General Information

Mission Information

Project name	19-058_052720
Processing date	2020-07-02 17:45:16
Mission date	2020-05-27 23:42:13
Mission duration	01:26:57.546
Processing mode	IN-Fusion SmartBase
GPS Station	ASB

Rover Hardware Information

Product	POS AV 610 VER6 HW2.4-12
Serial number	S/N6310
IMU type	57
Receiver type	BD982
Antenna type	AV39

Project File List

Rover Data Files

File name	File type
ALS.238	POS Data
ALS.239	POS Data
ALS.240	POS Data
ALS.241	POS Data
ALS.242	POS Data
ALS.243	POS Data
ALS.244	POS Data
ALS.245	POS Data
ALS.246	POS Data
ALS.247	POS Data
ALS.248	POS Data
ALS.249	POS Data
ALS.250	POS Data
ALS.251	POS Data
ALS.252	POS Data
ALS.253	POS Data
ALS.254	POS Data
ALS.255	POS Data

Input Files

File Name	File Type
Ephm1480.20g	GLONASS Broadcast Ephemeris
Ephm1480.20n	GPS Broadcast Ephemeris
Ephm1490.20g	GLONASS Broadcast Ephemeris
Ephm1490.20n	GPS Broadcast Ephemeris
igl21072.sp3	GLONASS Precise Ephemeris
igl21073.sp3	GLONASS Precise Ephemeris
igl21074.sp3	GLONASS Precise Ephemeris
igl21075.sp3	GLONASS Precise Ephemeris
igs21072.sp3	GPS Precise Ephemeris
igs21073.sp3	GPS Precise Ephemeris
igs21074.sp3	GPS Precise Ephemeris
igs21075.sp3	GPS Precise Ephemeris
idby1480.20o	GNSS SingleBase
idby1490.20o	GNSS SingleBase
idch1480.20o	GNSS SingleBase
idch1490.20o	GNSS SingleBase
iddu1480.20o	GNSS SingleBase
iddu1490.20o	GNSS SingleBase
idif1480.20o	GNSS SingleBase
idif1490.20o	GNSS SingleBase
idnl1480.20o	GNSS SingleBase
idnl1490.20o	GNSS SingleBase
idsn1480.20o	GNSS SingleBase
idsn1490.20o	GNSS SingleBase
p0231480.20o	GNSS SingleBase
p0231490.20o	GNSS SingleBase
p3571480.20o	GPS SingleBase
p3571490.20o	GPS SingleBase
p3591480.20o	GPS SingleBase
p3591490.20o	GPS SingleBase
p6781480.20o	GPS SingleBase
p6781490.20o	GPS SingleBase
p6791480.20o	GNSS SingleBase
p6791490.20o	GNSS SingleBase
p6811480.20o	GPS SingleBase
p6811490.20o	GPS SingleBase
p6831480.20o	GPS SingleBase
p6831490.20o	GPS SingleBase

File Name	File Type
p6841480.20o	GPS SingleBase
p6841490.20o	GPS SingleBase
p6851480.20o	GNSS SingleBase
p6851490.20o	GNSS SingleBase

Output Files

Filename	File type
sbet_Mission 1.out	SBET Trajectory File

Rover Data Summary

First raw data file	ALS.238		
Last raw data file	ALS.255		
Start GPS week	2107		
Start time	344557.853 (5/27/2020 11:42:19 PM)		
End time	352296.715 (5/28/2020 1:51:18 AM)		
Start of fine alignment	347079.264 (5/28/2020 12:24:21 AM)		
Available subsystems	Primary GNSS, Gimbal, IMU		
POS Event Input	Event 1 Input		
Correction data	None		
IMU Installation Lever Arms & Mounting Angles			
Gimbal to IMU lever arm (m)	0.000	0.000	0.000
Gimbal to IMU mounting angles (deg)	0.000	0.000	0.000
Gimbal to Primary GNSS lever arm (m)	-0.011	0.039	-1.317
Gimbal to Primary GNSS lever arm std dev (m)	-1.000		
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

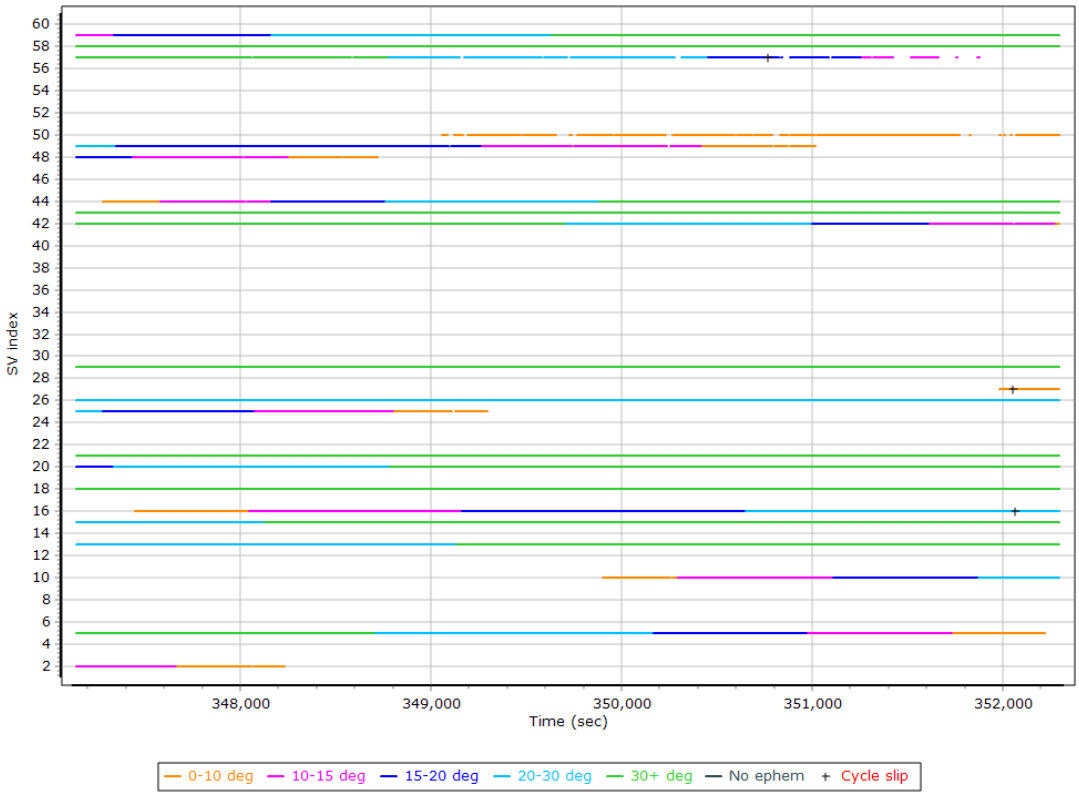
Rover Data QC

Raw IMU Import QC Summary

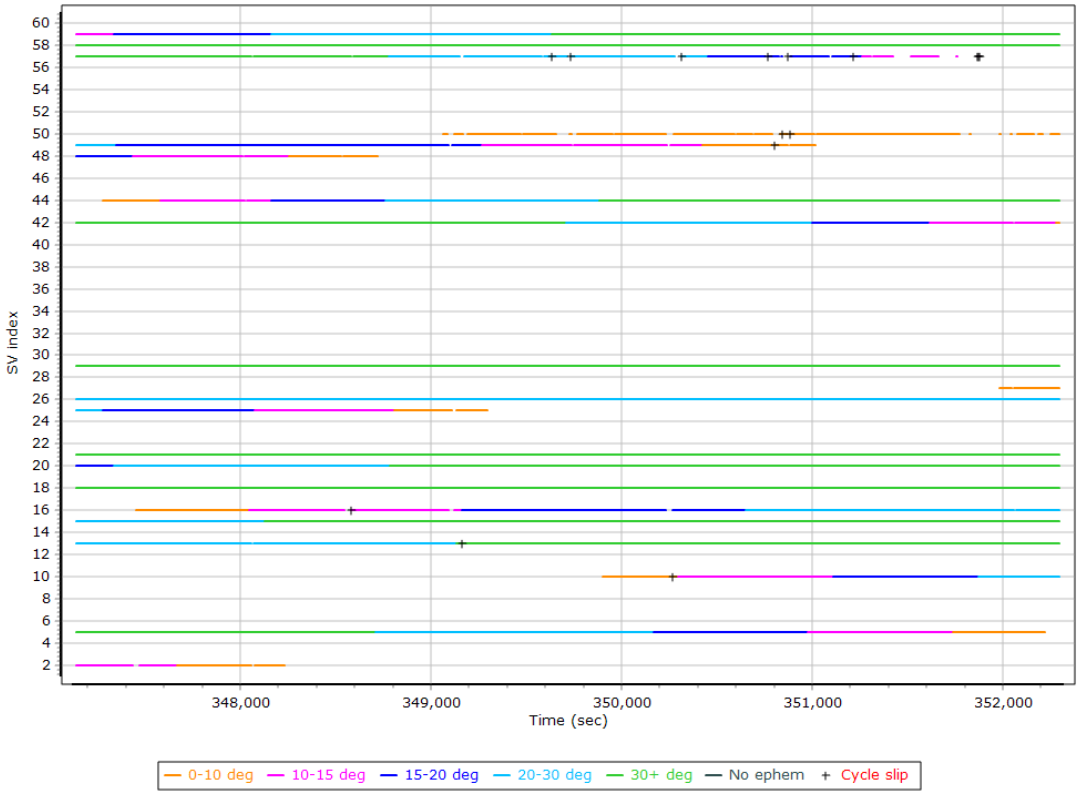
IMU data input file	imu_Mission 1.dat
IMU data check log file	imudt_Mission 1.log
IMU Records Processed	1552430
Termination Status	Warnings
IMU Anomalies	1
IMU Failure Messages	
344544.614 : WARNING : Gap of 344532.6579 seconds in CHECKDT input data	

Primary Observables & Satellite Data

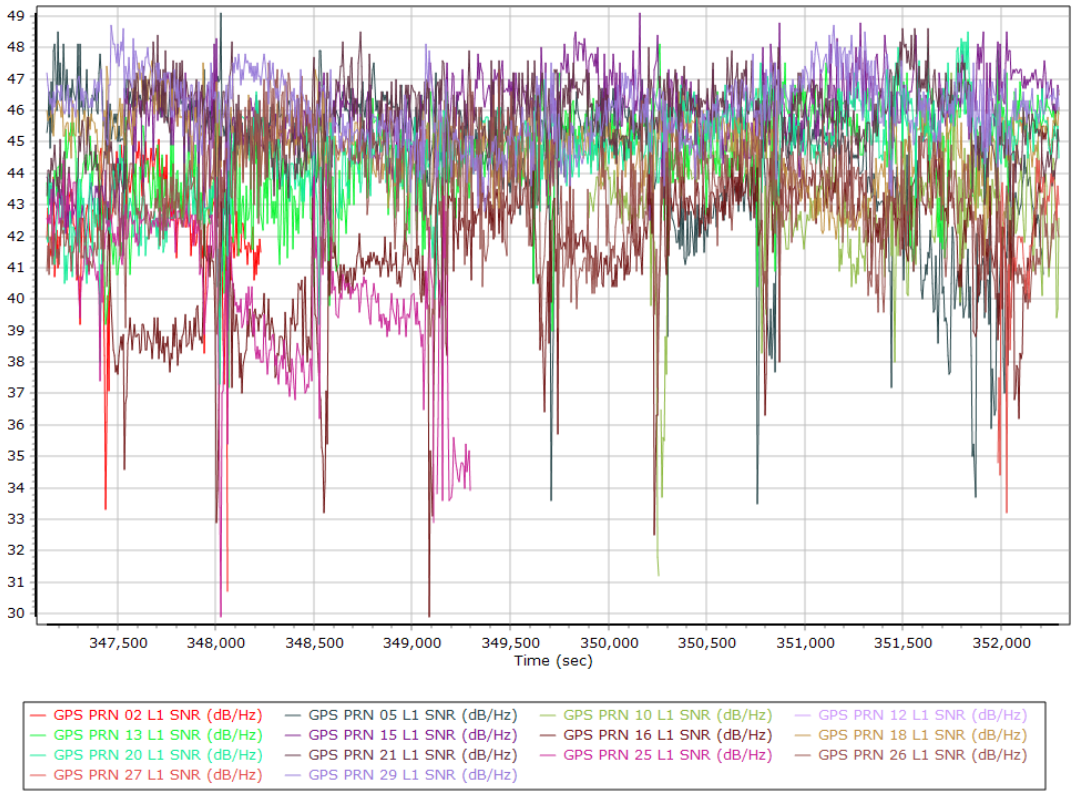
L1 Satellite Lock/Elevation



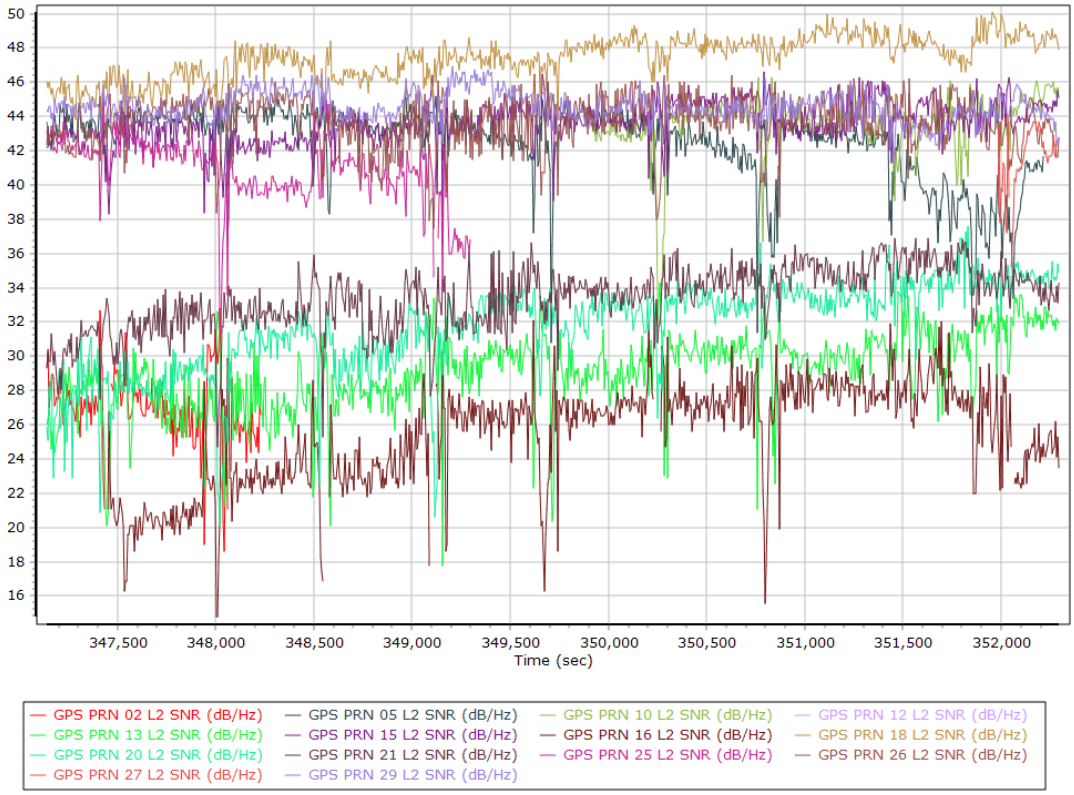
L2 Satellite Lock/Elevation



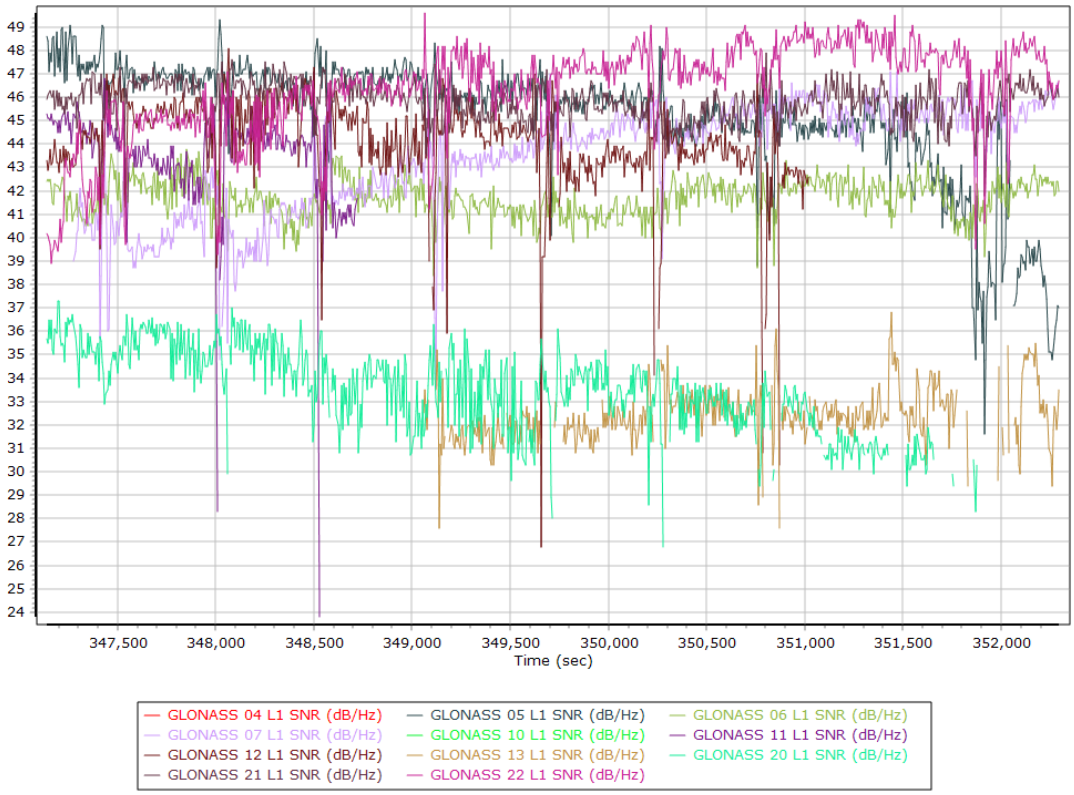
GPS L1 SNR



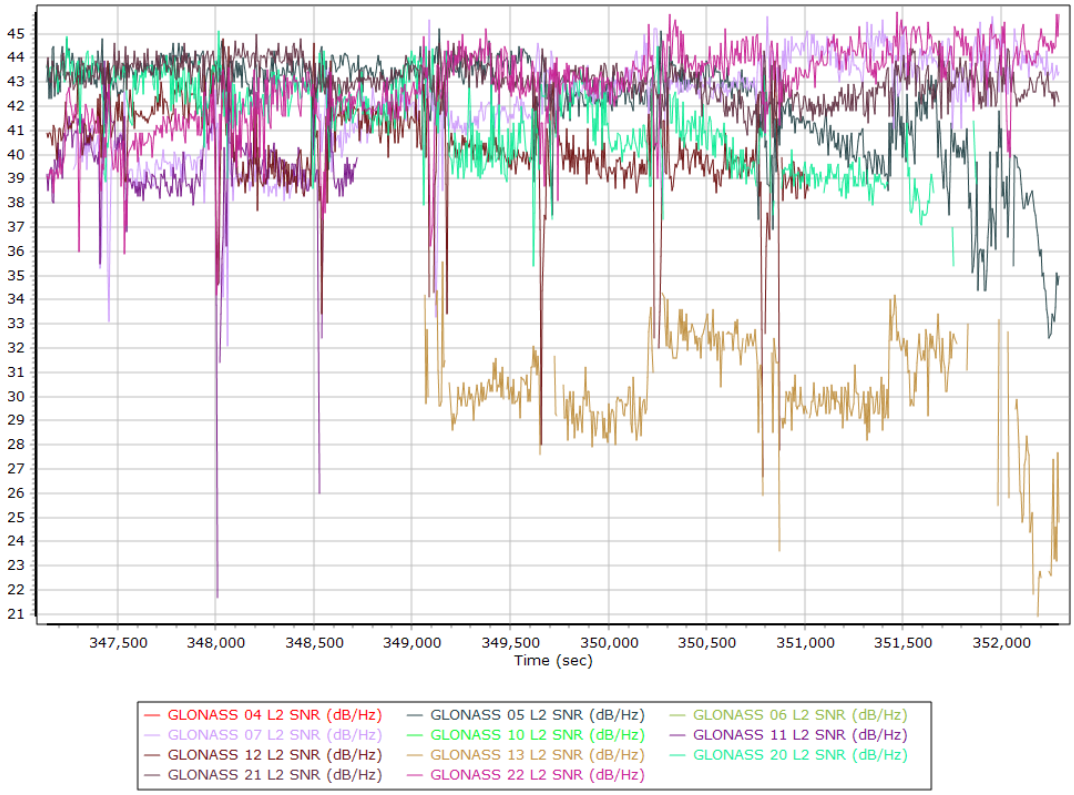
GPS L2 SNR



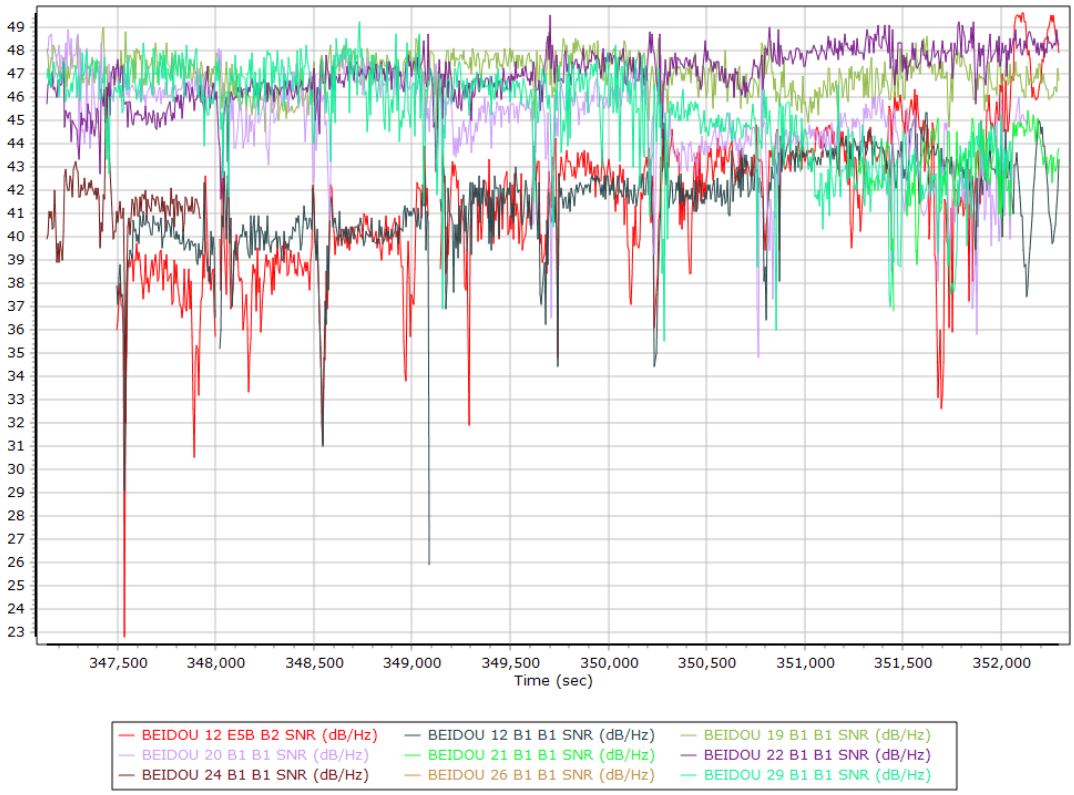
GLONASS L1 SNR



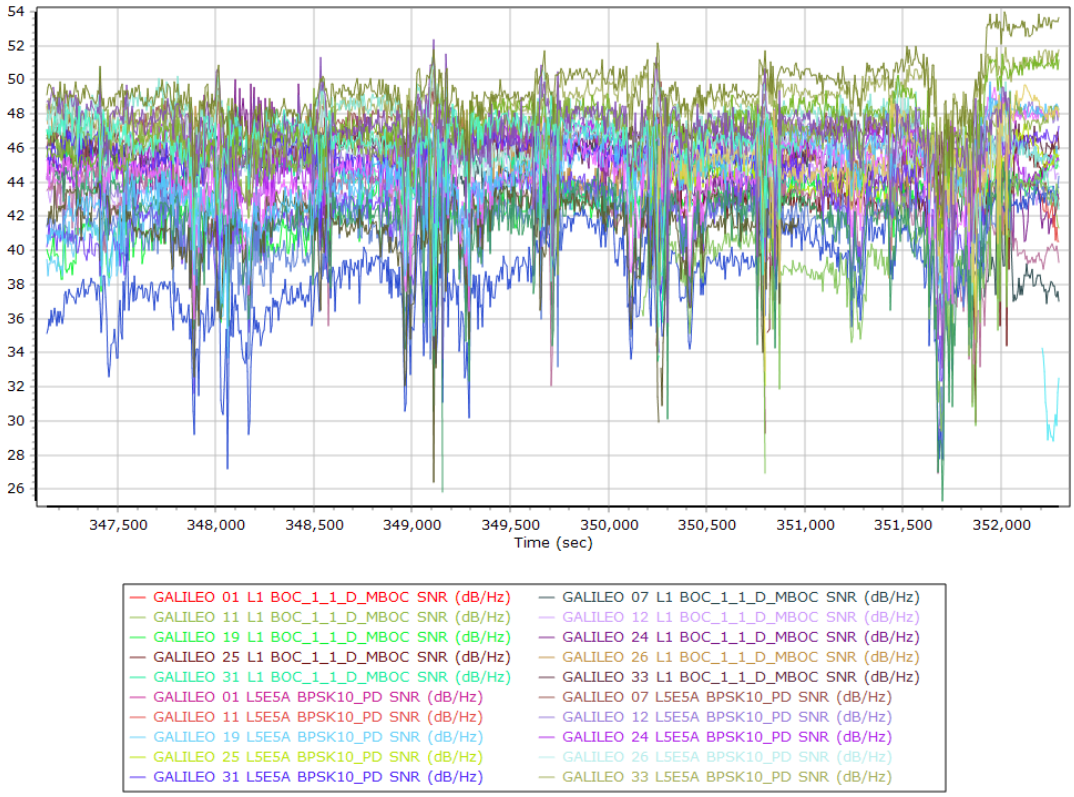
GLONASS L2 SNR



BEIDOU SNR

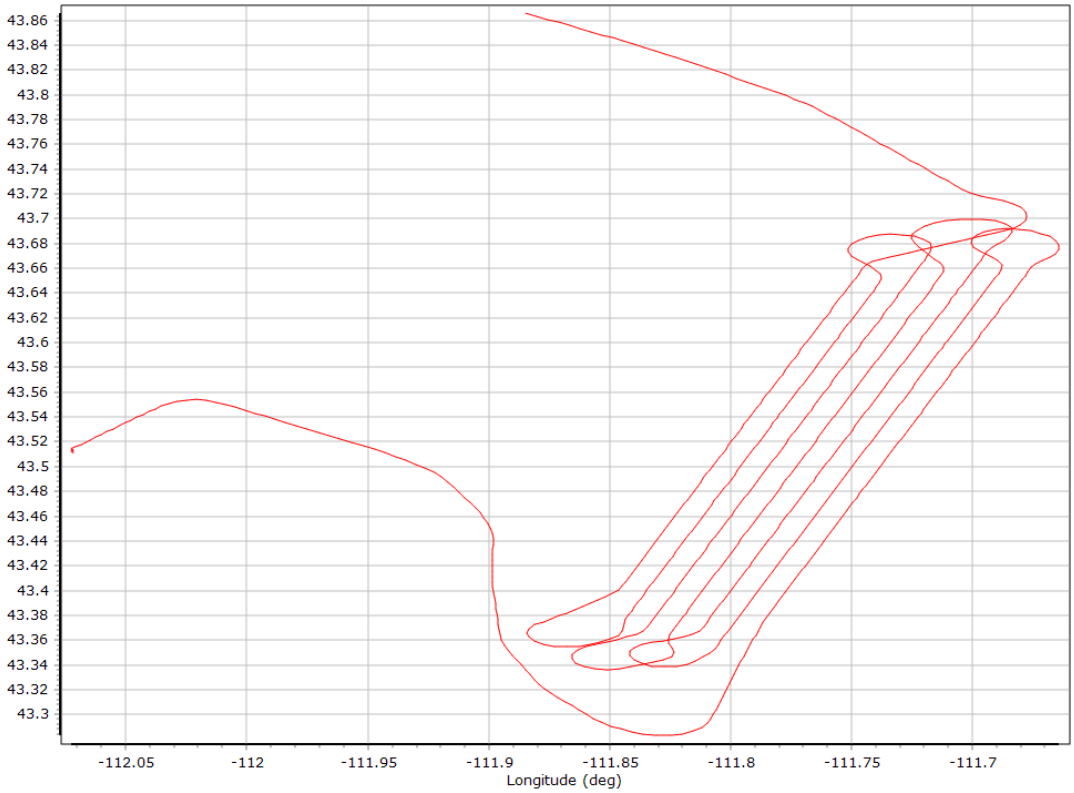


GALILEO SNR

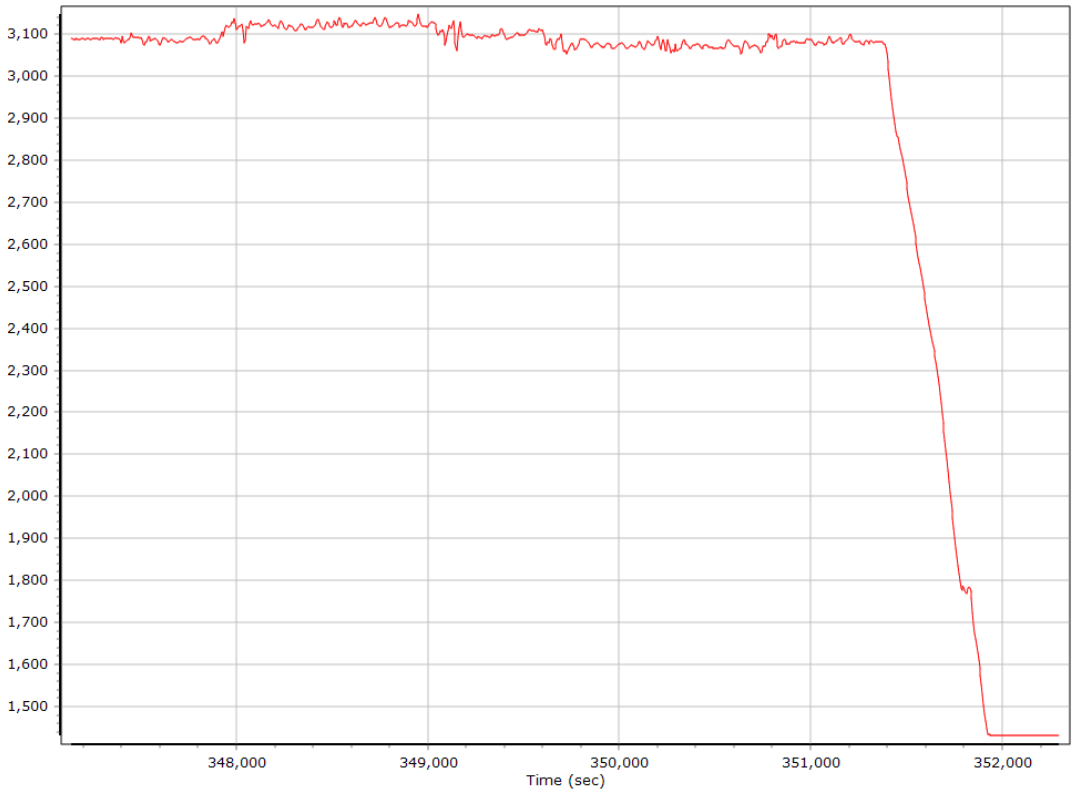

54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
347,500
348,000
348,500
349,000
349,500
350,000
350,500
351,000
351,500
352,000
Time (sec)
GALILEO 01 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 07 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 11 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 12 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 19 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 24 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 25 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 26 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 31 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 33 L1 BOC_1_1_D_MBOC SNR (dB/Hz)
GALILEO 01 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 07 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 11 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 12 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 19 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 24 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 25 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 26 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 31 L5E5A BPSK10_PD SNR (dB/Hz)
GALILEO 33 L5E5A BPSK10_PD SNR (dB/Hz)

Smoothed Trajectory Information

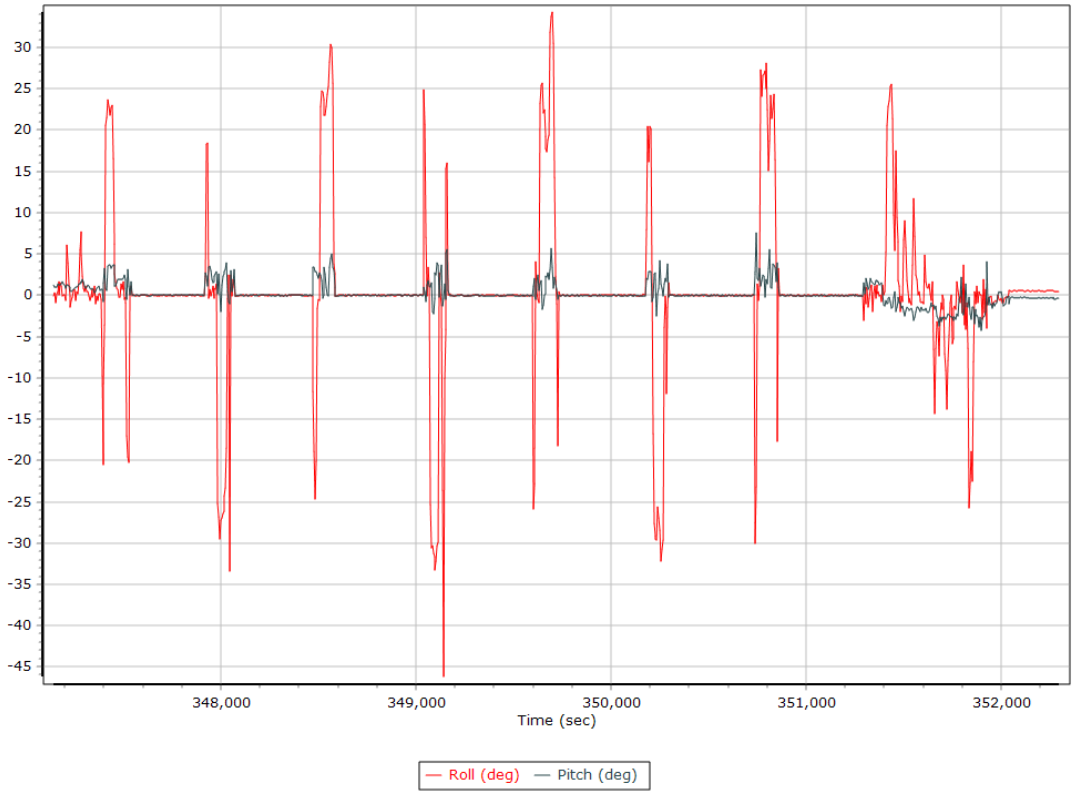
Top View



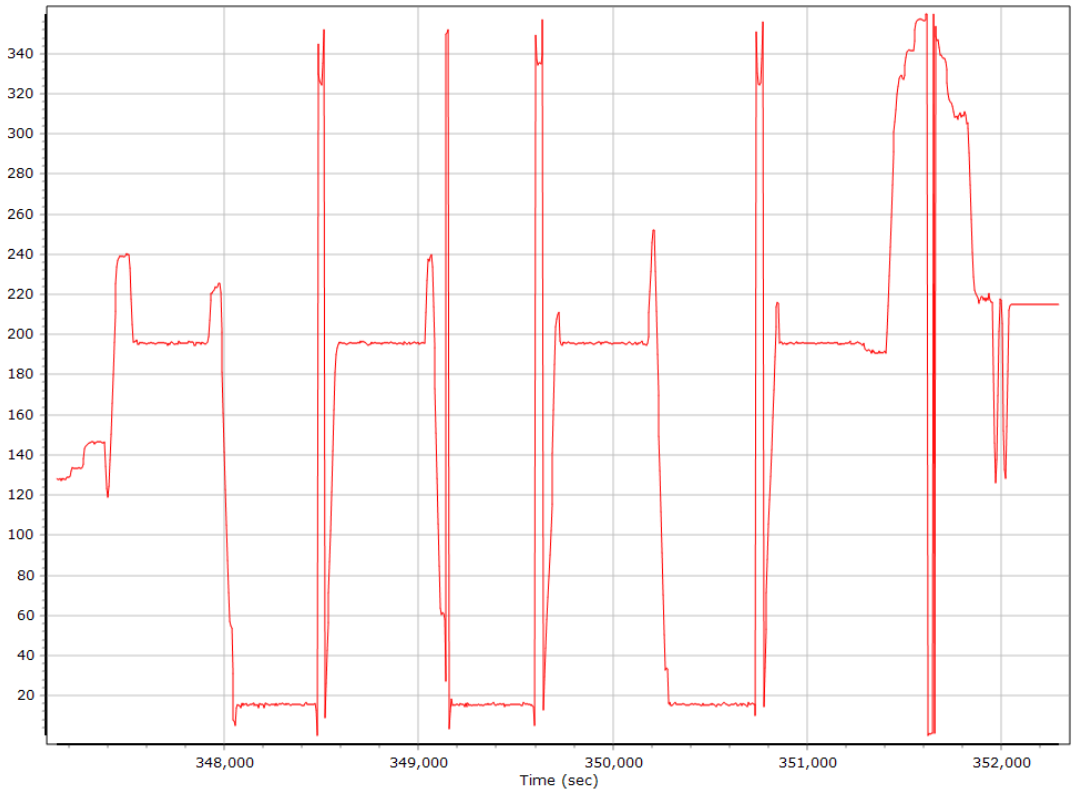
Altitude



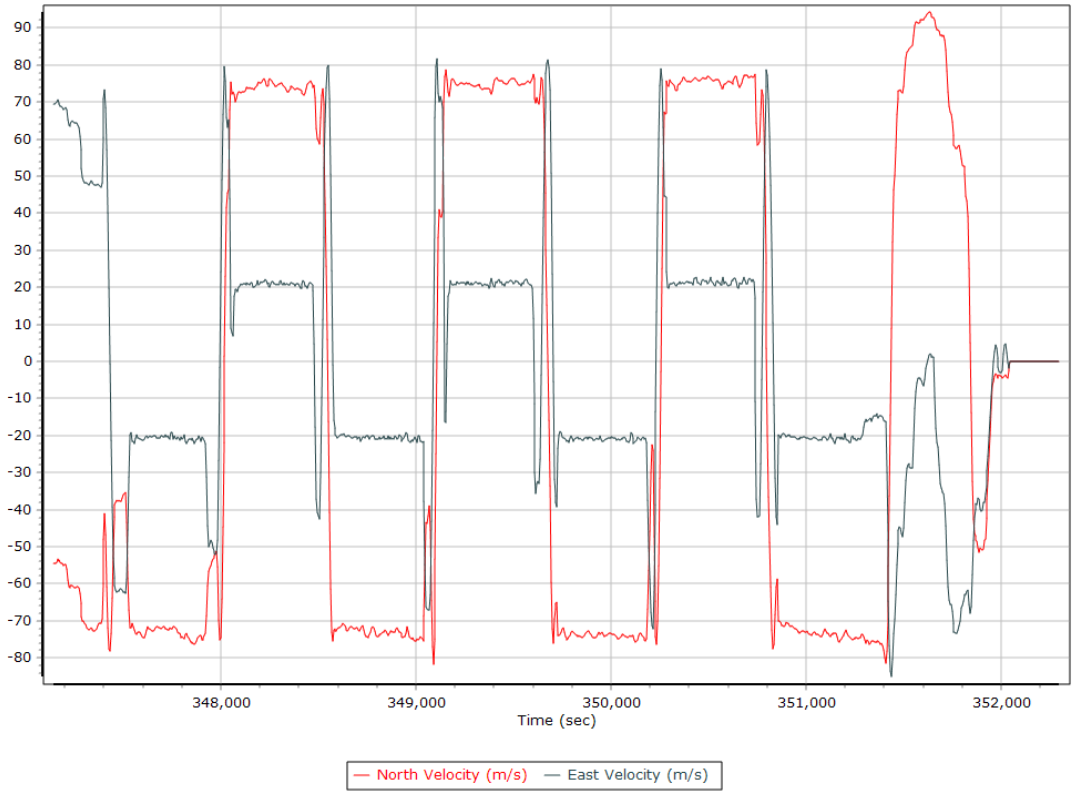
Roll/Pitch



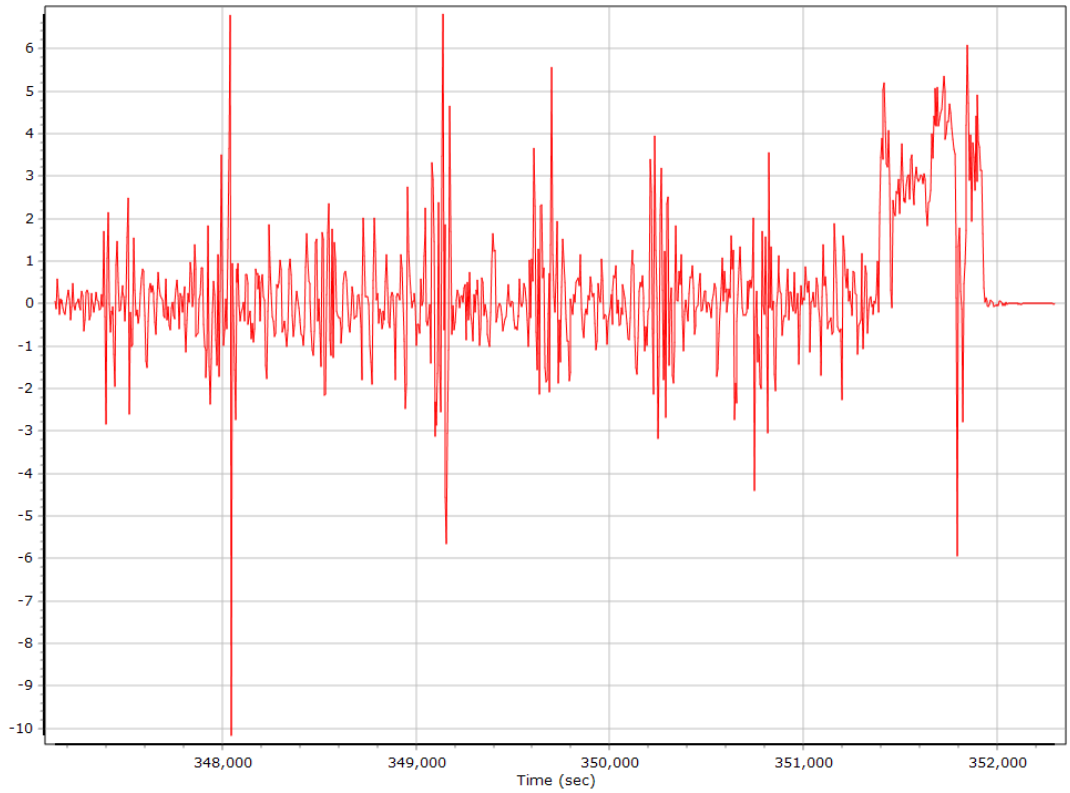
Heading



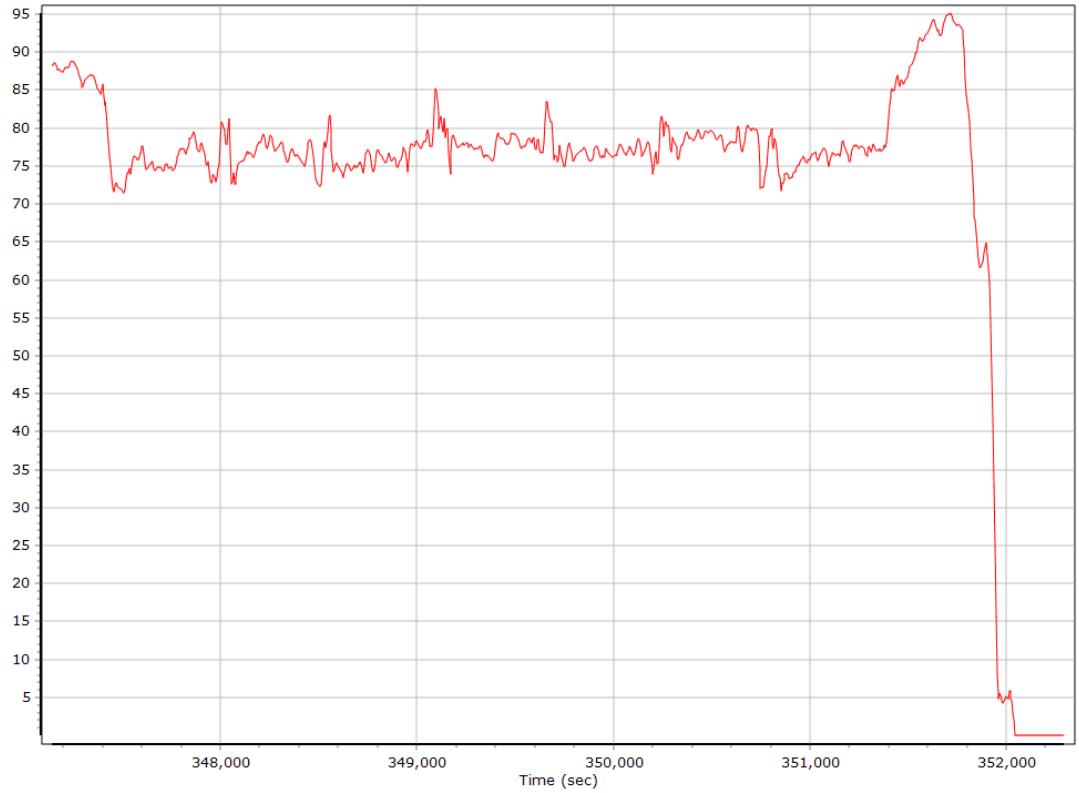
North/East Velocity



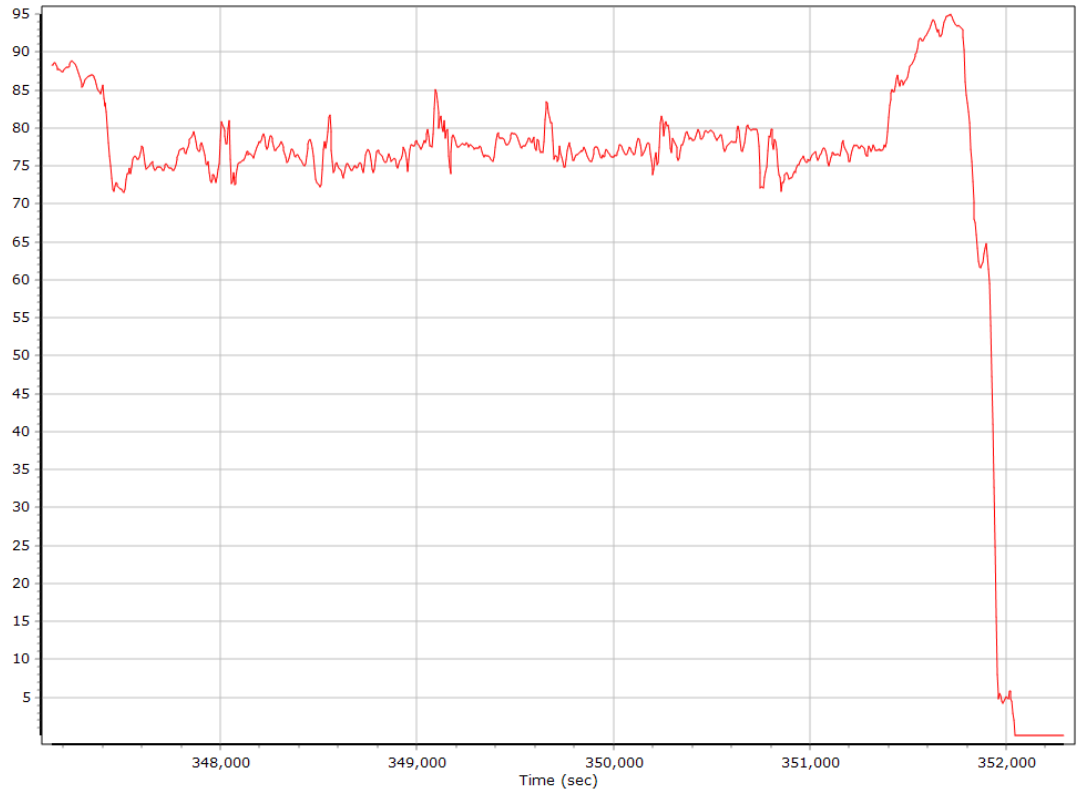
Down Velocity



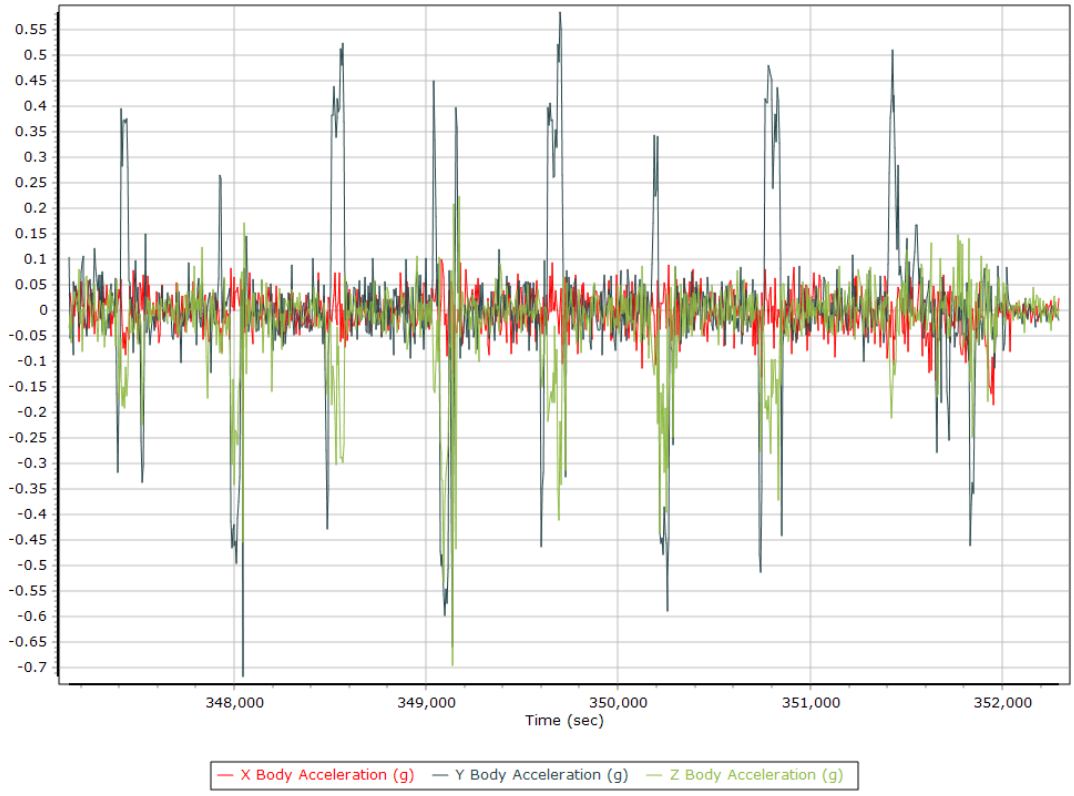
Total Speed



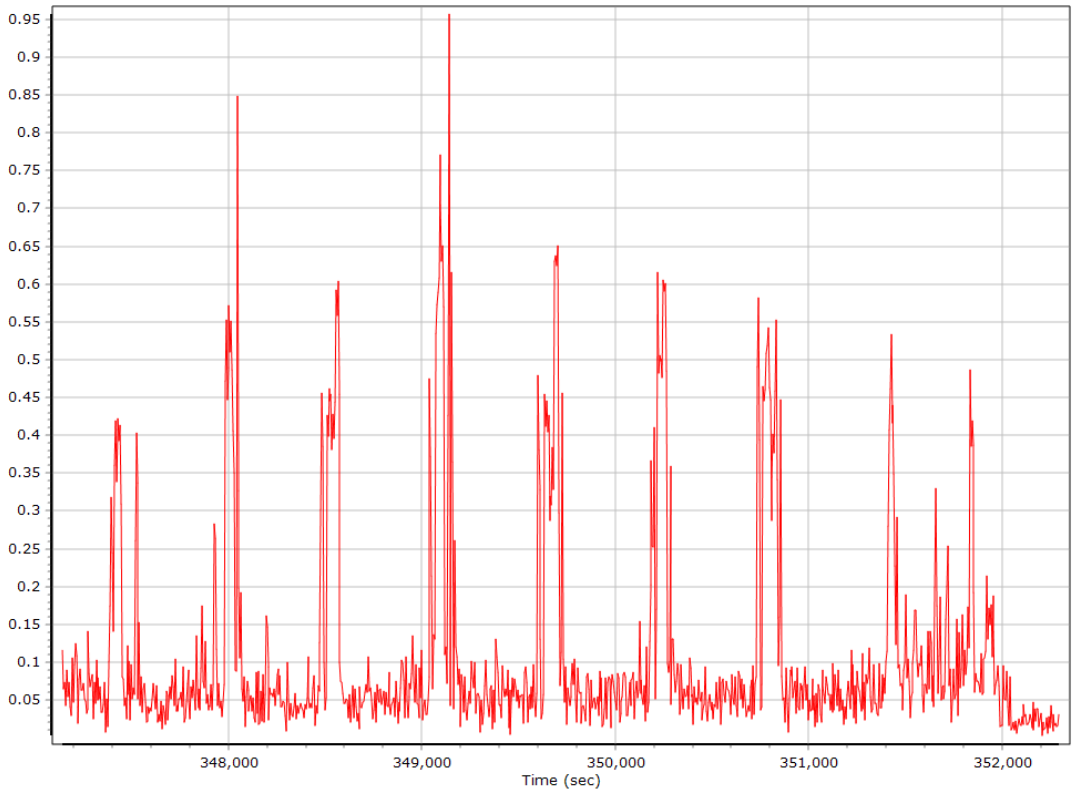
Ground Speed



Body Acceleration



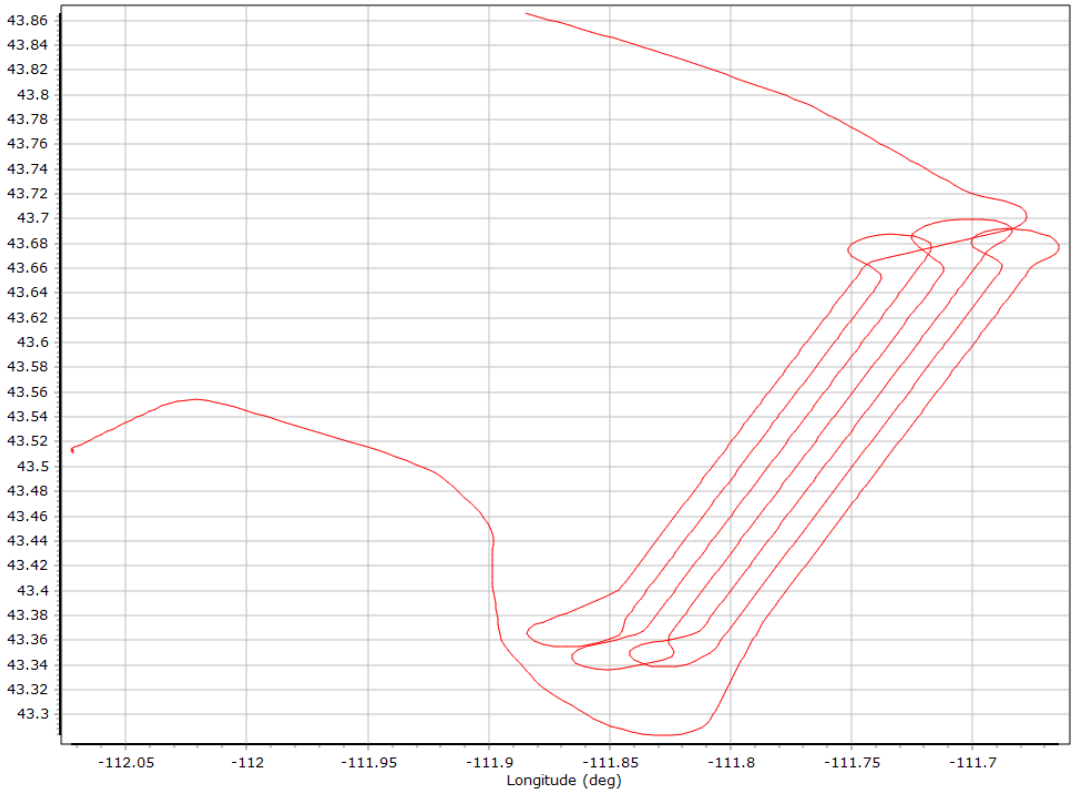
Total Body Acceleration



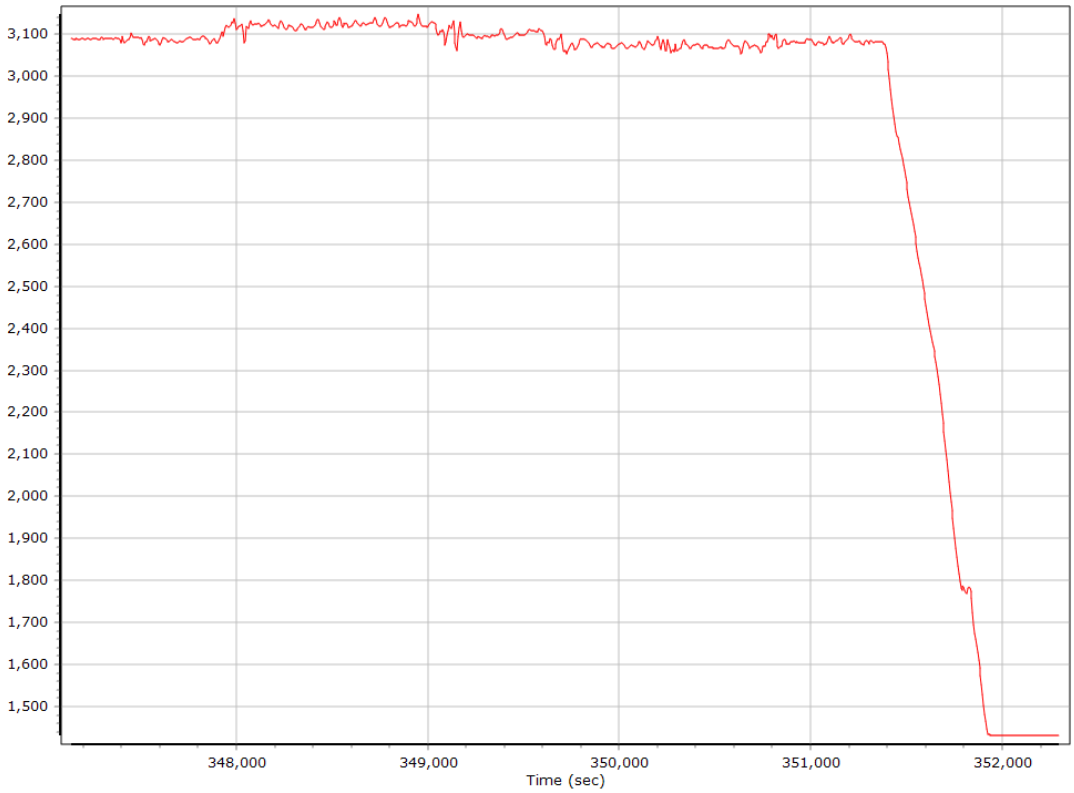
Body Angular Rate

Forward Processed Trajectory Information

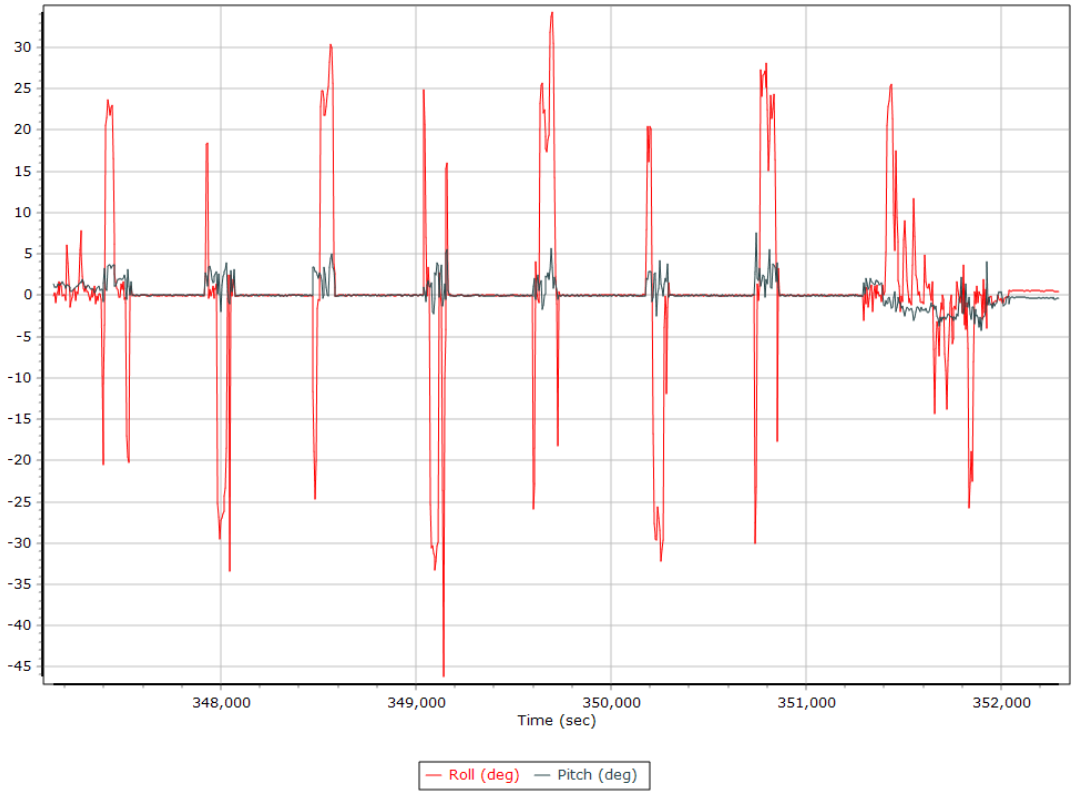
Top View



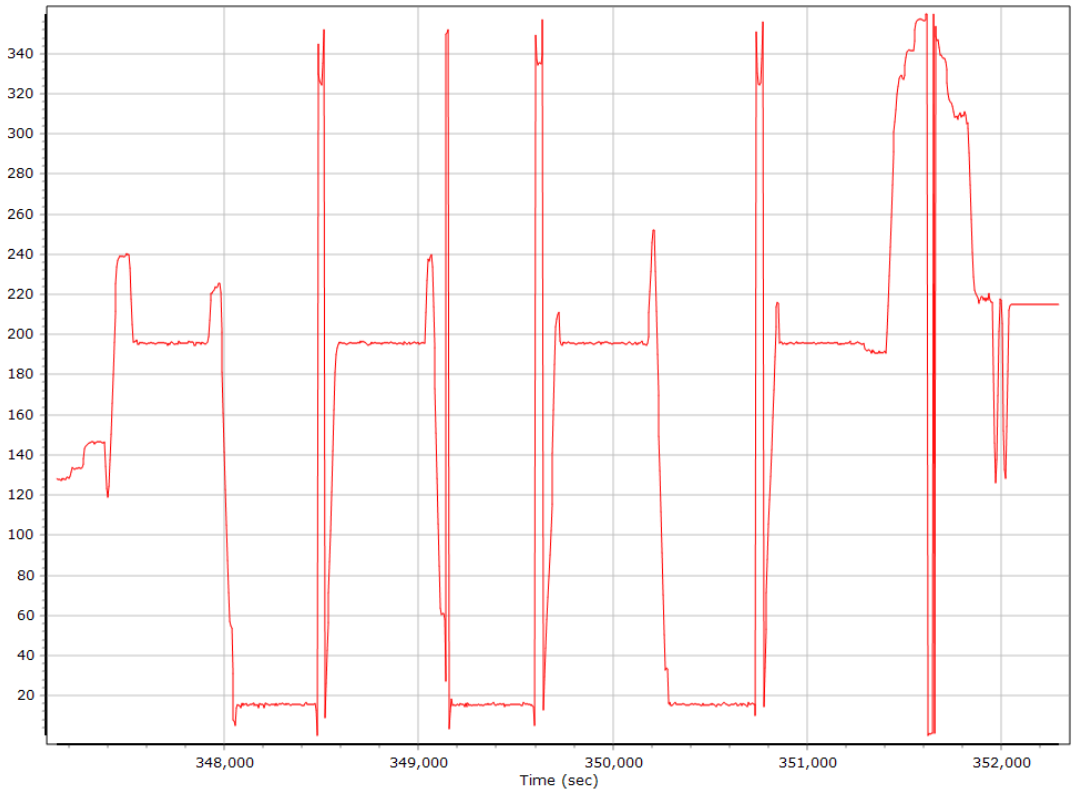
Altitude



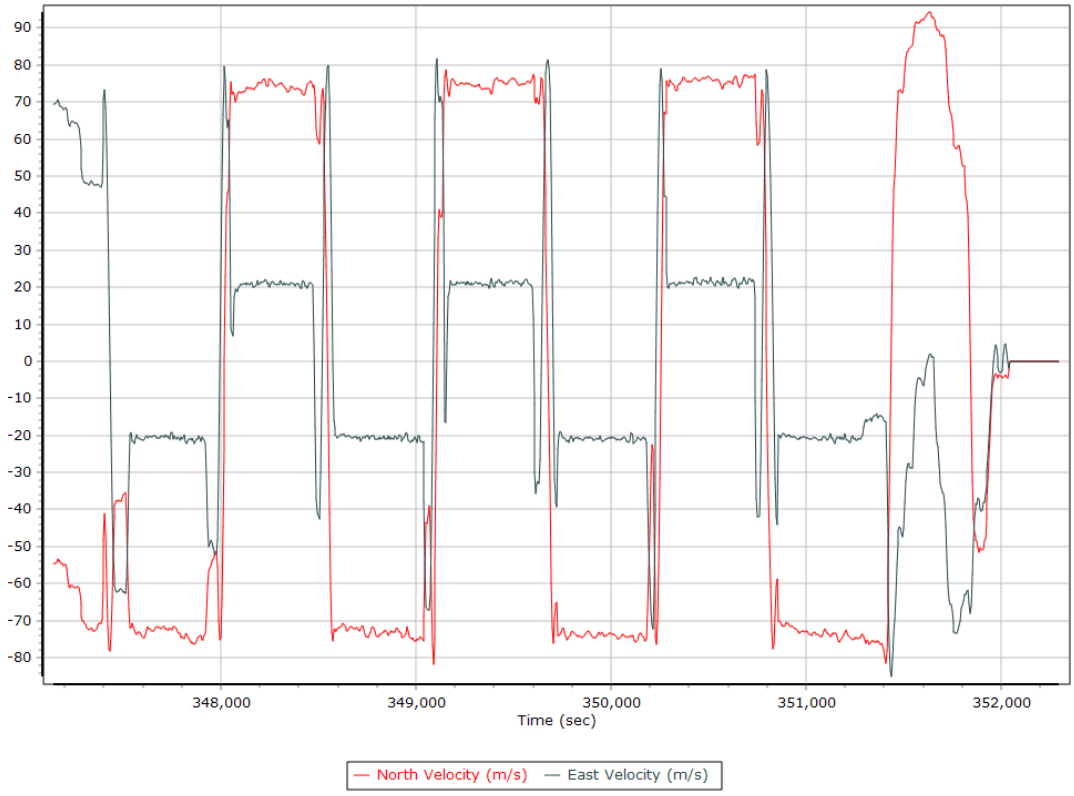
Roll/Pitch



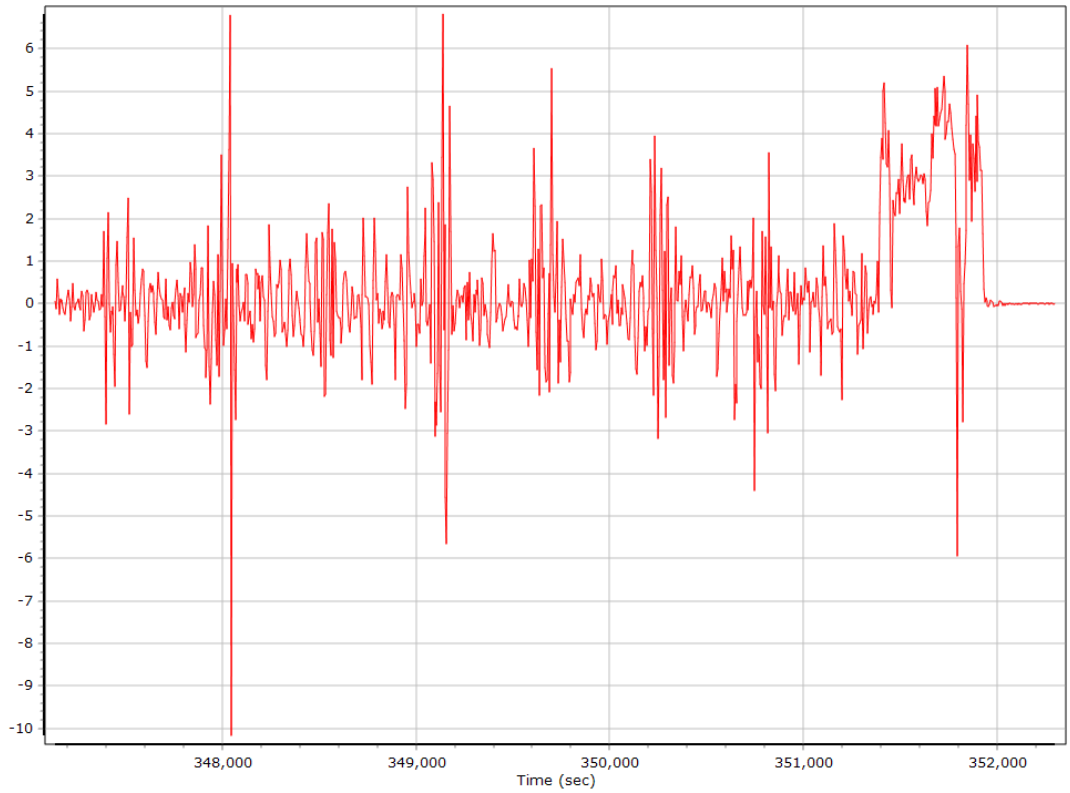
Heading



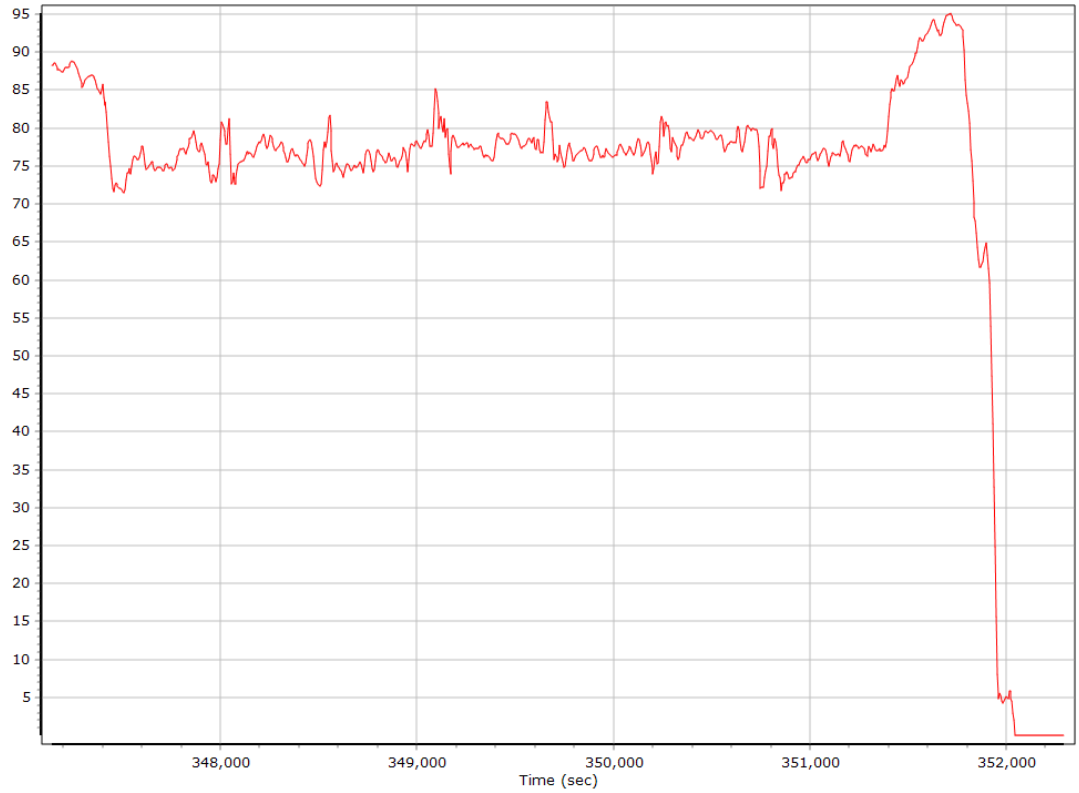
North/East Velocity



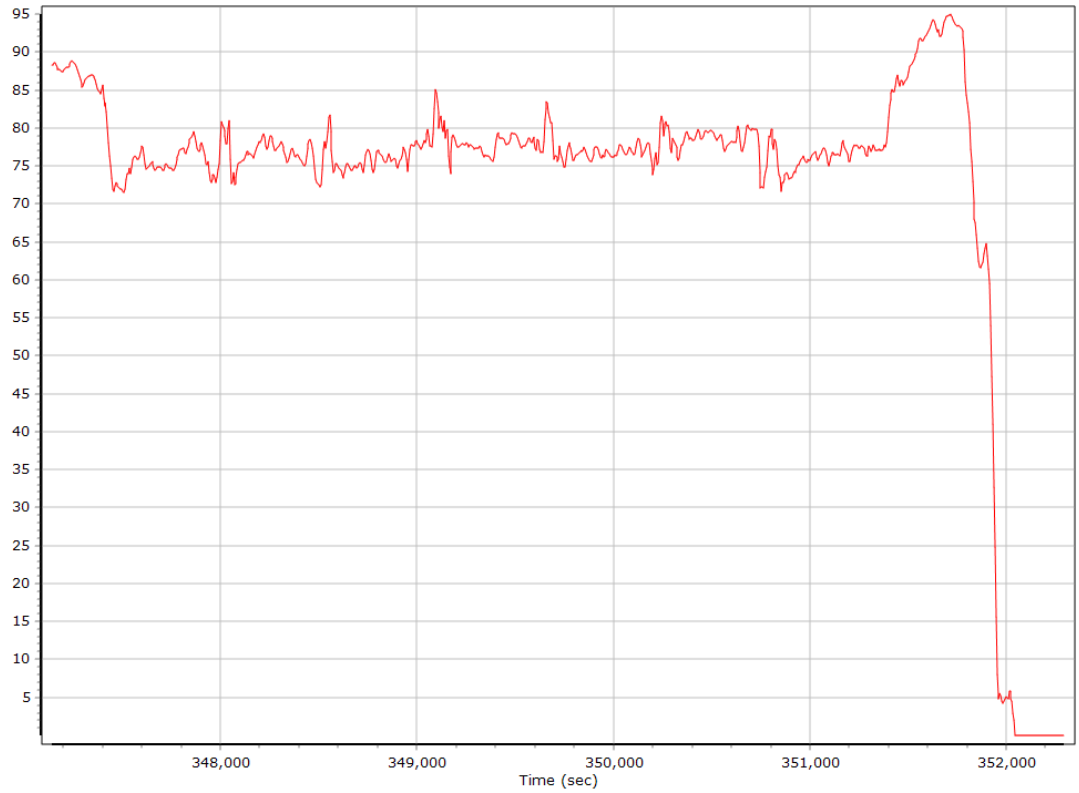
Down Velocity



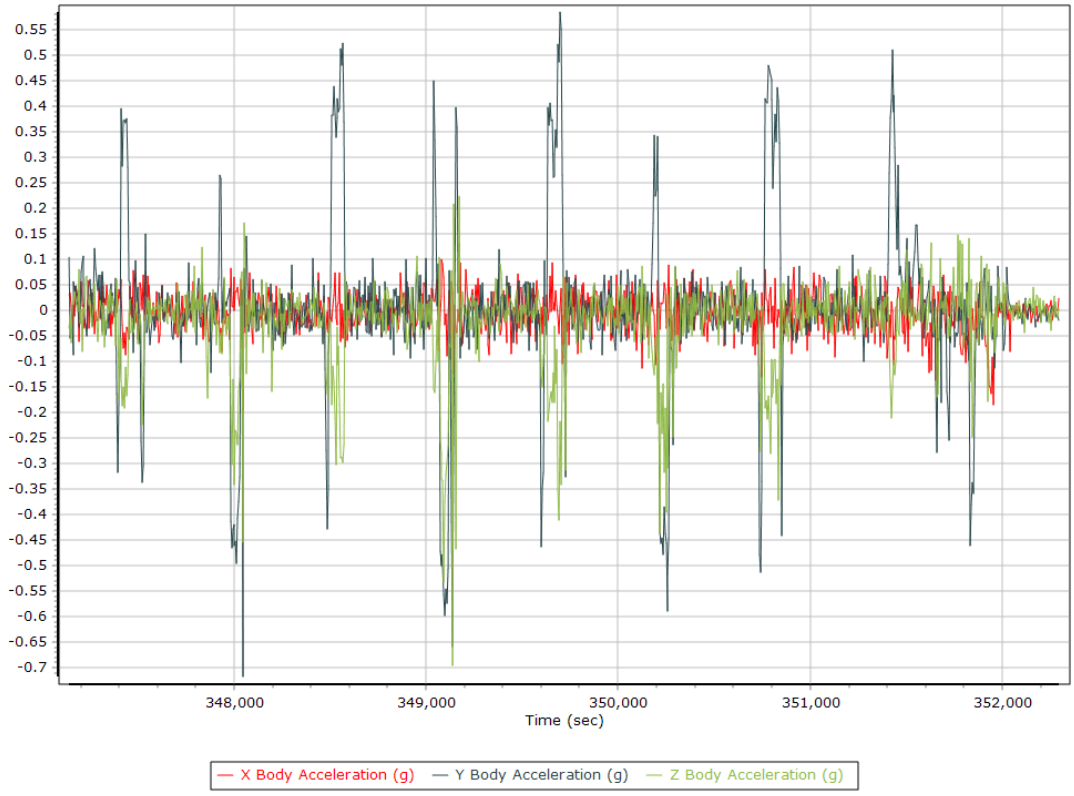
Total Speed



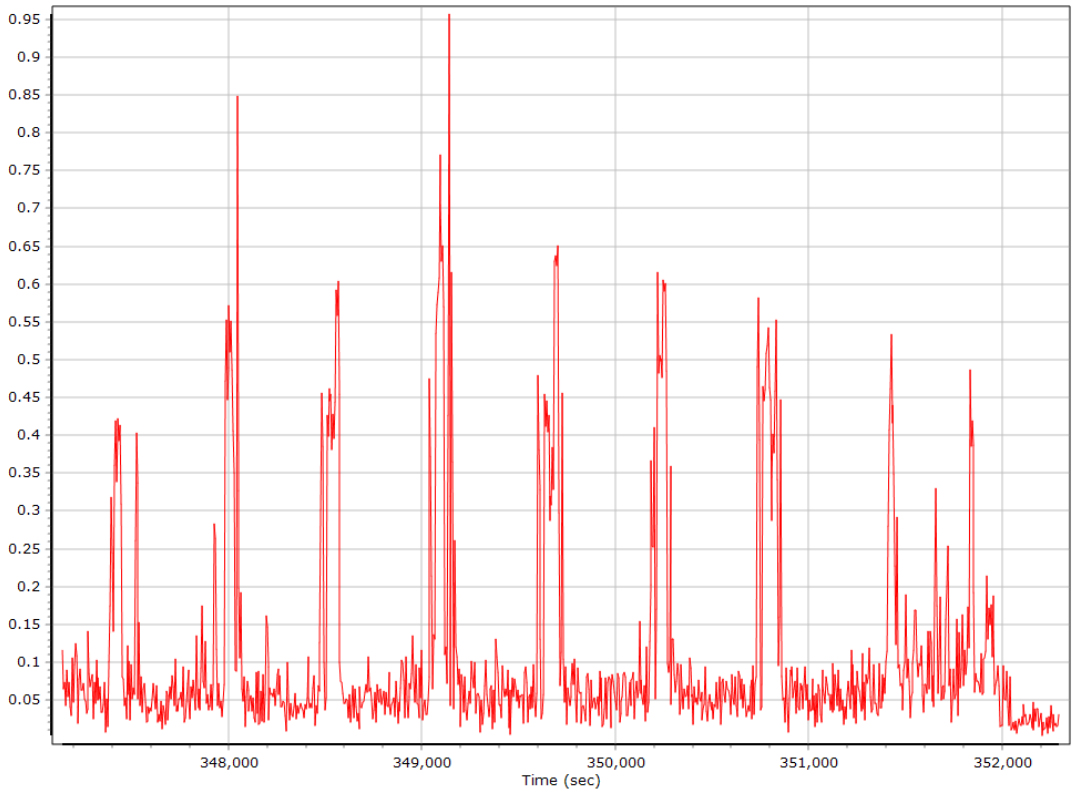
Ground Speed



Body Acceleration



Total Body Acceleration



Body Angular Rate

SmartBase Processing Summary

Smart Select Options

Archive enabled	False
User database enabled	False
Include high-rate data sites	False
Target GNSS Selection	GNSS

Basestation Selection

Date	ID	Dist	System	Rate	Service	Database	Status
05/27/2020	IDIF	19.94	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	IDIF	19.94	GNSS	30	CORS (daily)	Smart Base	Imported
05/27/2020	P359	23.00	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P359	23.00	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	IDBY	32.52	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	IDBY	32.52	GNSS	30	CORS (daily)	Smart Base	Imported
05/27/2020	P684	52.05	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P684	52.05	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	P685	60.00	GNSS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P685	60.00	GNSS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	P683	78.23	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P683	78.23	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	IDDU	79.65	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	IDDU	79.65	GNSS	30	CORS (daily)	Smart Base	Imported
05/27/2020	P678	81.26	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P678	81.26	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	IDNL	97.27	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	IDNL	97.27	GNSS	30	CORS (daily)	Smart Base	Imported
05/27/2020	P681	117.55	GPS	30	CORS (daily)	Smart Base	Imported
05/28/2020	P681	117.55	GPS	30	CORS (daily)	Smart Base	Imported
05/27/2020	P455	129.57	GNSS	15	UNAVCO (daily)	Smart Base	Invalid Antenna
05/28/2020	P455	129.57	GNSS	15	UNAVCO (daily)	Smart Base	Invalid Antenna
05/27/2020	P679	133.49	GNSS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P679	133.49	GNSS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	P358	150.60	GNSS	15	UNAVCO (daily)	Smart Base	Invalid Antenna
05/28/2020	P358	150.60	GNSS	15	UNAVCO (daily)	Smart Base	Invalid Antenna
05/27/2020	P357	162.49	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/28/2020	P357	162.49	GPS	15	UNAVCO (daily)	Smart Base	Imported
05/27/2020	IDCH	222.47	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	IDCH	222.47	GNSS	30	CORS (daily)	Smart Base	Imported
05/27/2020	IDSN	248.93	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	IDSN	248.93	GNSS	30	CORS (daily)	Smart Base	Imported
05/27/2020	P023	375.61	GNSS	30	CORS (daily)	Smart Base	Imported
05/28/2020	P023	375.61	GNSS	30	CORS (daily)	Smart Base	Imported

SmartBase Results

SmartBase status	PROC_STATUS_OK
Primary station Id	IDIF
Primary station data rate (sec)	30.0
VRS/ASB generation rate (sec)	1.0
VRS/ASB timespan	7763 s (2107 344551 - 2107 352314)
Number of reference stations	15
Primary station GPS measurement usage (%)	99.8
Primary station GLONASS measurement usage (%)	62.8
Average number of satellites per epoch	13.4
Max number of GPS stations used	6
Min number of GPS stations used	3
Max number of GLONASS stations used	6
Min number of GLONASS stations used	5
Total full data gap (sec)	0
Total GPS full data gaps	0
Total GLONASS full data gaps	0
Total individual satellite data gap (sec)	17380
GPS precise vs. broadcast ephemeris used	94.2 % / 5.8 %
GLONASS precise vs. broadcast ephemeris used	100.0 % / 0.0 %

Termination Status	Normal

Base Station Information - P023

Station ID	P023		
Filename	p0231480.20o, p0231490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Trimble	NetR9	5832R50350
Antenna manufacturer, model	Trimble	TRM59800-80 w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N44°53'54.35540"		
Longitude	W116°06'10.82802"		
Ellipsoidal height (m)	1521.57713		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - IDSN

Station ID	IDSN		
Filename	idsn1480.20o, idsn1490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Leica	GR50	1870365
Antenna manufacturer, model	Leica	AR10	
Antenna height [m]	0.000		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.1085		
Latitude	N45°11'31.45916"		
Longitude	W113°53'48.96980"		
Ellipsoidal height (m)	1184.59087		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - IDCH

Station ID	IDCH		
Filename	idch1480.20o, idch1490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Leica	GR25	1831274
Antenna manufacturer, model	Leica	AR10	
Antenna height [m]	0.000		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.1085		
Latitude	N44°30'54.48150"		
Longitude	W114°13'12.47831"		
Ellipsoidal height (m)	1545.20084		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P357

Station ID	P357		
Filename	p3571480.20o, p3571490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GPS		
Receiver manufacturer, model, serial no.	Trimble	NetRS	4625209635
Antenna manufacturer, model	Trimble	Choke Ring w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N44°13'37.57412"		
Longitude	W113°34'54.81828"		
Ellipsoidal height (m)	2295.32562		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P679

Station ID	P679		
Filename	p6791480.20o, p6791490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Unknown	Unknown	3052193
Antenna manufacturer, model	Trimble	GNSS Choke w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N44°02'23.34656"		
Longitude	W113°18'23.34041"		
Ellipsoidal height (m)	1936.39072		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P681

Station ID	P681		
Filename	p6811480.20o, p6811490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GPS		
Receiver manufacturer, model, serial no.	Trimble	NetRS	4549261263
Antenna manufacturer, model	Trimble	Choke Ring w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N44°23'59.18867"		
Longitude	W112°38'11.31469"		
Ellipsoidal height (m)	1976.05270		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - IDNL

Station ID	IDNL		
Filename	idnl1480.20o, idnl1490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Leica	GR25	1831094
Antenna manufacturer, model	Leica	AR10	
Antenna height [m]	0.000		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.1085		
Latitude	N43°32'53.38303"		
Longitude	W113°00'32.70194"		
Ellipsoidal height (m)	1508.43333		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P678

Station ID	P678		
Filename	p6781480.20o, p6781490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GPS		
Receiver manufacturer, model, serial no.	Trimble	NetRS	4552261590
Antenna manufacturer, model	Trimble	Choke Ring w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N43°26'56.26479"		
Longitude	W112°48'16.39249"		
Ellipsoidal height (m)	1535.31685		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - IDDU

Station ID	IDDU		
Filename	iddu1480.20o, iddu1490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Leica	GR25	1830280
Antenna manufacturer, model	Leica	AS10	
Antenna height [m]	0.000		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.08		
Latitude	N44°10'27.09392"		
Longitude	W112°14'09.14582"		
Ellipsoidal height (m)	1558.93731		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P683

Station ID	P683		
Filename	p6831480.20o, p6831490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GPS		
Receiver manufacturer, model, serial no.	Trimble	NetRS	4549261245
Antenna manufacturer, model	Trimble	Choke Ring w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N42°49'36.10576"		
Longitude	W111°44'04.34562"		
Ellipsoidal height (m)	2065.67841		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P685

Station ID	P685		
Filename	p6851480.20o, p6851490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Unknown	Unknown	3052212
Antenna manufacturer, model	Trimble	TRM59800-80 w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N44°04'04.60590"		
Longitude	W111°49'48.56620"		
Ellipsoidal height (m)	1606.80332		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P684

Station ID	P684		
Filename	p6841480.20o, p6841490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GPS		
Receiver manufacturer, model, serial no.	Trimble	NetRS	4527253321
Antenna manufacturer, model	Trimble	Choke Ring w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N43°55'08.92982"		
Longitude	W111°27'01.76160"		
Ellipsoidal height (m)	1693.89881		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - IDBY

Station ID	IDBY		
Filename	idby1480.20o, idby1490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Leica	GRX1200+GNSS	456883
Antenna manufacturer, model	Leica	AR10	
Antenna height [m]	0.000		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.1085		
Latitude	N43°49'13.29371"		
Longitude	W111°47'00.78791"		
Ellipsoidal height (m)	1493.11923		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - P359

Station ID	P359		
Filename	p3591480.20o, p3591490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:27 PM		
Duration	1:23:59:45.000		
Data type	GPS		
Receiver manufacturer, model, serial no.	Trimble	NetRS	4625209424
Antenna manufacturer, model	Trimble	Choke Ring w/SCIT Dome	
Antenna height [m]	0.008		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.11		
Latitude	N43°28'56.96046"		
Longitude	W111°31'46.21012"		
Ellipsoidal height (m)	2116.42859		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

Base Station Information - IDIF

Station ID	IDIF		
Filename	idif1480.20o, idif1490.20o		
Start date	5/26/2020 11:59:42 PM		
End date	5/28/2020 11:59:12 PM		
Duration	1:23:59:30.000		
Data type	GNSS		
Receiver manufacturer, model, serial no.	Trimble	NetR5	4813K54811
Antenna manufacturer, model	Trimble	Zephyr Geodetic	
Antenna height [m]	0.000		
Antenna measurement method	Bottom of antenna mount		
Offset from measured point to APC (m)	0.05326		
Latitude	N43°31'06.89618"		
Longitude	W112°03'07.21364"		
Ellipsoidal height (m)	1438.06549		
Frame	ITRF00		
Epoch	2020.401639		
Ellipsoid	WGS84		
Velocity North (mm/y)	0		
Velocity East (mm/y)	0		
Velocity Up (mm/y)	0		

GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	1.82	282.10	
Number of GPS SV	7	11	10
Number of GLONASS SV	0	5	4
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	0	0	0
Total number of SV	7	16	13
PDOP	1.31	2.23	1.54
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	7729.00	0.00	0.00
Percentage	100.00	0.00	0.00

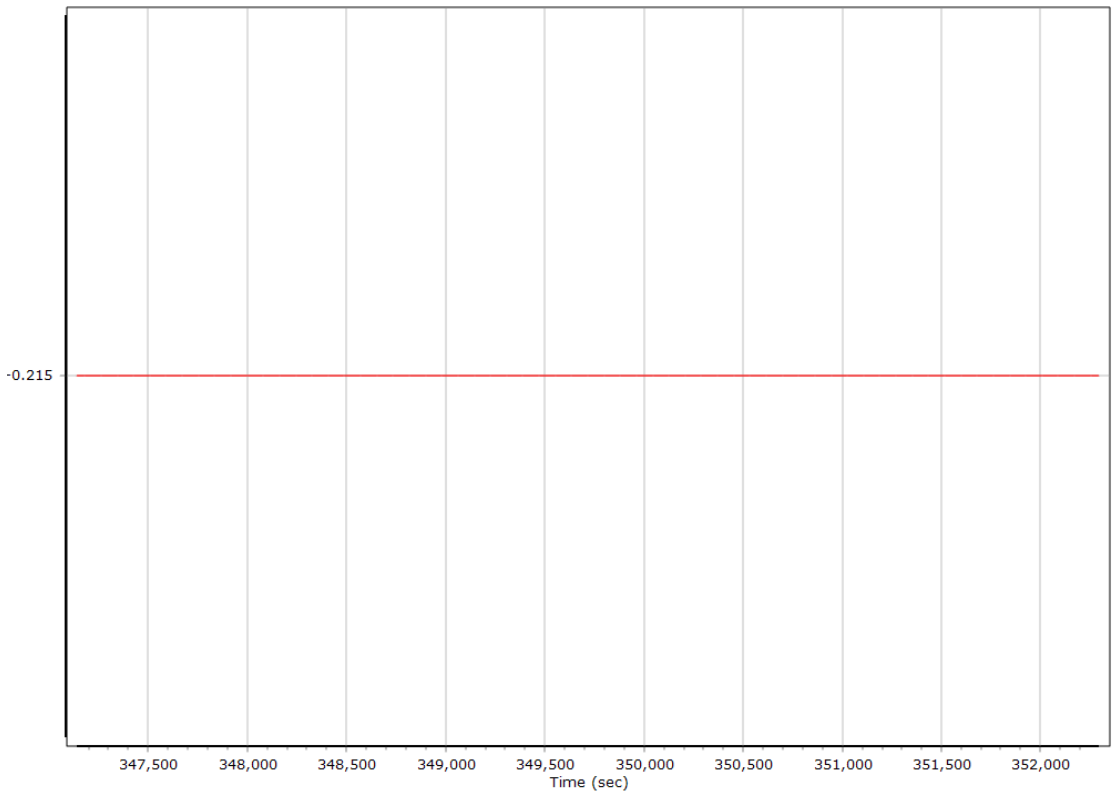
GNSS-Inertial Processor Configuration

Processing mode	IN-Fusion SmartBase		
Stabilized mount	True		
Base station	ASB		
Processing start time	347078.454 (5/28/2020 12:24:20 AM)		
Processing end time	352296.000 (5/28/2020 1:51:18 AM)		
Initial attitude source	Real-Time VNAV/RNAV Attitude		
IMU Sensor Context	Processing with Onboard IMU		
Gimbal to IMU lever arm (m)	0.000	0.000	0.000
Gimbal to IMU mounting angles (deg)	0.000	0.000	0.000
Gimbal to Primary GNSS lever arm (m)	-0.215	-0.027	-0.964
Gimbal to Primary GNSS lever arm std dev (m)	0.030	0.030	0.030
Aircraft to Reference mounting angles (deg)	0.000	0.000	0.000

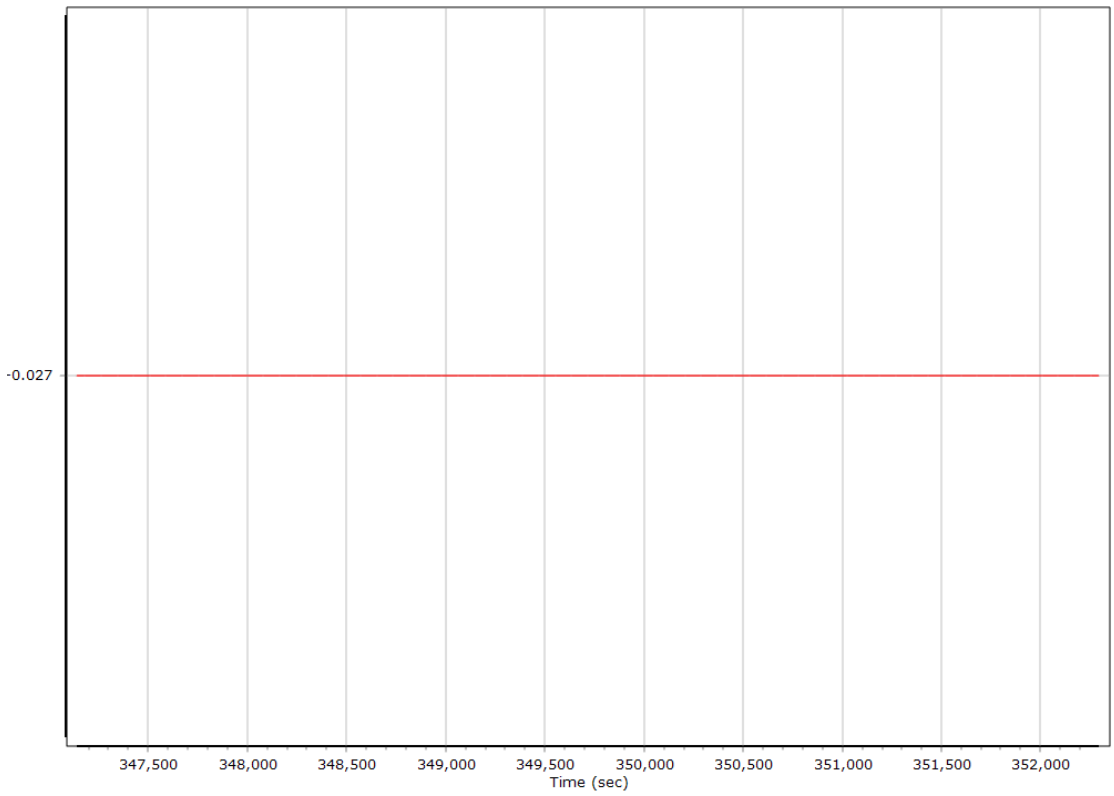
Calibrated Installation Parameters

Reference-Primary GNSS Lever Arm (m)

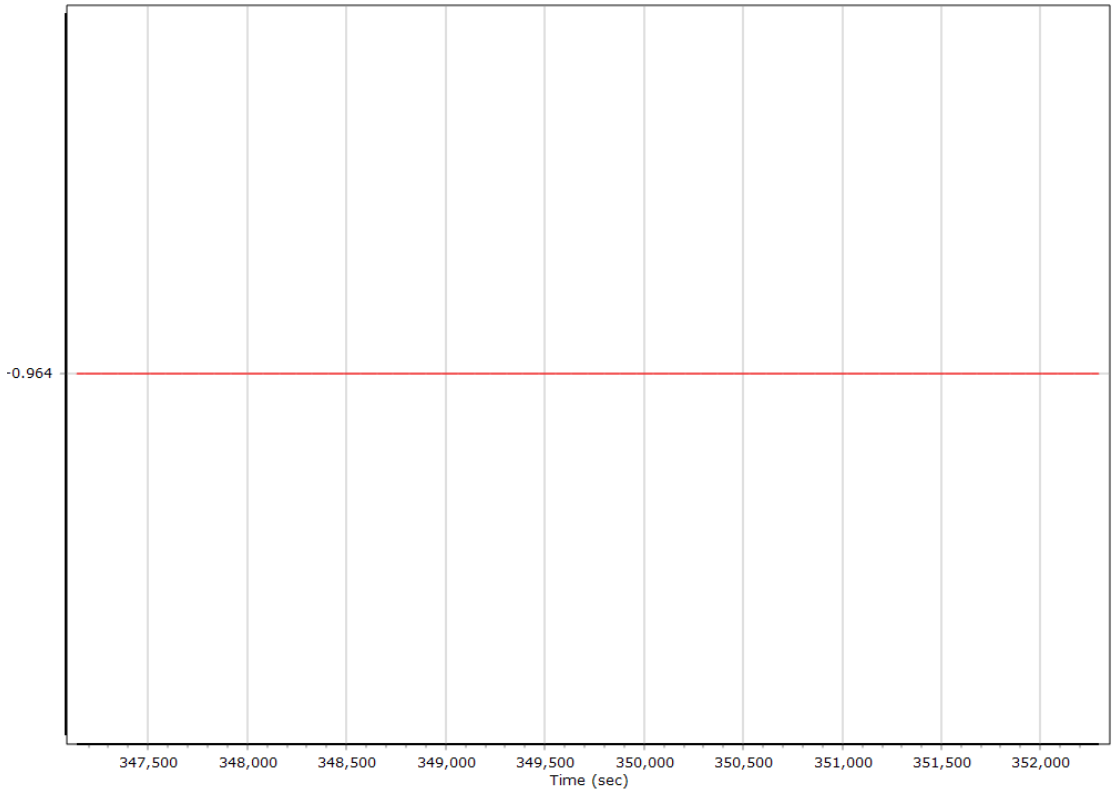
X Reference-Primary GNSS Lever Arm (m)



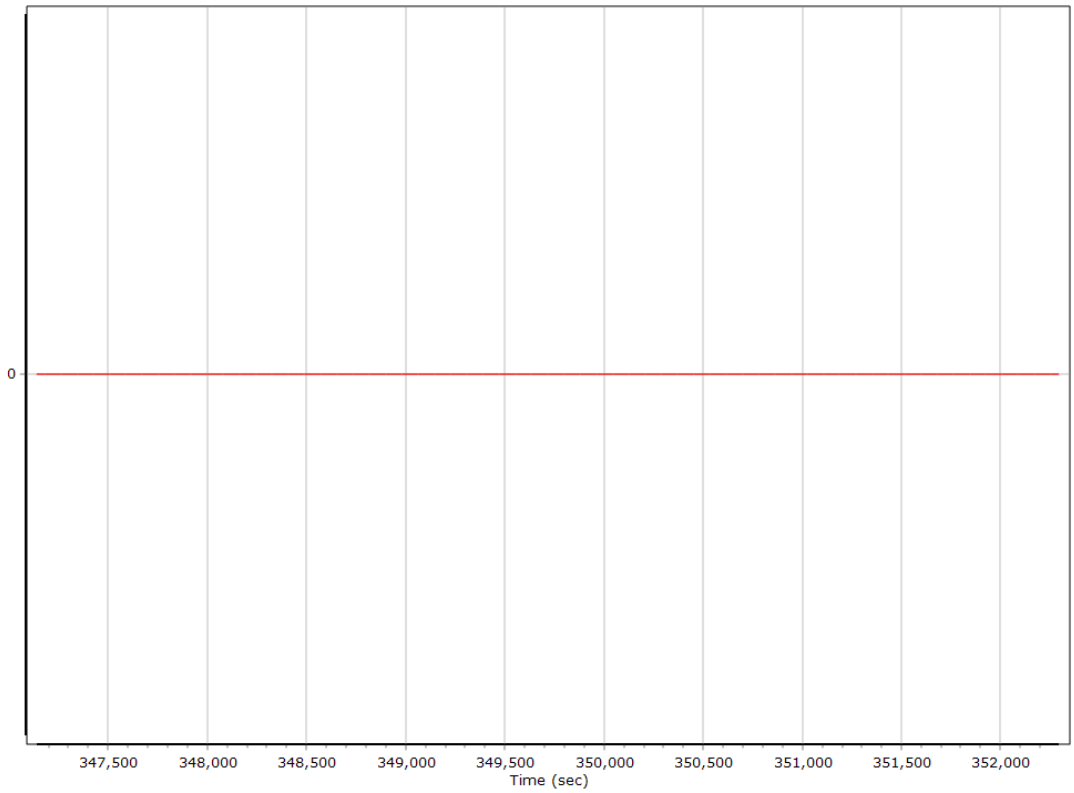
Y Reference-Primary GNSS Lever Arm (m)



Z Reference-Primary GNSS Lever Arm (m)



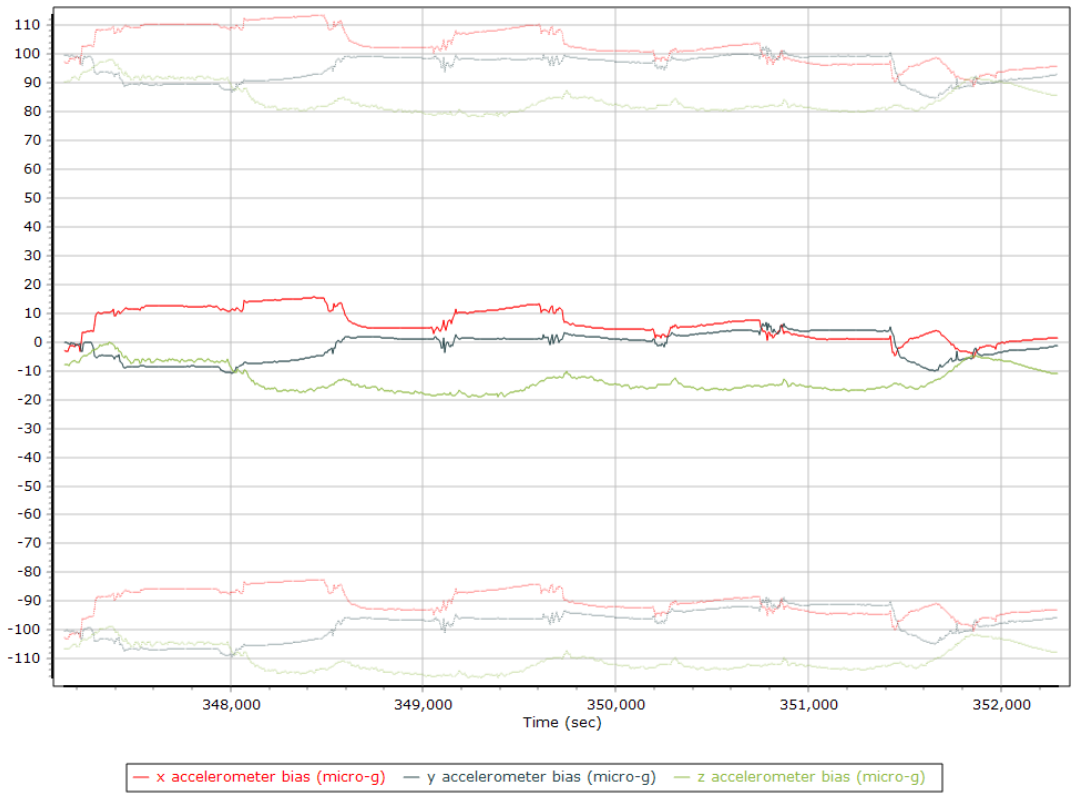
Reference-Primary GNSS Lever Arm Figure of Merit



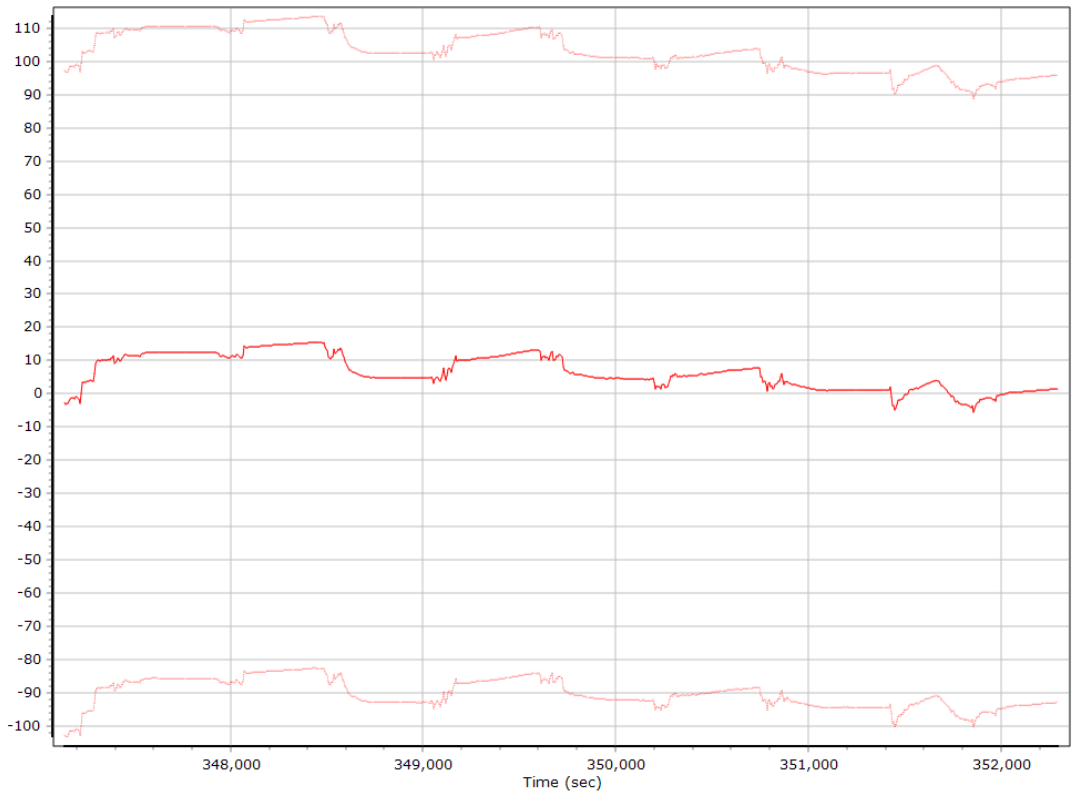
IN-Fusion QC

Forward Processed Estimated Errors, Reference Frame

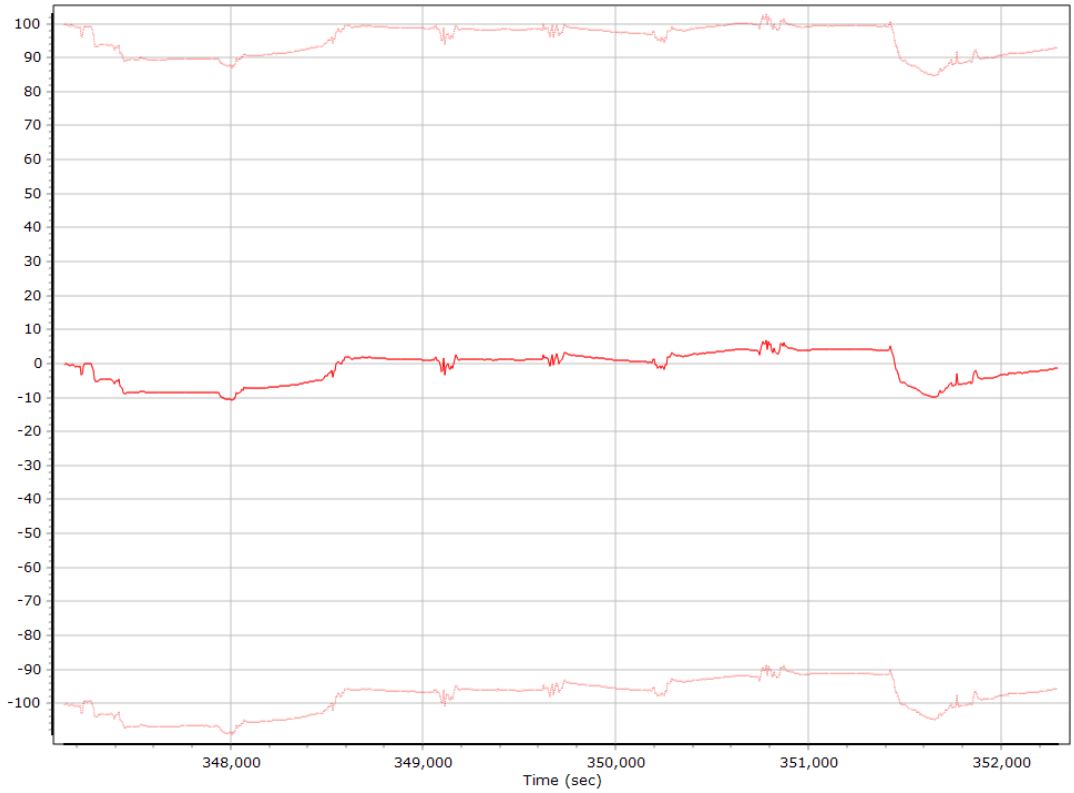
Accelerometer Bias (micro-g)



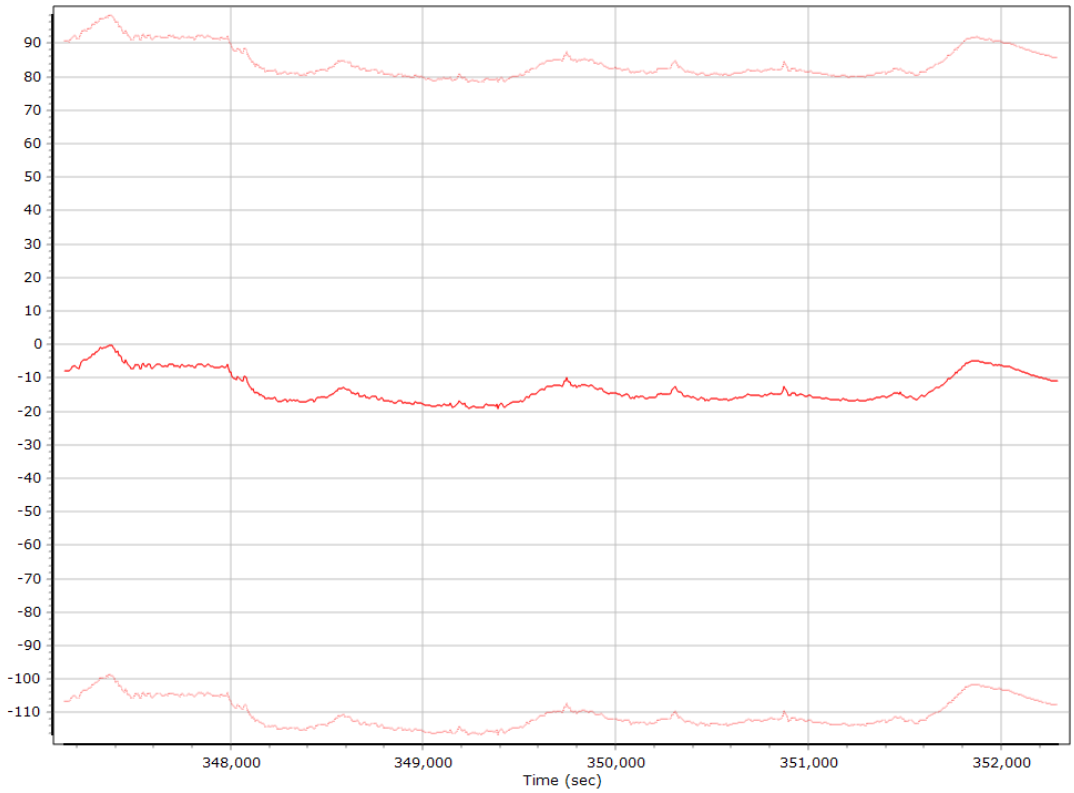
X Accelerometer Bias (micro-g)



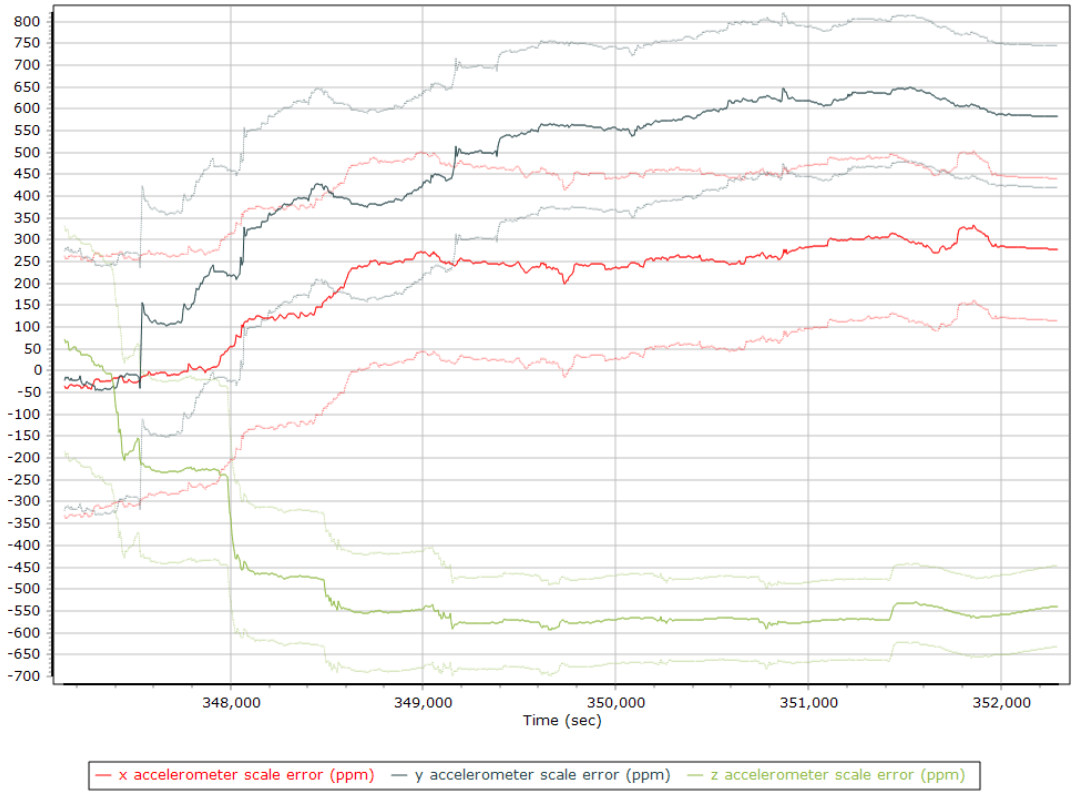
Y Accelerometer Bias (micro-g)



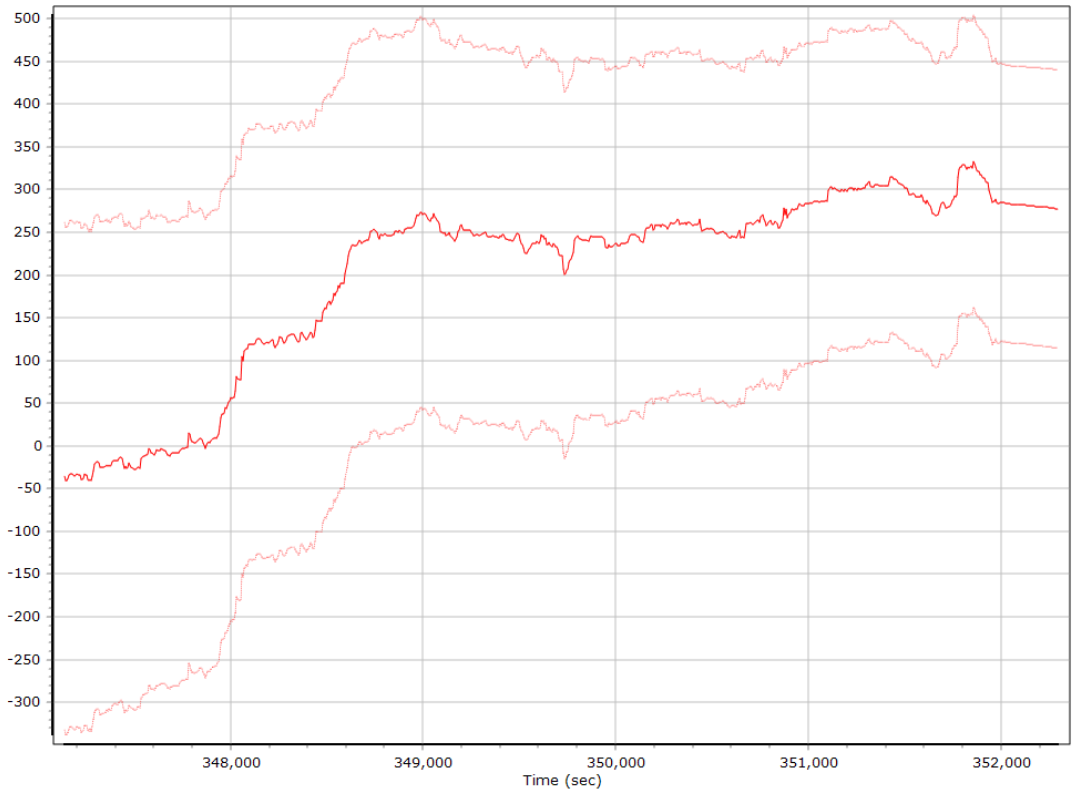
Z Accelerometer Bias (micro-g)



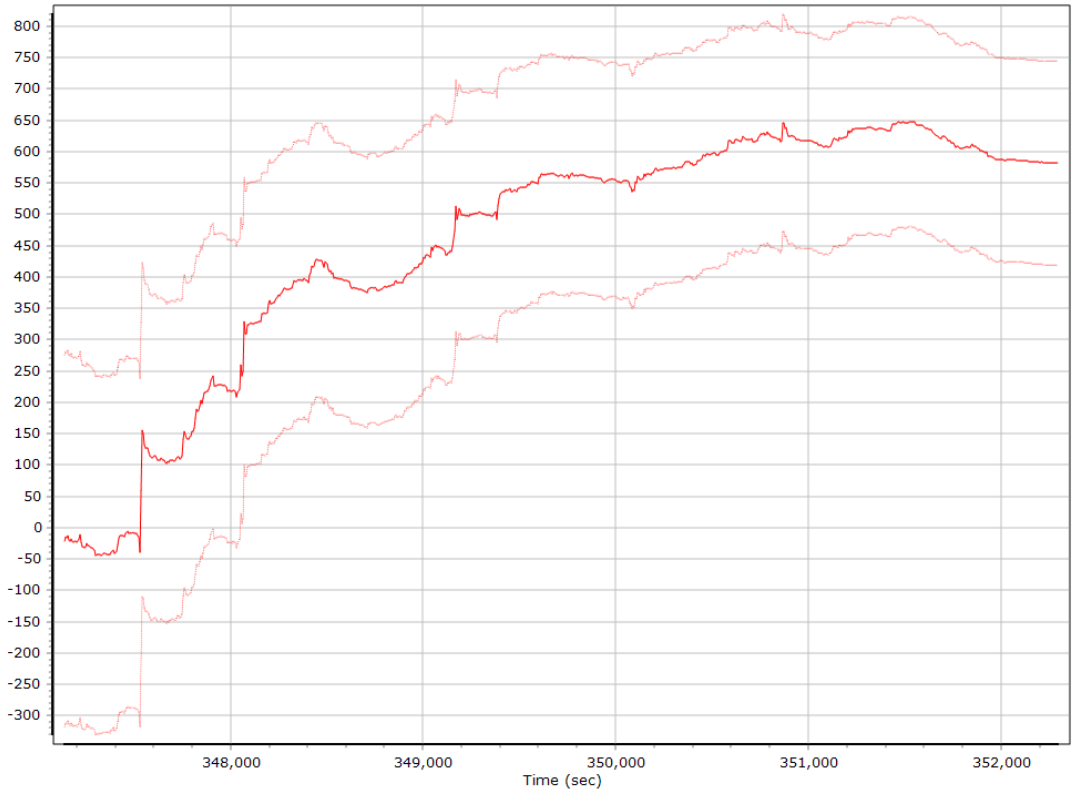
Accelerometer Scale Error (ppm)



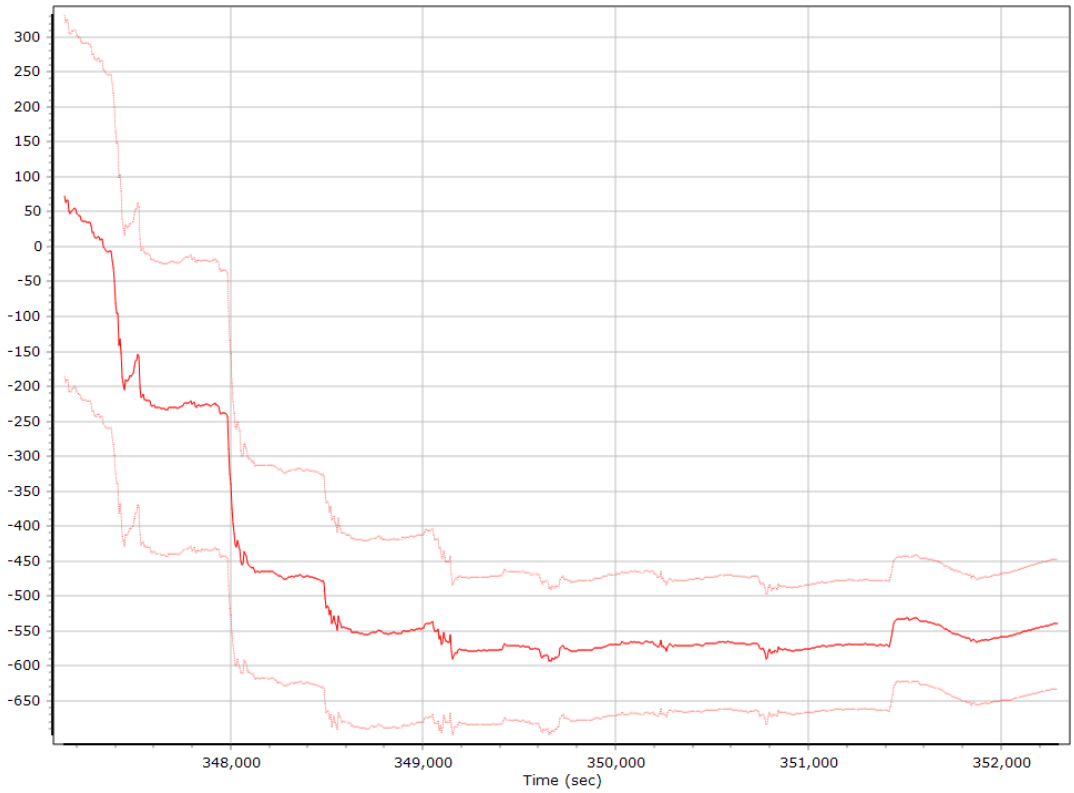
X Accelerometer Scale Error (ppm)



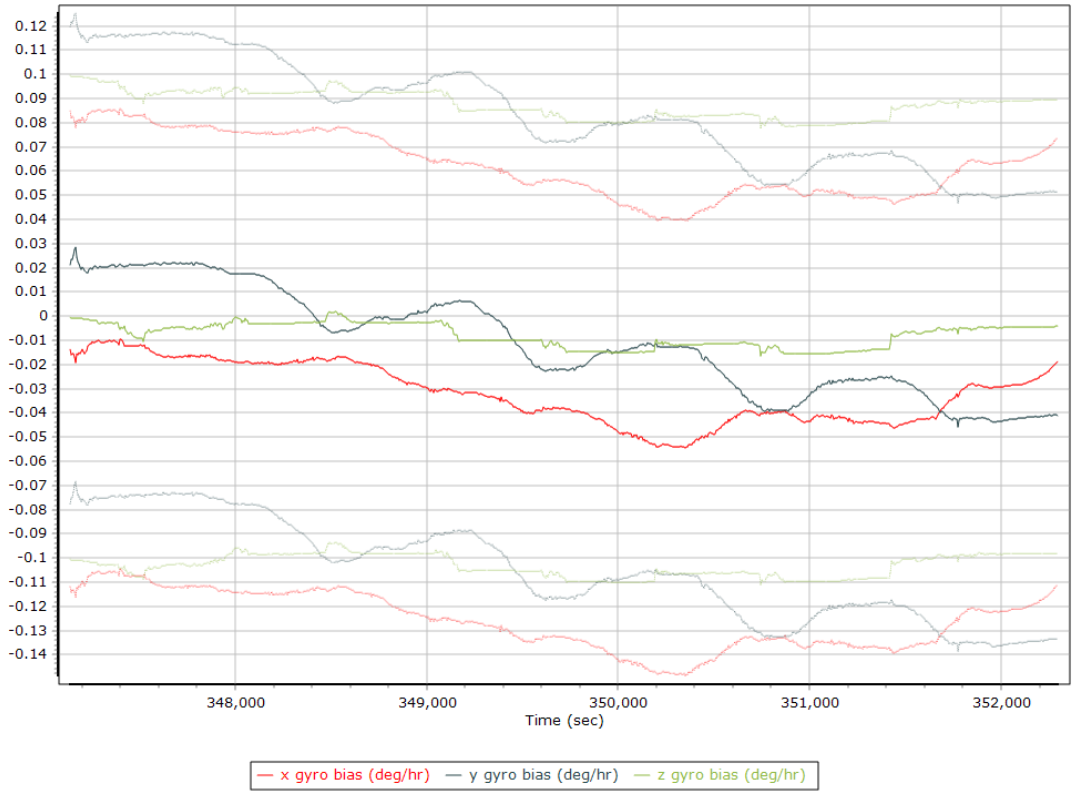
Y Accelerometer Scale Error (ppm)



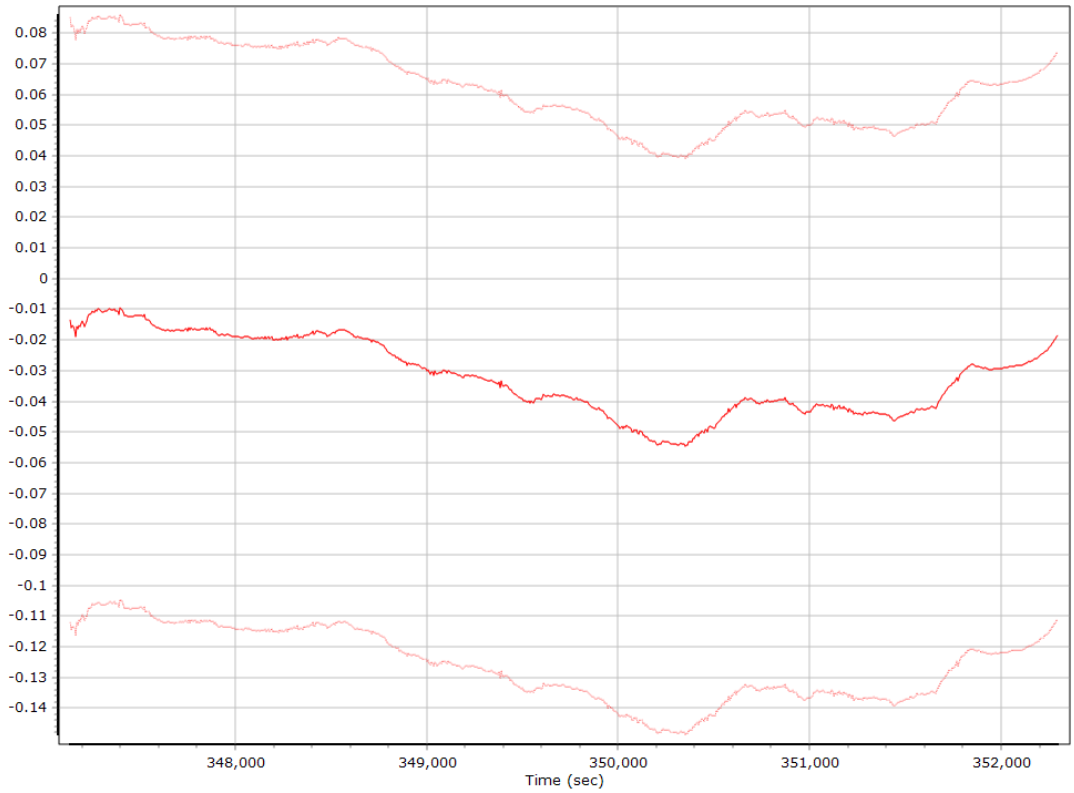
Z Accelerometer Scale Error (ppm)



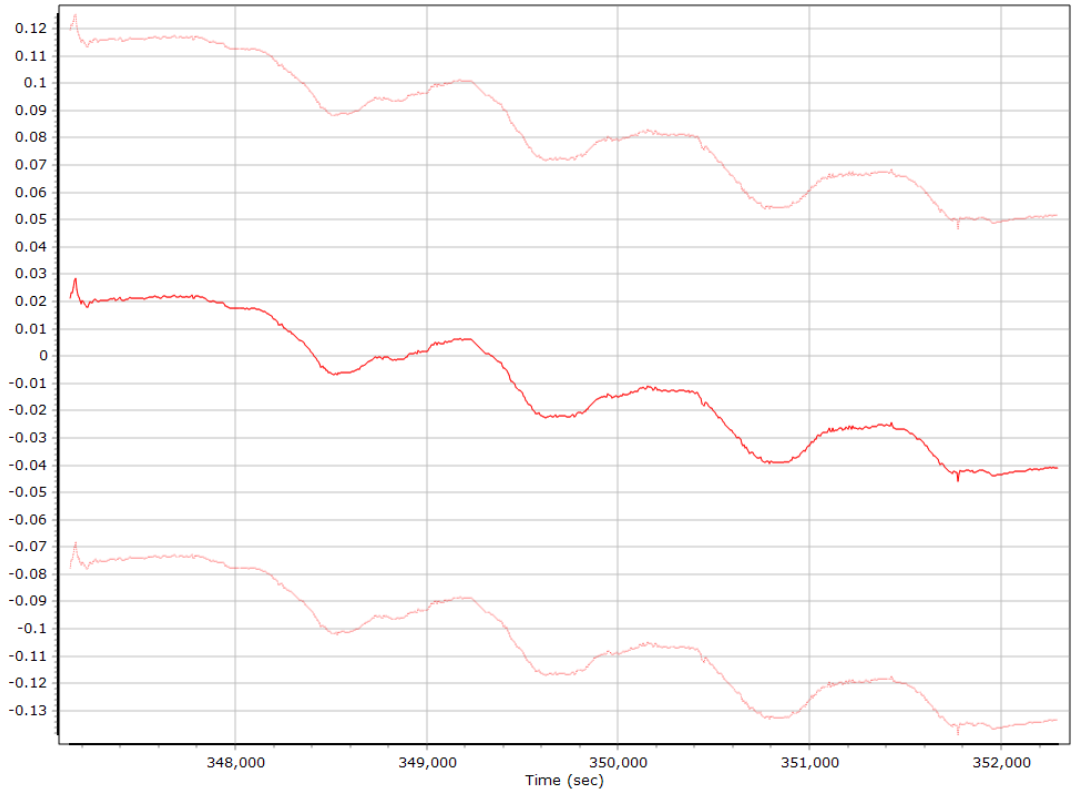
Gyro Bias (deg/h)



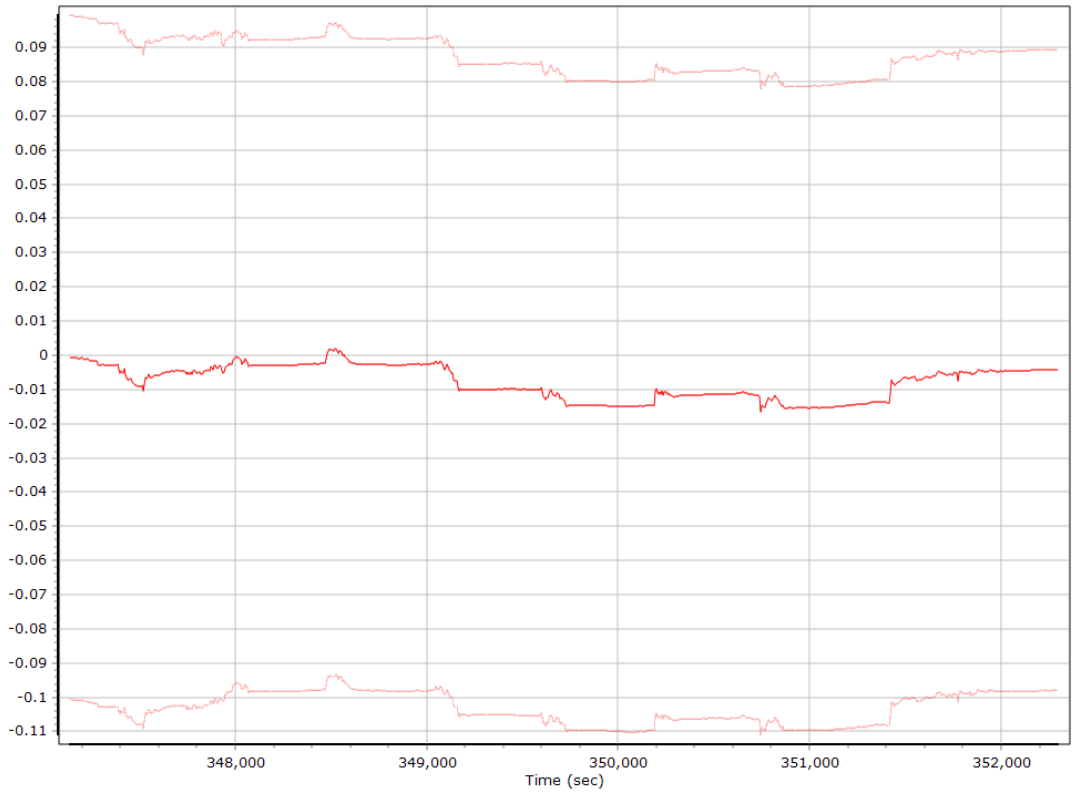
X Gyro Bias (deg/h)



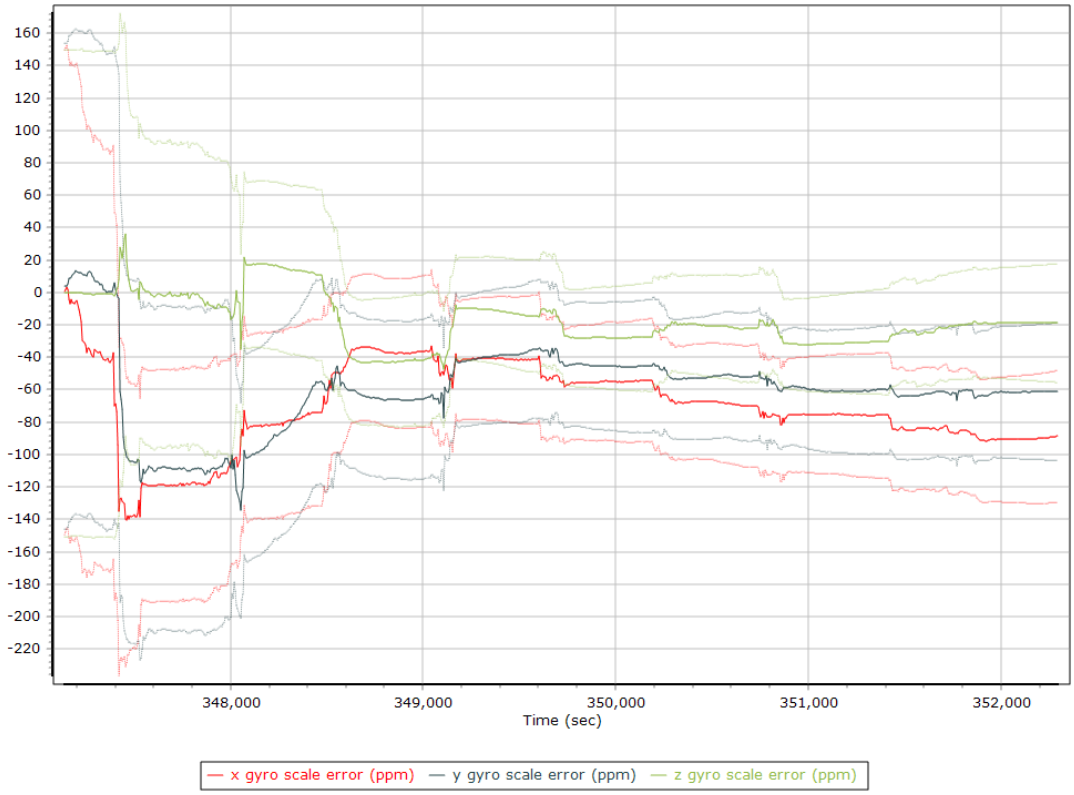
Y Gyro Bias (deg/h)



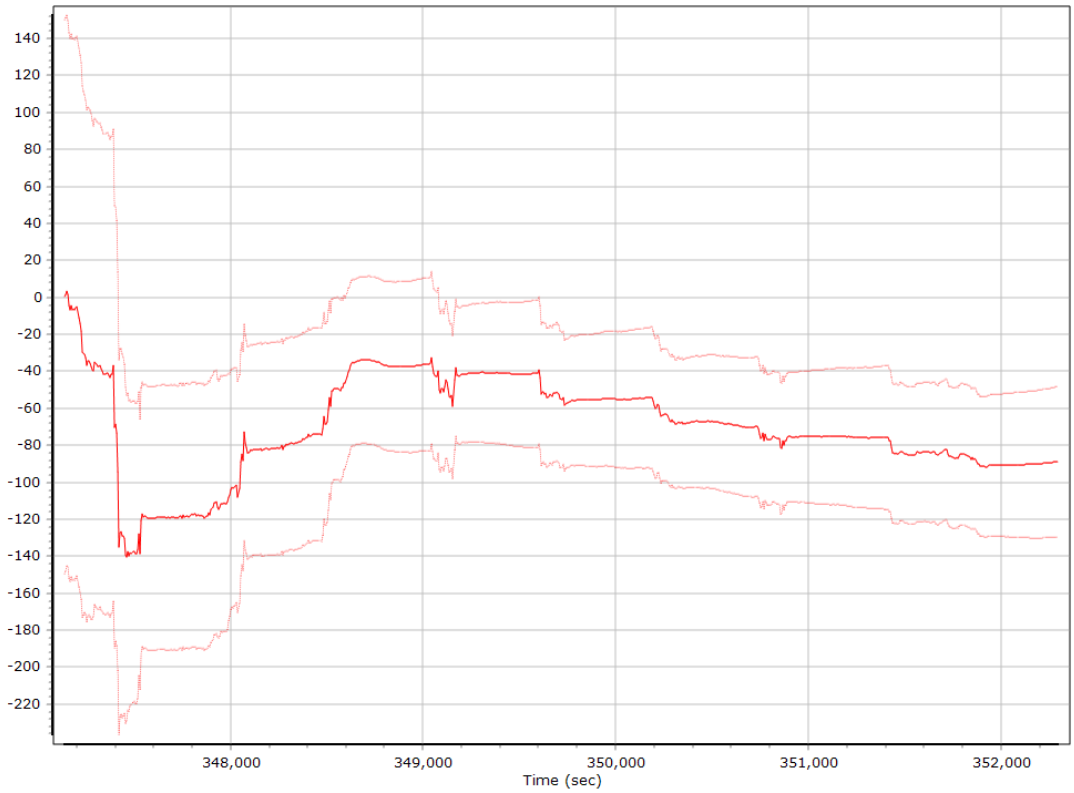
Z Gyro Bias (deg/h)



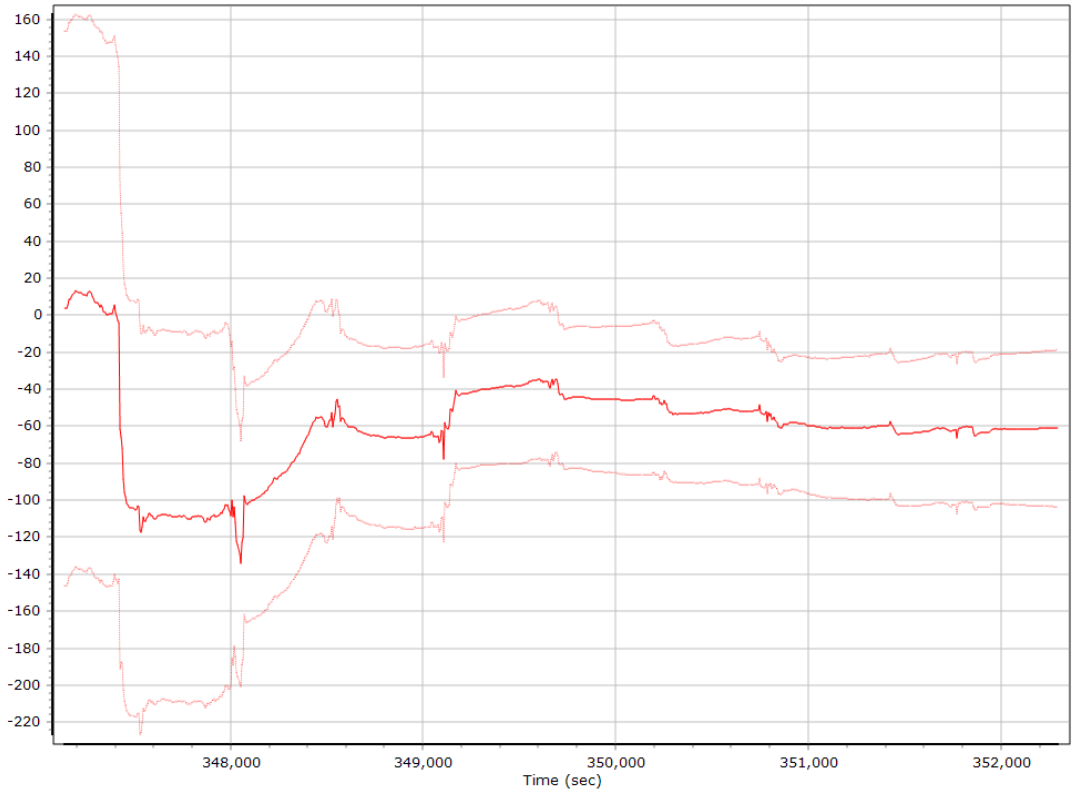
Gyro Scale Error (ppm)



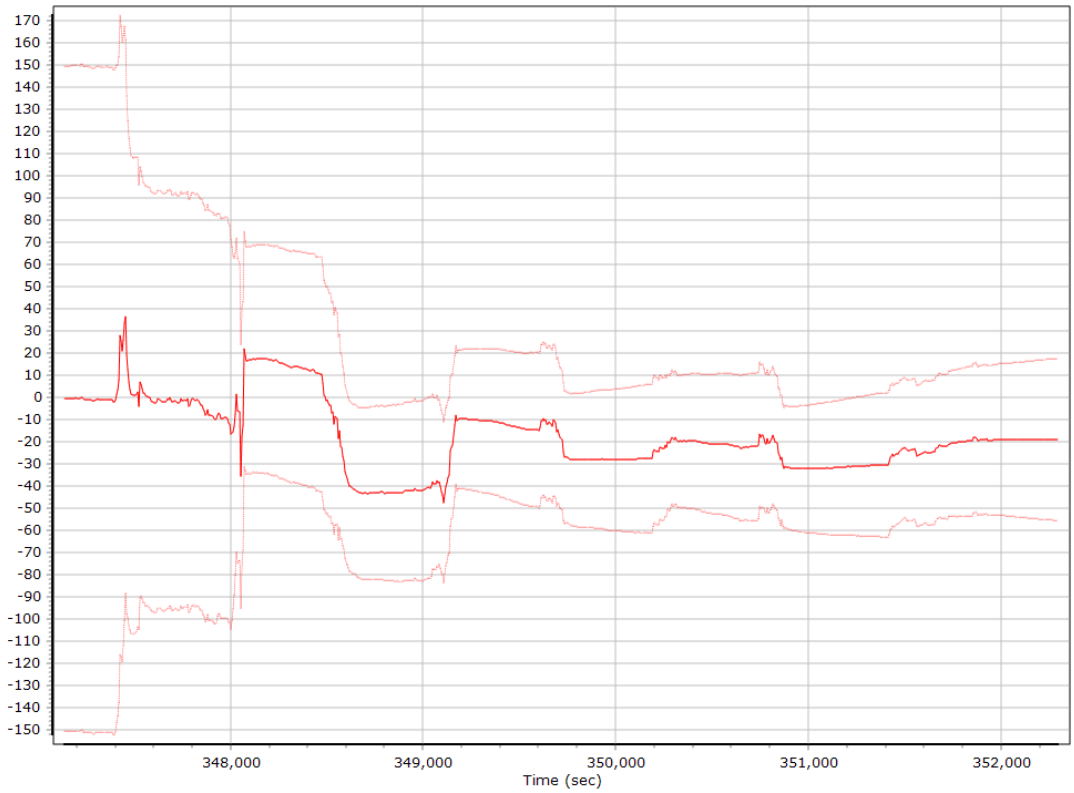
X Gyro Scale Error (ppm)



Y Gyro Scale Error (ppm)

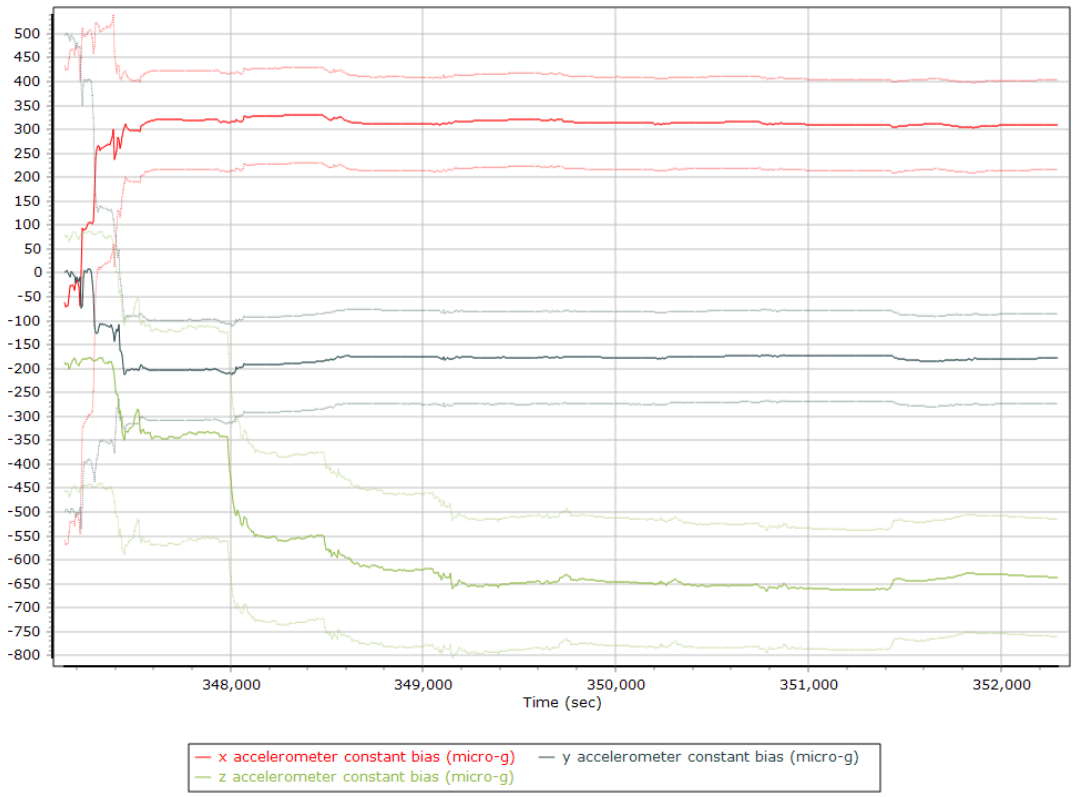


Z Gyro Scale Error (ppm)

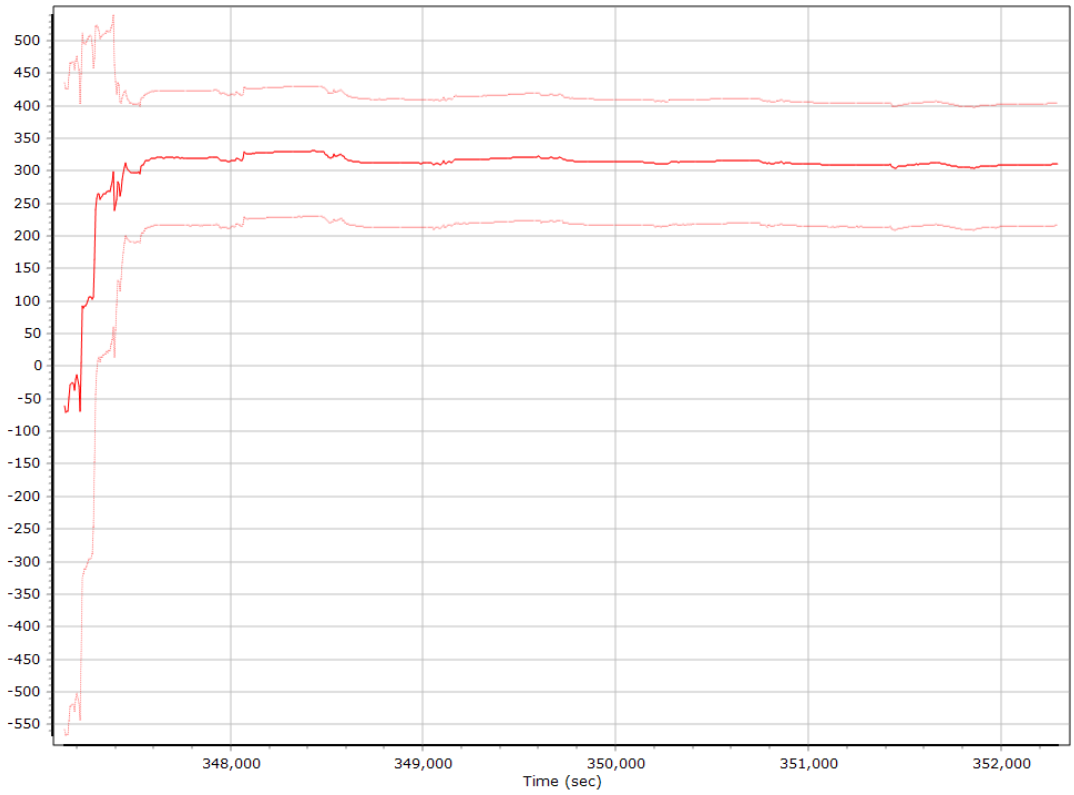


Forward Processed Estimated Constant Errors, Reference Frame

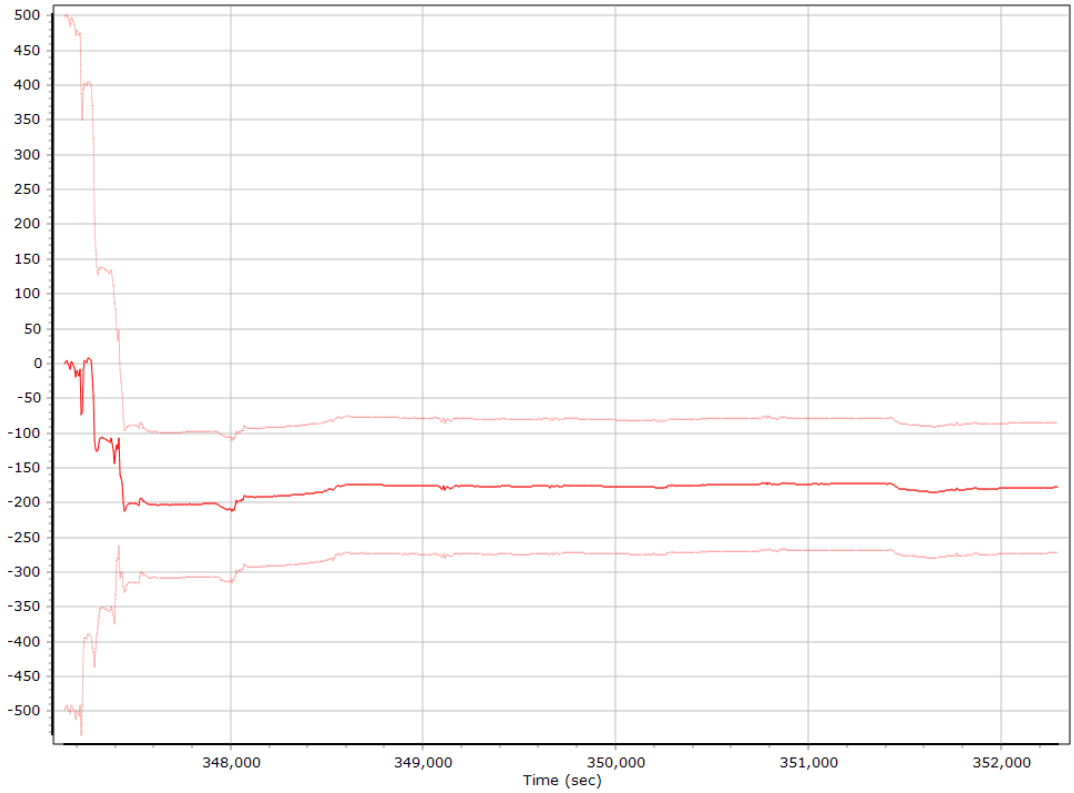
Accelerometer Bias (micro-g)



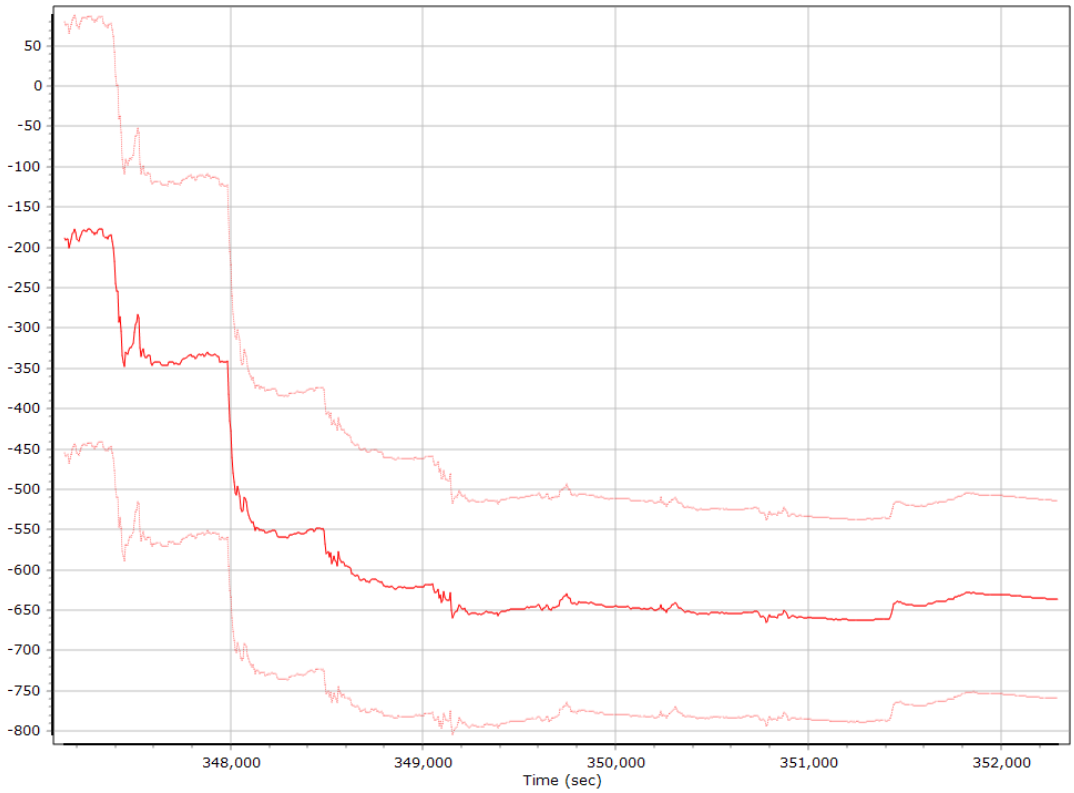
X Accelerometer Bias (micro-g)



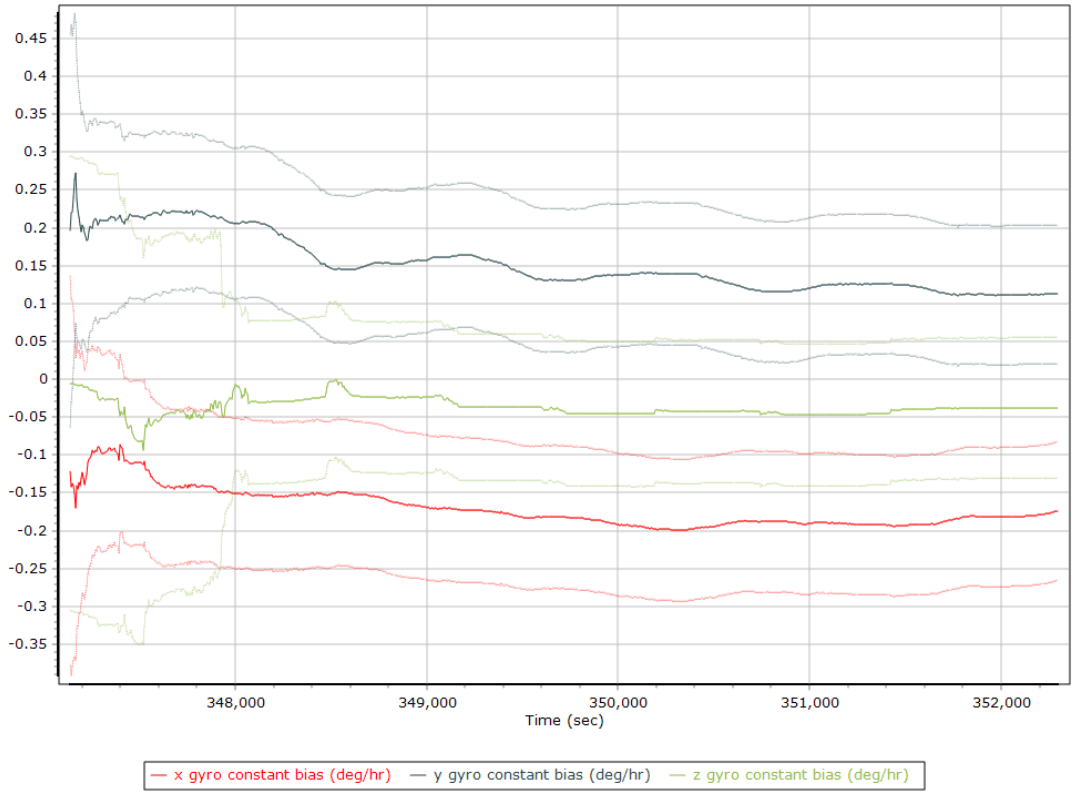
Y Accelerometer Bias (micro-g)



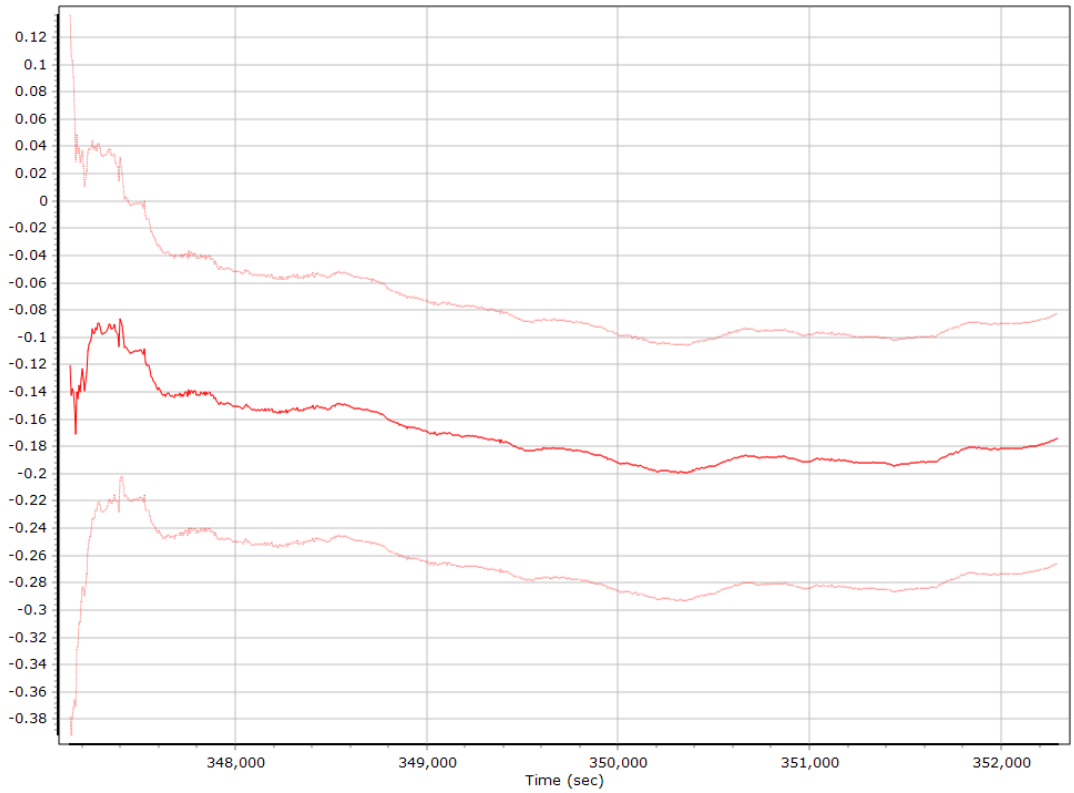
Z Accelerometer Bias (micro-g)



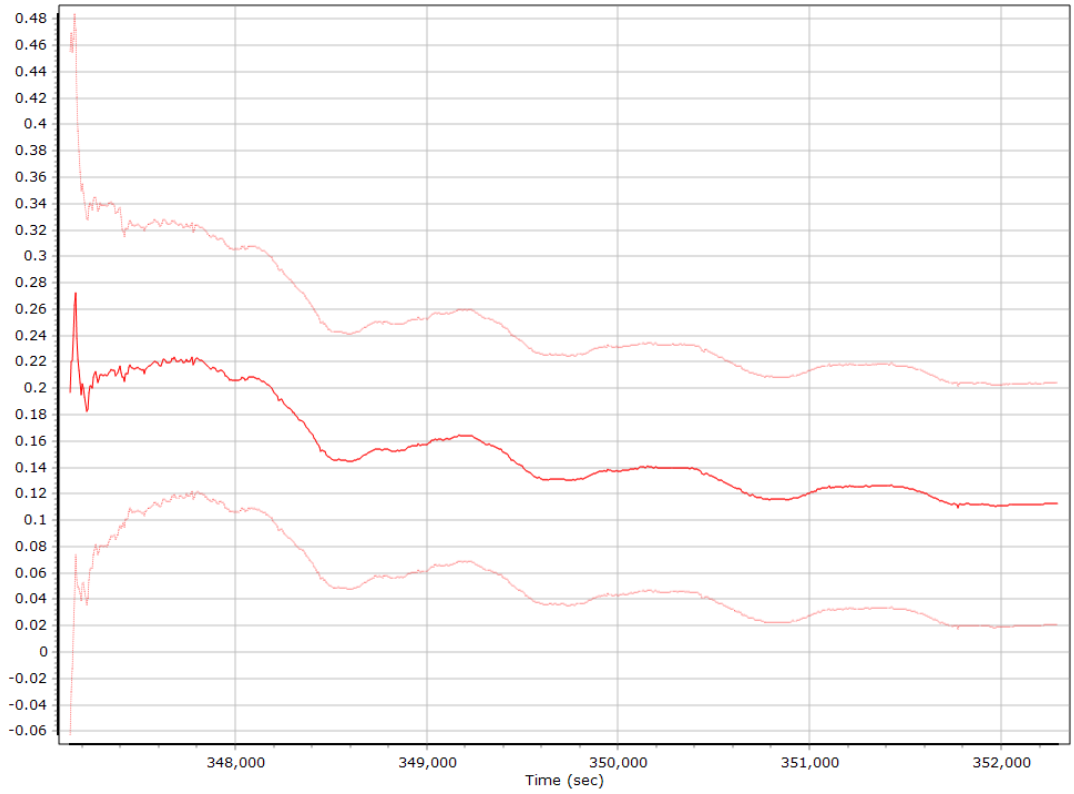
Gyro Bias (deg/h)



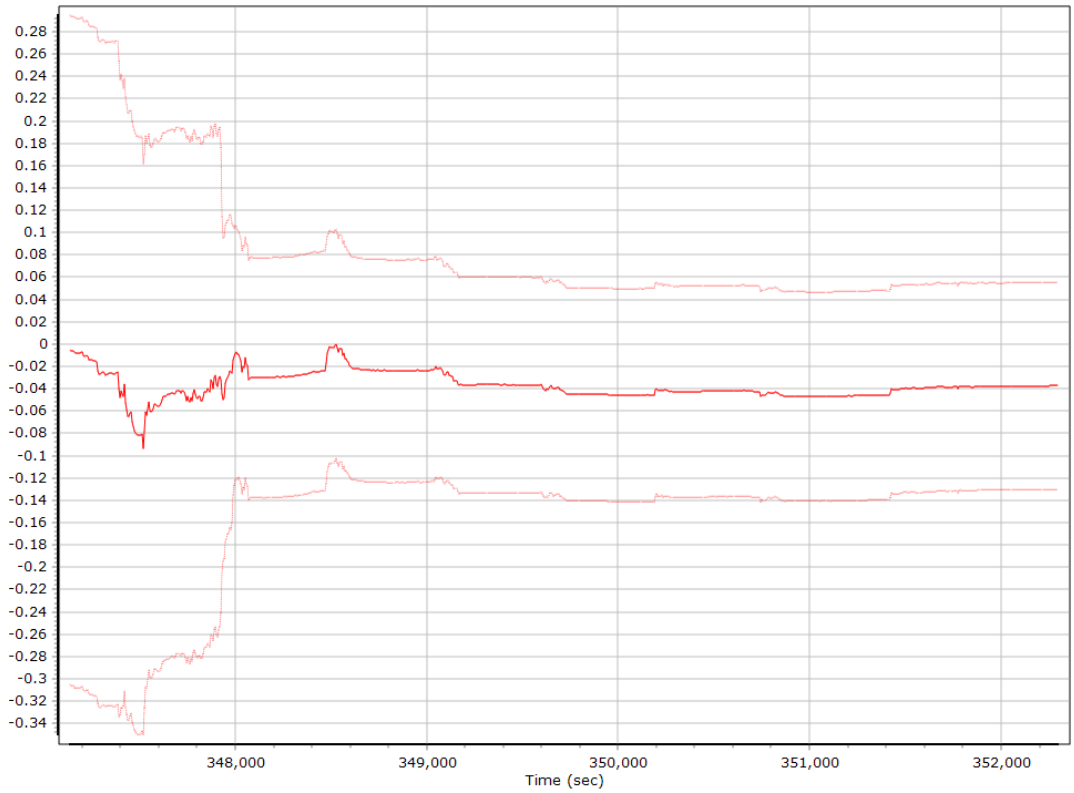
X Gyro Bias (deg/h)



Y Gyro Bias (deg/h)

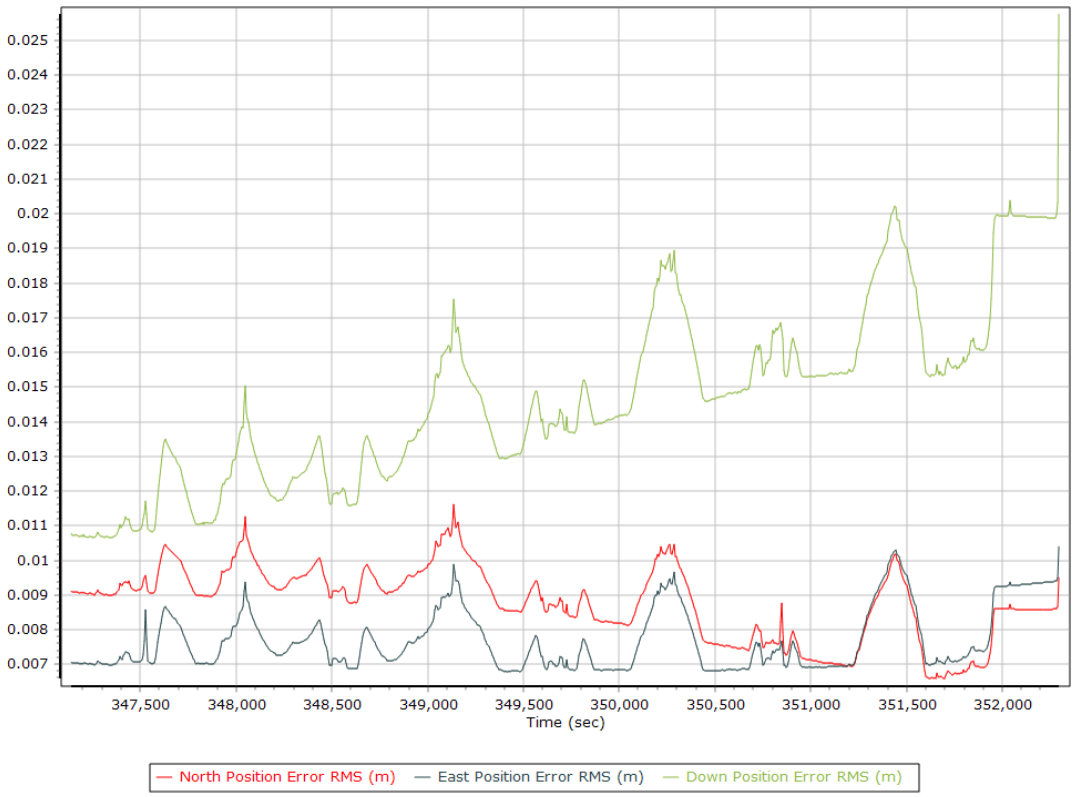


Z Gyro Bias (deg/h)

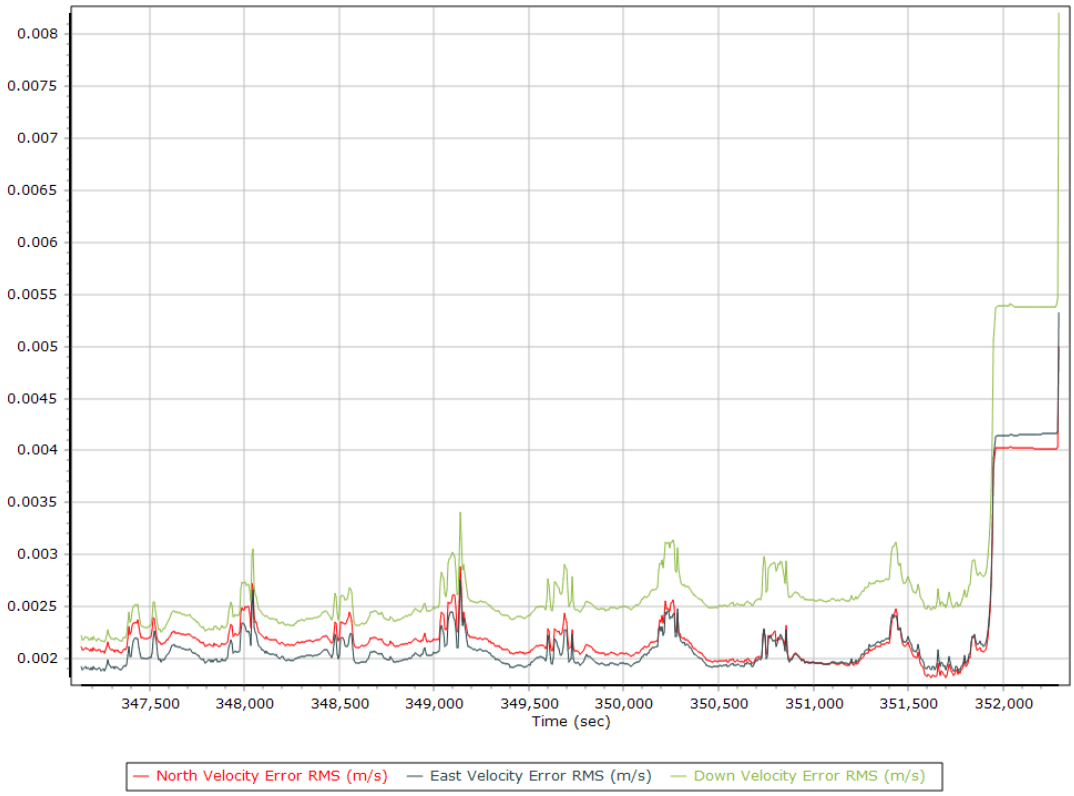


Smoothed Performance Metrics

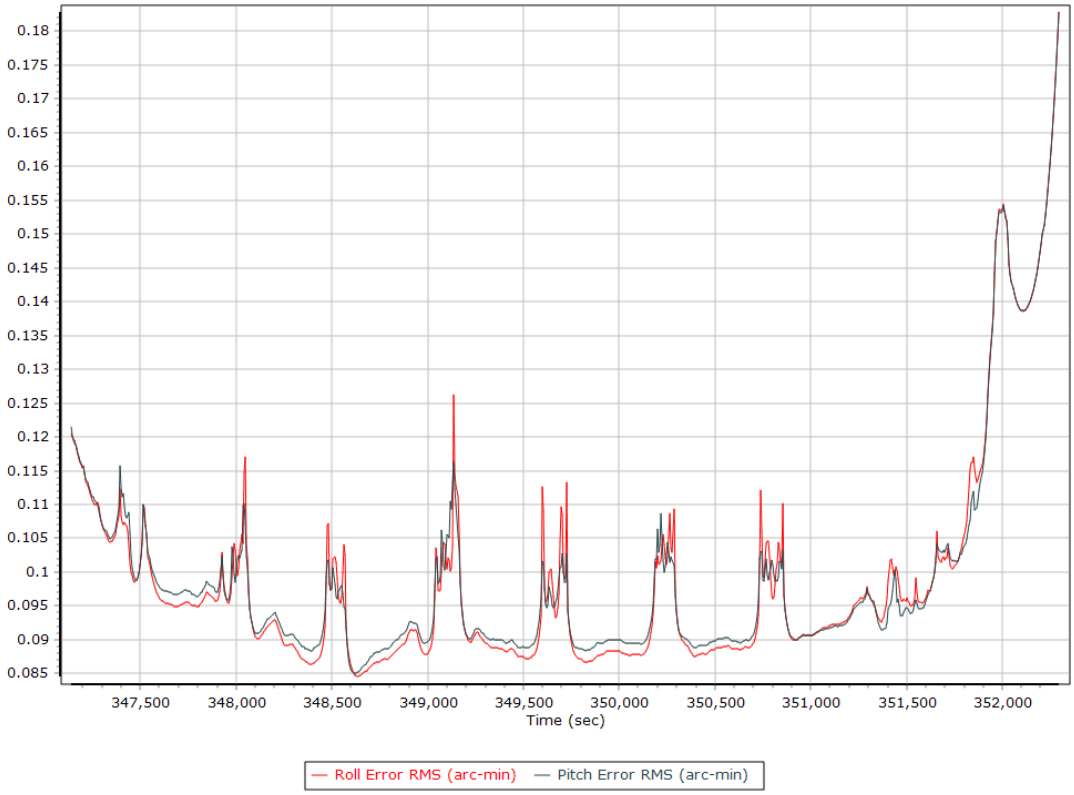
Position Error RMS (m)



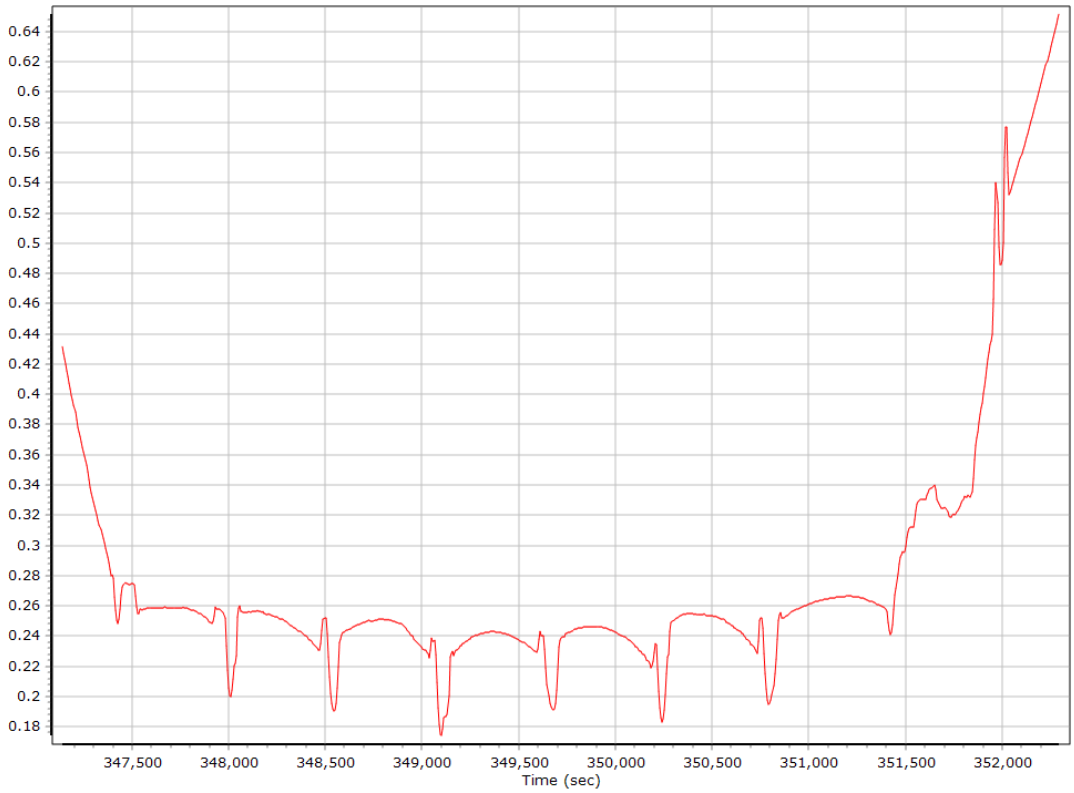
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

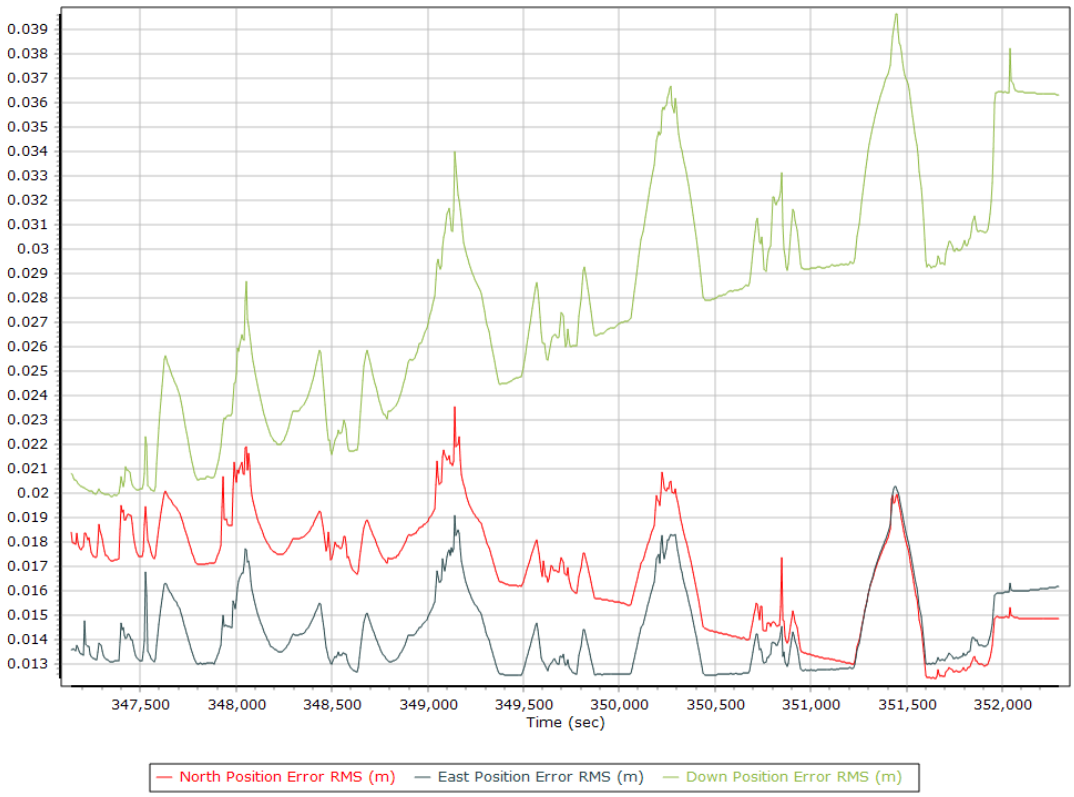


Heading Error RMS (arc-min)

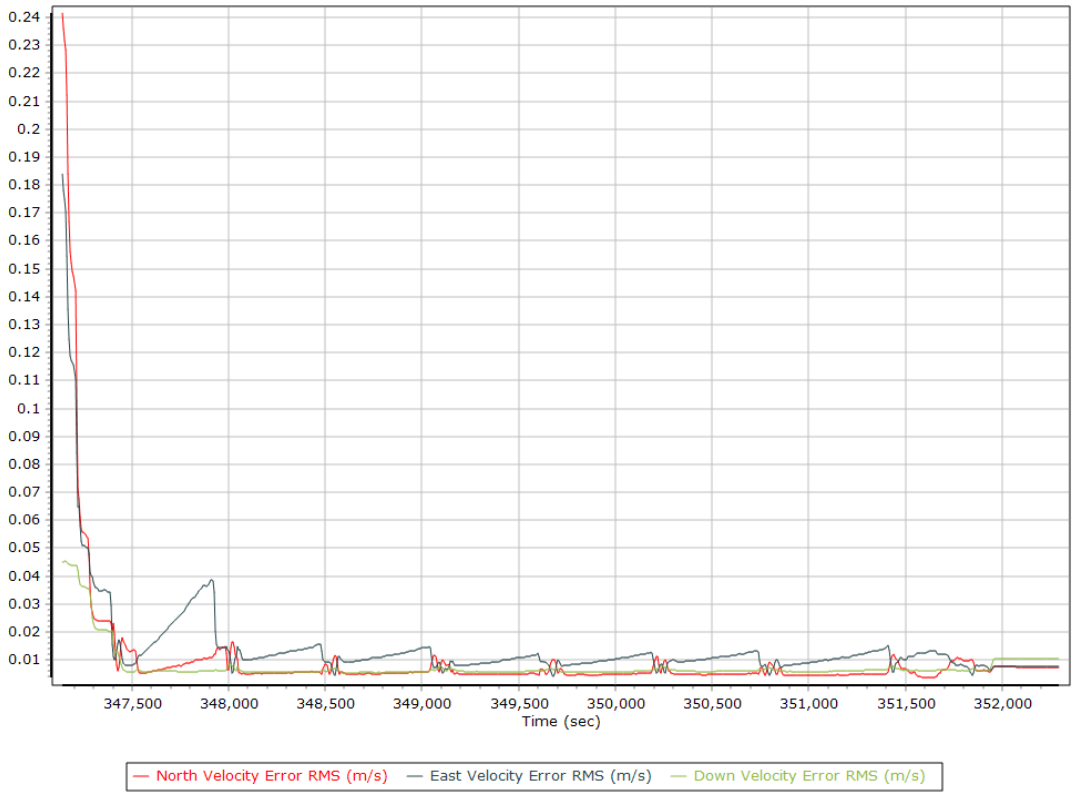


Forward Processed Performance Metrics

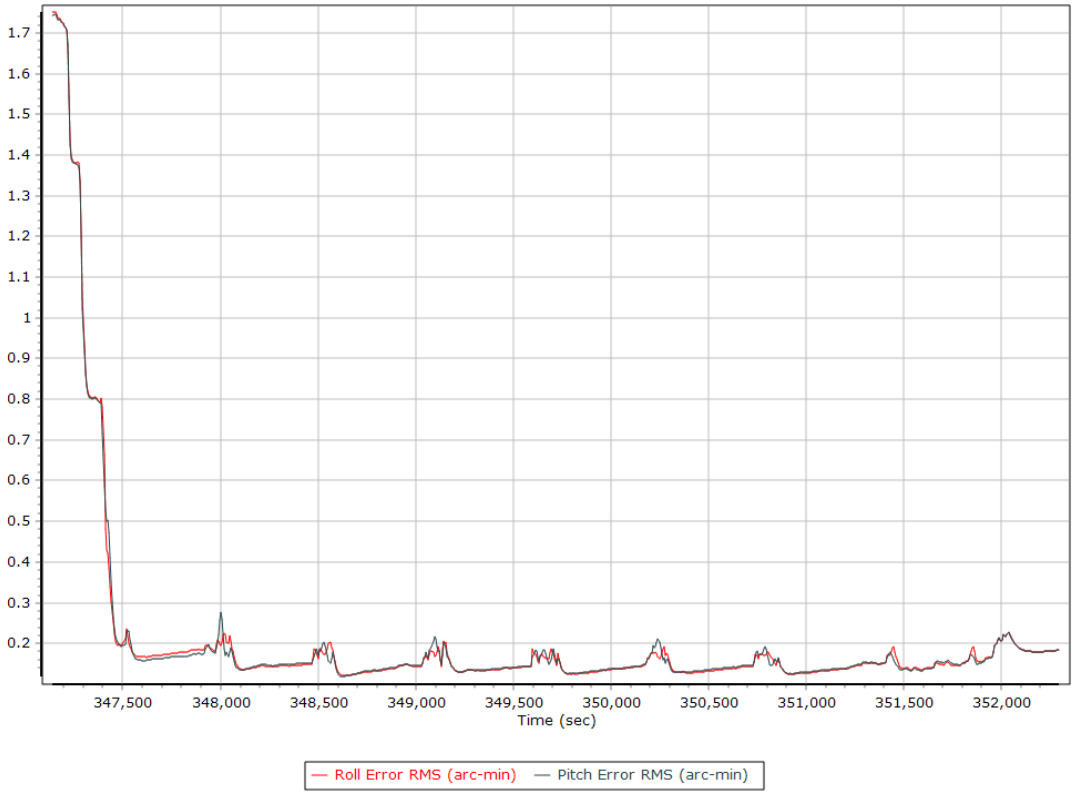
Position Error RMS (m)



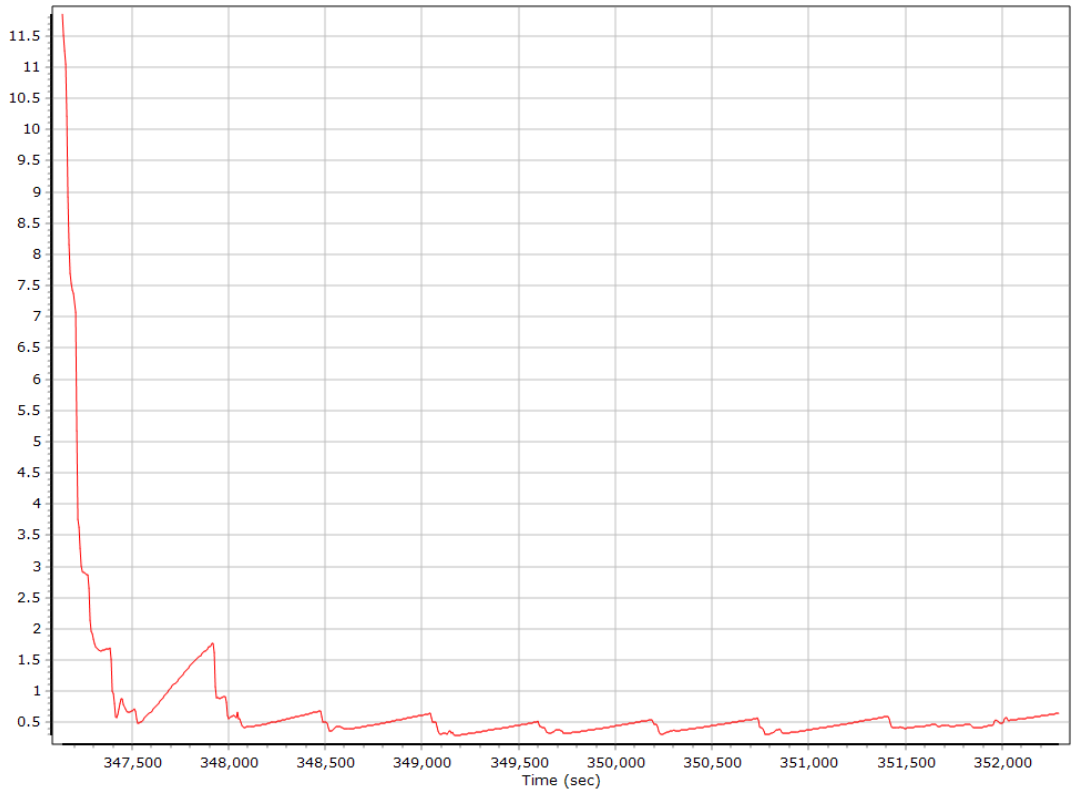
Velocity Error RMS (m/s)



Roll/Pitch Error RMS (arc-min)

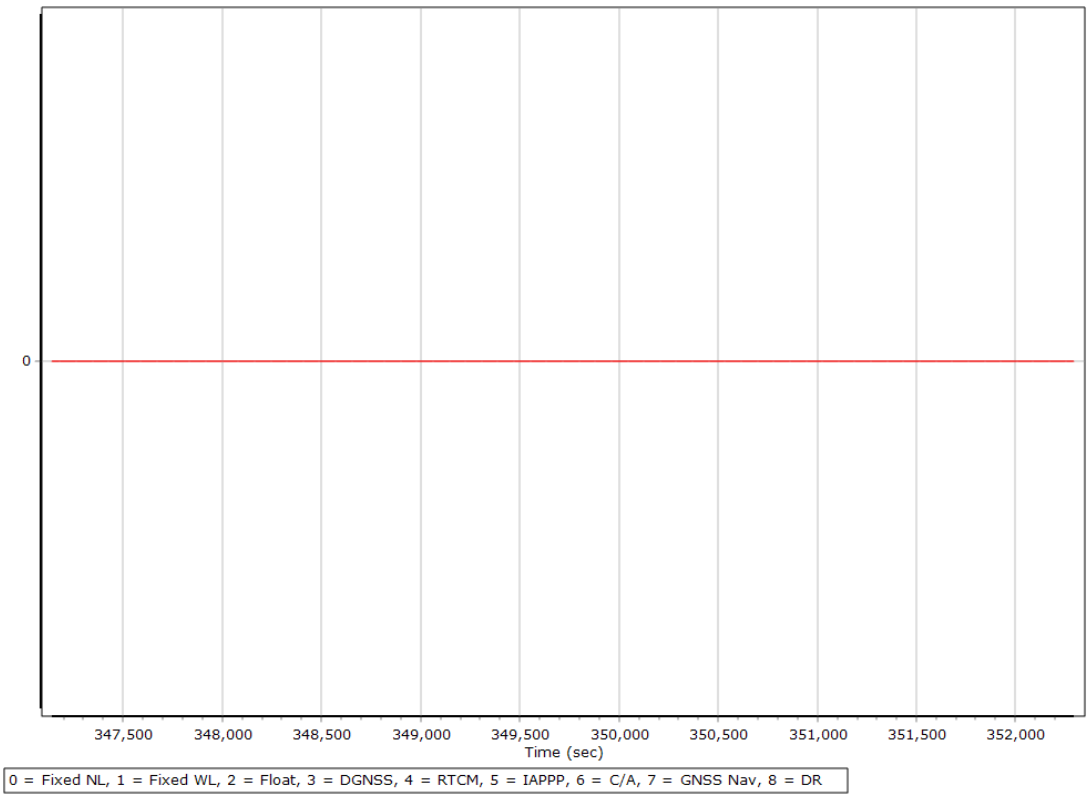


Heading Error RMS (arc-min)

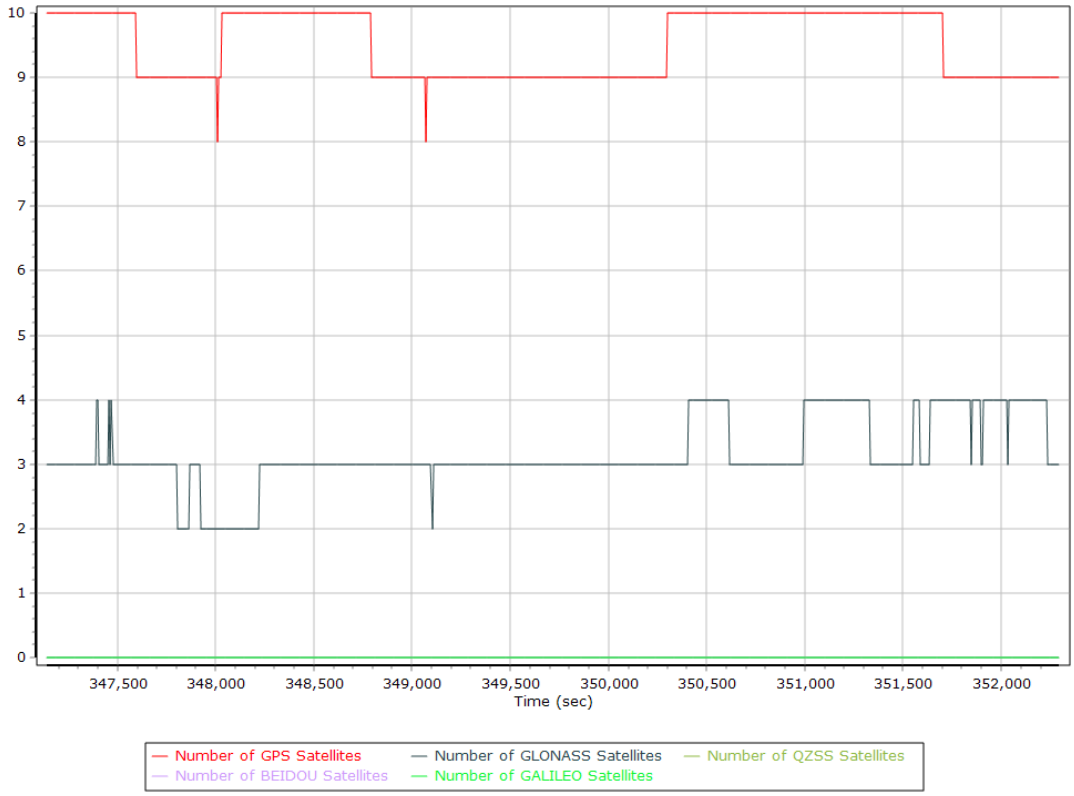


Smoothed Solution Status

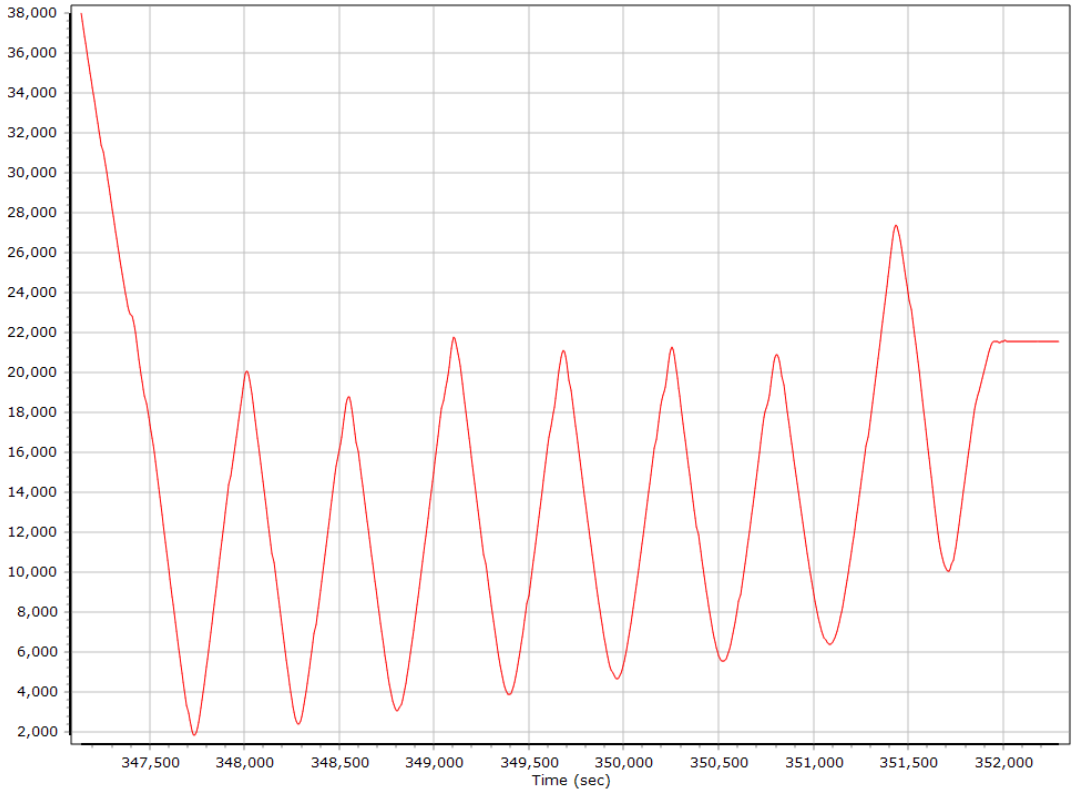
Processing Mode



Number of Satellites

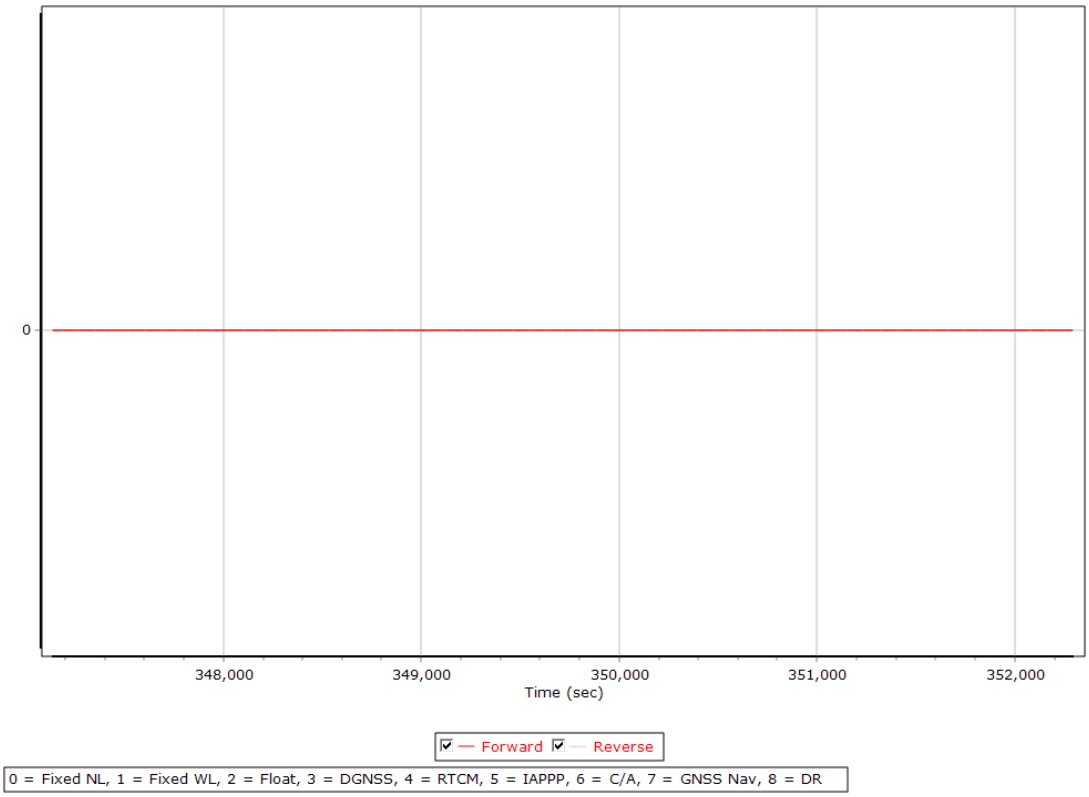


Baseline Length

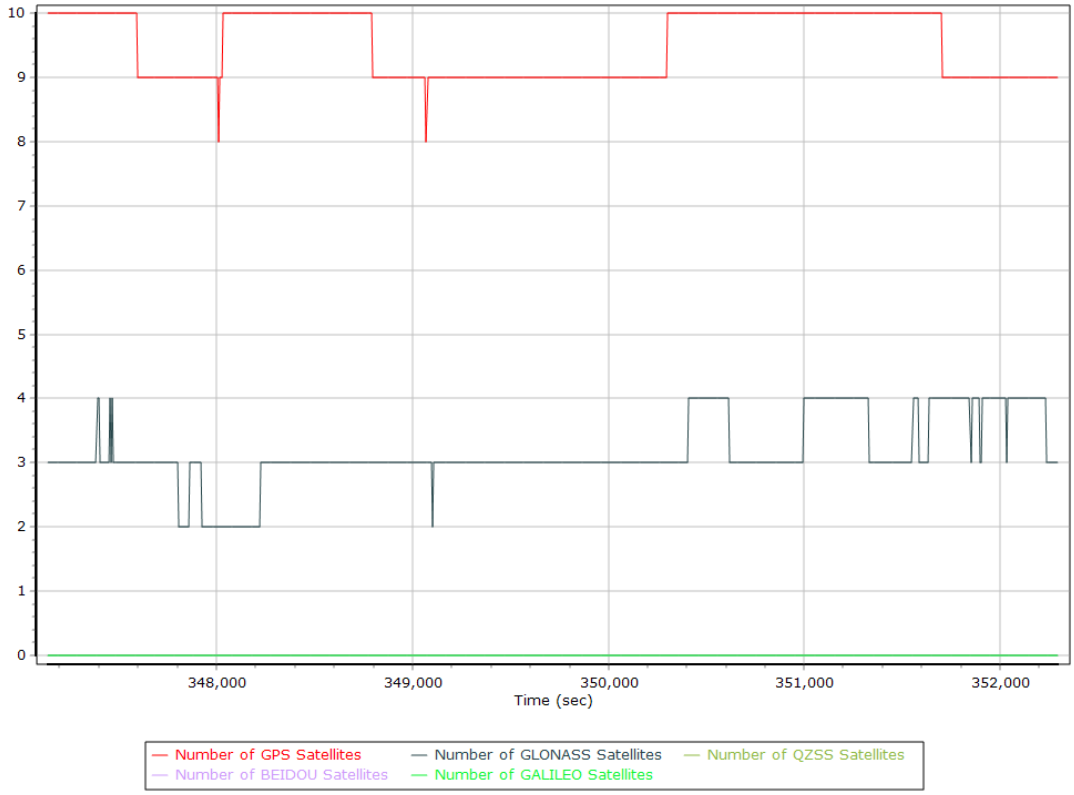


Forward Processed Solution Status

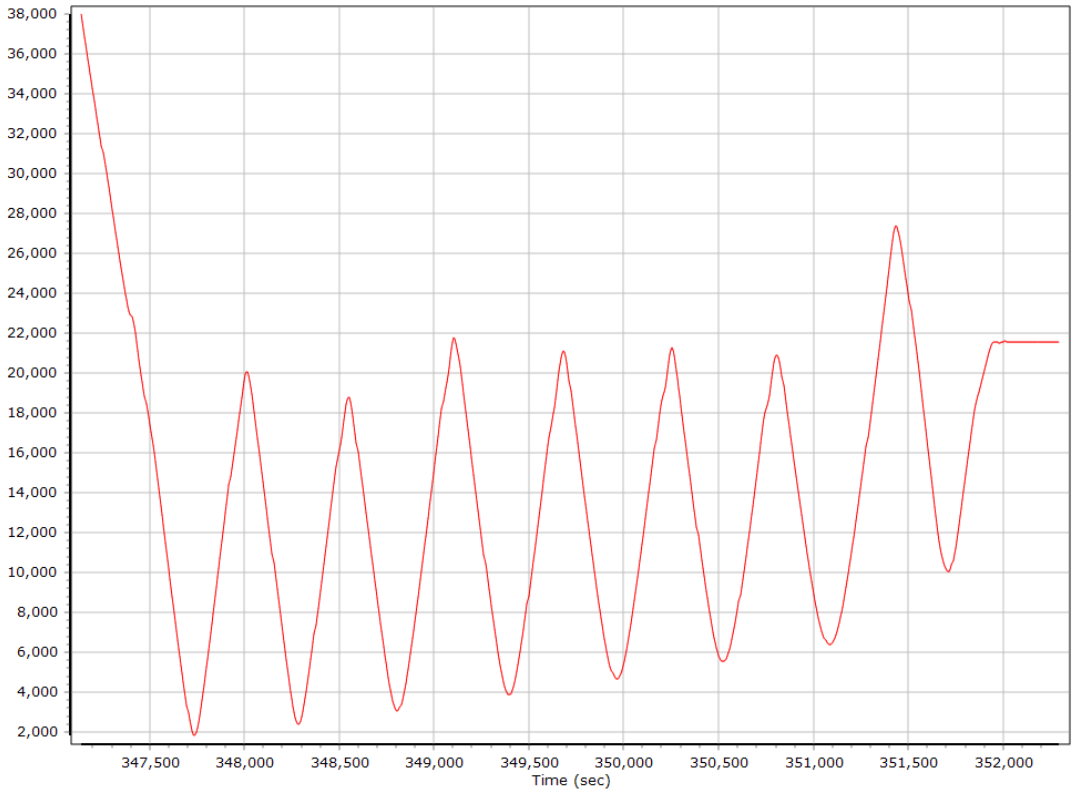
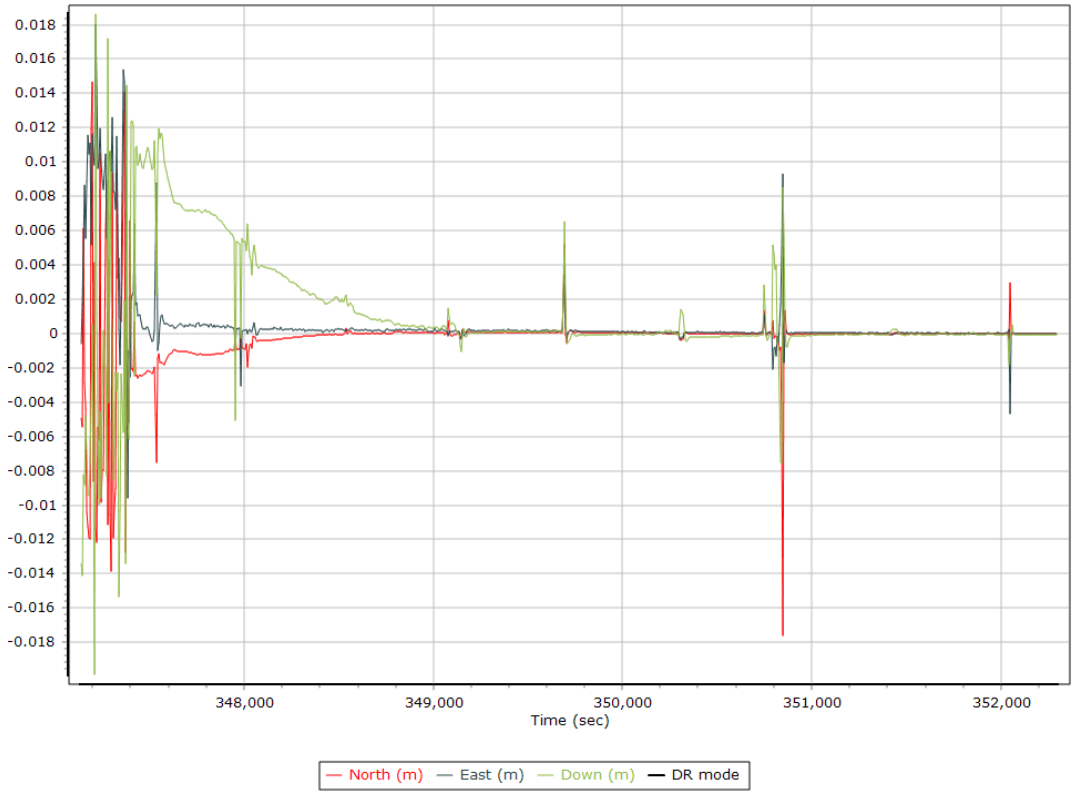
Processing Mode



Number of Satellites



Baseline Length



SBET IAKAR Separation