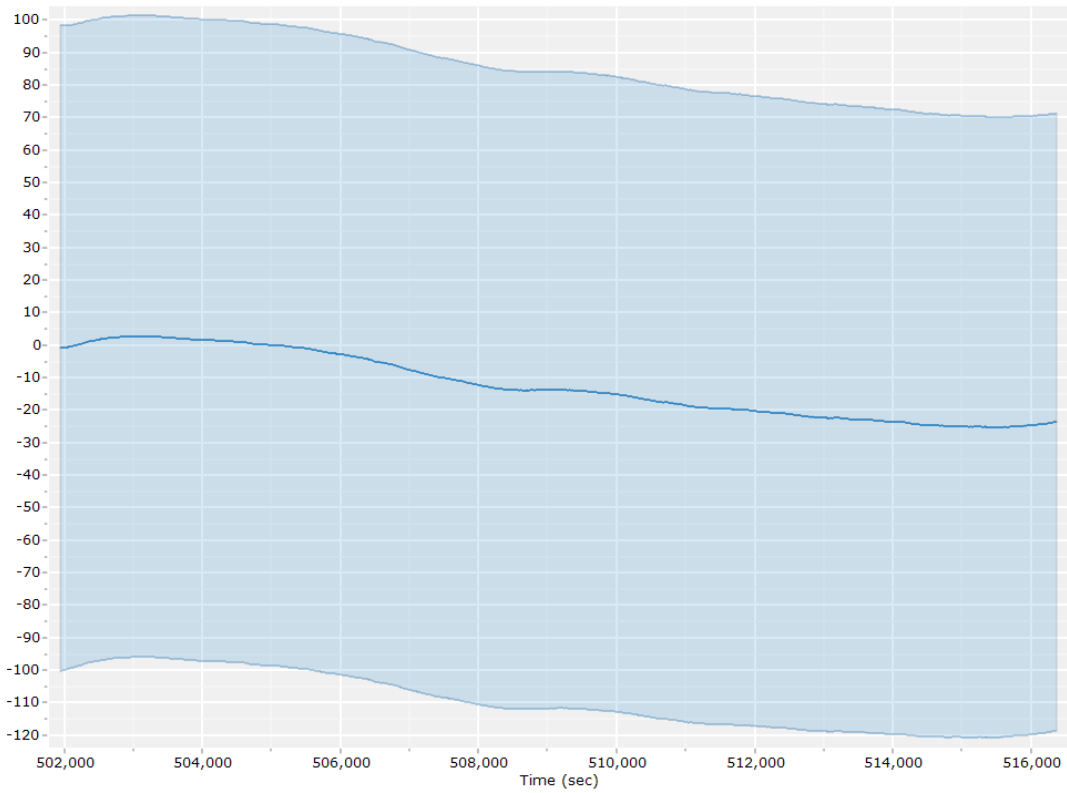
X Accelerometer Bias (micro-g)



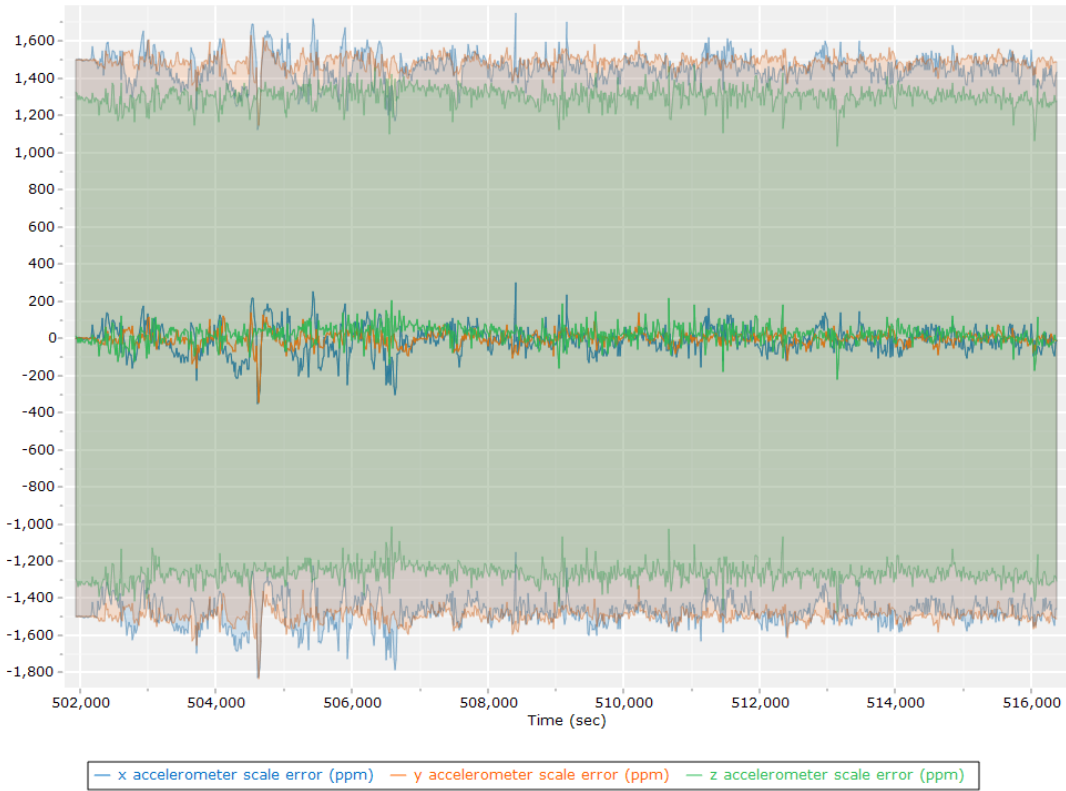
Y Accelerometer Bias (micro-g)



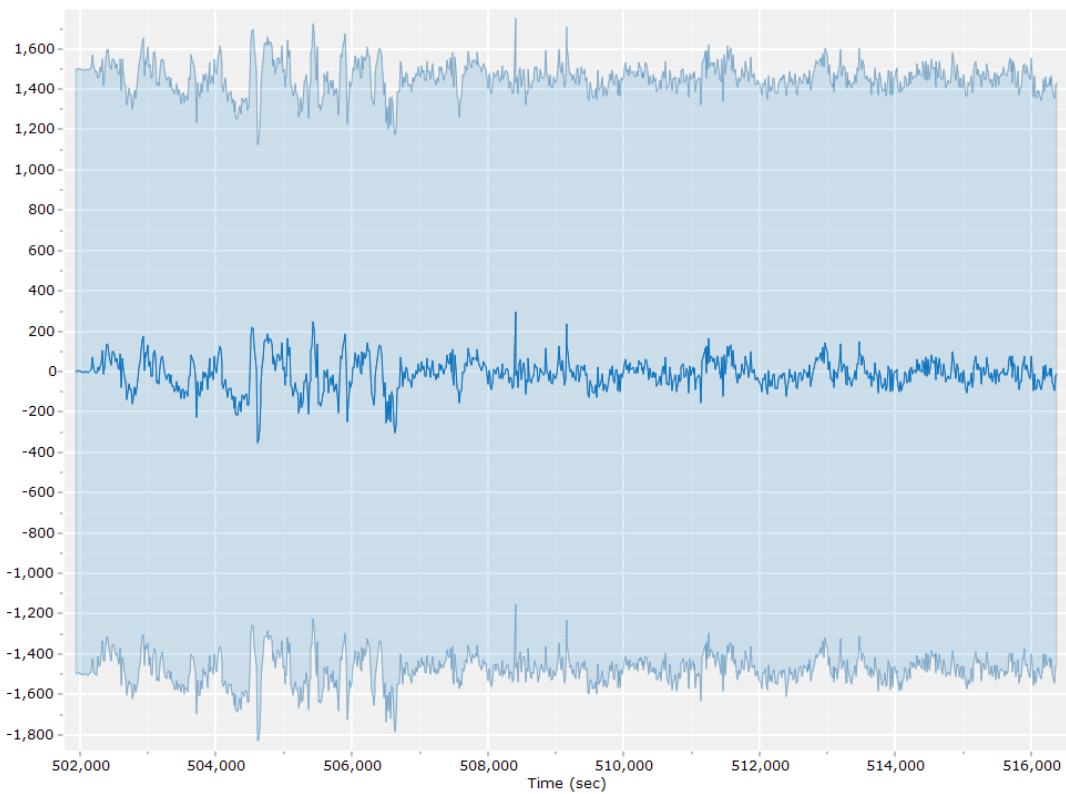
Z Accelerometer Bias (micro-g)



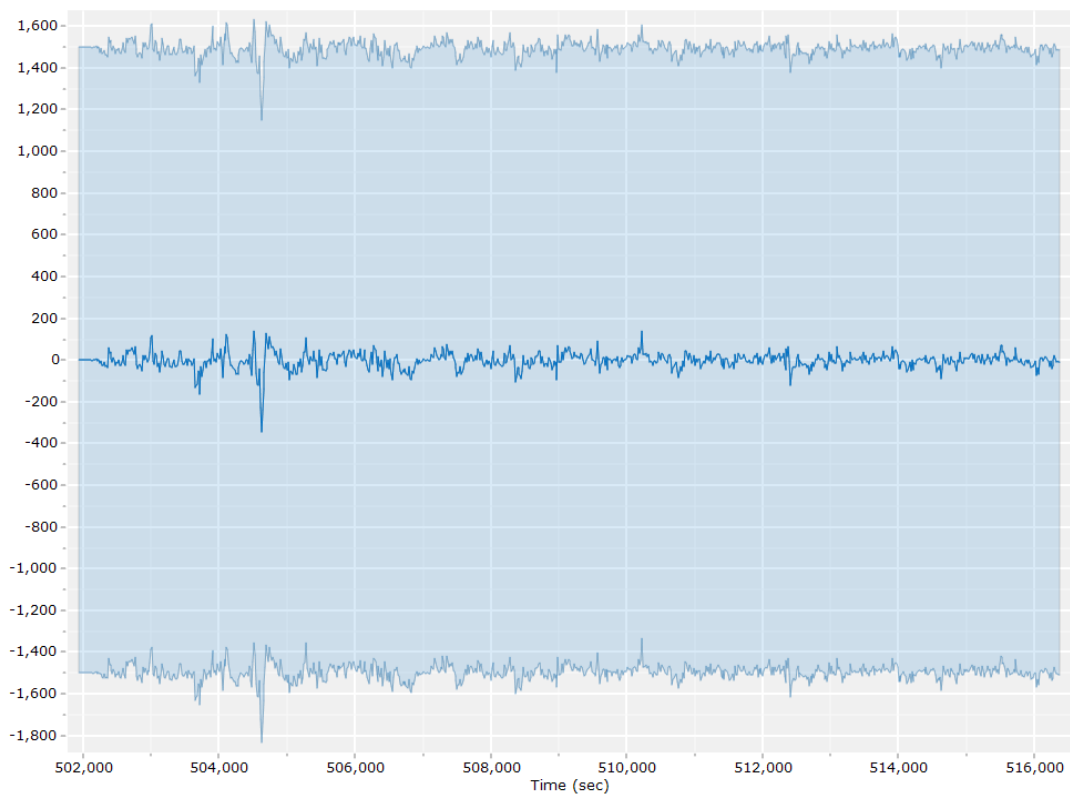
Accelerometer Scale Error (ppm)



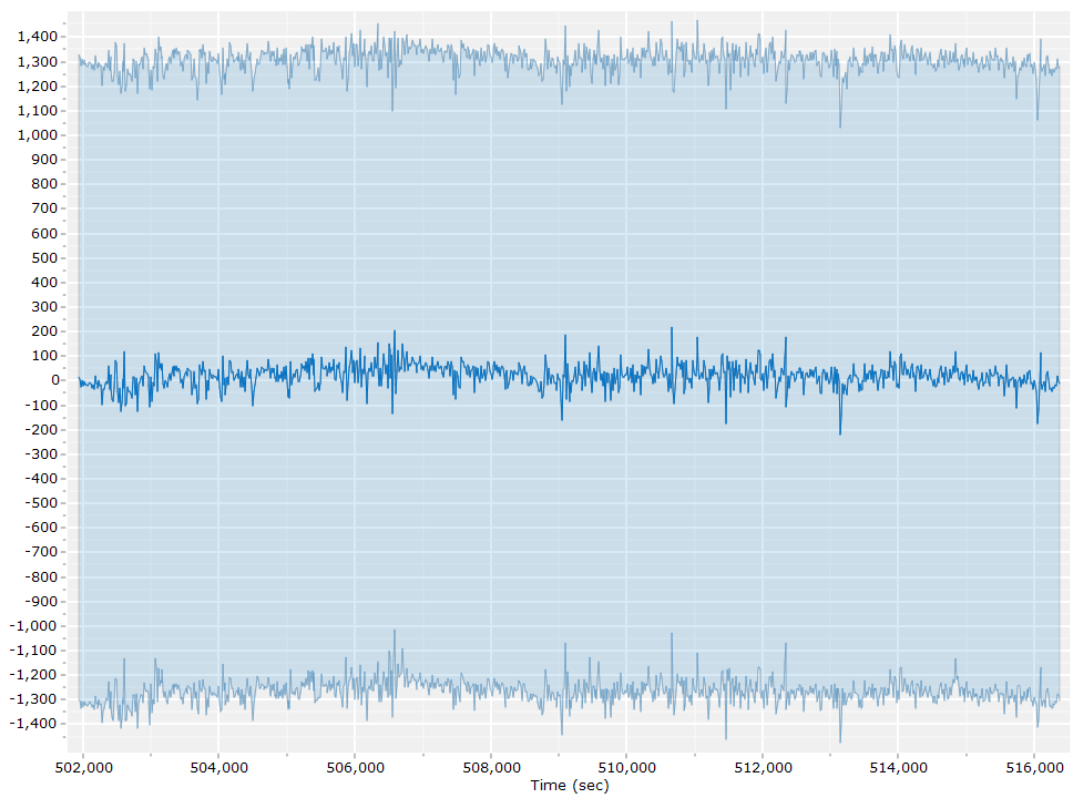
X Accelerometer Scale Error (ppm)



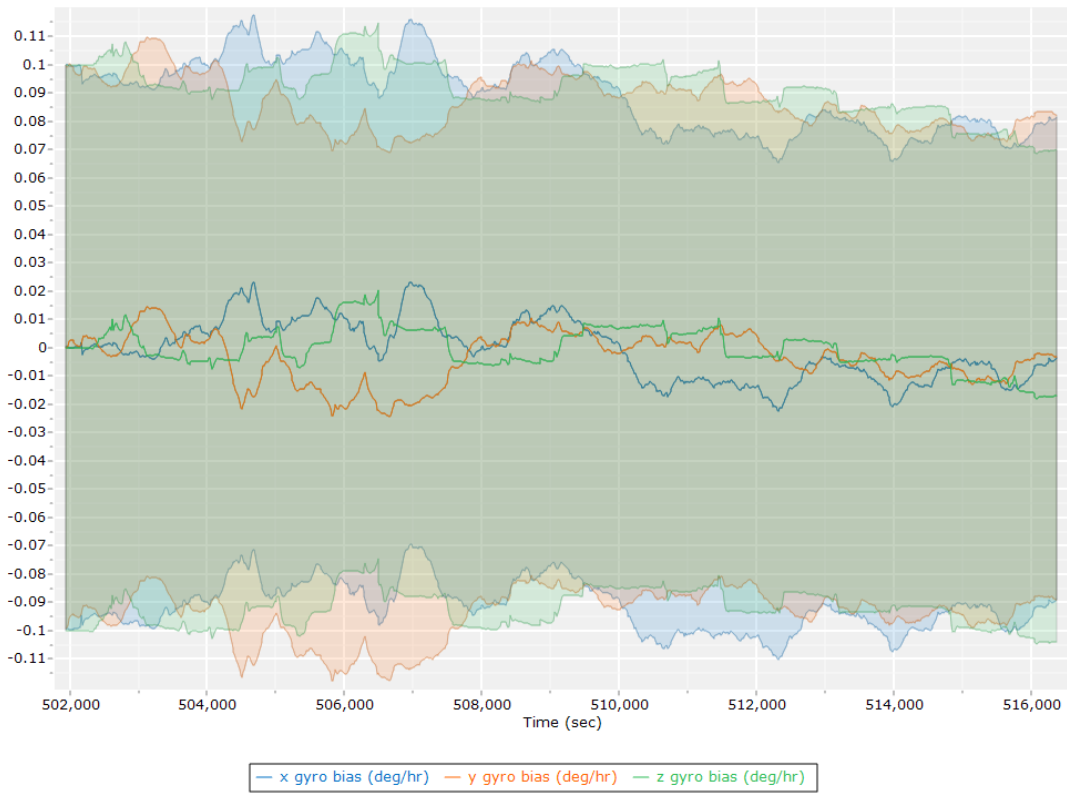
Y Accelerometer Scale Error (ppm)



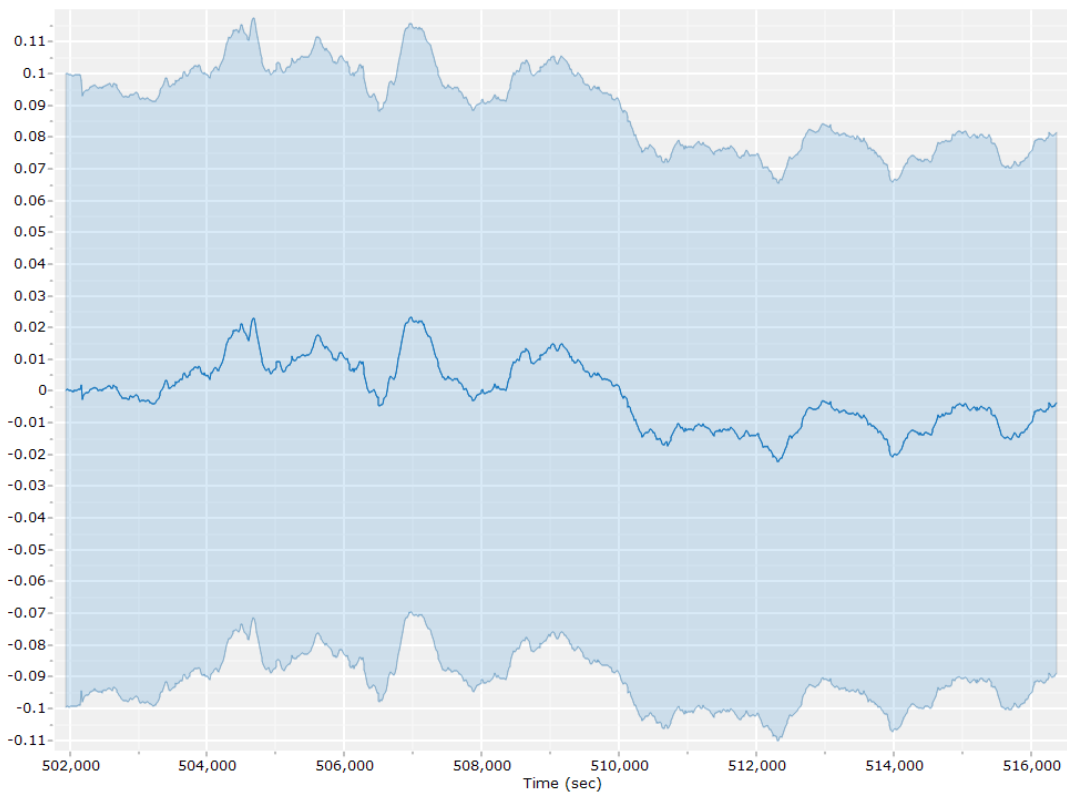
Z Accelerometer Scale Error (ppm)



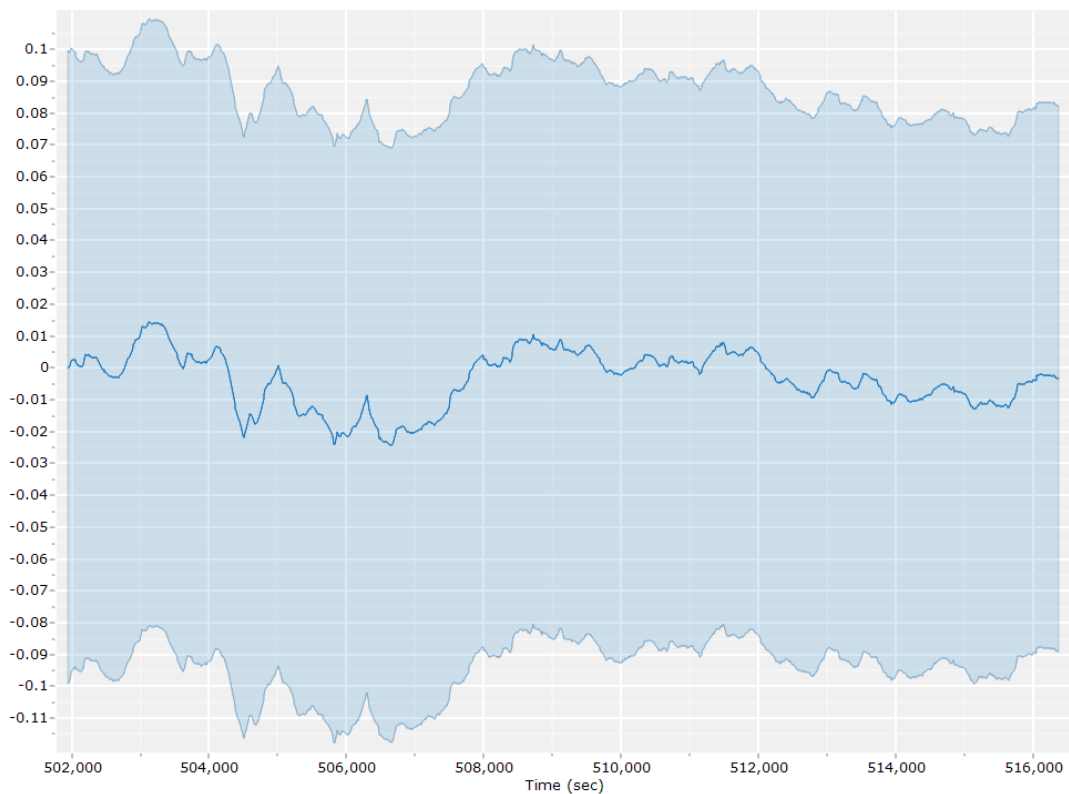
Gyro Bias (deg/h)



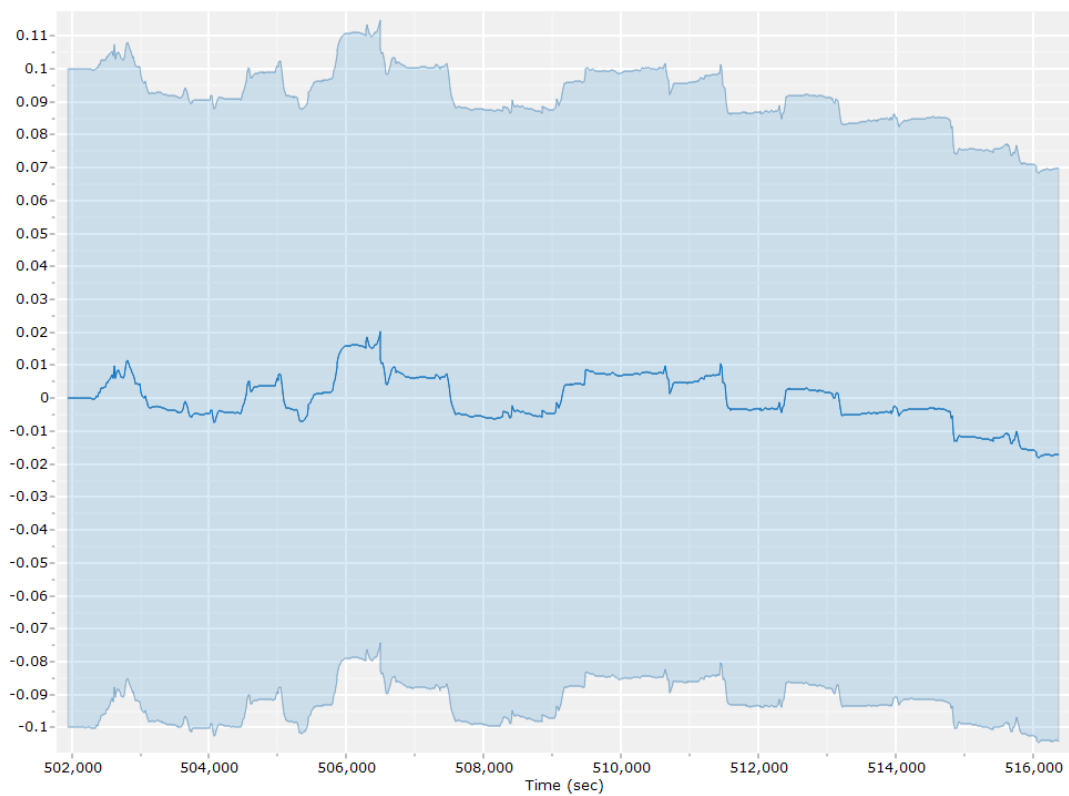
X Gyro Bias (deg/h)



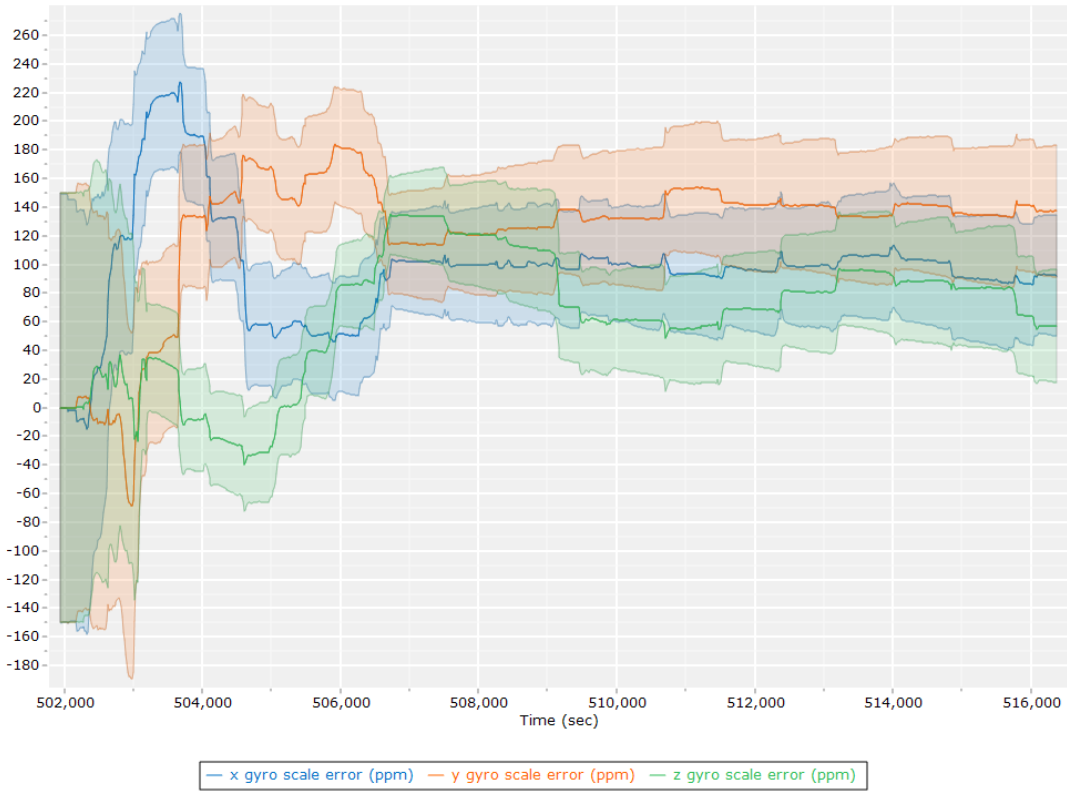
Y Gyro Bias (deg/h)



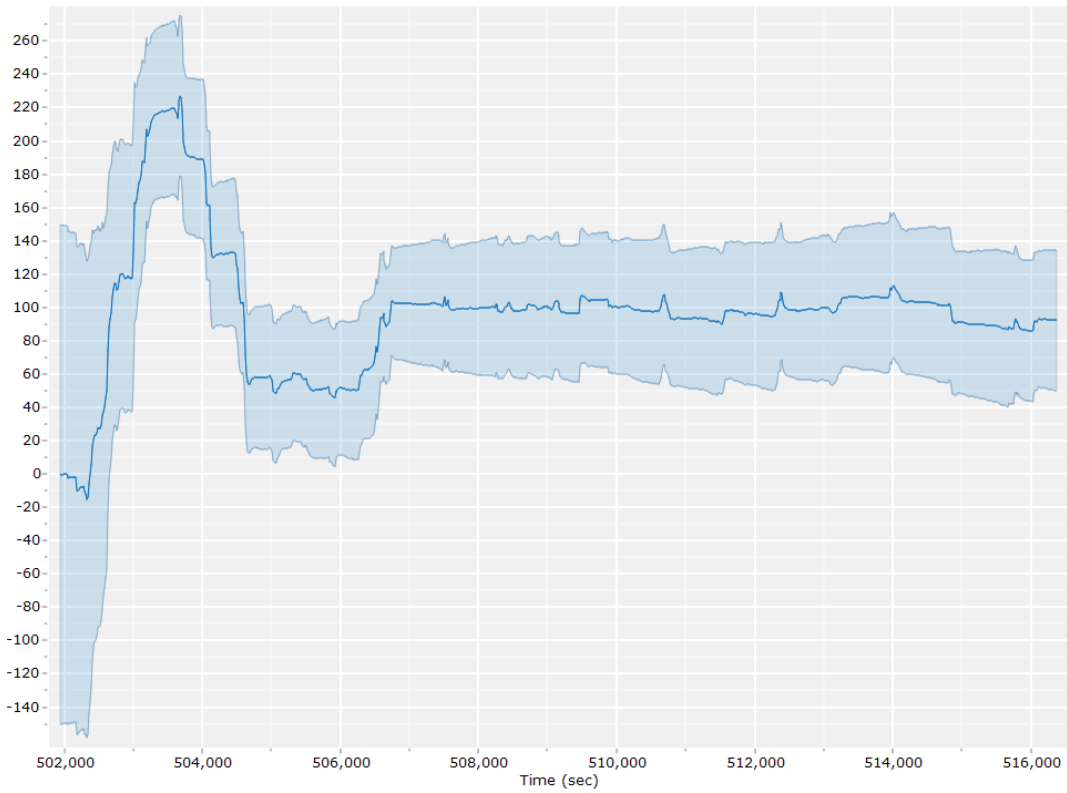
Z Gyro Bias (deg/h)



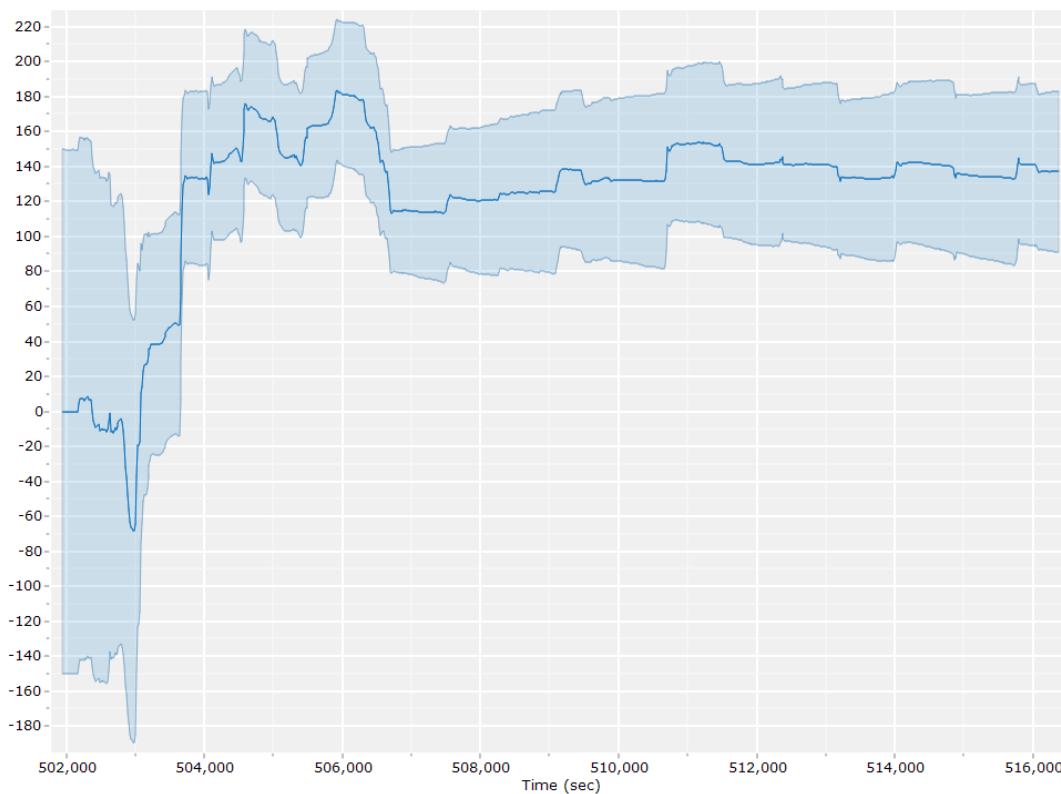
Gyro Scale Error (ppm)



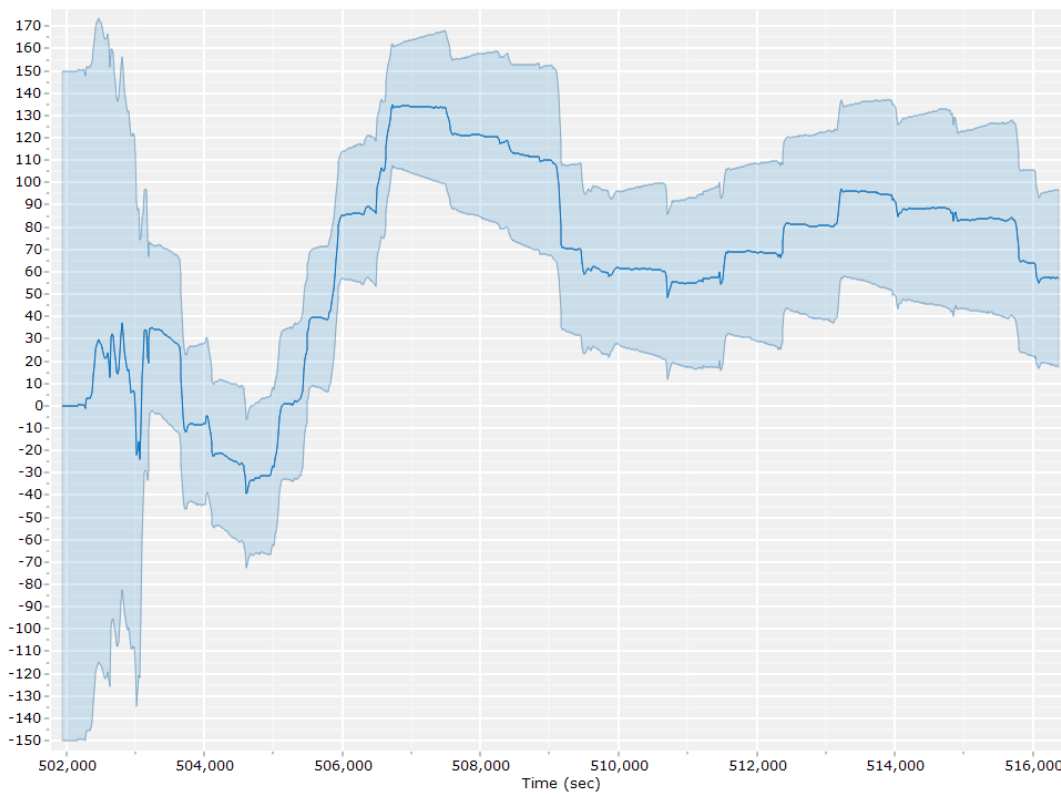
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

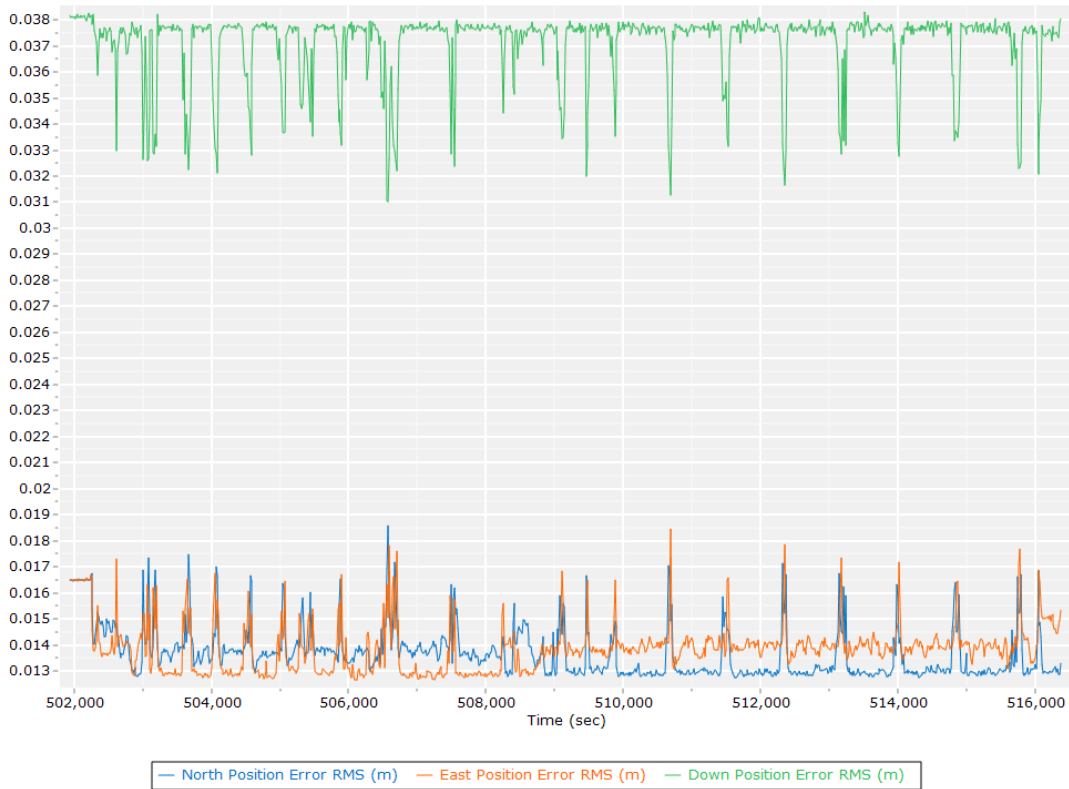


Z Gyro Scale Error (ppm)

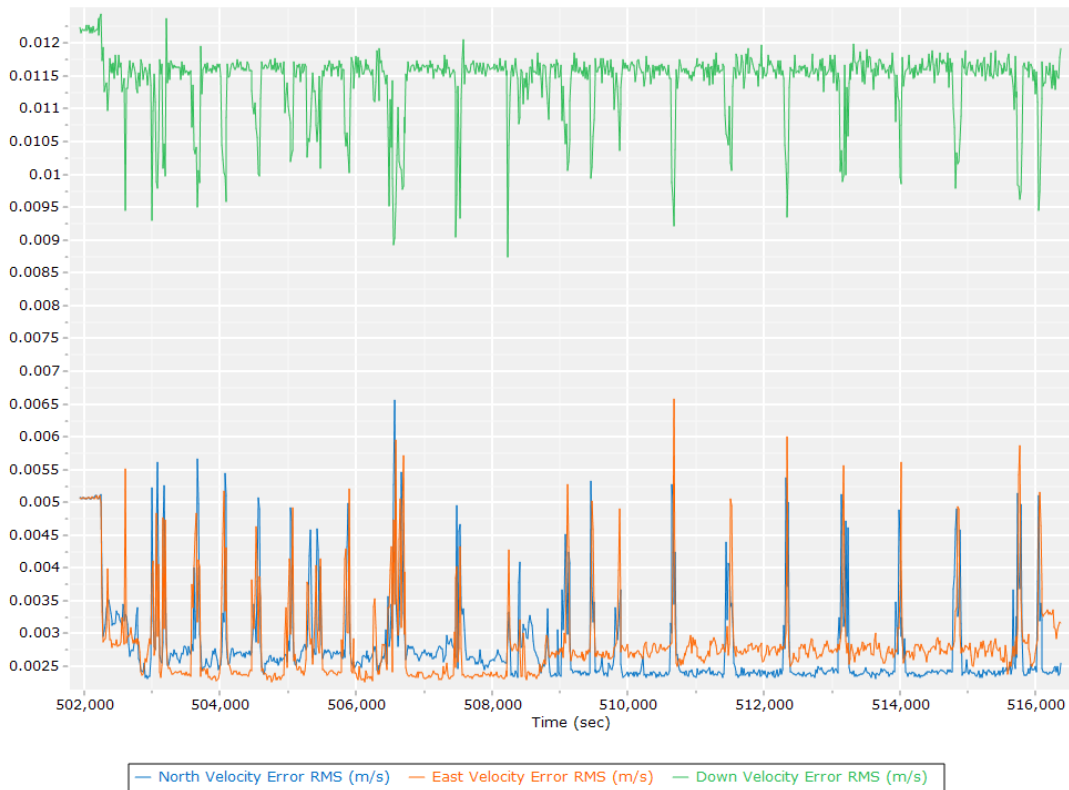


Smoothed Performance Metrics

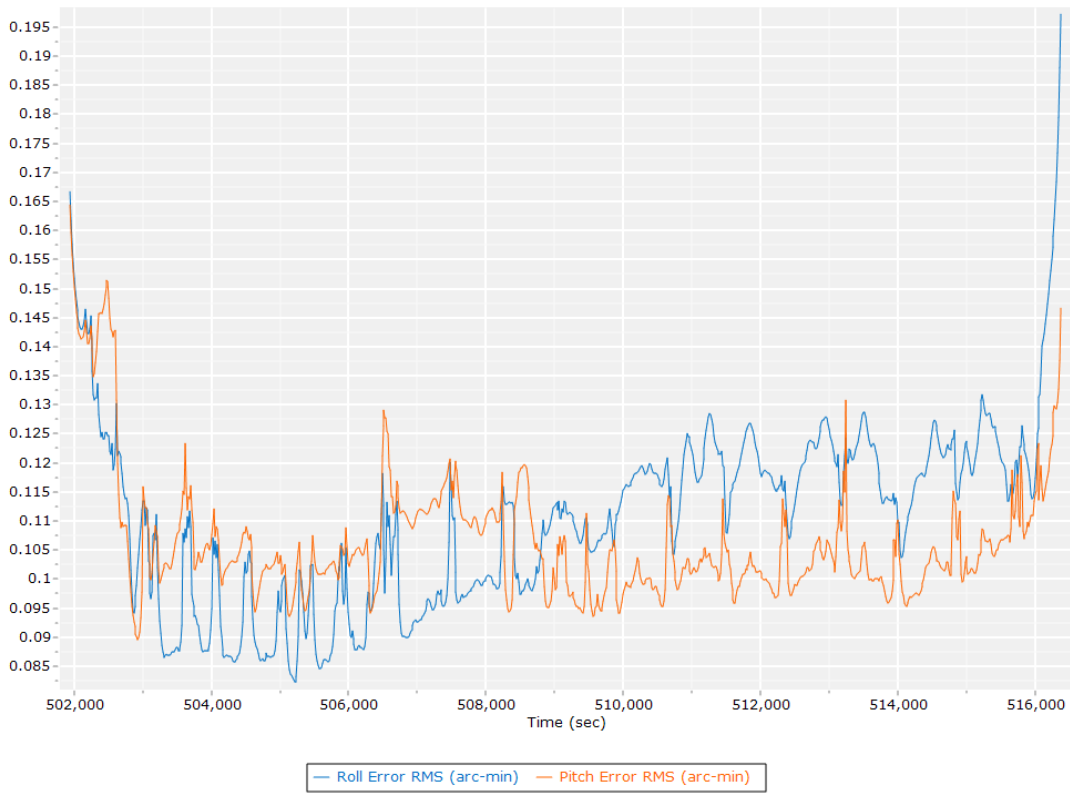
Position Error RMS (m)



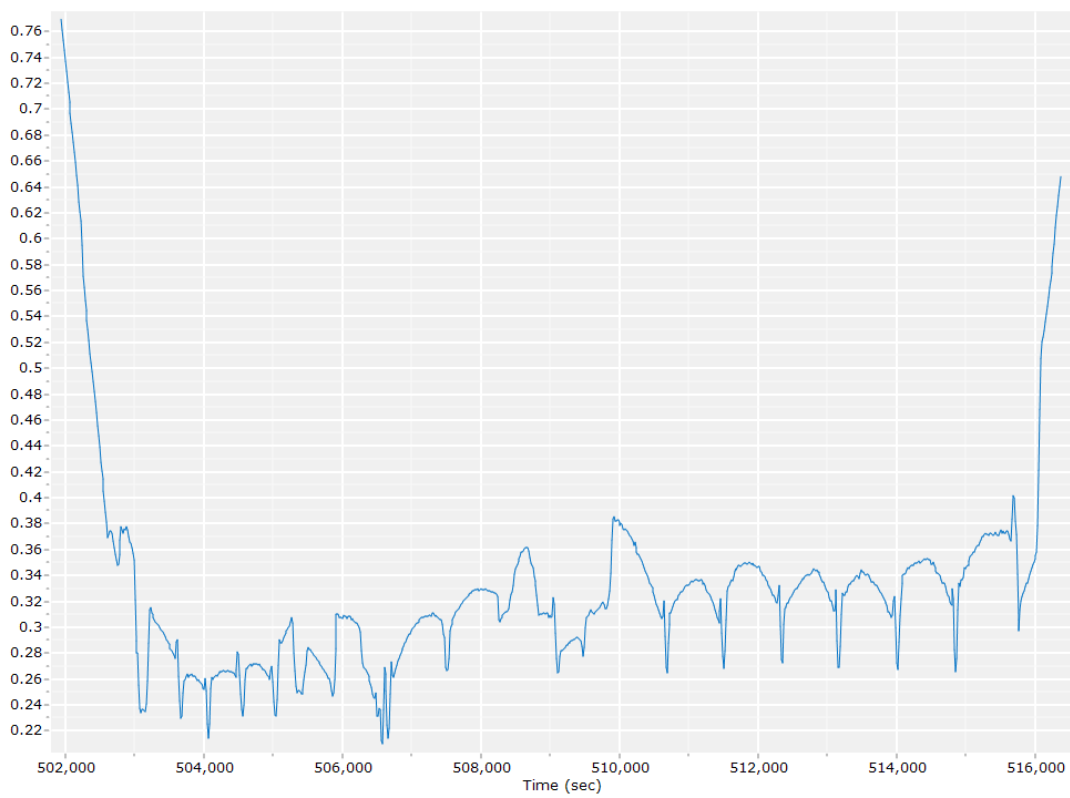
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

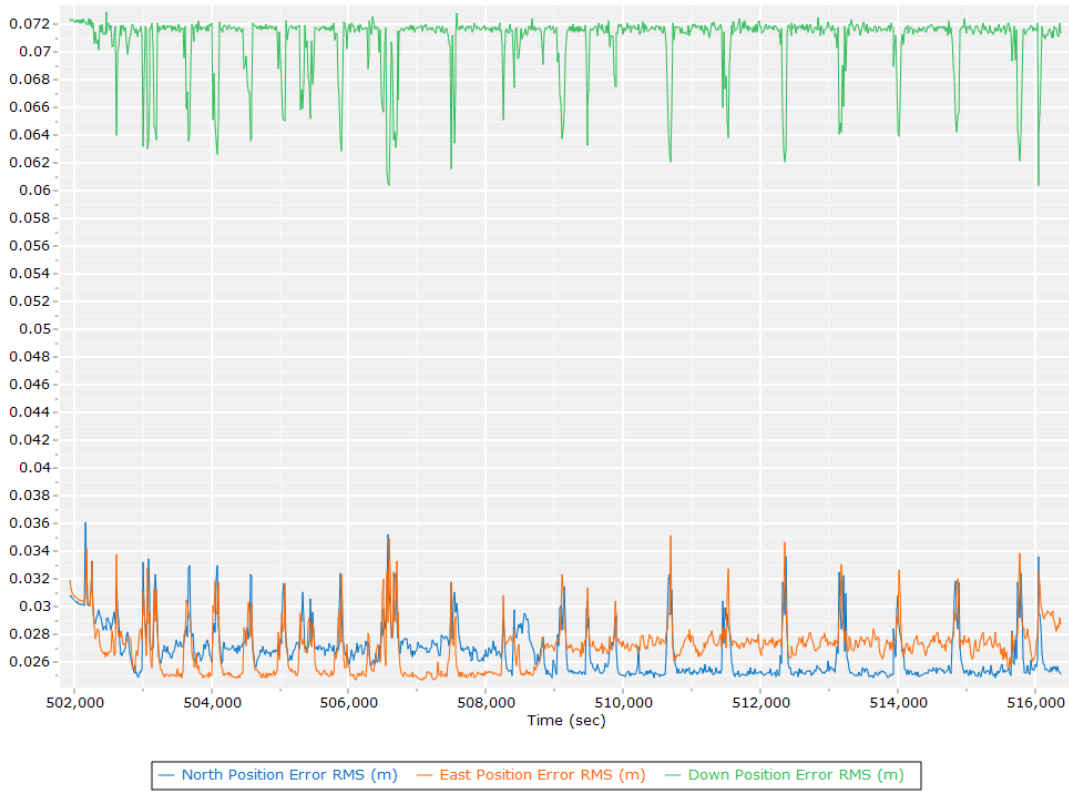


Heading Error RMS (arc-min)

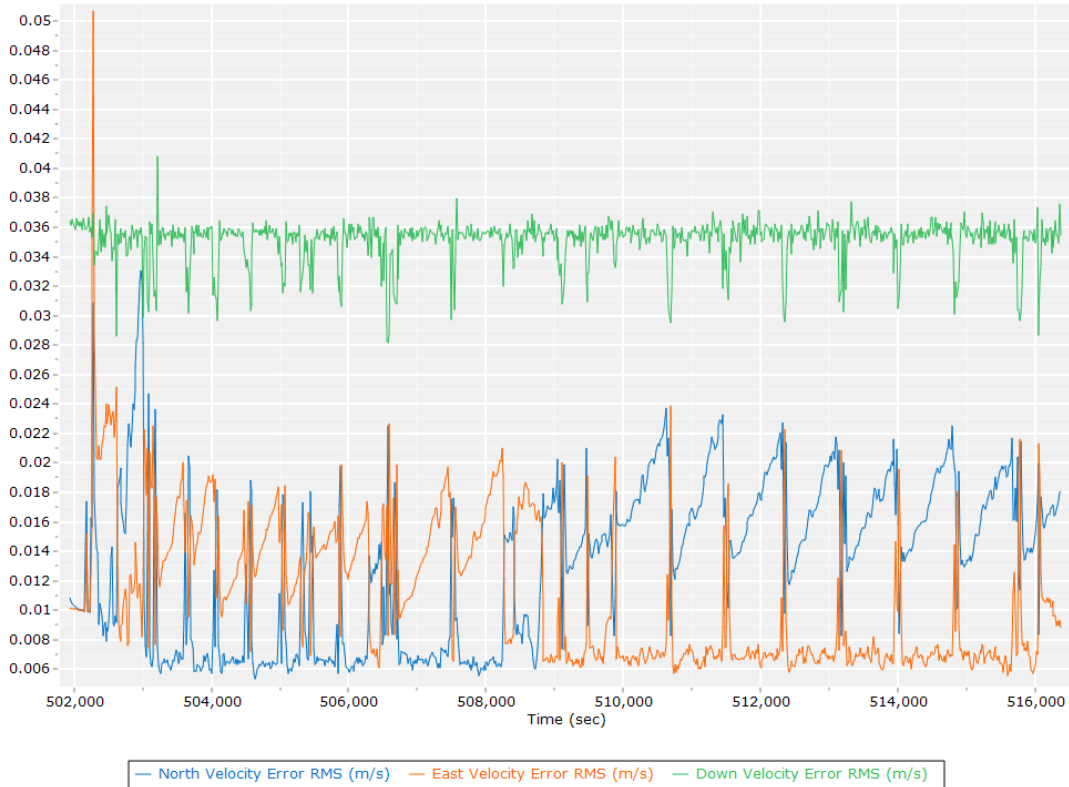


Forward Processed Performance Metrics

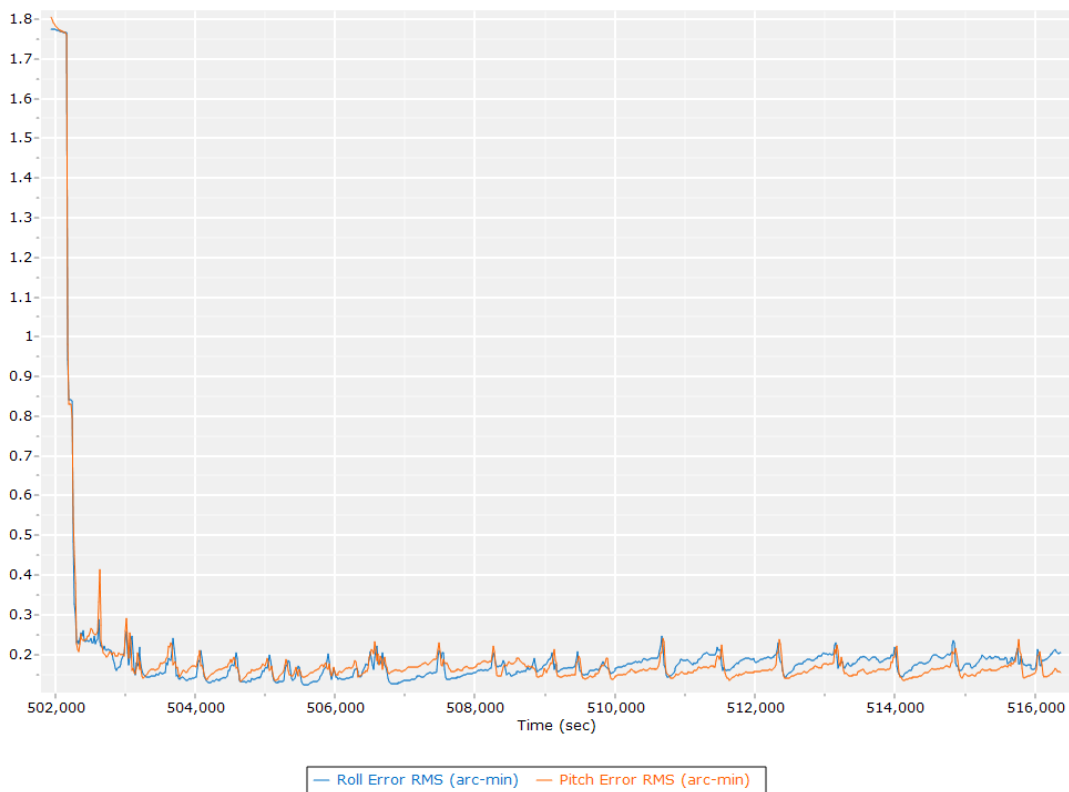
Position Error RMS (m)



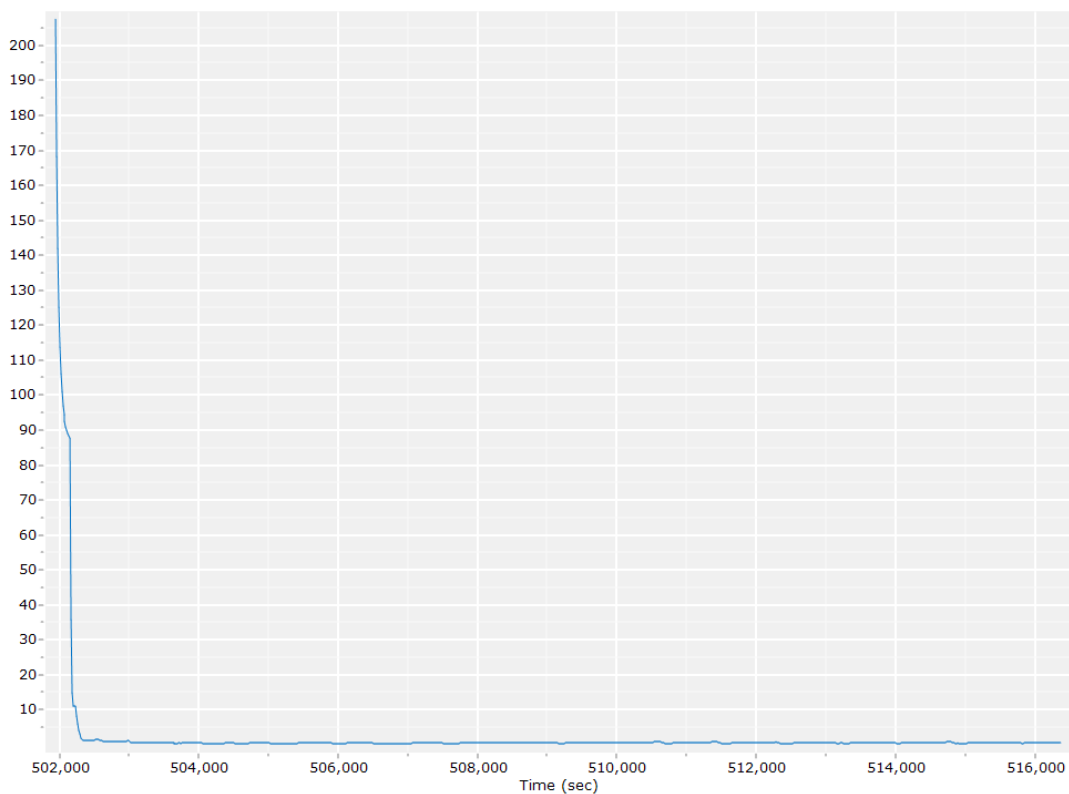
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

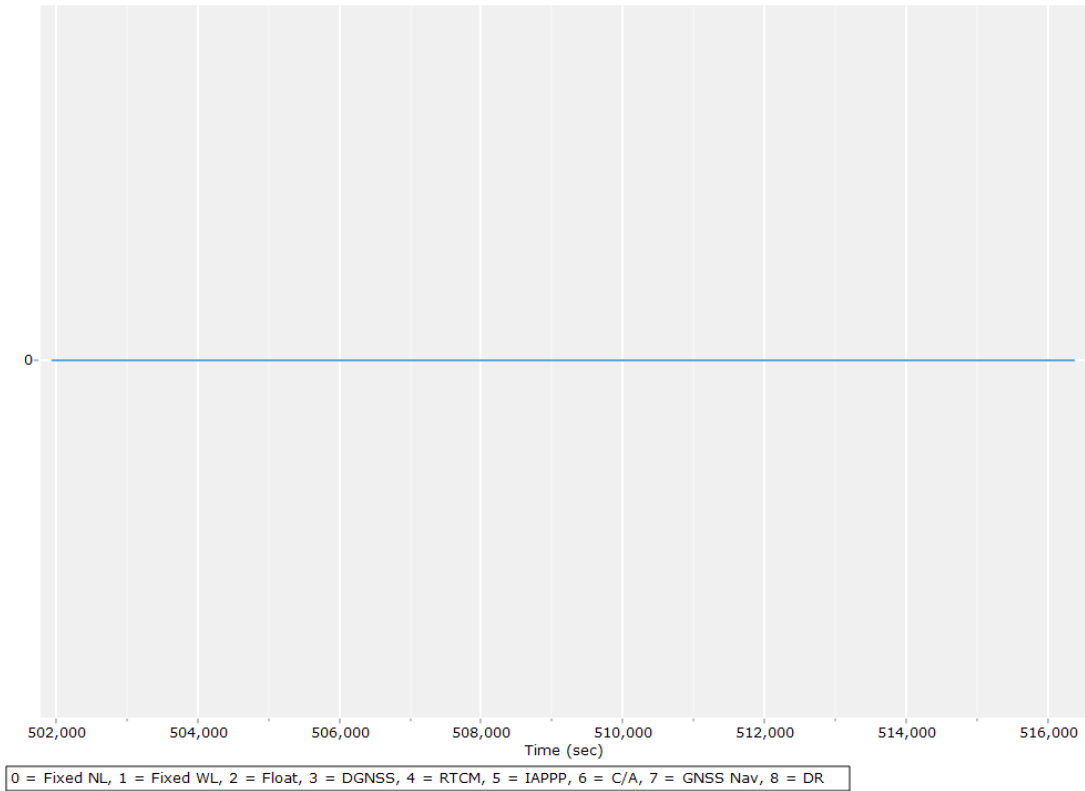


Heading Error RMS (arc-min)

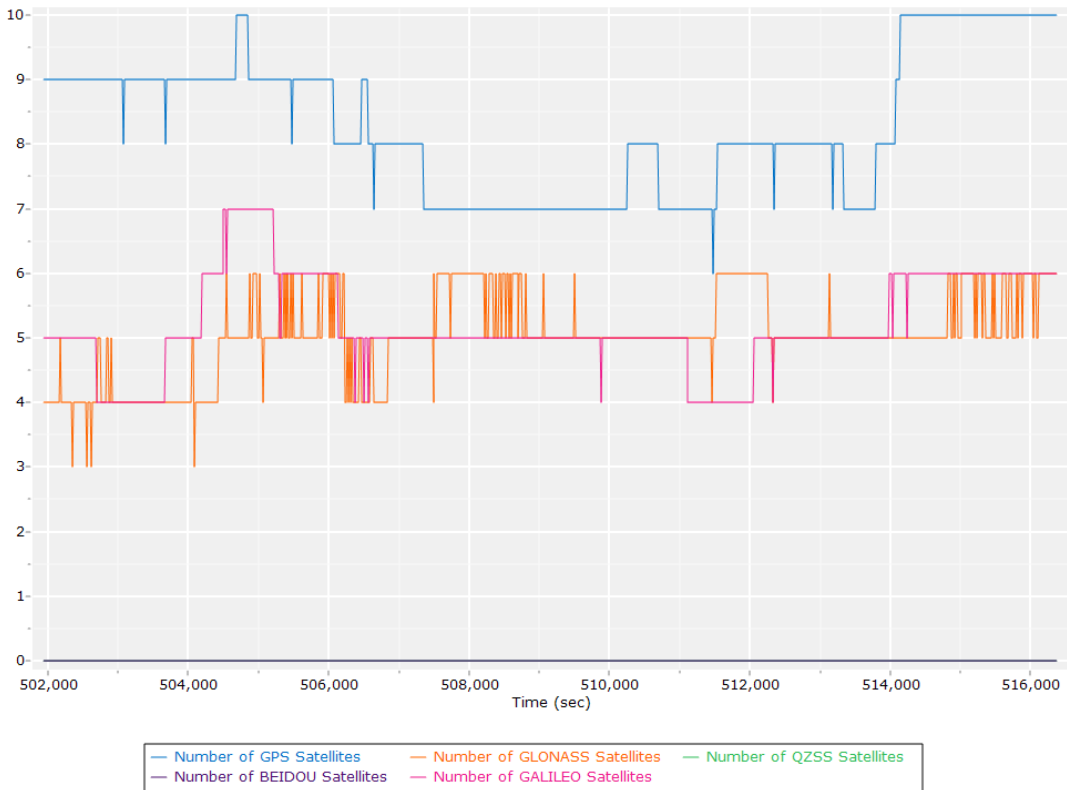


Forward Processed Solution Status

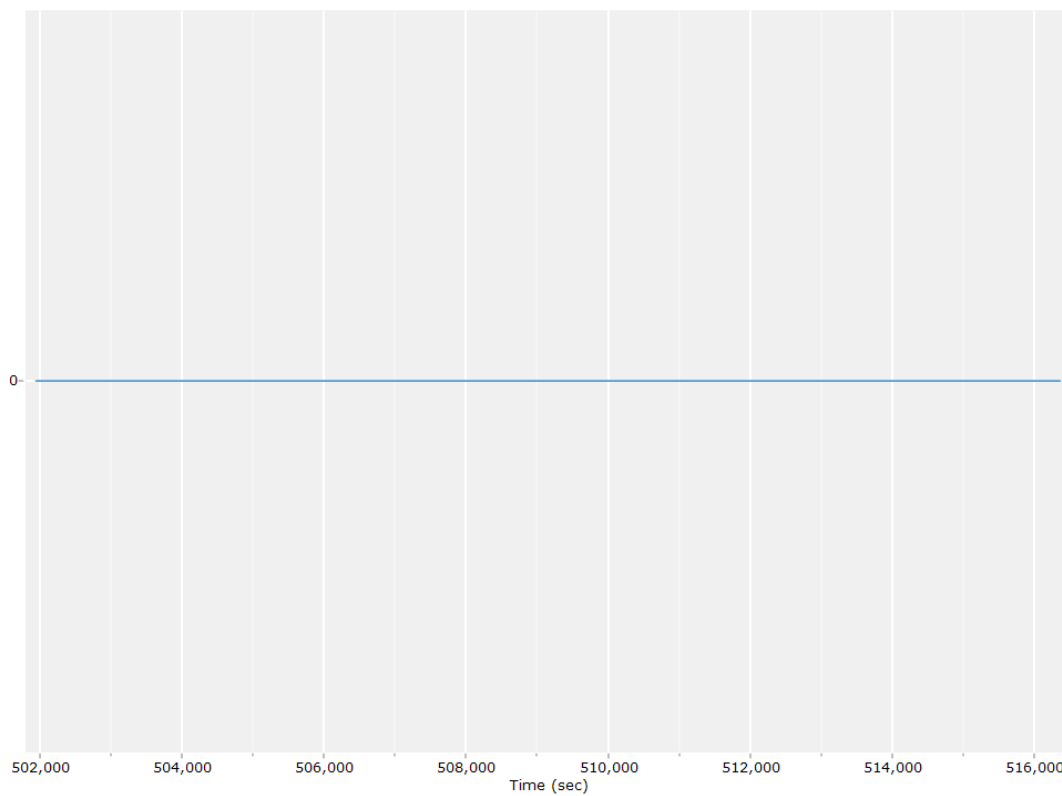
Processing Mode



Number of Satellites



Baseline Length



Export Summary

Export file	export_Mission 1.out		
Export format	Custom Smoothed BET		
Solution in use	Post-processed		
Output rate	All Records		
Reference to Output lever arm (m)	0.000	0.000	0.000
Reference mounting angles (deg)	0.000	0.000	0.000
Output units (Coordinate / Lat & Lon)	Meter	Deg Decimal	
Export start time	501883.004 (03/17/2023 19:24:43)		
Export end time	516381.001 (03/17/2023 23:26:21)		
Height option	Ellipsoid Height		
WGS84 height flag	False		
Grid	Universal Transverse Mercator		
Zone	UTM North 12 (114W to 108W)		
Datum	NAD83 (2011)		
Ellipsoid	GRS 1980		
Local Transformation	NONE		
Target Epoch	2023.205479		

General Information

Mission Information

Project name	23022_Mohave_QL1_20230401_T2L2_pprtx
Processing date	2023-04-04 21:42:46
Mission date	2023-04-01 22:35:45
Mission duration	04:30:14.154
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey2.pos	POS Data

Input Files

File Name	File Type
Ephm0910.23g	GLONASS Broadcast Ephemeris
Ephm0910.23n	GPS Broadcast Ephemeris
Ephm0920.23g	GLONASS Broadcast Ephemeris
Ephm0920.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey2.pos		
Last raw data file	survey2.pos		
Start GPS week	2255		
Start time	599744.827 (04/01/2023 22:35:44)		
End time	11627.861 (04/02/2023 03:13:47)		
Start of fine alignment	599954.180 (04/01/2023 22:39:14)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
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

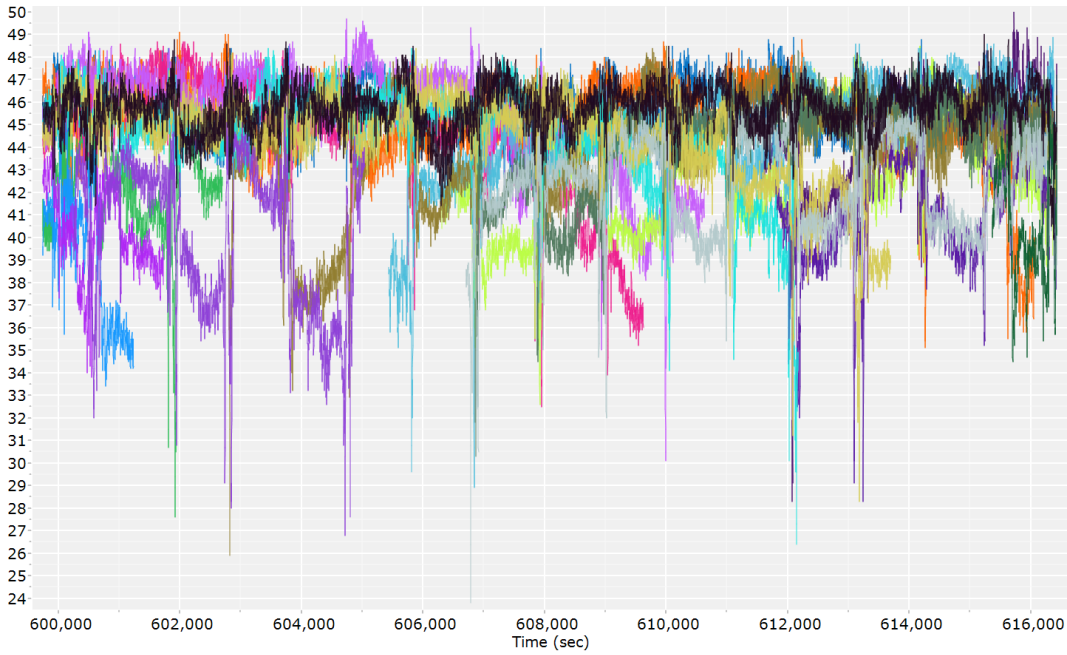
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	3335982
Termination Status	Warnings
IMU Anomalies	3
IMU Failure Messages	
615959.160 : WARNING : Excessive time tag jitter of 0.0074 seconds in CHECKDT data	
615959.155 : WARNING : Gap of 0.0100 seconds in CHECKDT input data	

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

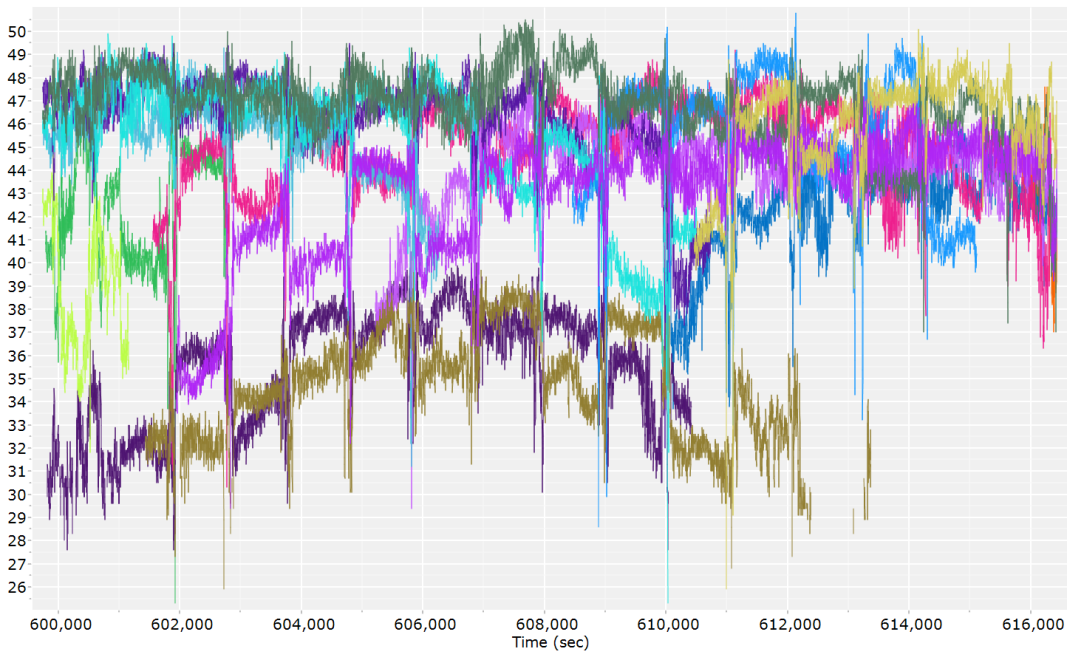


GPS L1 SNR



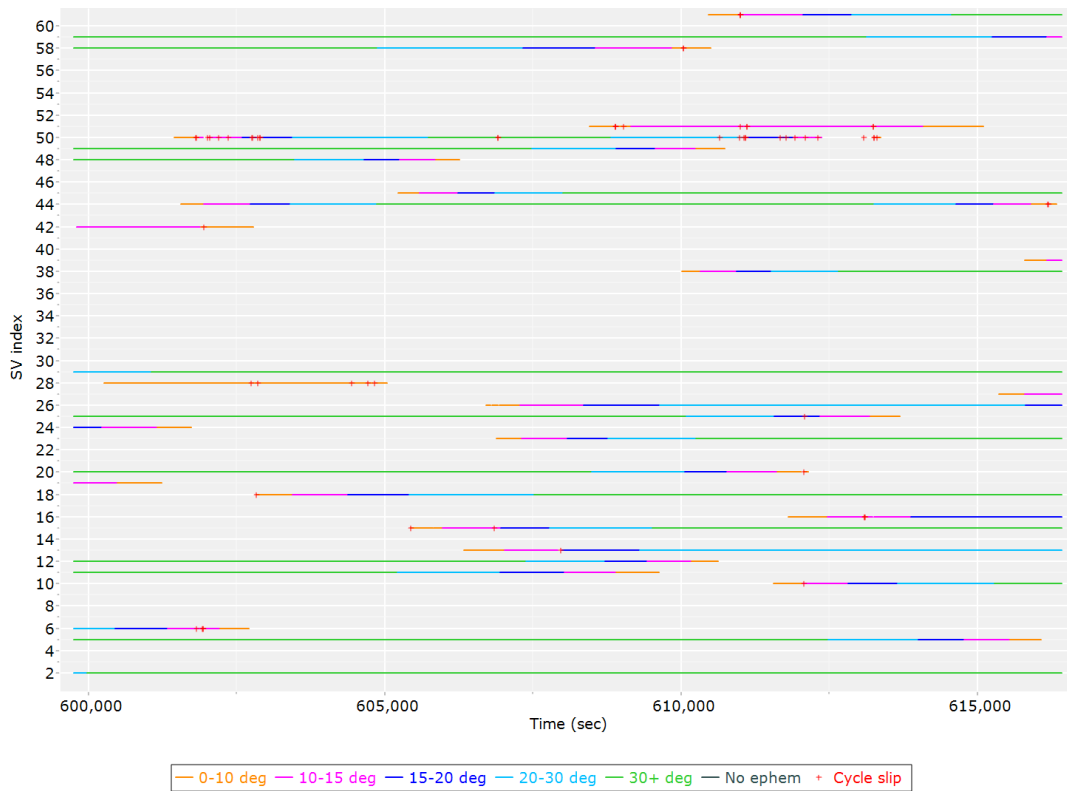
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 02 L1 SNR (dB/Hz) | GPS PRN 05 L1 SNR (dB/Hz) | GPS PRN 06 L1 SNR (dB/Hz) | GPS PRN 10 L1 SNR (dB/Hz) |
| GPS PRN 11 L1 SNR (dB/Hz) | GPS PRN 12 L1 SNR (dB/Hz) | GPS PRN 13 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) |
| GPS PRN 16 L1 SNR (dB/Hz) | GPS PRN 18 L1 SNR (dB/Hz) | GPS PRN 19 L1 SNR (dB/Hz) | GPS PRN 20 L1 SNR (dB/Hz) |
| GPS PRN 23 L1 SNR (dB/Hz) | GPS PRN 24 L1 SNR (dB/Hz) | GPS PRN 25 L1 SNR (dB/Hz) | GPS PRN 26 L1 SNR (dB/Hz) |
| GPS PRN 27 L1 SNR (dB/Hz) | GPS PRN 28 L1 SNR (dB/Hz) | GPS PRN 29 L1 SNR (dB/Hz) | |

GLONASS L1 SNR

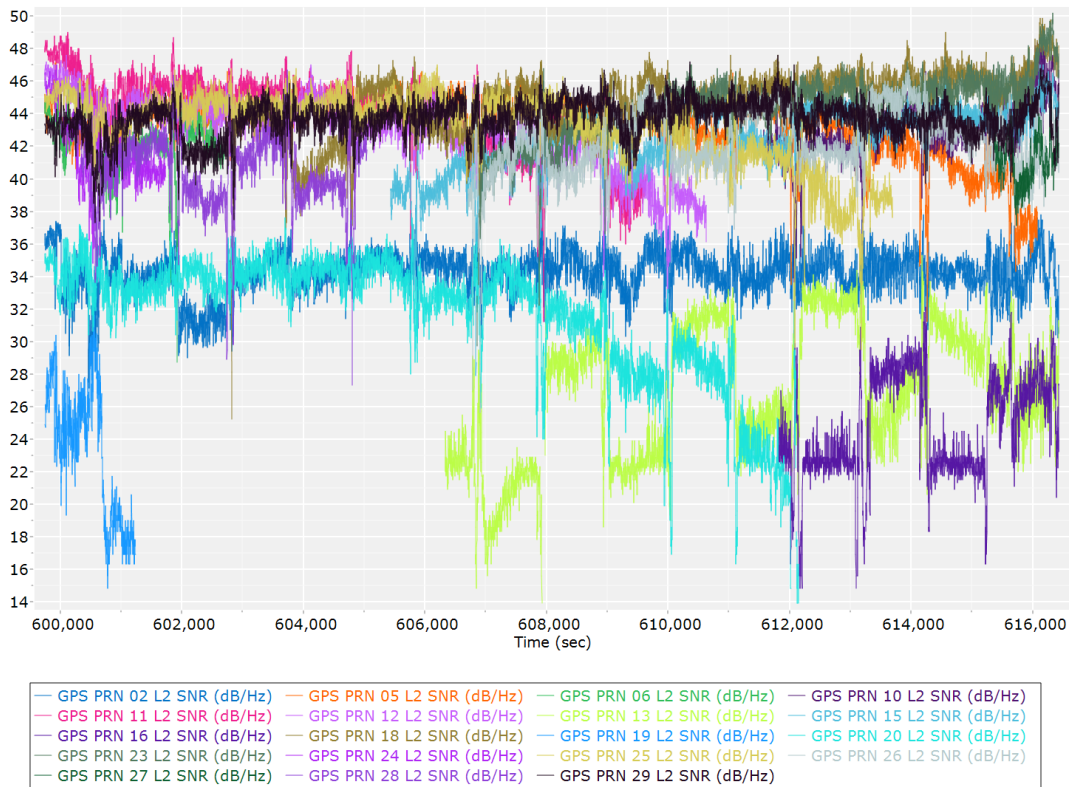


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 01 L1 SNR (dB/Hz) | GLONASS 02 L1 SNR (dB/Hz) | GLONASS 05 L1 SNR (dB/Hz) |
| GLONASS 06 L1 SNR (dB/Hz) | GLONASS 07 L1 SNR (dB/Hz) | GLONASS 08 L1 SNR (dB/Hz) |
| GLONASS 10 L1 SNR (dB/Hz) | GLONASS 11 L1 SNR (dB/Hz) | GLONASS 12 L1 SNR (dB/Hz) |
| GLONASS 13 L1 SNR (dB/Hz) | GLONASS 14 L1 SNR (dB/Hz) | GLONASS 21 L1 SNR (dB/Hz) |
| GLONASS 22 L1 SNR (dB/Hz) | GLONASS 23 L1 SNR (dB/Hz) | GLONASS 24 L1 SNR (dB/Hz) |

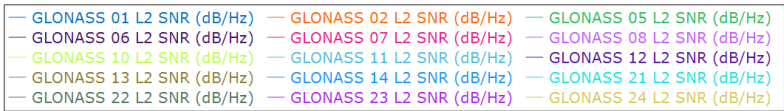
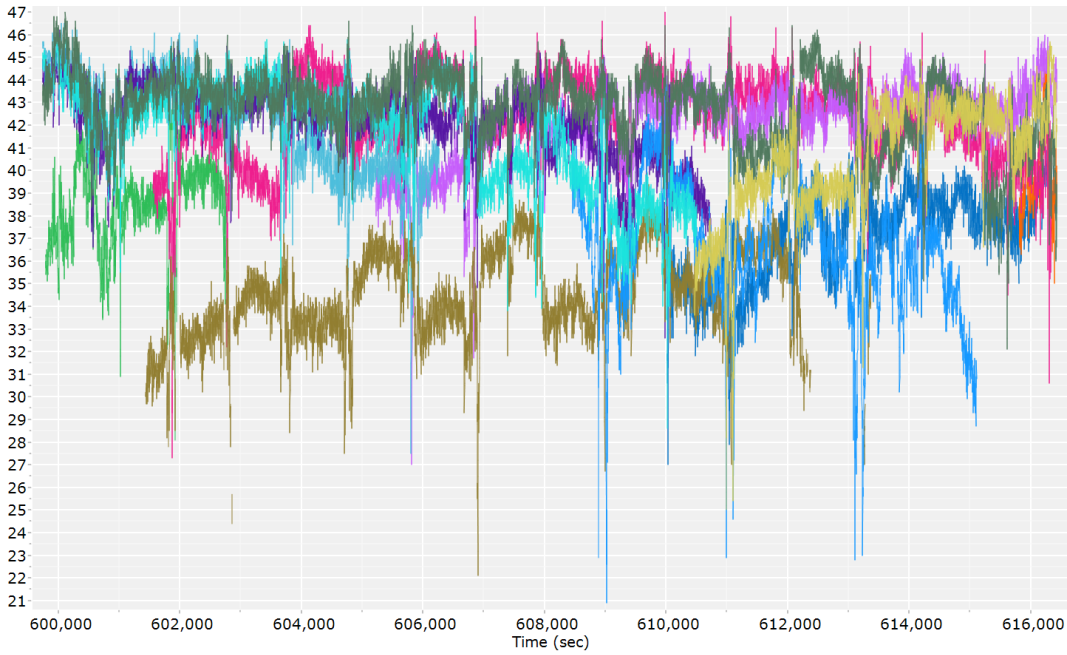
GPS/GLONASS L2 Satellite Lock/Elevation



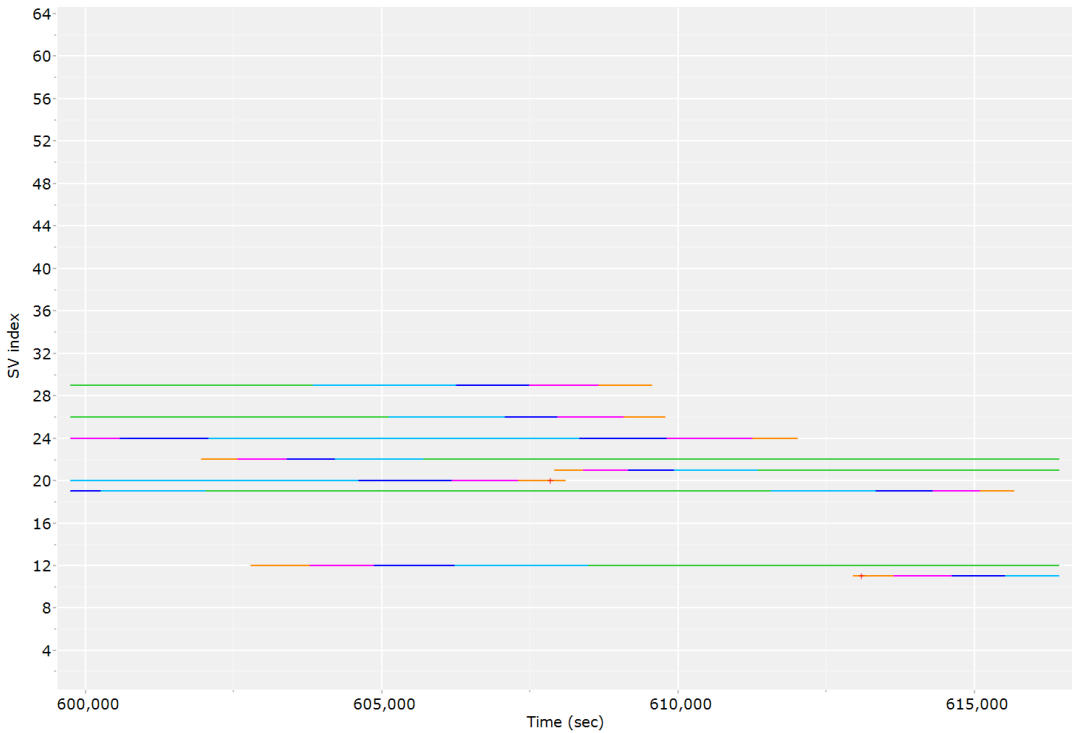
GPS L2 SNR



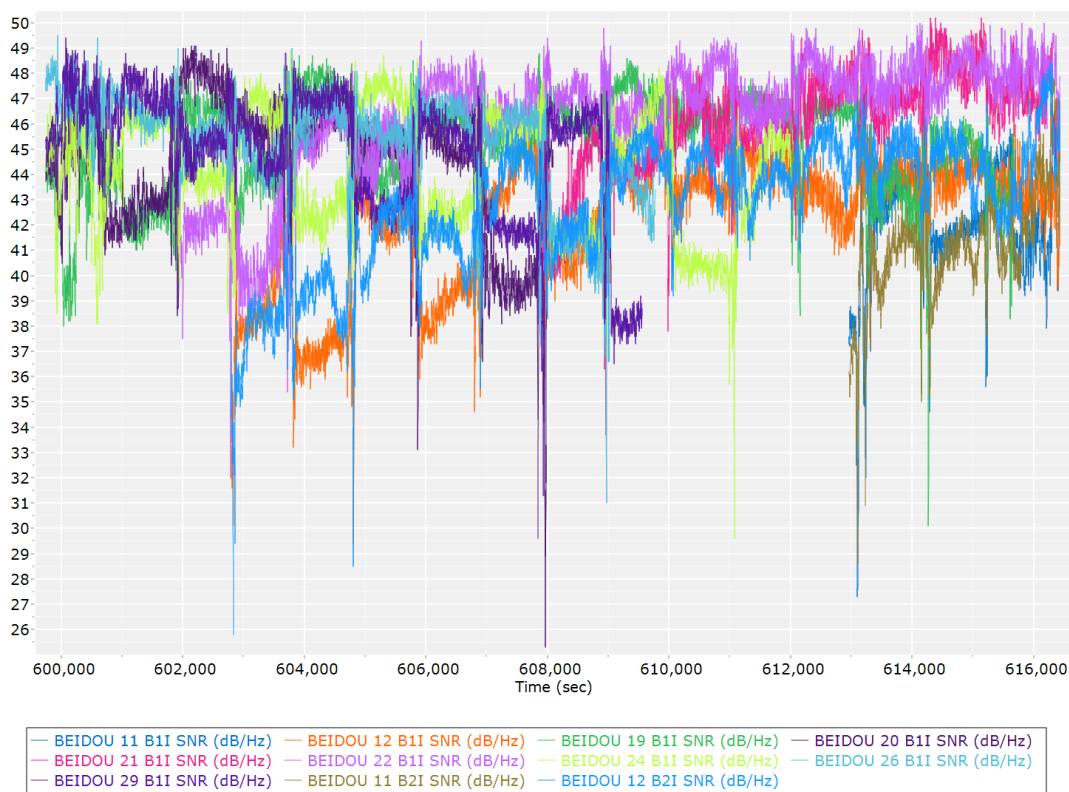
GLONASS L2 SNR



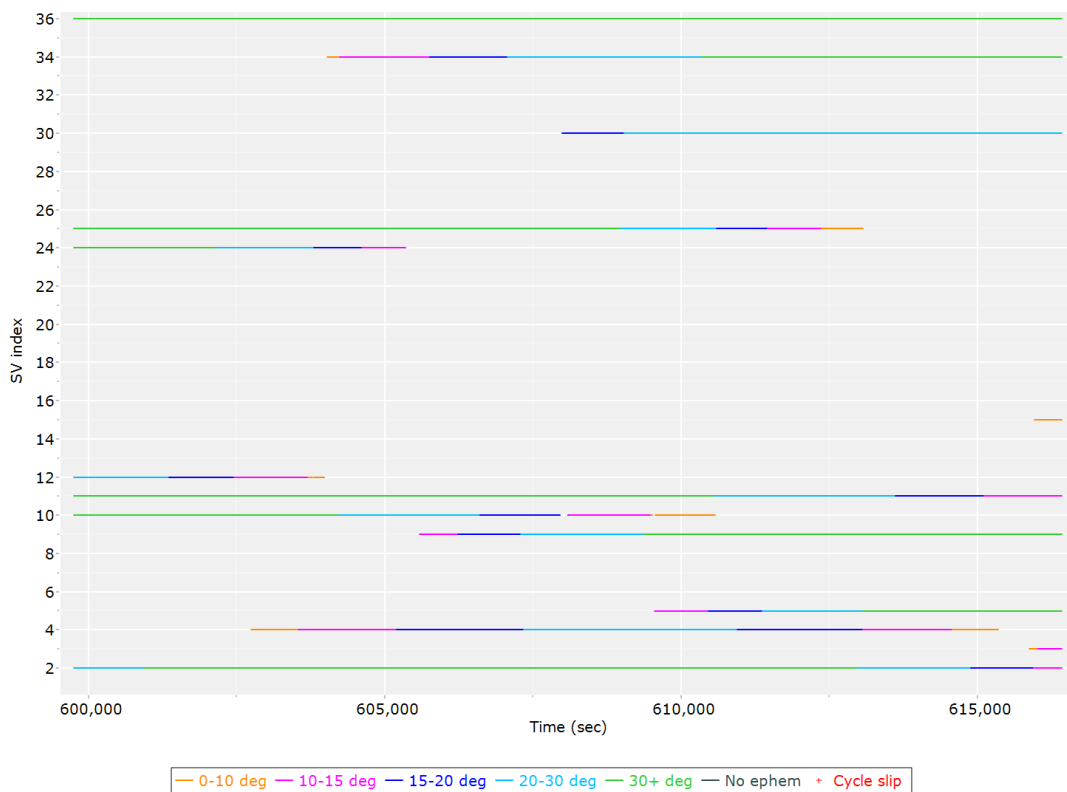
BEIDOU Satellite Lock/Elevation



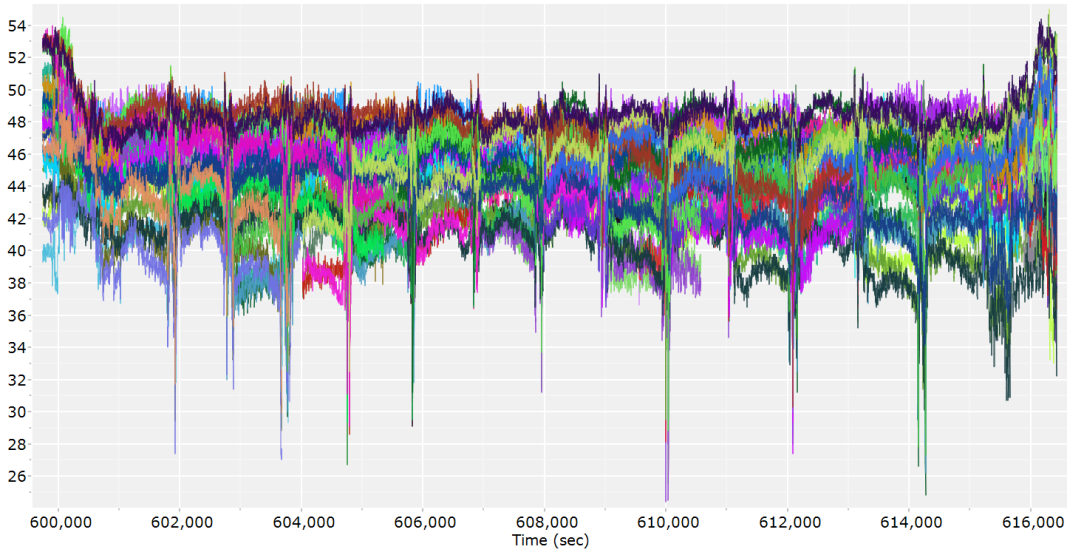
BEIDOU SNR



GALILEO Satellite Lock/Elevation



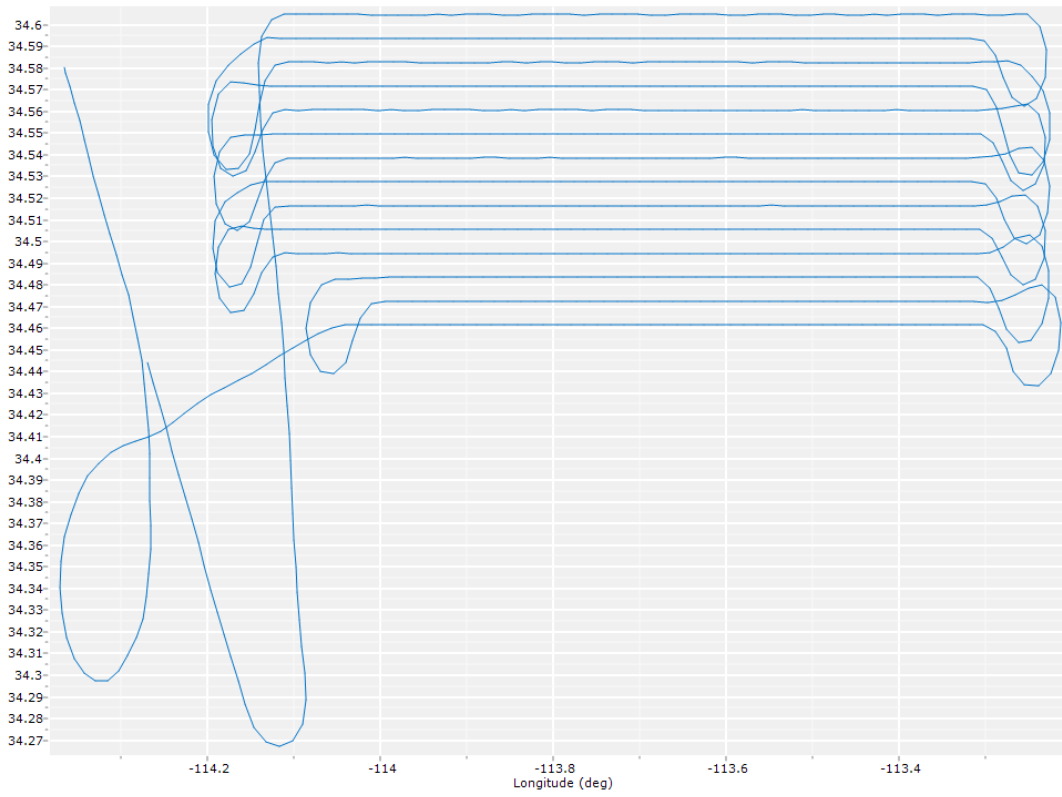
GALILEO SNR



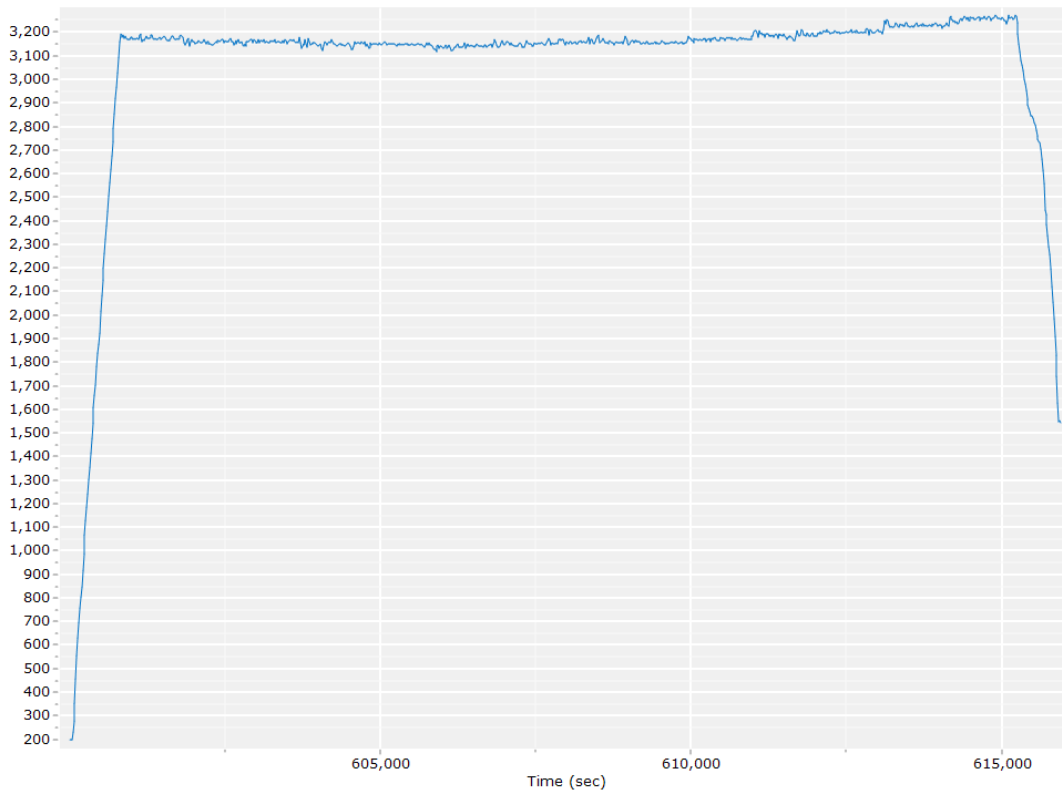
— GALILEO 02 E1CBOC SNR (dB/Hz)	— GALILEO 03 E1CBOC SNR (dB/Hz)	— GALILEO 04 E1CBOC SNR (dB/Hz)
— GALILEO 05 E1CBOC SNR (dB/Hz)	— GALILEO 09 E1CBOC SNR (dB/Hz)	— GALILEO 10 E1CBOC SNR (dB/Hz)
— GALILEO 11 E1CBOC SNR (dB/Hz)	— GALILEO 12 E1CBOC SNR (dB/Hz)	— GALILEO 15 E1CBOC SNR (dB/Hz)
— GALILEO 24 E1CBOC SNR (dB/Hz)	— GALILEO 25 E1CBOC SNR (dB/Hz)	— GALILEO 30 E1CBOC SNR (dB/Hz)
— GALILEO 34 E1CBOC SNR (dB/Hz)	— GALILEO 36 E1CBOC SNR (dB/Hz)	— GALILEO 02 E5A SNR (dB/Hz)
— GALILEO 03 E5A SNR (dB/Hz)	— GALILEO 04 E5A SNR (dB/Hz)	— GALILEO 05 E5A SNR (dB/Hz)
— GALILEO 09 E5A SNR (dB/Hz)	— GALILEO 10 E5A SNR (dB/Hz)	— GALILEO 11 E5A SNR (dB/Hz)
— GALILEO 12 E5A SNR (dB/Hz)	— GALILEO 15 E5A SNR (dB/Hz)	— GALILEO 24 E5A SNR (dB/Hz)
— GALILEO 25 E5A SNR (dB/Hz)	— GALILEO 30 E5A SNR (dB/Hz)	— GALILEO 34 E5A SNR (dB/Hz)
— GALILEO 36 E5A SNR (dB/Hz)	— GALILEO 02 E5B SNR (dB/Hz)	— GALILEO 03 E5B SNR (dB/Hz)

Smoothed Trajectory Information

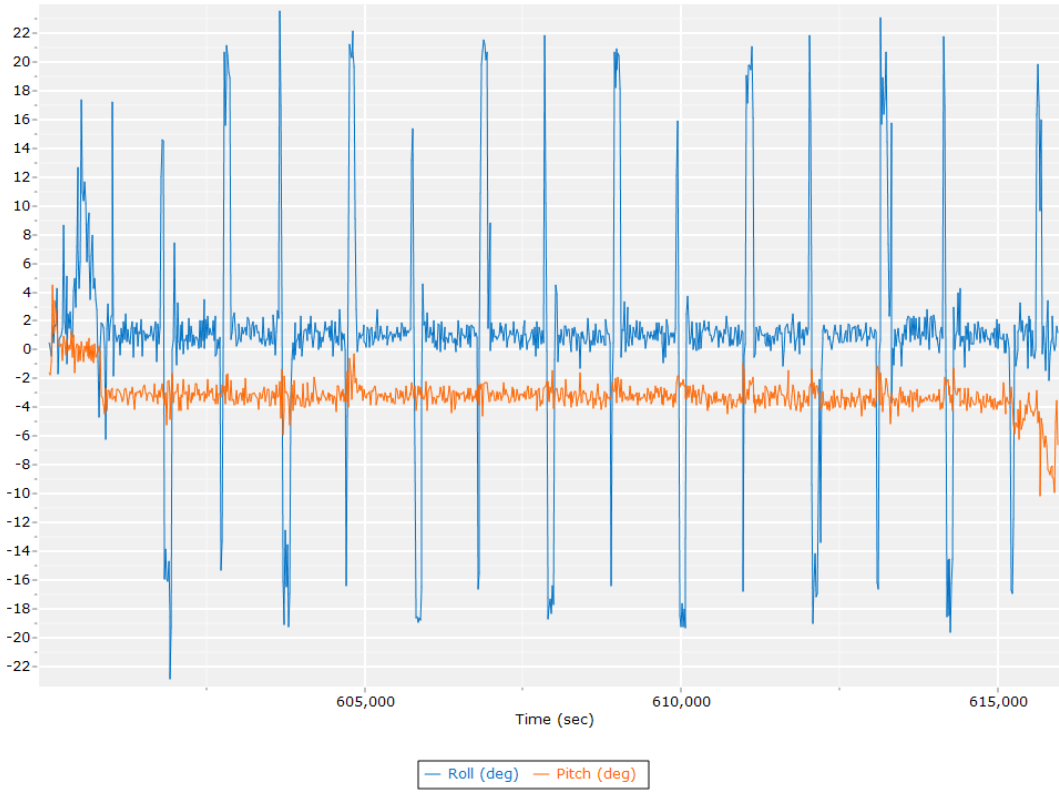
Top View



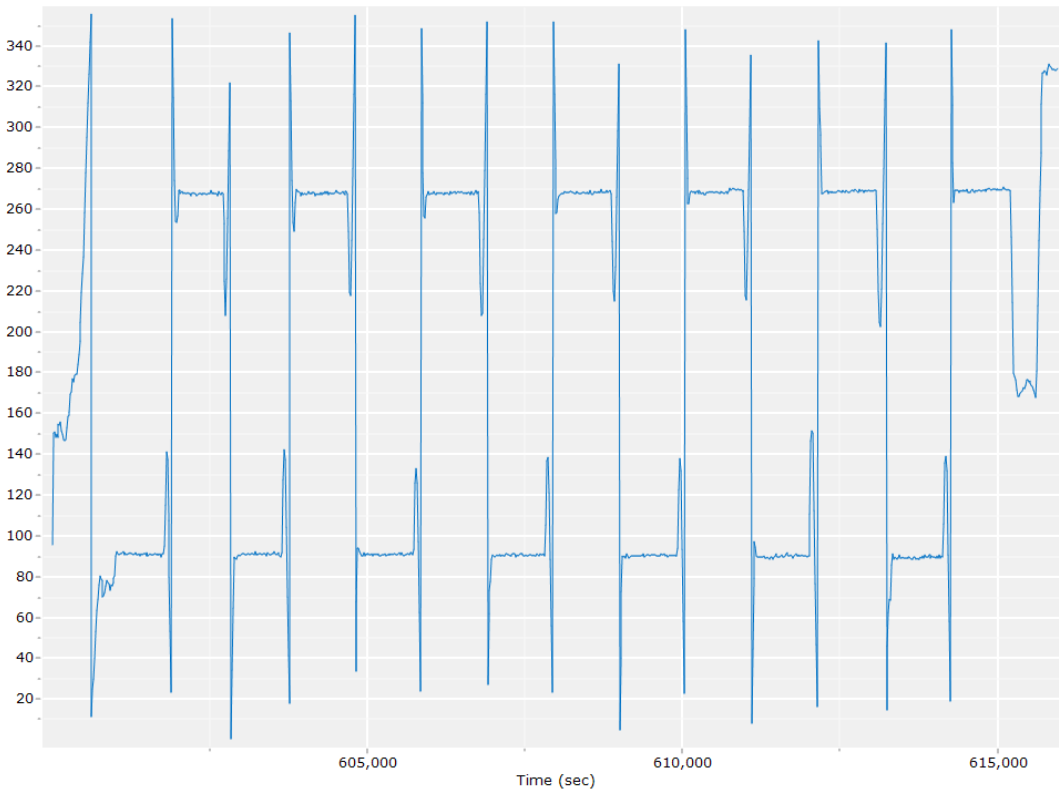
Altitude



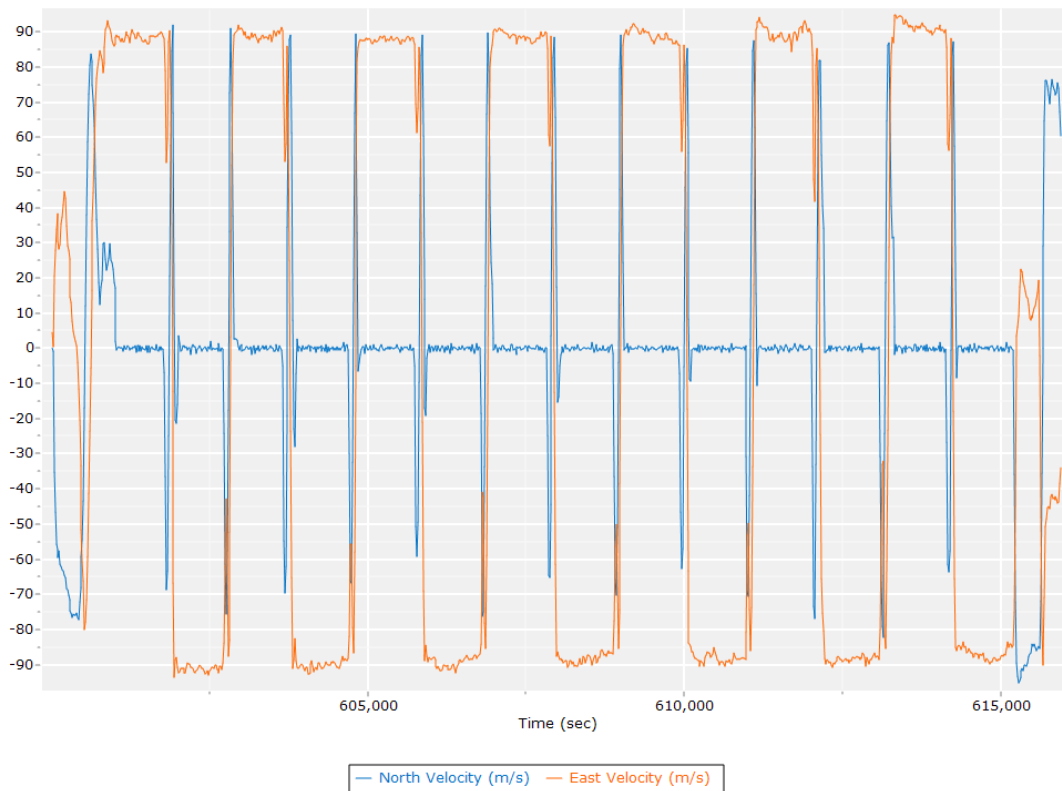
Roll/Pitch



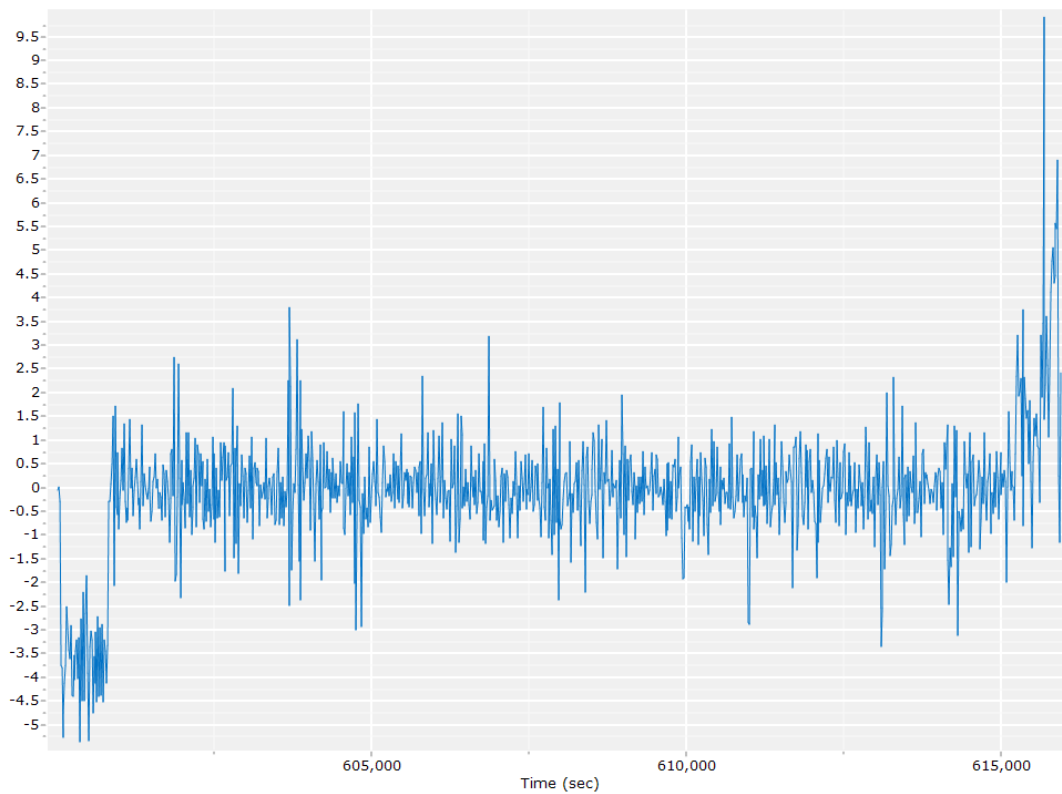
Heading



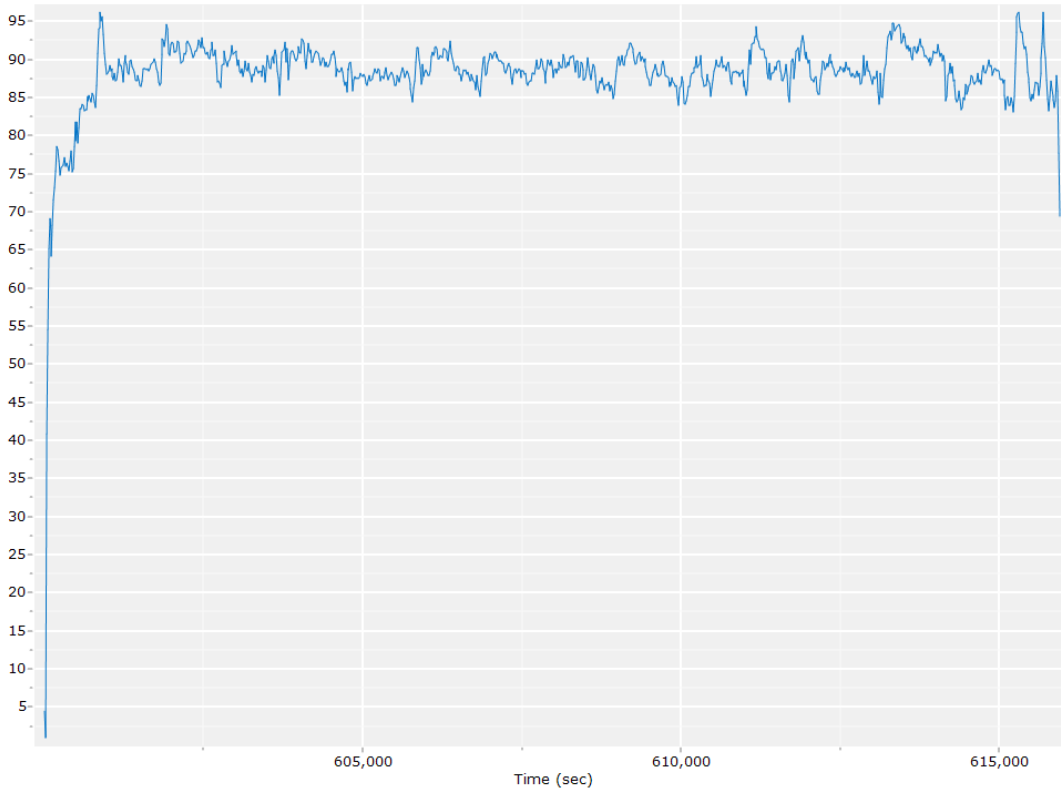
North/East Velocity



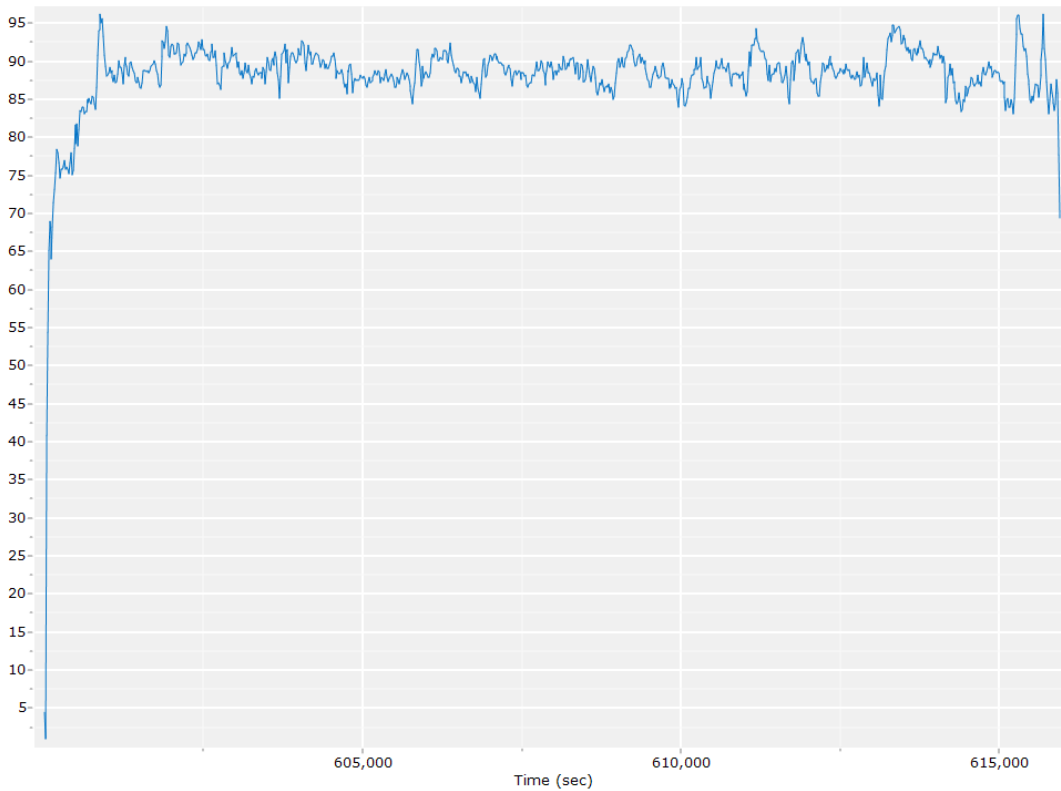
Down Velocity



Total Speed



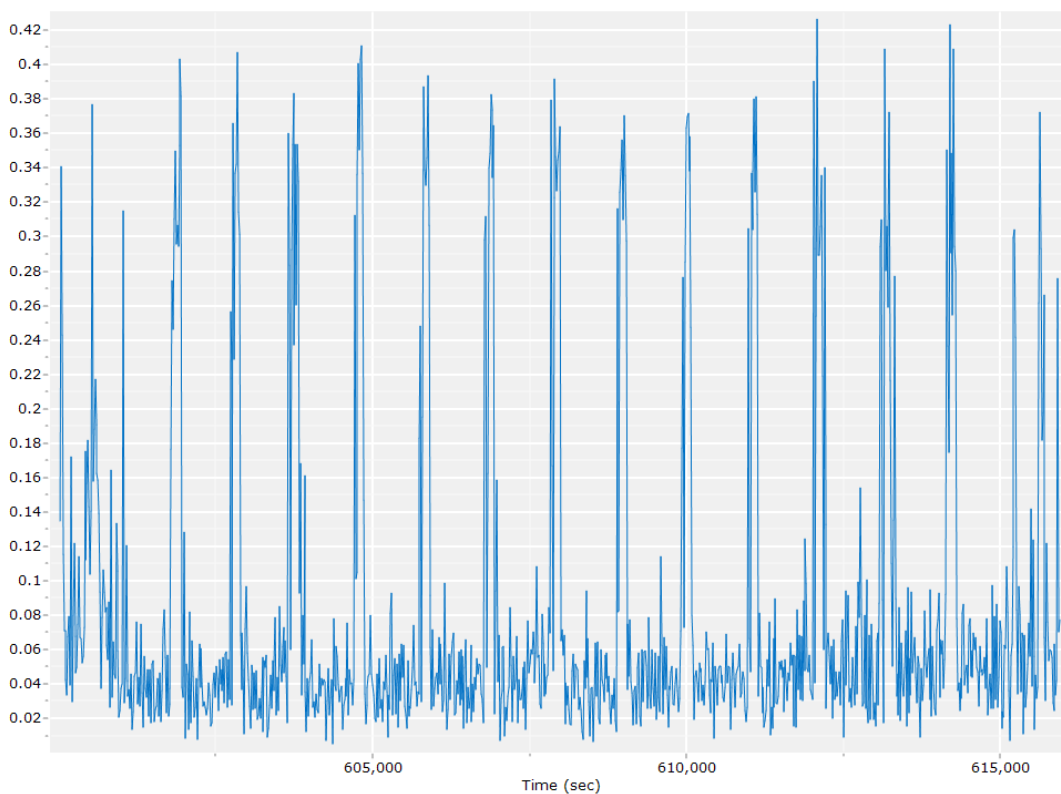
Ground Speed



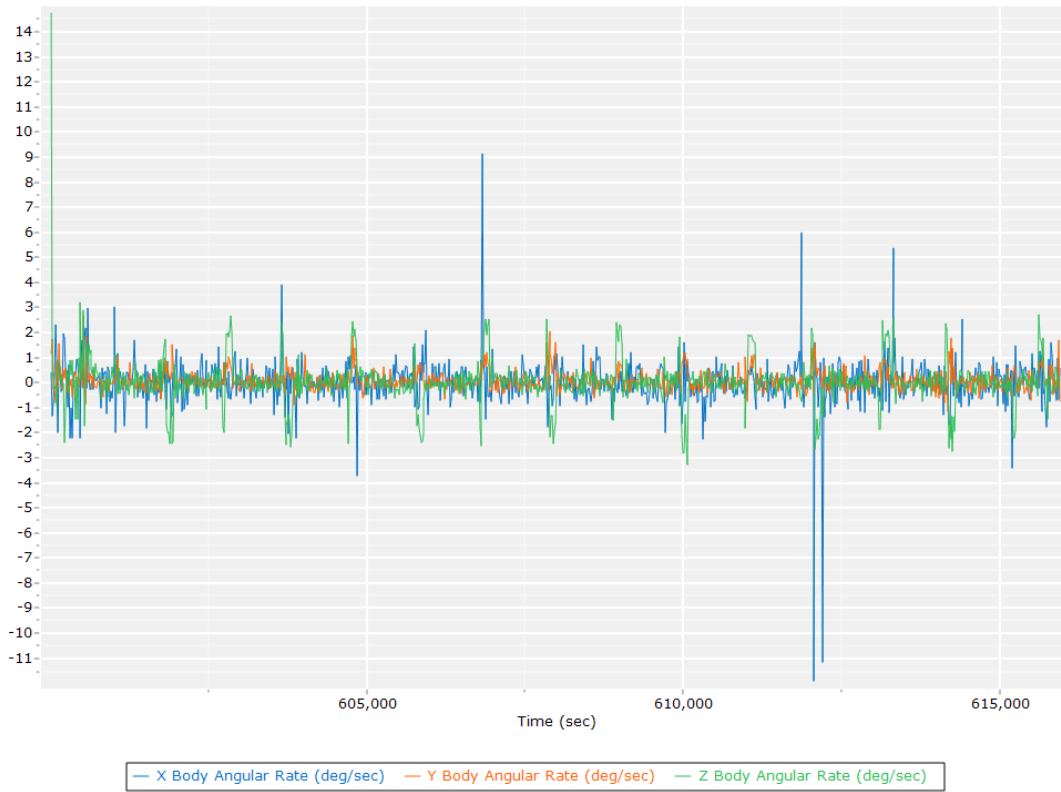
Body Acceleration



Total Body Acceleration

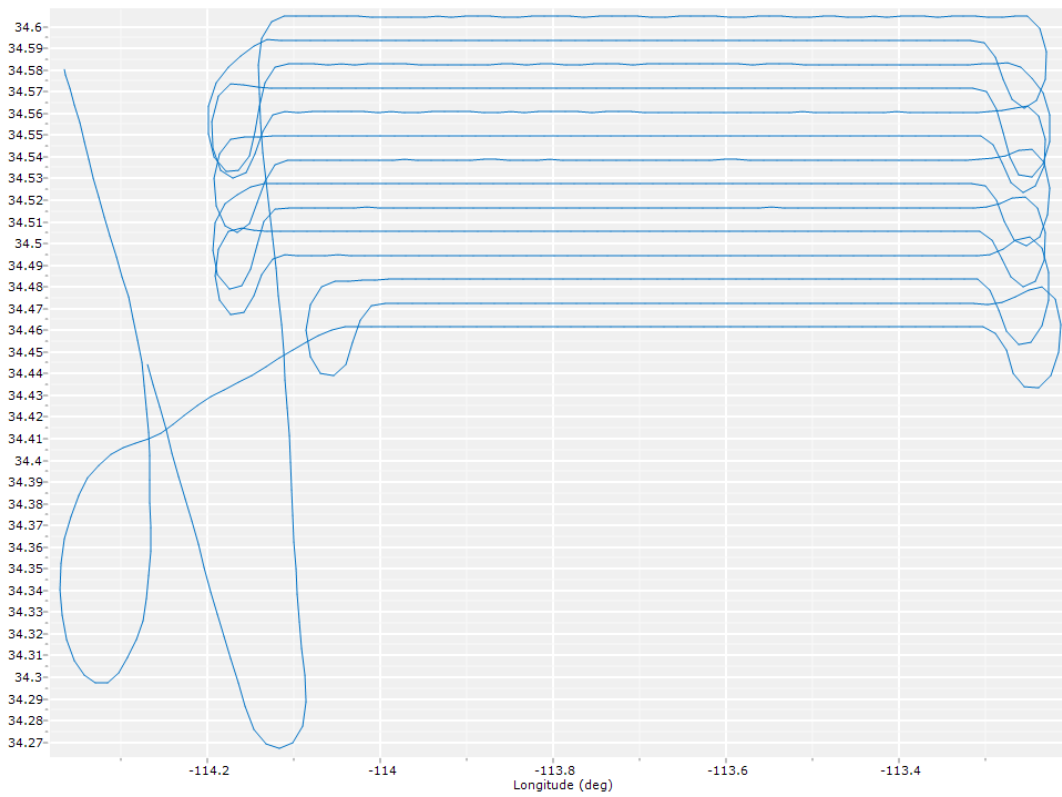


Body Angular Rate

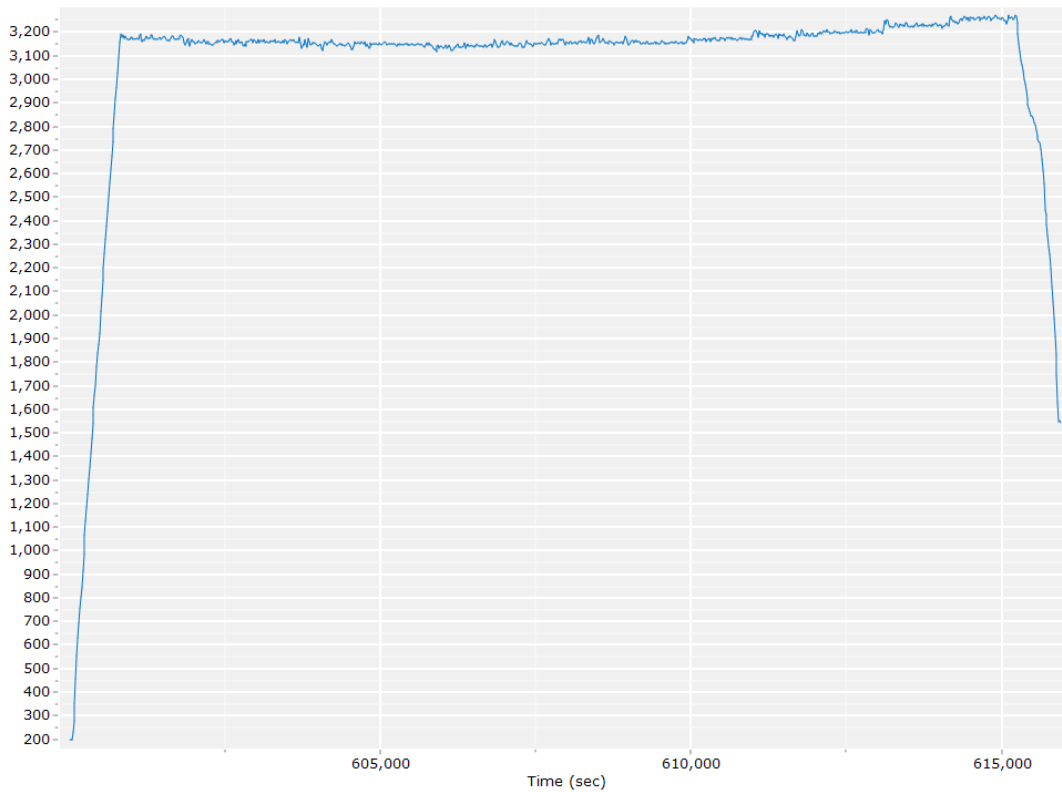


Forward Processed Trajectory Information

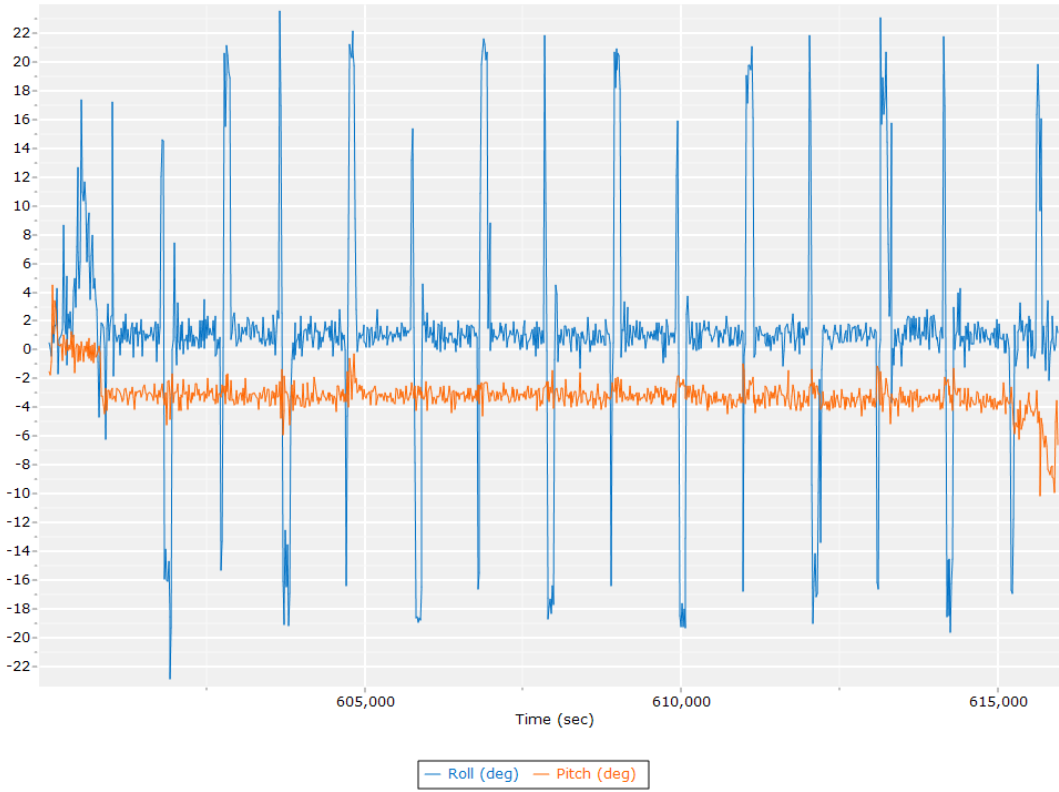
Top View



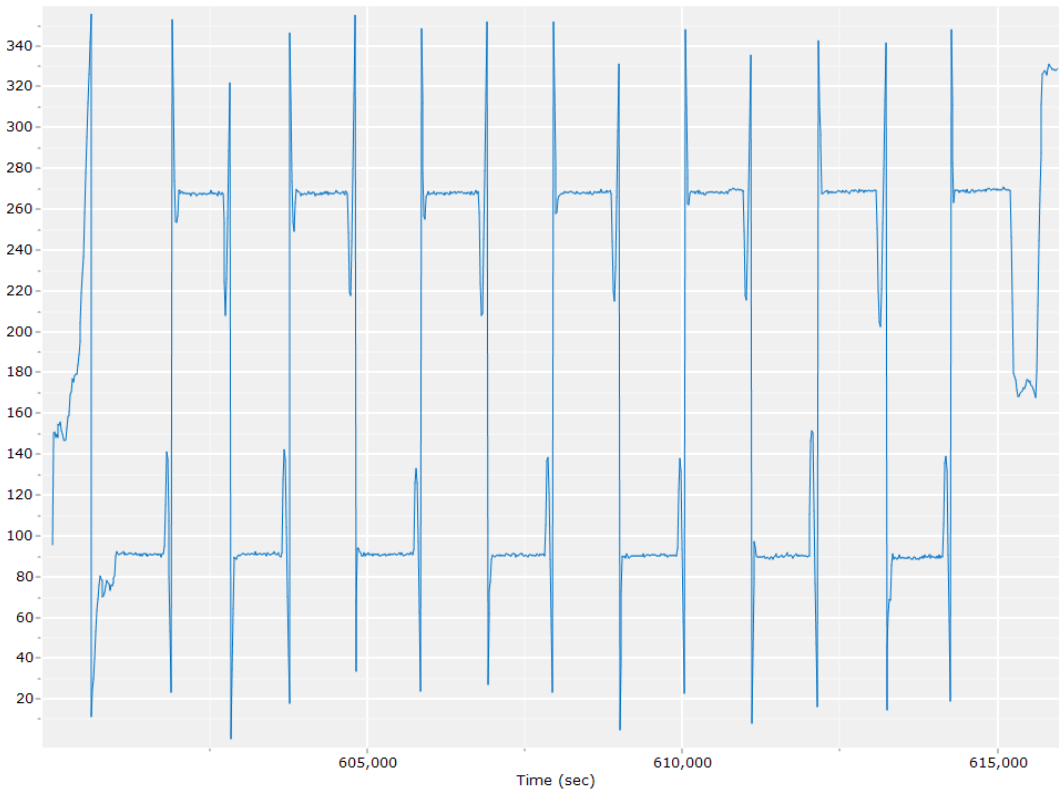
Altitude



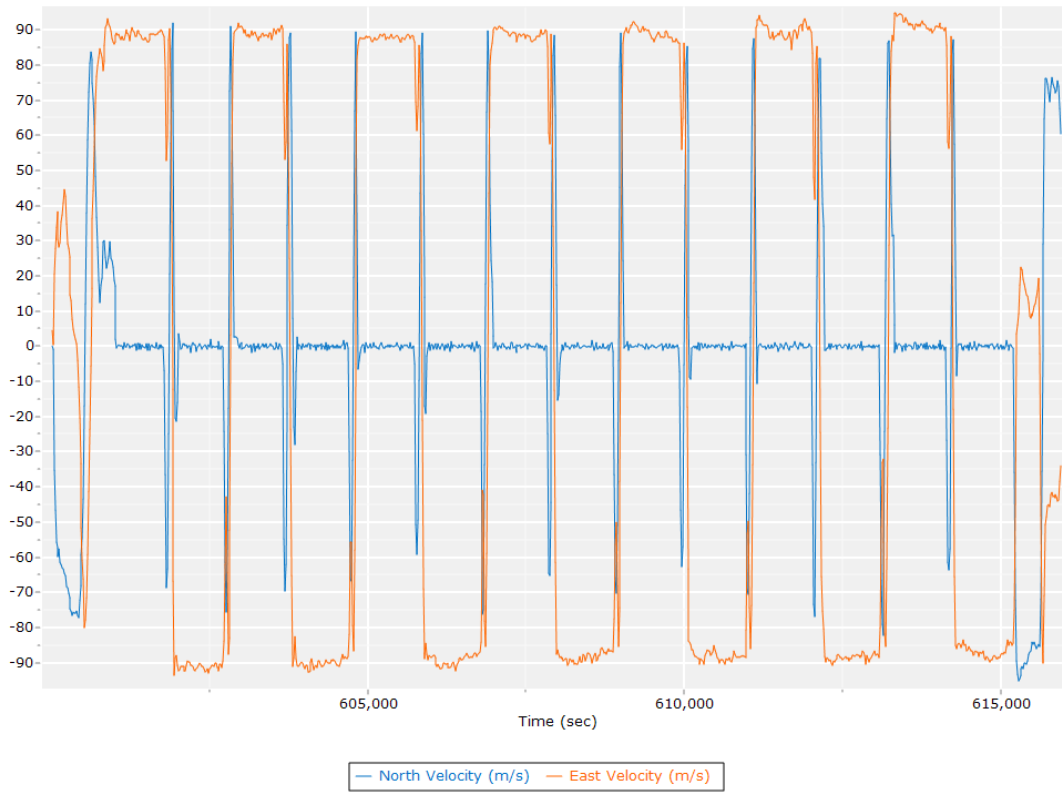
Roll/Pitch



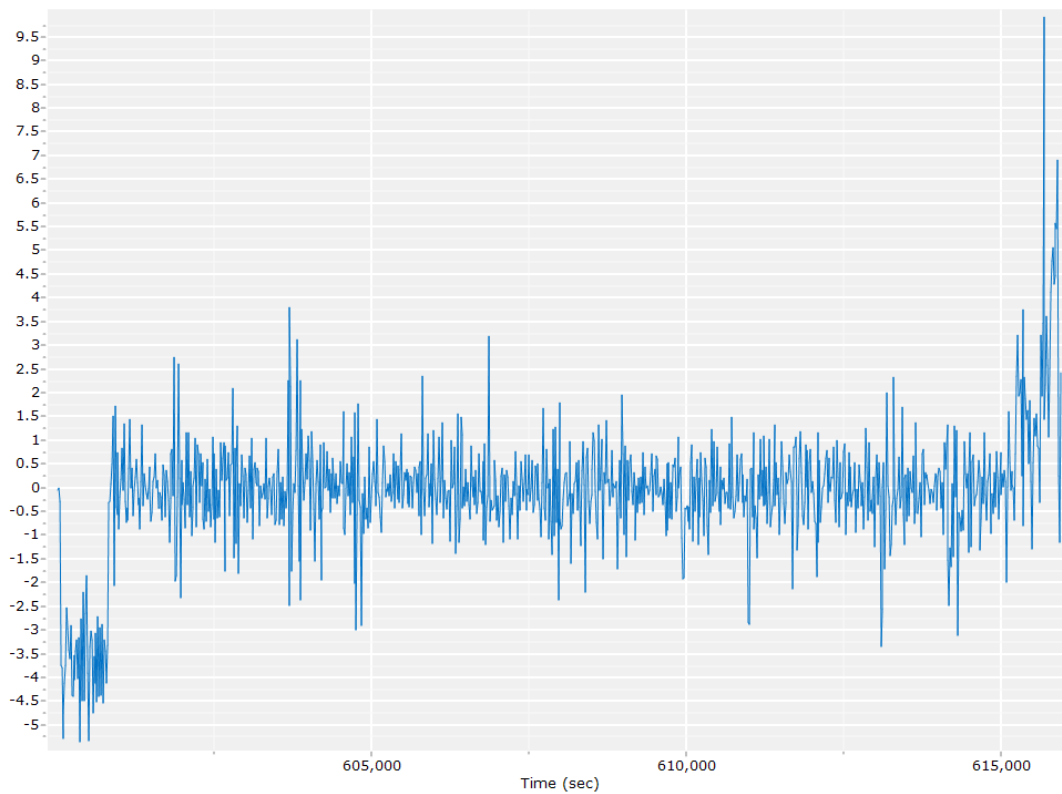
Heading



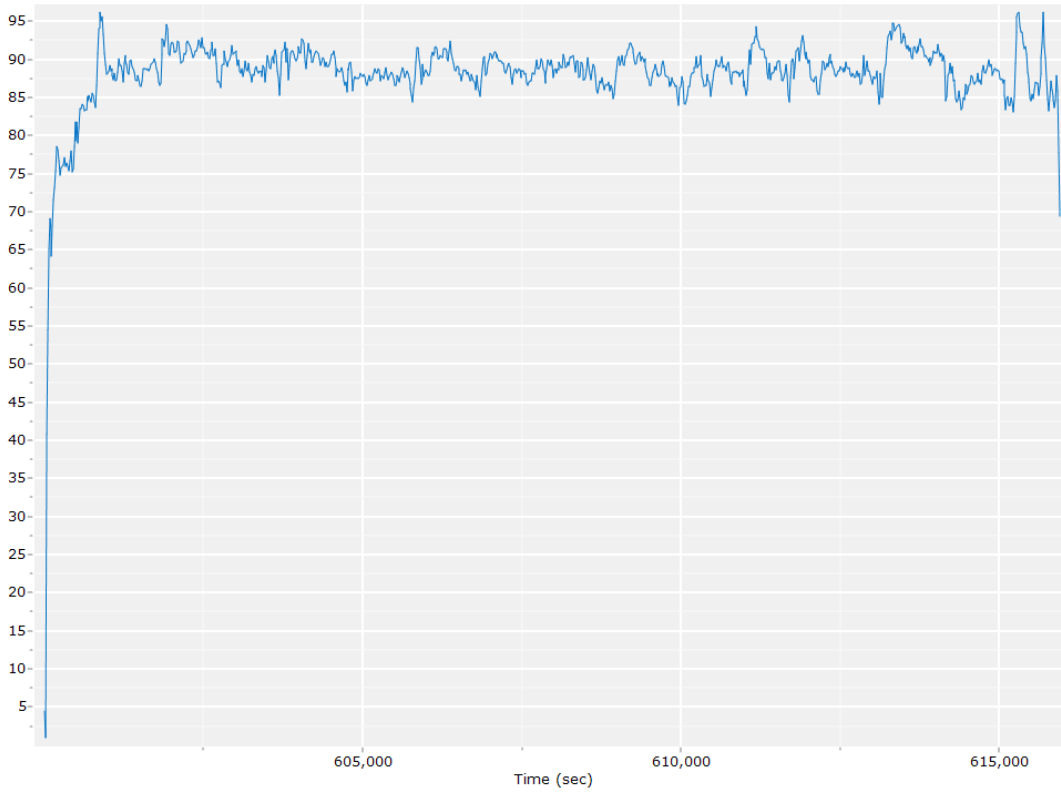
North/East Velocity



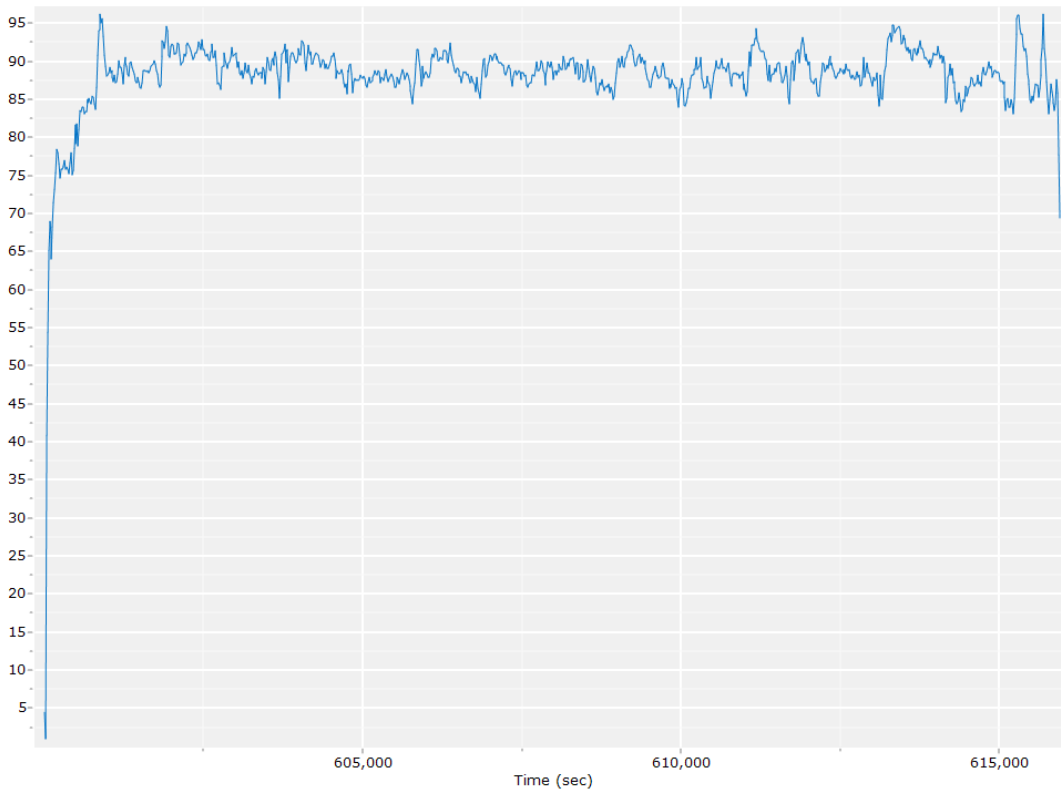
Down Velocity



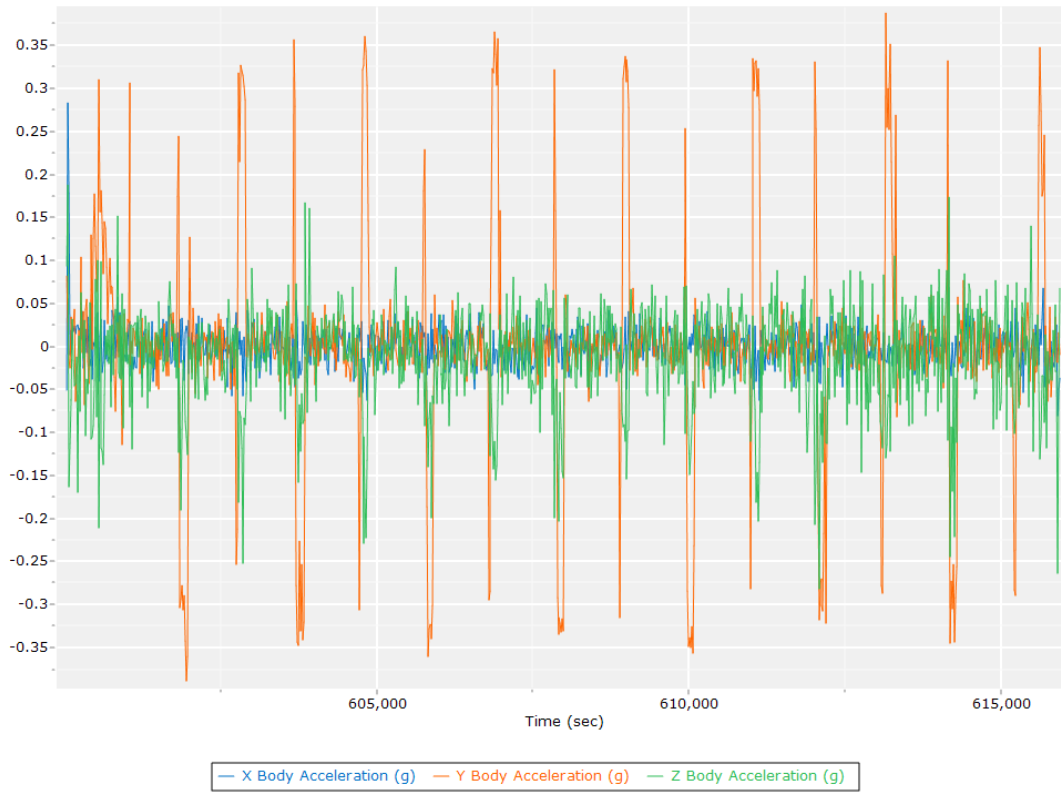
Total Speed



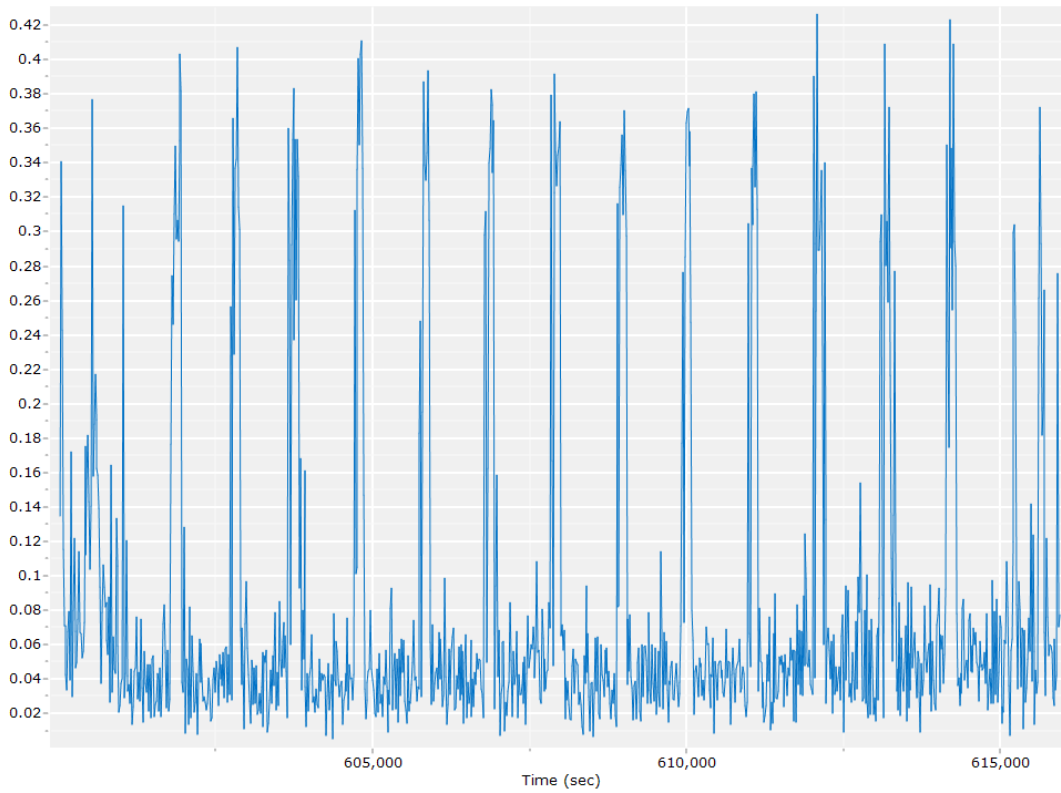
Ground Speed



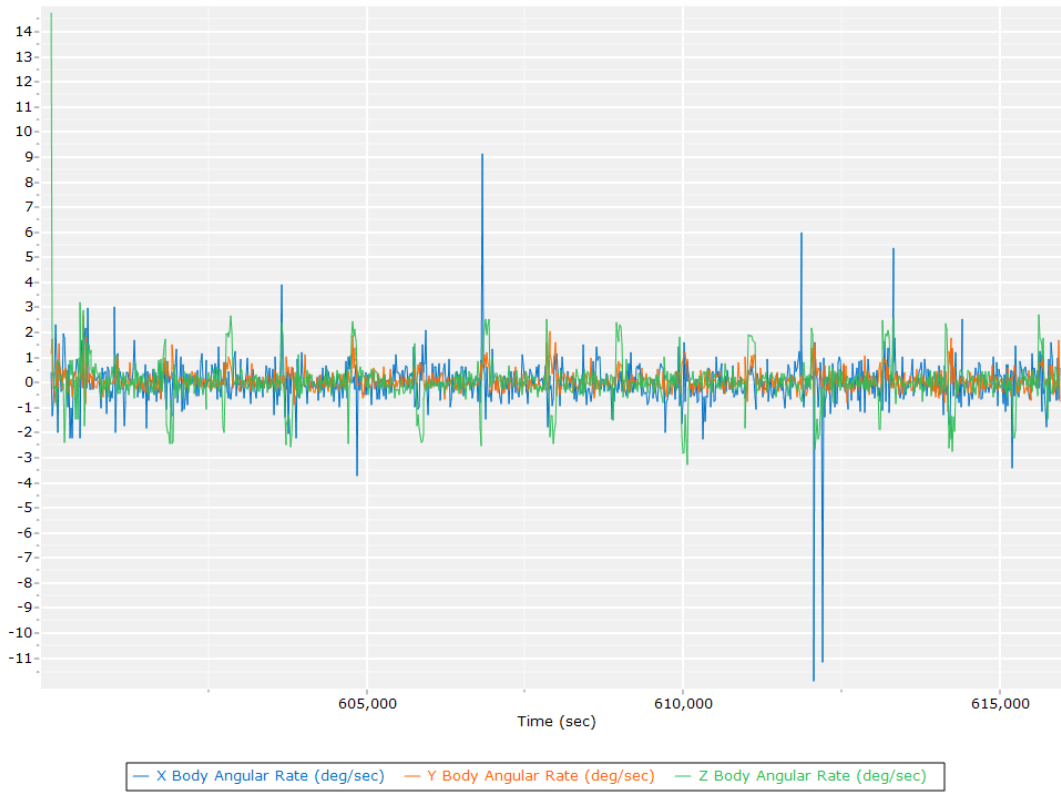
Body Acceleration



Total Body Acceleration



Body Angular Rate



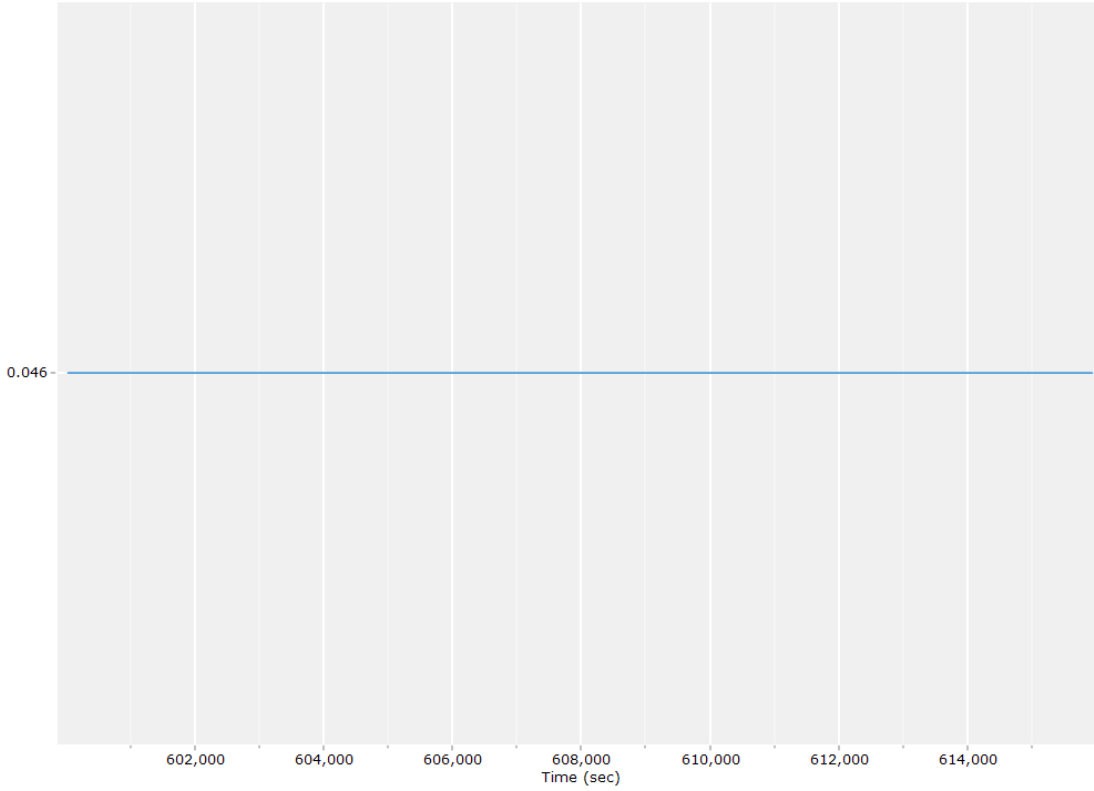
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	599745.000 (04/01/2023 22:35:45)		
Processing end time	11159.154 (04/02/2023 03:05:59)		
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)	0.046	-0.153	-0.934
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

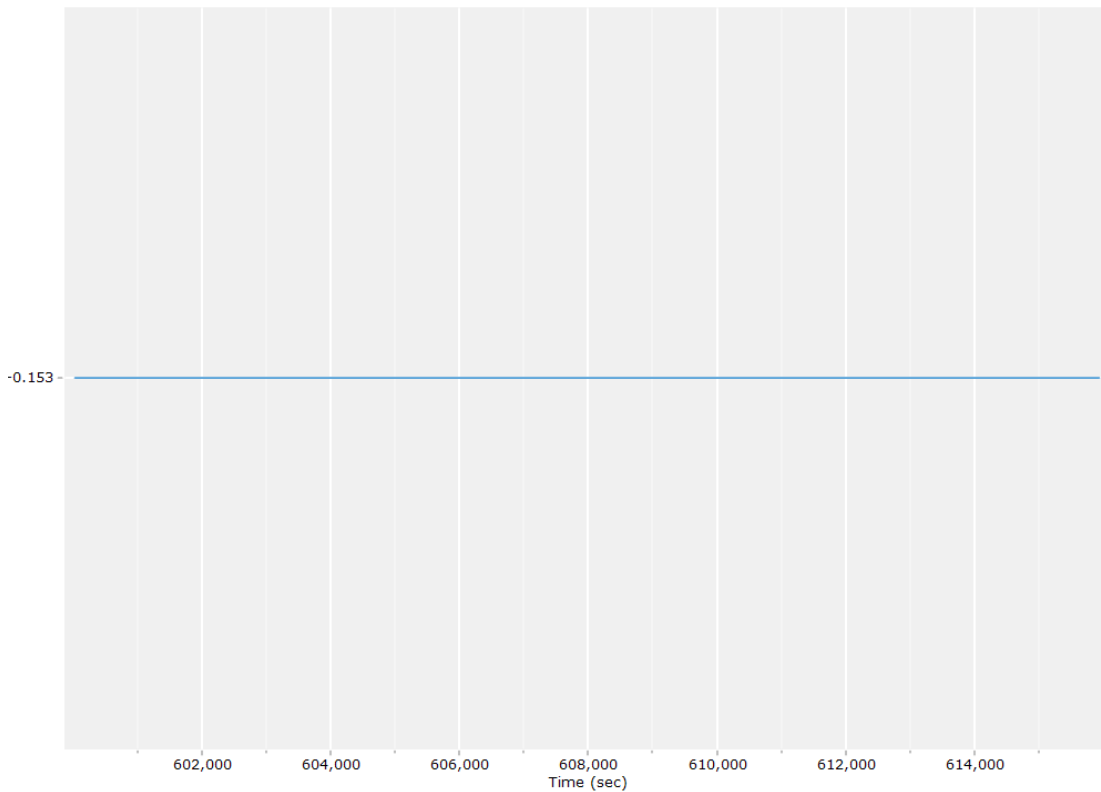
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

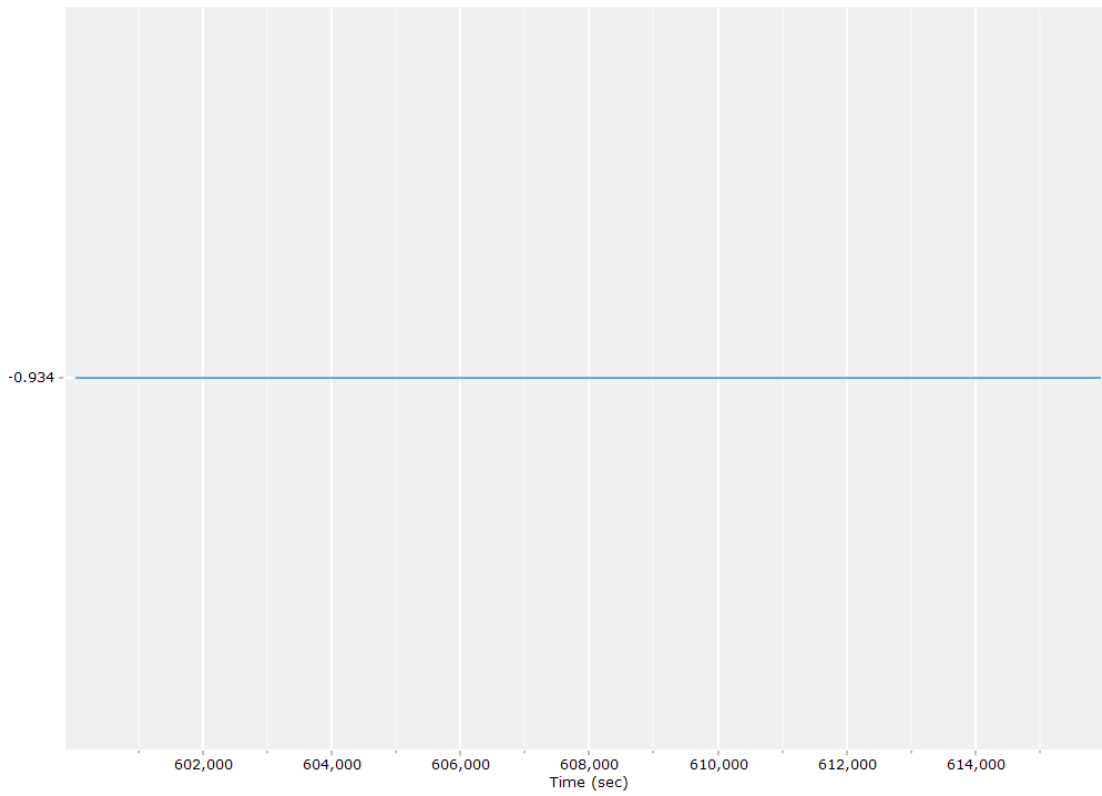
X Reference-Primary GNSS Lever Arm (m)



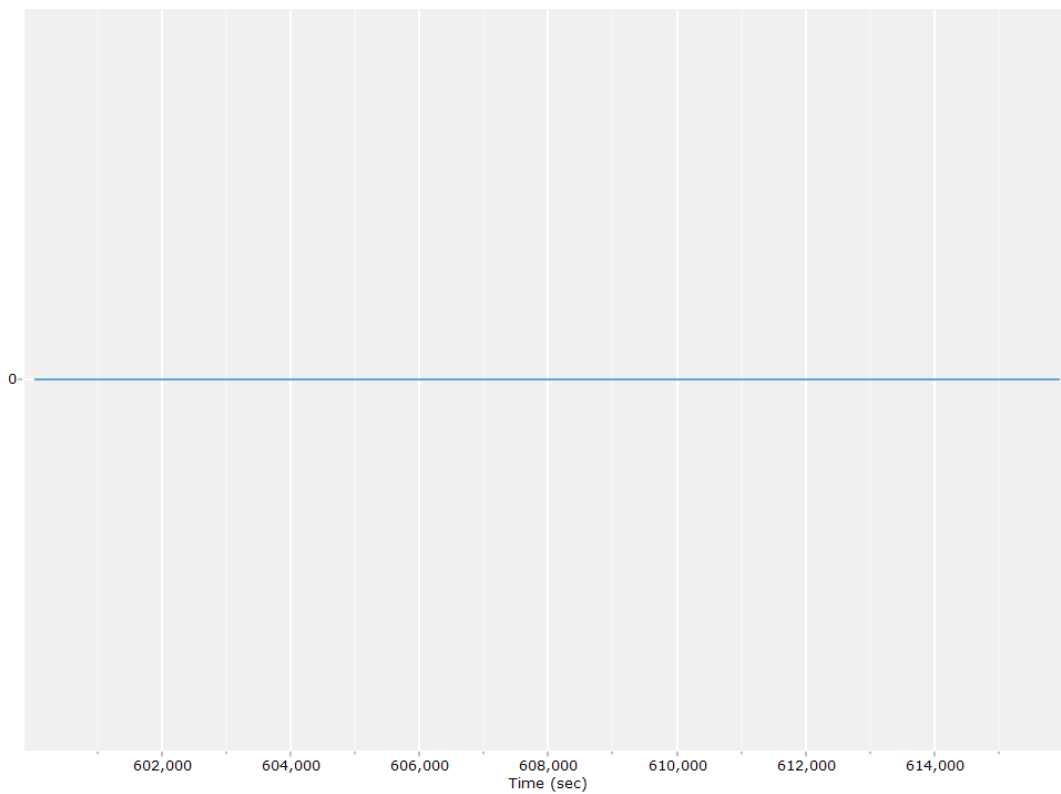
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



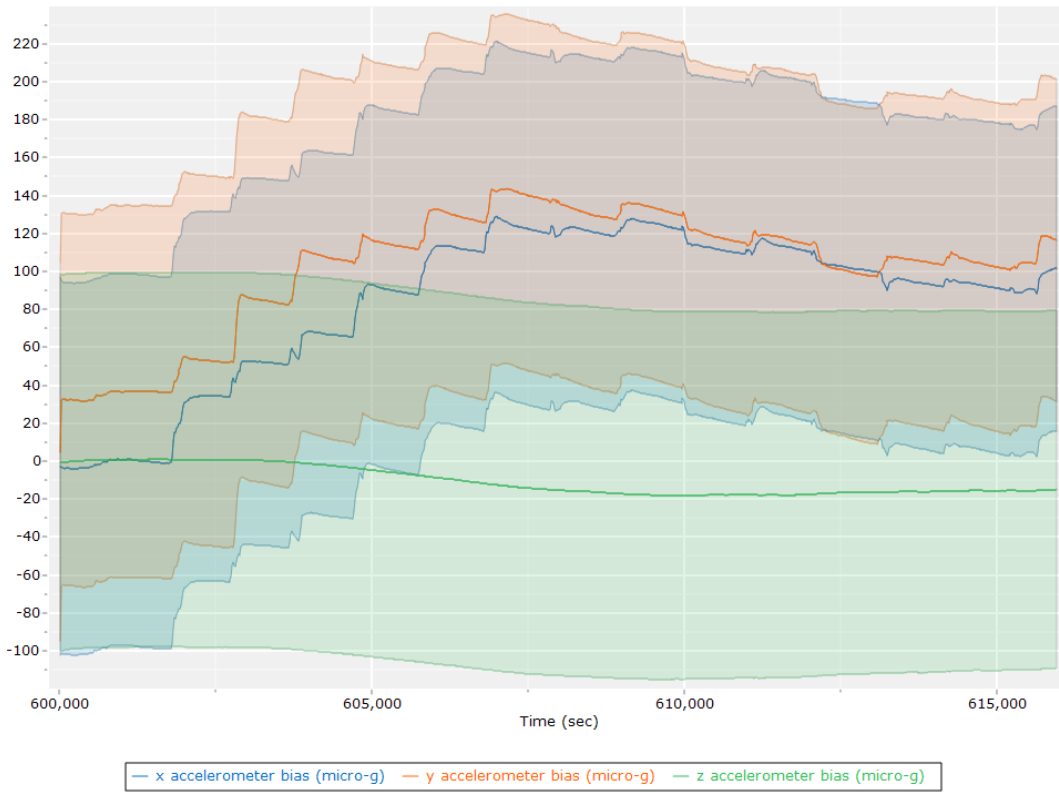
Reference-Primary GNSS Lever Arm Figure of Merit



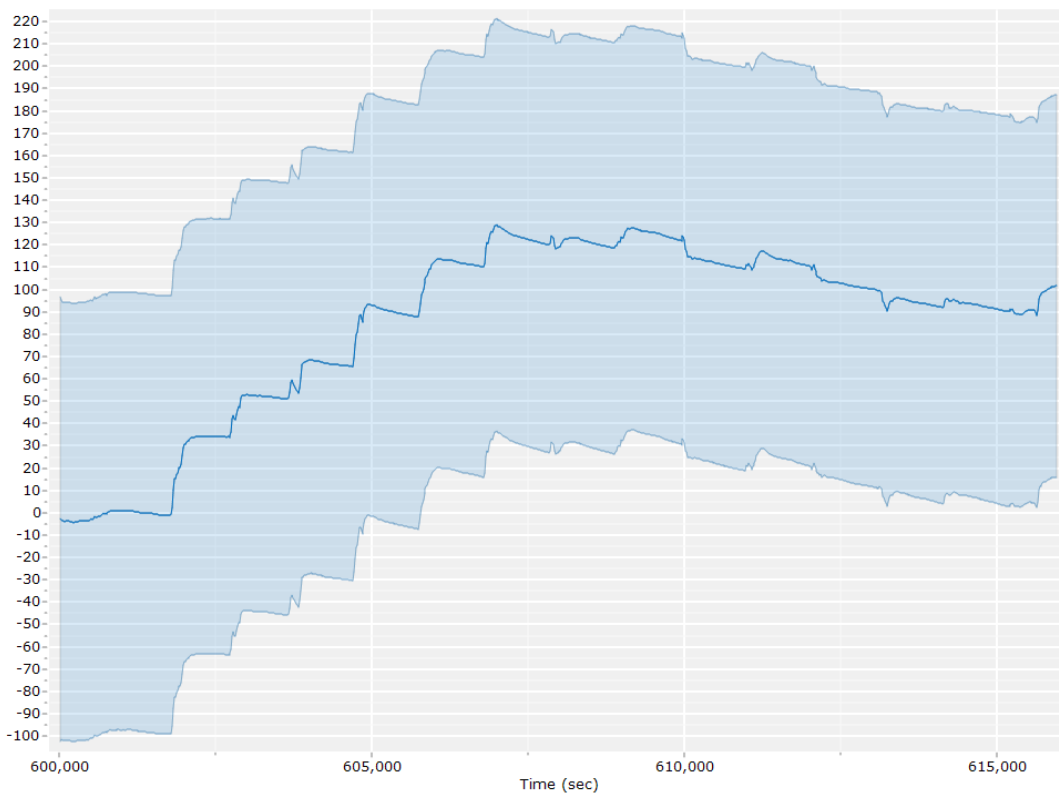
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

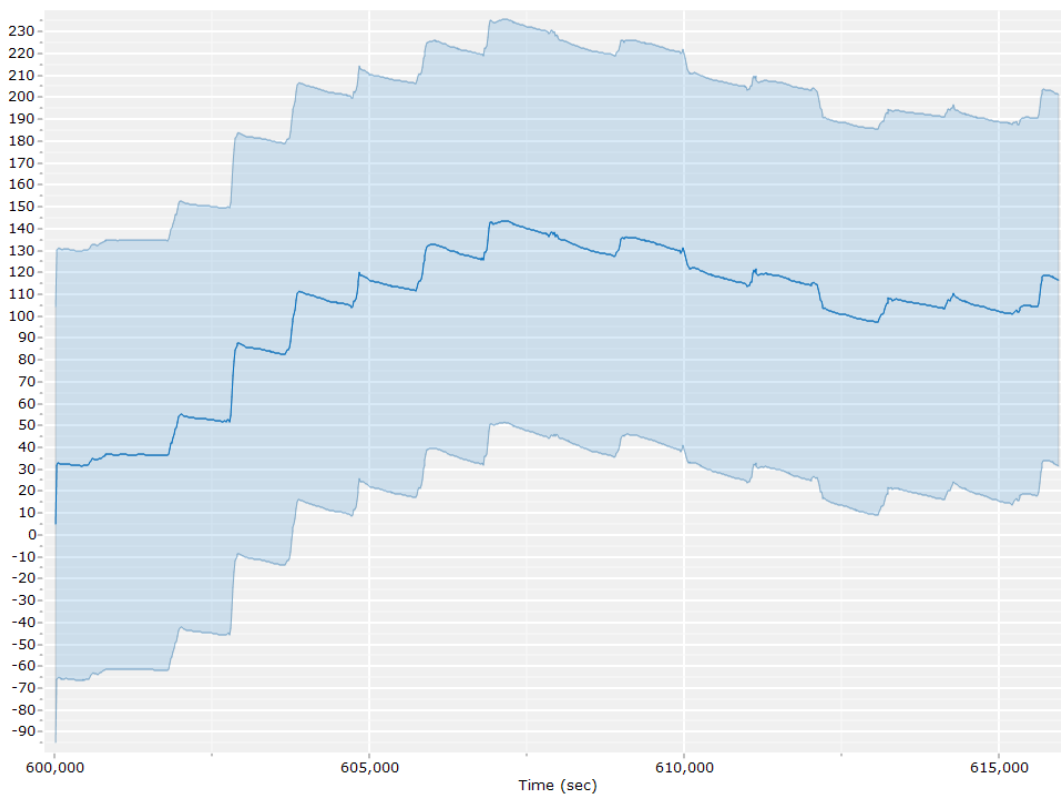
Accelerometer Bias (micro-g)



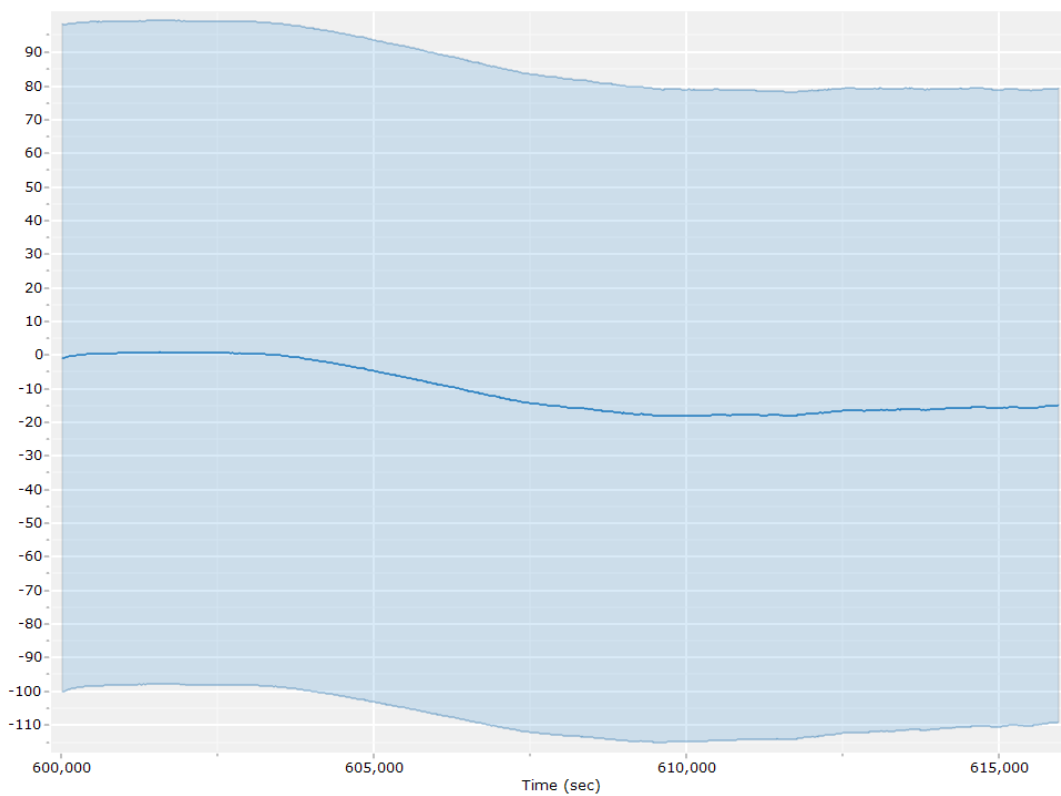
X Accelerometer Bias (micro-g)



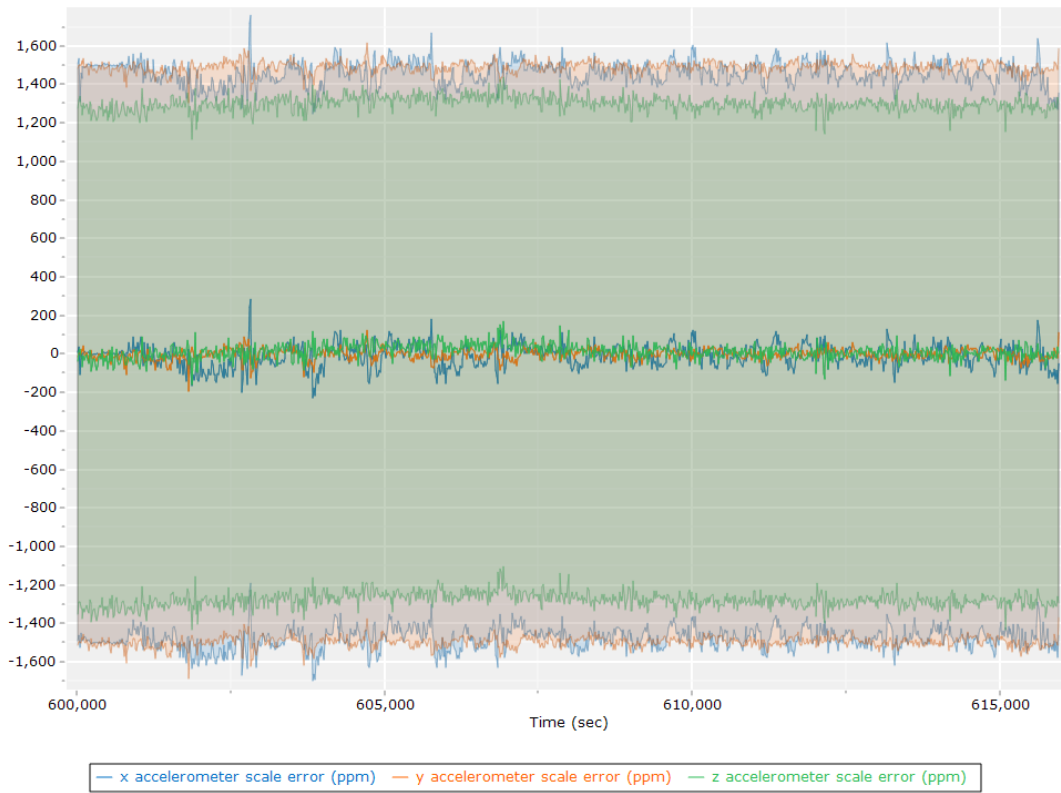
Y Accelerometer Bias (micro-g)



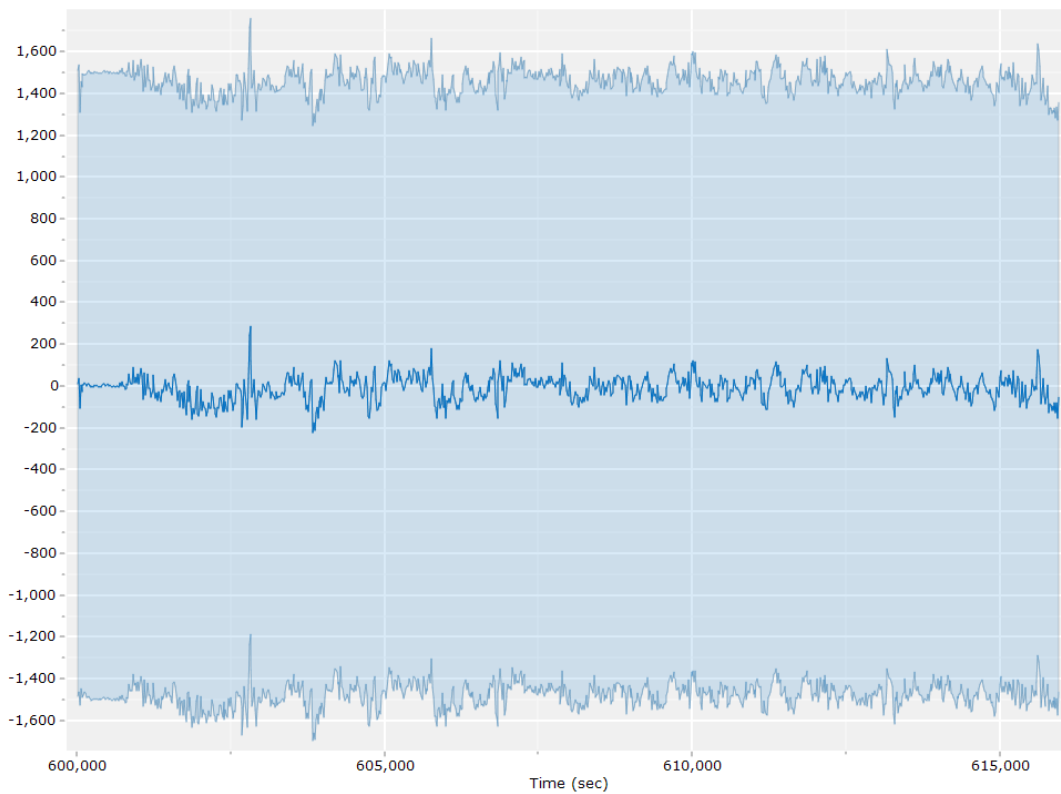
Z Accelerometer Bias (micro-g)



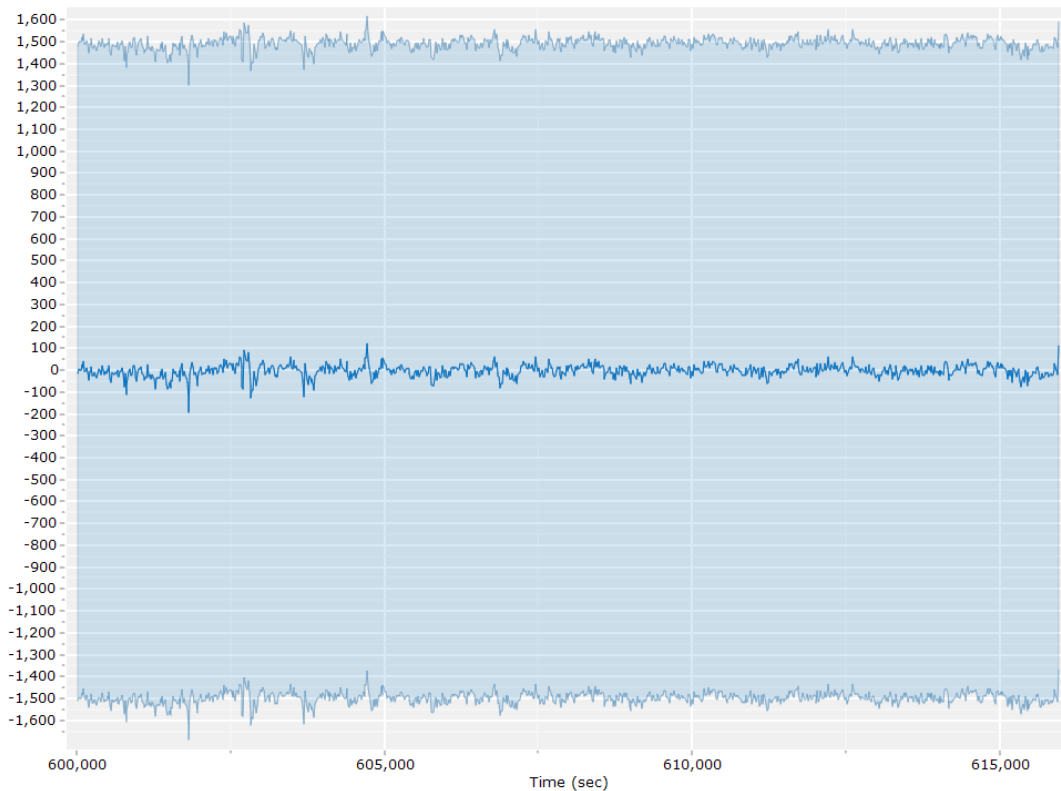
Accelerometer Scale Error (ppm)



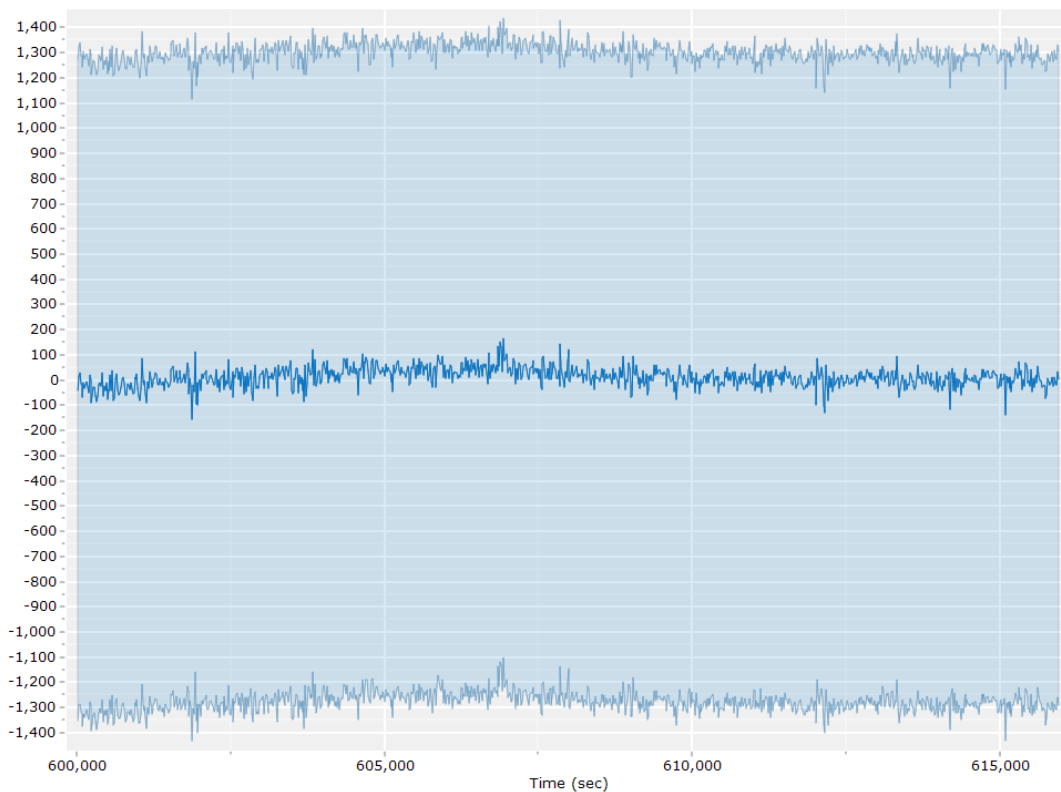
X Accelerometer Scale Error (ppm)



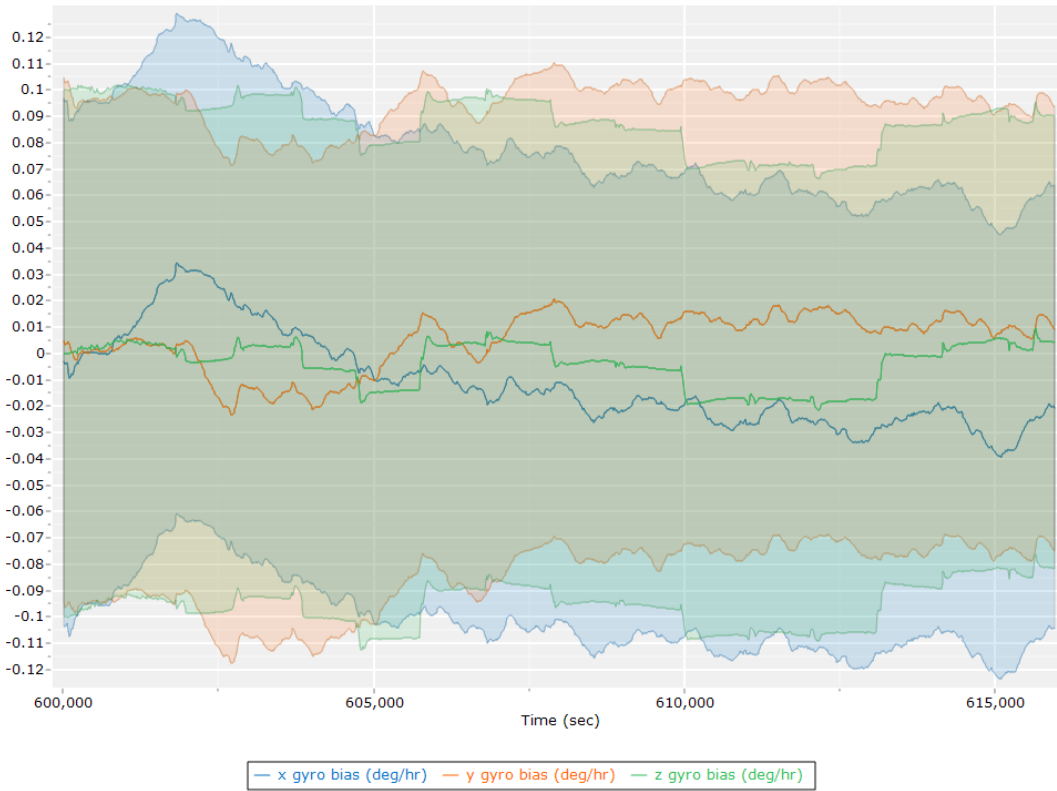
Y Accelerometer Scale Error (ppm)



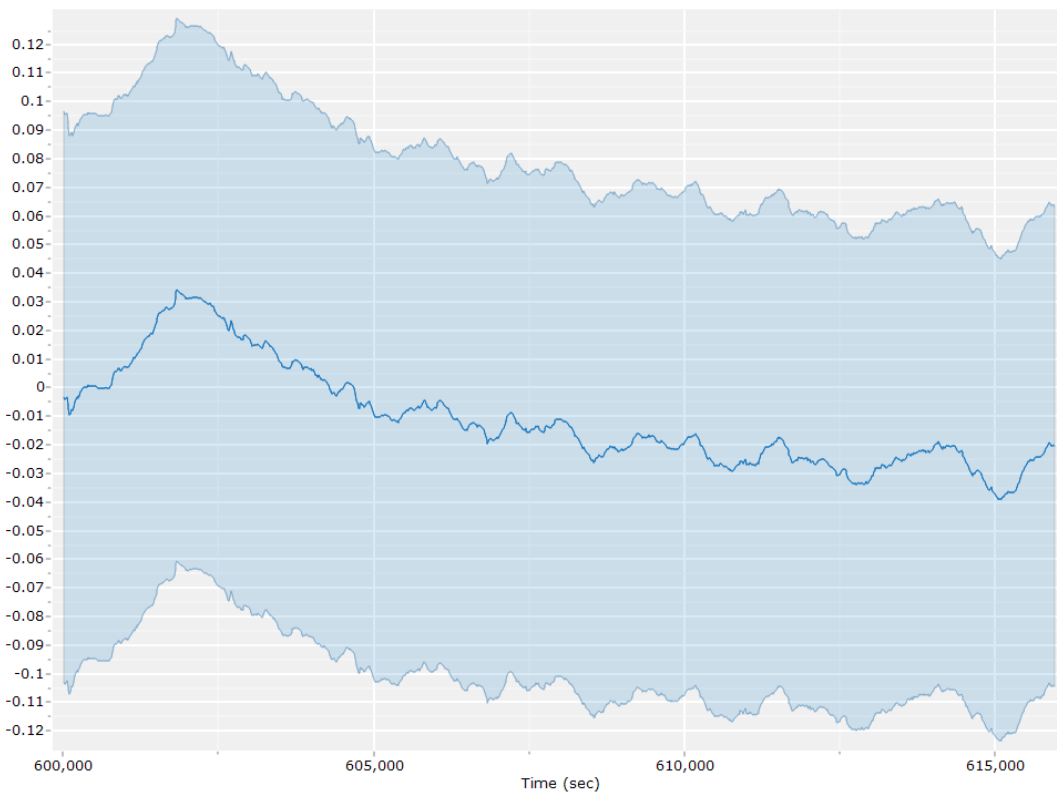
Z Accelerometer Scale Error (ppm)



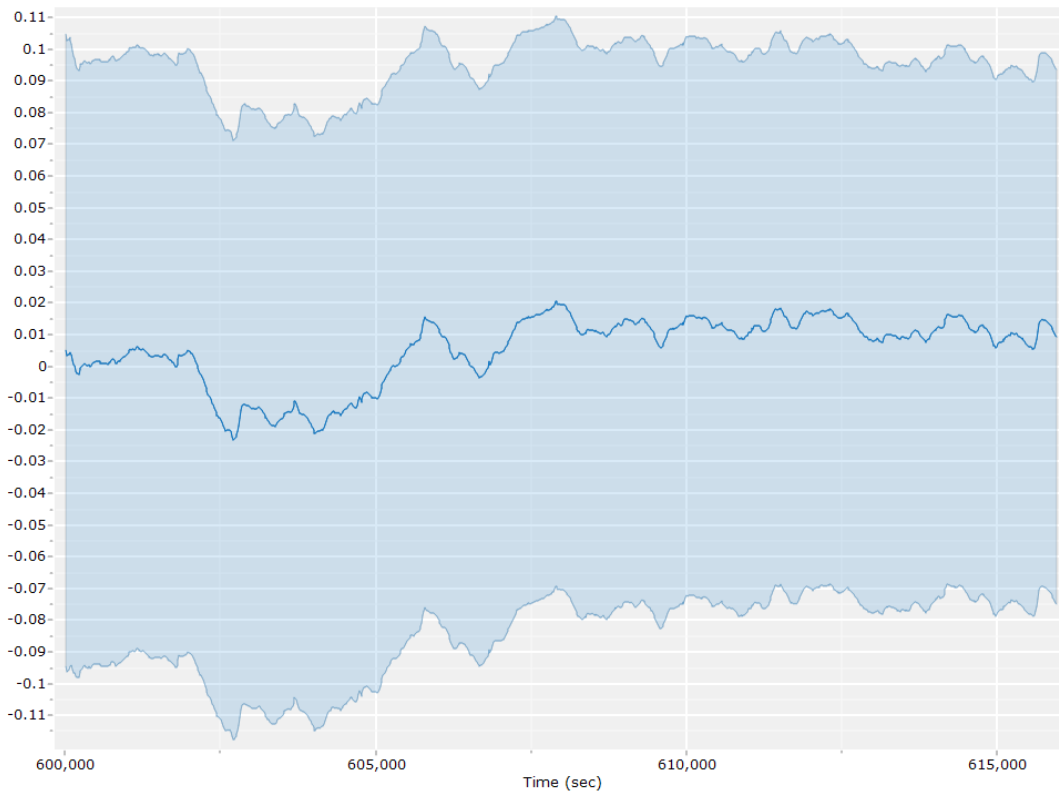
Gyro Bias (deg/h)



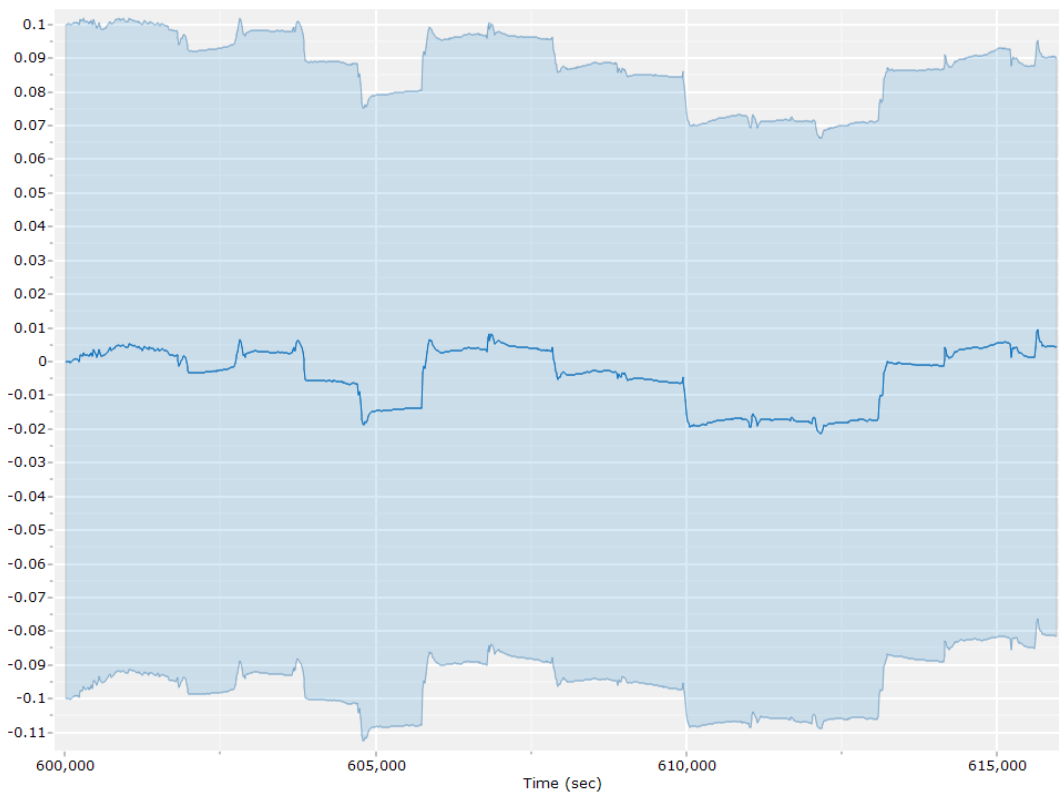
X Gyro Bias (deg/h)



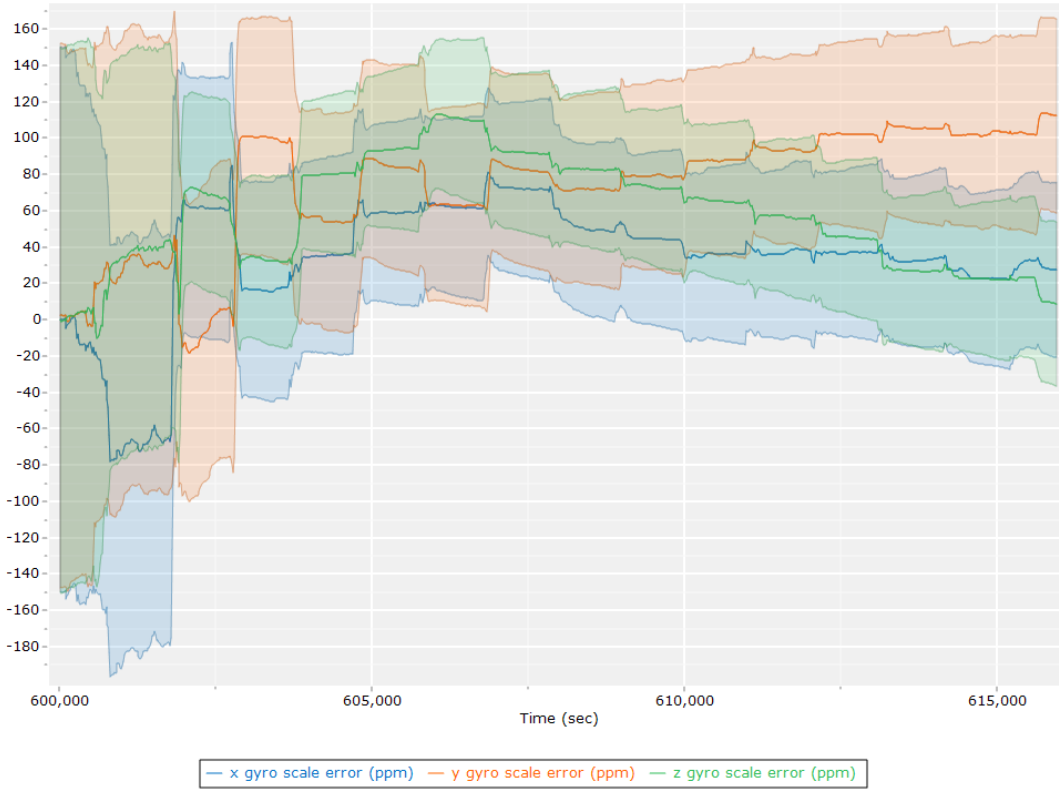
Y Gyro Bias (deg/h)



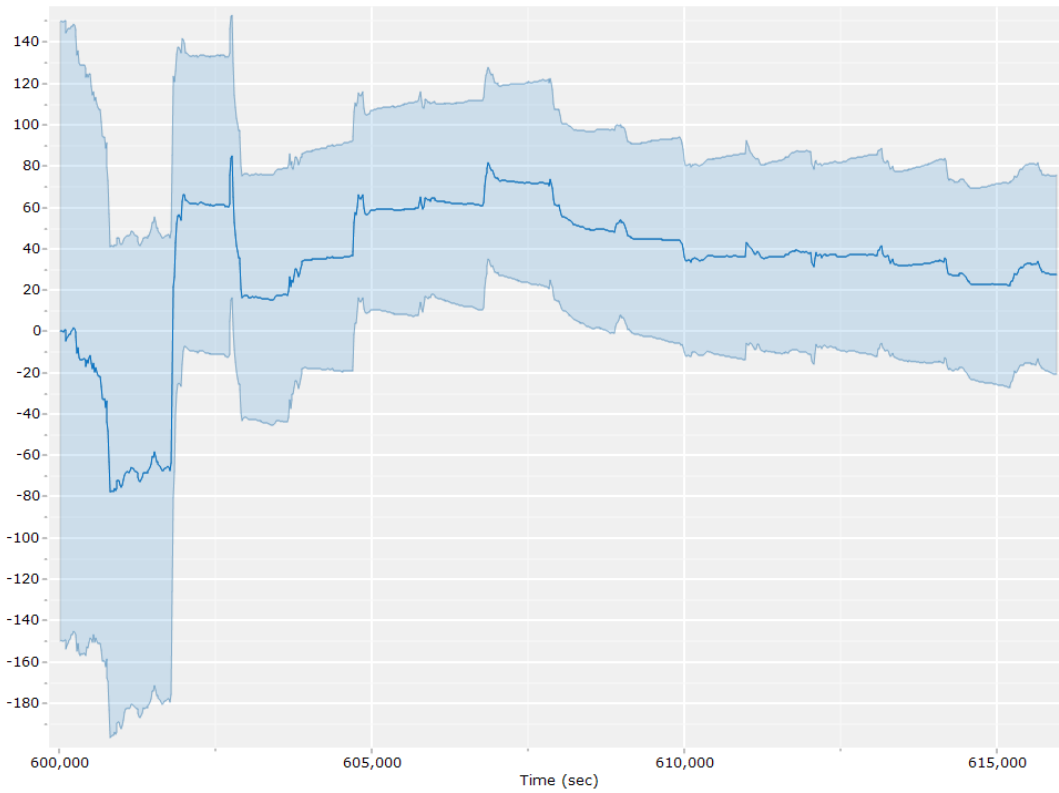
Z Gyro Bias (deg/h)



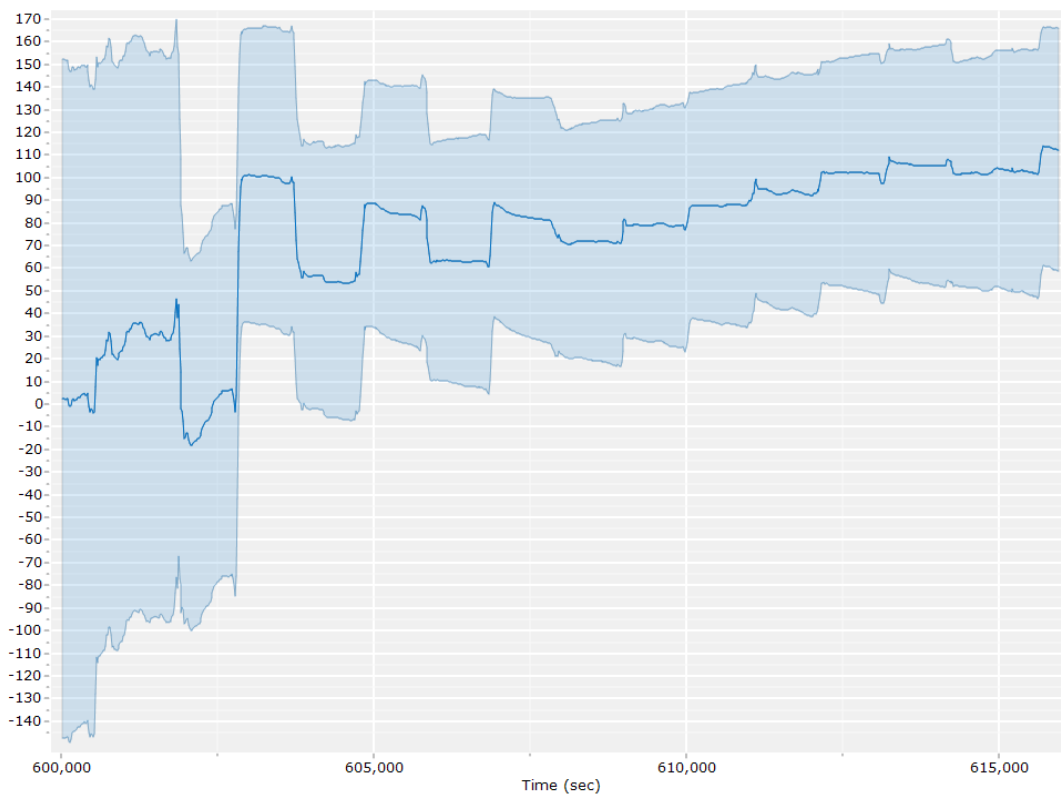
Gyro Scale Error (ppm)



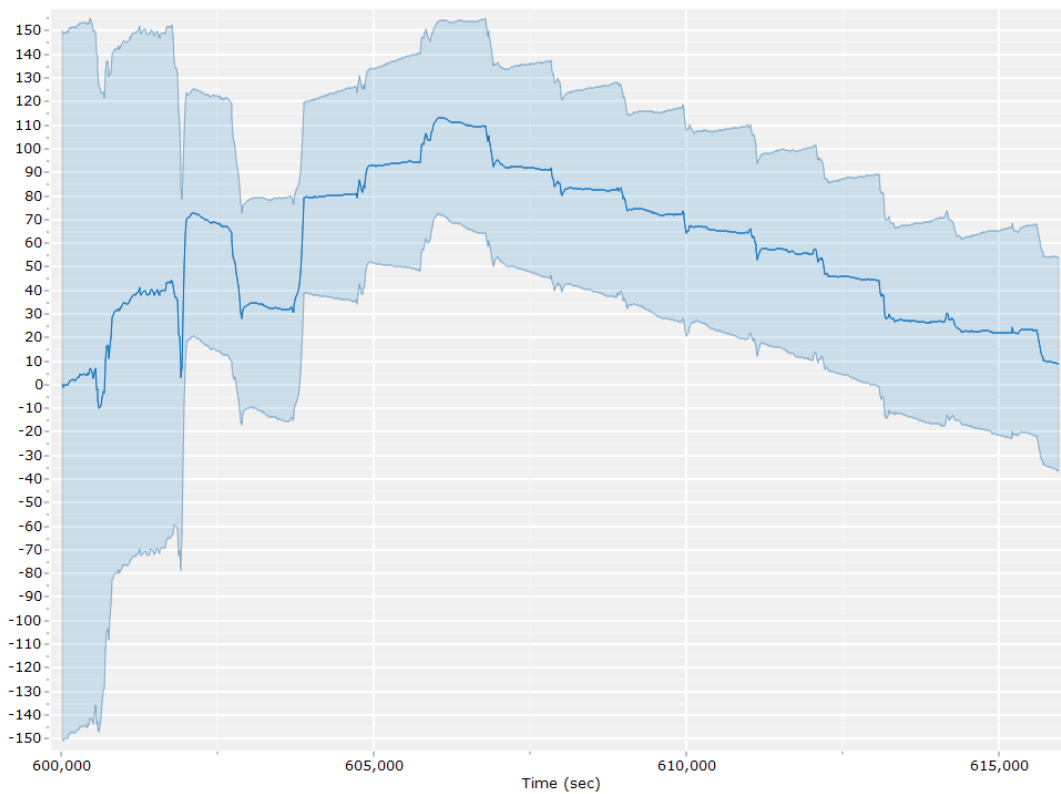
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

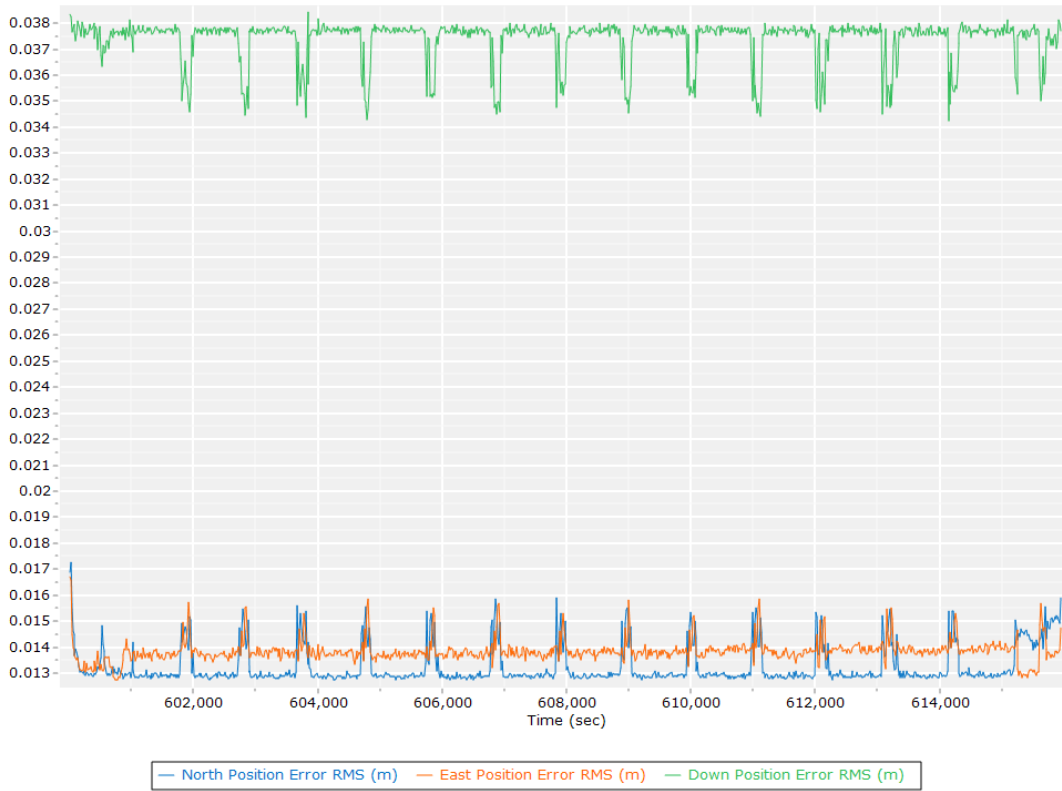


Z Gyro Scale Error (ppm)

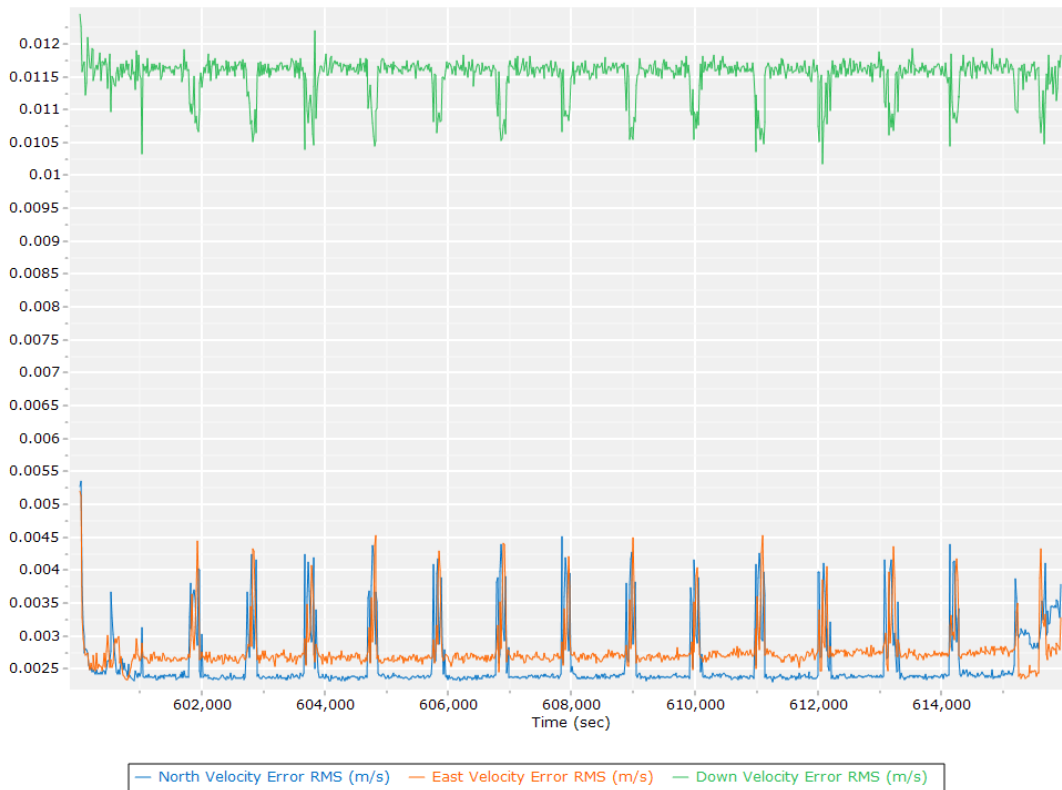


Smoothed Performance Metrics

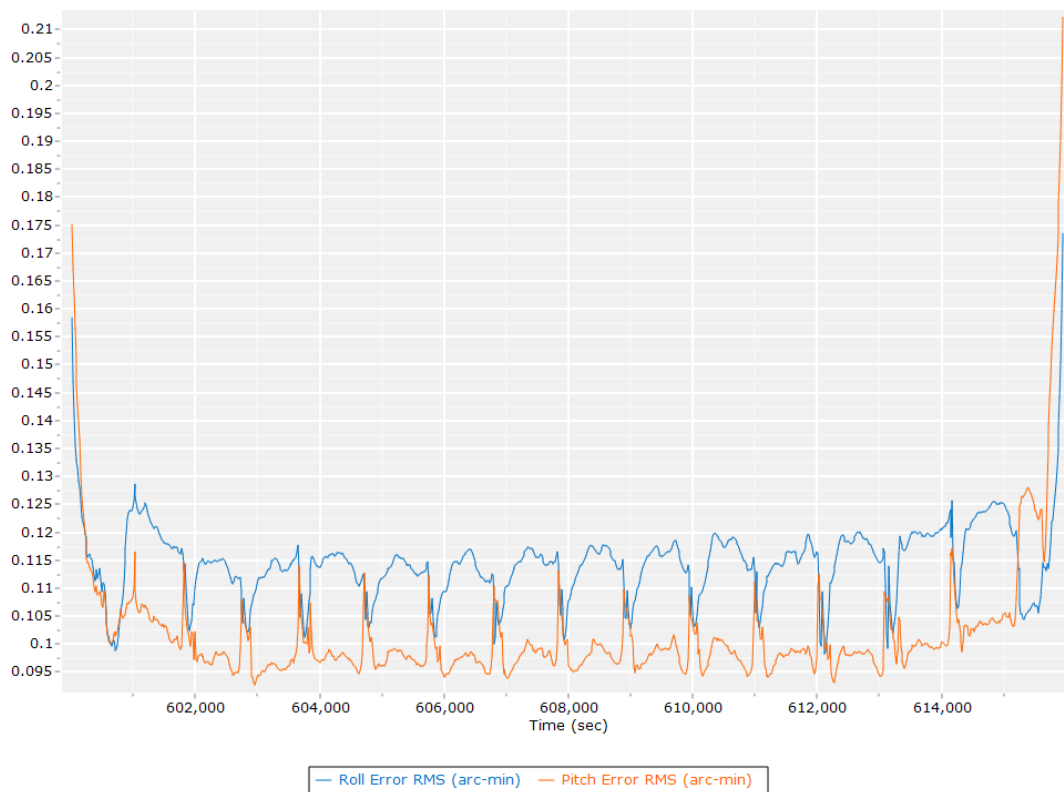
Position Error RMS (m)



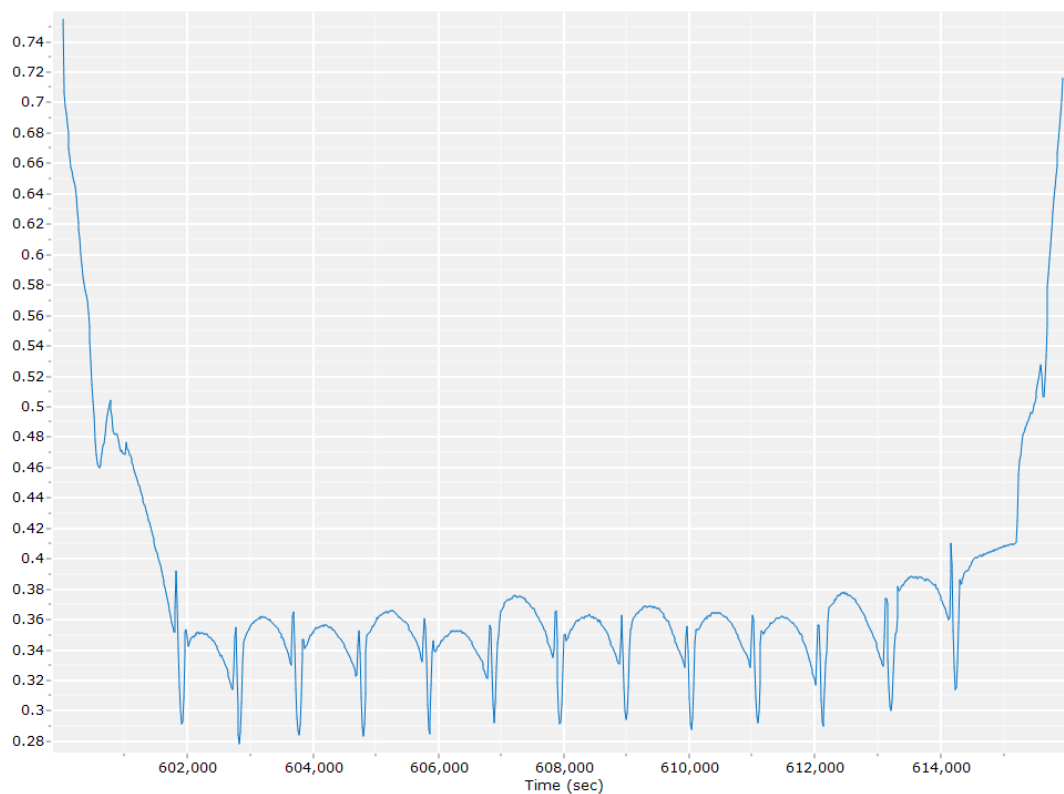
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

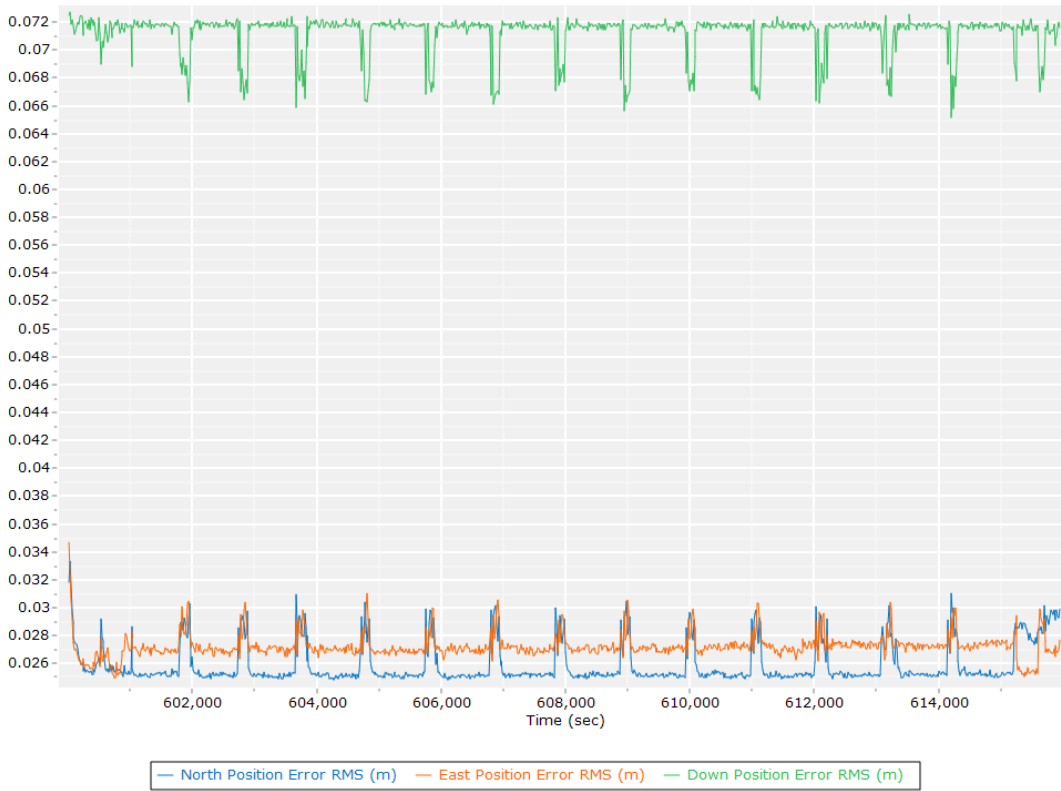


Heading Error RMS (arc-min)

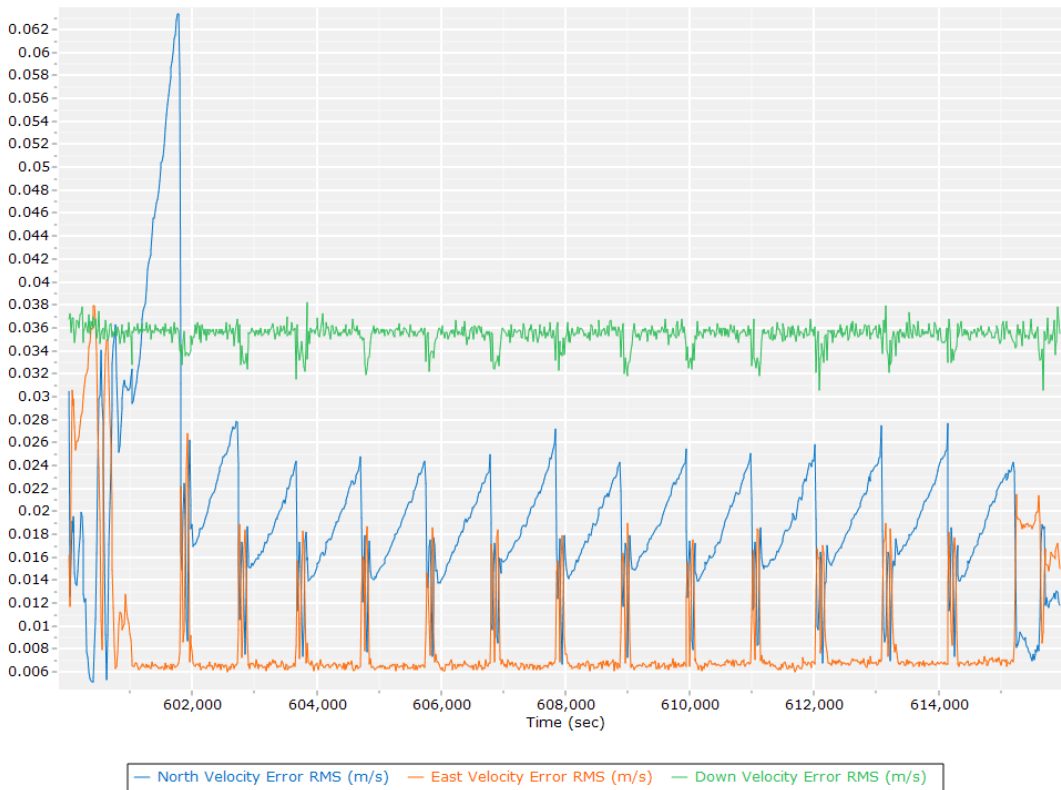


Forward Processed Performance Metrics

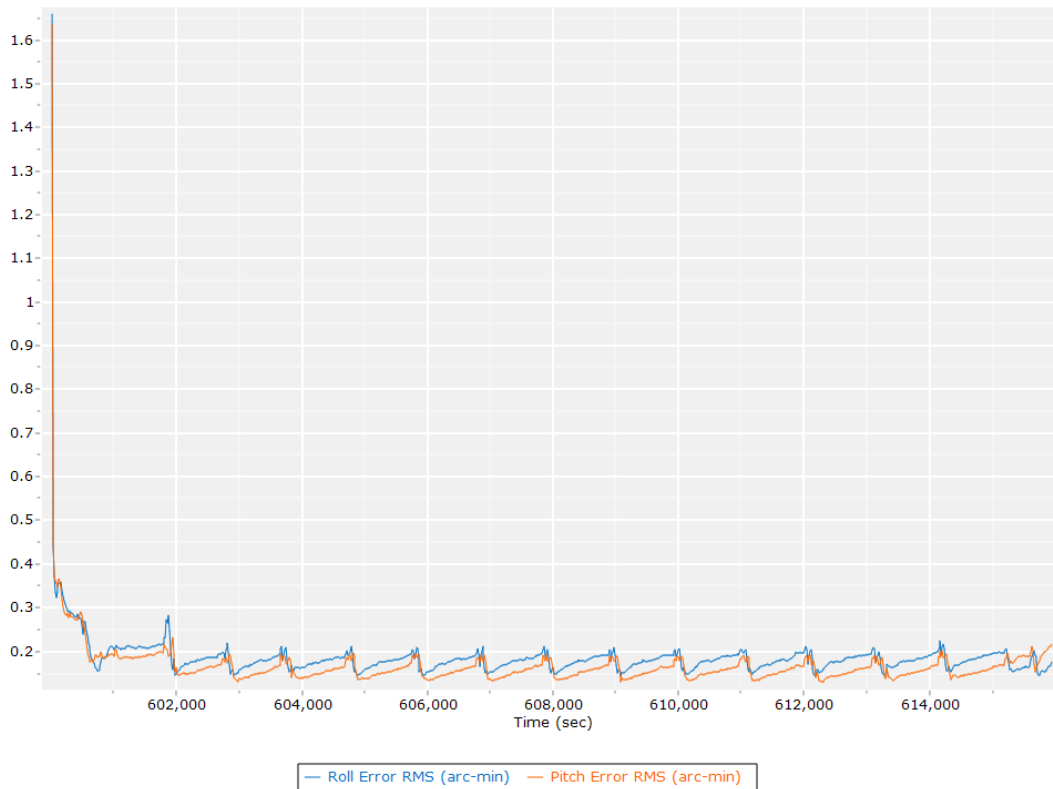
Position Error RMS (m)



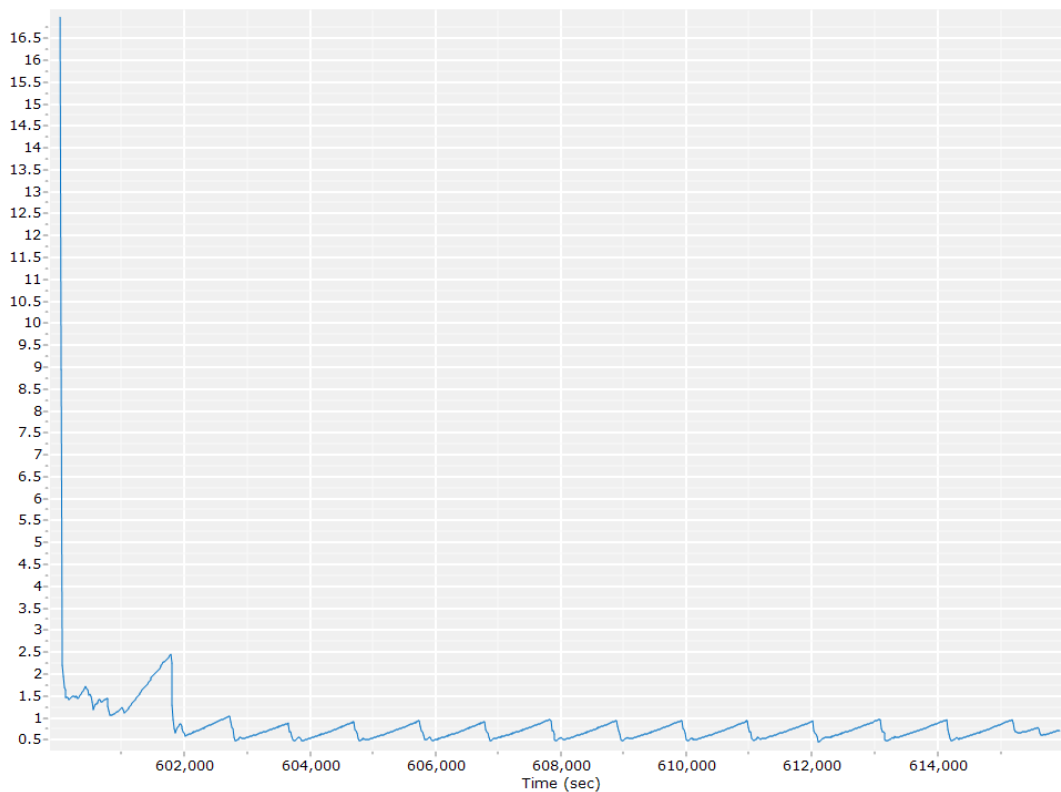
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

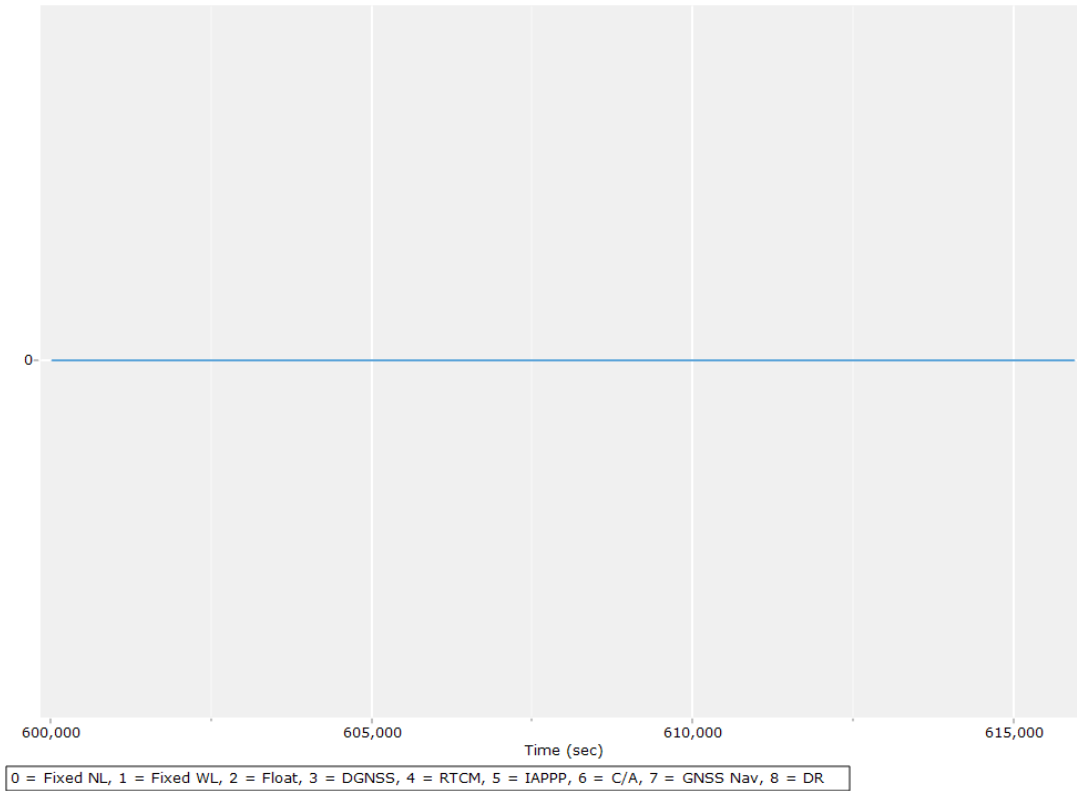


Heading Error RMS (arc-min)

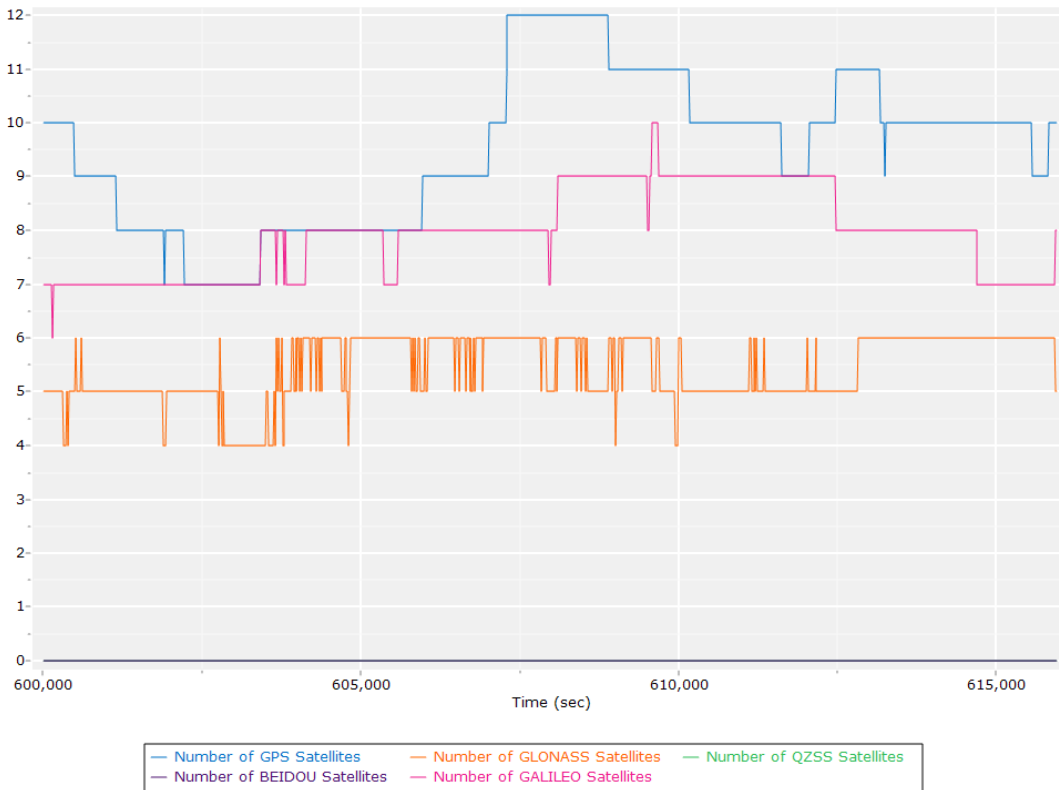


Forward Processed Solution Status

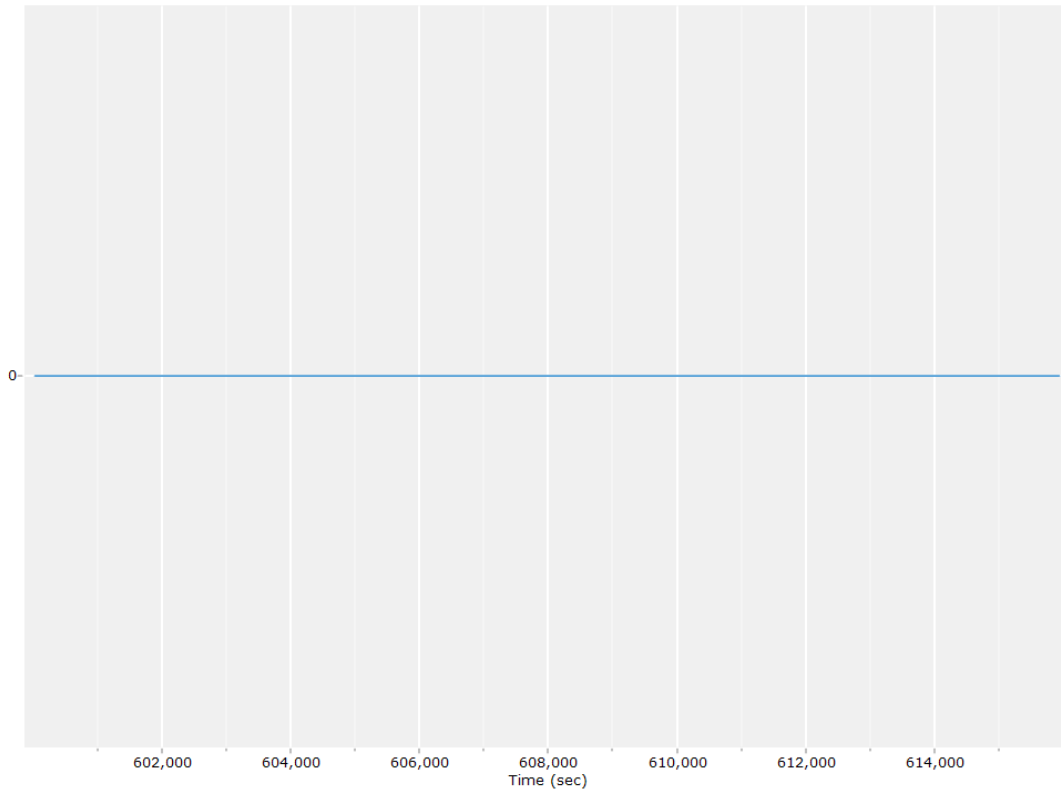
Processing Mode



Number of Satellites



Baseline Length



General Information

Mission Information

Project name	23022_Mohave_QL1_20230401_T2L3_pprtx
Processing date	2023-04-04 21:26:05
Mission date	2023-04-02 04:10:05
Mission duration	03:55:40.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey3.pos	POS Data

Input Files

File Name	File Type
Ephm0920.23g	GLONASS Broadcast Ephemeris
Ephm0920.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey3.pos		
Last raw data file	survey3.pos		
Start GPS week	2256		
Start time	15004.518 (04/02/2023 04:10:04)		
End time	29187.910 (04/02/2023 08:06:27)		
Start of fine alignment	15152.913 (04/02/2023 04:12:32)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

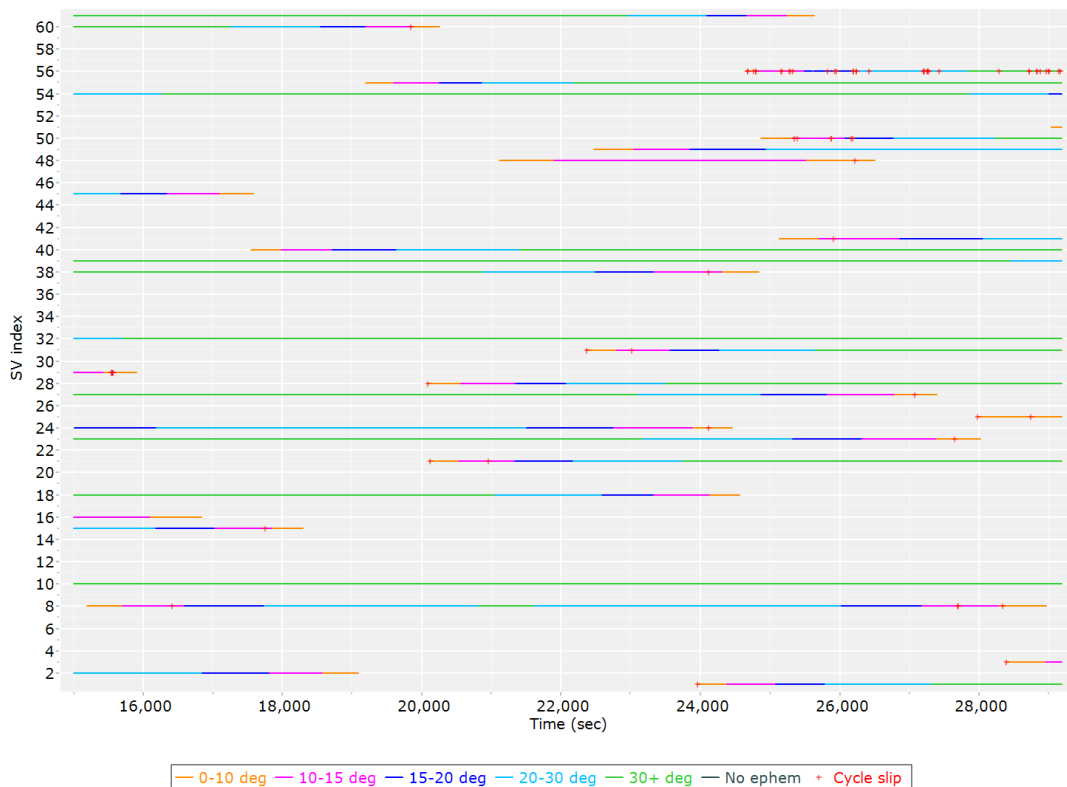
Rover Data QC

Raw IMU Import QC Summary

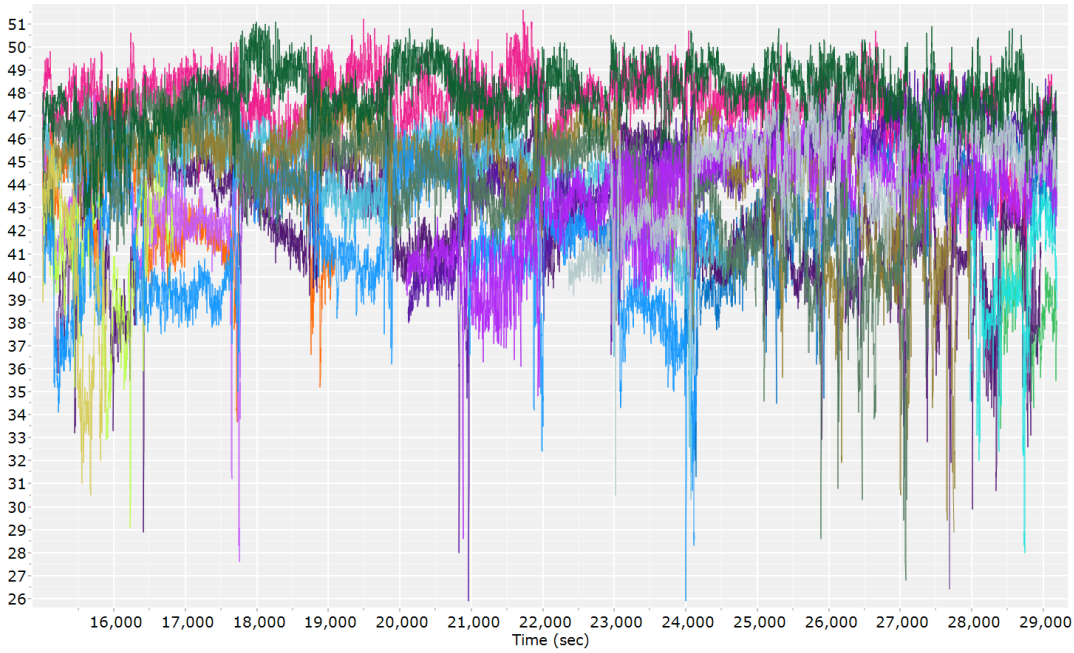
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	2836069
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

GPS/GLONASS L1 Satellite Lock/Elevation

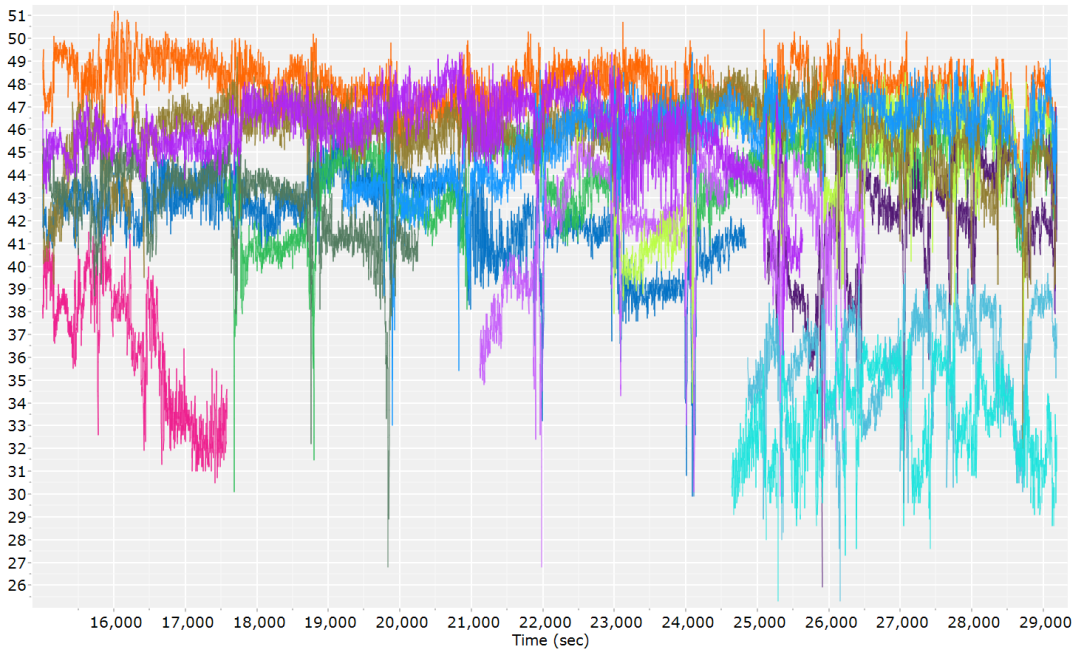


GPS L1 SNR



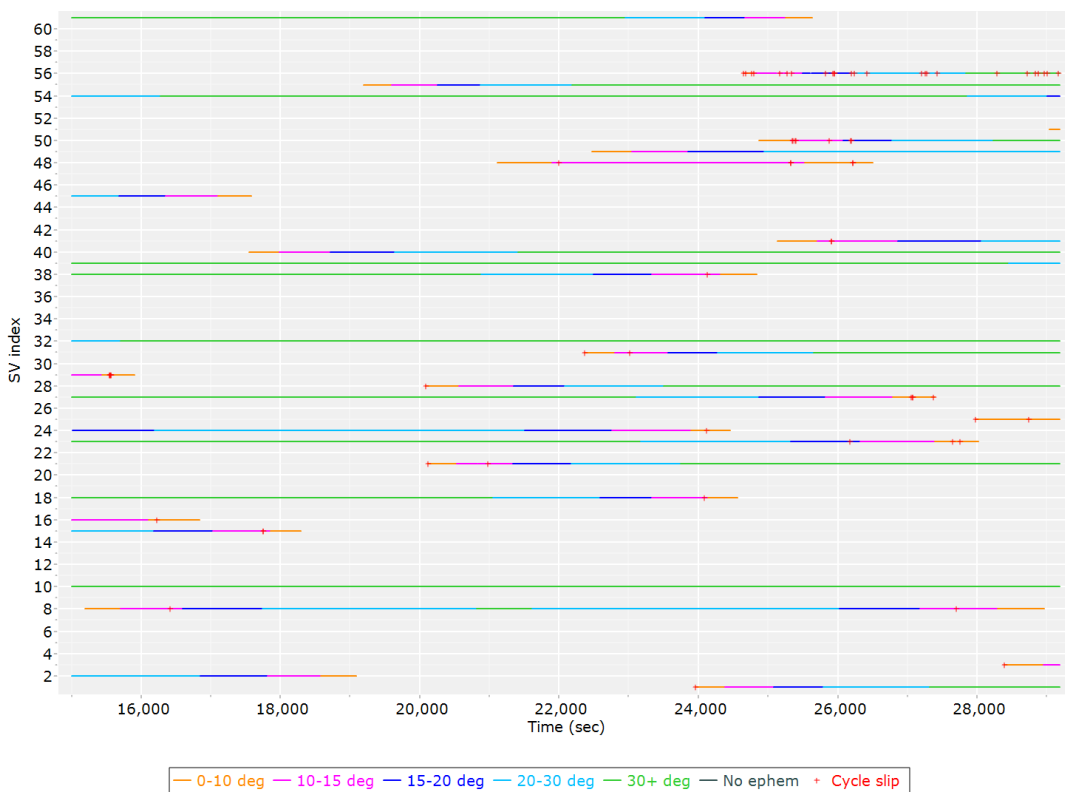
- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| GPS PRN 01 L1 SNR (dB/Hz) | GPS PRN 02 L1 SNR (dB/Hz) | GPS PRN 03 L1 SNR (dB/Hz) | GPS PRN 08 L1 SNR (dB/Hz) |
| GPS PRN 10 L1 SNR (dB/Hz) | GPS PRN 15 L1 SNR (dB/Hz) | GPS PRN 16 L1 SNR (dB/Hz) | GPS PRN 18 L1 SNR (dB/Hz) |
| GPS PRN 21 L1 SNR (dB/Hz) | GPS PRN 23 L1 SNR (dB/Hz) | GPS PRN 24 L1 SNR (dB/Hz) | GPS PRN 25 L1 SNR (dB/Hz) |
| GPS PRN 27 L1 SNR (dB/Hz) | GPS PRN 28 L1 SNR (dB/Hz) | GPS PRN 29 L1 SNR (dB/Hz) | GPS PRN 31 L1 SNR (dB/Hz) |
| GPS PRN 32 L1 SNR (dB/Hz) | | | |

GLONASS L1 SNR

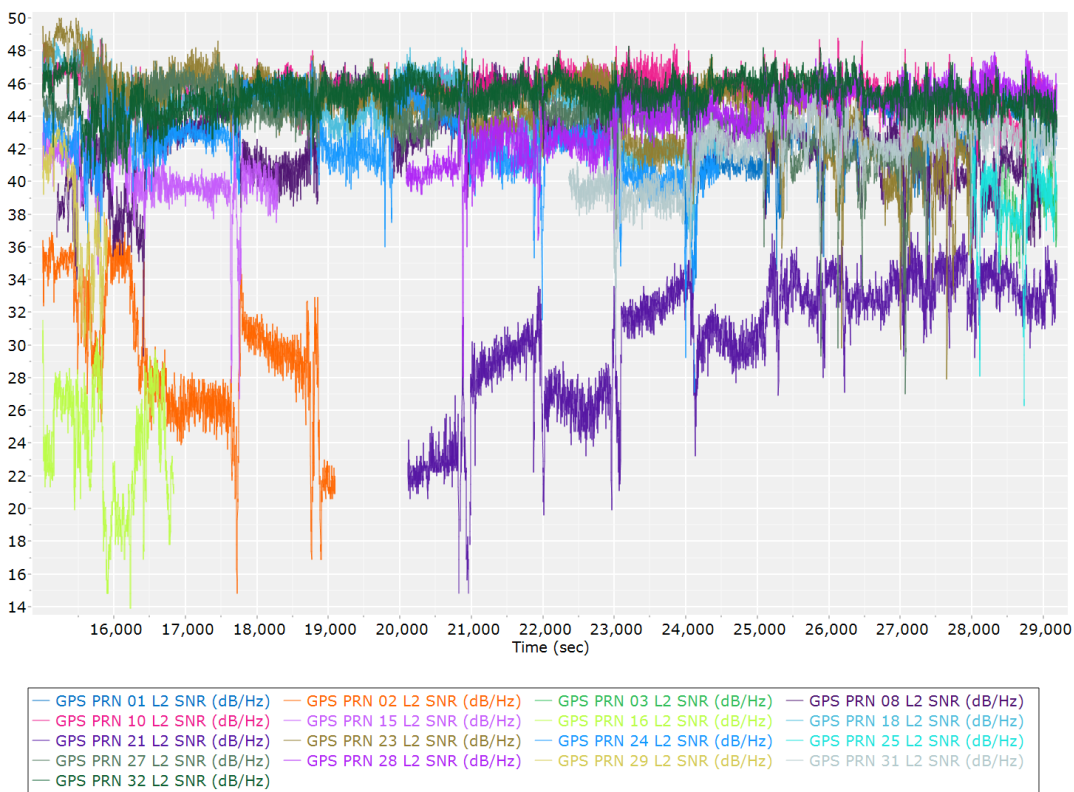


- | | | |
|---------------------------|---------------------------|---------------------------|
| GLONASS 01 L1 SNR (dB/Hz) | GLONASS 02 L1 SNR (dB/Hz) | GLONASS 03 L1 SNR (dB/Hz) |
| GLONASS 04 L1 SNR (dB/Hz) | GLONASS 08 L1 SNR (dB/Hz) | GLONASS 11 L1 SNR (dB/Hz) |
| GLONASS 12 L1 SNR (dB/Hz) | GLONASS 13 L1 SNR (dB/Hz) | GLONASS 14 L1 SNR (dB/Hz) |
| GLONASS 17 L1 SNR (dB/Hz) | GLONASS 18 L1 SNR (dB/Hz) | GLONASS 19 L1 SNR (dB/Hz) |
| GLONASS 23 L1 SNR (dB/Hz) | GLONASS 24 L1 SNR (dB/Hz) | |

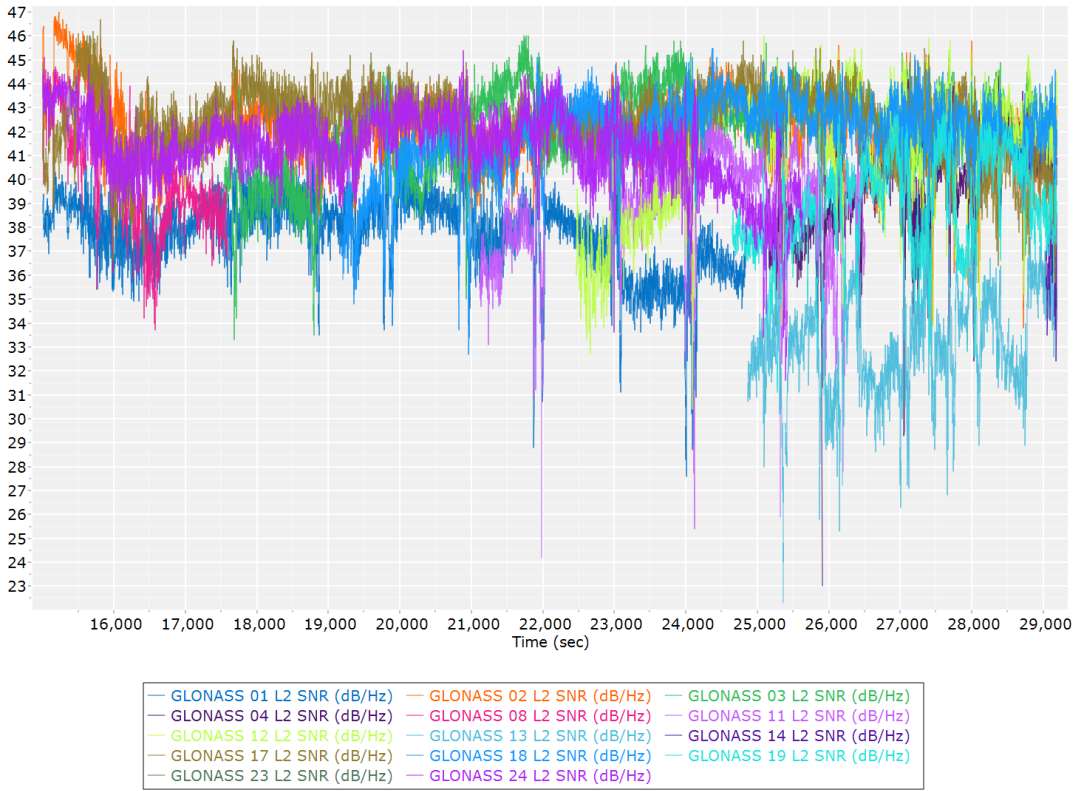
GPS/GLONASS L2 Satellite Lock/Elevation



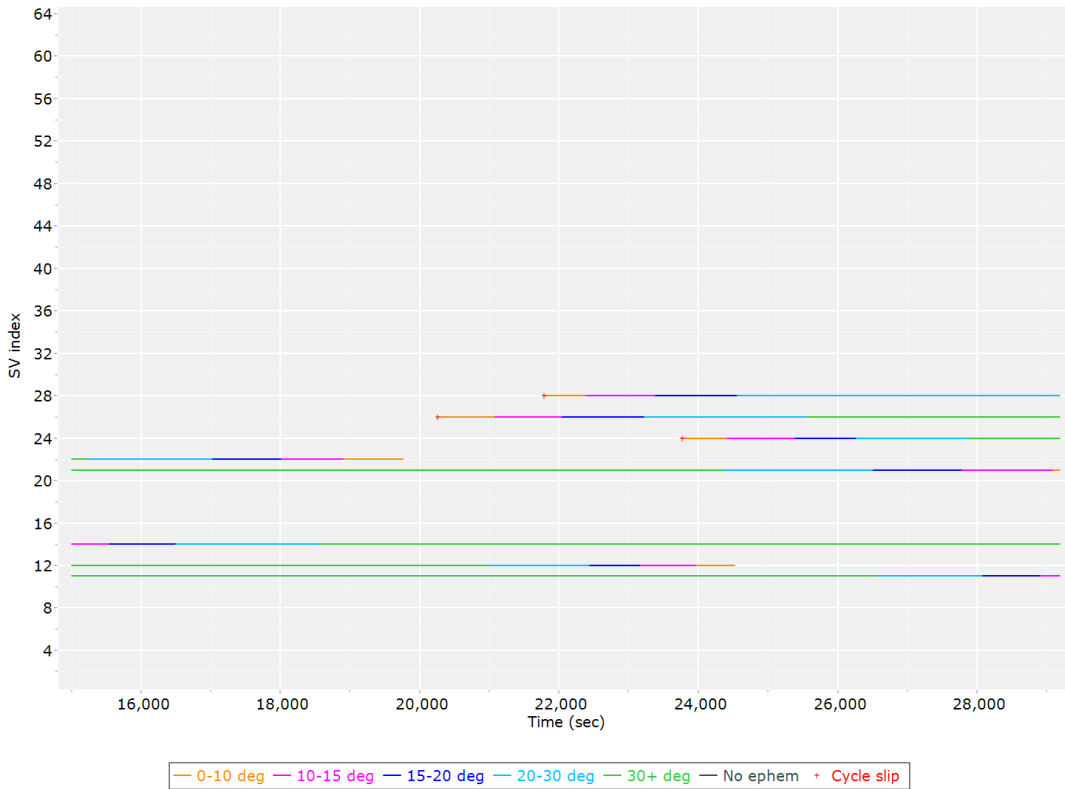
GPS L2 SNR



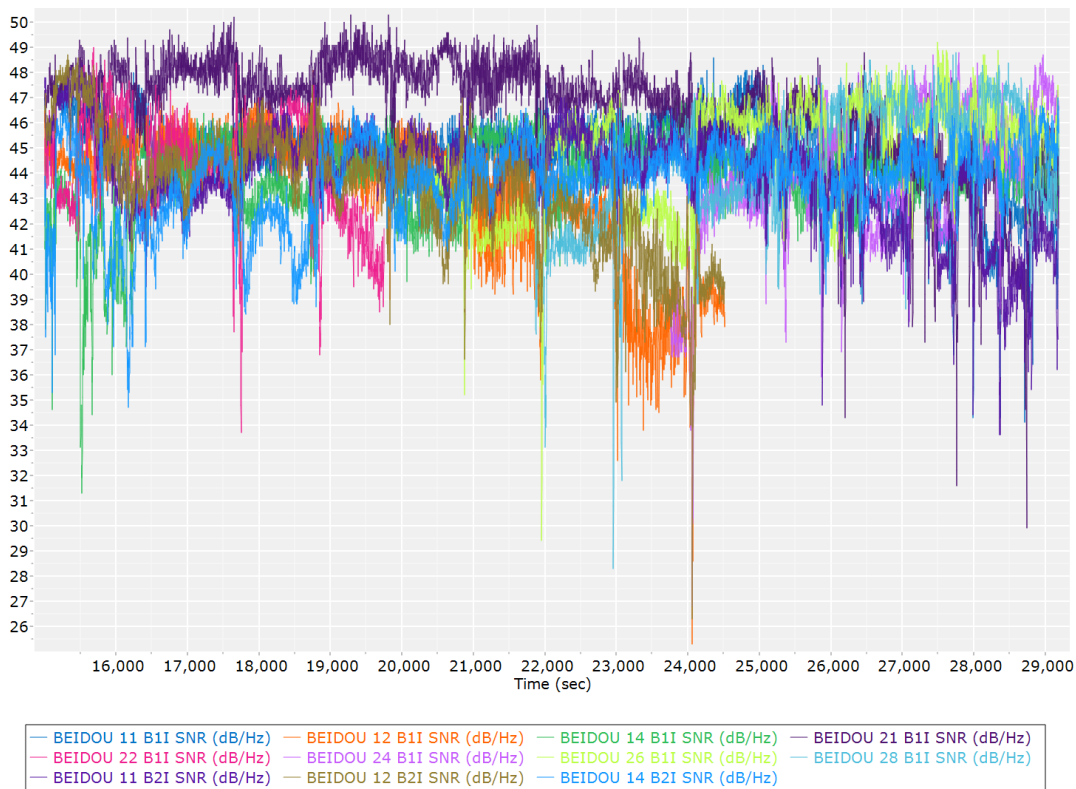
GLONASS L2 SNR



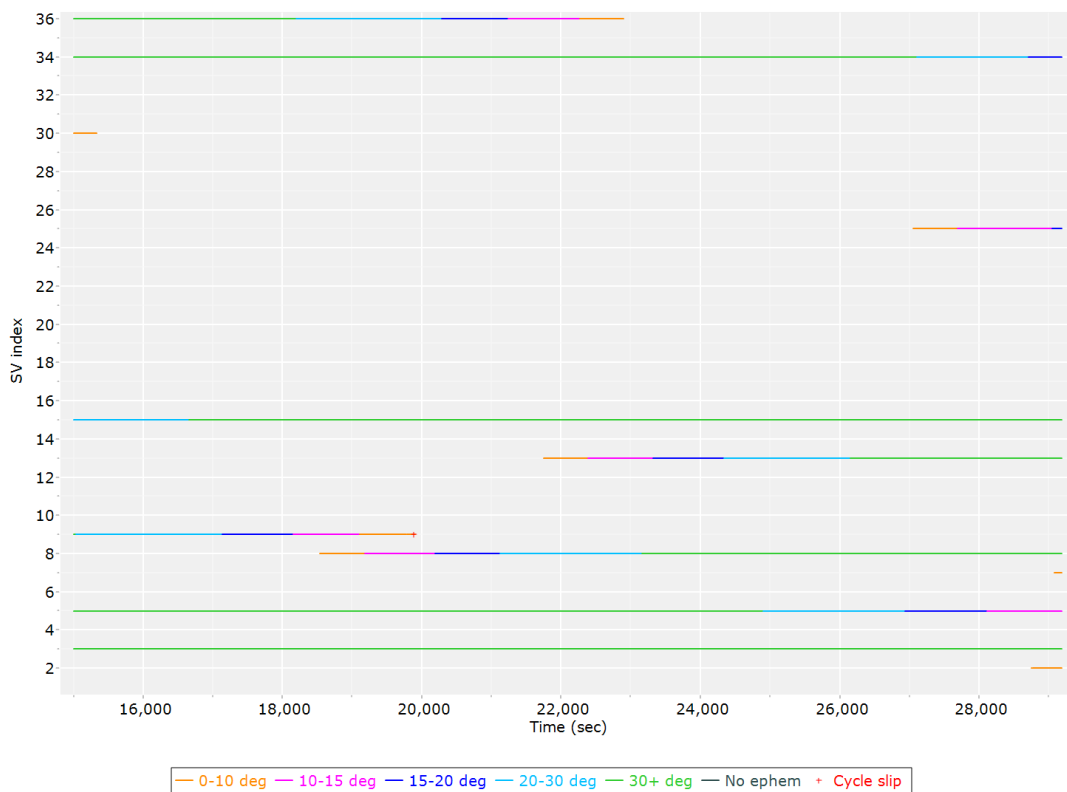
BEIDOU Satellite Lock/Elevation



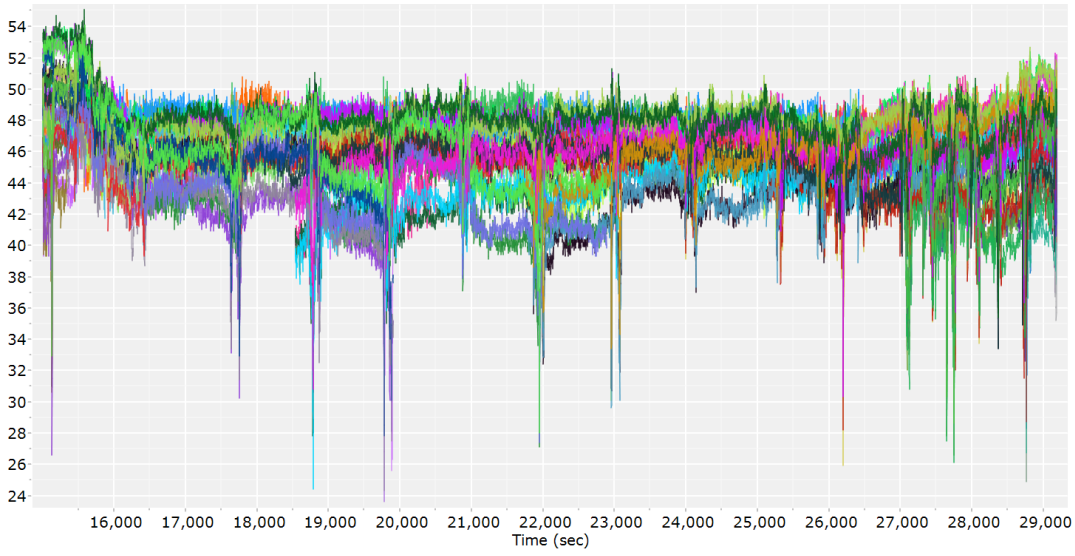
BEIDOU SNR



GALILEO Satellite Lock/Elevation



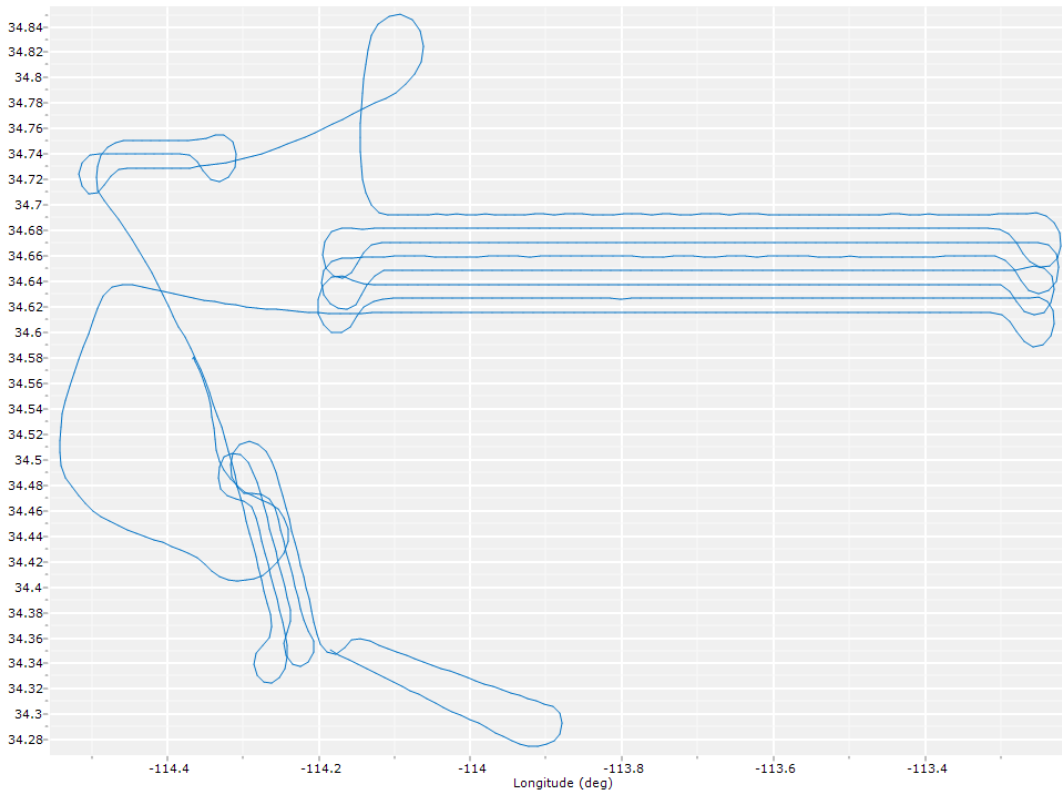
GALILEO SNR



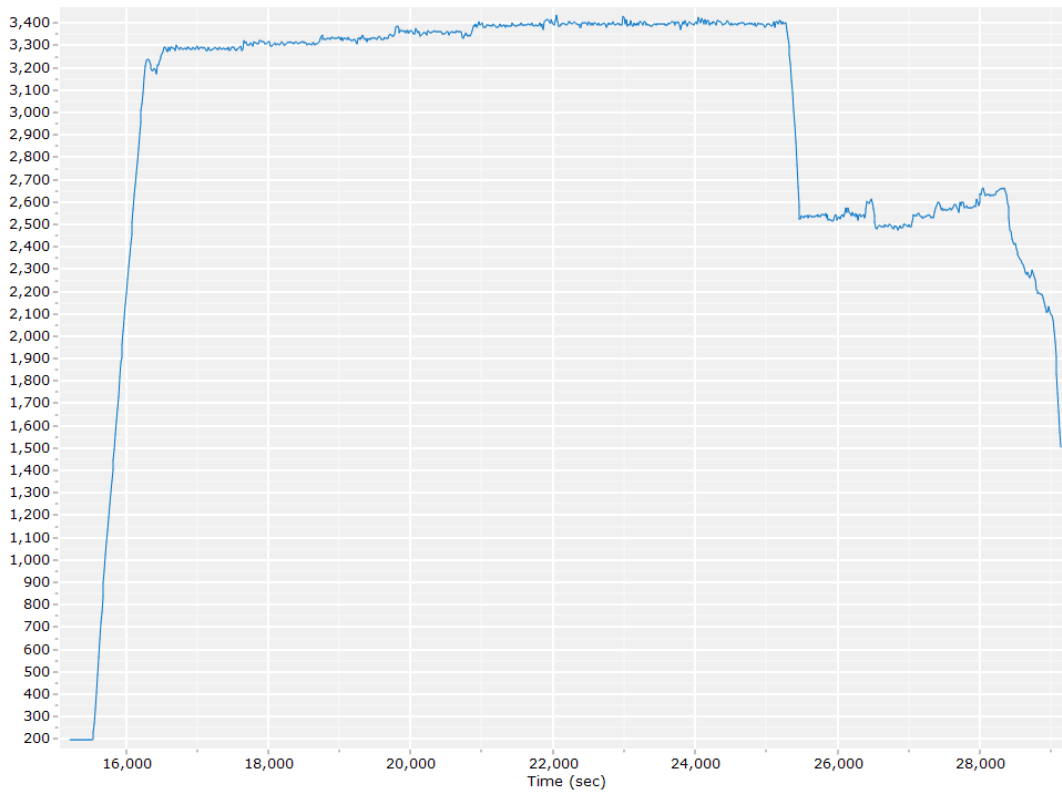
— GALILEO 02 E1CBOC SNR (dB/Hz)	— GALILEO 03 E1CBOC SNR (dB/Hz)	— GALILEO 05 E1CBOC SNR (dB/Hz)
— GALILEO 07 E1CBOC SNR (dB/Hz)	— GALILEO 08 E1CBOC SNR (dB/Hz)	— GALILEO 09 E1CBOC SNR (dB/Hz)
— GALILEO 13 E1CBOC SNR (dB/Hz)	— GALILEO 15 E1CBOC SNR (dB/Hz)	— GALILEO 25 E1CBOC SNR (dB/Hz)
— GALILEO 30 E1CBOC SNR (dB/Hz)	— GALILEO 34 E1CBOC SNR (dB/Hz)	— GALILEO 36 E1CBOC SNR (dB/Hz)
— GALILEO 02 E5A SNR (dB/Hz)	— GALILEO 03 E5A SNR (dB/Hz)	— GALILEO 05 E5A SNR (dB/Hz)
— GALILEO 07 E5A SNR (dB/Hz)	— GALILEO 08 E5A SNR (dB/Hz)	— GALILEO 09 E5A SNR (dB/Hz)
— GALILEO 13 E5A SNR (dB/Hz)	— GALILEO 15 E5A SNR (dB/Hz)	— GALILEO 25 E5A SNR (dB/Hz)
— GALILEO 30 E5A SNR (dB/Hz)	— GALILEO 34 E5A SNR (dB/Hz)	— GALILEO 36 E5A SNR (dB/Hz)
— GALILEO 02 E5B SNR (dB/Hz)	— GALILEO 03 E5B SNR (dB/Hz)	— GALILEO 05 E5B SNR (dB/Hz)
— GALILEO 07 E5B SNR (dB/Hz)	— GALILEO 08 E5B SNR (dB/Hz)	— GALILEO 09 E5B SNR (dB/Hz)

Smoothed Trajectory Information

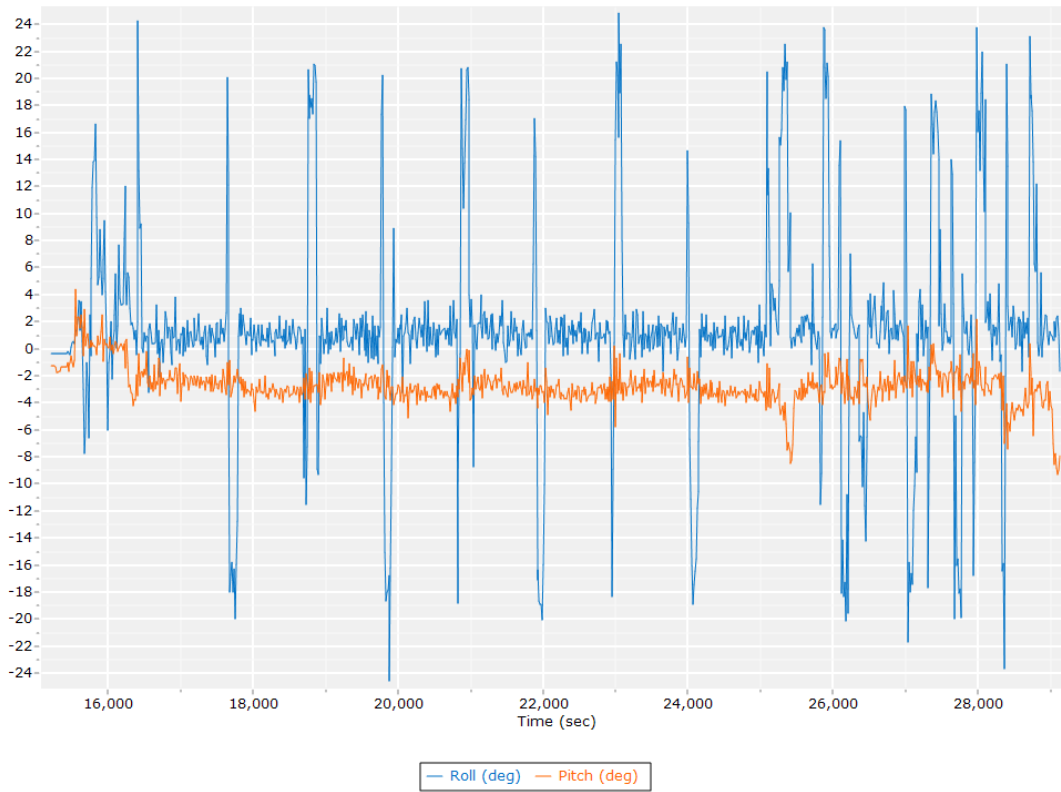
Top View



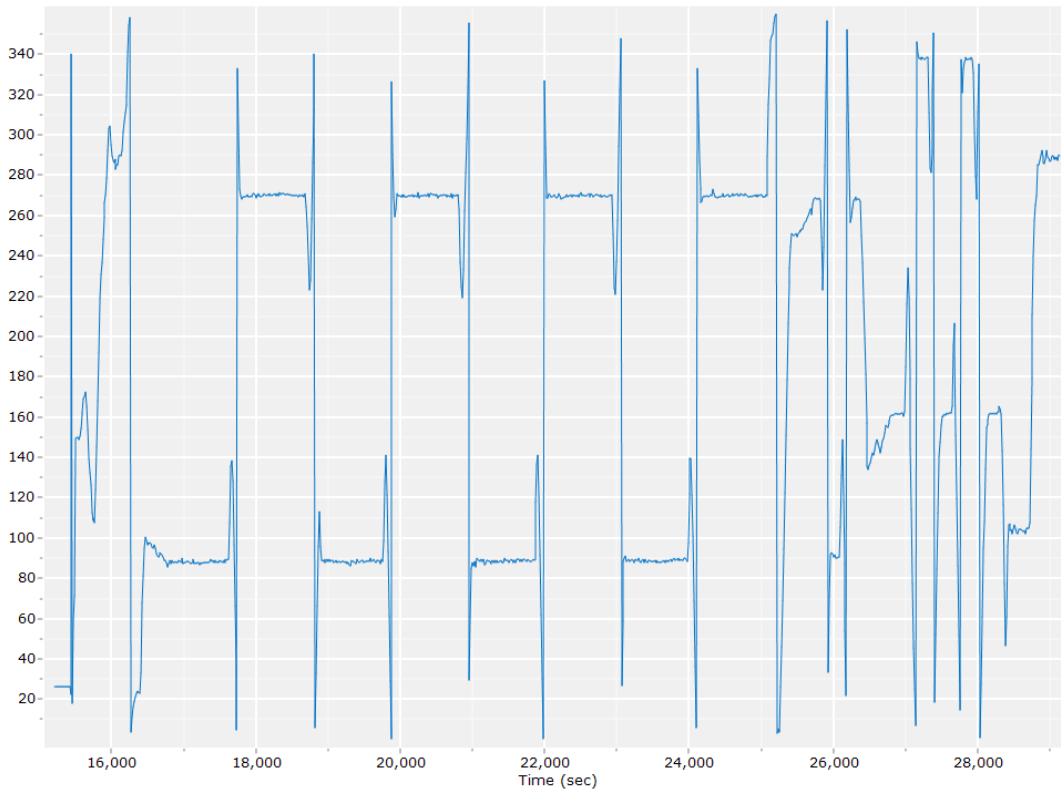
Altitude



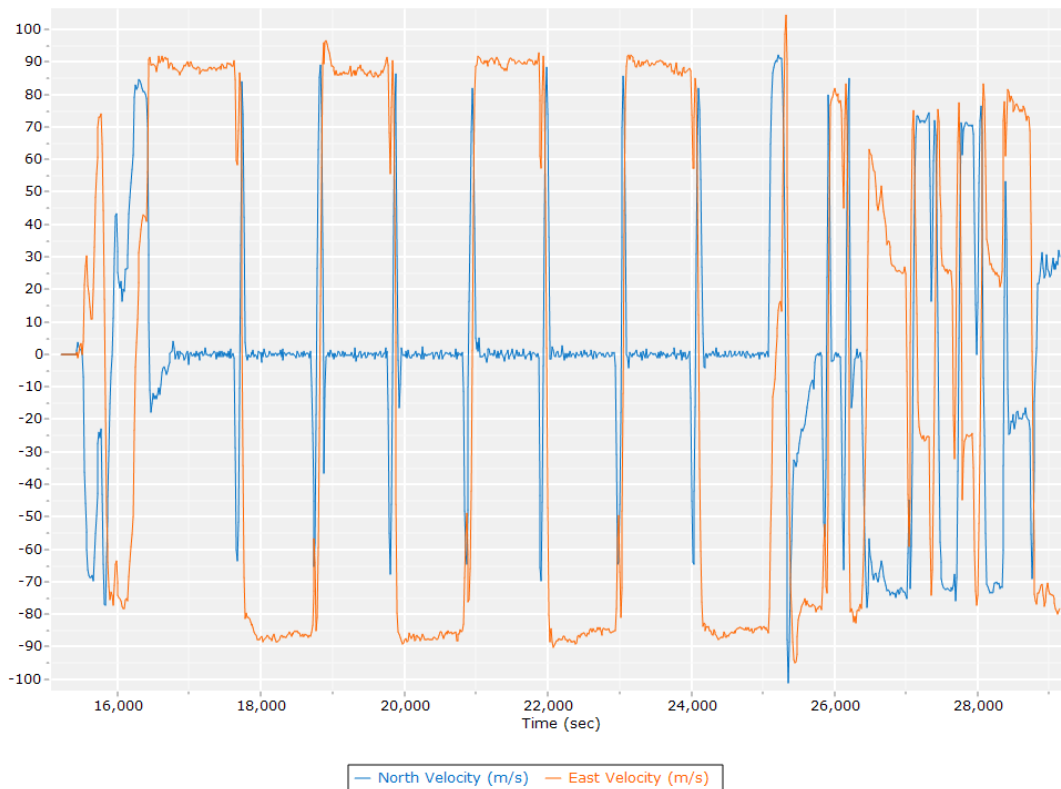
Roll/Pitch



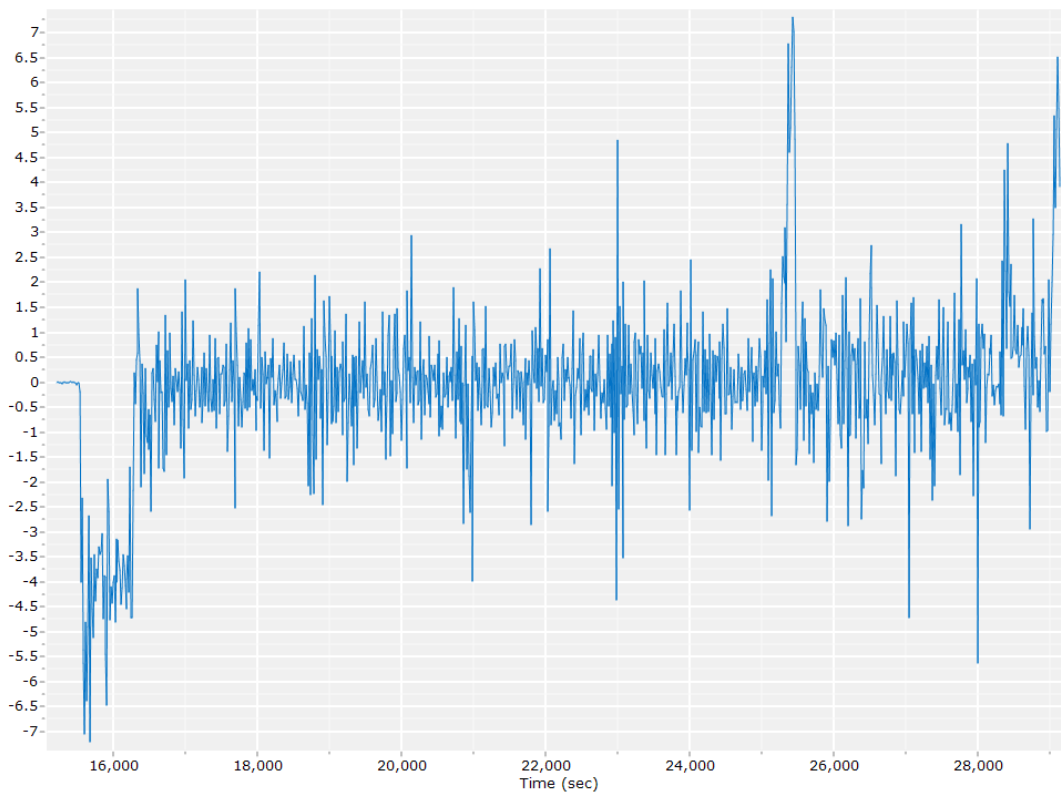
Heading



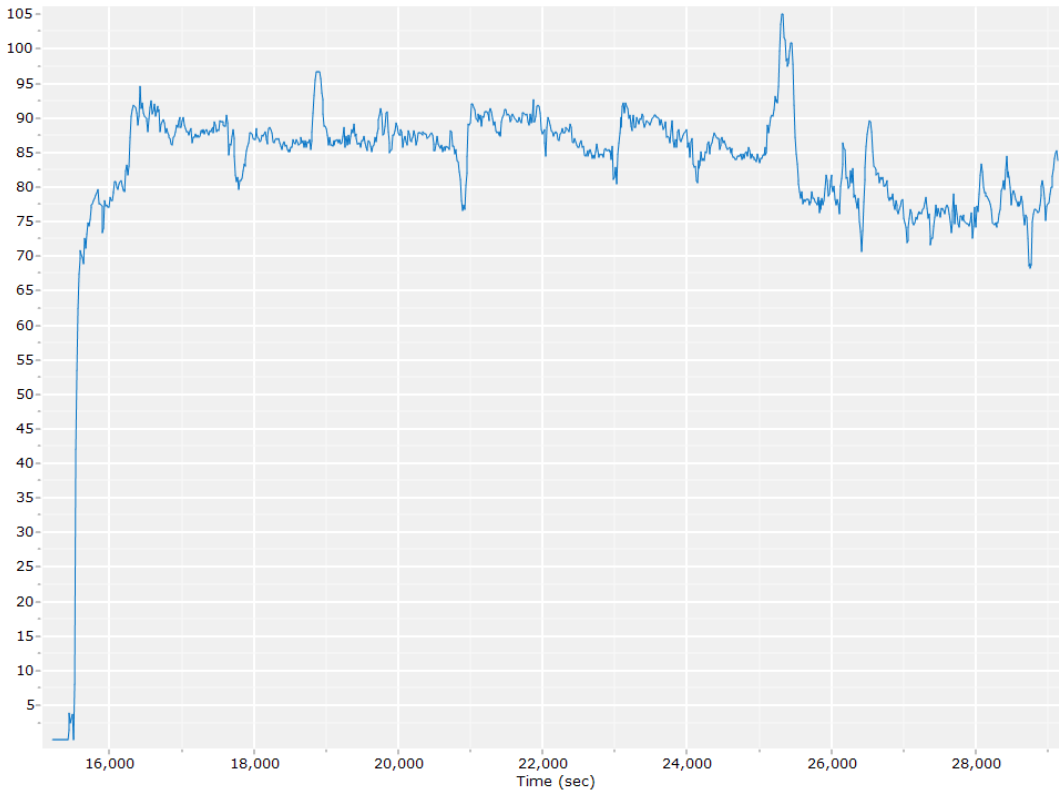
North/East Velocity



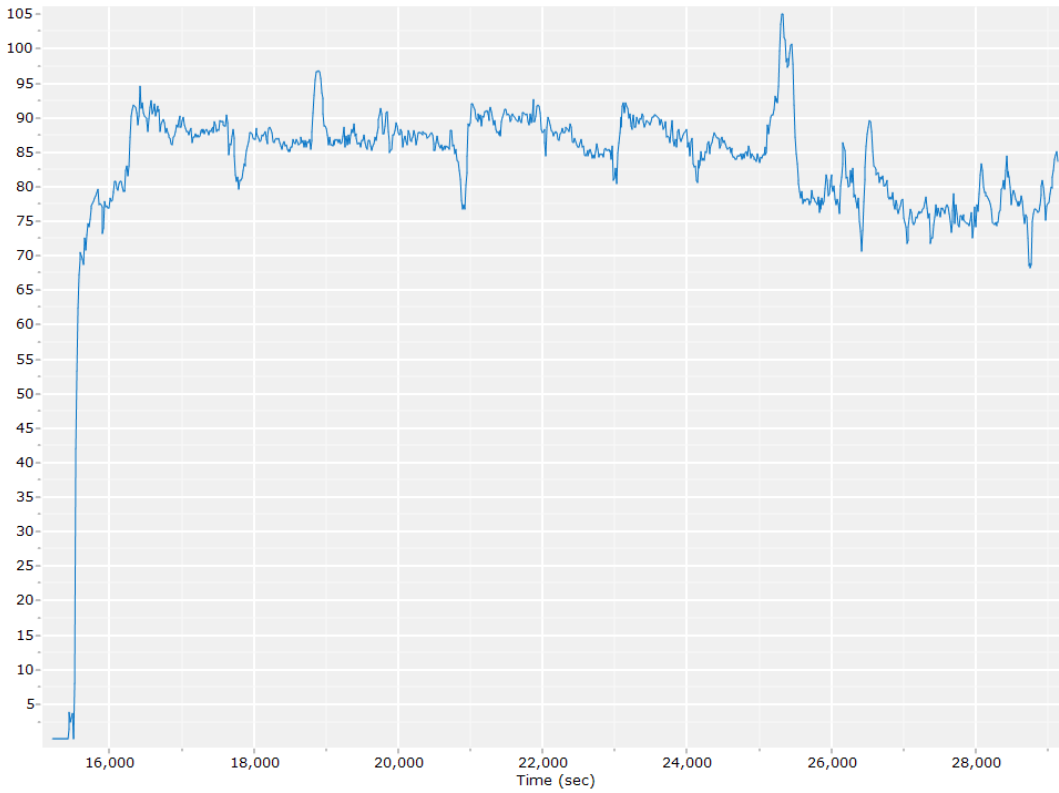
Down Velocity



Total Speed



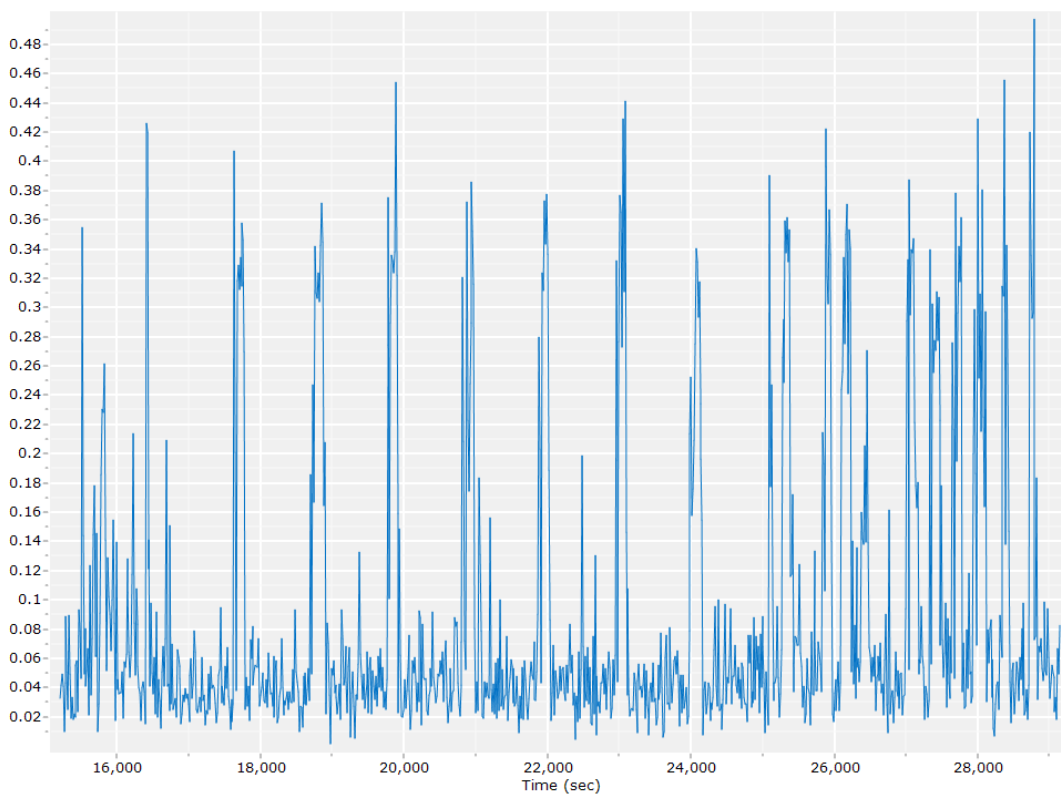
Ground Speed



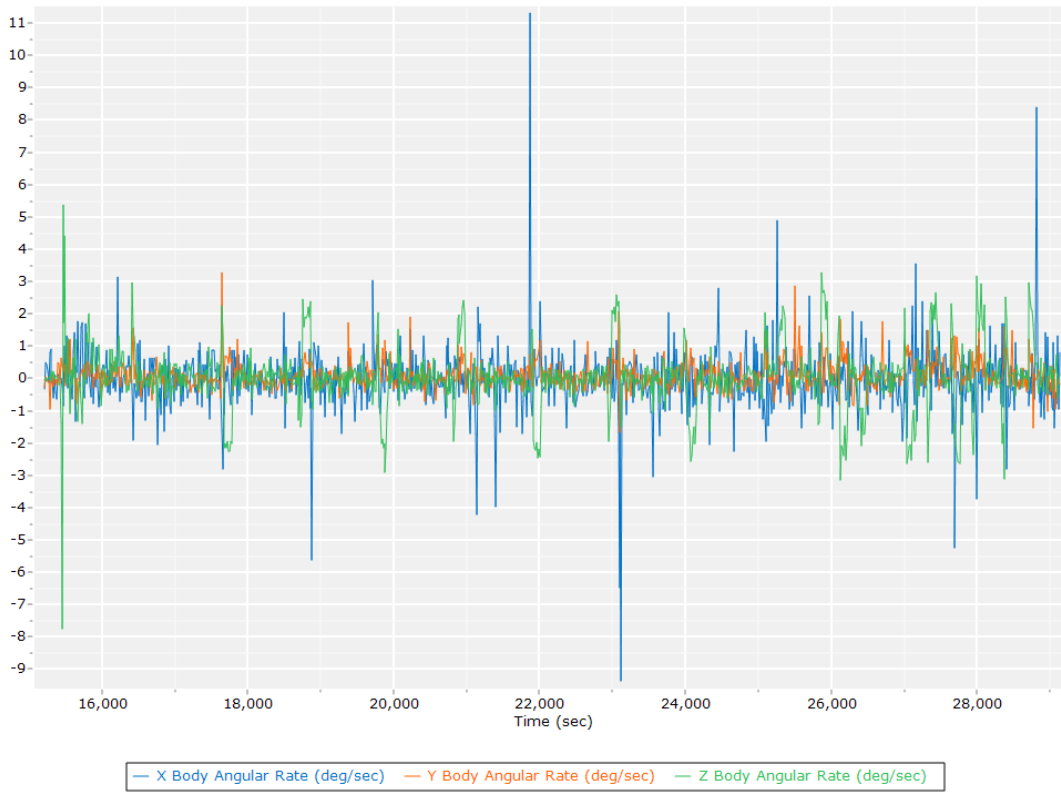
Body Acceleration



Total Body Acceleration

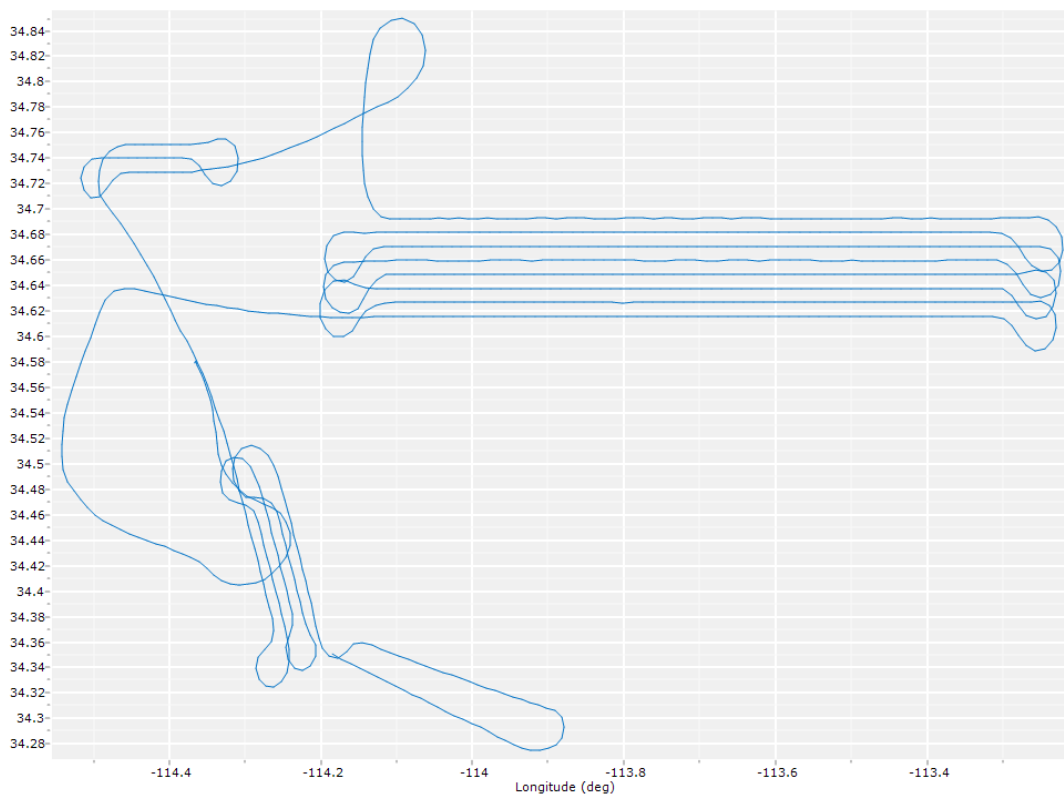


Body Angular Rate

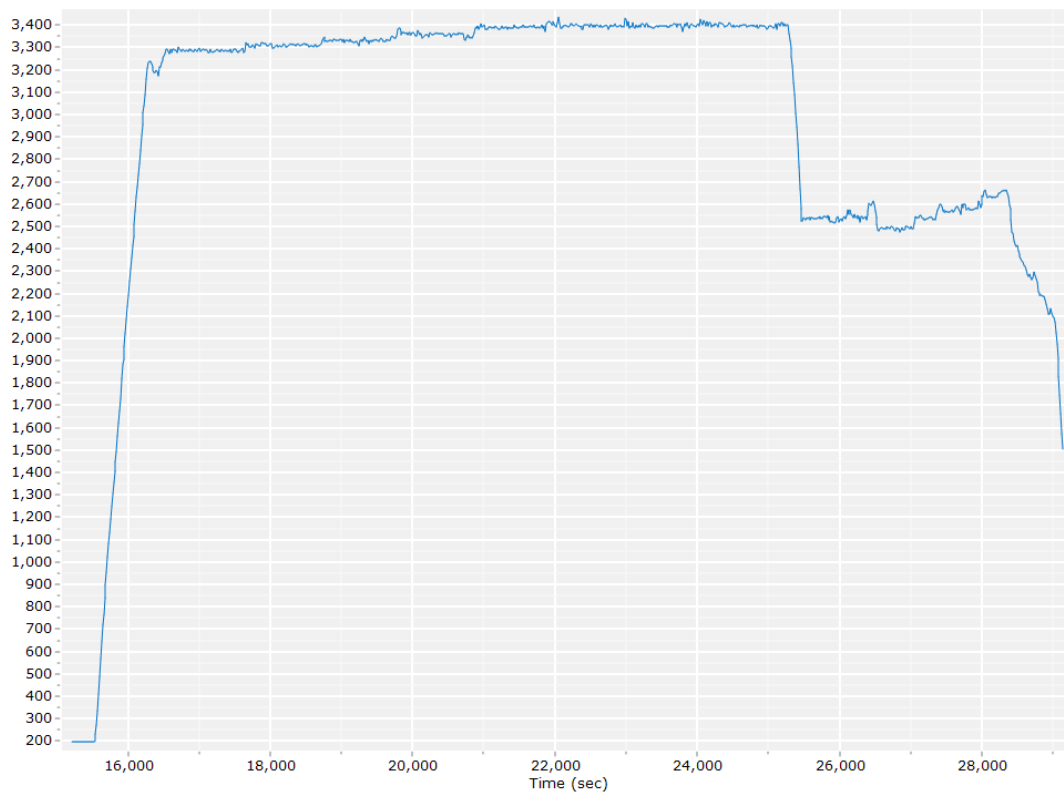


Forward Processed Trajectory Information

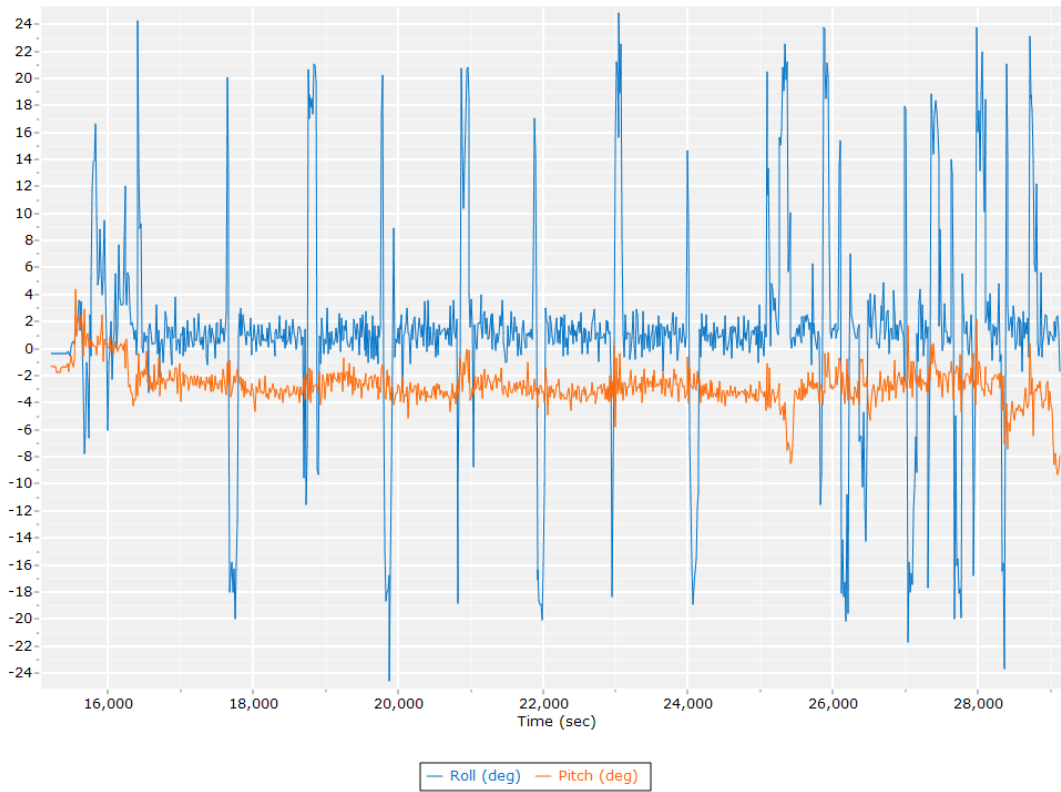
Top View



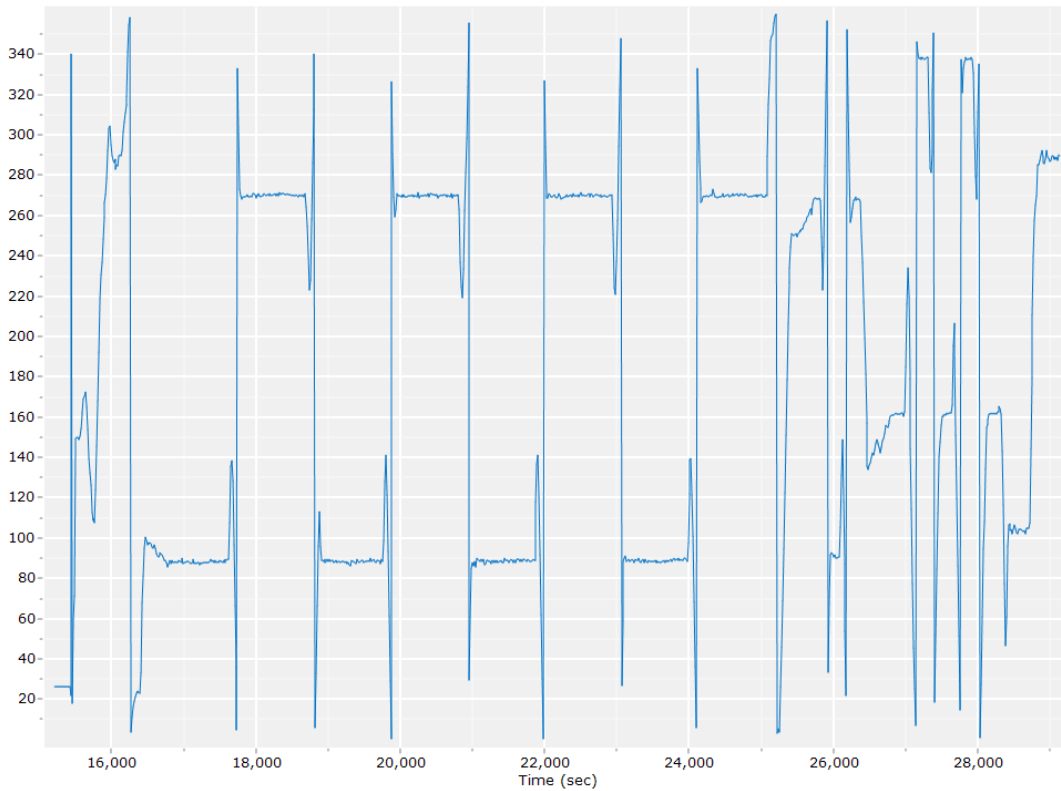
Altitude



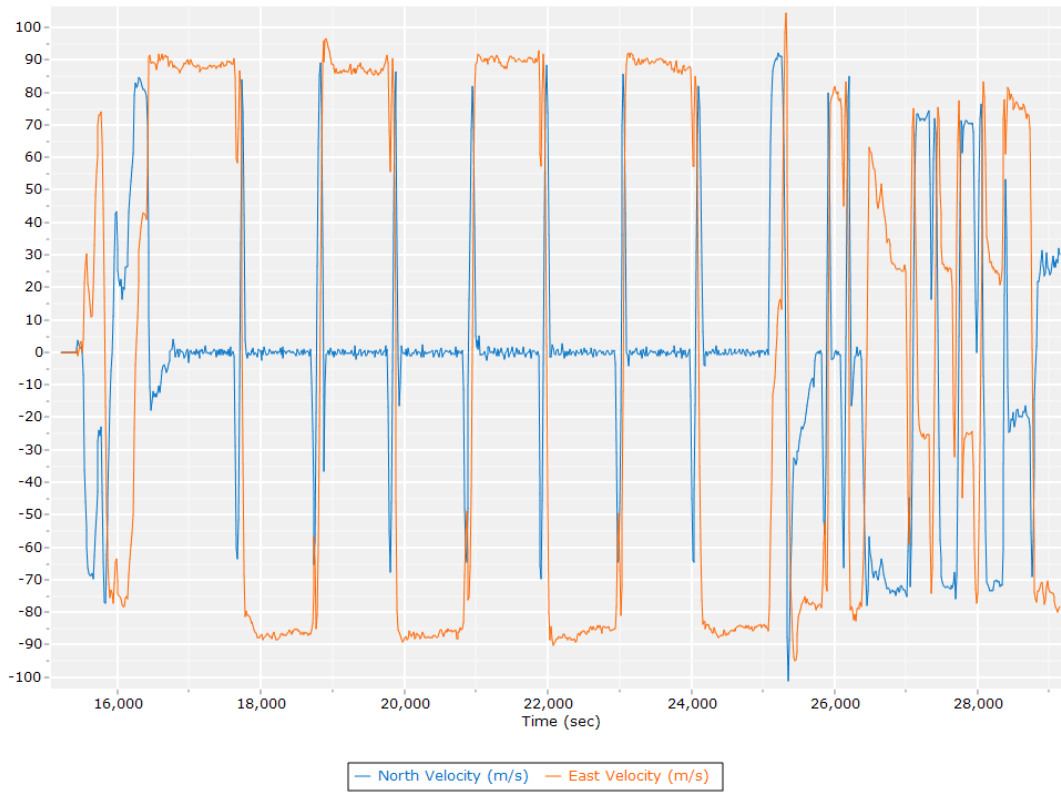
Roll/Pitch



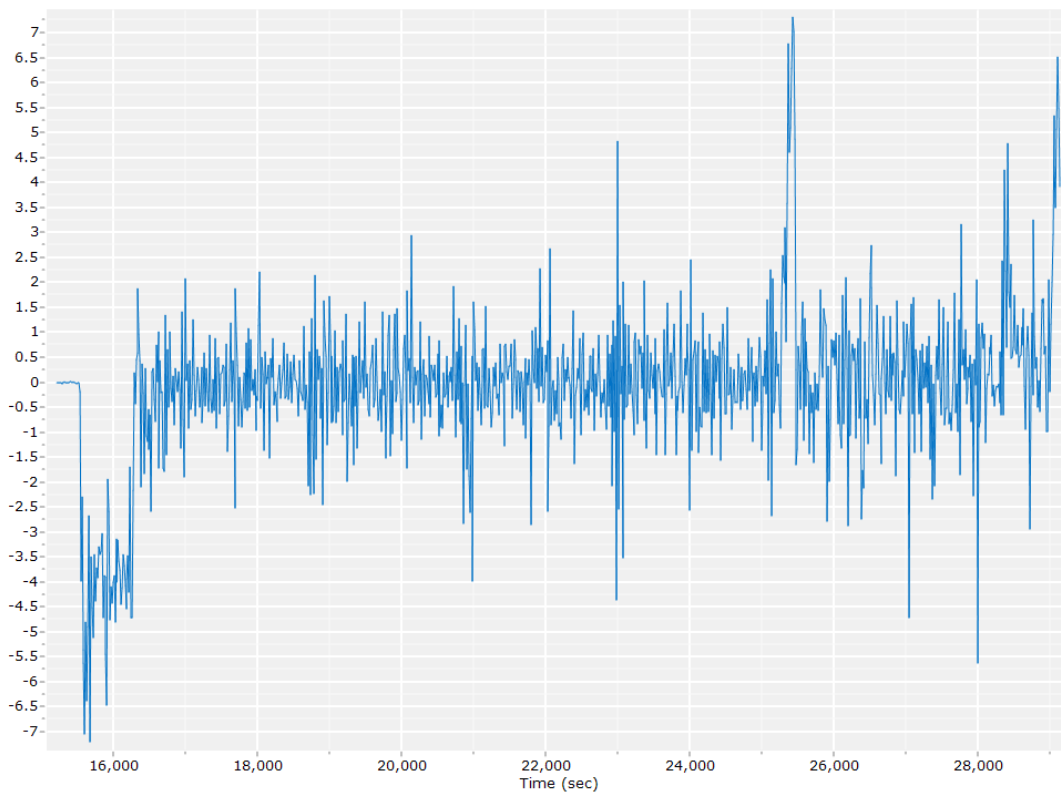
Heading



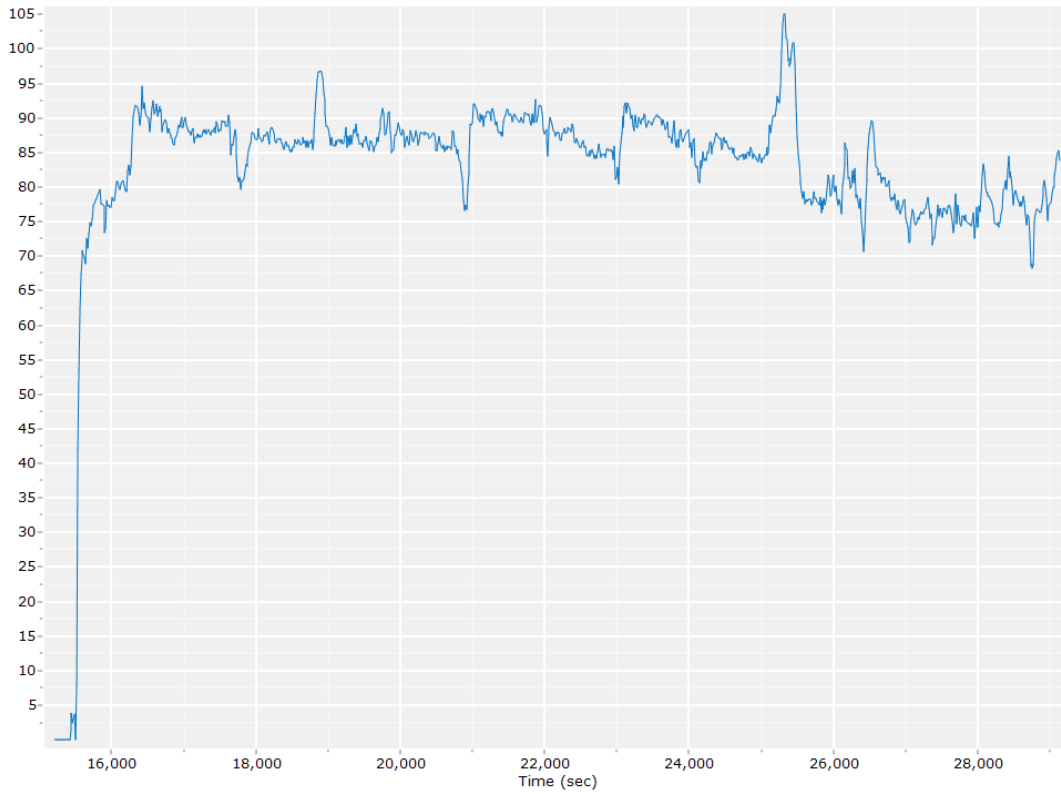
North/East Velocity



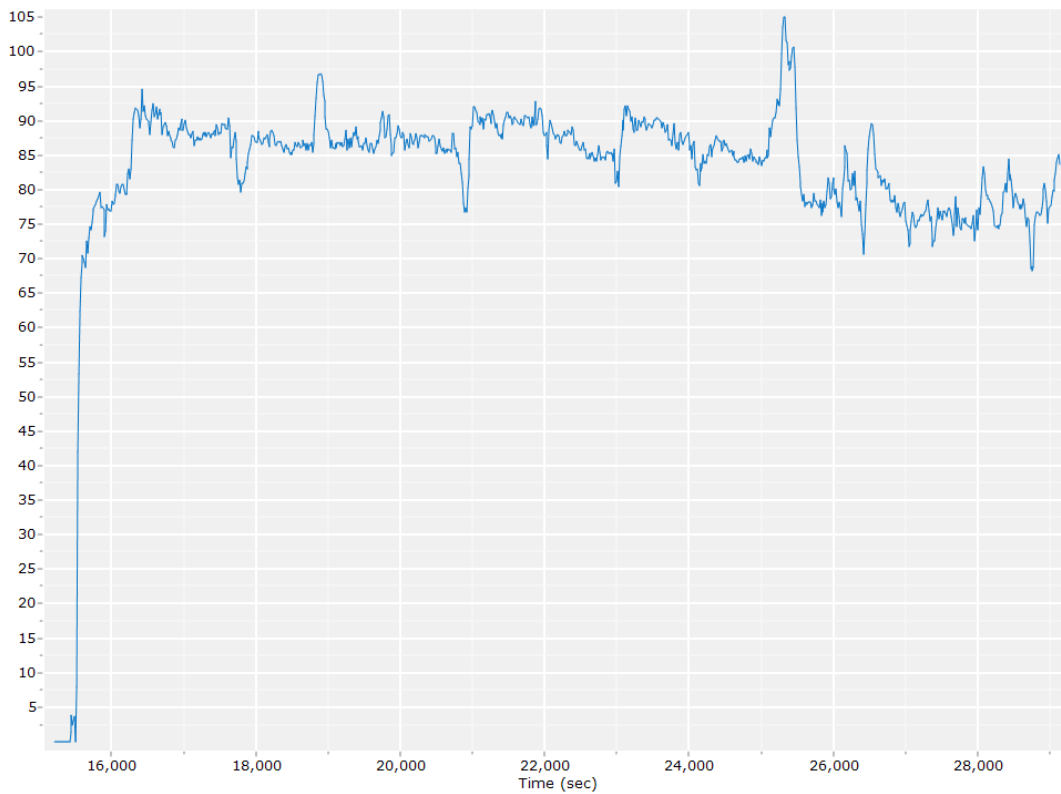
Down Velocity



Total Speed



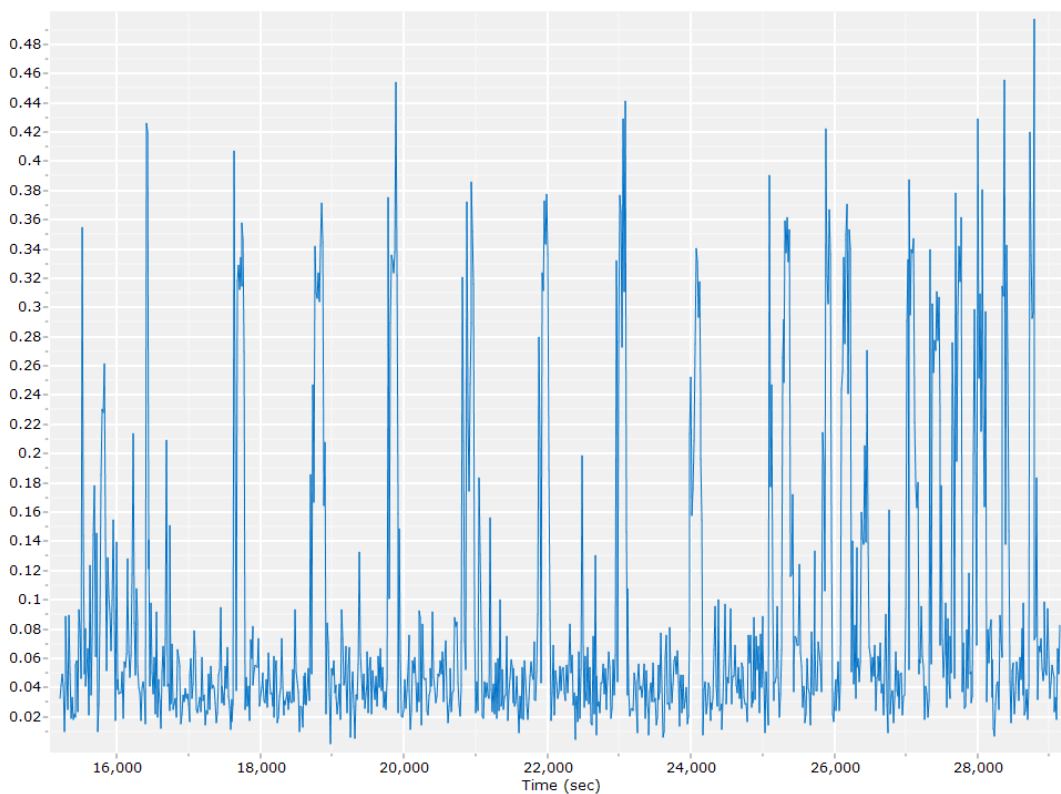
Ground Speed



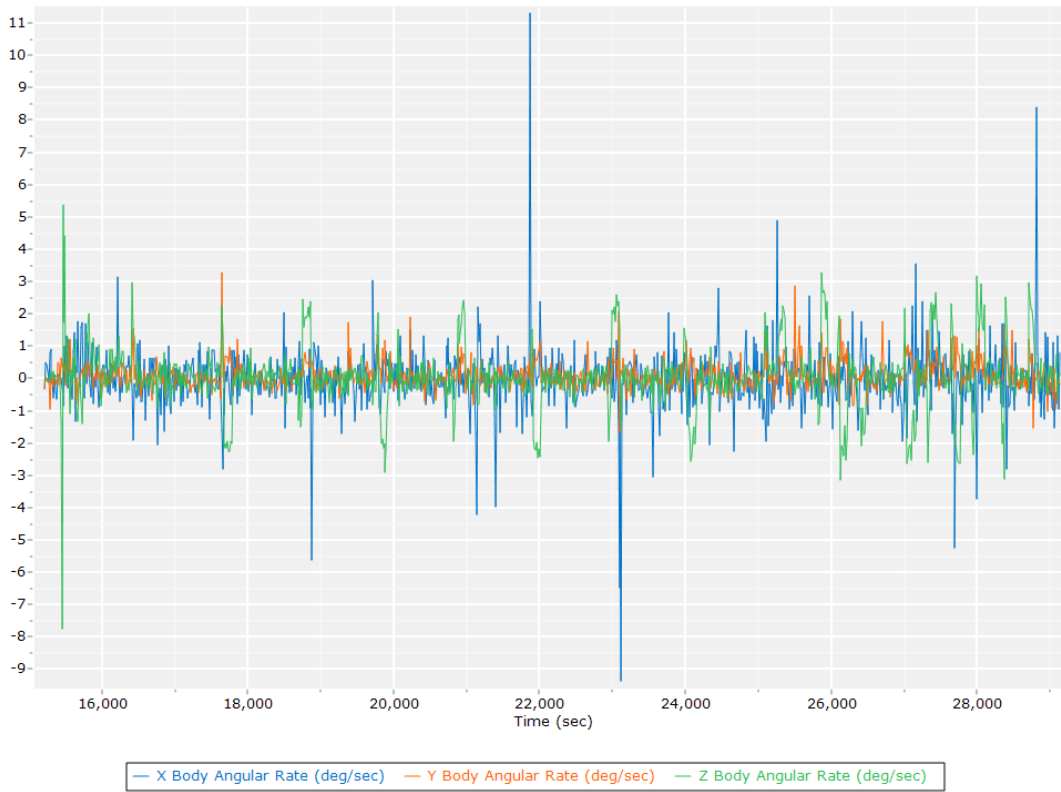
Body Acceleration



Total Body Acceleration



Body Angular Rate



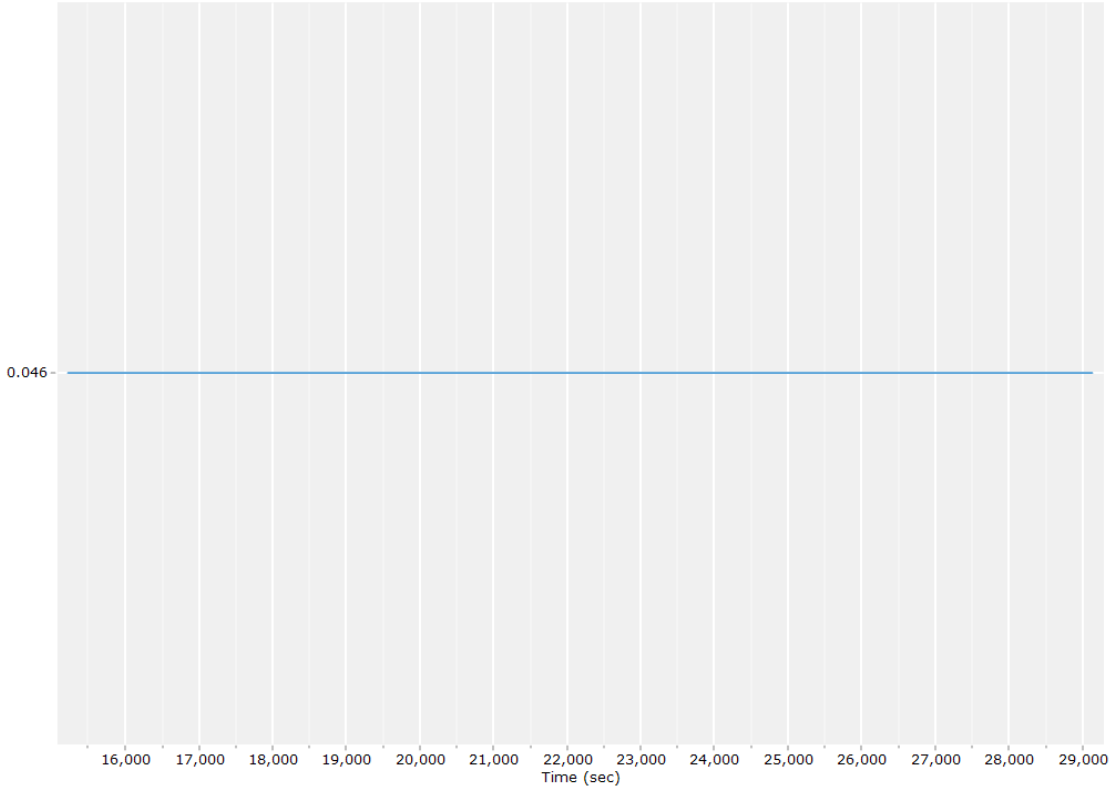
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	15005.000 (04/02/2023 04:10:05)		
Processing end time	29145.000 (04/02/2023 08:05:45)		
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)	0.046	-0.153	-0.934
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

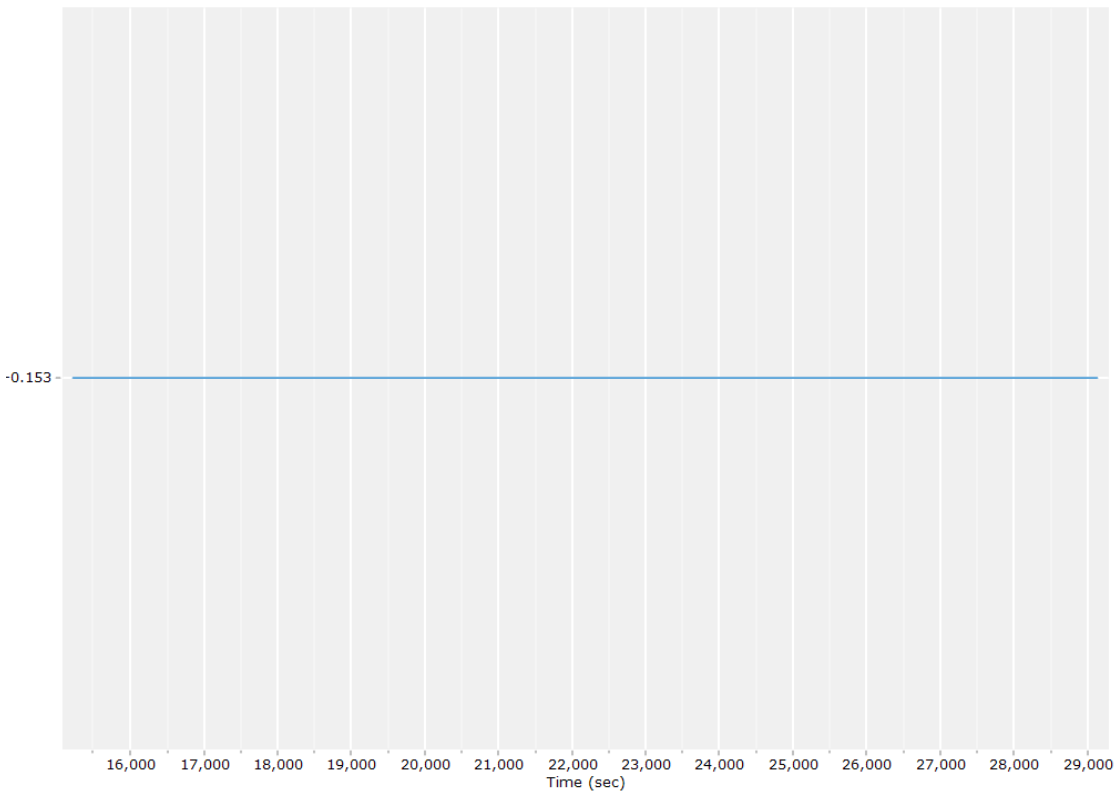
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

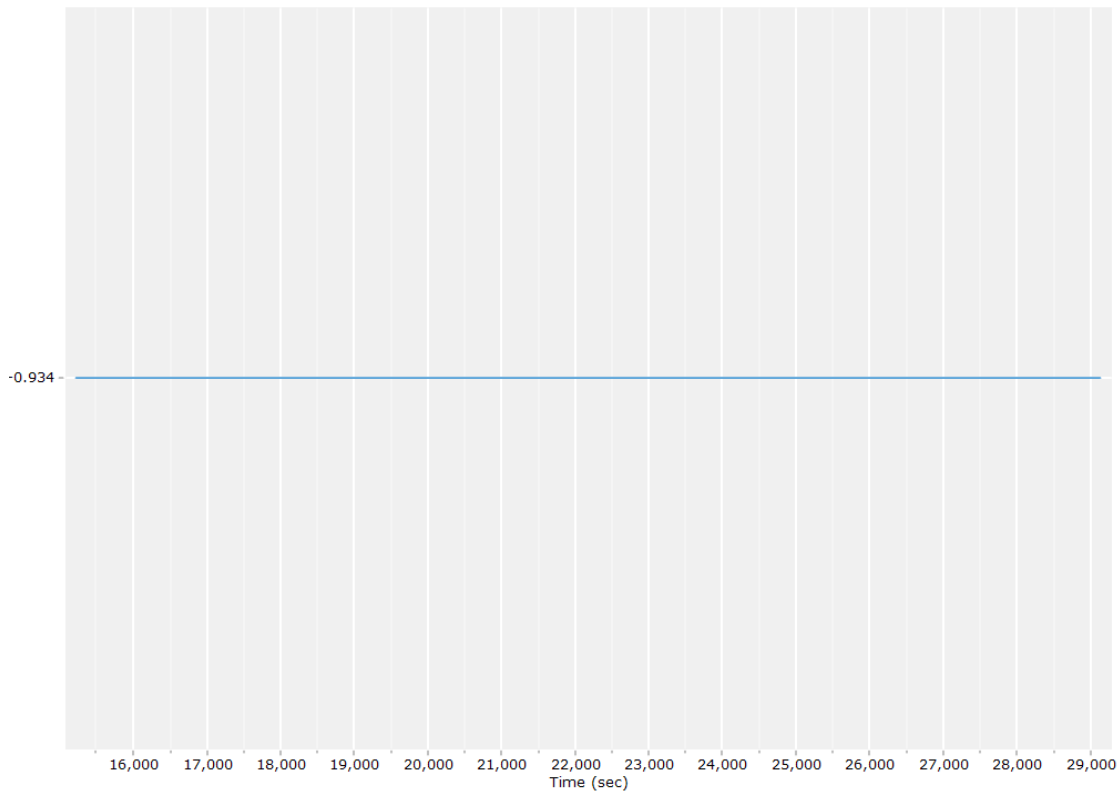
X Reference-Primary GNSS Lever Arm (m)



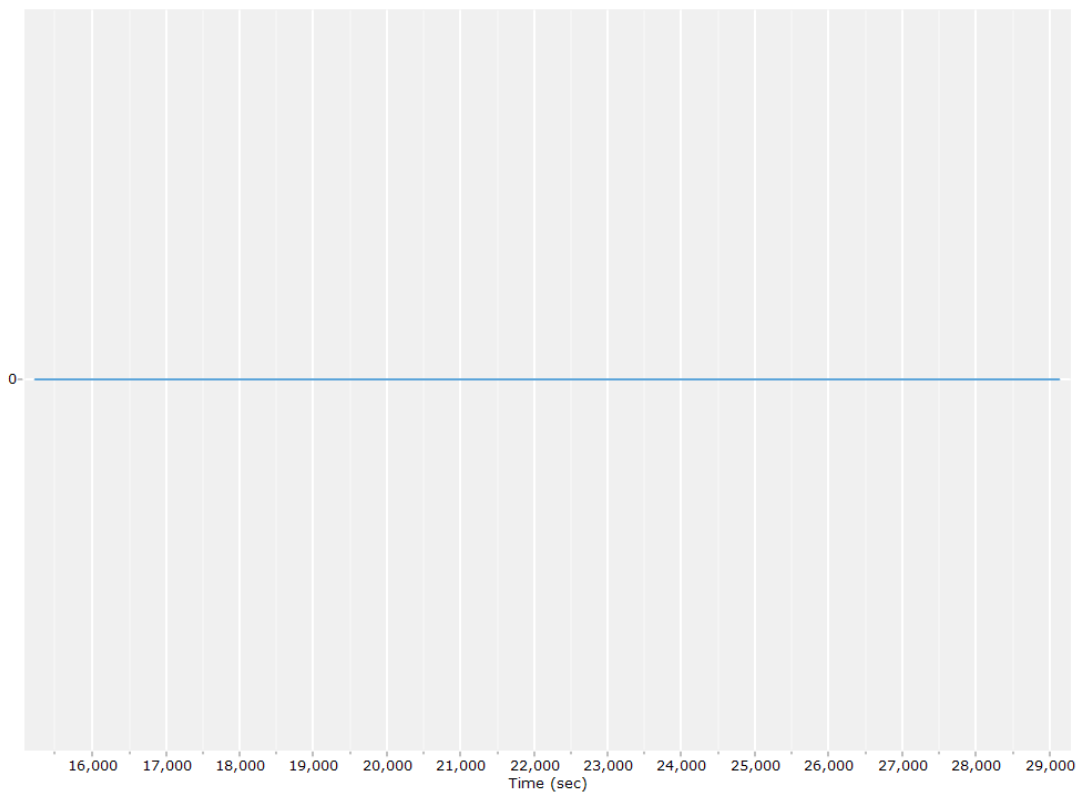
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



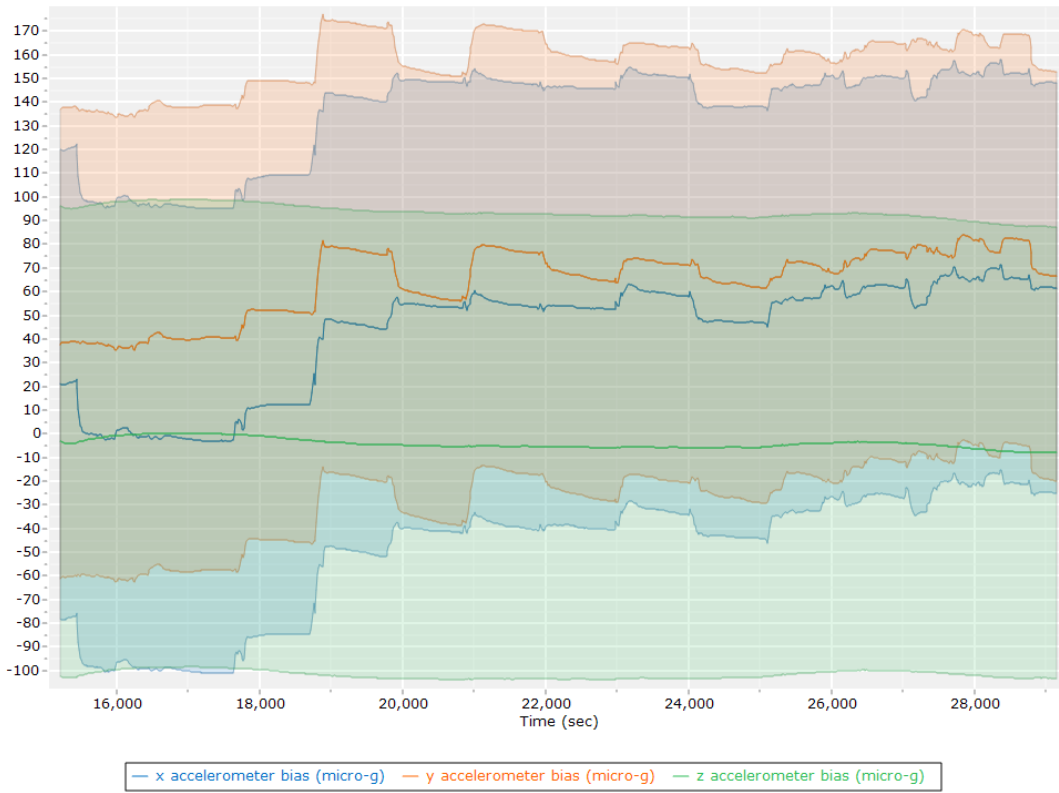
Reference-Primary GNSS Lever Arm Figure of Merit



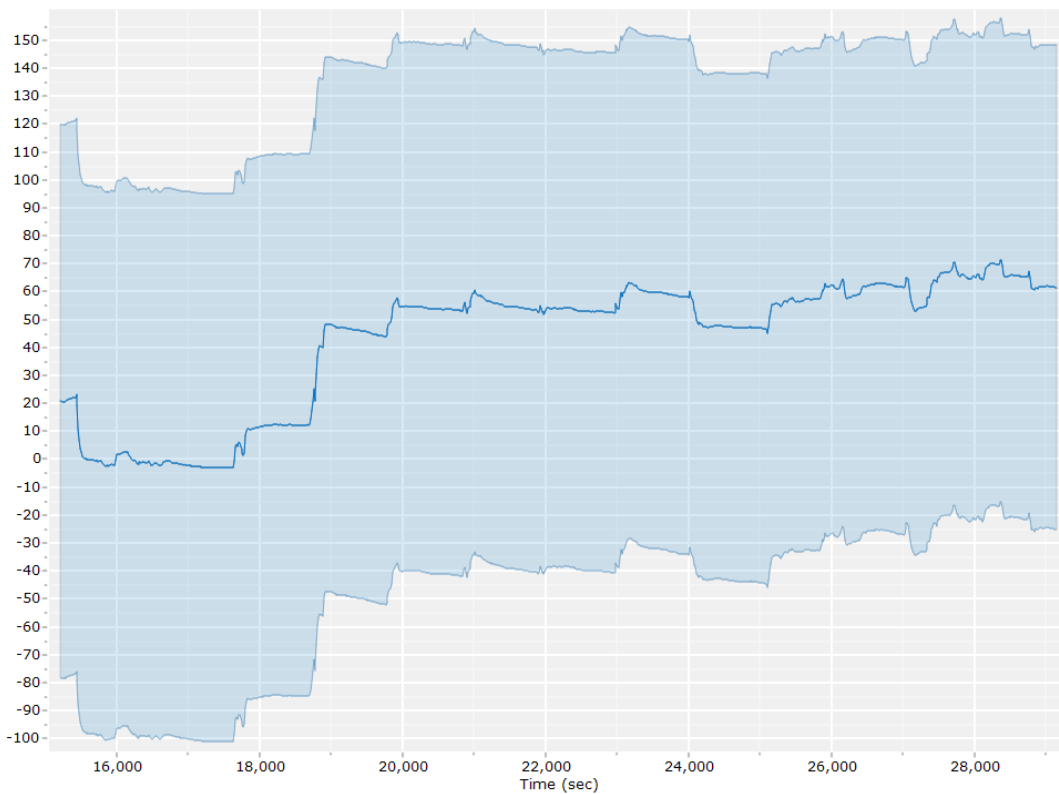
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

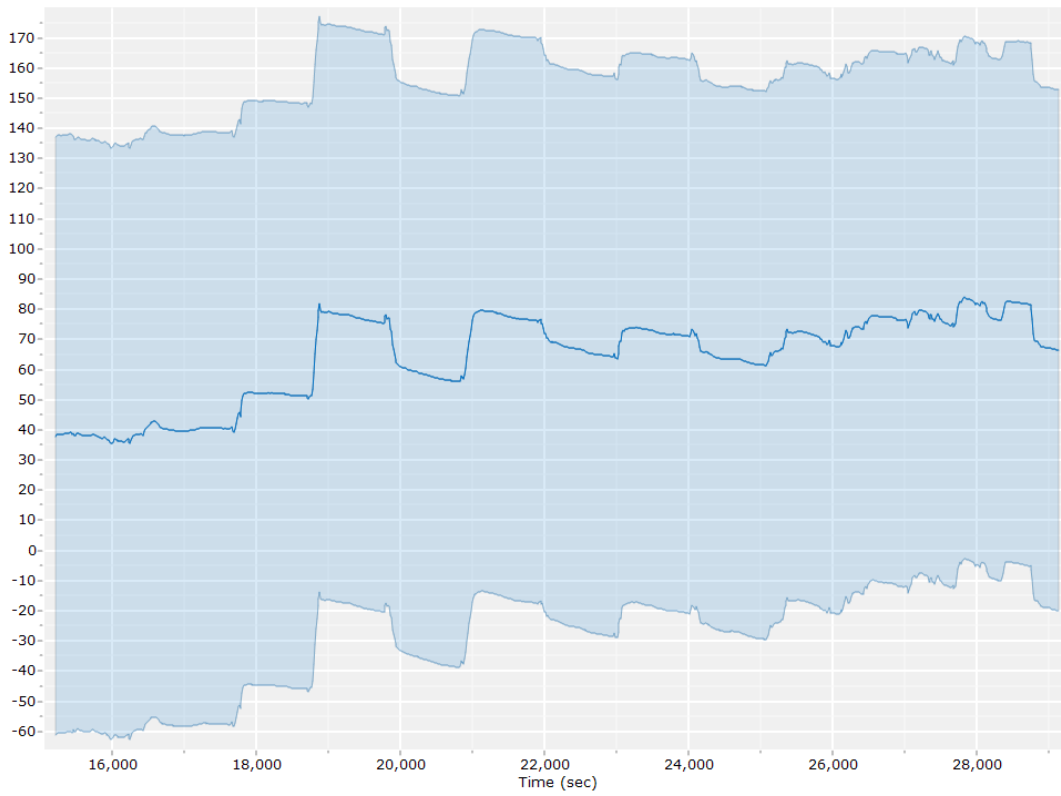
Accelerometer Bias (micro-g)



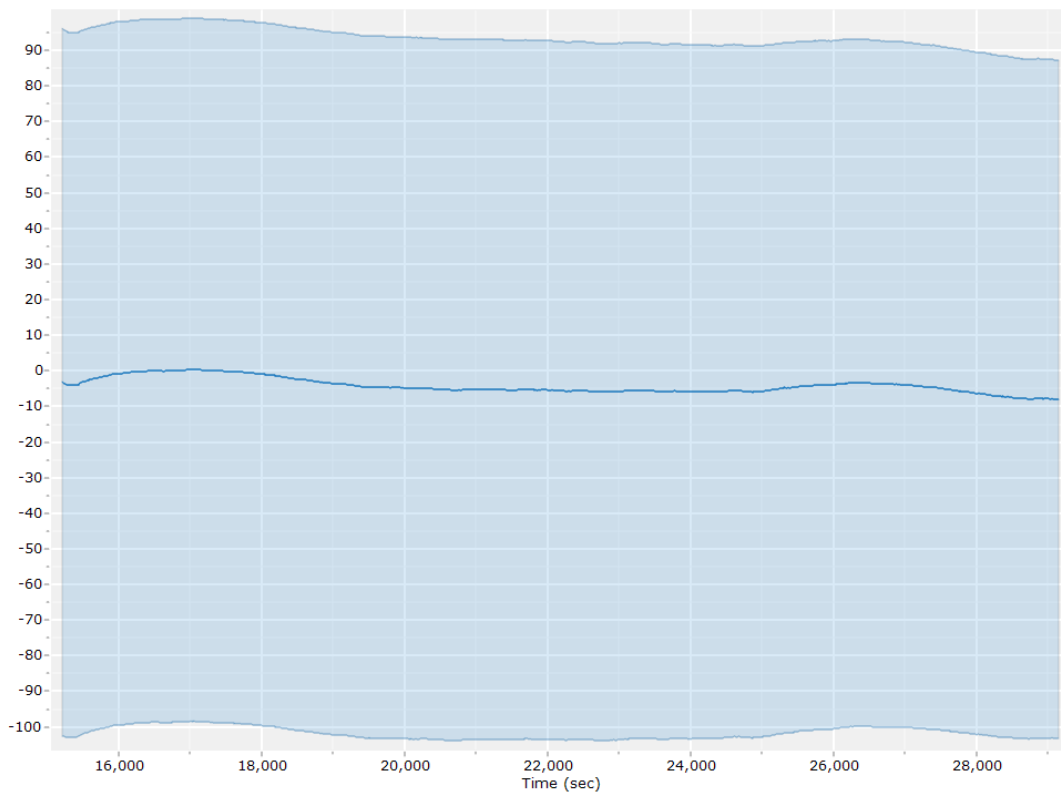
X Accelerometer Bias (micro-g)



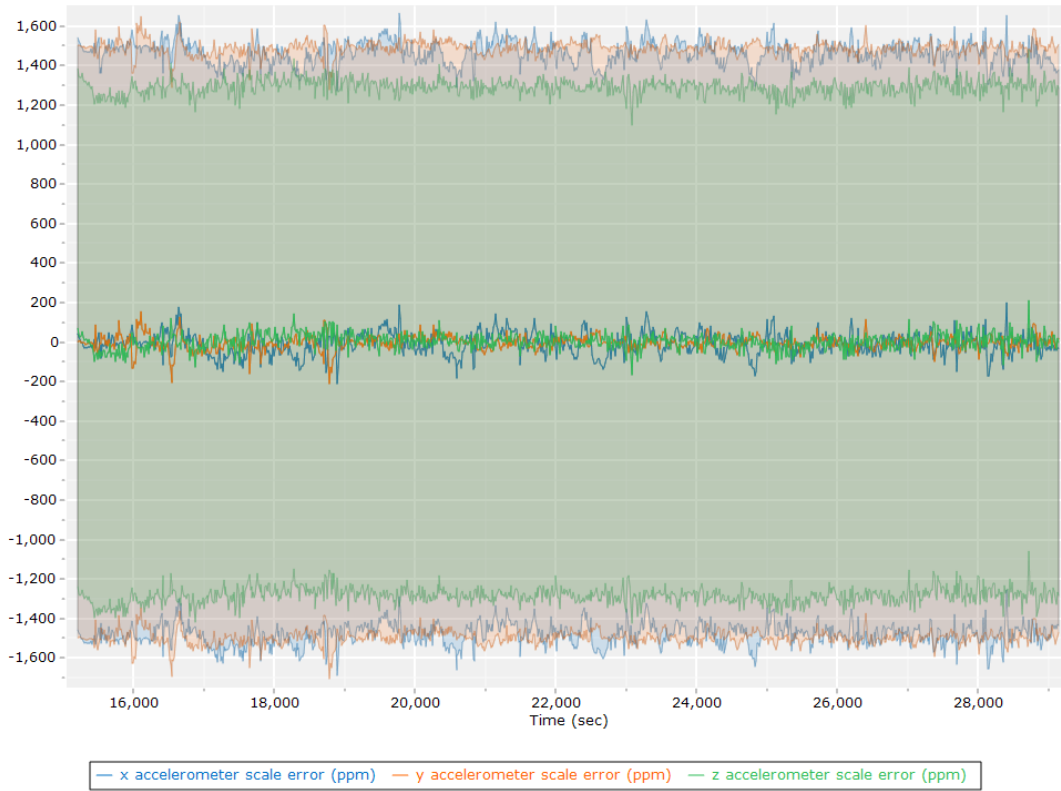
Y Accelerometer Bias (micro-g)



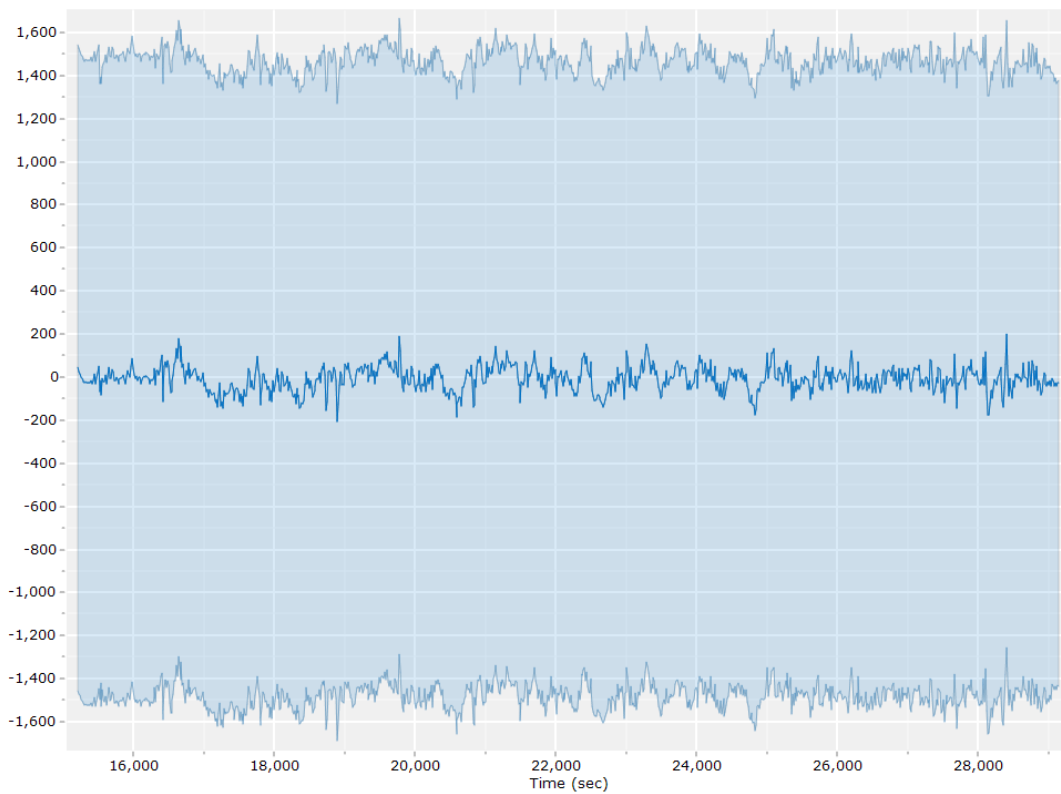
Z Accelerometer Bias (micro-g)



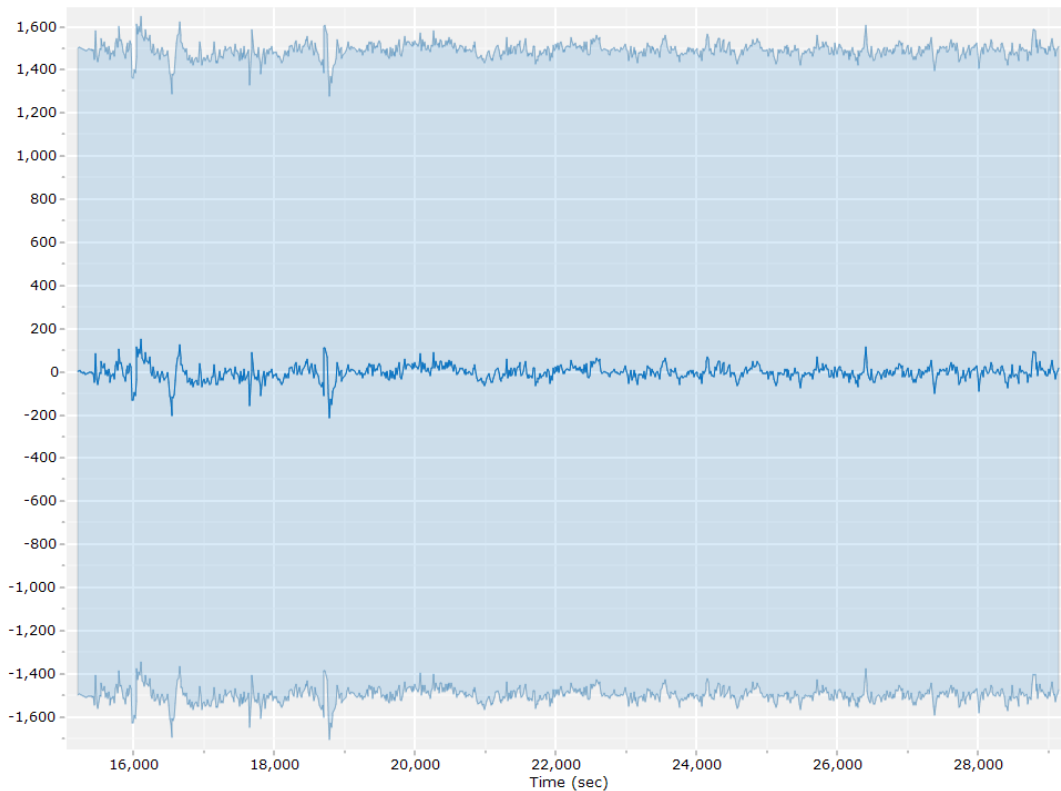
Accelerometer Scale Error (ppm)



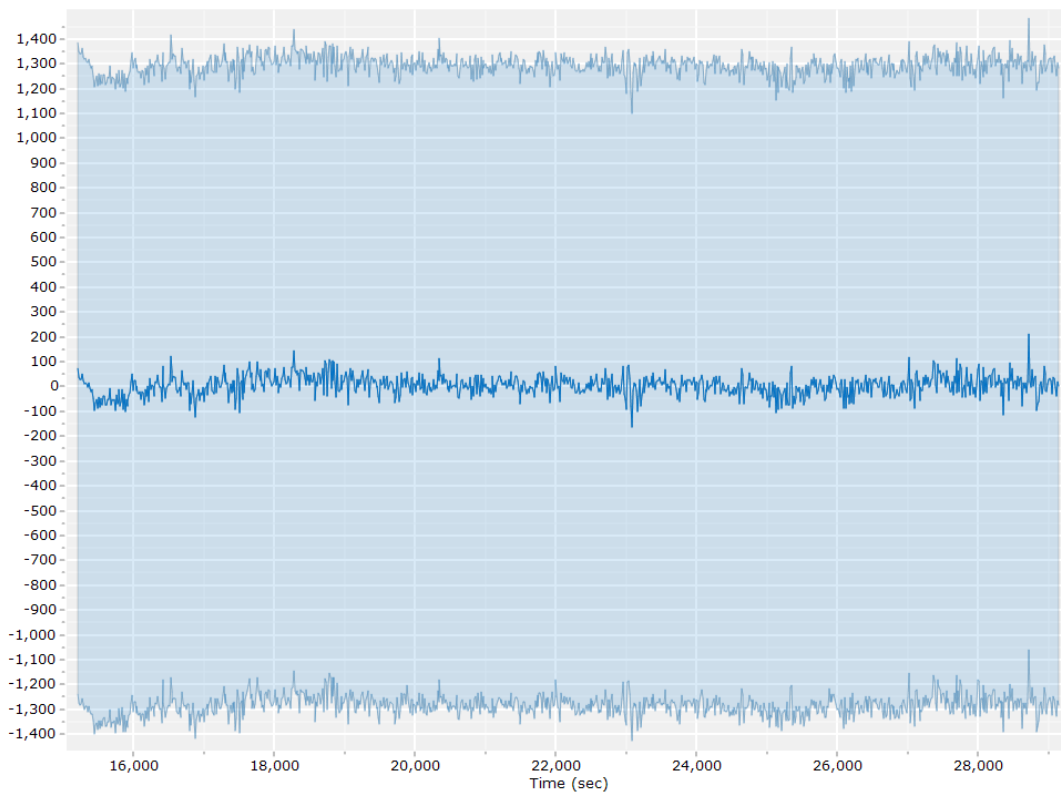
X Accelerometer Scale Error (ppm)



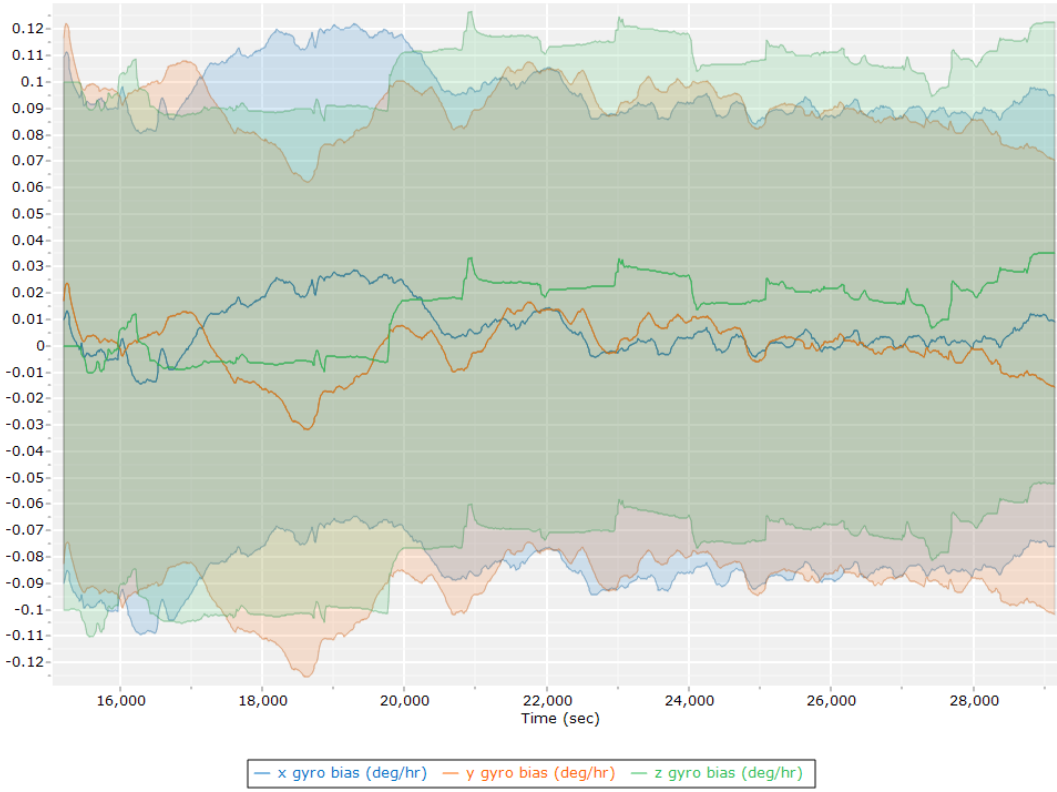
Y Accelerometer Scale Error (ppm)



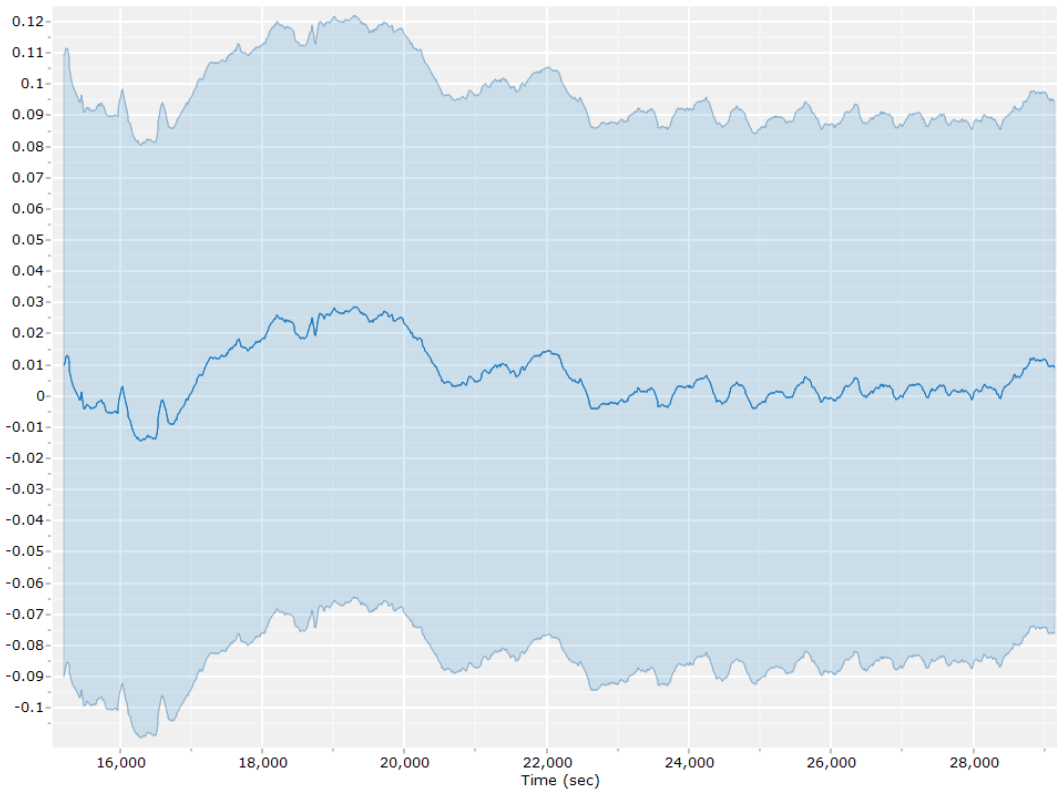
Z Accelerometer Scale Error (ppm)



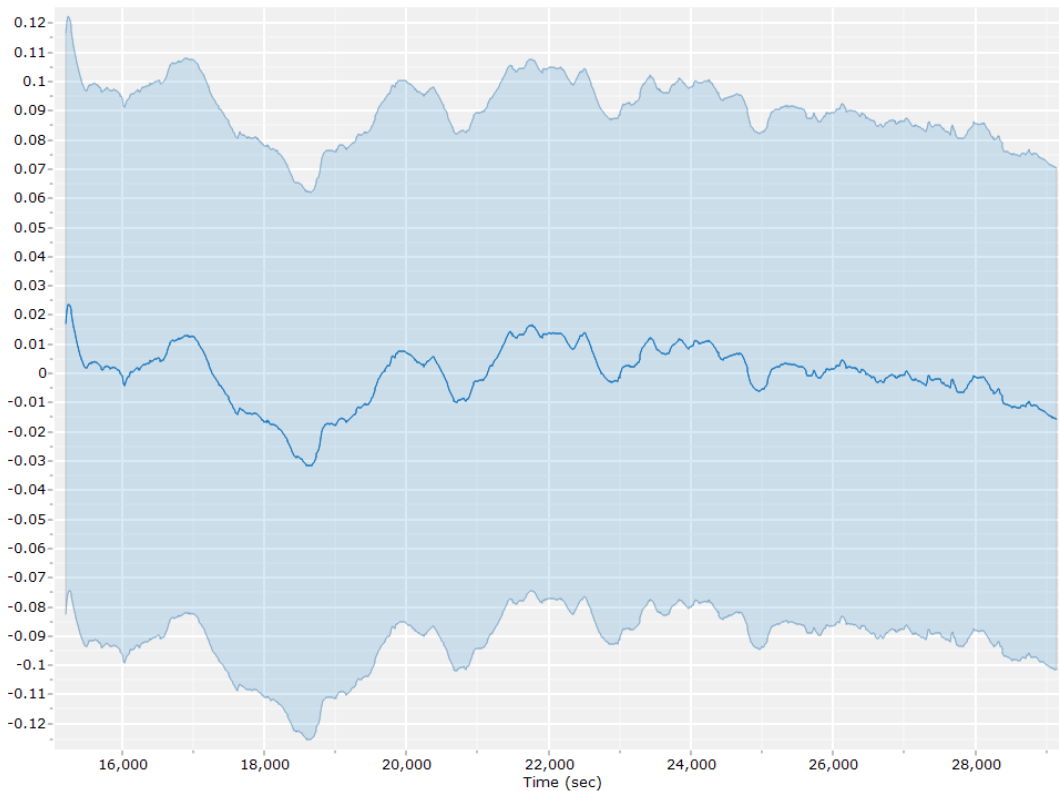
Gyro Bias (deg/h)



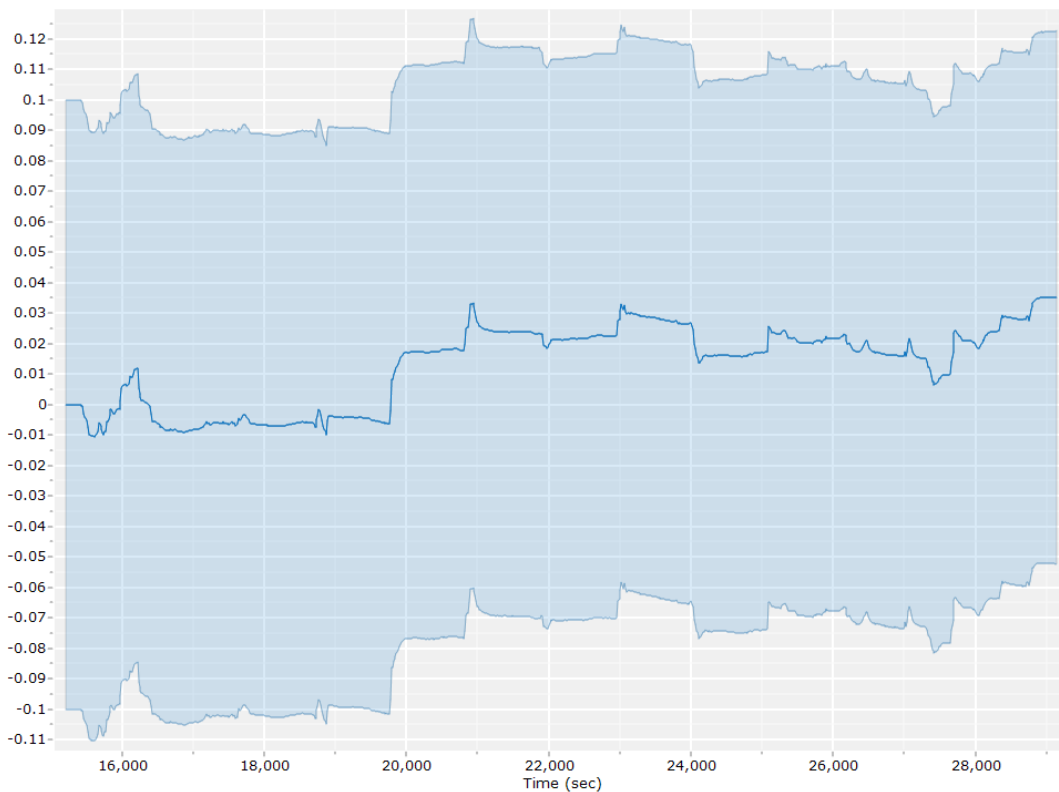
X Gyro Bias (deg/h)



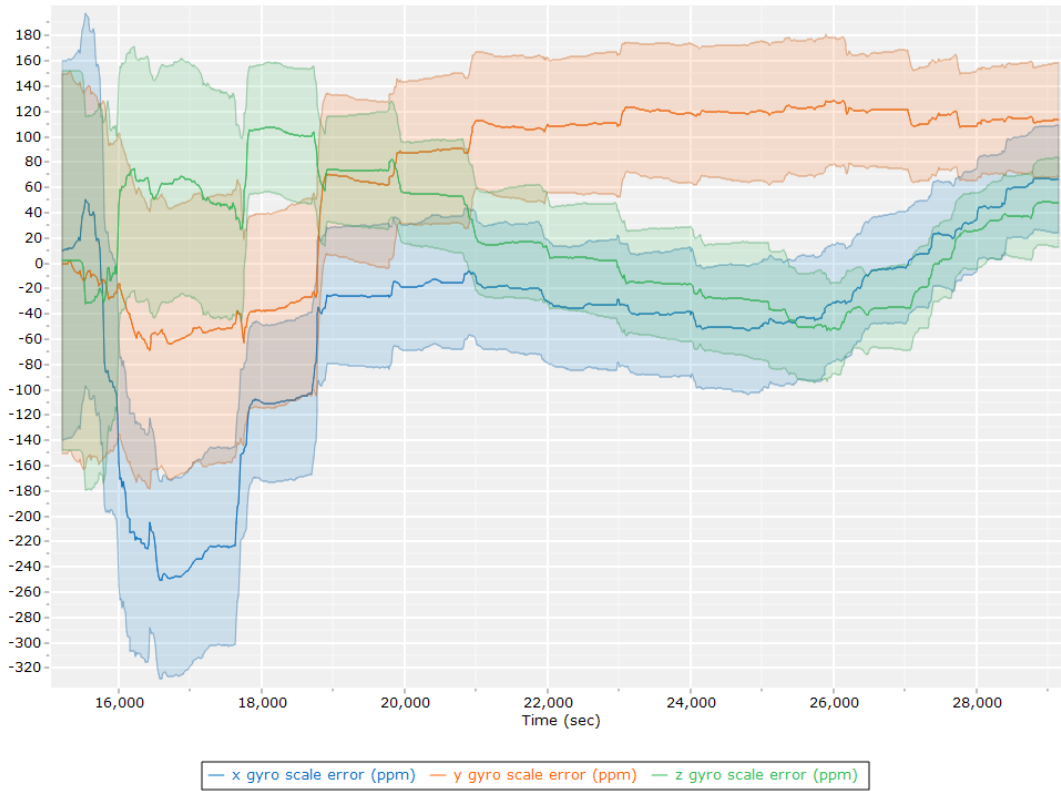
Y Gyro Bias (deg/h)



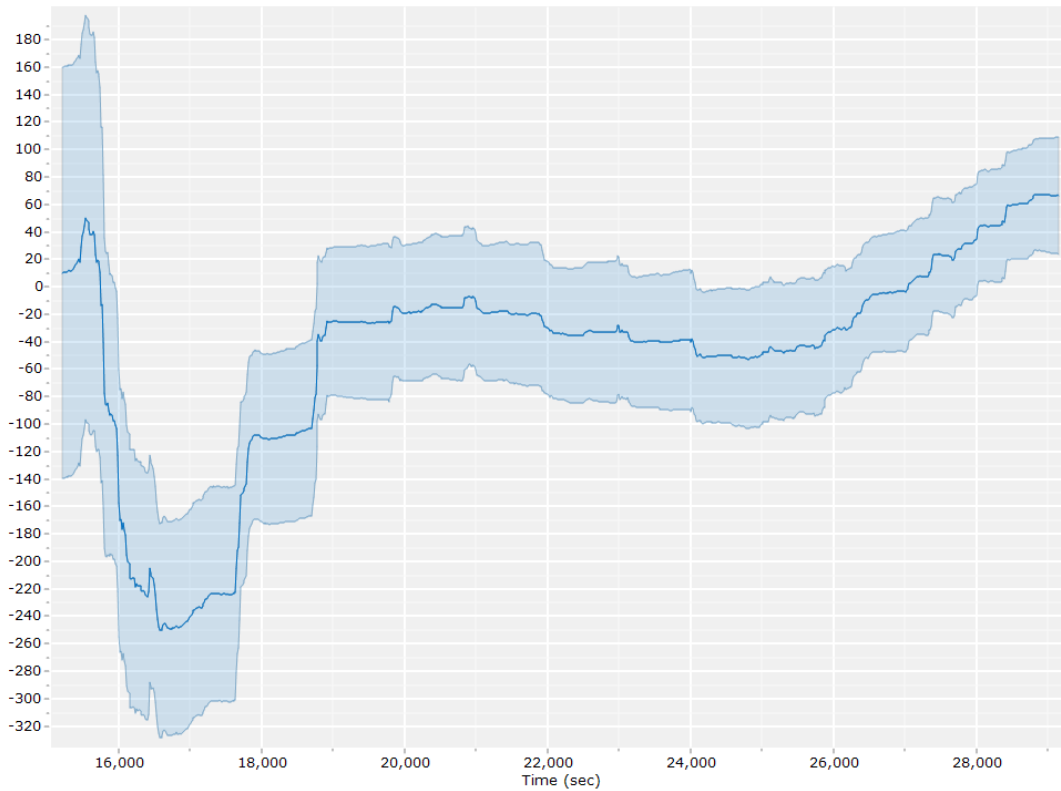
Z Gyro Bias (deg/h)



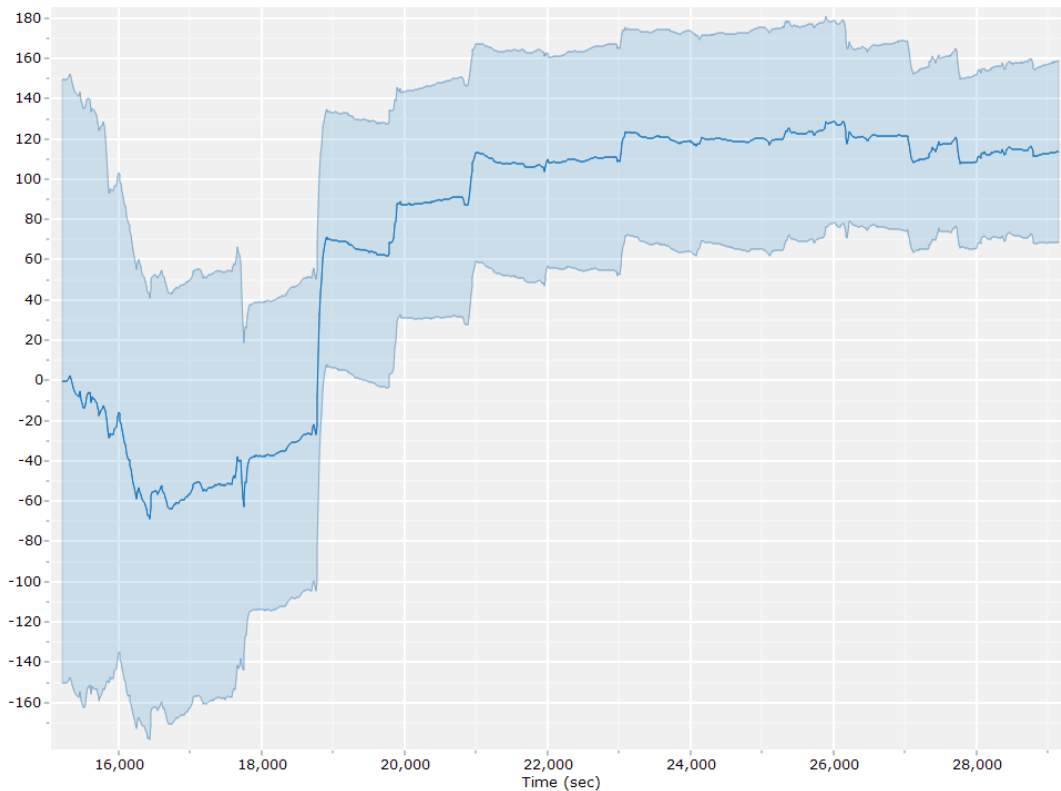
Gyro Scale Error (ppm)



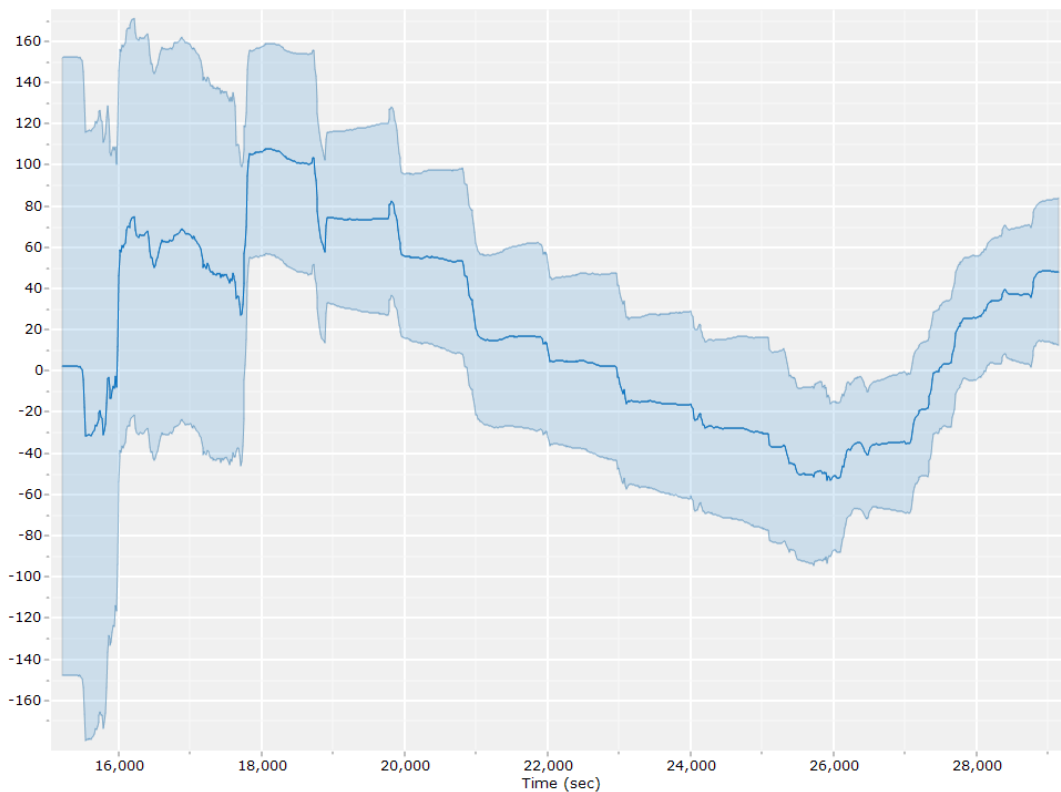
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

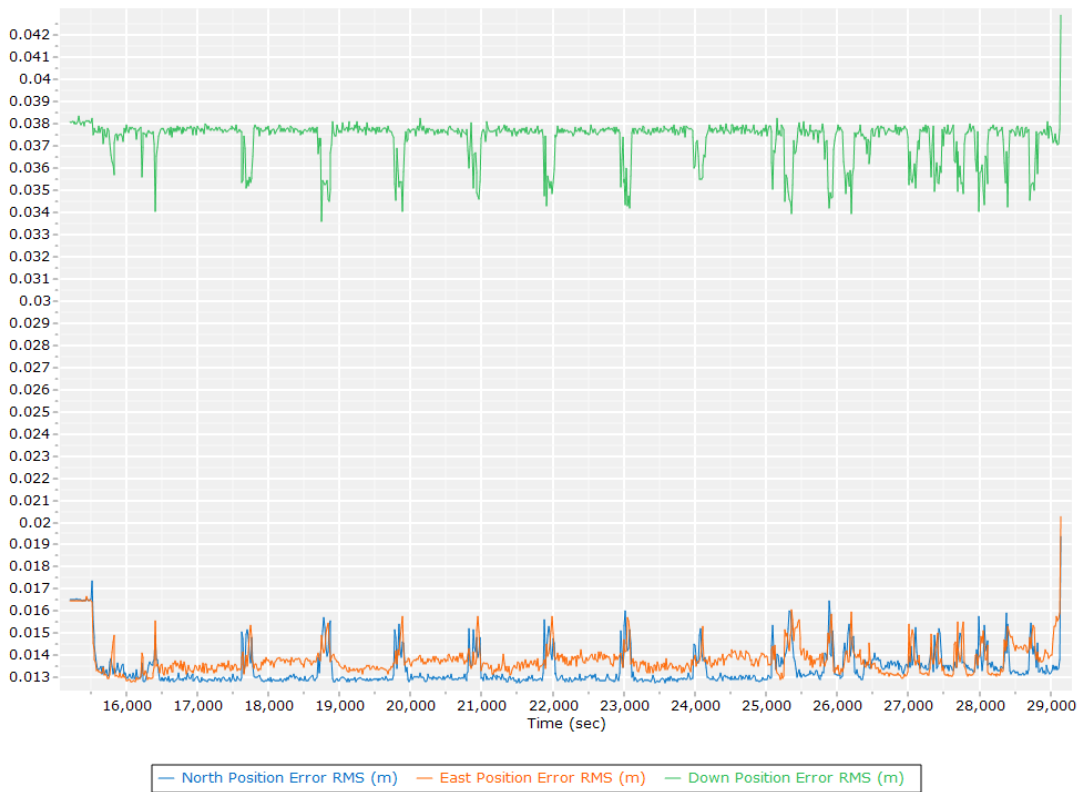


Z Gyro Scale Error (ppm)

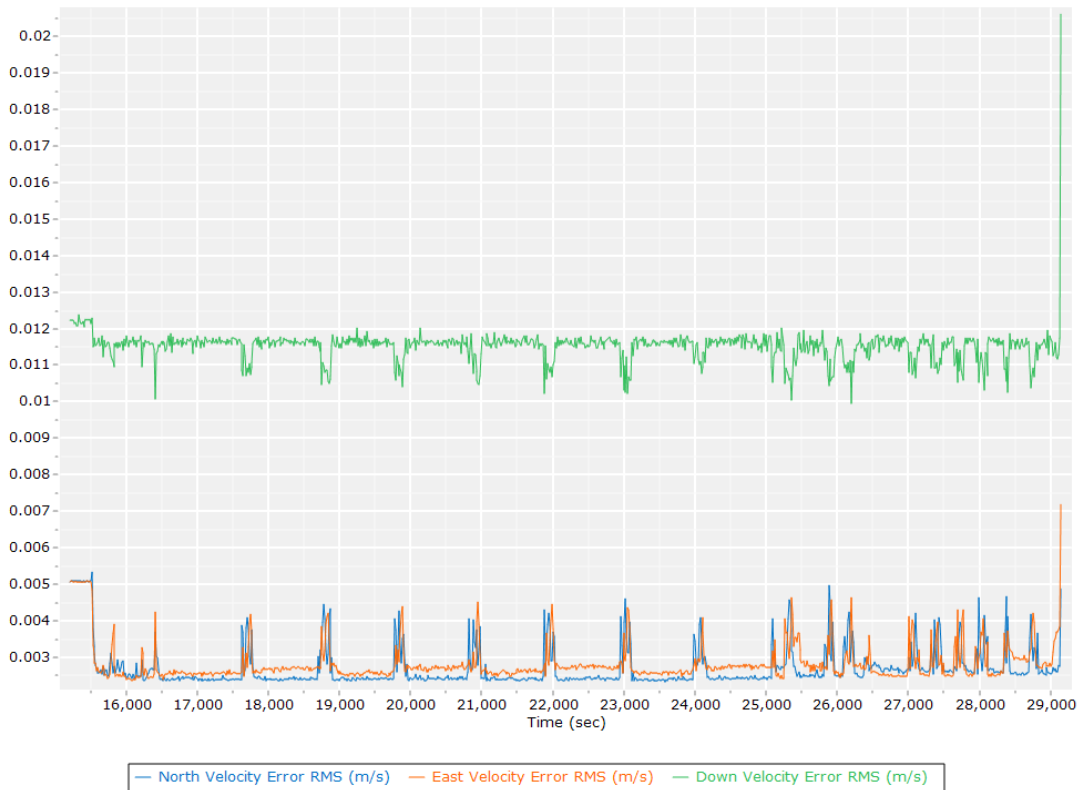


Smoothed Performance Metrics

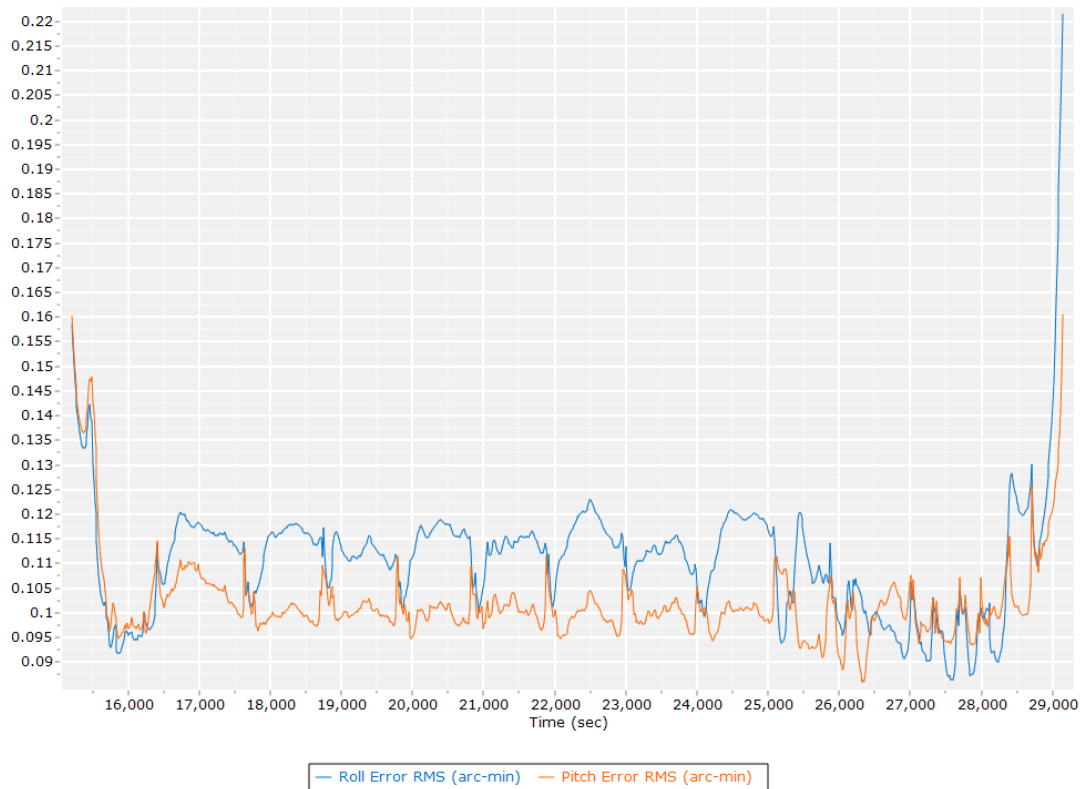
Position Error RMS (m)



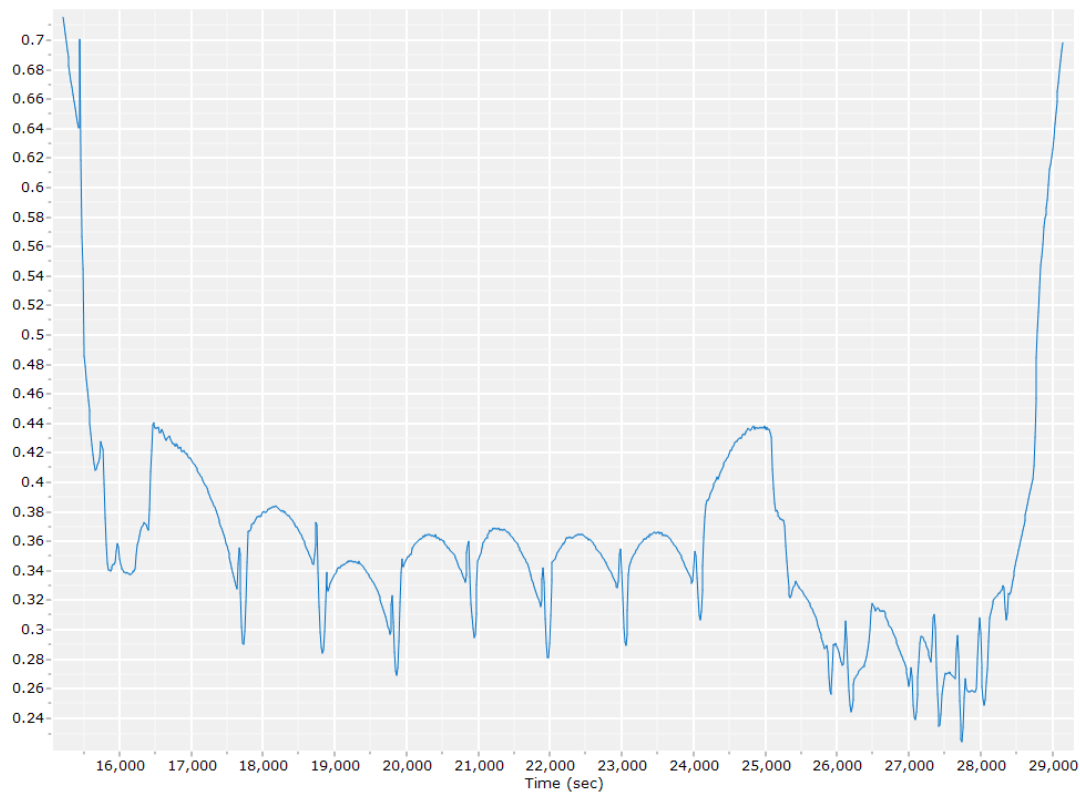
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

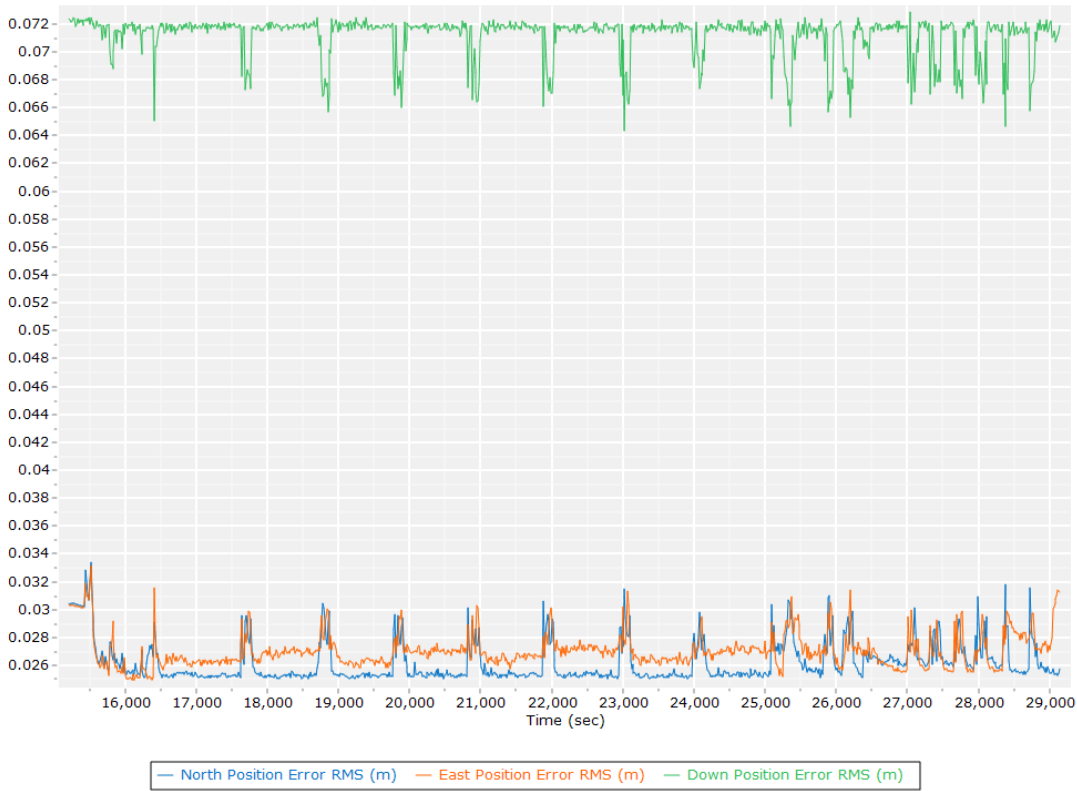


Heading Error RMS (arc-min)



Forward Processed Performance Metrics

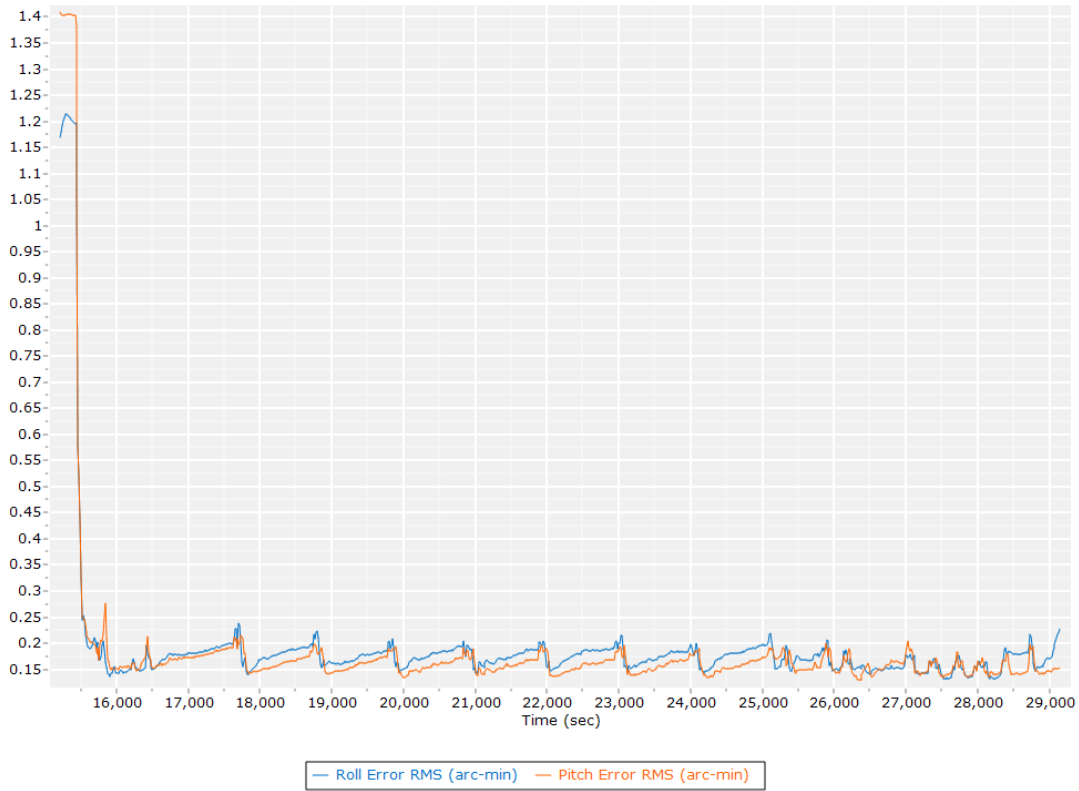
Position Error RMS (m)



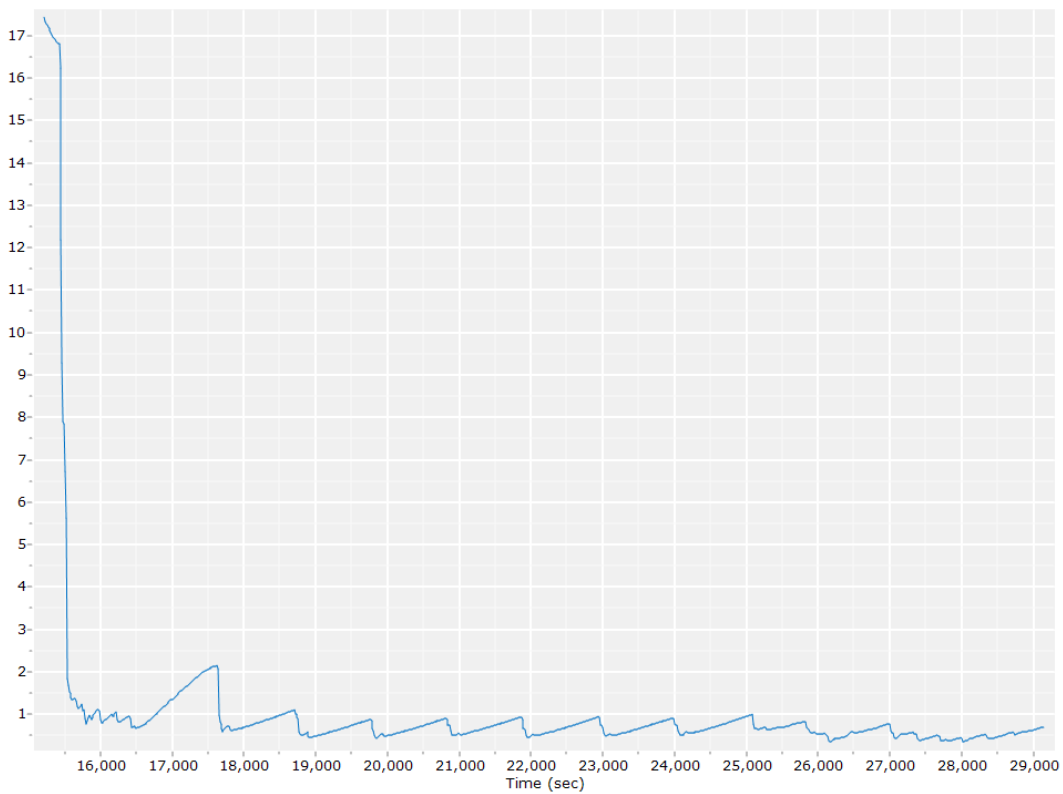
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

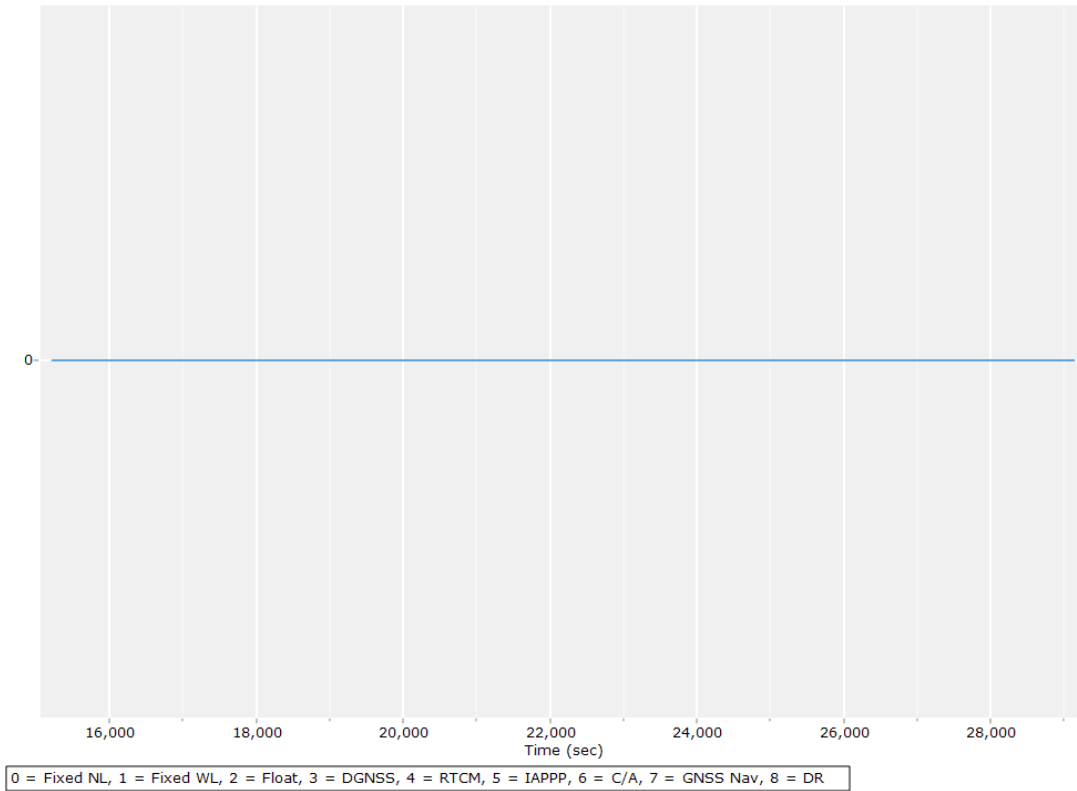


Heading Error RMS (arc-min)

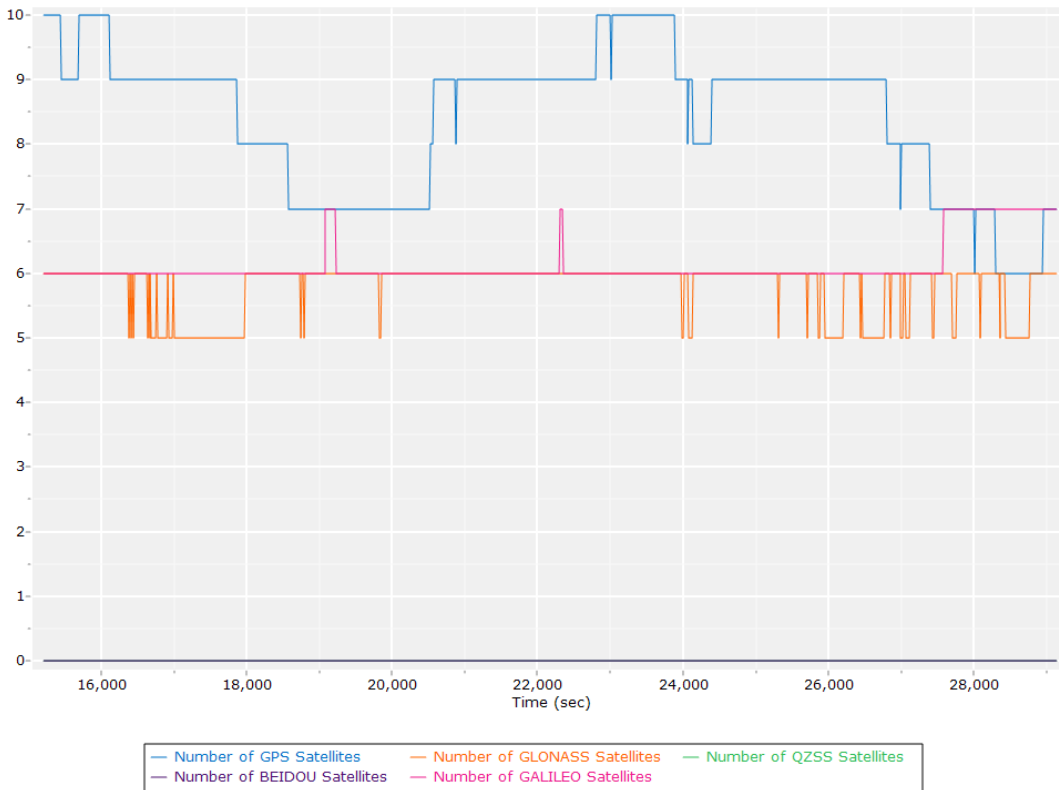


Forward Processed Solution Status

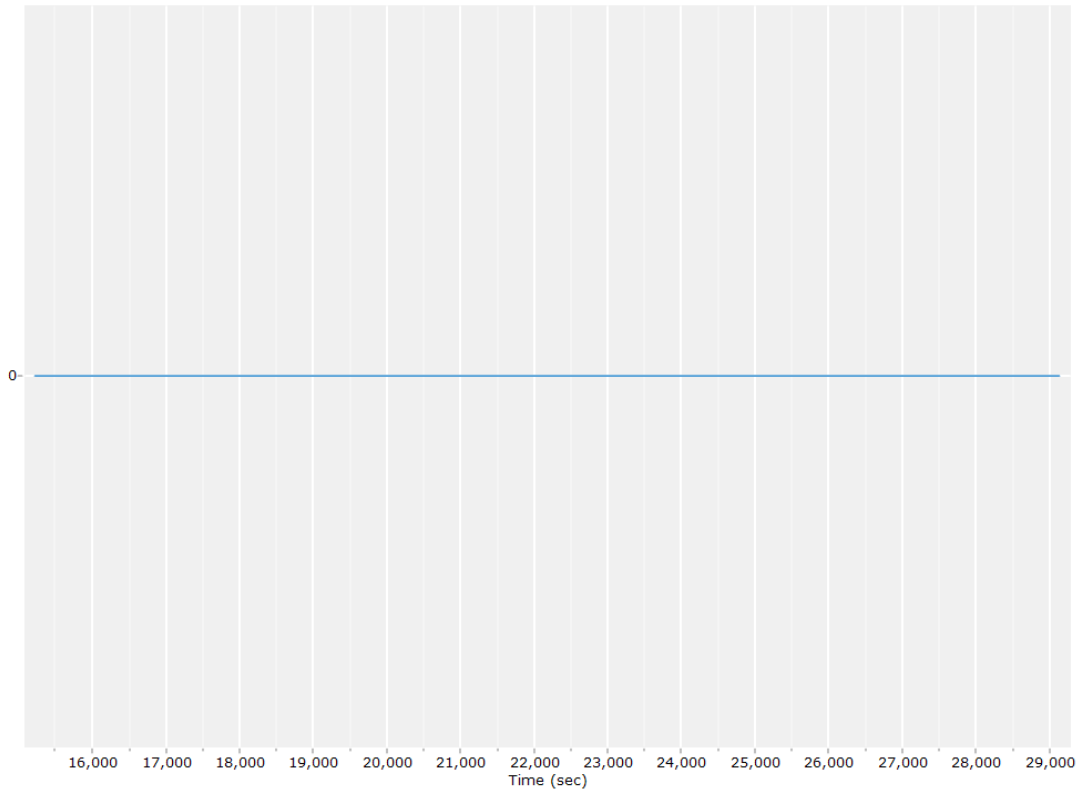
Processing Mode



Number of Satellites



Baseline Length



General Information

Mission Information

Project name	0421_T2L1_pprtx
Processing date	2023-05-01 18:09:35
Mission date	2023-04-21 19:12:59
Mission duration	01:14:52.000
Processing mode	IN-Fusion Autonomous

Rover Hardware Information

Product	POS AV 610 VER6 HW2.5-12
Serial number	S/N11328
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
survey10.pos	POS Data

Input Files

File Name	File Type
Ephm1110.23g	GLONASS Broadcast Ephemeris
Ephm1110.23n	GPS Broadcast Ephemeris

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	survey10.pos		
Last raw data file	survey10.pos		
Start GPS week	2258		
Start time	501178.625 (4/21/2023 7:12:58 PM)		
End time	505670.689 (4/21/2023 8:27:50 PM)		
Start of fine alignment	501315.237 (4/21/2023 7:15:15 PM)		
Available subsystems	Primary GNSS, IMU		
POS Event Input	None		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
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)	0.371	-0.404	-1.111
Reference to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

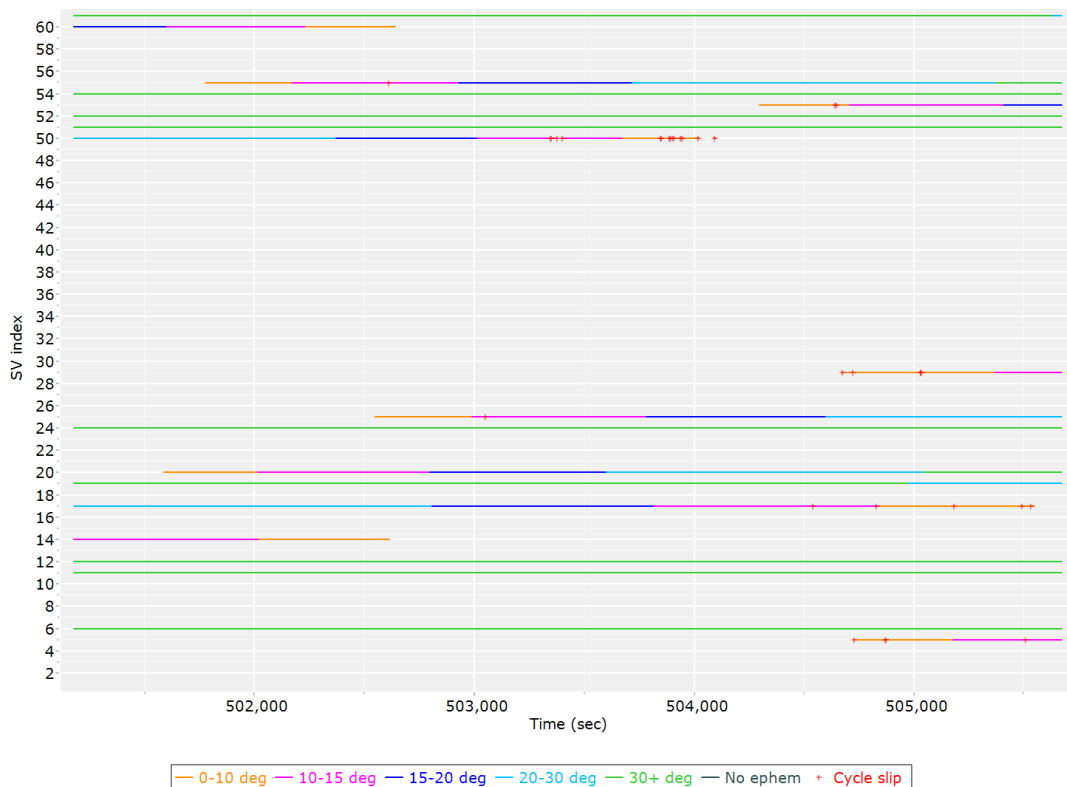
Rover Data QC

Raw IMU Import QC Summary

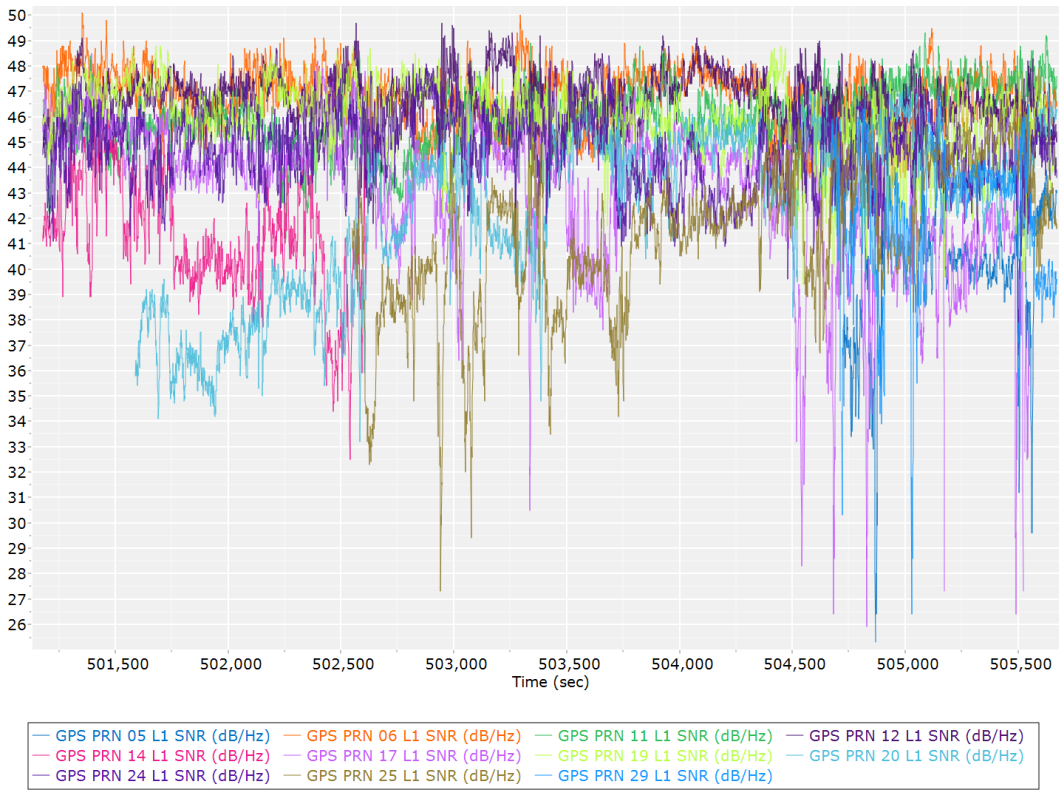
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	898318
Termination Status	Normal
IMU Anomalies	0

Primary Observables & Satellite Data

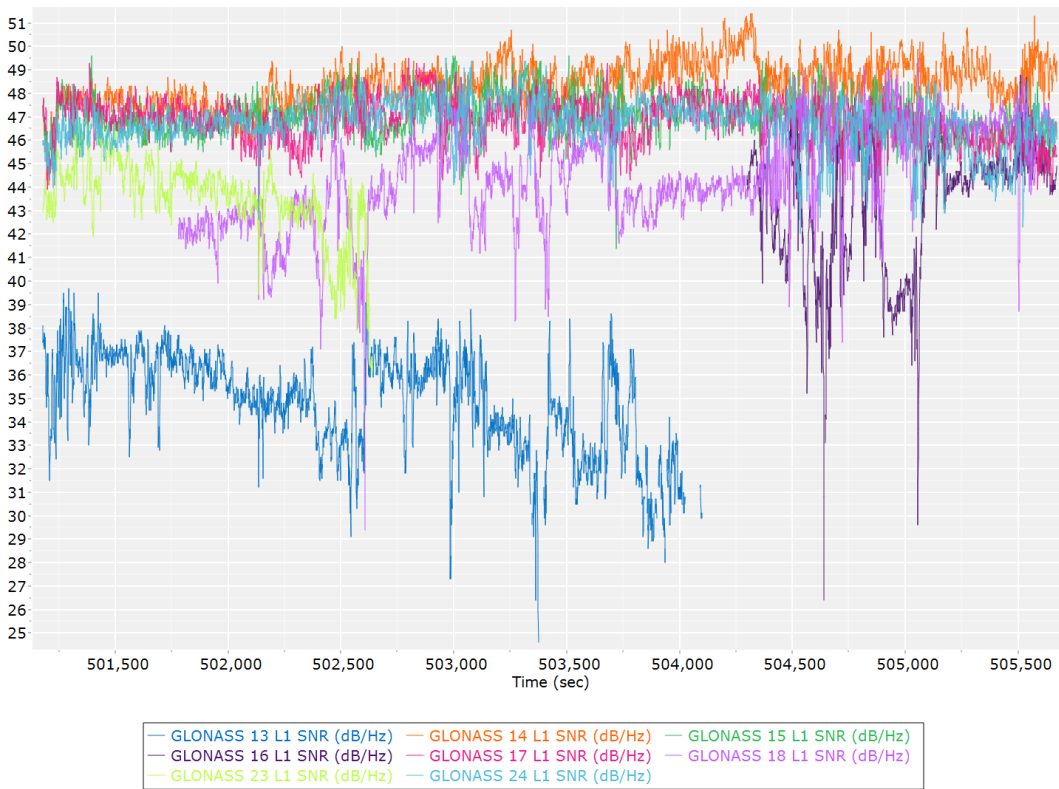
GPS/GLONASS L1 Satellite Lock/Elevation



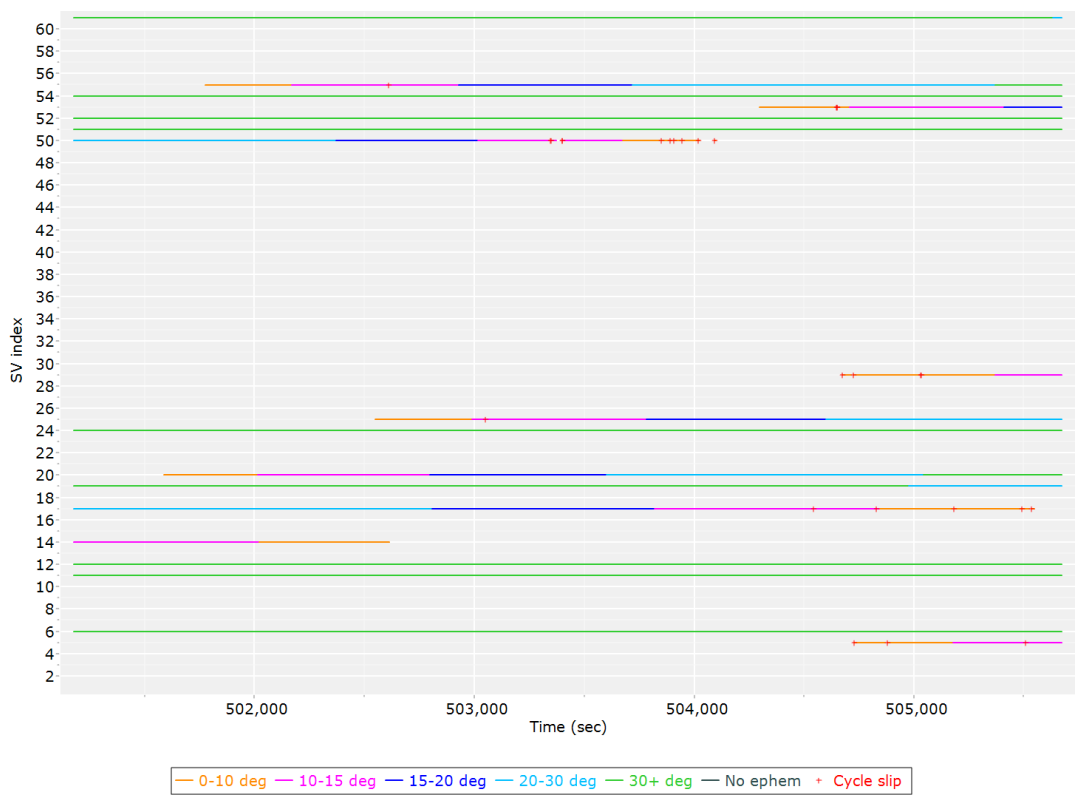
GPS L1 SNR



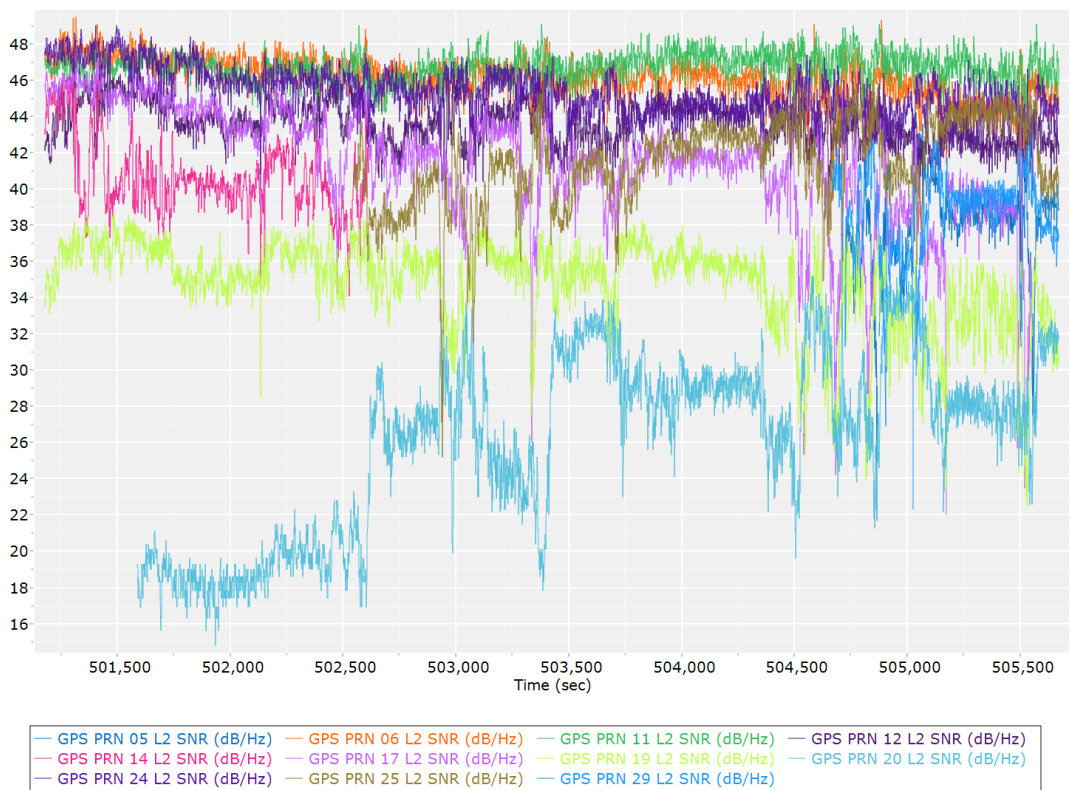
GLONASS L1 SNR



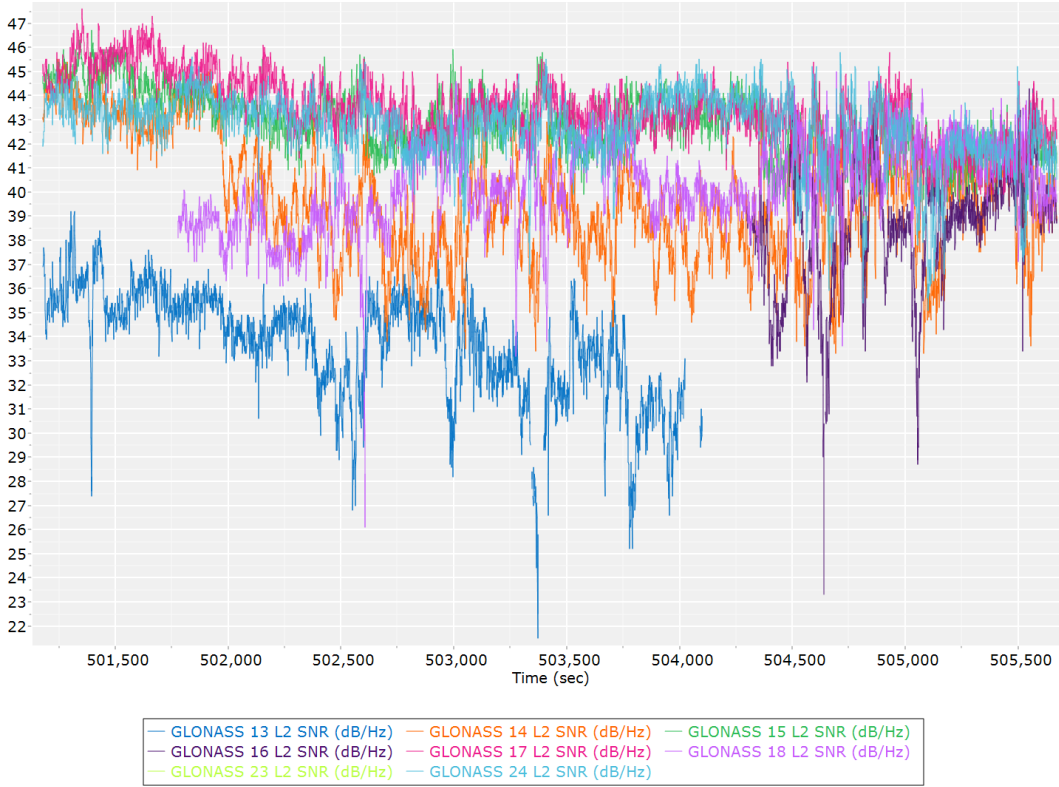
GPS/GLONASS L2 Satellite Lock/Elevation



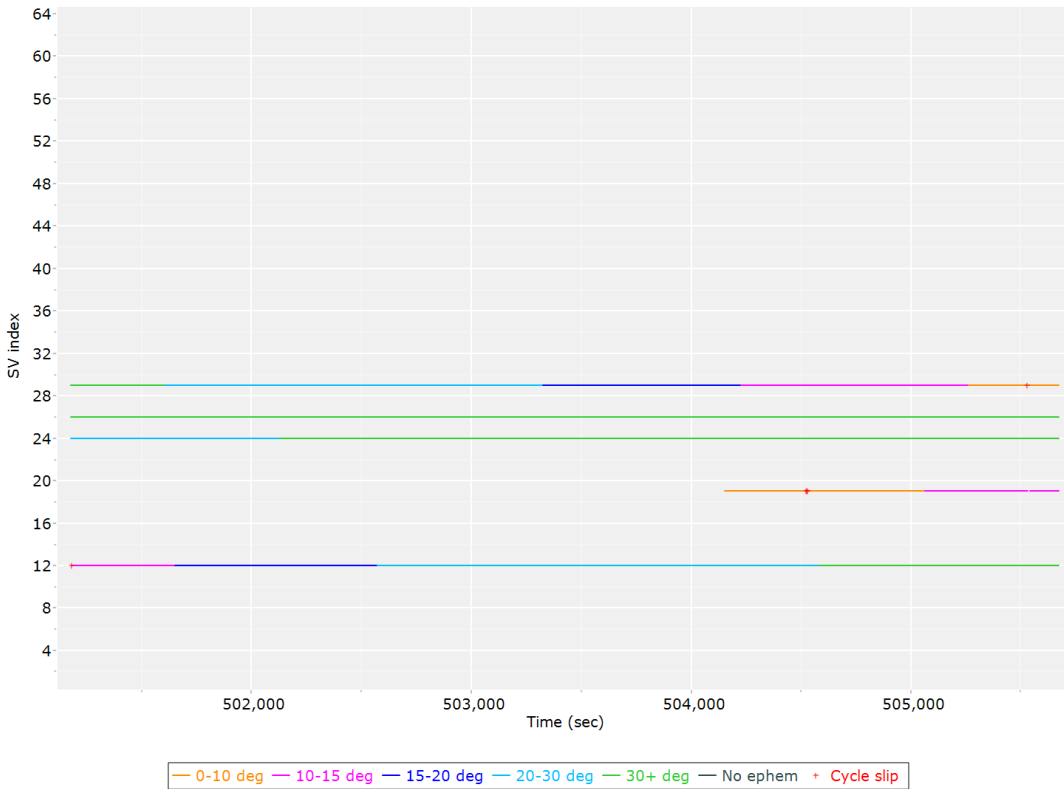
GPS L2 SNR



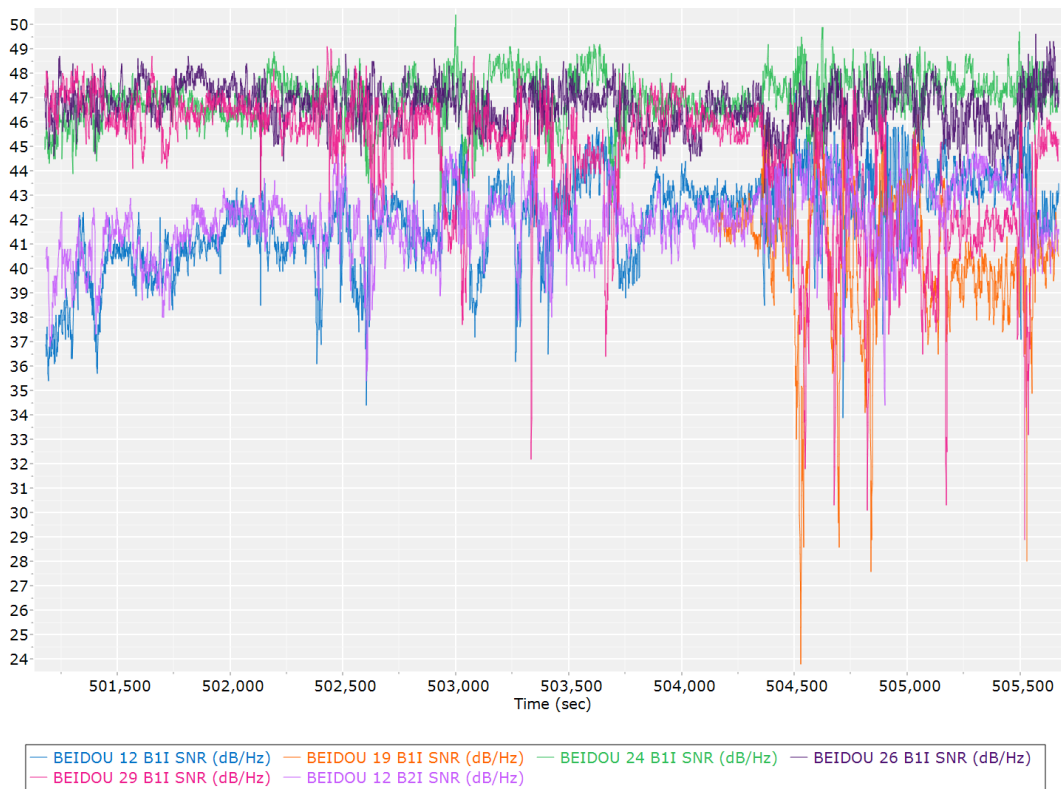
GLONASS L2 SNR



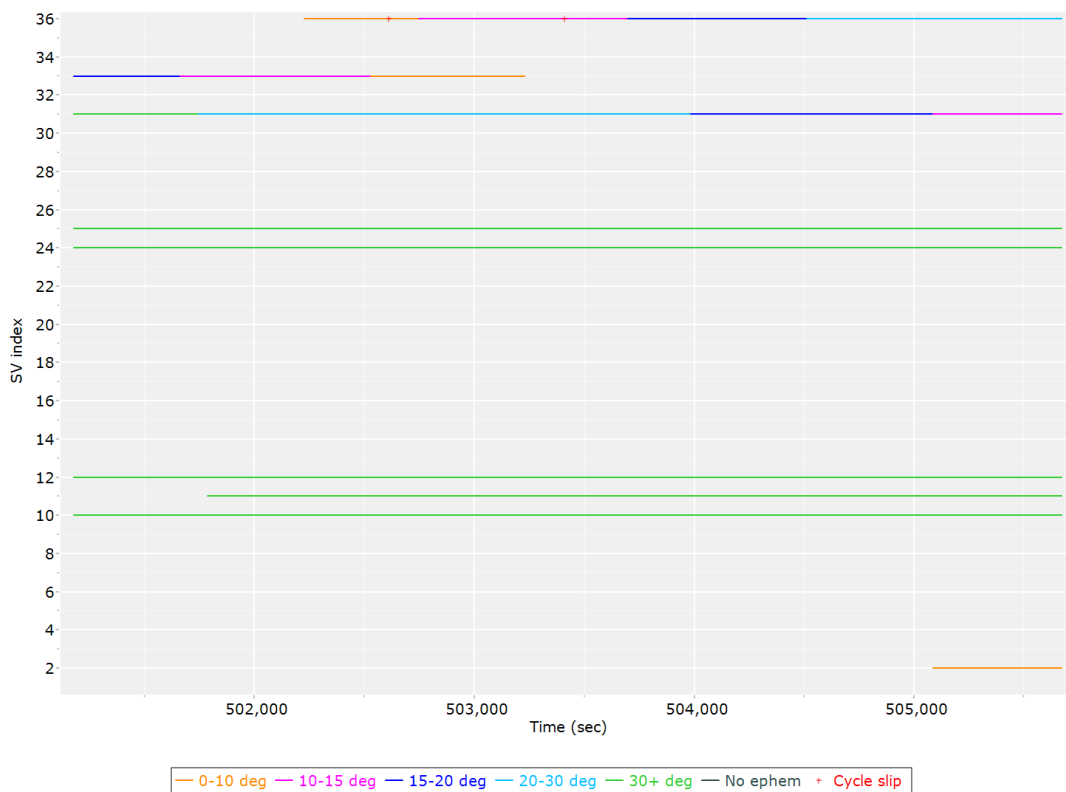
BEIDOU Satellite Lock/Elevation



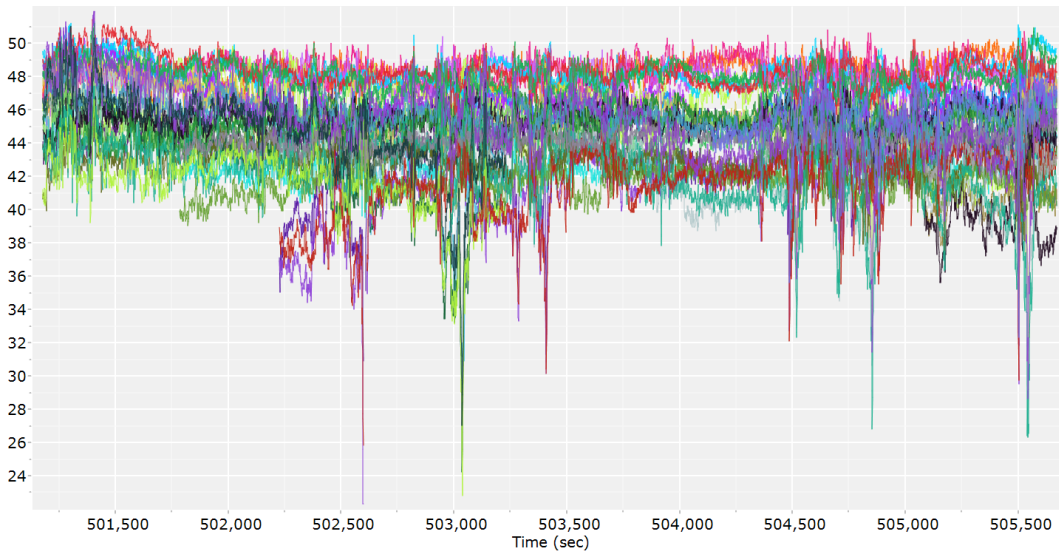
BEIDOU SNR



GALILEO Satellite Lock/Elevation



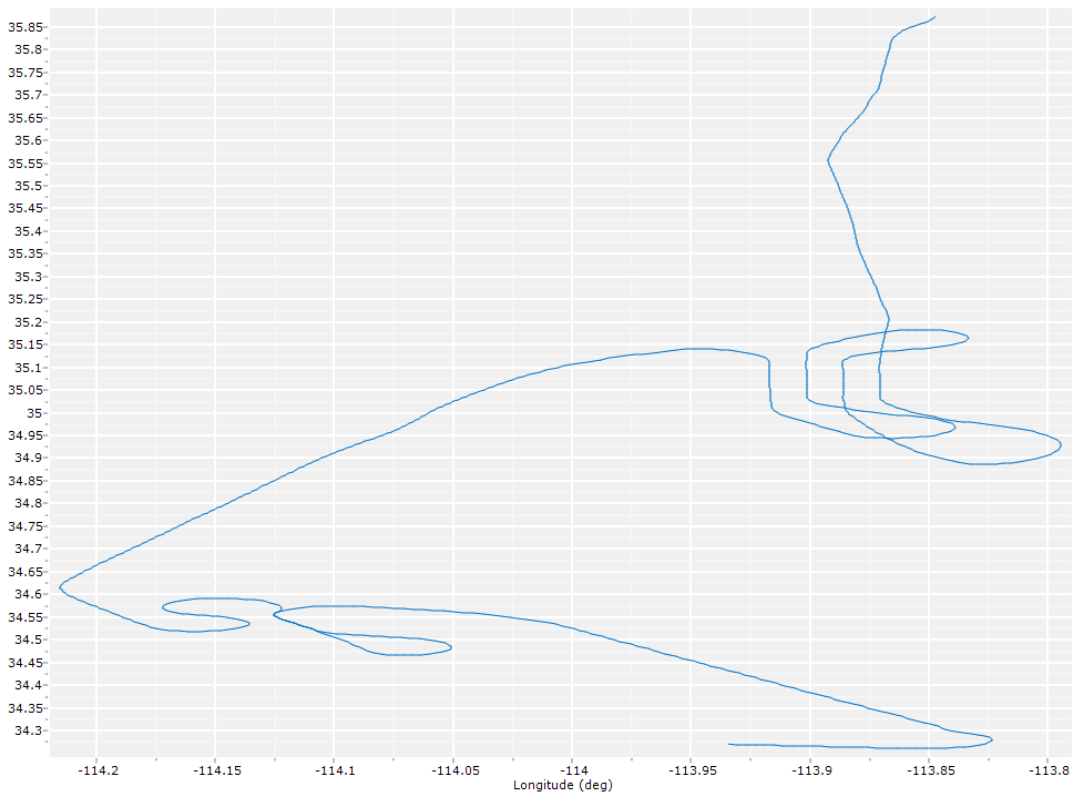
GALILEO SNR



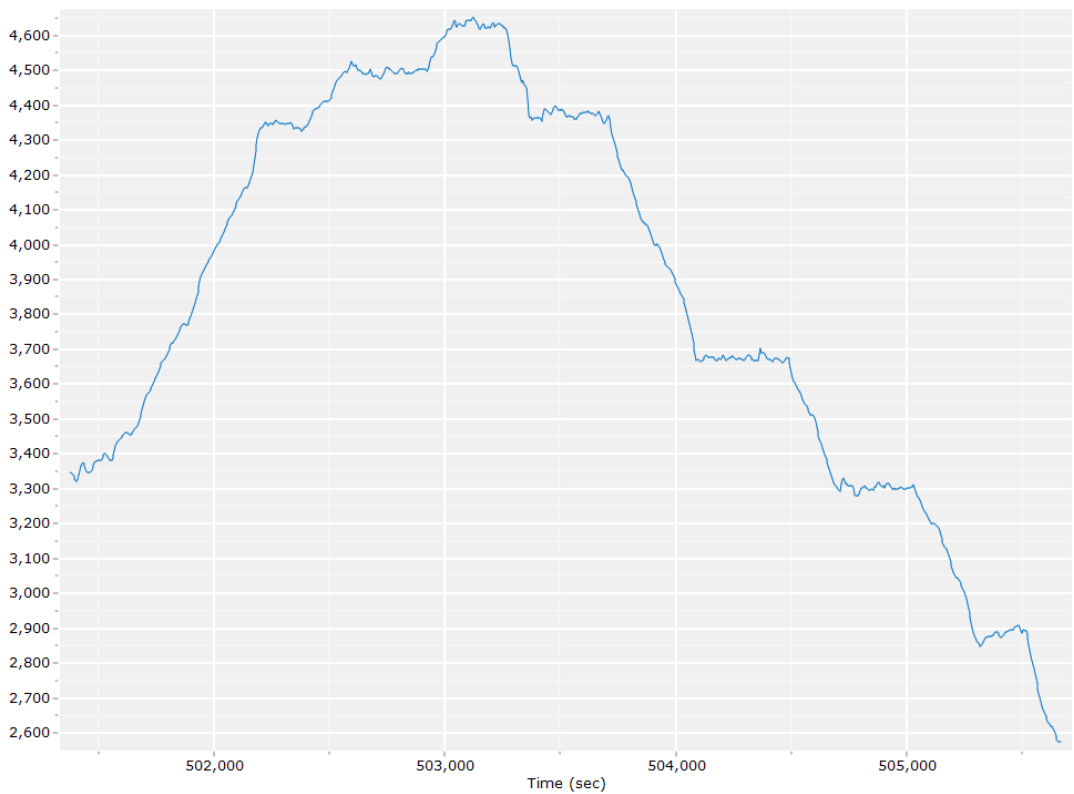
— GALILEO 02 E1CBOC SNR (dB/Hz)	— GALILEO 10 E1CBOC SNR (dB/Hz)	— GALILEO 11 E1CBOC SNR (dB/Hz)
— GALILEO 12 E1CBOC SNR (dB/Hz)	— GALILEO 24 E1CBOC SNR (dB/Hz)	— GALILEO 25 E1CBOC SNR (dB/Hz)
— GALILEO 31 E1CBOC SNR (dB/Hz)	— GALILEO 33 E1CBOC SNR (dB/Hz)	— GALILEO 36 E1CBOC SNR (dB/Hz)
— GALILEO 02 E5A SNR (dB/Hz)	— GALILEO 10 E5A SNR (dB/Hz)	— GALILEO 11 E5A SNR (dB/Hz)
— GALILEO 12 E5A SNR (dB/Hz)	— GALILEO 24 E5A SNR (dB/Hz)	— GALILEO 25 E5A SNR (dB/Hz)
— GALILEO 31 E5A SNR (dB/Hz)	— GALILEO 33 E5A SNR (dB/Hz)	— GALILEO 36 E5A SNR (dB/Hz)
— GALILEO 02 E5B SNR (dB/Hz)	— GALILEO 10 E5B SNR (dB/Hz)	— GALILEO 11 E5B SNR (dB/Hz)
— GALILEO 12 E5B SNR (dB/Hz)	— GALILEO 24 E5B SNR (dB/Hz)	— GALILEO 25 E5B SNR (dB/Hz)
— GALILEO 31 E5B SNR (dB/Hz)	— GALILEO 33 E5B SNR (dB/Hz)	— GALILEO 36 E5B SNR (dB/Hz)
— GALILEO 02 E5Alt SNR (dB/Hz)	— GALILEO 10 E5Alt SNR (dB/Hz)	— GALILEO 11 E5Alt SNR (dB/Hz)

Smoothed Trajectory Information

Top View



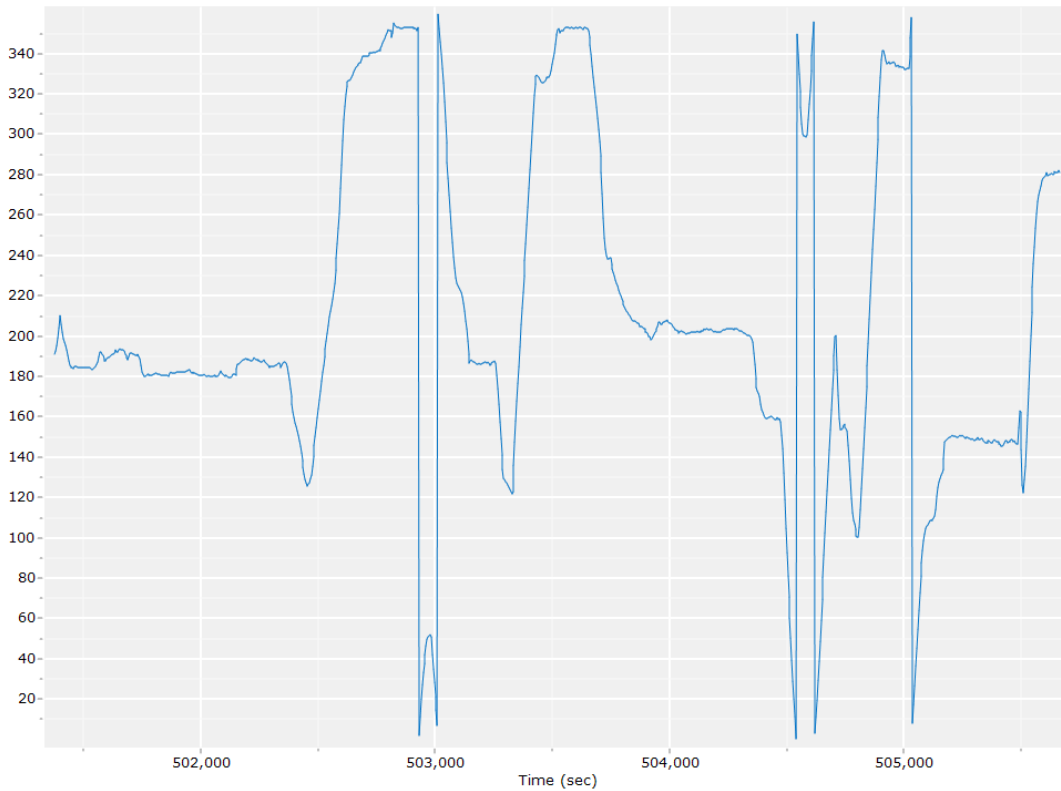
Altitude



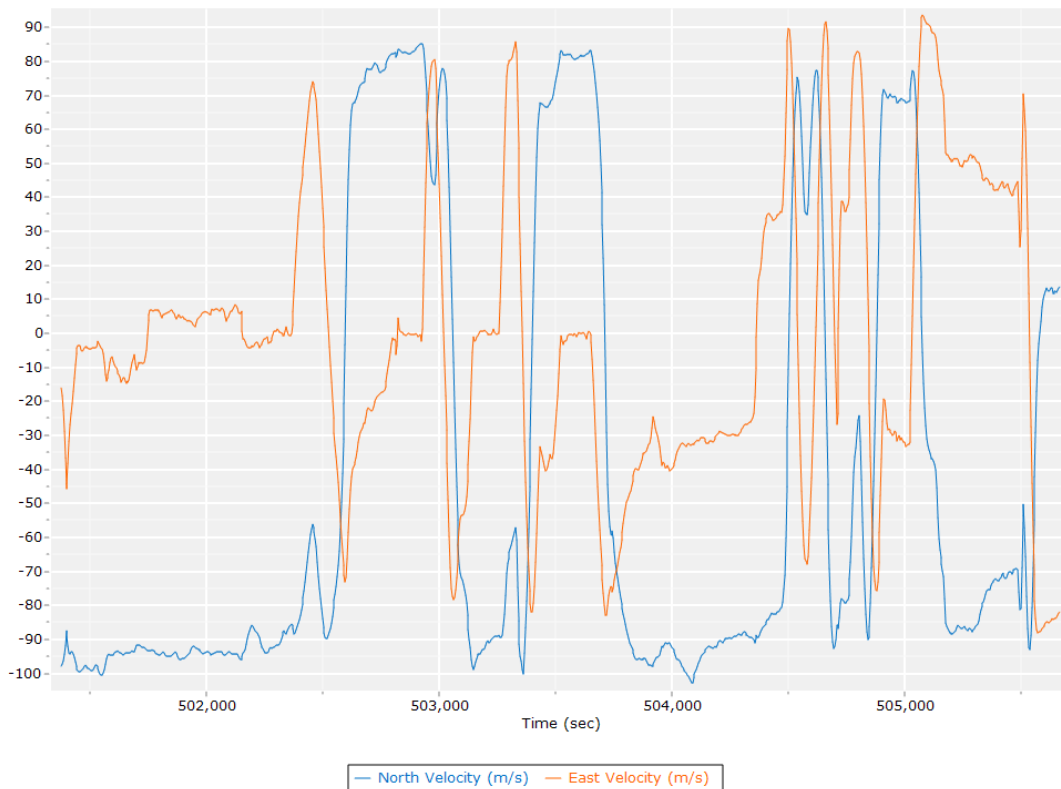
Roll/Pitch



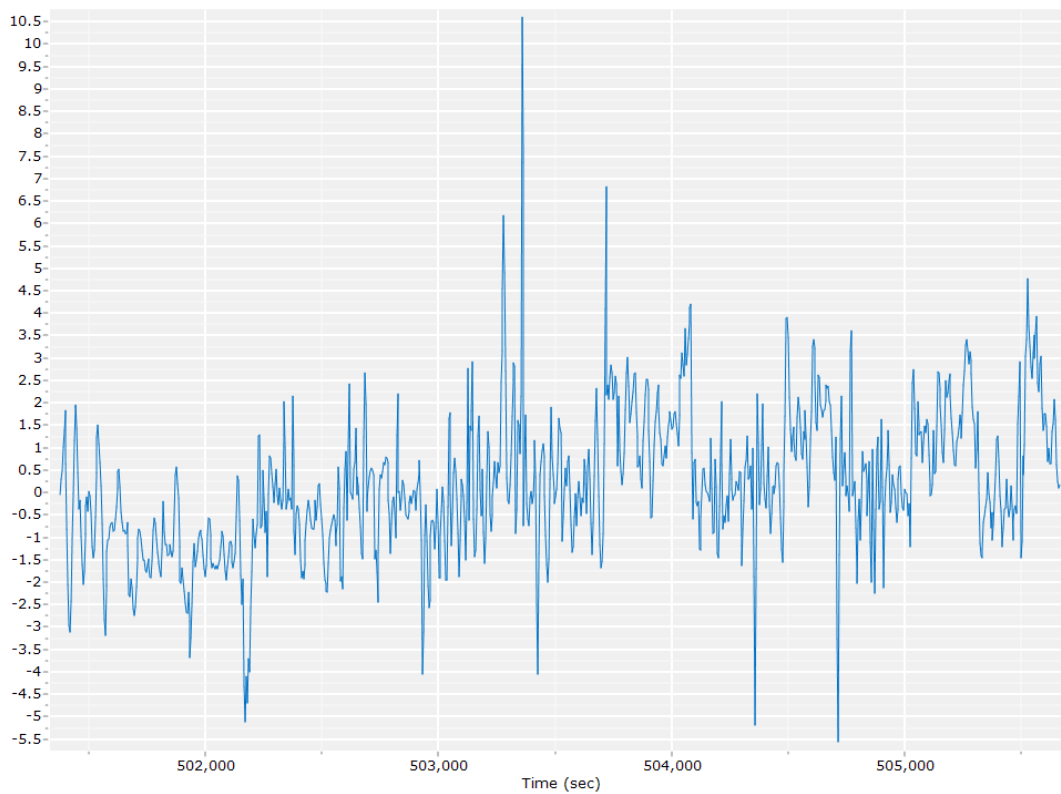
Heading



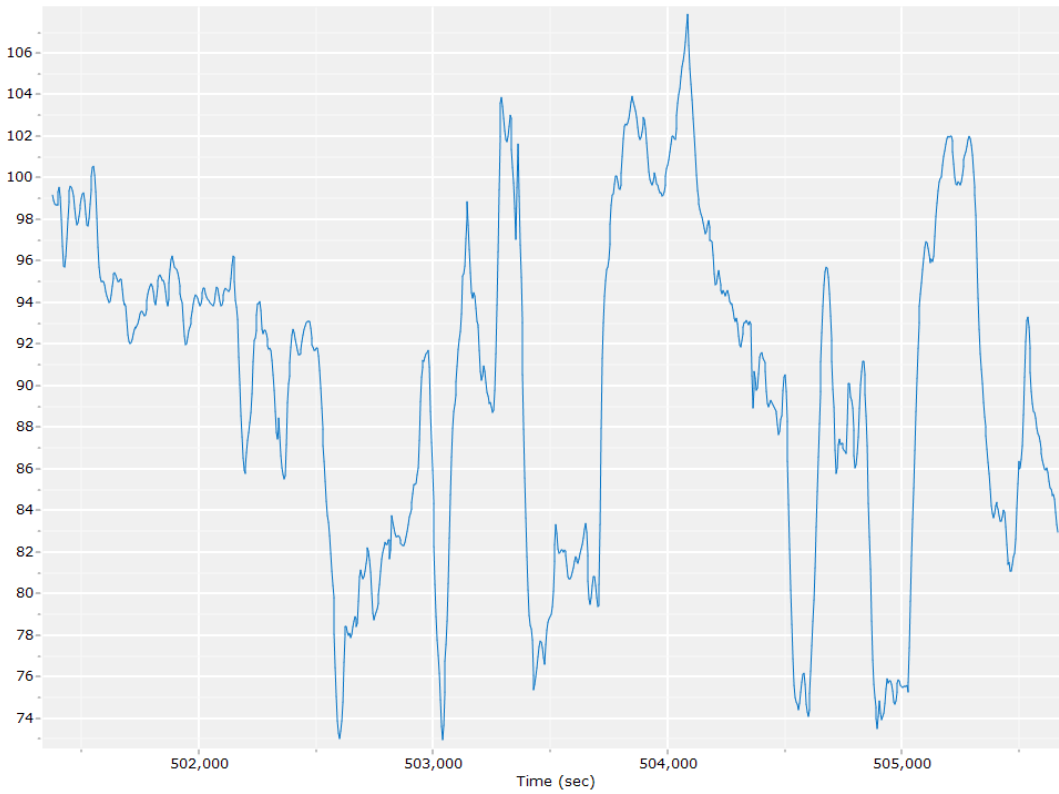
North/East Velocity



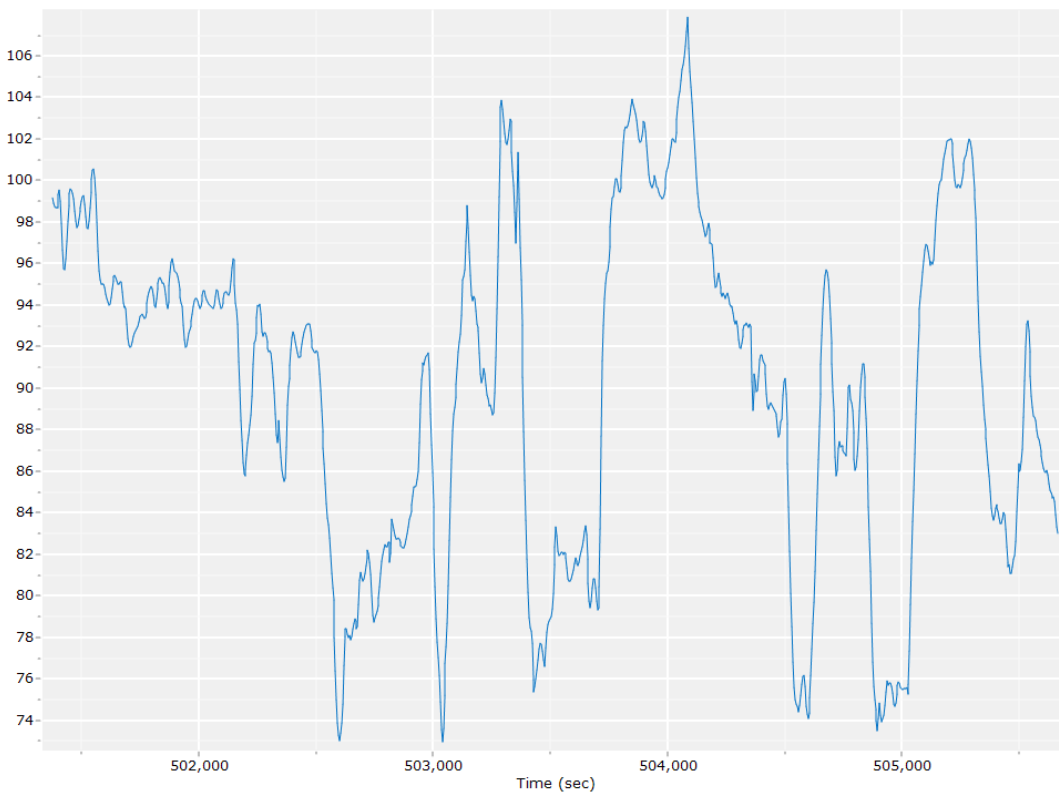
Down Velocity



Total Speed



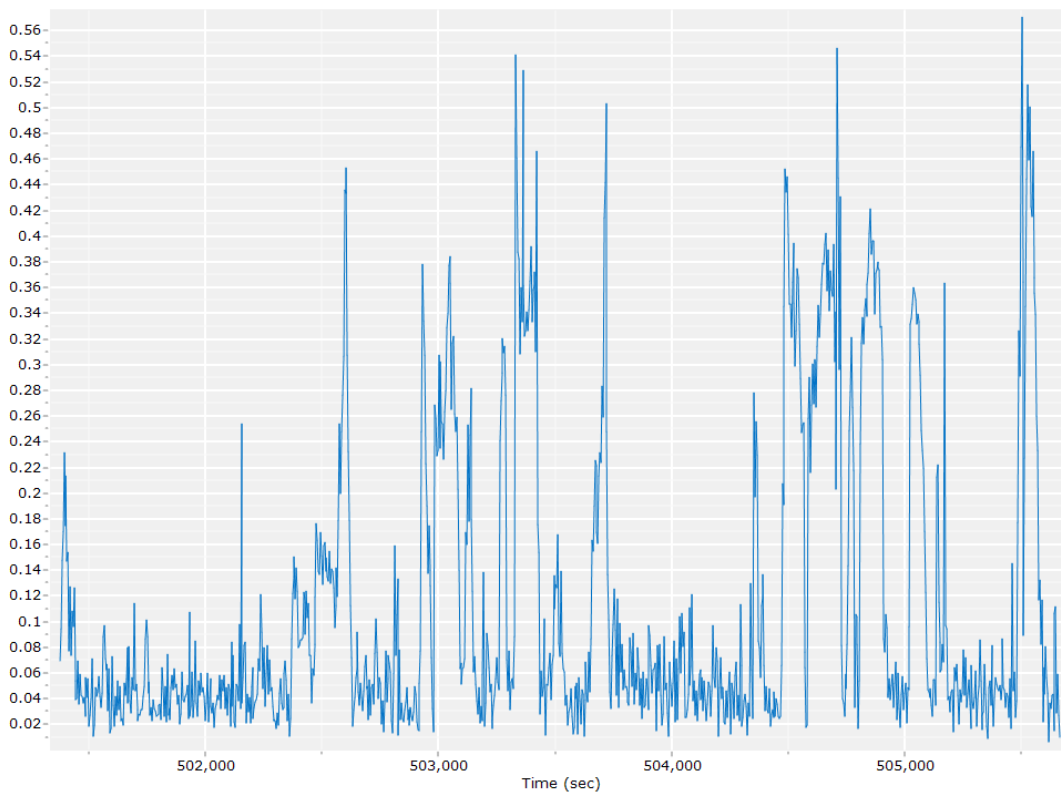
Ground Speed



Body Acceleration



Total Body Acceleration

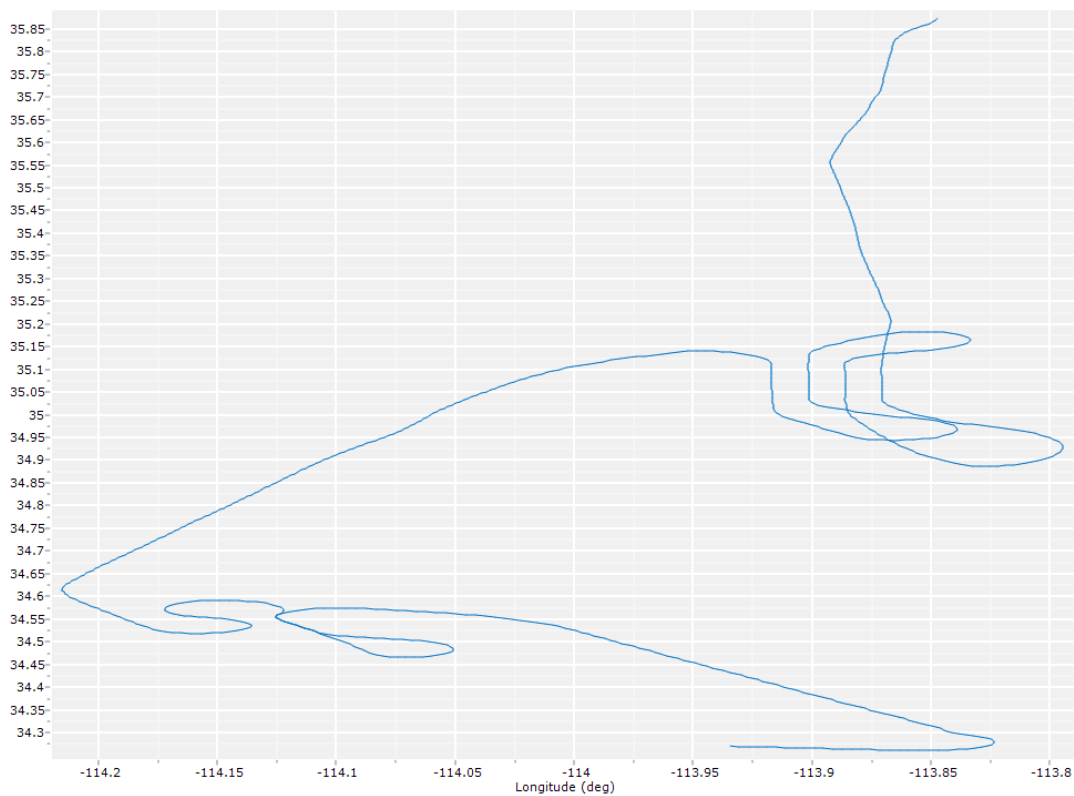


Body Angular Rate

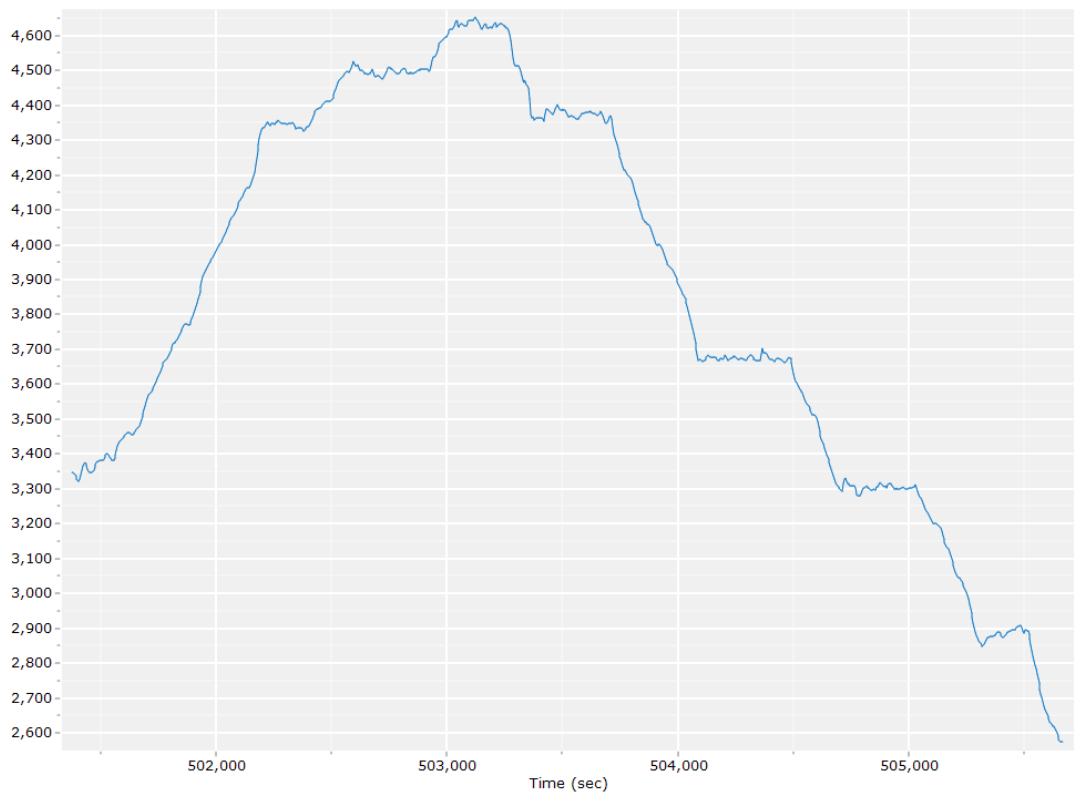


Forward Processed Trajectory Information

Top View



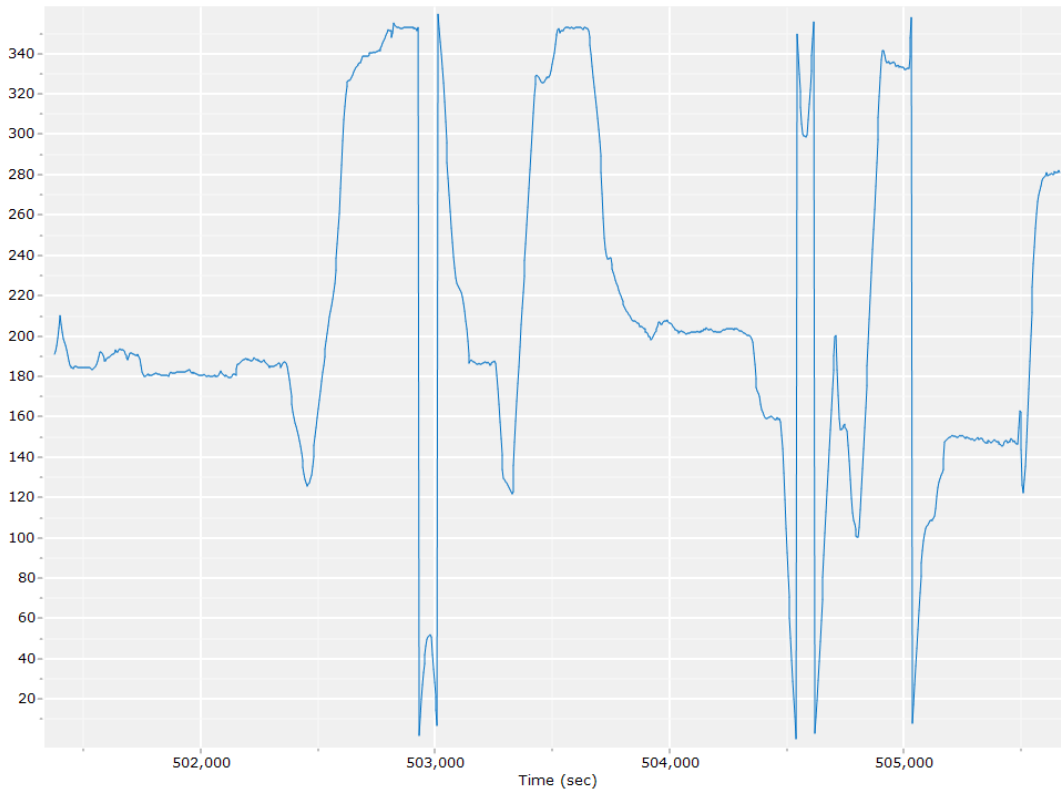
Altitude



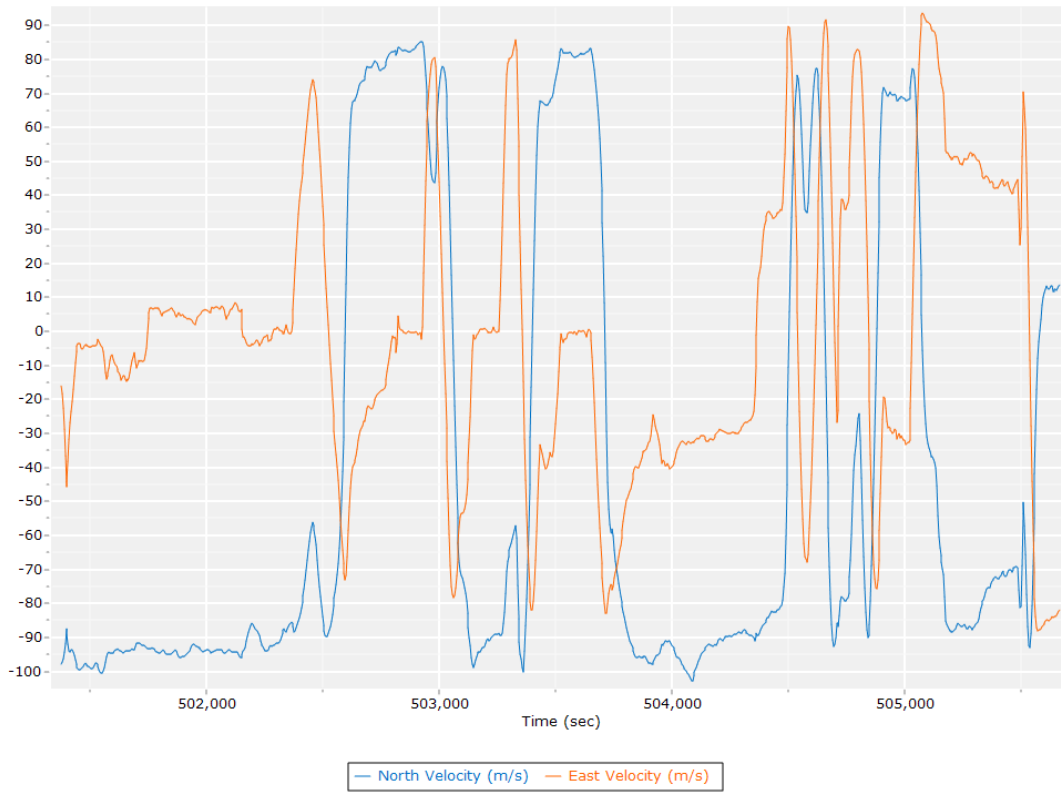
Roll/Pitch



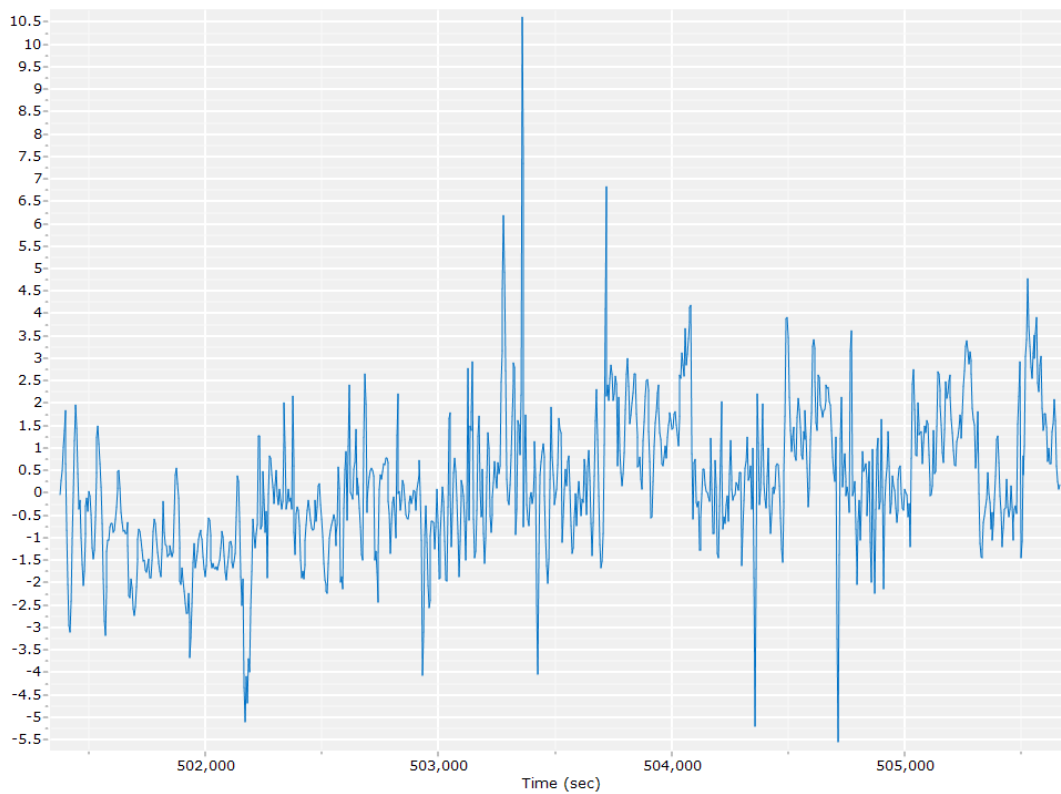
Heading



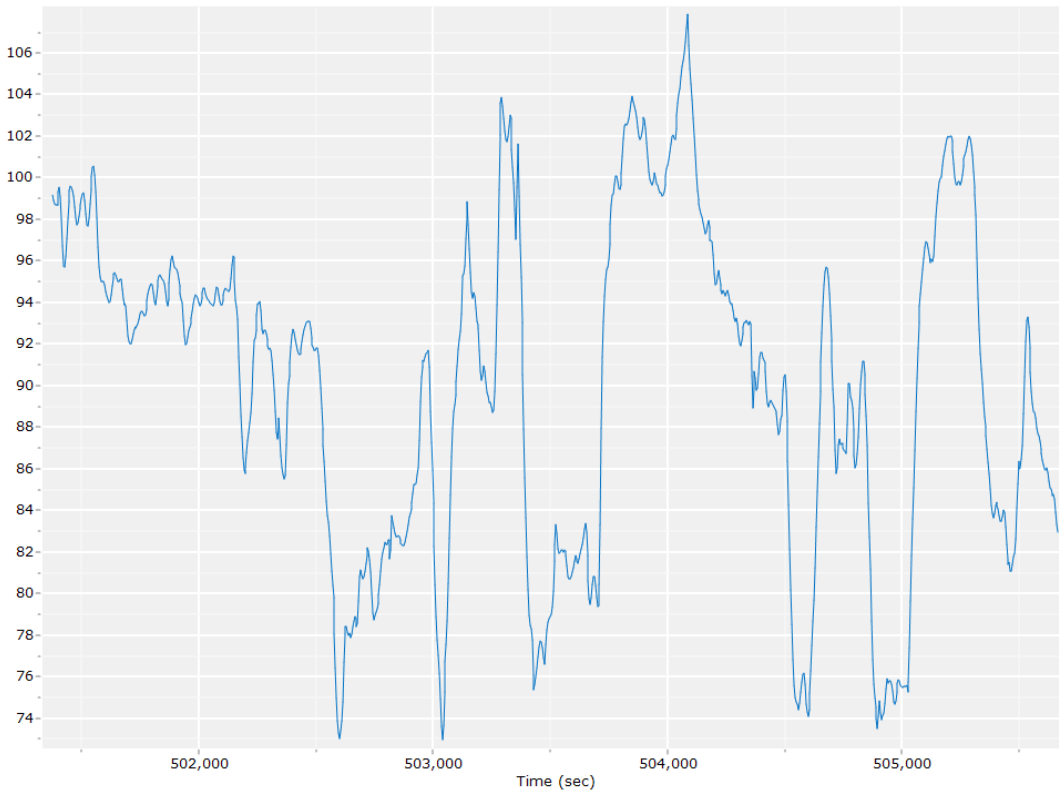
North/East Velocity



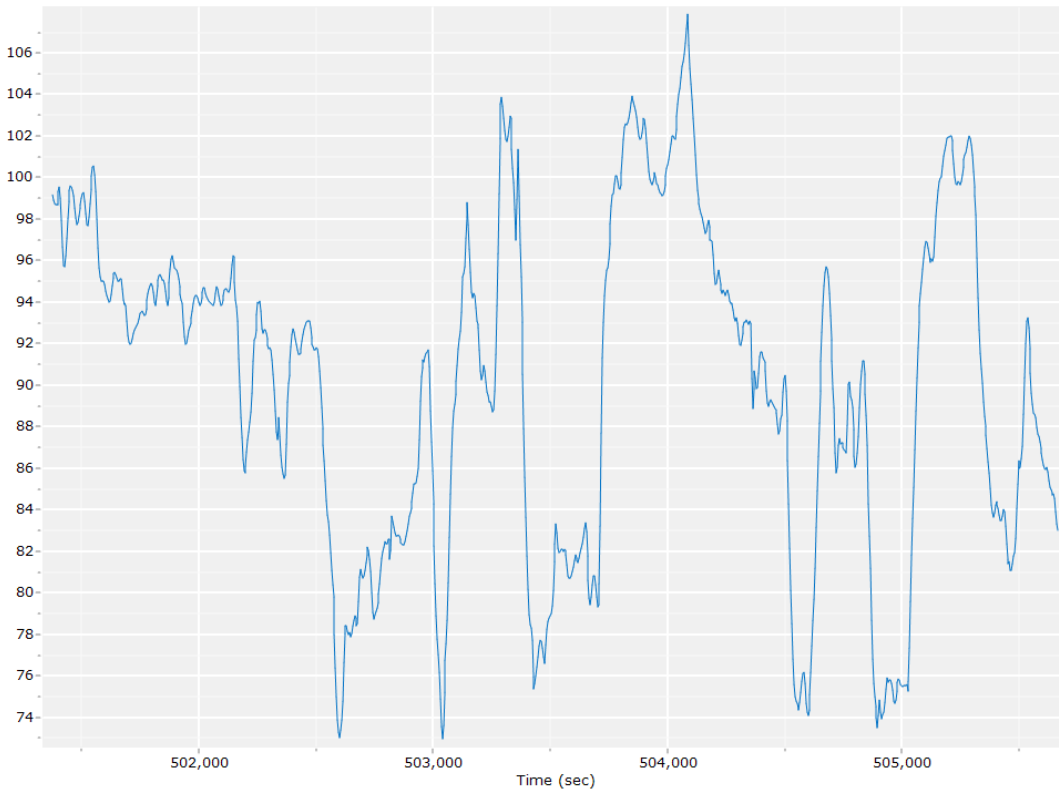
Down Velocity



Total Speed



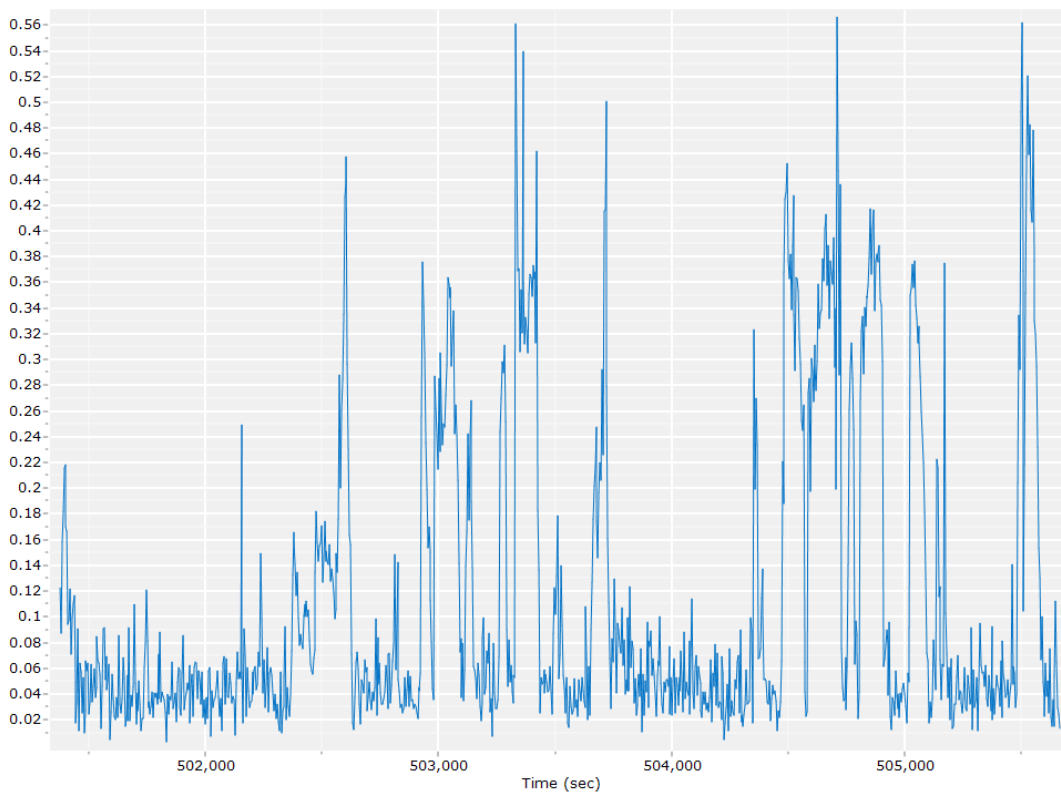
Ground Speed



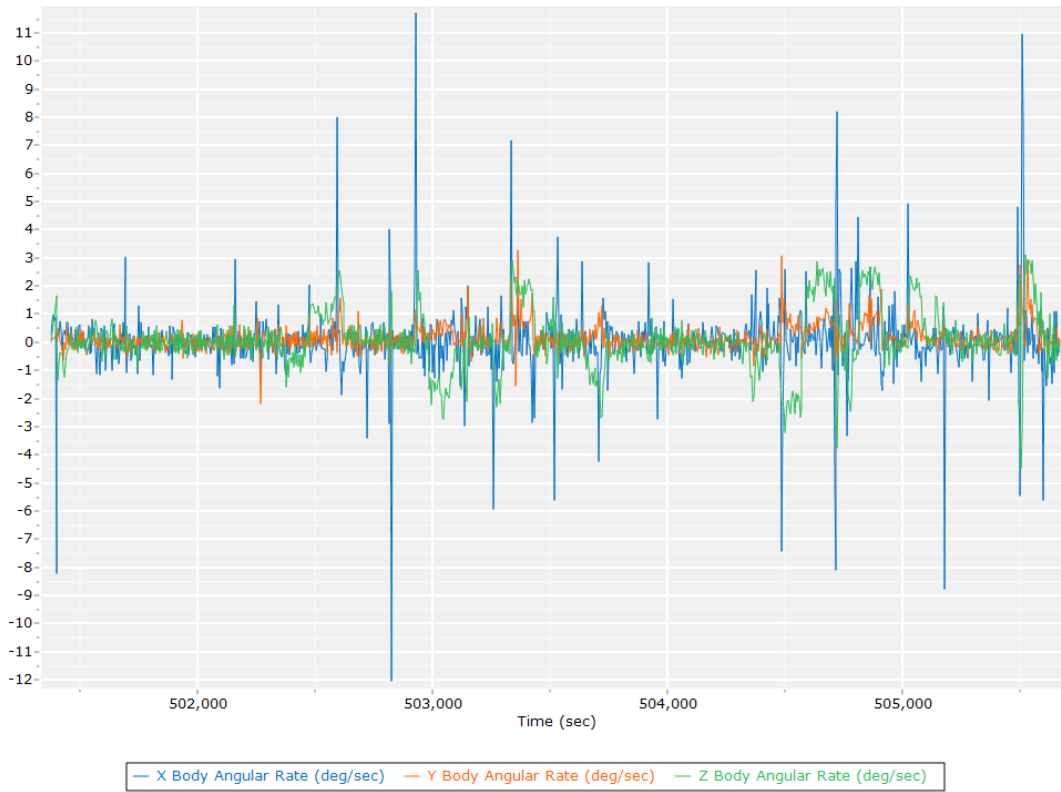
Body Acceleration



Total Body Acceleration



Body Angular Rate



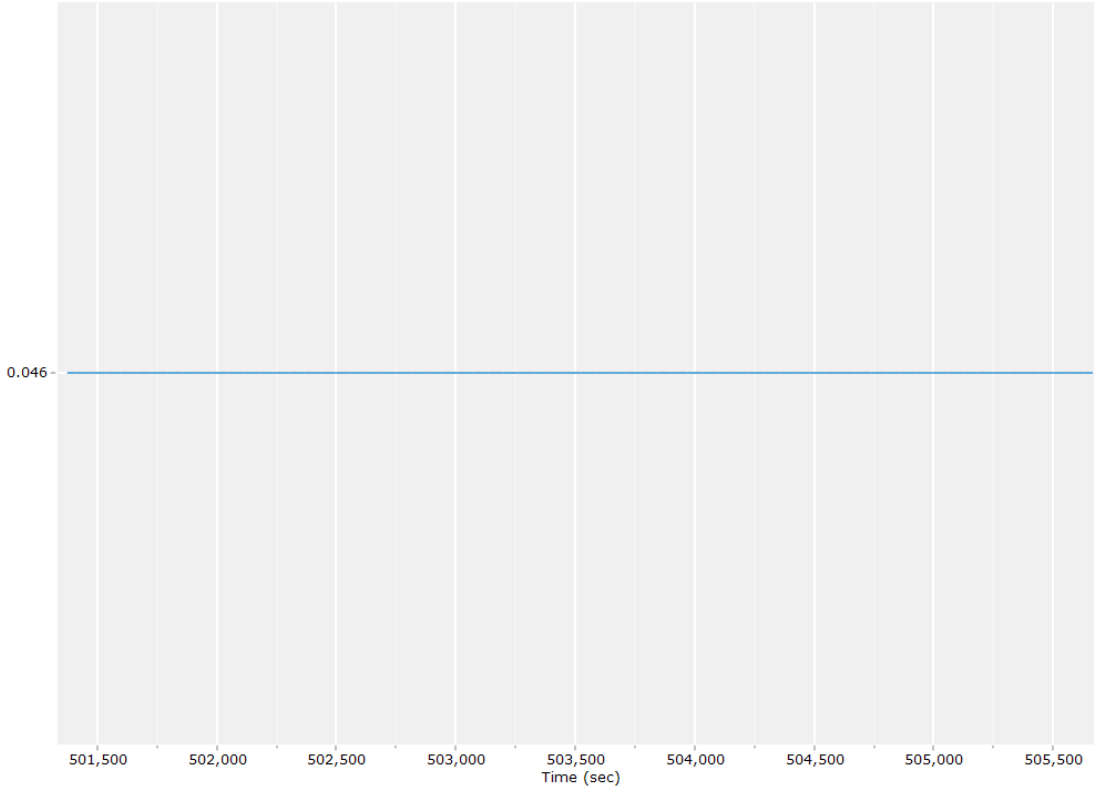
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion Autonomous		
Stabilized mount	False		
Processing start time	501179.000 (4/21/2023 7:12:59 PM)		
Processing end time	505671.000 (4/21/2023 8:27:51 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)	0.046	-0.153	-0.934
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

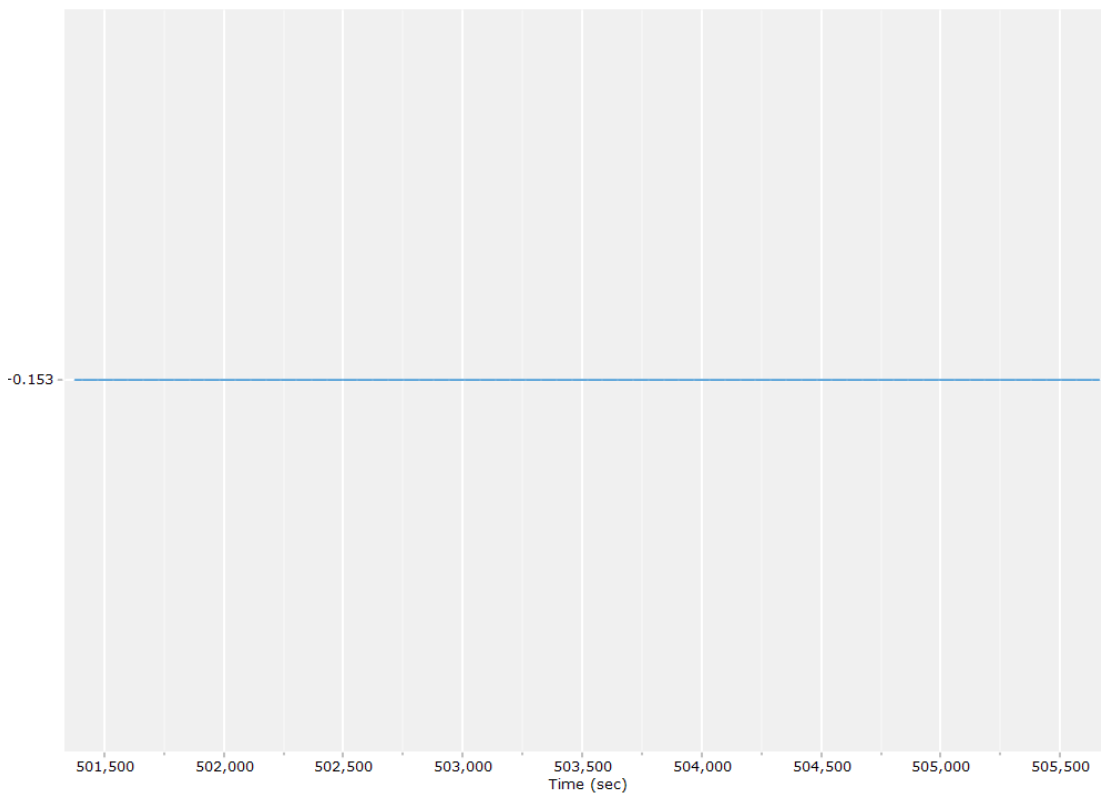
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

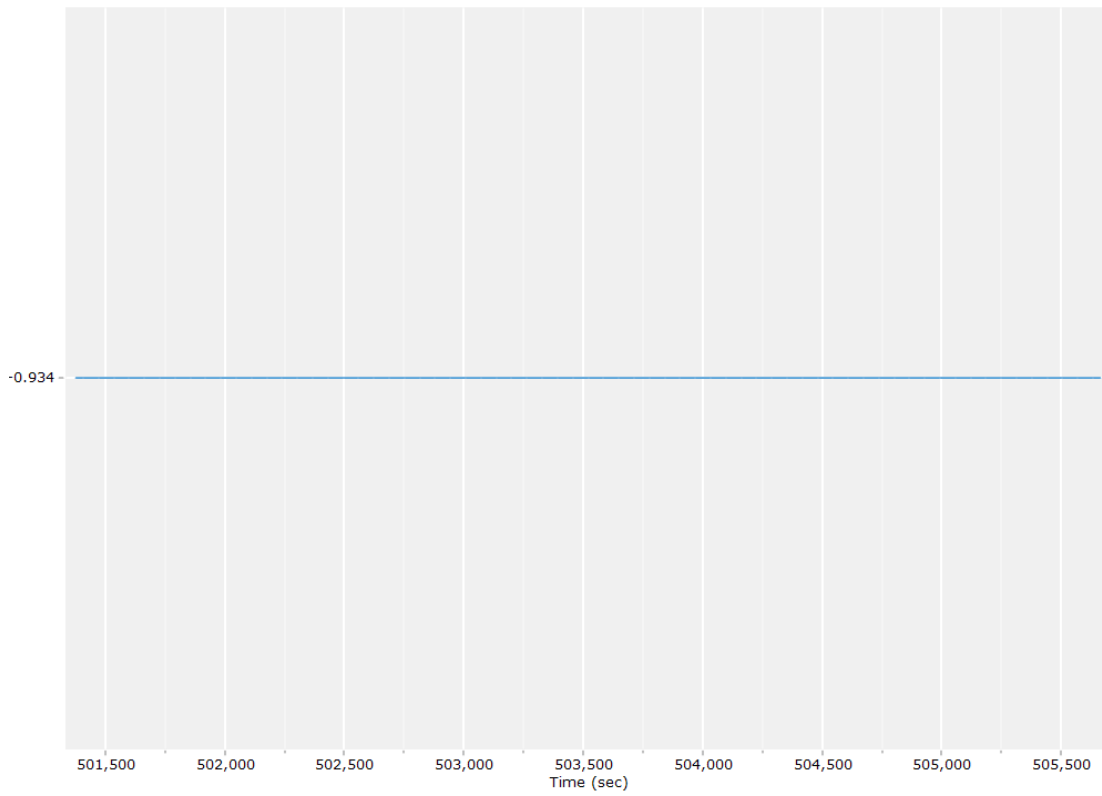
X Reference-Primary GNSS Lever Arm (m)



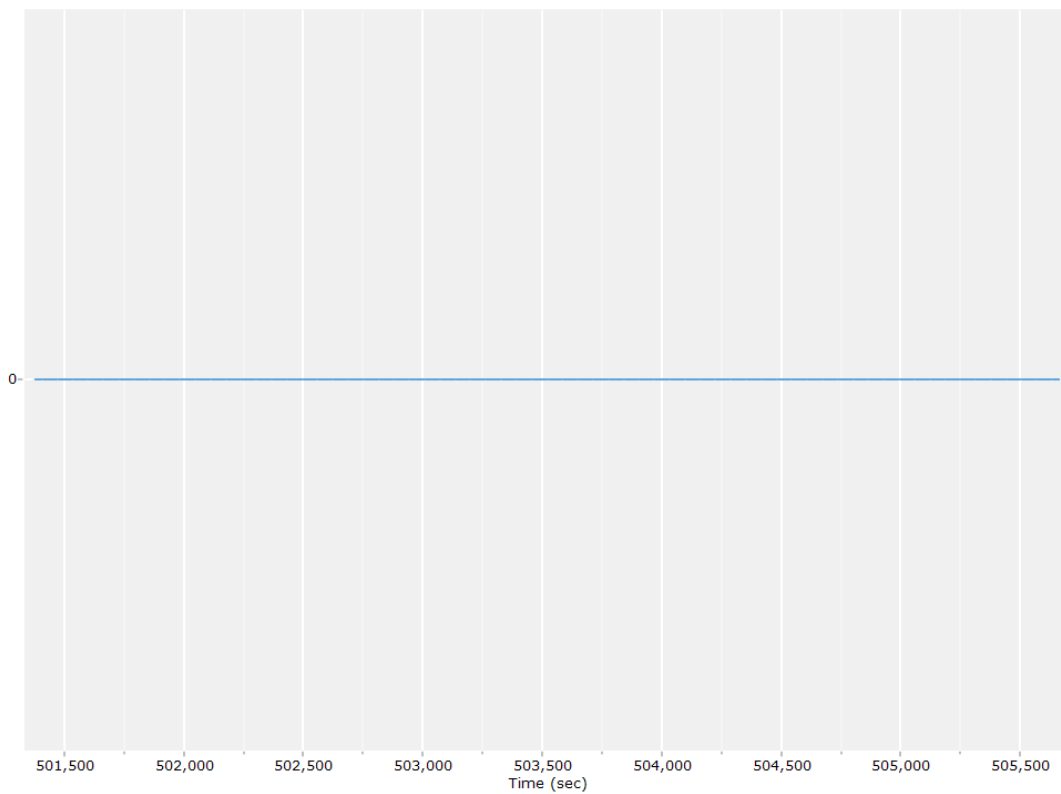
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



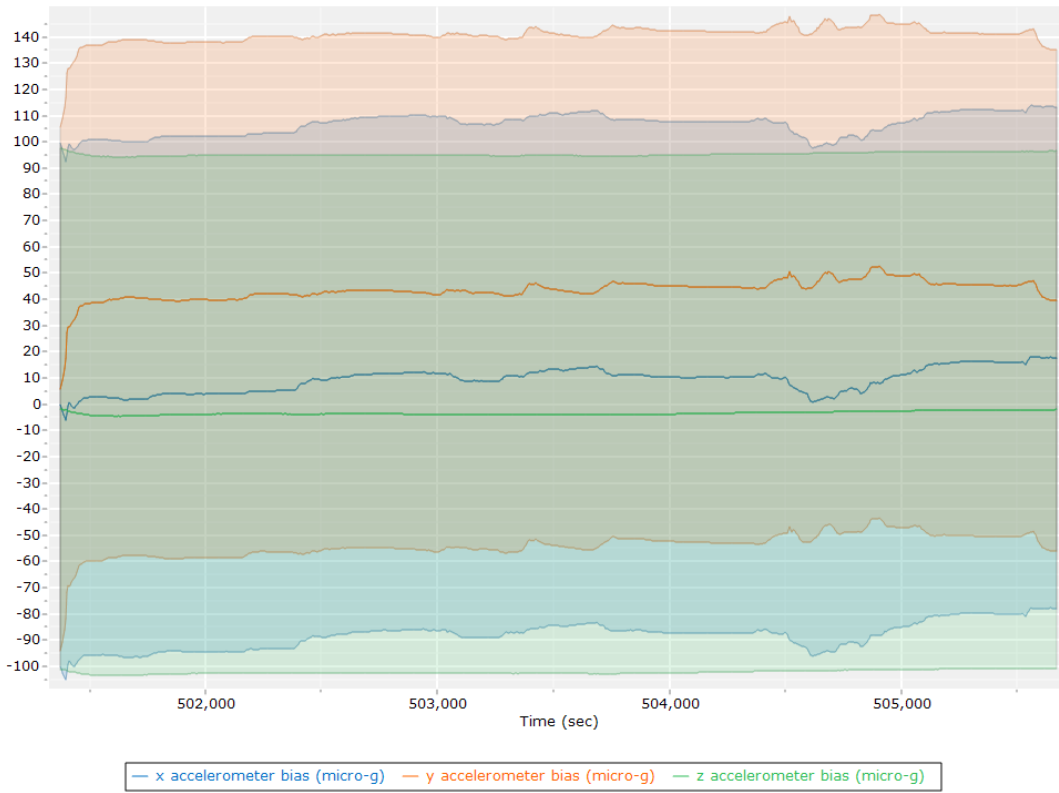
Reference-Primary GNSS Lever Arm Figure of Merit



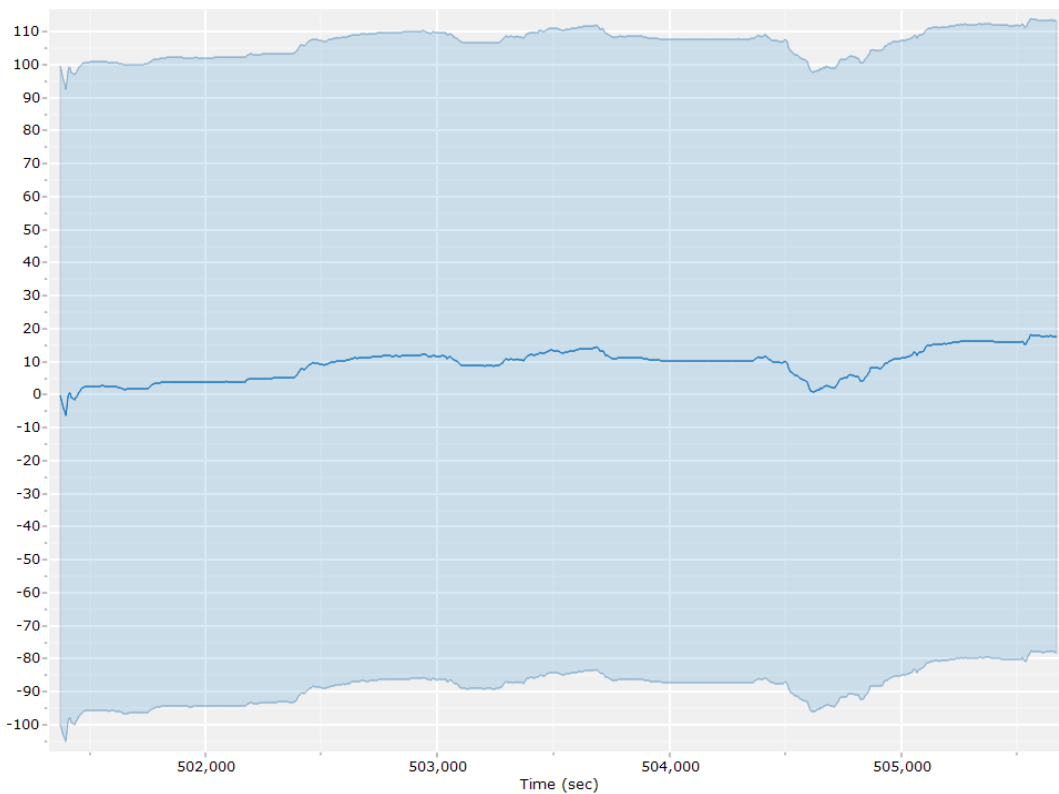
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

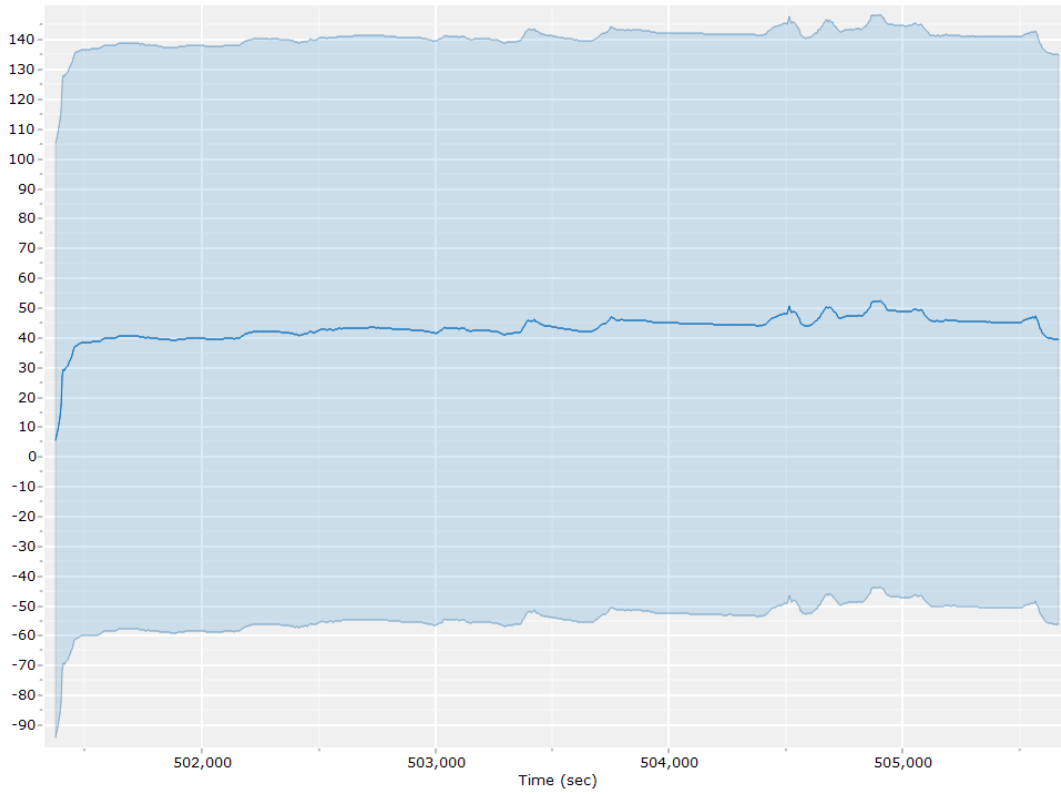
Accelerometer Bias (micro-g)



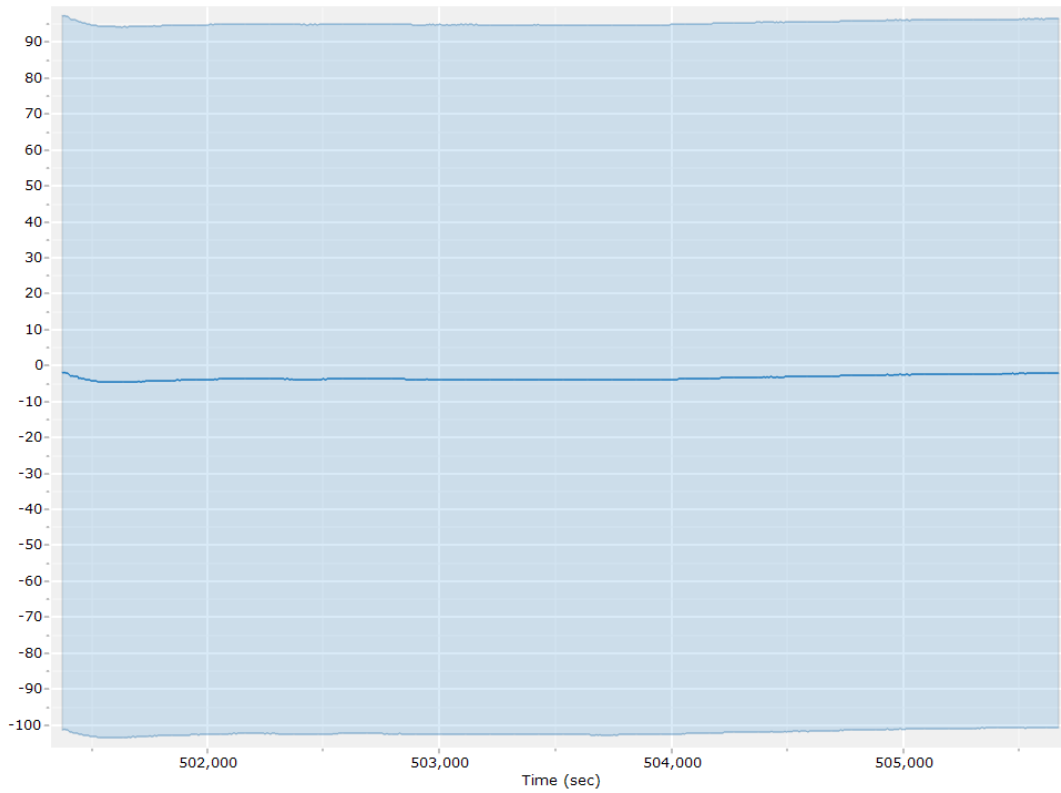
X Accelerometer Bias (micro-g)



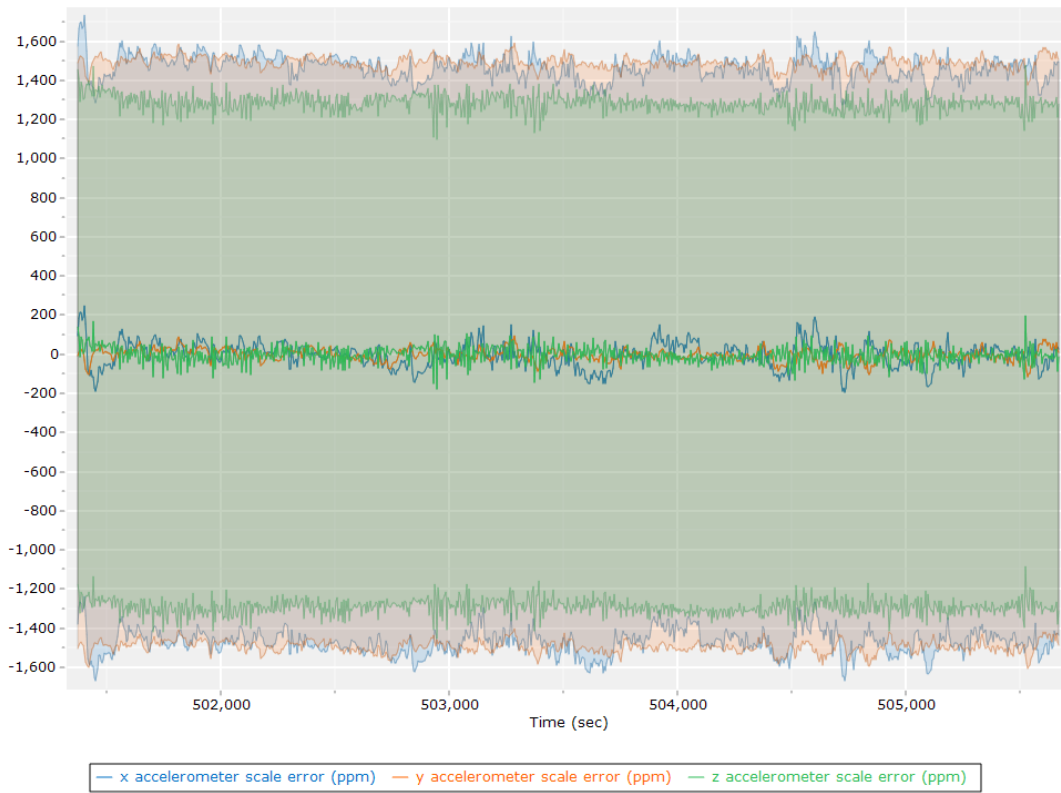
Y Accelerometer Bias (micro-g)



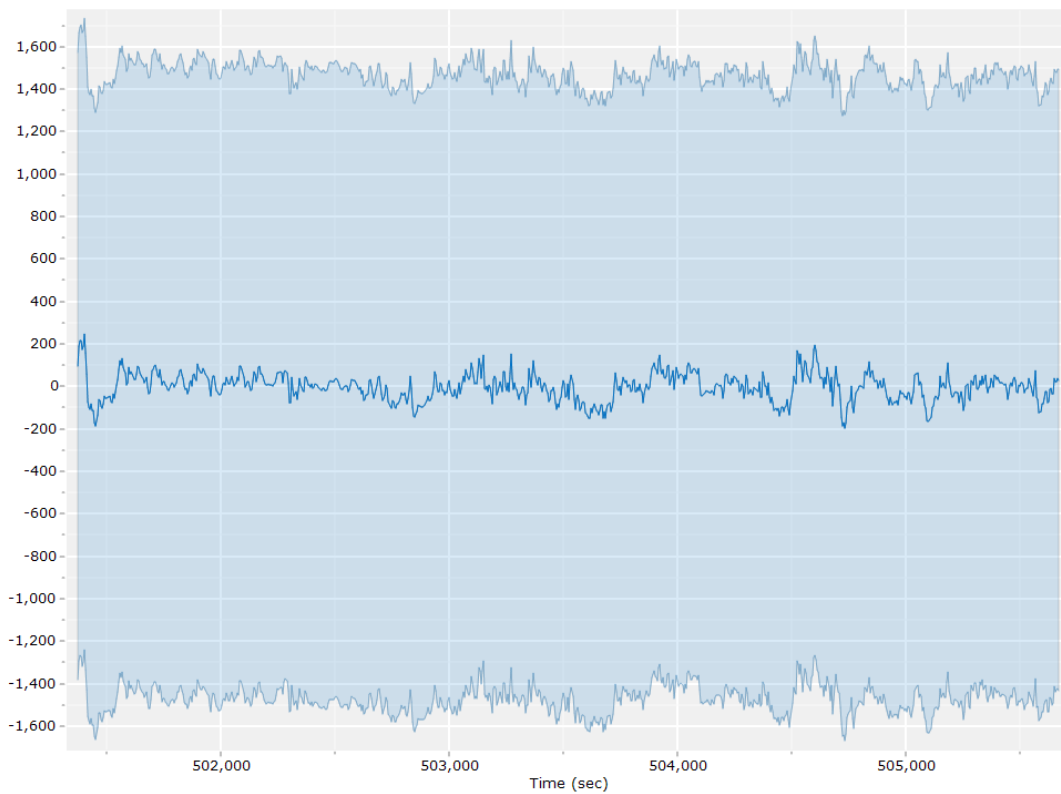
Z Accelerometer Bias (micro-g)



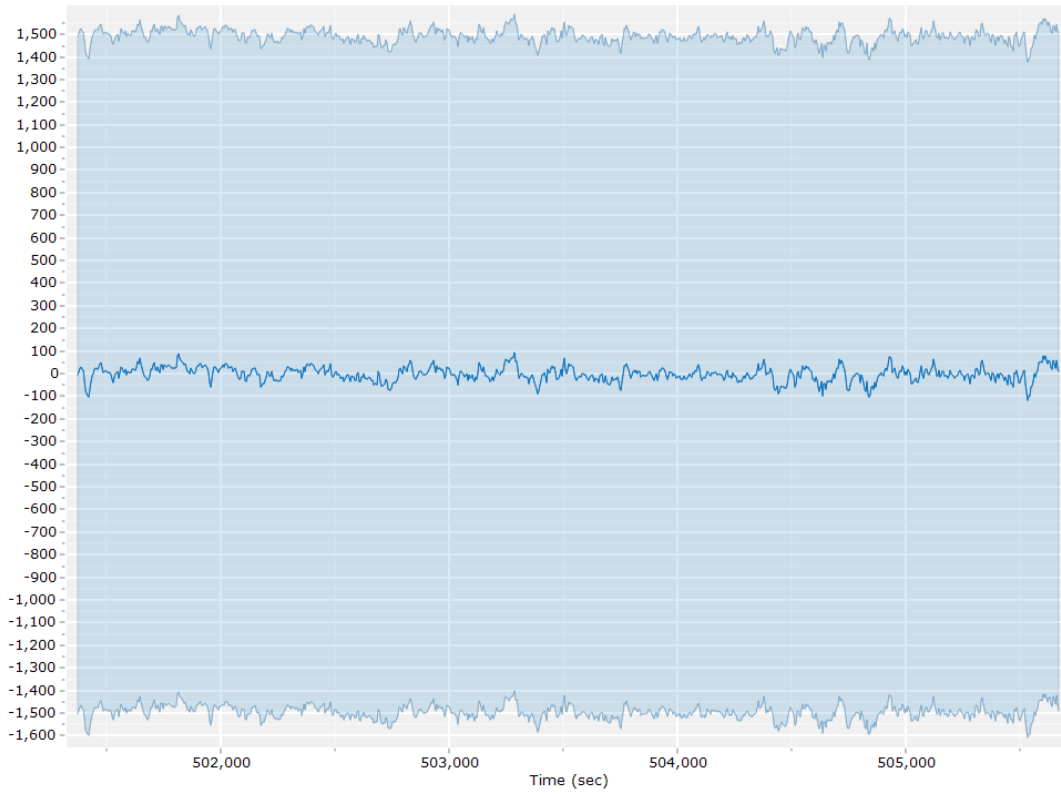
Accelerometer Scale Error (ppm)



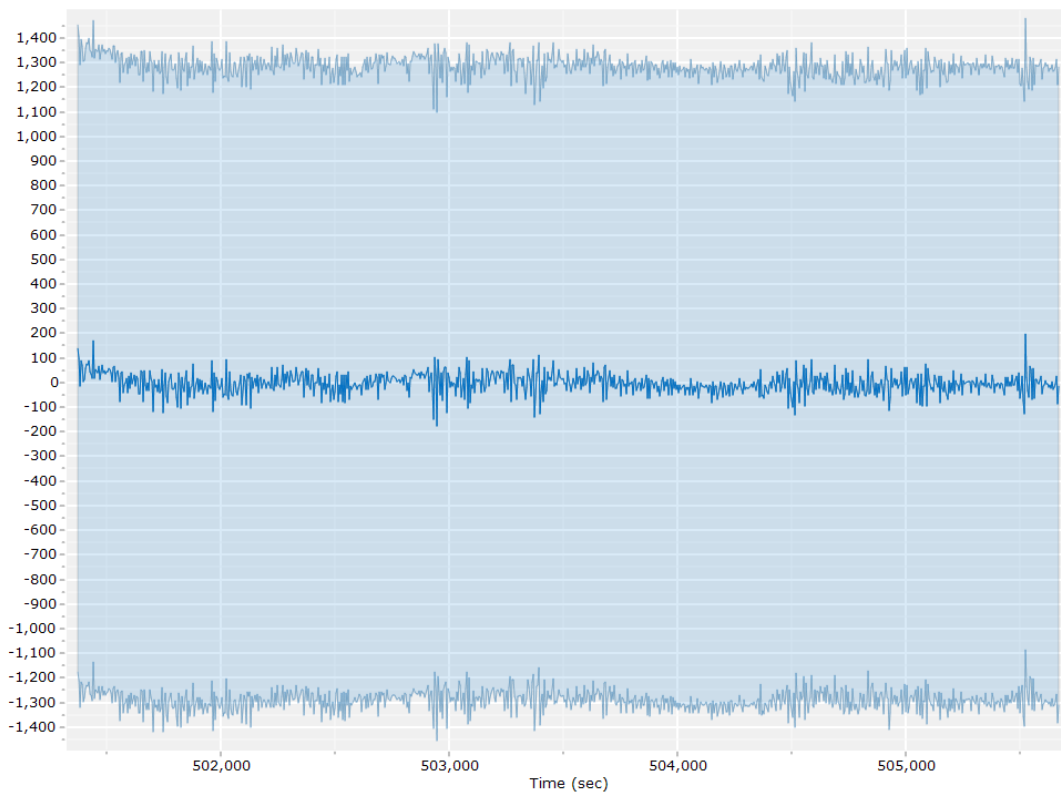
X Accelerometer Scale Error (ppm)



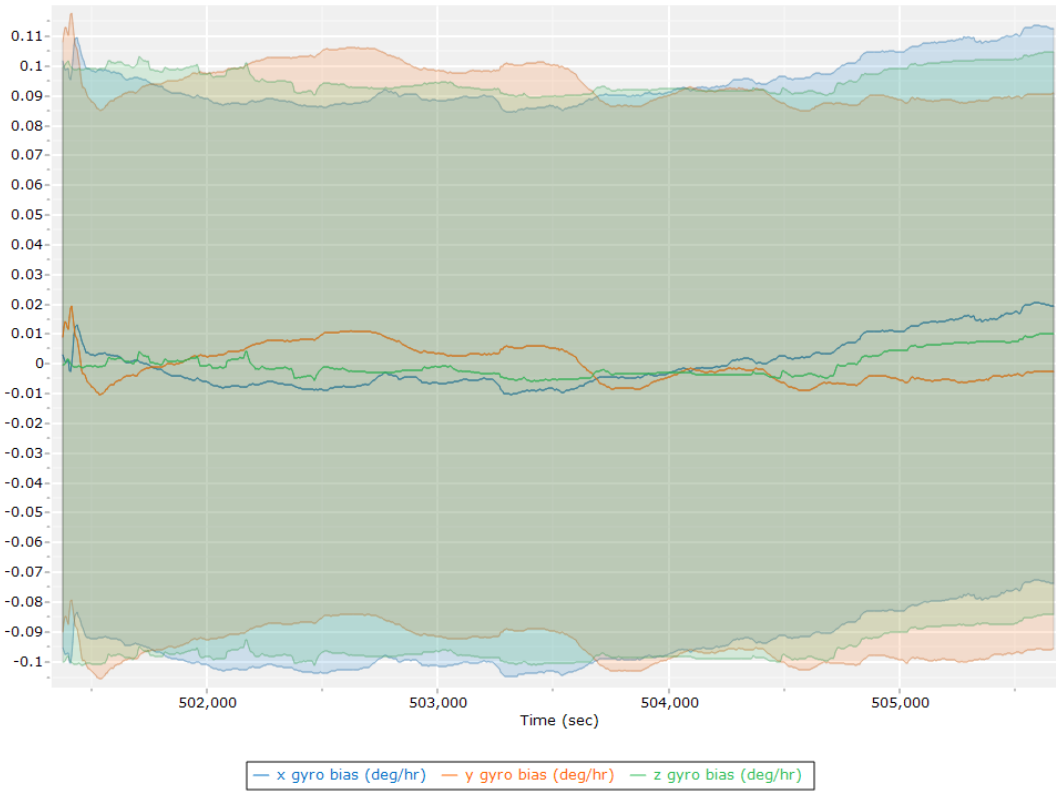
Y Accelerometer Scale Error (ppm)



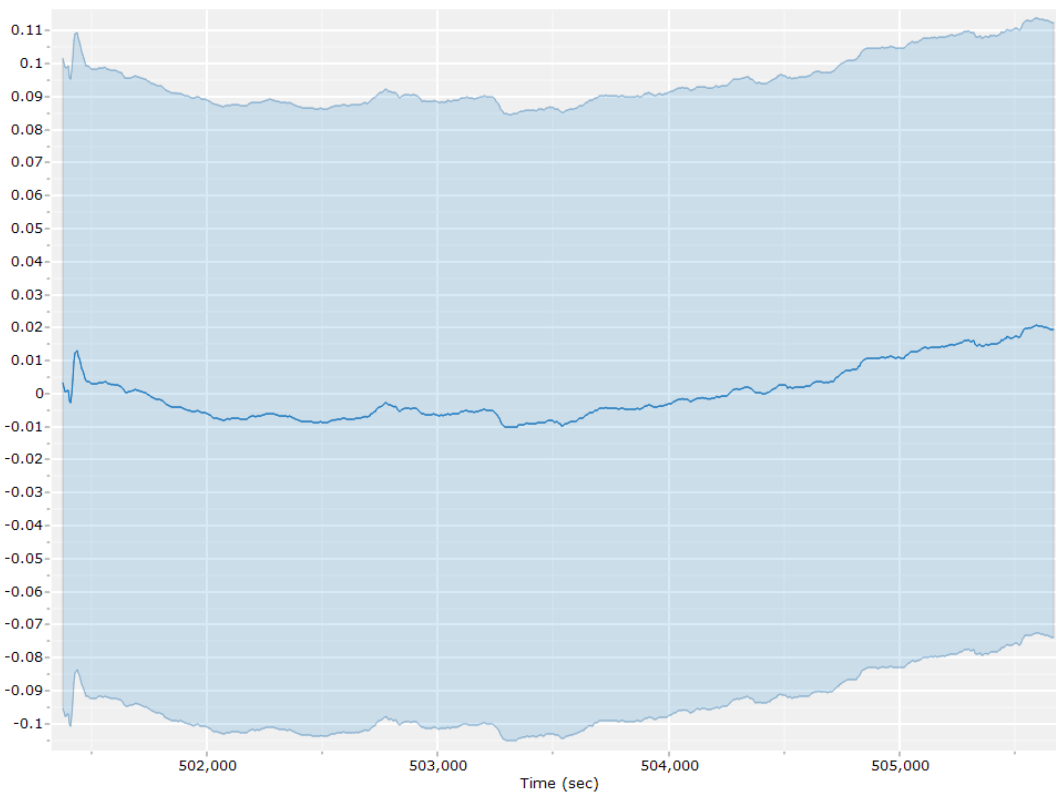
Z Accelerometer Scale Error (ppm)



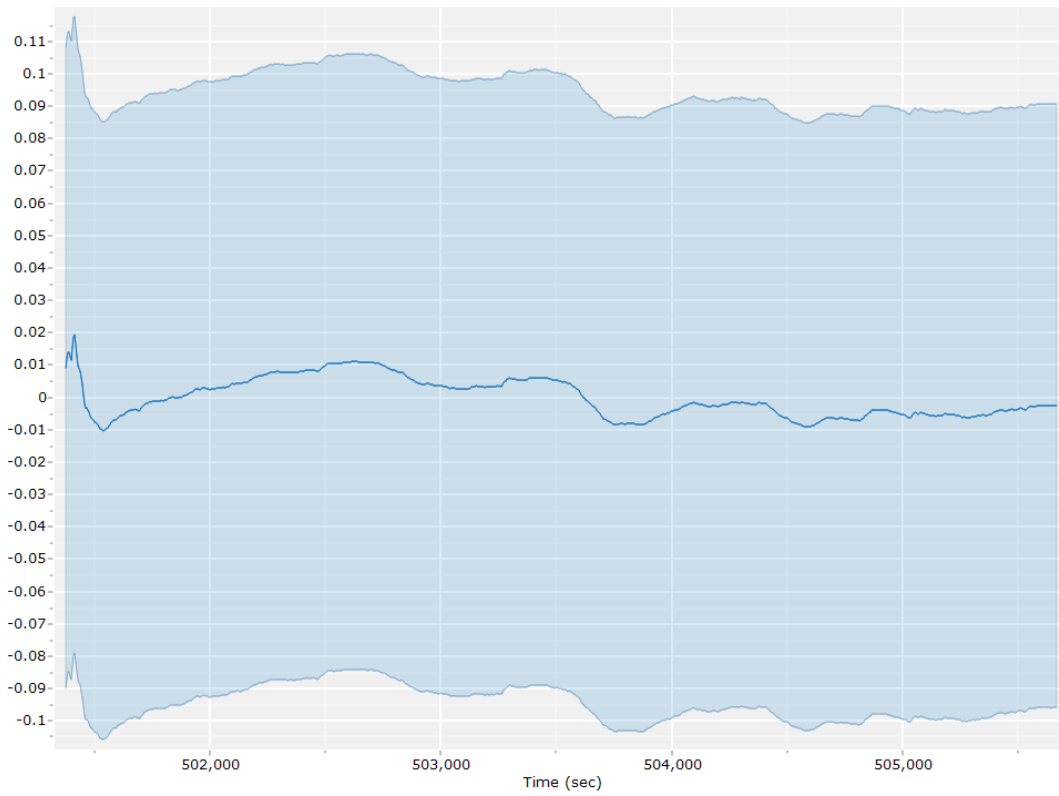
Gyro Bias (deg/h)



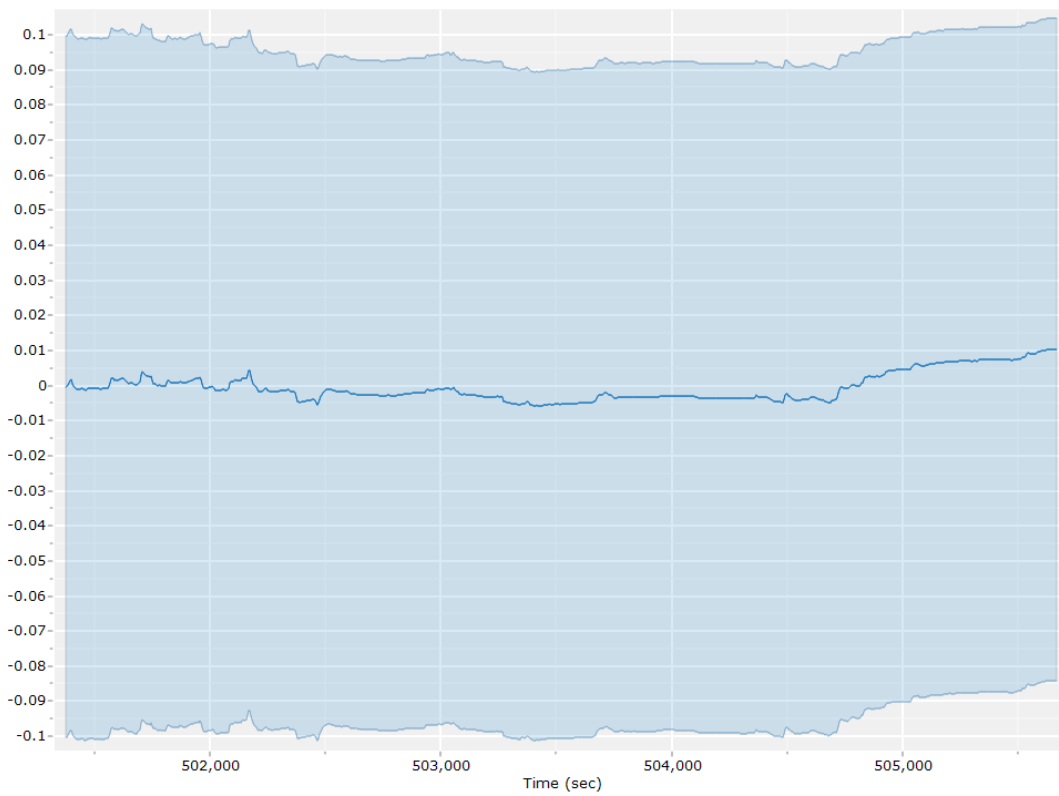
X Gyro Bias (deg/h)



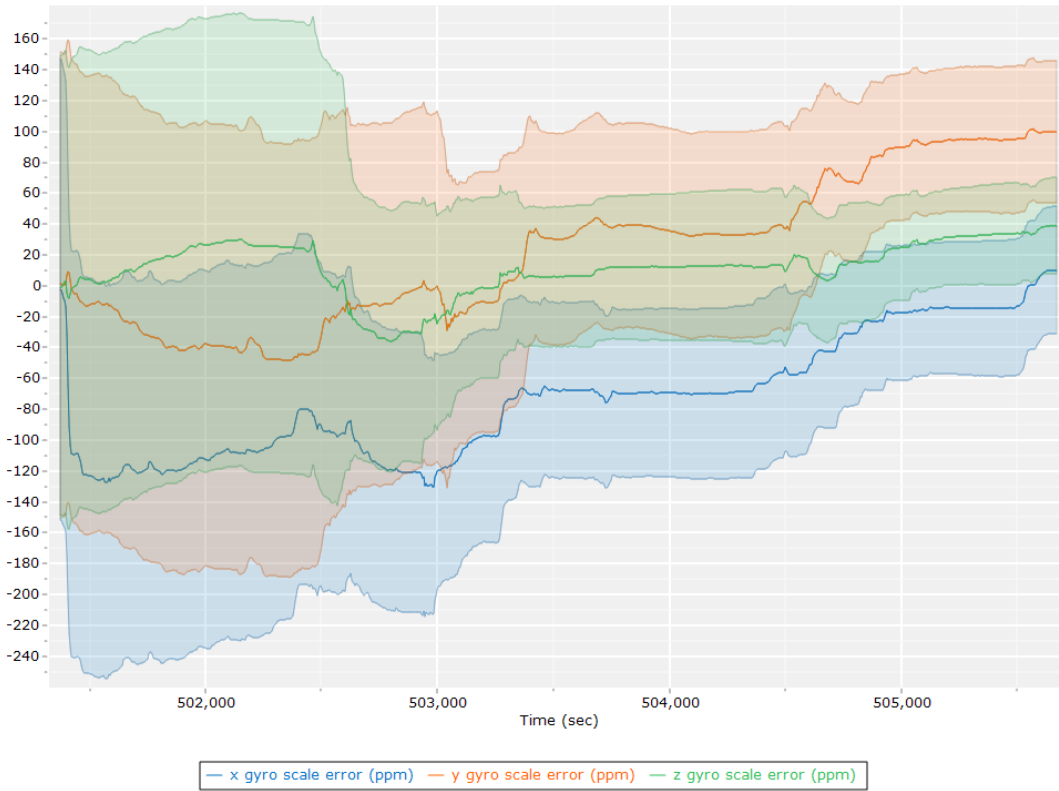
Y Gyro Bias (deg/h)



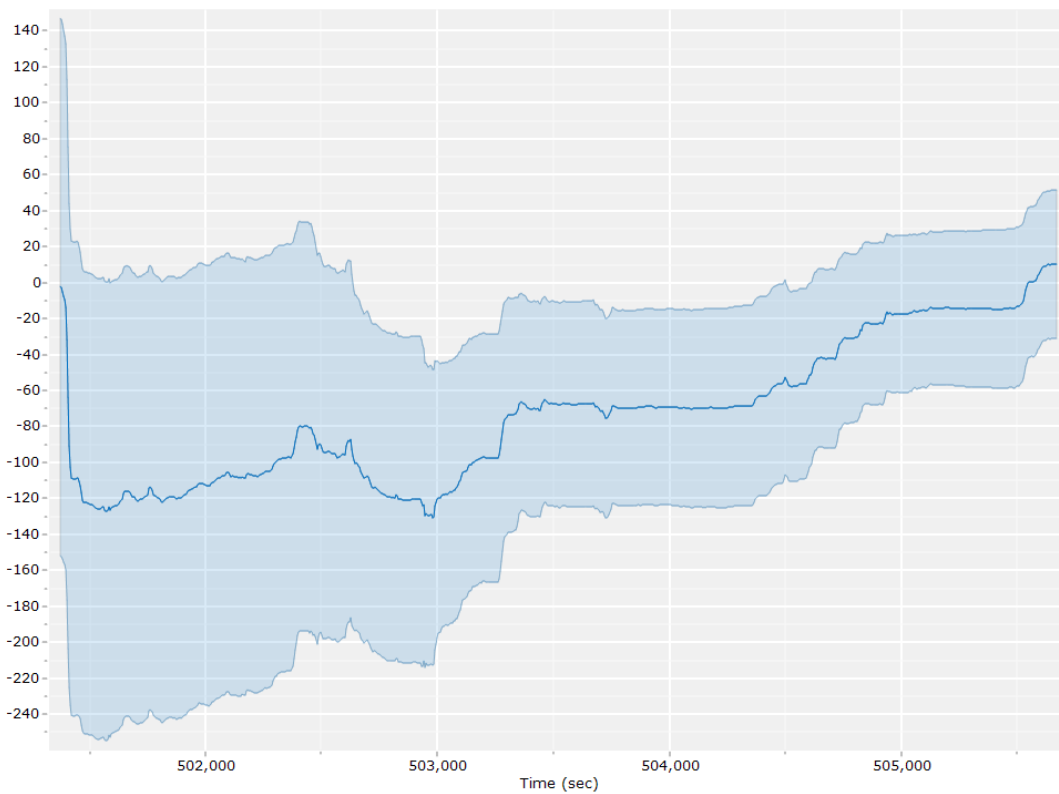
Z Gyro Bias (deg/h)



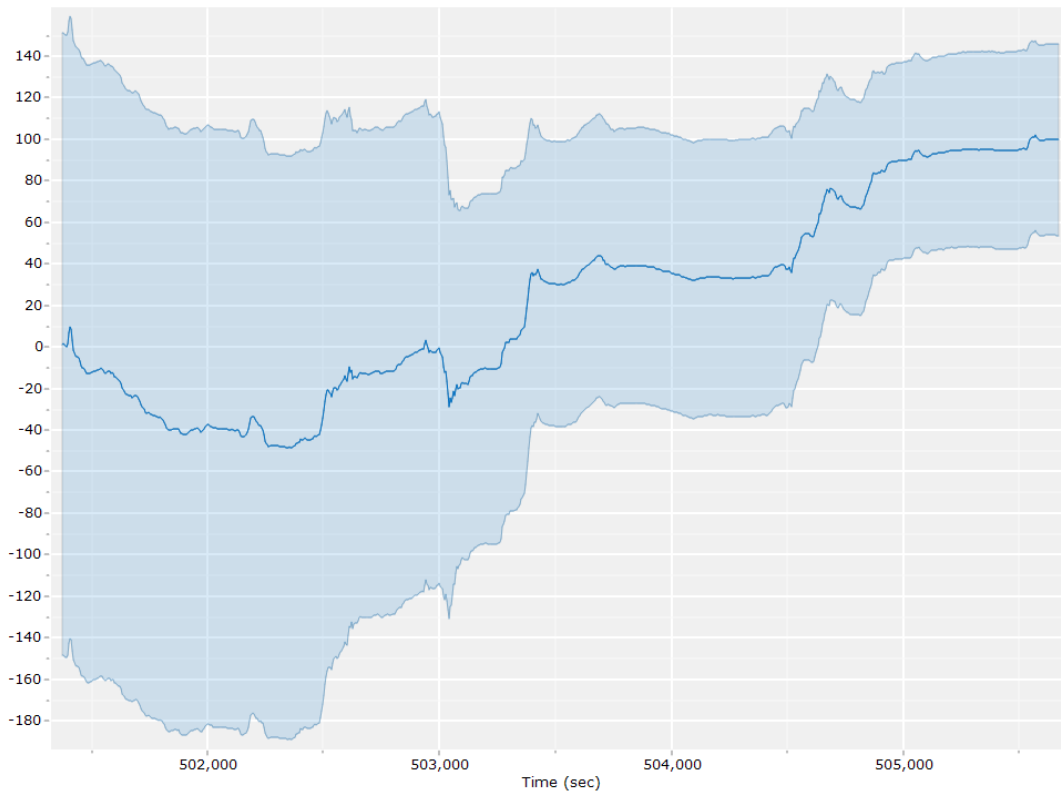
Gyro Scale Error (ppm)



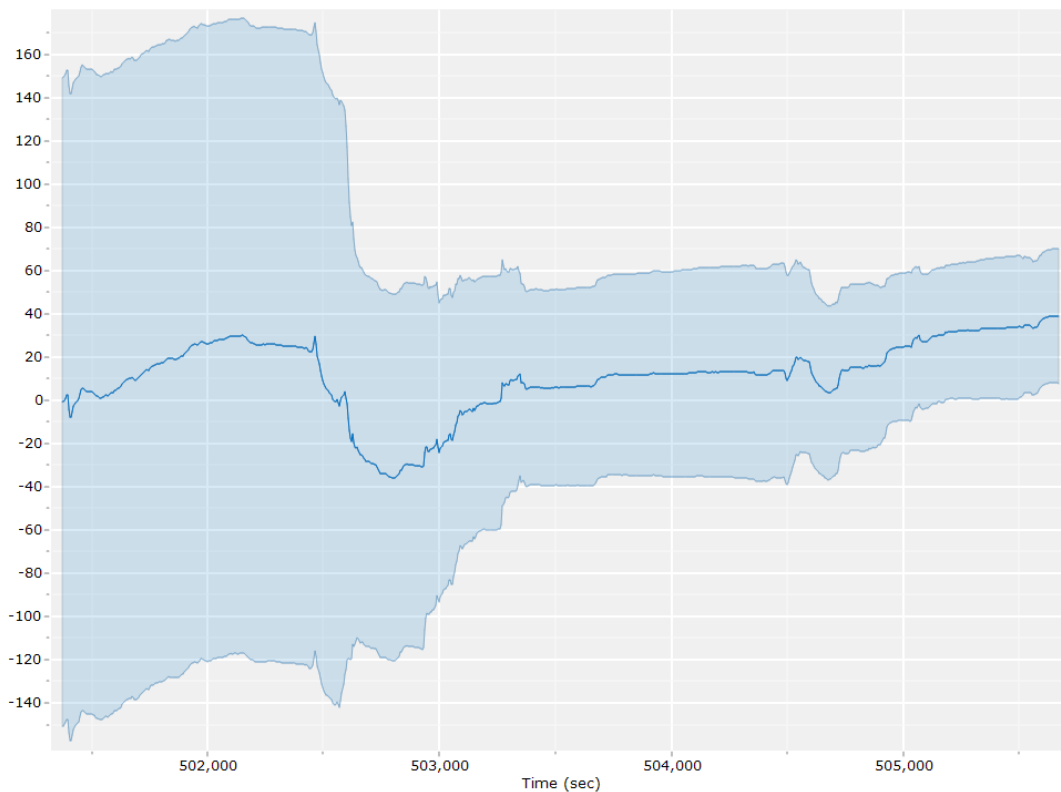
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

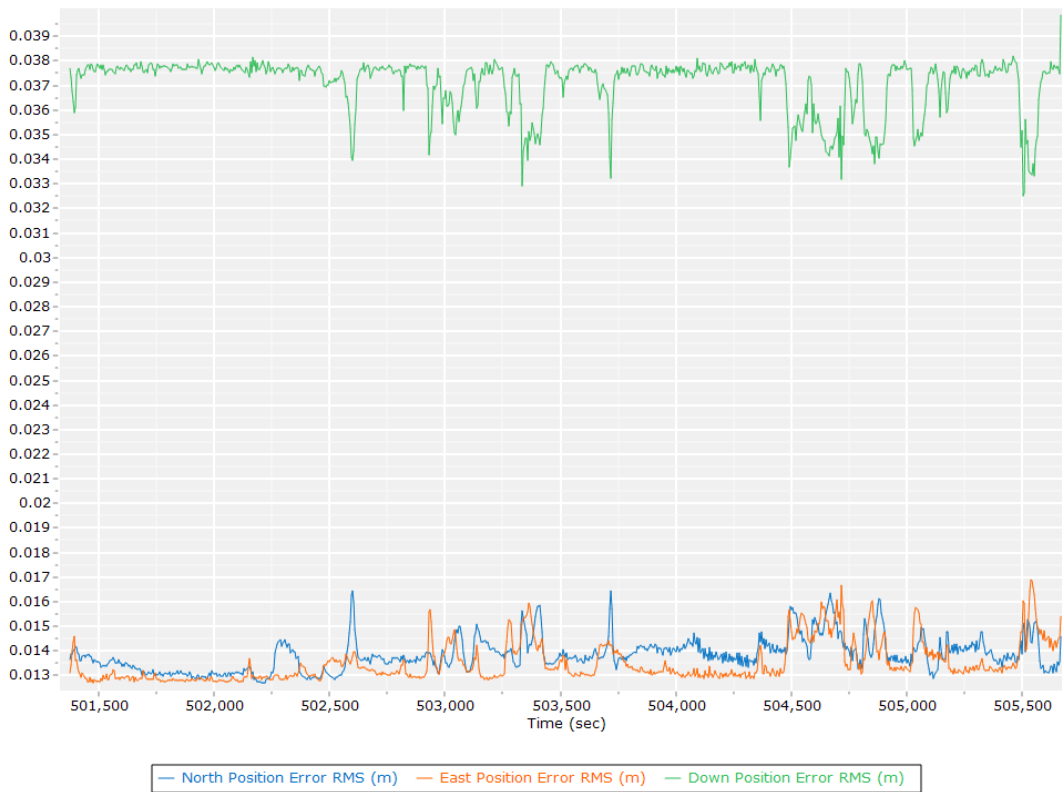


Z Gyro Scale Error (ppm)

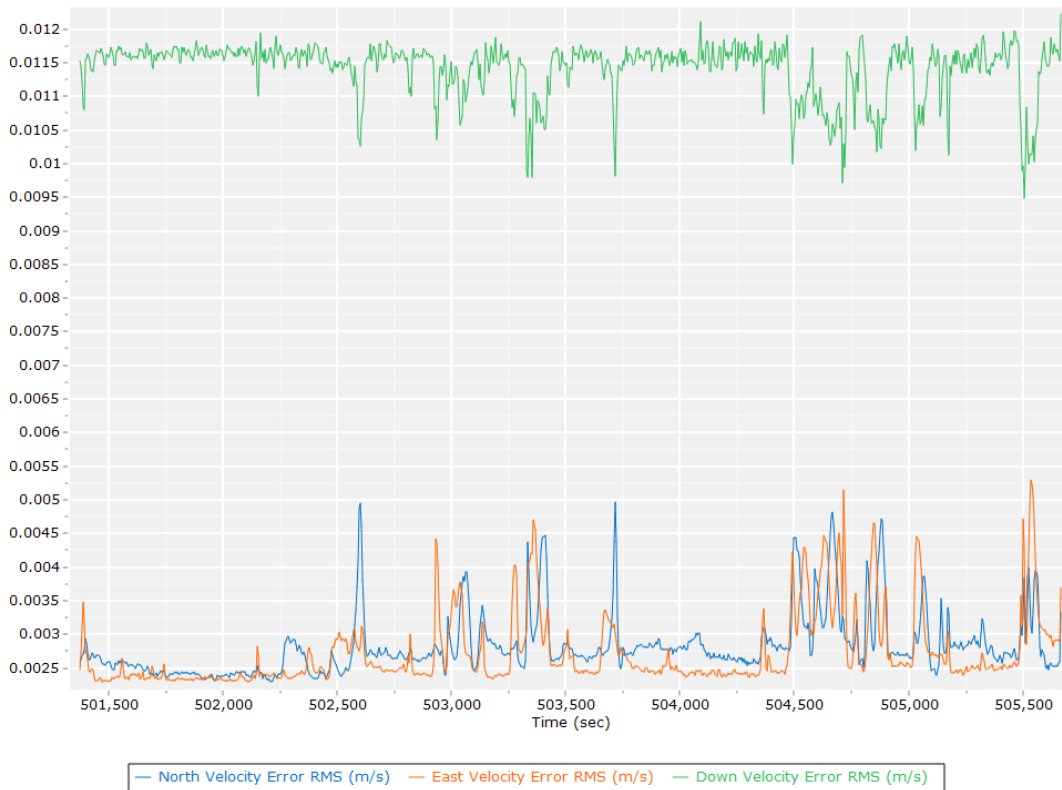


Smoothed Performance Metrics

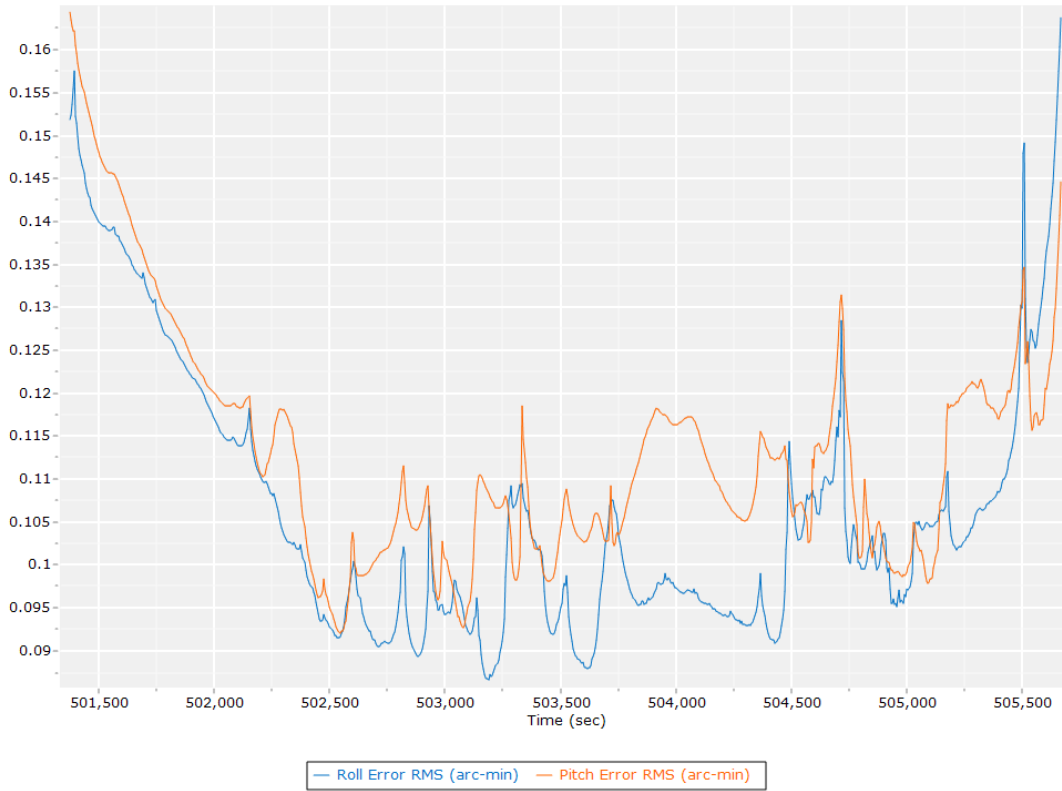
Position Error RMS (m)



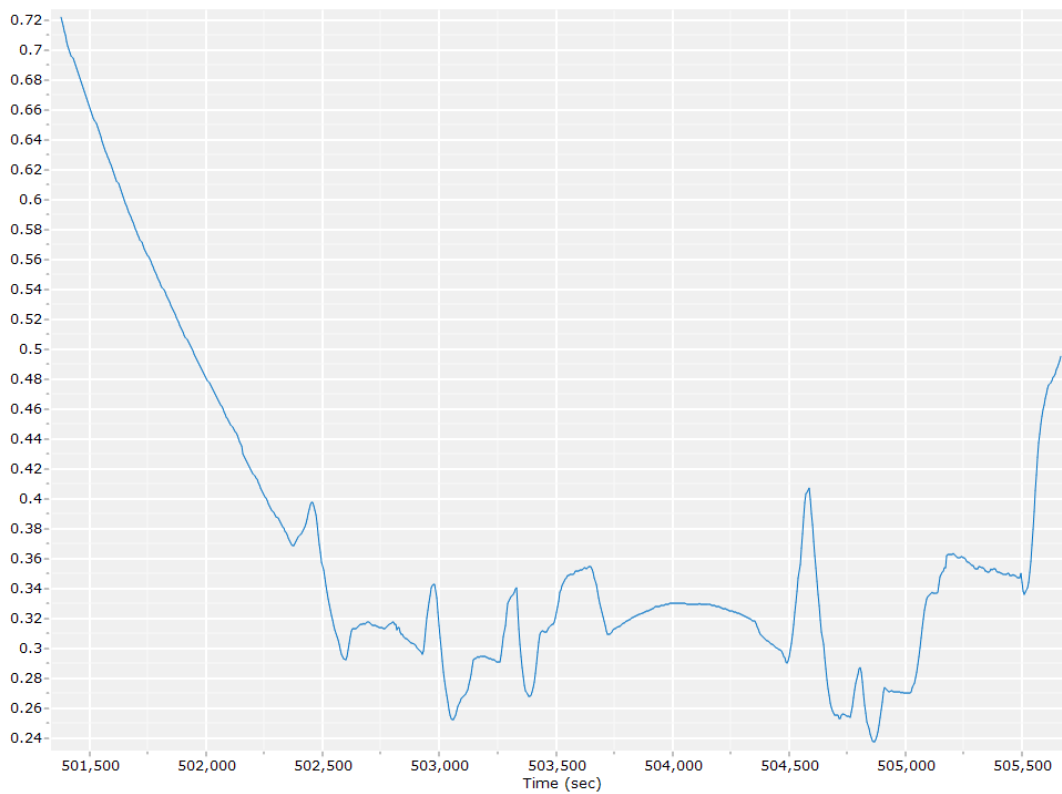
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

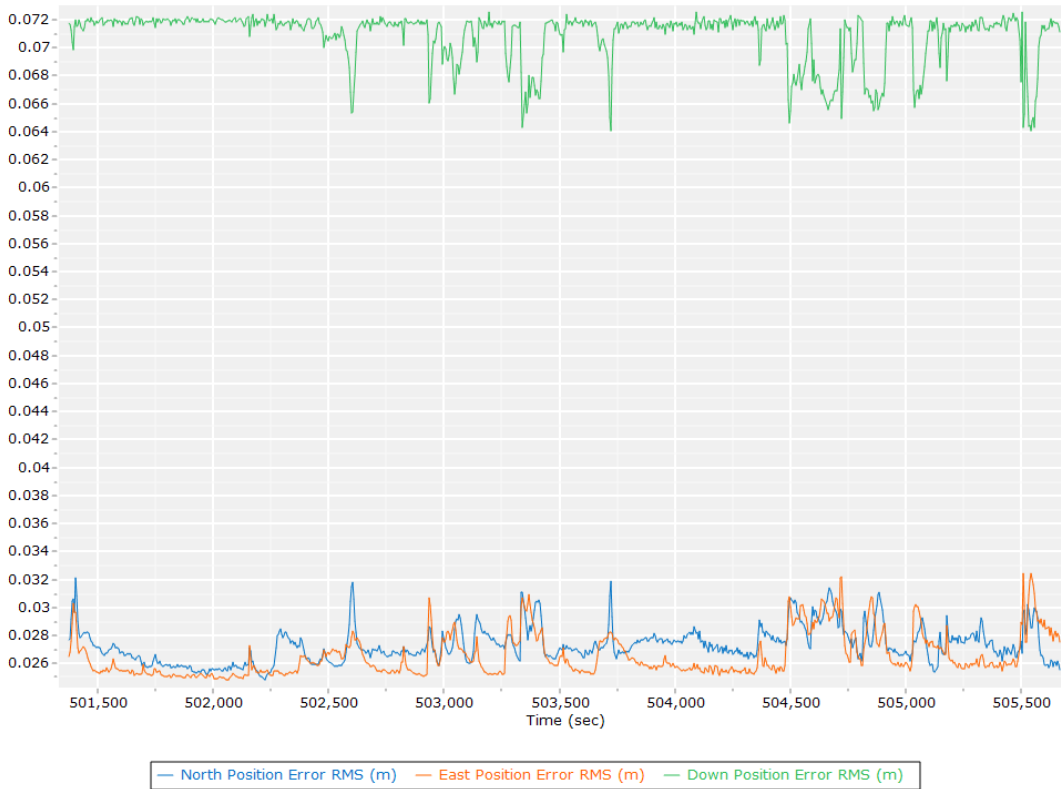


Heading Error RMS (arc-min)

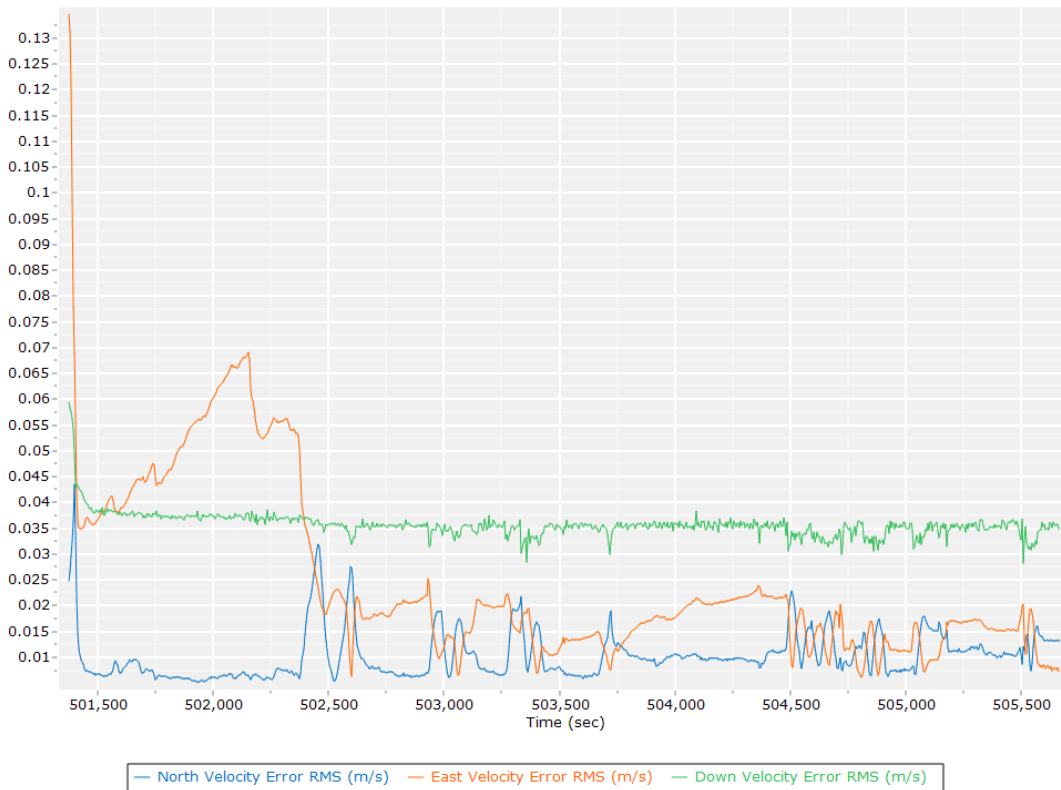


Forward Processed Performance Metrics

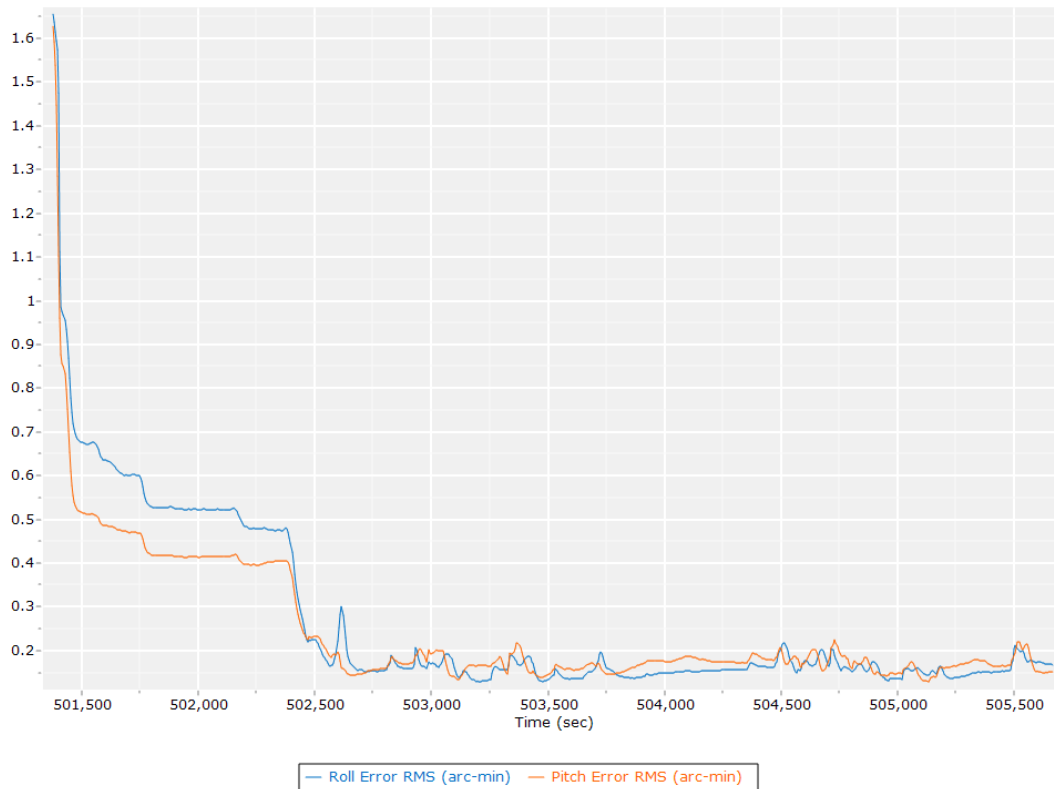
Position Error RMS (m)



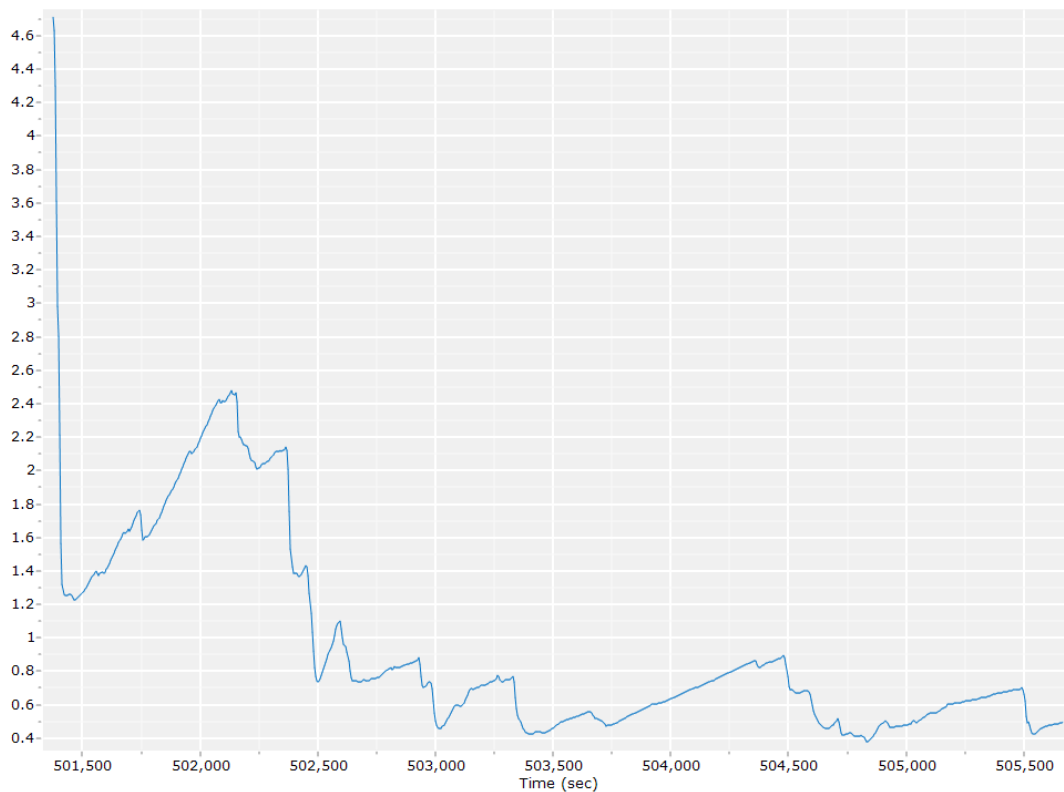
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

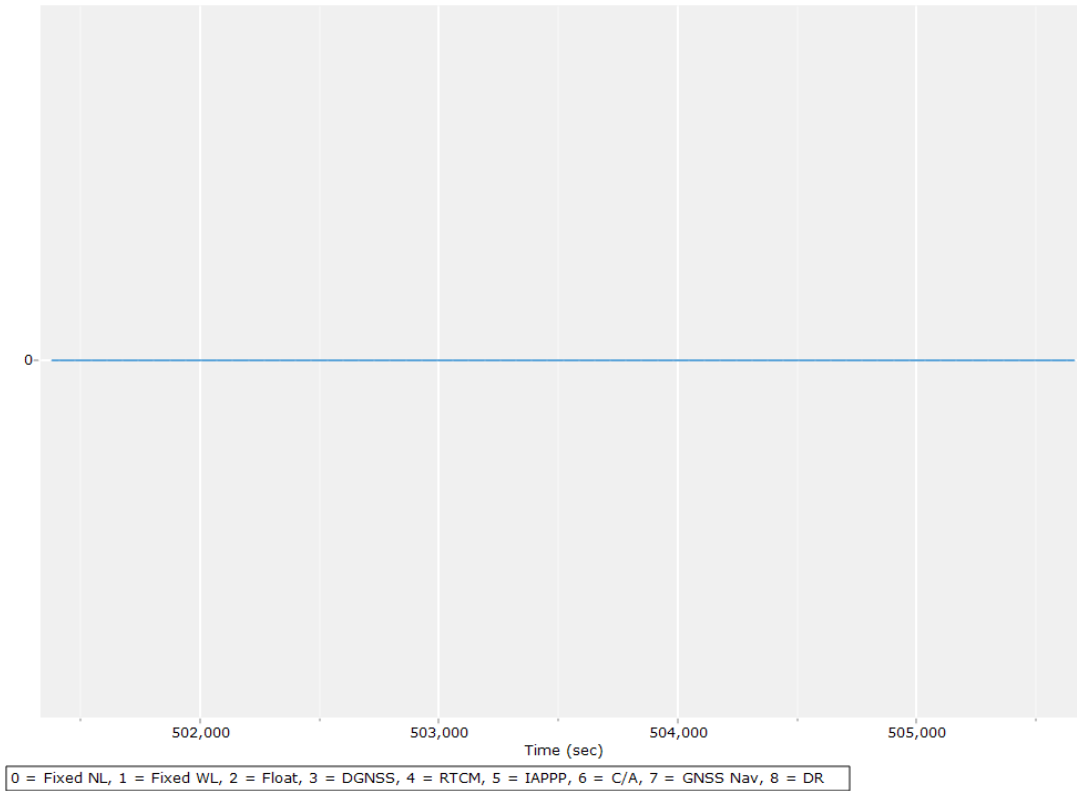


Heading Error RMS (arc-min)

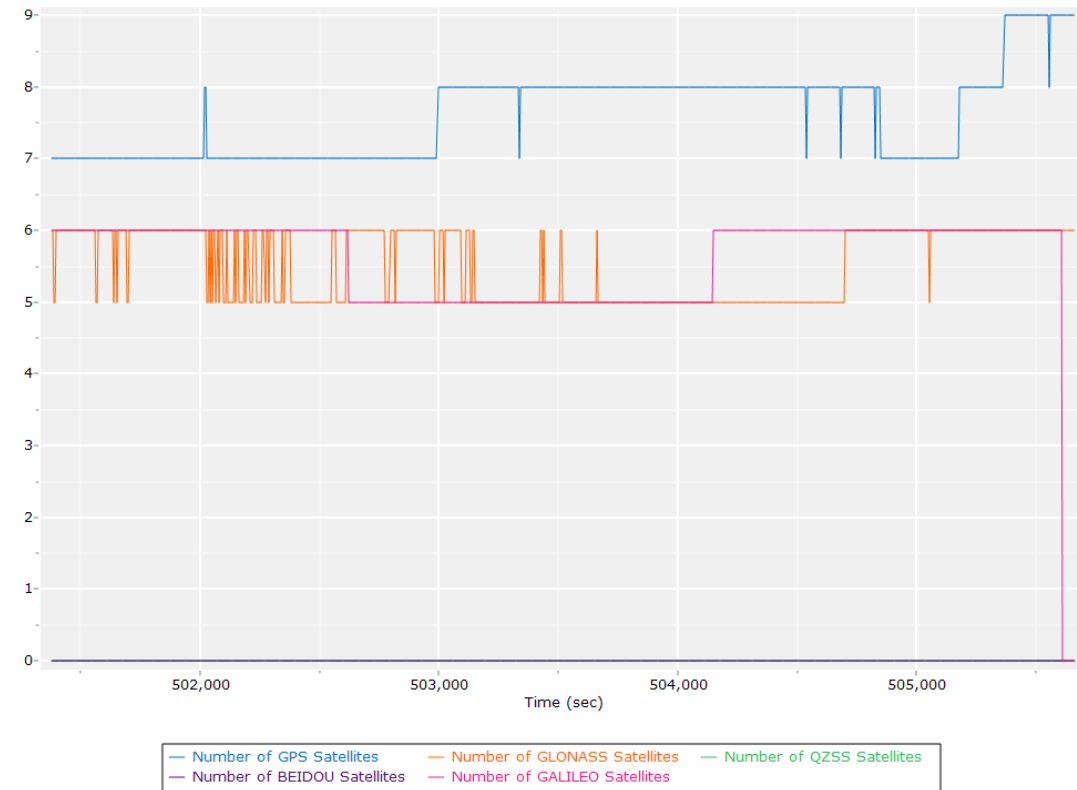


Forward Processed Solution Status

Processing Mode



Number of Satellites



Baseline Length

