

USGS_IL_SouthCentral_2_2021_D21 Lidar 2020 Final Report

Report Produced for U.S. Geological Survey

Task Order: 140G0221F069

Report Date: 01/26/2022

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Overview

The primary purpose of this project was to develop a consistent and accurate surface elevation Dataset derived from high-accuracy Light Detection and Ranging (LiDAR) technology for the USGS Illinois South Central project Area. This task order is for a spring 2021 leaf-off lidar survey to be collected over approximately 9,502 square miles in the State of Illinois, including the counties of: Calhoun, Clinton, Jersey, Macon, Moultrie, Shelby, Fayette, Bond, Marion, Effingham, Clay, Richland, Jefferson, Washington, Perry, Jackson and Vermillion, as depicted in the Defined Project Area (DPA) below. This project was planned for the acquisition, processing, and derivative products of LiDAR data to be at QL2+ (ANPS ≤ 0.5 meters) data resolution over the entire region, and include automated classification of vegetation for the entire project area. This project will support the Federal Emergency Management (FEMA) Risk Mapping, Assessment, and Planning (MAP) program, the National Resources Conservation Service (NRCS) high resolution elevation enterprise program, the Illinois State Geological Survey's Height Modernization Program, Land Stewardship (IDALS) Illinois Flood Plain program, and the 3DEP mission.

Acquisition of the IL South Central DPA was collected by ASI and broken out to two subcontractors in the following manner:

Contractor	Number of Flight Days	Square Miles Flown
Aerial Services, Incorporated	5	~1,024.6
Aerial Surveys, International	10	~11362.3
SurvTech Solutions	8	~3093.3

Table 1: Subcontractor Days of Flight and Square Miles Flown

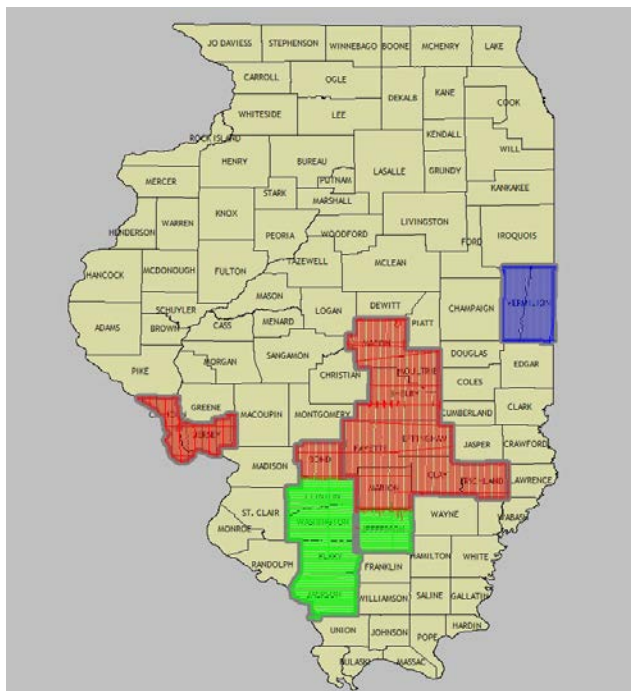


Figure 1: Illinois South Central DPA Subcontractor Breakdown

The LiDAR data for USGS Illinois South Central State Plane West Zone (USGS_IL_SouthCentral_2_2021) was processed and classified according to project specifications. Detailed breaklines, bare earth Digital Elevation Models (DEMs), and Intensity Images were produced for State Plane East Zone. Data was formatted into tiles with each tile covering an area of 2000 US Feet by 2000 US Feet. A total of 22,802 LAS files, 22,823 DEMs, and 22,801 Intensity Images were produced for the project, encompassing the USGS_IL_SouthCentral_2_2021 project area of approximately 3,260 square miles and formatted into 22,283 total tiles. Lidar point cloud LAS files are created for each tile in the tiling schema in which there is reflected photonic energy. No LAS files are created for tiles in which there is total absorption of photons, such as tiles consisting of all water and in which photonic energy is absorbed. LAS files affected by photonic energy absorption are; 2555_7590, 2539_7210, 2539_7230, 2543_7190, 2543_7230, 2545_7230, 2545_7310, 2545_7330, 2547_7310, 2547_7330, 2547_7350, 2547_7370, 2547_7410, 2549_7330, 2549_7390, 2549_7410, 2551_7330, 2551_7350, 2551_7370, 2551_7410, 2555_7370. Intensity Images are created for each tile in the tiling schema in which there is reflected photonic energy. No intensity tiles are created for tiles in which there is total absorption of photons, such as tiles consisting of all water and in which photonic energy is absorbed. Stack emissions are present in the USGS_IL_SouthCentral_2_2021 project area, affecting tiles 2441_5890, 2441_5870, and 2439_5870. These obscured areas are the result of aerosol clouds emitting from a plant and the LiDAR pulses were absorbed by the clouds.

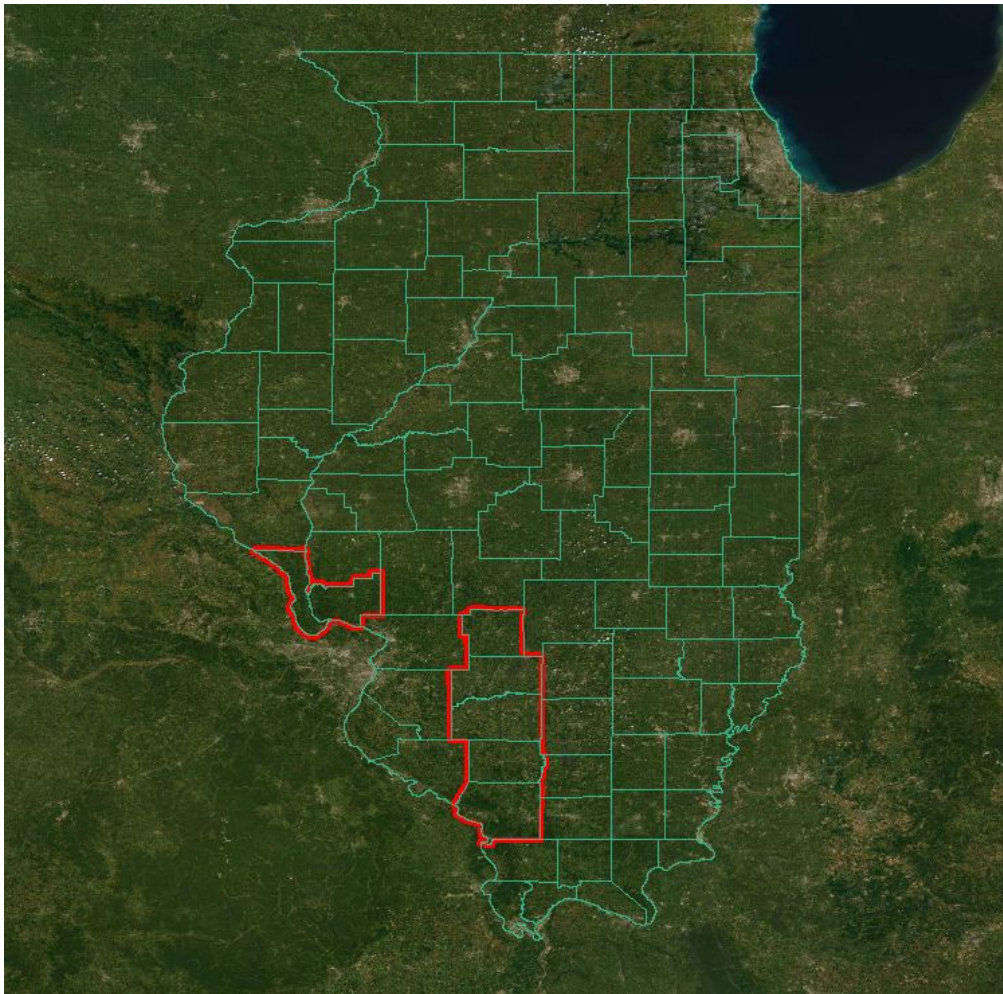


Figure 2: USGS_IL_SouthCentral_2_2021 Delivery Block

Project team

Aerial Services, Inc. (ASI) served as the prime contractor for this project. In addition to project management, ASI was responsible for bare earth cleanup, and hydro collection for 711 square miles of the western most section of the USGS_IL_SouthCentral_2_2021 project area. ASI produced the LiDAR products; Digital Elevation Model (DEM) production, Intensity Image production, and quality assurance for the entire USGS_IL_SouthCentral_2_2021 project area. Subcontractor: Aerial Surveys International, LLC was responsible for LiDAR acquisition and calibration for a total of 1091 square miles of the northern section of the USGS_IL_SouthCentral_2_2021 project area. Subcontractor: SurvTech Solutions was responsible for LiDAR acquisition and calibration for 2169 square miles of the southern section of the USGS_IL_SouthCentral_2_2021 project area. Subcontractor: Ayres Associates manually performed bare earth cleanup, and collected hydro on the remaining 2549 square mile area of the USGS_IL_SouthCentral_2_2021 project area. All follow-up processing was completed by the prime contractor.

Prairie Engineers completed ground surveying for the project and delivered surveyed checkpoints. Prairie Engineers was to acquire surveyed checkpoints for the project to use in independent testing of the vertical accuracy of the LiDAR-derived surface model. Please see SURVEY REPORT to view the separate Survey Report that was provided for this portion of the project.

Survey area

The project area addressed by this report falls within Illinois State Plane West Zone, consists of 7 Illinois counties; Calhoun, Clinton, Jersey, Bond, Washington, Perry, and Jackson.

Date of survey

LiDAR acquisition for USGS_IL_SouthCentral_2_2021 was conducted between the dates of March 7, 2021 to April 12, 2021.

Coordinate reference system

Data produced for the project was delivered in the following reference system.

Horizontal Datum: The horizontal datum for the project is North American Datum of 1983 with the 2011 Adjustment (NAD 83 (2011)).

Vertical Datum: The Vertical datum for the project is North American Vertical Datum of 1988 (NAVD88).

Coordinate System: Illinois State Plane (NAD 83), West Zone.

Units: Horizontal units are in US Survey Feet, Vertical units are in US Survey Feet.

Geoid Model: Geoid18

Lidar vertical accuracy

For the for USGS_IL_SouthCentral_2_2021 project area, the tested RMSEz of the classified LiDAR data for checkpoints in non-vegetated terrain equaled 0.035 meters compared with the 10 cm specification: The 95% confidence value of NVA of the classified LiDAR data computed using $RMSEz \times 1.96$ and was found to equal 0.084 meters compared with the 0.196 meter specification.

For the USGS_IL_SouthCentral_2_2021 project area, the tested VVA of the classified LiDAR data computed using the 95th percentile was equal to 0.172 4 meters, compared with the 0.294 meter specification.

This project must meet Non-vegetated Vertical Accuracy (NVA) ≤ 0.0196 meters (19.6 cm) at the 95% confidence level based on $RMSEz \leq 0.100$ meters (10 cm) $\times 1.9600$.

100 % of Totals	# of Points	RMSEz NVA (m)	NVA-Non-vegetated Vertical Accuracy ((RMSEz x 1.9600) m)	Mean (m)	Median (m)	Skew	Std Dev (m)	Min (m)	Max (m)	Kurtosis
NVA	88	0.043	0.084	-0.002	0.002	-0.026	0.043	-0.088	0.110	-0.042

Table 2: Non-vegetated Vertica Accuracy (NVA) results

Additional accuracy information and statistics for the classified LiDAR data, raw swath data, and bare earth DEM data can be found in following sections of this report.

Project deliverables

The deliverables for the project are listed below.

- Classified Point Cloud Data (Tiled)
- Bare Earth Surface (Raster DEM – IMG format)
- Breakline Data (File GDB)
- Intensity Images (8-bit gray scale, tiled, GeoTIFF format)
- Independent Survey Checkpoint Data (File GDB)
- Calibration Points (File GDB)
- Metadata
- Maximum surface height raster
- Swath separation Images
- Project Report (Acquisition, Processing, QC)
- Project Extent (Included in breakline GDB)
- Swaths Extents (File GDB)
- Tile Index (included in breakline GDB)

Project tiling footprint

22,823 tiles, 22,802 LAS files, 22,823 DEM tiles, 22,801 Intensity Image tiles were delivered for the project. Each tile's extent is 2000 US Feet by 2000 US Feet. (See Appendix A for a complete listing of delivered tiles.)

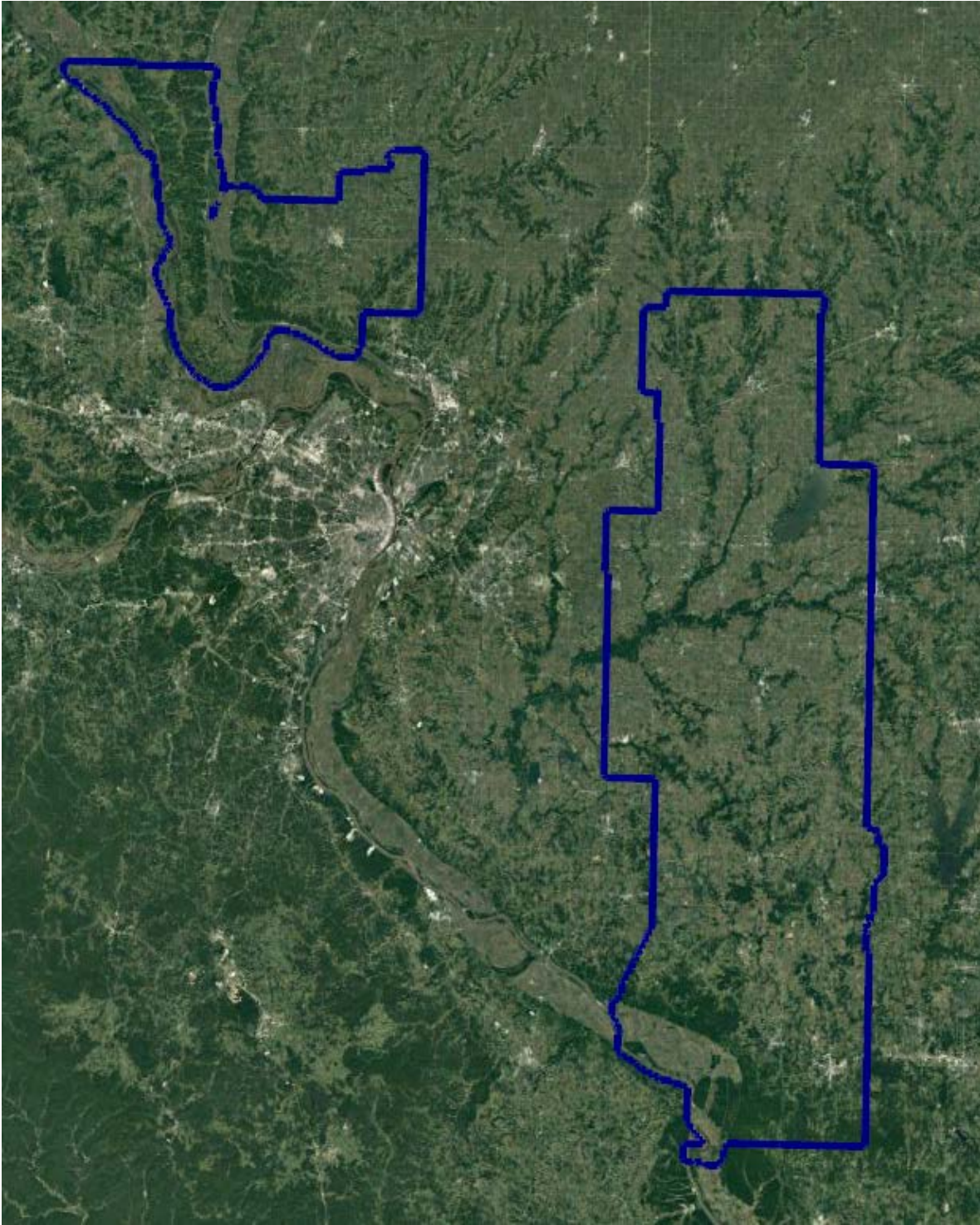


Figure 3: USGS_IL_SouthCentral_2_2021 project Area of Interest

Project Area Elevation Model

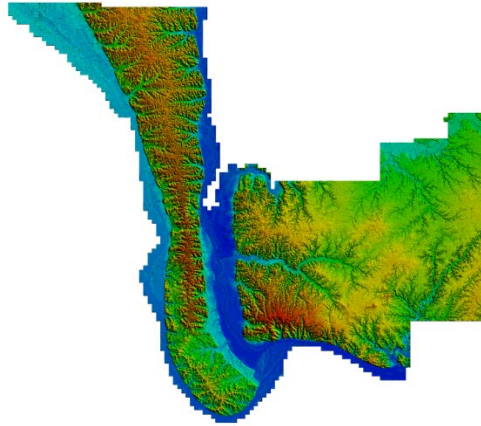


Figure 4: Western section of IL South Central project Elevation DEM

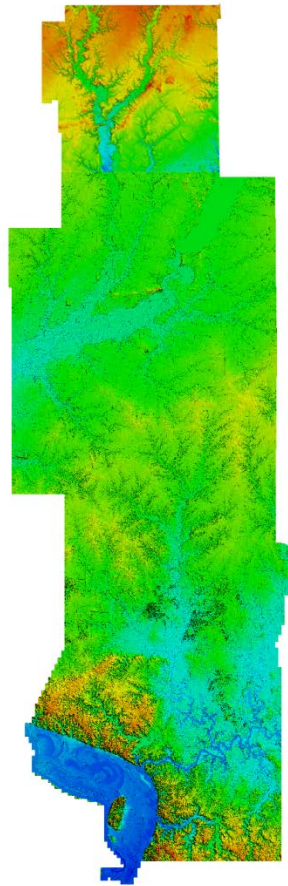


Figure 5: Eastern section of IL South Central project Elevation DEM

LiDAR Acquisition Detail

Aerial Services, Inc. the serving prime for this project along with subcontractors Aerial Surveys, International, and SurvTech Solutions performed the LiDAR Acquisition and Calibration for Illinois counties; Calhoun, Jersey, Bond, Clinton, Washington, Perry, Jackson, Macon, Moultrie, Shelby, Fayette, Marion, Effingham, Clay, Richland, Jefferson, and Vermillion.

The following image is of the Planned Flight Line Overview for the 17 counties of USGS Illinois South Central project area.

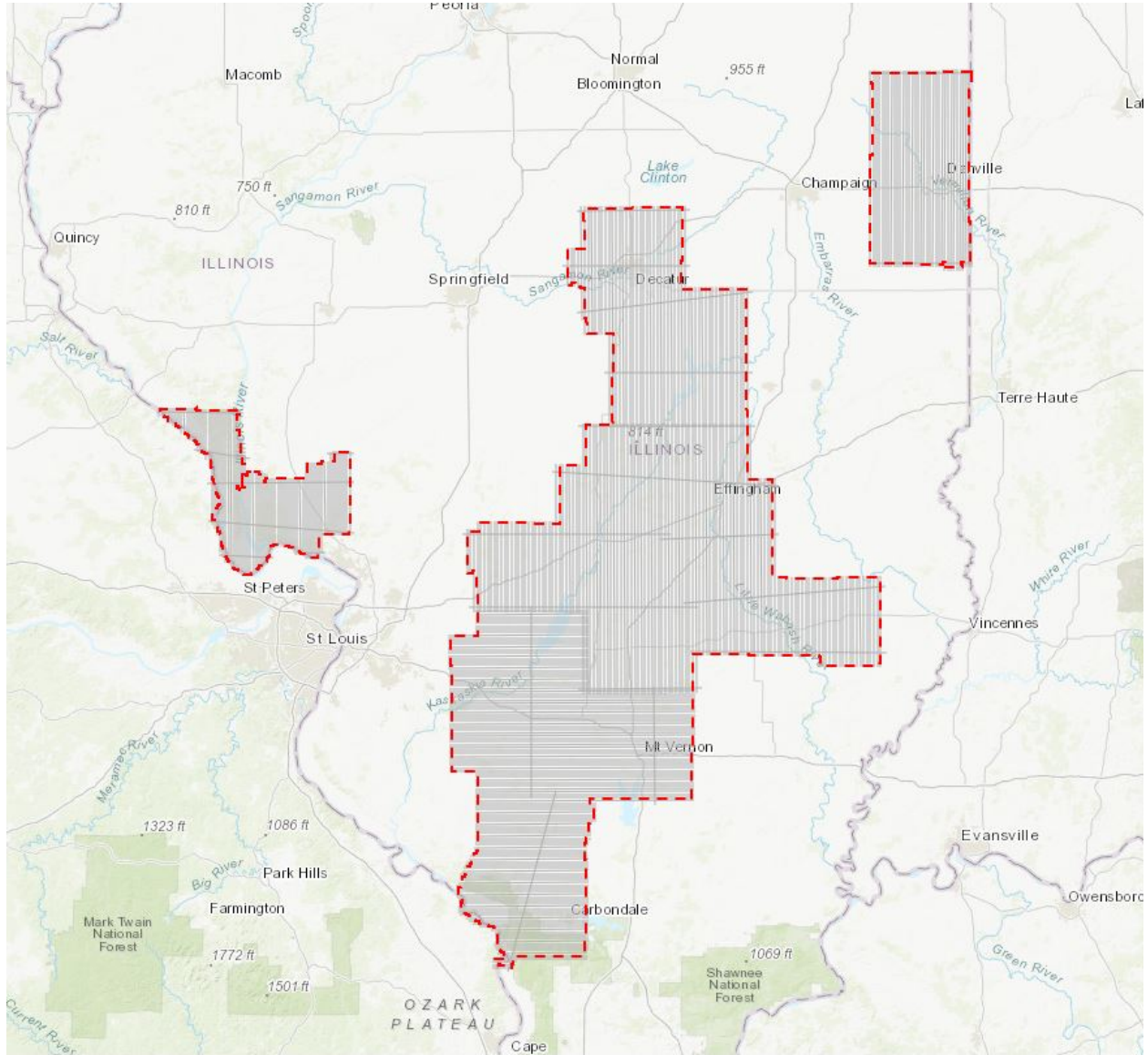


Figure 6: Illinois South Central planned flight line overview

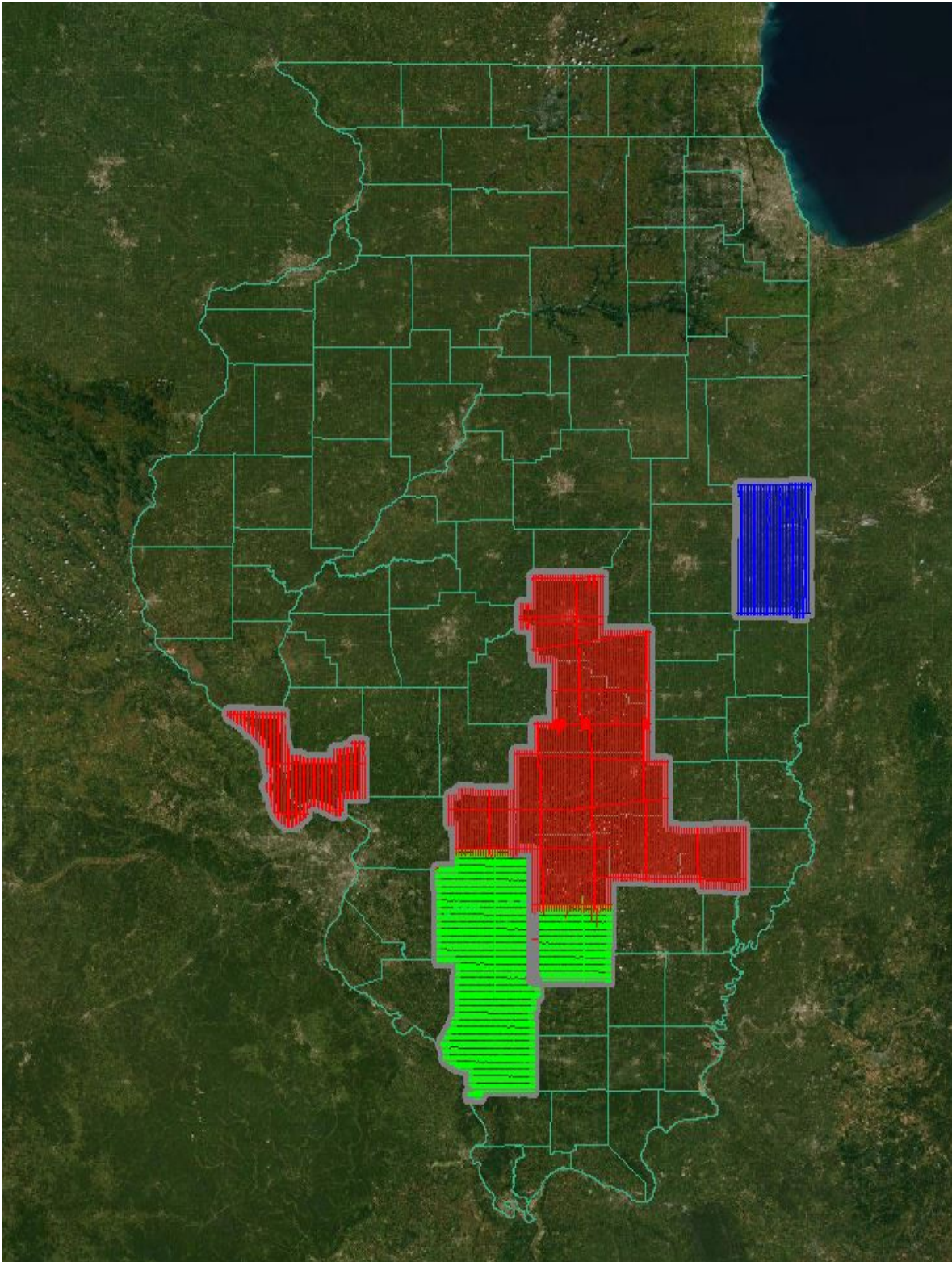


Figure 7: IL South Central project Lidar swath coverage.

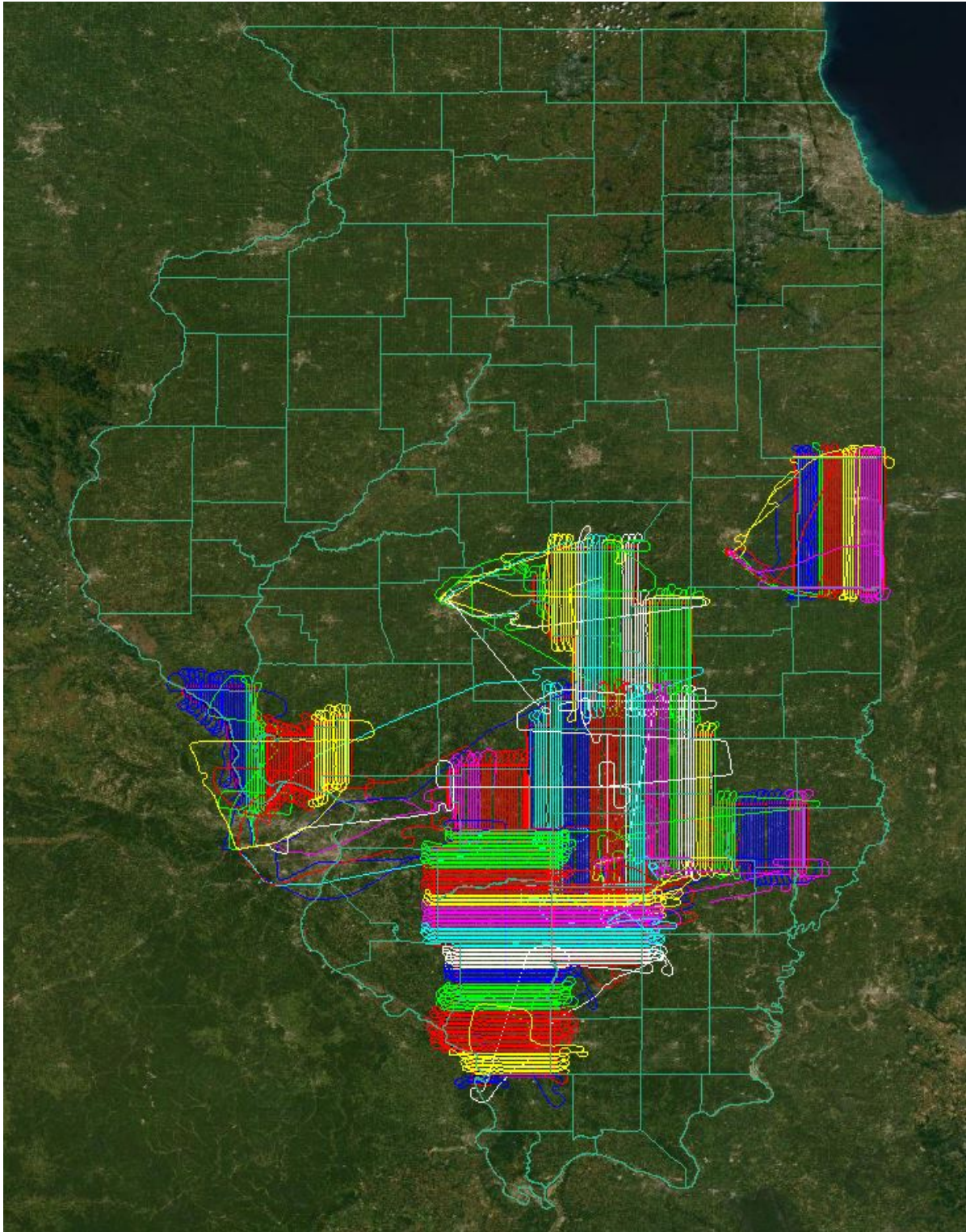


Figure 8: IL South Central project Combined project SBET

Aerial Surveys International, LLC LiDAR Acquisition Details and System parameters

Aerial Surveys International, LLC planned 248 passes for the entire Illinois South Central project area, of which 98 passes wholly or partially covered Calhoun, Jersey and Bond counties of the USGS_IL_SouthCentral_2_2021 project area, as well as a series of cross flightlines for quality control during processing and are not included in delivery.

- A digital flight line layout using Topoflight flight design software for direct integration into the aircraft flight navigation system.
- Planned flight lines; flight line numbers; and coverage area.
- Lidar coverage extended beyond all project borders to ensure necessary over-edge coverage appropriate for specific task order deliverables. A buffered AOI was provided by ASI.
- All airspace was coordinated and any controlled or restricted areas were pre coordinated and approval granted from the airspace owner.

Lidar System parameters

AERIAL SURVEYS INTERNATIONAL, LLC operated a Cessna 310 (Registration N7516Q) and a Cessna 402 (registration N2JJ) each equipped with an Optech T2000 Lidar system during the collection of this task order. Data was acquired between April 10, 2021 and April 12, 2021.

Item	Parameter
System	Optech T2000
Maximum Number of Returns per Pulse	8
Nominal Pulse Spacing (single swath), (m)	0.67
Nominal Pulse Density (single swath) (ppsm), (m)	2.49
Aggregate NPS (m) (if ANPS was designed to be met through single coverage, ANPS and NPS will be equal)	0.67
Aggregate NPD (m) (if ANPD was designed to be met through single coverage, ANPD and NPD will be equal)	2.21
Altitude (AGL meters)	2500
Approx. Flight Speed (knots)	160
Total Sensor Scan Angle (degrees)	32
Scan Rate (hz)	92
Scanner Pulse Rate (kHz)	800
Did the Sensor Operate with Multiple Pulses in The Air? (MPIA) (yes/no)	Yes
Beam Divergence (mRADs)	0.16
Nominal Swath Width on the Ground (m)	1434
Swath Overlap (%)	30
Computed Down Track spacing (m) per beam	0.67
Computed Cross Track Spacing (m) per beam	0.67

Table 3: Aerial Surveys International, LLC Lidar System Parameters

Calibration Report

Acquisition Control

AERIAL SURVEYS INTERNATIONAL, LLC, utilized POSPac PP-RTX to control the lidar acquisition for the South Central Illinois project area. POSPac PP-RTX is a cloud based global GNSS correction service which utilizes Trimble's RTX technology to provide cm level post-processed positioning accuracy without base stations.

Airborne GPS Kinematic

Airborne GPS data was processed using POSPac MMS 8.4 GNSS-aided inertial post-processing software suite. Flights were flown with a minimum of 6 satellites in view (13° above the horizon) and with a PDOP of better than 4.

For all flights, the GPS data can be classified as excellent, with GPS residuals of 3 cm average or better but no larger than 10 cm being recorded. GPS processing reports for each mission are included in Appendix B.

Generation and Calibration of Laser Points (raw data)

The initial step of calibration is to verify availability and status of all needed GPS and Laser data against field notes and compile any data if not complete.

Subsequently the mission points are output using Optech's LiDAR Mapping Suite (LMS), initially with default values from Optech's LiDAR Mapping Suite or the last mission calibrated for the system. The initial point generation for each mission calibration is verified within our MARS 8 software for calibration errors. If a calibration error greater than specification is observed within the mission, the roll, pitch, and scanner scale corrections that need to be applied are calculated. The missions with the new calibration values are regenerated and validated internally once again to ensure quality.

Data collected by the lidar unit is reviewed for completeness, acceptable point density and to make sure all data is captured without errors or corrupted values. In addition, all GPS, aircraft trajectory, mission information, and ground control files are reviewed and logged into a database.

On a project level, a supplementary coverage check is carried out to ensure no data voids unreported by Field Operations are present.

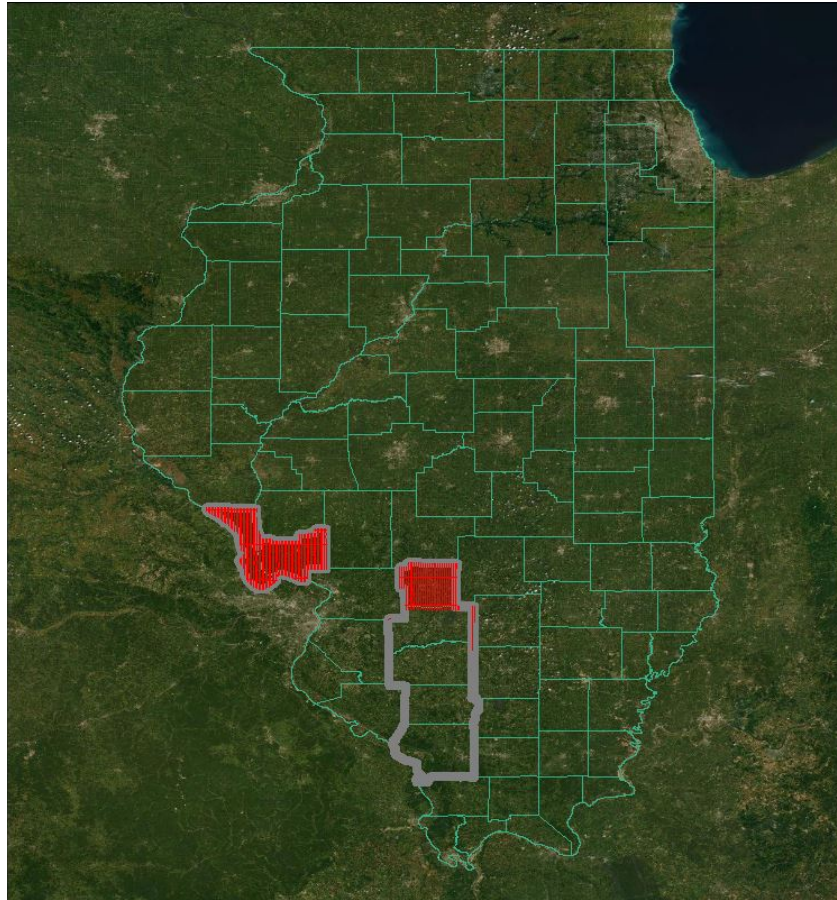


Figure 9: USGS_IL_SouthCentral_2_2021 project, Aerial Surveys International flights

Boresight and Relative Accuracy

The initial points for each mission calibration are inspected for flight line errors, flight line overlap, slivers, or gaps in the data, point data minimums, or issues with the lidar unit or GPS. Roll, pitch, and scanner scale are optimized during the calibration process until the relative accuracy is met.

Relative accuracy and internal quality are checked using at least 3 regularly spaced QC blocks in which points from all lines are loaded and inspected. Vertical differences between ground surfaces of each line are displayed. Color scale is adjusted so that errors greater than the specifications are flagged. Cross sections are visually inspected across each block to validate point to point, flight line to flight line and mission to mission agreement.

For this project, the specifications used are as follows (derived from LiDAR base specification 2.1, QL2): Relative accuracy (smooth surface repeatability) ≤ 6 cm maximum differences within individual swaths and ≤ 8 cm RMSDz between adjacent and overlapping swaths.



Figure 10: Profile views showing correct roll and pitch adjustments

SurvTech Solutions LiDAR Acquisition Details and System Parameters for South Central Illinois

SURVTECH SOLUTIONS planned for the collection of 159 for the entire Illinois South Central project area, of which 122 passes wholly or partially cover the USGS_IL_SouthCentral_2_2021 project area well as a series of cross flightlines for quality control. In order to reduce any margin for error in the flight plan, SURVTECH SOLUTIONS followed FEMA’s Appendix A guidelines for flight planning and, at a minimum, includes the following criteria:

- A digital flight line layout using Optech’s FMS Software flight design software for direct integration into the aircraft flight navigation system.
- Planned flight lines; flight line numbers; and coverage area.
- Lidar coverage extended beyond all project borders to ensure necessary over-edge coverage appropriate for specific task order deliverables. A buffered AOI was provided by ASI.
- All airspace was coordinated, and any controlled or restricted areas were pre coordinated and approval granted from the airspace owner.

SURVTECH SOLUTIONS operated a CESSNA 401 (Registration N41GD) equipped with an Optech Galaxy T2000 Lidar system during the collection of this task order. Data was acquired between March 7, 2021 and April 3, 2021.

Item	Parameter
System	Optech Galaxy T2000
Maximum Number of Returns per Pulse	8
Nominal Pulse Spacing (single swath), (m)	0.43
Nominal Pulse Density (single swath) (ppsm), (m)	5.33
Aggregate NPS (m) (if ANPS was designed to be met through single coverage, ANPS and NPS will be equal)	0.43
Aggregate NPD (m) (if ANPD was designed to be met through single coverage, ANPD and NPD will be equal)	5.33
Altitude (AGL meters)	2134
Approx. Flight Speed (knots)	150
Total Sensor Scan Angle (degrees)	40
Scan Rate (hz)	90
Scanner Pulse Rate (kHz)	800
Did the Sensor Operate with Multiple Pulses in The Air? (MPiA) (yes/no)	Yes
Beam Divergence (mRADs)	0.23
Nominal Swath Width on the Ground (m)	1553
Swath Overlap (%)	30
Computed Down Track spacing (m) per beam	0.43
Computed Cross Track Spacing (m) per beam	0.43

Table 4: SURVTECH SOLUTIONS LiDAR system parameters

Calibration Report

Point clouds are output using Optech’s LMS. The initial point generation for each mission calibration is verified within Microstation/Terrascan for calibration errors. If significant calibration errors are observed within the mission; the roll, pitch, heading, scale and z misalignments are calculated. The data is then regenerated with the new solution and is validated internally once again to ensure quality.

Relative accuracy and internal quality are checked using Terrasolid’s Terramatch, as well as, BayesMap-StripAlign, in which points from all lines are observed and compared. Vertical differences between ground surfaces of each line are displayed. Rasters are generated on single return tiles to model Dz between adjacent lines. Inter-swath accuracy is tested to the <.08m standard specified in the base spec. Data are visually inspected across each block to validate point to point, flight line to flight line and mission to mission agreement.

Acquisition Control

SURVTECH SOLUTIONS, utilized location listed in the table below, to control the lidar acquisition for South Central IL South Central.

Name	NAD83(2011) Decimal Degrees		Ellipsoid Ht
	Easting X	Northing Y	(GRS80, m)
KMVN-Rebar	38.323991	-88.854023	111.026
KMDH-Rebar	-89.251638	37.776574	94.262

Table 5: Base station used to control lidar acquisition for the Project.

Airborne GPS Kinematic

Airborne GPS data was processed through POSPAC GNSS-aided inertial post-processing software suite. Flights were flown with a minimum of 6 satellites in view (13° above the horizon) and with a PDOP of better than 4. Distances from base station to aircraft were kept to a maximum of 40 km.

For all flights, the GPS data can be classified as excellent, with GPS residuals of 3 cm average or better but no larger than 10 cm being recorded. GPS processing reports for each mission are included in Appendix A.

Generation and Calibration of Laser Points (raw data)

The initial step of calibration is to verify availability and status of all needed GPS and Laser data against field notes and compile any data if not complete.

Subsequently the mission points are output using Optech’s LMS, initially with default values from Optech’s LMS or the last mission calibrated for the system. The initial point generation for each mission calibration is verified within Microstation/Terrascan for calibration errors. If a calibration error greater than specification is observed within the mission, the roll, pitch, and scanner scale corrections that need to be applied are calculated. The missions with the new calibration values are regenerated and validated internally once again to ensure quality.

Data collected by the lidar unit is reviewed for completeness, acceptable point density and to make sure all data is captured without errors or corrupted values. In addition, all GPS, aircraft trajectory, mission information, and ground control files are reviewed and logged into a database.

On a project level, a supplementary coverage check is carried out to ensure no data voids unreported by Field Operations are present.

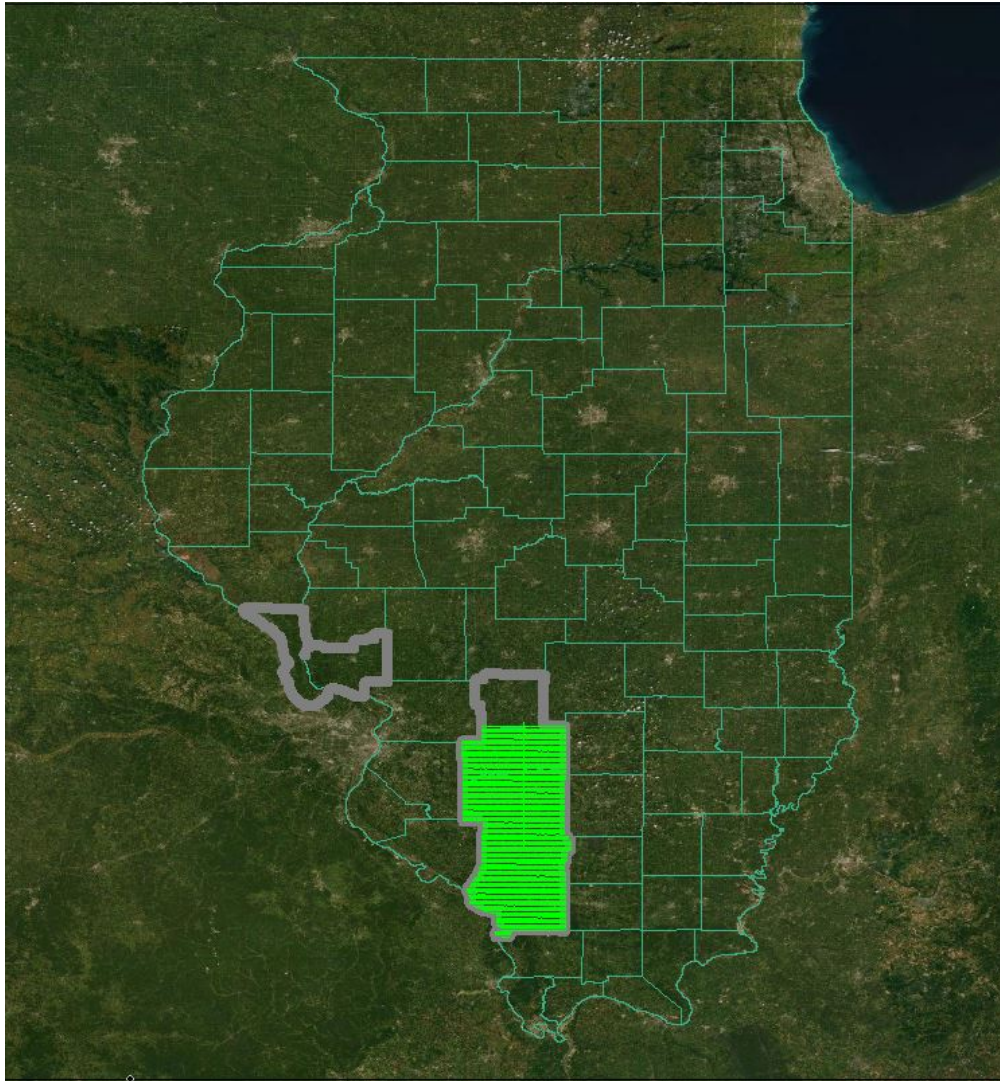


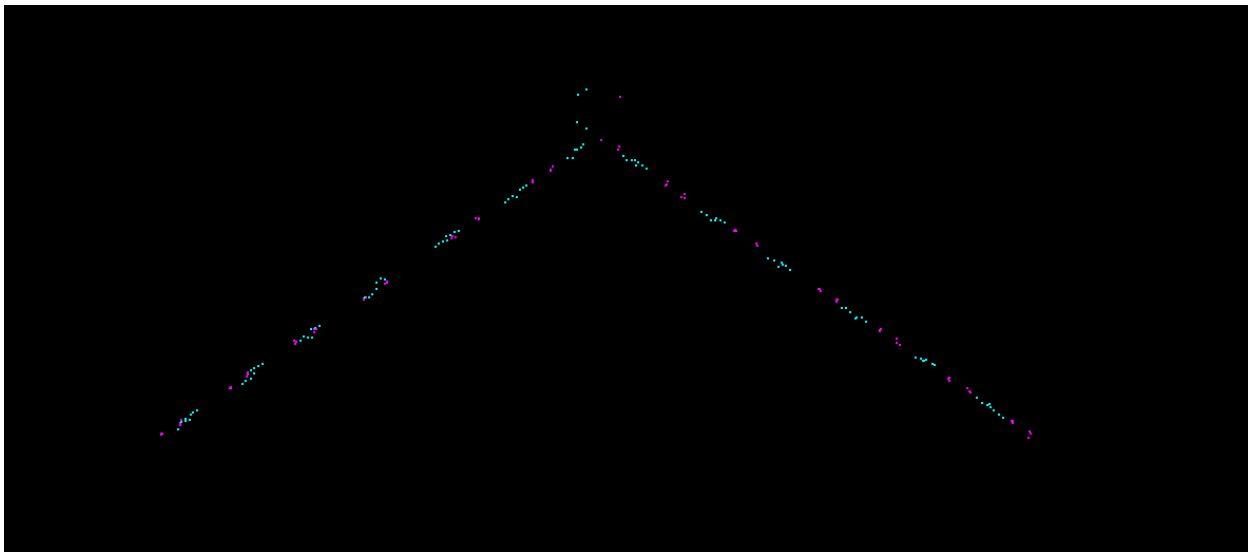
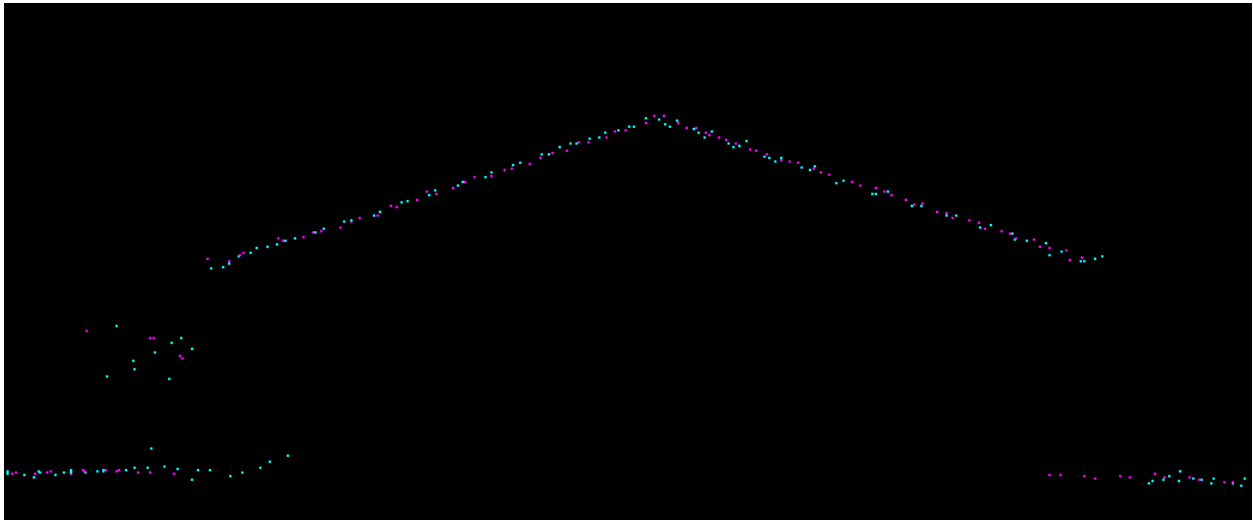
Figure 11: USGS_IL_SouthCentral_2_2021 project, SurvTech Solutions flights

Boresight and Relative Accuracy

The initial points for each mission calibration are inspected for flight line errors, flight line overlap, slivers, or gaps in the data, point data minimums, or issues with the lidar unit or GPS. Roll, pitch, and scanner scale are optimized during the calibration process until the relative accuracy is met.

Relative accuracy and internal quality are checked using at least 3 regularly spaced QC blocks in which points from all lines are loaded and inspected. Vertical differences between ground surfaces of each line are displayed. Color scale is adjusted so that errors greater than the specifications are flagged. Cross sections are visually inspected across each block to validate point to point, flight line to flight line and mission to mission agreement.

For this project, the specifications used are as follows (derived from LiDAR base specification 2.1, QL2): Relative accuracy (smooth surface repeatability) ≤ 6 cm maximum differences within individual swaths and ≤ 8 cm RMSDz between adjacent and overlapping swaths.



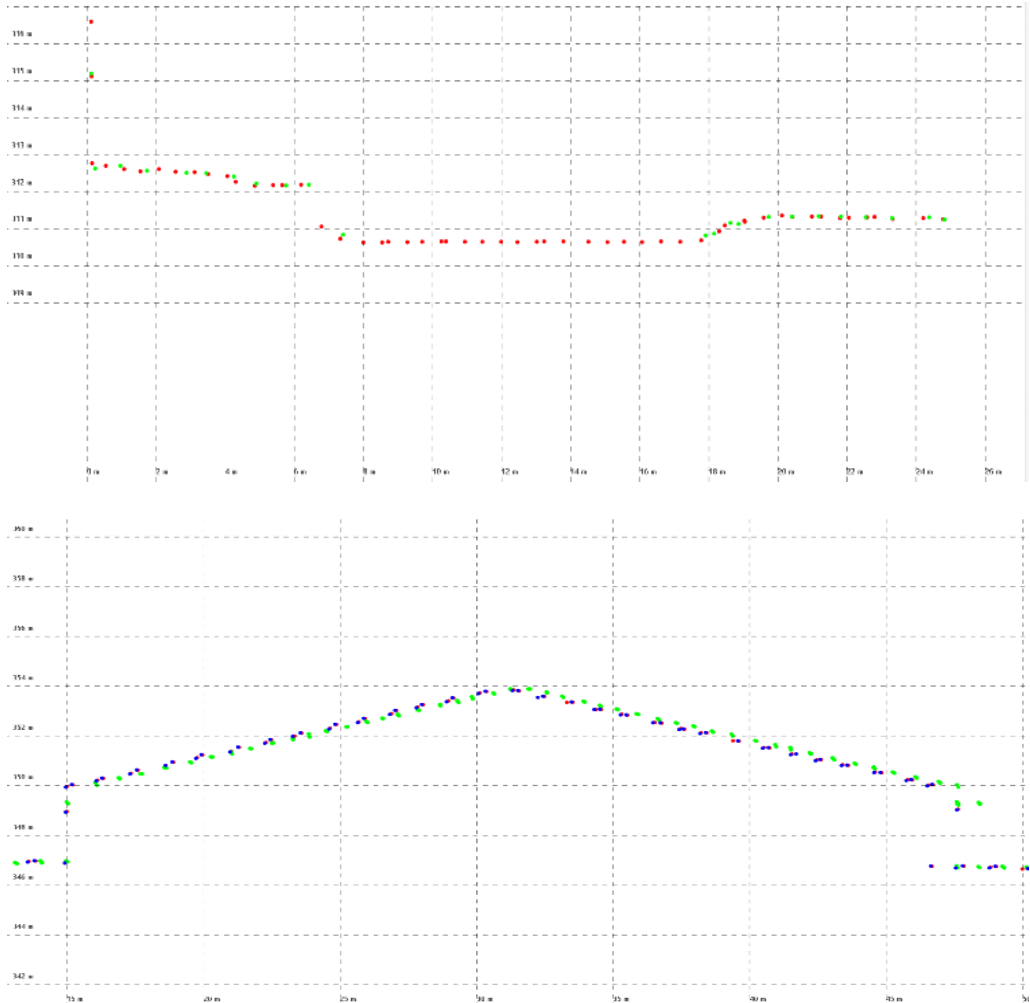


Figure 12: Profile views showing correct roll and pitch adjustments

The following table lists the Flightlines and corresponding, Lift_ID, Date, Point Source ID, Scanner, adjusted GPS Start and End times.

Name	Lift_ID	Date	PT Source ID	Scanner	Start Time	End Time
20210412_143911_66	4	4/12/21	4068	Optech	302273551	302274025
20210412_145018_18	4	4/12/21	4069	Optech	302274219	302274686
20210412_150157_86	4	4/12/21	4070	Optech	302274917	302275380
20210412_151426_01	4	4/12/21	4071	Optech	302275667	302276033
20210412_152359_67	4	4/12/21	4072	Optech	302276239	302276615
20210412_153334_04	4	4/12/21	4073	Optech	302276814	302277228
20210412_154330_95	4	4/12/21	4074	Optech	302277410	302277826
20210412_155406_71	4	4/12/21	4075	Optech	302278046	302278469
20210412_160360_69	4	4/12/21	4076	Optech	302278640	302279047
20210412_161342_90	4	4/12/21	4077	Optech	302279222	302279649
20210412_162401_05	4	4/12/21	4078	Optech	302279842	302280251
20210412_163405_26	4	4/12/21	4079	Optech	302280446	302280870
20210412_164401_84	4	4/12/21	4080	Optech	302281041	302281458
20210409_150433_25	1	4/9/21	4002	Optech	302015874	302015953
20210409_150926_25	1	4/9/21	4003	Optech	302016167	302016253
20210409_151512_79	1	4/9/21	4004	Optech	302016512	302016605
20210409_152007_37	1	4/9/21	4005	Optech	302016808	302016915
20210409_152623_41	1	4/9/21	4006	Optech	302017184	302017303
20210409_153131_03	1	4/9/21	4007	Optech	302017492	302017616
20210409_153760_65	1	4/9/21	4008	Optech	302017880	302018020
20210409_154319_68	1	4/9/21	4009	Optech	302018199	302018347
20210409_155009_30	1	4/9/21	4010	Optech	302018610	302018772
20210409_155608_12	1	4/9/21	4011	Optech	302018968	302019140
20210409_160251_49	1	4/9/21	4012	Optech	302019372	302019556
20210409_160914_20	1	4/9/21	4013	Optech	302019755	302019951
20210409_161532_22	1	4/9/21	4014	Optech	302020133	302020338
20210409_162238_53	1	4/9/21	4015	Optech	302020558	302020776

20210409_162954_89	1	4/9/21	4016	Optech	302020994	302021232
20210409_163732_01	1	4/9/21	4017	Optech	302021453	302021698
20210409_164537_13	1	4/9/21	4018	Optech	302021938	302022188
20210409_165319_24	1	4/9/21	4019	Optech	302022400	302022687
20210409_170228_38	1	4/9/21	4020	Optech	302022949	302023266
20210409_171531_05	1	4/9/21	4021	Optech	302023732	302024321
20210409_172903_78	1	4/9/21	4022	Optech	302024543	302025132
20210409_174230_97	1	4/9/21	4023	Optech	302025351	302025988
20210409_175654_71	1	4/9/21	4024	Optech	302026214	302026926
20210409_181220_41	1	4/9/21	4025	Optech	302027141	302027853
20210409_182813_14	1	4/9/21	4026	Optech	302028094	302028829
20210409_184404_88	1	4/9/21	4027	Optech	302029044	302029810
20210409_213253_58	2	4/9/21	4029	Optech	302039173	302039940
20210409_214913_27	2	4/9/21	4030	Optech	302040154	302040952
20210409_220535_06	2	4/9/21	4031	Optech	302041136	302041920
20210409_222153_30	2	4/9/21	4032	Optech	302042114	302042918
20210409_223840_24	2	4/9/21	4033	Optech	302043121	302043798
20210409_225328_77	2	4/9/21	4034	Optech	302044008	302044580
20210409_230657_97	2	4/9/21	4035	Optech	302044818	302045342
20210409_233444_87	2	4/9/21	4037	Optech	302046484	302046983
20210411_180105_70	3	4/11/21	4042	Optech	302199266	302199807
20210411_181353_36	3	4/11/21	4043	Optech	302200034	302200554
20210411_182651_08	3	4/11/21	4044	Optech	302200812	302201332
20210411_183945_79	3	4/11/21	4045	Optech	302201585	302202071
20210411_185145_44	3	4/11/21	4046	Optech	302202306	302202788
20210411_190339_61	3	4/11/21	4047	Optech	302203019	302203469
20210411_191503_78	3	4/11/21	4048	Optech	302203704	302204131
20210411_192540_34	3	4/11/21	4049	Optech	302204341	302204713
20210411_193557_61	3	4/11/21	4050	Optech	302204957	302205333
20210411_194534_22	3	4/11/21	4051	Optech	302205535	302205873
20210411_195458_87	3	4/11/21	4052	Optech	302206098	302206476

20210411_200411_49	3	4/11/21	4053	Optech	302206652	302207017
20210411_201416_63	3	4/11/21	4054	Optech	302207257	302207638
20210411_202342_27	3	4/11/21	4055	Optech	302207823	302208182
20210411_203316_91	3	4/11/21	4056	Optech	302208397	302208803
20210411_204240_05	3	4/11/21	4057	Optech	302208961	302209349
20210411_205239_19	3	4/11/21	4058	Optech	302209560	302209985
20210411_210310_34	3	4/11/21	4059	Optech	302210191	302210582
20210411_211305_49	3	4/11/21	4060	Optech	302210786	302211230
20210411_212444_66	3	4/11/21	4061	Optech	302211484	302211954
20210411_213629_36	3	4/11/21	4062	Optech	302212190	302212703
20210412_141645_69	4	4/12/21	4066	Optech	302272205	302272687
20210412_142808_19	4	4/12/21	4067	Optech	302272888	302273366
20210307_175831_81	1	3/7/21	3008	Optech	299175112	299175547
20210307_181005_98	1	3/7/21	3009	Optech	299175806	299176260
20210307_182059_13	1	3/7/21	3010	Optech	299176460	299176892
20210307_183215_29	1	3/7/21	3011	Optech	299177136	299177593
20210307_184304_44	1	3/7/21	3012	Optech	299177785	299178213
20210307_185416_59	1	3/7/21	3013	Optech	299178456	299178918
20210307_190551_18	1	3/7/21	3014	Optech	299179152	299179589
20210307_191702_91	1	3/7/21	3015	Optech	299179822	299180295
20210307_192822_58	1	3/7/21	3016	Optech	299180502	299180939
20210307_193948_23	1	3/7/21	3017	Optech	299181189	299181663
20210307_195123_89	1	3/7/21	3018	Optech	299181883	299182318
20210307_200237_55	1	3/7/21	3019	Optech	299182558	299183032
20210307_201333_71	1	3/7/21	3020	Optech	299183213	299183648
20210307_220643_37	2	3/7/21	3022	Optech	299190004	299190457
20210307_221804_95	2	3/7/21	3023	Optech	299190685	299191127
20210307_222849_68	2	3/7/21	3024	Optech	299191330	299191782
20210307_223928_35	2	3/7/21	3025	Optech	299191969	299192416
20210307_225006_50	2	3/7/21	3026	Optech	299192606	299193066
20210307_230105_14	2	3/7/21	3027	Optech	299193266	299193716

20210307_231230_30	2	3/7/21	3028	Optech	299193951	299194411
20210307_232326_46	2	3/7/21	3029	Optech	299194607	299195050
20210307_233352_09	2	3/7/21	3030	Optech	299195233	299195691
20210307_234522_77	2	3/7/21	3031	Optech	299195922	299196193
20210307_235213_87	2	3/7/21	3032	Optech	299196333	299196595
20210306_192432	210306A	3/6/21	5002	Optech	299093872	299094442
20210307_152332	210307A	3/7/21	5003	Optech	299165812	299166384
20210307_153546	210307A	3/7/21	5004	Optech	299166546	299167114
20210307_154807	210307A	3/7/21	5005	Optech	299167287	299167850
20210307_160006	210307A	3/7/21	5006	Optech	299168006	299168585
20210307_161242	210307A	3/7/21	5007	Optech	299168762	299169327
20210307_162513	210307A	3/7/21	5008	Optech	299169513	299170080
20210307_163740	210307A	3/7/21	5009	Optech	299170260	299170850
20210307_165122	210307A	3/7/21	5010	Optech	299171082	299171778
20210307_170555	210307A	3/7/21	5011	Optech	299171955	299172643
20210307_171953	210307A	3/7/21	5012	Optech	299172793	299173488
20210307_173629	210307A	3/7/21	5013	Optech	299173789	299174501
20210307_175102	210307A	3/7/21	5014	Optech	299174662	299175361
20210307_180606	210307A	3/7/21	5015	Optech	299175566	299176258
20210307_182013	210307A	3/7/21	5016	Optech	299176413	299177119
20210307_183504	210307A	3/7/21	5017	Optech	299177304	299178011
20210307_184934	210307A	3/7/21	5018	Optech	299178174	299178868
20210307_190357	210307A	3/7/21	5019	Optech	299179037	299179740
20210307_191819	210307A	3/7/21	5020	Optech	299179899	299180595
20210307_214301	210307B	3/7/21	5021	Optech	299188581	299189298
20210307_215731	210307B	3/7/21	5022	Optech	299189451	299190137
20210307_221224	210307B	3/7/21	5023	Optech	299190344	299191030
20210307_222609	210307B	3/7/21	5024	Optech	299191169	299191848
20210307_224039	210307B	3/7/21	5025	Optech	299192039	299192729
20210307_225420	210307B	3/7/21	5026	Optech	299192860	299193555
20210307_230848	210307B	3/7/21	5027	Optech	299193728	299194425

20210307_232252	210307B	3/7/21	5028	Optech	299194572	299195263
20210307_234506	210307B	3/7/21	5029	Optech	299195906	299197106
20210308_000758	210307B	3/7/21	5030	Optech	299197278	299198463
20210308_003046	210307B	3/7/21	5031	Optech	299198646	299199852
20210308_005331	210307B	3/7/21	5032	Optech	299200011	299201195
20210308_145957	210308A	3/8/21	5034	Optech	299250797	299252004
20210308_152241	210308A	3/8/21	5035	Optech	299252161	299253349
20210308_154602	210308A	3/8/21	5036	Optech	299253562	299254768
20210308_160852	210308A	3/8/21	5037	Optech	299254932	299256107
20210308_163154	210308A	3/8/21	5038	Optech	299256314	299257519
20210308_165441	210308A	3/8/21	5039	Optech	299257681	299258850
20210308_210655	210308B	3/8/21	5040	Optech	299272815	299274035
20210308_212952	210308B	3/8/21	5041	Optech	299274192	299275388
20210308_215305	210308B	3/8/21	5042	Optech	299275585	299276785
20210308_221535	210308B	3/8/21	5043	Optech	299276935	299278129
20210308_223860	210308B	3/8/21	5044	Optech	299278340	299279537
20210308_230116	210308B	3/8/21	5045	Optech	299279676	299280861
20210308_232428	210308B	3/8/21	5046	Optech	299281068	299282264
20210308_234637	210308B	3/8/21	5047	Optech	299282397	299283602
20210309_000947	210308B	3/8/21	5048	Optech	299283787	299284978
20210309_003205	210308B	3/8/21	5049	Optech	299285125	299286314
20210309_142114	210309A	3/9/21	5050	Optech	299334874	299336081
20210309_144357	210309A	3/9/21	5051	Optech	299336237	299337430
20210309_150905	210309A	3/9/21	5052	Optech	299337745	299338953
20210309_153145	210309A	3/9/21	5053	Optech	299339105	299340303
20210309_155432	210309A	3/9/21	5054	Optech	299340472	299341678
20210309_161729	210309A	3/9/21	5055	Optech	299341849	299343033
20210309_164024	210309A	3/9/21	5056	Optech	299343224	299344433
20210309_170228	210309A	3/9/21	5057	Optech	299344548	299345735
20210309_172554	210309A	3/9/21	5058	Optech	299345954	299347042
20210309_174617	210309A	3/9/21	5059	Optech	299347177	299348226

20210331_130322	210331A	3/31/21	5060	Optech	301231002	301232099
20210331_132424	210331A	3/31/21	5061	Optech	301232264	301233327
20210331_134612	210331A	3/31/21	5062	Optech	301233572	301234680
20210331_140727	210331A	3/31/21	5063	Optech	301234847	301235898
20210331_142823	210331A	3/31/21	5064	Optech	301236103	301237196
20210331_144850	210331A	3/31/21	5065	Optech	301237330	301238385
20210331_150948	210331A	3/31/21	5066	Optech	301238588	301239663
20210331_153003	210331A	3/31/21	5067	Optech	301239803	301240874
20210331_155729	210331A	3/31/21	5068	Optech	301241449	301242059
20210331_160959	210331A	3/31/21	5069	Optech	301242199	301242781
20210401_132003	210401A	4/1/21	5071	Optech	301318403	301319017
20210401_133312	210401A	4/1/21	5072	Optech	301319192	301319801
20210401_134743	210401A	4/1/21	5073	Optech	301320063	301320670
20210401_140059	210401A	4/1/21	5074	Optech	301320859	301321455
20210401_141458	210401A	4/1/21	5075	Optech	301321698	301322295
20210401_142752	210401A	4/1/21	5076	Optech	301322472	301323068
20210401_144128	210401A	4/1/21	5077	Optech	301323288	301323882
20210401_150401	210401A	4/1/21	5078	Optech	301324641	301324785
20210401_150903	210401A	4/1/21	5079	Optech	301324943	301325087
20210401_141429	210401A	4/1/21	5080	Optech	301325269	301325422
20210401_152026	210401A	4/1/21	5081	Optech	301325626	301326122
20210402_120616	210402A	4/2/21	5082	Optech	301400376	301400963
20210402_121960	210402A	4/2/21	5083	Optech	301401200	301401784
20210402_123215	210402A	4/2/21	5084	Optech	301401935	301402509
20210402_124530	210402A	4/2/21	5085	Optech	301402730	301403314
20210402_125804	210402A	4/2/21	5086	Optech	301403484	301404052
20210402_131049	210402A	4/2/21	5087	Optech	301404249	301404825
20210402_132400	210402A	4/2/21	5088	Optech	301405040	301405607
20210402_133705	210402A	4/2/21	5089	Optech	301405825	301406394
20210402_134930	210402A	4/2/21	5090	Optech	301406570	301407160
20210402_140313	210402A	4/2/21	5091	Optech	301407393	301407995

20210402_141601	210402A	4/2/21	5092	Optech	301408161	301408758
20210402_143053	210402A	4/2/21	5093	Optech	301409053	301409660
20210402_144355	210402A	4/2/21	5094	Optech	301409835	301410458
20210402_161018	210402B	4/2/21	5095	Optech	301415018	301415663
20210402_162324	210402B	4/2/21	5096	Optech	301415804	301416462
20210402_163754	210402B	4/2/21	5097	Optech	301416674	301417329
20210402_165143	210402B	4/2/21	5098	Optech	301417503	301418161
20210402_170612	210402B	4/2/21	5099	Optech	301418372	301419039
20210402_171946	210402B	4/2/21	5100	Optech	301419186	301419858
20210402_173420	210402B	4/2/21	5101	Optech	301420060	301420740
20210402_174832	210402B	4/2/21	5102	Optech	301420912	301421596
20210402_180301	210402B	4/2/21	5103	Optech	301421781	301422457
20210402_181650	210402B	4/2/21	5104	Optech	301422610	301423277
20210402_183119	210402B	4/2/21	5105	Optech	301423479	301424148
20210402_184515	210402B	4/2/21	5106	Optech	301424315	301424968
20210402_190000	210402B	4/2/21	5107	Optech	301425200	301425864
20210402_191329	210402B	4/2/21	5108	Optech	301426009	301426660
20210402_192812	210402B	4/2/21	5109	Optech	301426892	301427552
20210402_194142	210402B	4/2/21	5110	Optech	301427702	301428353
20210402_195602	210402B	4/2/21	5111	Optech	301428562	301429210
20210402_201001	210402B	4/2/21	5112	Optech	301429401	301430020
20210402_202315	210402B	4/2/21	5113	Optech	301430195	301430806
20210402_203526	210402B	4/2/21	5114	Optech	301430926	301431525
20210403_125820	210403A	4/3/21	5115	Optech	301489900	301490470
20210403_130937	210403A	4/3/21	5116	Optech	301490577	301491147
20210403_132235	210403A	4/3/21	5117	Optech	301491355	301491842
20210403_133319	210403A	4/3/21	5118	Optech	301491999	301492481
20210403_134435	210403A	4/3/21	5119	Optech	301492675	301493159
20210403_135456	210403A	4/3/21	5120	Optech	301493296	301493775
20210403-140556	210403A	4/3/21	5121	Optech	301493956	301494437
20210403_141644	210403A	4/3/21	5122	Optech	301494604	301495087

20210403_142750	210403A	4/3/21	5123	Optech	301495270	301495757
20210403_143811	210403A	4/3/21	5124	Optech	301495891	301496359
20210403_144834	210403A	4/3/21	5125	Optech	301496514	301496993
20210307_010745_60	0	3/7/21	3003	Optech	299114465	299115158
20210307_172404_32	1	3/7/21	3005	Optech	299173045	299173480
20210307_173614_78	1	3/7/21	3006	Optech	299173774	299174209
20210307_174723_15	1	3/7/21	3007	Optech	299174444	299174895

Final Calibration Verification

Prairie Engineers conducted the survey throughout the area of interest 111 ground control points (GCPs) were used to test the accuracy of the calibrated swath data. 39 GCPs were available to use as control in case the swath data exhibited any biases which would need to be adjusted or removed. The coordinates of all GCPs are provided in the figure below. Surveyed ground control points (GCPs) and the accuracy results from testing the calibrated swath data against the GCPs is provided in the following tables. Ground control points (GCPs) vertical accuracy results no further adjustments to the swath data were required based on the accuracy results of the GCPs.

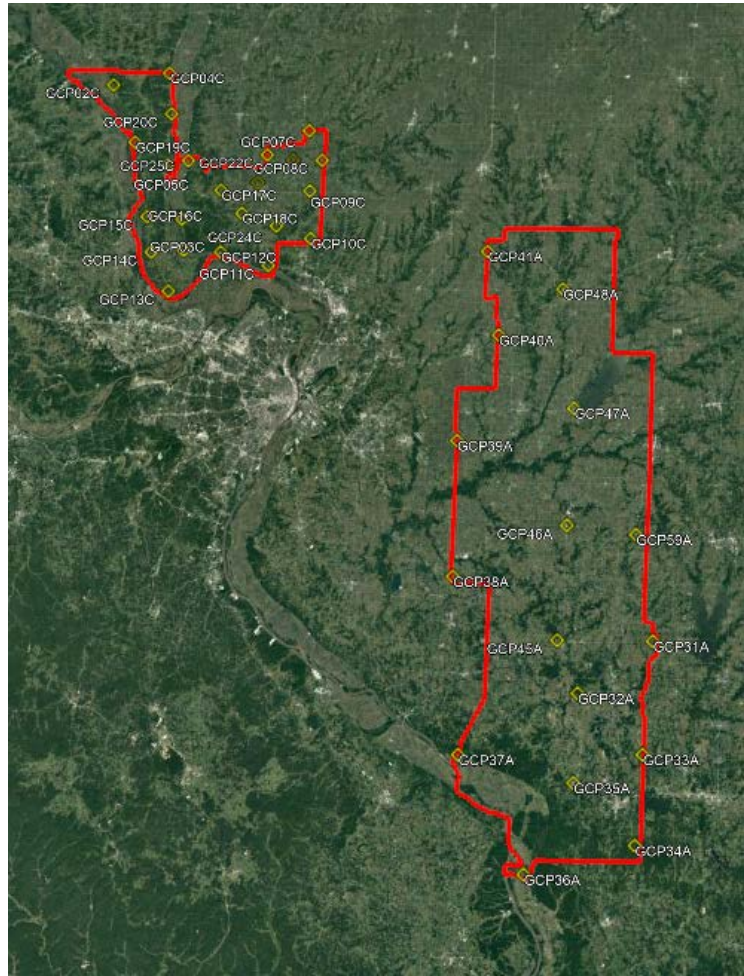


Figure 13: surveyed Ground Control Point Locations

Point ID	NAD83 (2011 adj) IL SP East Zone		NAVD88 (Geoid 18)		Dz (USft)
	Easting X (USft)	Northing Y (USft)	Z-Survey (USft)	Z-LiDAR (USft)	
GCP31A	2596731.4	517148.283	418.781	419.06	0.279
GCP32A	2536418.816	473901.367	393.132	393.31	0.178
GCP33A	2591309.872	424926.432	392.55	392.75	0.2
GCP34A	2587351.198	351802.078	603.534	603.52	-0.014
GCP35A	2535568.328	401333.283	416.841	416.82	-0.021
GCP36A	2497614.582	327416.231	370.687	370.83	0.143
GCP37A	2440235.679	422775.445	372.933	373.23	0.297
GCP38A	2429707.935	568082.648	515.759	515.69	-0.069
GCP39A	2428141.441	680815.386	461.76	461.95	0.19
GCP40A	2459047.113	769885.822	523.483	523.56	0.077
GCP41A	2446586.714	840899.771	603.422	603.47	0.048
GCP45A	2518060.67	516935.62	457.64	457.79	0.15
GCP46A	2522441.066	611417.225	511.835	511.92	0.085
GCP47A	2524567.373	708969.342	460.294	460.46	0.166
GCP48A	2511320.312	809372.968	567.376	567.51	0.134
GCP59A	2579845.866	604455.898	547.111	546.97	-0.141
GCP02C	2118527.231	983716.557	477.535	477.46	-0.075
GCP03C	2188756.325	840248.368	424.179	424.15	-0.029
GCP04C	2166288.217	994089.911	448.184	448.1	-0.084
GCP05C	2170183.078	913815.644	434.002	433.89	-0.112
GCP06C	2248368.679	898618.51	591.534	591.62	0.086
GCP07C	2289645.233	944133.852	490.886	490.9	0.014

GCP08C	2302139.414	918464.431	587.657	587.68	0.023
GCP09C	2293163.615	891819.82	609.714	609.58	-0.134
GCP10C	2296294.092	850814.02	661.907	661.81	-0.097
GCP11C	2261491.468	827452.328	438.106	438.14	0.034
GCP12C	2220267.651	838777.624	431.057	431.12	0.063
GCP13C	2177755.977	805052.488	643.812	643.77	-0.042
GCP14C	2160983.273	838487.833	571.142	571.12	-0.022
GCP15C	2155278.329	868924.436	534.185	534.18	-0.005
GCP16C	2185435.772	866887.248	445.042	444.99	-0.052
GCP17C	2217324.371	892084.338	660.651	660.69	0.039
GCP18C	2236414.69	872200.9	569.526	569.66	0.134
GCP19C	2140705.477	933549.193	448.52	448.49	-0.03
GCP20C	2170429.409	958377.061	442.497	442.38	-0.117
GCP22C	2255040.342	922948.513	505.074	505.11	0.036
GCP23C	2277480.113	918578.266	537.683	537.59	-0.093
GCP24C	2266425.737	861481.768	587.071	586.98	-0.091
GCP25C	2187660.071	917589.156	444.817	444.72	-0.097

Table 6: USGS_IL_SouthCentral_2_2021 surveyed ground control points (GCPs).

This project meets Ground Control Vertical Accuracy ≤ 19.6 cm at the 95% confidence level based on $RMSEz \leq 10$ cm $\times 1.9600$.

100 % of Totals	# of Points	RMSEz NVA (USft)	NVA-Non-vegetated Vertical Accuracy ((RMSEz $\times 1.9600$) USft)	Mean (USft)	Median (USft)	Skew	Std Dev (USft)	Min (USft)	Max (USft)	Kurtosis
GCP	39	0.037	0.072	0.011	0.007	0.136	0.035	-0.043	0.091	-0.167

Table 7: USGS_IL_SouthCentral_2_2021 Ground Control Vertical Accuracy (GCP) results

Between Swath Relative Accuracy (DZ Orthos)

Inter-swath relative accuracy passes specification. All pixels colored green are areas where overlapping flight lines are within 8 cm of each other. Areas colored red are where differences greater than 16 cm exist (this is expected in vegetated and sloped areas).

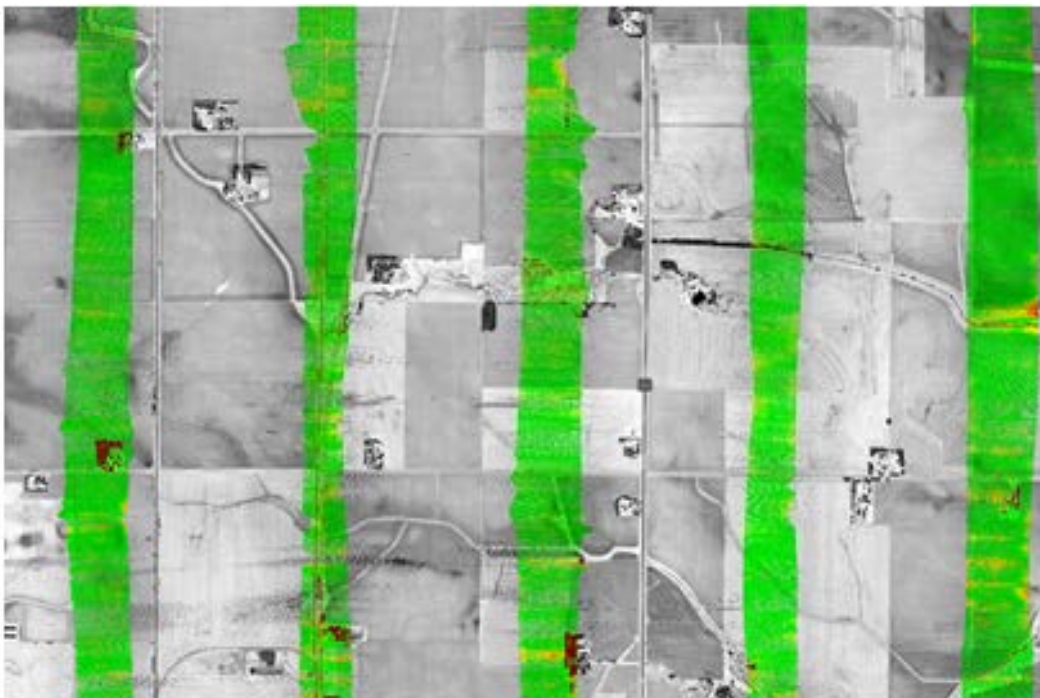


Figure 14: DZ Ortho of inter-swath

Within Swath Relative Accuracy (Intraswath)

Intra-swath relative accuracy was reviewed and passes specification. All flight lines were reviewed to confirm intra-swath within 6 cm (green) of each on flat plainer surfaces. Areas colored red are where differences greater than 6 cm exist. Red areas are expected in vegetated and sloped areas as this is an assessment only of hard surface repeatability.



Figure 15: DZ Ortho of inter-swath

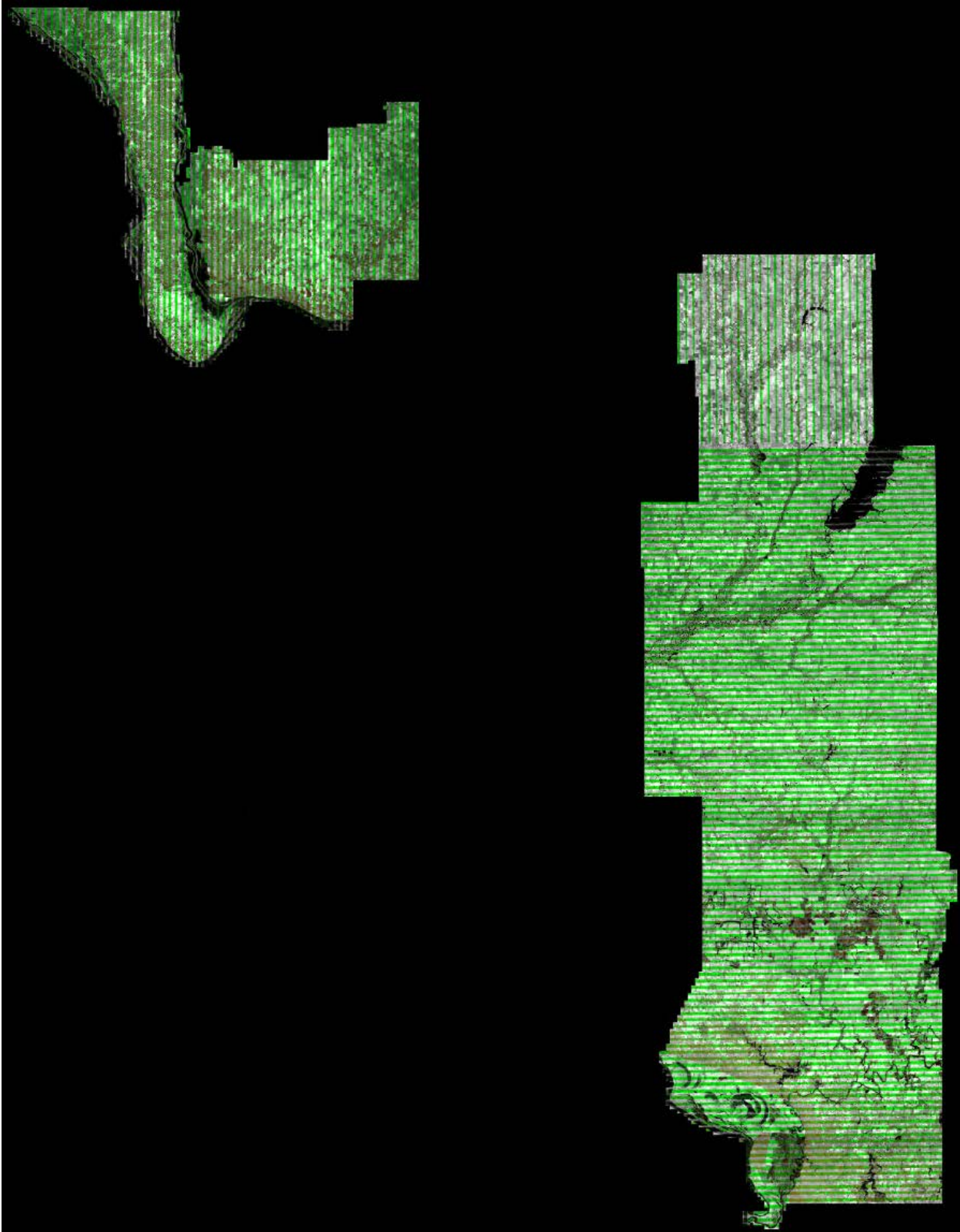
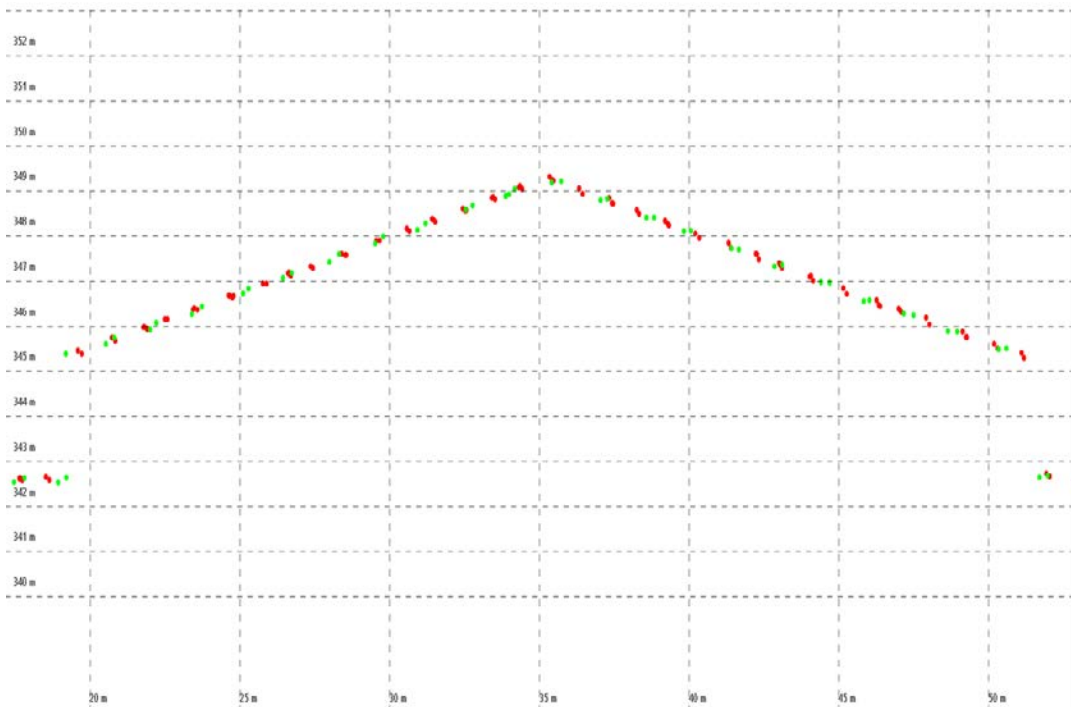


Figure 16: USGS_IL_SouthCentral_2_2021 Project Area Delta-z raster image.

Horizontal Alignment/Calibration Check (Rooftops/Planar Surface Profiles)

The profiles show lidar points colored by flight line. The overlapping flight lines match and there is no horizontal (or vertical) offset between the flight lines.



See Appendix B: For Aerial Surveys International, LLC GPS and IMU Processing Reports

DATA CLASSIFICATION AND EDITING

Once the calibration, absolute swath vertical accuracy, and relative accuracy of the data were confirmed, ASI utilized TerraScan software for data processing. The acquired 3D laser point clouds, in LAS binary format, were imported into the project and tiled according to the project tile grid. Once tiled, the laser points were classified using a proprietary routine in TerraScan. This routine classifies any obvious low outliers in the dataset to class 7 and high outliers in the dataset to class 18. After points that could negatively affect the ground are removed from class 1, the ground layer is extracted from this remaining point cloud. The ground extraction process encompassed in this routine takes place by building an iterative surface model. This surface model is generated using three main parameters: building size, iteration angle and iteration distance. The initial model is based on low points being selected by a "roaming window" with the assumption that these are the ground points. The size of this roaming window is determined by the building size parameter. The low points are triangulated and the remaining points are evaluated and subsequently added to the model if they meet the iteration angle and distance constraints. This process is repeated until no additional points are added within iterations. A second critical parameter is the maximum terrain angle constraint, which determines the maximum terrain angle allowed within the classification model.

Once the ground surface had been deduced through the filtering process a vegetation class was then extracted by distance from ground from the remaining class 1. Vegetation points were filtered by distance into Low Vegetation is 0.5-5 feet, Medium Vegetation is 5-20 feet, High Vegetation is >20 feet from the ground. Classes 3, 4, and 5 define low, medium, and high vegetation points respectively and were classified using an automated method. These vegetation classes represent all non-noise points that fall into the distances above the ground surface, and will likely include buildings, utility poles, powerlines, and other infrastructure.

In TerraScan surface models for each tile was created to examine the ground classification. Subcontractor Ayres Associates and SurvTech analysts visually reviewed the ground surface model for artifacts left in the ground classification. These artifacts consist of vegetation, buildings, and bridges that were still present in the ground after initial processing. Ayres Associates and SurvTech analysts employ 3D visualization techniques to view the point cloud at multiple angles and in profile to ensure that errant points are removed from the ground classification. Bridge decks are manually classified to class 17. After the ground classification had been completed, the dataset was processed through a water classification routine that utilized breaklines compiled by the Subcontractor to automatically classify hydro features. The water classification routine selects ground points within the breakline polygons and automatically classifies them as class 9, water. During this water classification routine, ground points that are within 2x NPS or less of the hydrographic features are moved to class 20 ignored ground, due to breakline proximity. Overage points are then identified in TerraScan and used to set the overlap bit for those points. The withheld points identified during the classification routine are used to set the withheld bit. The LiDAR tiles were classified to the following classification schema:

- o Class 1 – Default, Processed, but unclassified
- o Class 2 – Ground, Bare-earth
- o Class 3 – Low Vegetation is 0.5-5 feet
- o Class 4 – Medium Vegetation is 5-20 feet

- o Class 5 – High Vegetation is >20 feet
- o Class 7 – Low Noise (low and manually identified)
- o Class 9 – Water
- o Class 17 – Bridge Decks
- o Class 18 – High Noise (high, manually identified)
- o Class 20 – Ignored Ground (Breakline Proximity)

After manual classification, the LAS tiles were peer reviewed and then underwent a final QA/QC. After the final QA/QC and corrections, the LAS files were then bitset finalized to LAS v1.4 using TerraScan software to flag the overlap bit and withheld bit. An LP360 64 bit was used to deduce the Well Known Text (WKT) and ASI proprietary software was used to format the LAS to the final LAS v1.4 Format 6 version. LAStools by rapidlasso GmbH, open source, lasInfo (open source LGPL) and ASI proprietary software was used to perform final analysis to checks on LAS header information, LAS point classes, and LAS timestamps.

This project consists of 83,028,275,596 lidar points the table below shows the total number of points for every class.

Project Count by Class		
Class 1	Processed, unclassified	13517409540
Class 2	Bare-earth ground	27312927328
Class 3	Low vegetation (0.5-5ft)	670119688
Class 4	Medium vegetation (5-20ft)	2170398983
Class 5	High vegetation (>20ft)	5363655794
Class 7	Low Noise	0
Class 9	Water	453424346
Class 17	Bridge Decks	2444027
Class 18	High Noise	0
Class 20	Ignored_Ground	9444511
Class Overlap 1	Overlap Processed, unclassified	16698274153
Class Overlap 2	Overlap Bare-earth ground	11098659861

Class Overlap 3	Overlap Low vegetation (0.5-5ft)	499598741
Class Overlap 4	Overlap Medium vegetation (5-20ft)	1507494122
Class Overlap 5	Overlap High vegetation (>20ft)	3688221198
Class Overlap 7	Overlap Low Noise	0
Class Overlap 9	Overlap Water	29911345
Class Overlap 17	Overlap Bridge Decks	1030923
Class Overlap 18	Overlap High Noise	0
Class Overlap 20	Overlap Ignored_Ground	3377566
Class Withheld 7	Withheld Low Noise	0
Class Withheld 18	Withheld High Noise	0
Class Overlap Withheld 7	Overlap Withheld Low Noise	1554728
Class Overlap Withheld 18	Overlap Withheld High Noise	328742
Project Total Count		83028275596

Table 8: By Class Point Count.

LiDAR Qualitative Assessment

ASI's qualitative assessment utilizes a combination of statistical analysis and interpretative methodology or visualization to assess the quality of the data for a bare-earth digital terrain model (DTM). This includes creating pseudo image products such as LiDAR orthos produced from the intensity returns, Triangular Irregular Network (TIN)'s, Digital Elevation Models (DEM) and 3-dimensional models as well as reviewing the actual point cloud data. This process looks for anomalies in the data, areas where man-made structures or vegetation points may not have been classified properly to produce a bare-earth model, and other classification errors. This report will present representative examples where the LiDAR and post processing had issues as well as examples of where the LiDAR performed well.

VISUAL REVIEW

The following sections describe common types of issues identified in LiDAR data and the results of the visual review USGS_IL_SouthCentral_2_2021 project.

Data Voids

Acceptable voids (areas with no LiDAR returns in the LAS files) that are present in the majority of LiDAR projects include voids caused by bodies of water. No unacceptable voids are present in the USGS_IL_SouthCentral_2_2021 project.

Bridge Removal Artifacts

The DEM surface models are created from TINs or Terrains. TIN and Terrain models create continuous surfaces from the inputs. Because a continuous surface is being created, the TIN or Terrain will use interpolation to continue the surface beneath the bridge where no LiDAR data was acquired. Locations where bridges were removed will generally contain less detail in the bare-earth surface because these areas are interpolated. The DEM in the bottom view shows an area where a bridge has been removed from ground. The surface model must make a continuous model and in order to do so, points are connected through interpolation. This results in less detail where the surface must be interpolated. The profile in the top view shows the LiDAR points of this particular feature colored by class. All bridge points have been removed from ground (orange) and are bridge deck (blue).

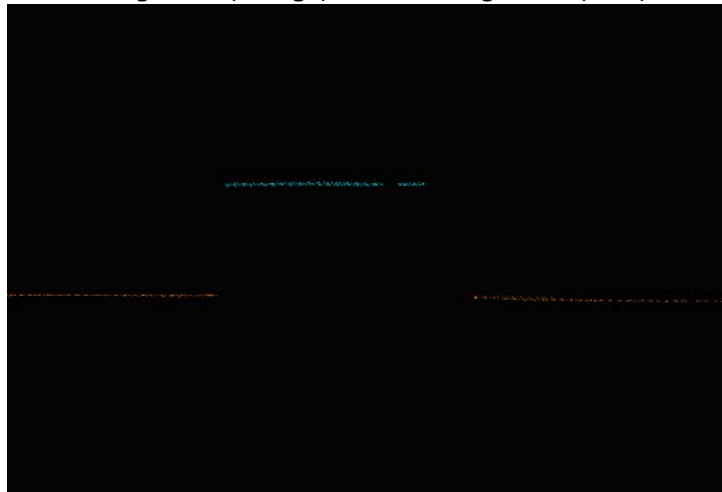


Figure 17: Profile view of a classified bridge deck (blue) and ground (orange).

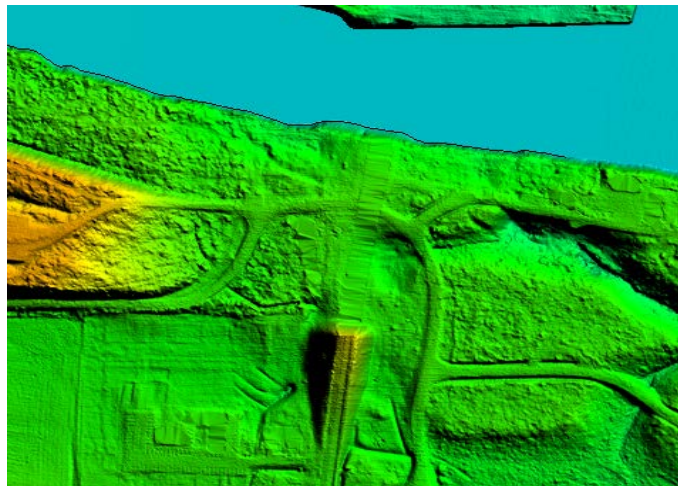


Figure 18: DEM with bridge removed from surface model.

Culverts

Bridges have been removed from the bare earth surface while culverts remain in the bare earth surface. In instances where it is difficult to determine if the feature is a culvert or bridge, such as with some small bridges, ASI erred on assuming they would be culverts especially if they are on secondary or tertiary roads. Below is an example of a culvert that has been left in the ground surface.

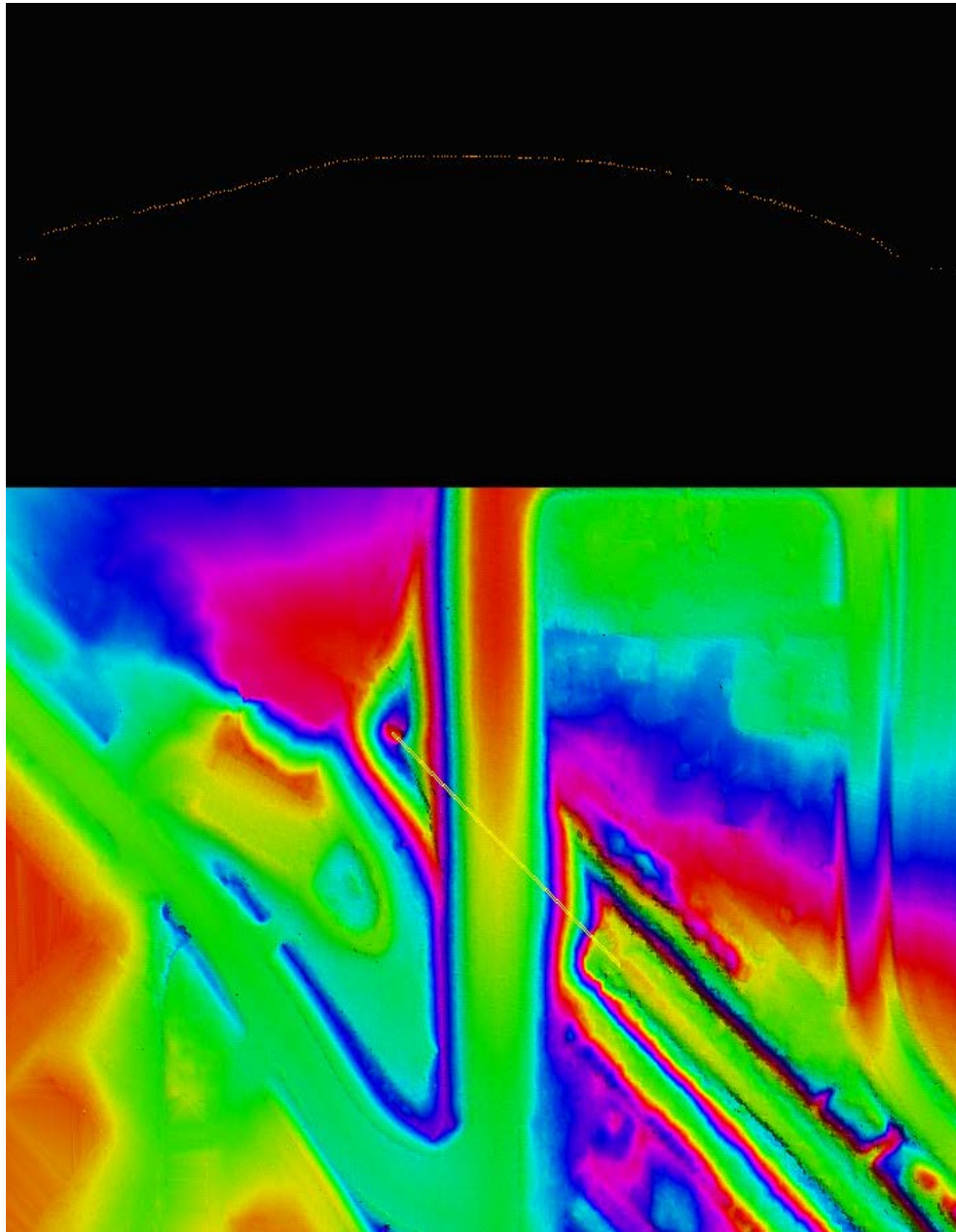


Figure 19: Profile with points colored by class (class 1=white, class 2=orange) is shown in the top view and the DEM is shown in the bottom view. This culvert remains in the bare earth surface. Bridges have been removed from the bare earth surface and classified to class 17.

Dirt Mounds

Irregularities in the natural ground exist and may be misinterpreted as artifacts that should be removed. Hills and dirt mounds are present throughout the project area. These features are correctly included in the ground.

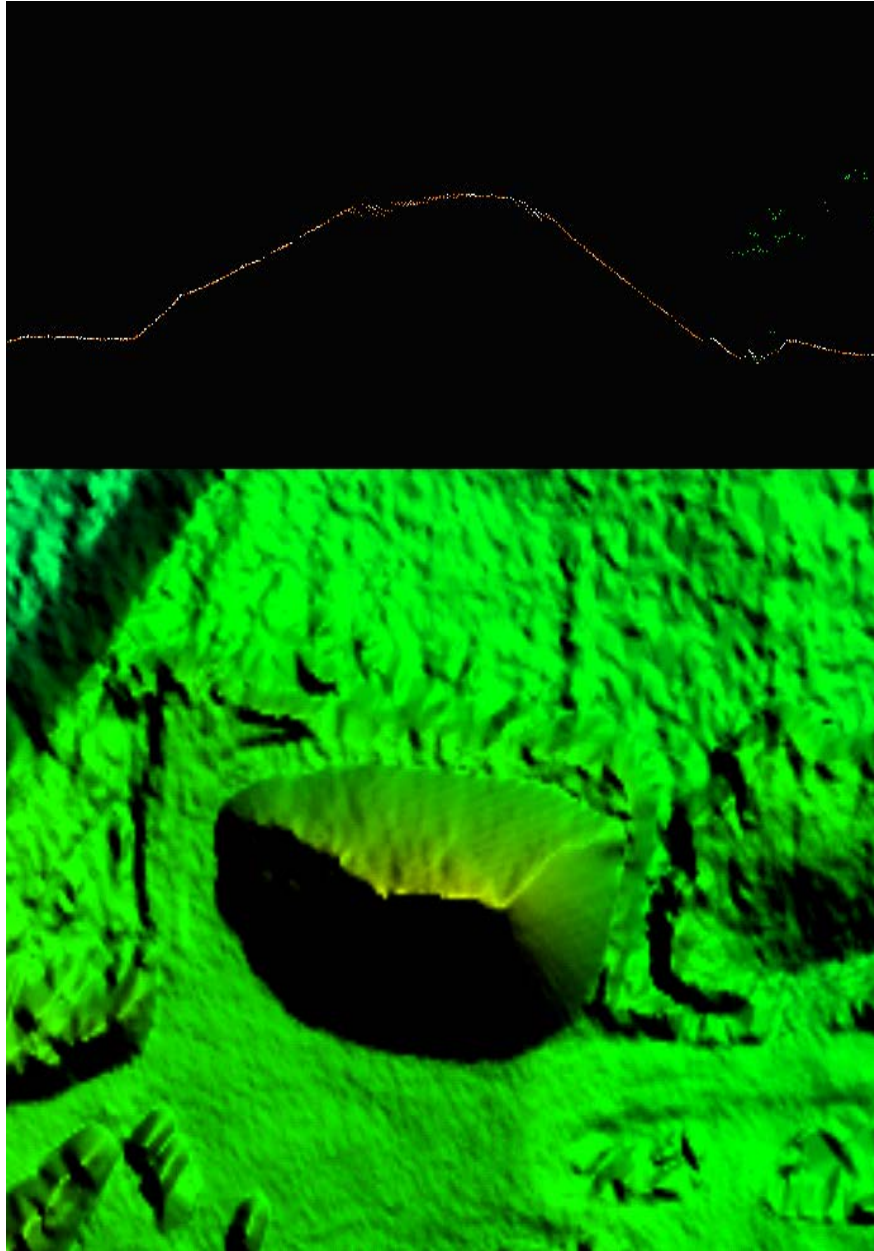


Figure 20: Profile with the points colored by class (unclassified points are white, ground points are orange) is shown on the right and a DEM of the surface is shown to the left. These features are correctly included in the ground classification.

Flightline Ridges

Ridges occur when there is a difference between the elevations of adjoining flight lines or swaths. Some flightline ridges are visible in the final DEMs but they do not exceed the project specifications and the overall relative accuracy requirements for the project area have been met. An example of a visible flightline ridge that is within tolerance is shown below.

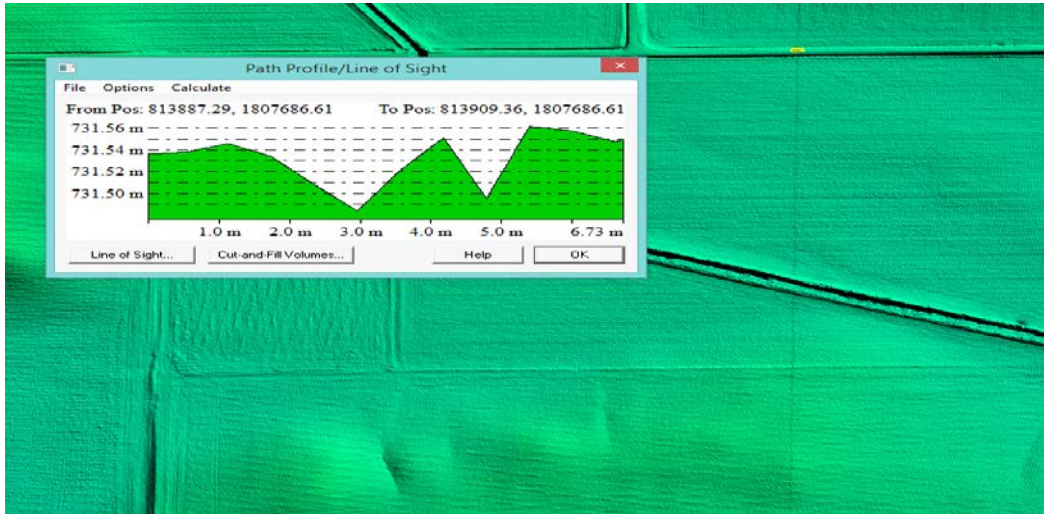


Figure 21: The flight line ridge is less than 8 cm. Overall; the IL South Central project data meets the project specifications for 8 cm RMSDz relative accuracy requirement

Dam and Lock system

Irregularities in the natural water flow exist in sections of river affected by Lock and Dam systems. Series of locks enable vessels to “step” up or down a river or canal from one water level to another. There are no Lock systems in the USGS_IL_SouthCentral_2_2021 project area.

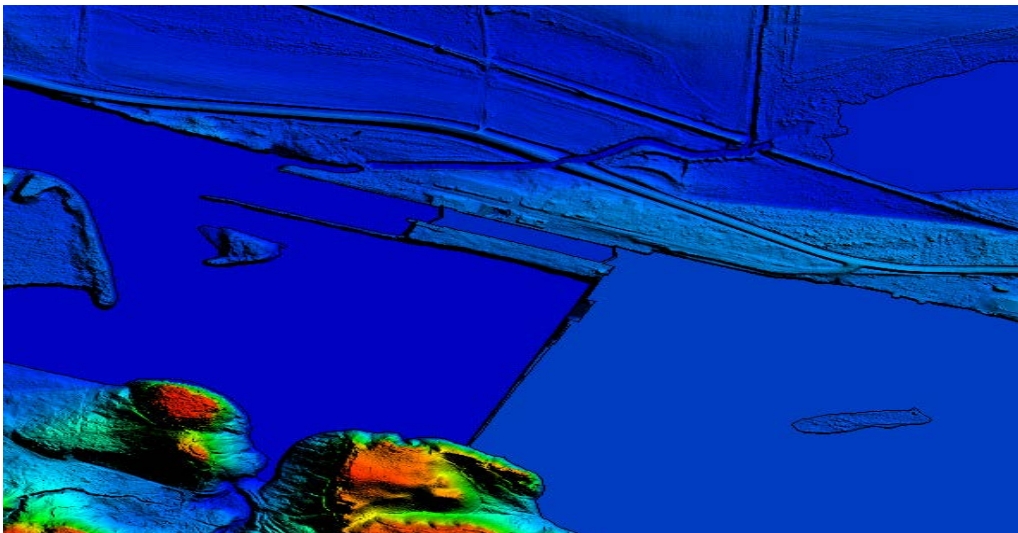


Figure 22: DEM shows Large Dam structure that disrupts natural monotonic river flow, coupled with a lock system

FORMATTING

After the final QA/QC is performed and all corrections have been applied to the dataset, all LiDAR files are updated to the final format requirements and the final formatting, header information, point data records, and variable length records are verified using ASI proprietary tools. ASI routinely reviews for: proper LAS versions, Coordinate Reference System, Global Encoder Bit, Time Stamp, System ID, Multiple Returns, Intensity, Classification, Overlap and Withheld Points, Scan angle, XYZ Coordinates.

LiDAR Positional Accuracy

BACKGROUND

ASI quantitatively tested the dataset by testing the vertical accuracy of the LiDAR. The vertical accuracy is tested by comparing the discrete measurement of the survey checkpoints to that of the interpolated value within the three closest LiDAR points that constitute the vertices of a three-dimensional triangular face of the TIN. Therefore, the end result is that only a small sample of the LiDAR data is actually tested. However there is an increased level of confidence with LiDAR data due to the relative accuracy. This relative accuracy in turn is based on how well one LiDAR point "fits" in comparison to the next contiguous LiDAR measurement, and is verified as part of the initial processing. If the relative accuracy of a dataset is within specifications and the dataset passes vertical accuracy requirements at the location of survey checkpoints, the vertical accuracy results can be applied to the whole dataset with high confidence due to the passing relative accuracy. The nature of lidar data makes it difficult to assess absolute horizontal accuracy as one would with imagery or compiled planimetric data. Guidance on how absolute horizontal accuracy can be estimated and reported based on the error budget of the instrumentation and operational parameters can be found in ASPRS (2014). The horizontal accuracy of each lidar project shall be reported using the form specified by the ASPRS (2014).

SURVEY VERTICAL ACCURACY CHECKPOINTS

For the vertical accuracy assessment of USGS_IL_SouthCentral_2_2021 project, eighty eight checkpoints were surveyed. All of those checkpoints are located within bare earth/open terrain (88 NVA points). Please see provided survey report which details and validates how the survey was completed for this project. Checkpoints were evenly distributed throughout the project area so as to cover as many flight lines as possible using the "dispersed method" of placement. All checkpoints surveyed for vertical accuracy testing purposes are listed in the following table.

Point ID	NAD83 (2011) UTM Zone 15 North	NAD83 (2011) UTM Zone 15 North	NAVD88 (Geoid18)
	Easting (M)	Northing (M)	Elevation (M)
NVA026A	2582236.68	477917.23	404.51
NVA027A	2567870.95	420454.92	403.03
NVA028A	2572033.11	387681.66	408.67
NVA030A	2541227.38	340830.24	684.31

NVA031A	2497344.76	376944.35	389.35
NVA032A	2480033.33	408536.88	377.96
NVA033A	2540451.15	436514.92	394.96
NVA034A	2489576.21	445361.37	605.66
NVA035A	2463649.46	480865.14	487.96
NVA036A	2472372.24	517720.13	458.8
NVA037A	2477847.51	546707.09	571.32
NVA038A	2522583.51	559545.64	501.9
NVA039A	2431855.84	618134.2	427.87
NVA040A	2473650.26	641122.47	447.01
NVA041A	2455164.13	683597.96	442.8
NVA042A	2433616.21	709668.82	503.66
NVA043A	2479752.73	714386.62	479.57
NVA044A	2459098.16	751733.38	505.41
NVA045A	2473561.08	789586.33	579.3
NVA046A	2451270.27	809653.58	556.97
NVA047A	2465249.02	849037.84	584.9
NVA048A	2493184.19	860515.57	616.74
NVA070A	2529381.07	680919.44	441.84
NVA071A	2588600.42	646563.9	575.03
NVA072A	2565507.33	568864.54	536.87
NVA073A	2523220.47	766930.21	486.35
NVA088A	2562643.01	517110.24	474.45
NVA089A	2473134.59	618473.34	465.23

NVA090A	2524615.99	647253.48	452.68
NVA096A	2546507.71	612884.02	528.78
NVA097A	2496877.52	681531.93	448.93
NVA098A	2523355.89	740459.44	462.21
NVA109A	2573860.19	718933.16	477.6
NVA121A	2552087.48	647717.48	522
NVA122A	2541685.11	516753.8	462.88
NVA123A	2487270.17	581380.33	515.2
NVA130A	2523021.03	798864.61	531.21
NVA135A	2503452.89	706973.24	454.72
NVA136A	2523226.63	860736.8	630.82
NVA154A	2491441.91	766556.94	483.66
NVA156A	2493463.74	485285.96	448.39
NVA157A	2563052.47	490878.42	459.49
NVA158A	2494956.71	350096.31	357.8
NVA01C	2141444.55	991078.5	736.85
NVA02C	2111305.08	995806.06	473.78
NVA03C	2122182.17	978076.02	465.72
NVA04C	2134163.89	953613.13	449.88
NVA05C	2155194.56	956691.84	707.49
NVA06C	2166623.66	935525.35	444.95
NVA07C	2153504.62	938499.3	736.89
NVA08C	2145021.3	922405.64	573.09
NVA09C	2168720.63	930380.36	435.36

NVA10C	2151981.62	902125.13	466.14
NVA11C	2178850.41	901908.69	423.96
NVA12C	2241461.94	911896.28	566.12
NVA13C	2270821.56	918354.62	529.77
NVA14C	2297142.08	929034.37	534.78
NVA15C	2164238.28	825887.76	626.25
NVA16C	2297218.36	906479.8	628.2
NVA17C	2298089.83	874593.26	643.7
NVA18C	2277471.88	850796.73	548.19
NVA19C	2270164.23	863976.73	564.73
NVA20C	2254669.93	849474.43	632.14
NVA21C	2254290.65	887417.5	619.94
NVA22C	2217529.81	880355.2	644.92
NVA23C	2203099.53	837925.54	423.54
NVA24C	2228233.72	855702.03	665.26
NVA25C	2173882.45	838112.14	531.22
NVA26C	2173711.74	814984.78	649.47
NVA27C	2157287.53	862518.09	589.22
NVA28C	2155277.28	892459.12	460.74
NVA29C	2270799.77	891961.17	586.39
NVA30C	2184804.73	888645.17	450.85
NVA31C	2244991.95	831823.07	619.95
NVA32C	2262780.08	875065.5	659.34
NVA33C	2204912.87	906490.03	438.5

NVA34C	2197328.07	890722.45	694.19
NVA35C	2187665.69	857580.71	437.63
NVA36C	2283954.91	910510.38	561.29
NVA37C	2298416.66	863999.31	646.79
NVA38C	2091113.89	990801.73	447.64
NVA39C	2167161.4	985549.64	436.63
NVA40C	2201631.47	858199.54	788.83
NVA41C	2213555.57	871800.79	483.57
NVA42C	2285313.04	881292.49	592.98
NVA43C	2240249.13	891989.15	613.43
NVA44C	2251979.53	865377.87	640.75
NVA45C	2223792.02	908065.83	586.79
VVA041A	2564032.17	491915.19	464.03
VVA042A	2589939.4	394384.1	415.91
VVA043A	2574622.33	349035.33	428.62
VVA045A	2495290.31	367041.06	387.74
VVA046A	2480151.31	408582.35	374.09
VVA048A	2490803.78	444198.22	604.96
VVA049A	2523783.24	500817.54	422.73
VVA050A	2523391.68	613154.72	493.5
VVA052A	2533357.25	729978.13	451.33
VVA053A	2429713.69	567761.8	514.71
VVA054A	2433429.82	680251.64	446.83

VVA055A	2473518.47	790584.86	576.15
VVA061A	2529480.76	672710.56	424.83
VVA072A	2575428.86	589822.63	533.27
VVA074A	2521350.34	815035.98	579.02
VVA075A	2522758.22	567197.64	483.25
VVA076A	2485179.69	517343.6	450.74
VVA077A	2573185.28	450779.68	377.19
VVA078A	2566988.39	540357.38	497.95
VVA079A	2455147.25	667741.07	410.22
VVA080A	2482669.44	753418.76	511.43
VVA089A	2597732.5	517069.04	409.61
VVA090A	2485218.97	430337.12	424.22
VVA092A	2480135	647137.13	444.92
VVA093A	2463983.68	848578.05	580.2
VVA098A	2561483.93	388520.55	412.77
VVA099A	2535031.1	450299.16	383.77
VVA100A	2525459.87	539754.46	432.26
VVA101A	2478967.69	710726.62	461.74
VVA102A	2513888.95	780053.27	523.65
VVA113A	2542209.22	416396.48	402.66
VVA114A	2472584.04	591962.47	497.75
VVA116A	2573828.05	718934.37	475.88
VVA01C	2125244.21	971563.97	454.22
VVA02C	2107716.26	982799.26	437.21

VVA03C	2145075.65	994670.59	674.11
VVA04C	2171649.94	956280.84	426.95
VVA05C	2134107.21	953503.75	445.76
VVA06C	2139053.46	940737.51	447.92
VVA07C	2170729.71	922277.69	425.41
VVA08C	2153832.73	881458.41	470.82
VVA09C	2153670.67	850339	439.96
VVA10C	2167249.98	825283.67	639.17
VVA11C	2184979.47	803788.94	437.06
VVA12C	2203314.23	836489.65	424.77
VVA13C	2180613.9	867043.69	424.77
VVA14C	2177560.92	897415.19	420.26
VVA15C	2227451.71	908790.74	532.41
VVA16C	2259279.71	923758.88	462.95
VVA17C	2291456.07	940980.8	478.98
VVA18C	2297551.87	927929.82	545.54
VVA19C	2302433.92	913111.77	603.38
VVA20C	2294185.48	899826.5	605.91
VVA21C	2297909.38	875859.54	636.82
VVA22C	2297035.48	851712.6	660.11
VVA23C	2271434.97	860513.05	570.48
VVA24C	2251065.79	834795.9	447.31
VVA25C	2256108.54	893872.79	620
VVA26C	2205346.72	890203.68	685.75

VVA27C	2211429.93	859888.07	724.39
VVA28C	2250230.41	860110.59	635.29
VVA29C	2232091.54	876121.72	504.93
VVA30C	2235544.19	849644.04	636.79
VVA31C	2156761.53	977411.96	511.93
VVA32C	2148879.92	911599.05	482.76
VVA33C	2273337.92	886651.52	562.49
VVA34C	2208966.44	876069.25	475.74
VVA35C	2151234.39	951120.58	703.75

Table 9: IL South Central project LiDAR Validation Checkpoints.

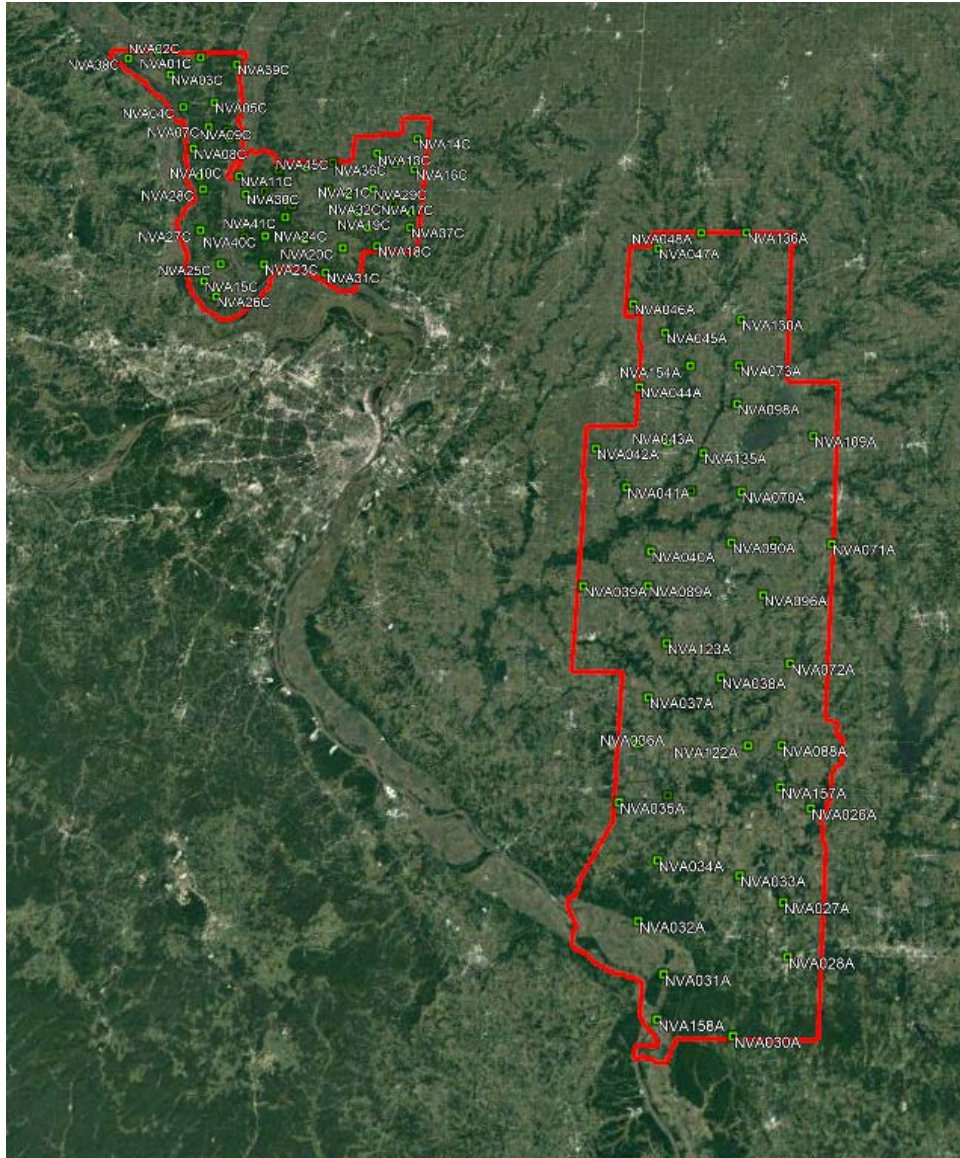


Figure 23: Location of USGS_IL_SouthCentral_2_2021 LiDAR NVA Checkpoints

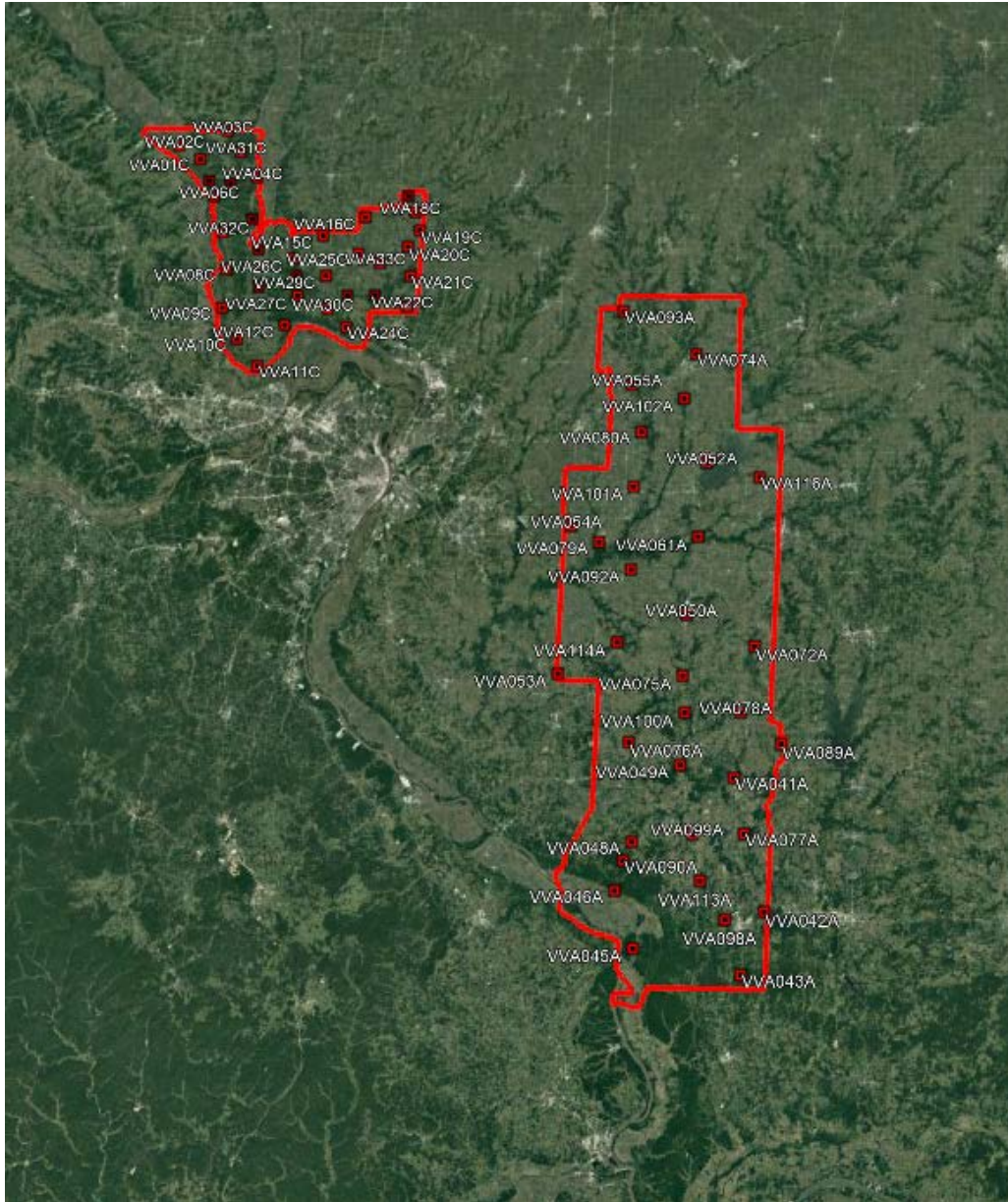


Figure 24: Location of USGS_IL_SouthCentral_2_2021 VVA Checkpoints

VERTICAL ACCURACY TEST PROCEDURES

NVA (Non-vegetated Vertical Accuracy) is determined with check points located only in nonvegetated terrain, including open terrain (grass, dirt, sand, and/or rocks) and urban areas, where there is a very high probability that the LiDAR sensor will have detected the bare-earth ground surface and where random errors are expected to follow a normal error distribution. The NVA determines how well the calibrated LiDAR sensor performed. With a normal error distribution, the vertical accuracy at the 95% confidence level is computed as the vertical root mean square error (RMSEz) of the checkpoints x 1.9600. For the USGS_IL_SouthCentral_2_2021 project, vertical accuracy must be 19.6 cm (0.64 ft) or less based on an RMSEz of 10 cm (0.33 ft) x 1.9600. VVA (Vegetated Vertical Accuracy) is determined with all checkpoints in vegetated land cover categories, including tall grass, weeds, crops, brush and low trees, and fully forested areas, where there is a possibility that the LiDAR sensor and post-processing may yield elevation errors that do not follow a normal error distribution. VVA at the 95% confidence level equals the 95th percentile error for all checkpoints in all vegetated land cover categories combined. USGS_IL_SouthCentral_2_2021 Lidar project VVA standard is 29.4 cm (0.96 ft) based on the 95th percentile.

Quantitative Criteria	Measure of Acceptability
Non-Vegetated Vertical Accuracy (NVA) in open terrain and urban land cover categories using RMSEz *1.96	19.6 cm (based on RMSEz (10 cm)*1.96)
Vegetated Vertical Accuracy (VVA) in all vegetated land cover categories combined and at the 95 th Percentile error	29.4 cm (based on combined 95th percentile)

Table 10: Acceptance Criteria.

The primary QA/QC vertical accuracy testing steps used by ASI are summarized as follows:

1. Prairie Engineers surveyed QA/QC vertical checkpoints in accordance with the project's specifications.
2. Next, ASI interpolated the bare-earth LiDAR DTM to provide the z-value for every checkpoint.
3. ASI then computed the associated z-value differences between the interpolated z-value from the LiDAR data and the ground truth survey checkpoints and computed NVA, VVA, and other statistics.
4. The data were analyzed by ASI to assess the accuracy of the data. The review process examined the various accuracy parameters as defined by the scope of work. The overall descriptive statistics of each dataset were computed to assess any trends or anomalies. This report provides tables, graphs and figures to summarize and illustrate data quality.

VERTICAL ACCURACY RESULTS

The table below summarizes the tested vertical accuracy resulting from a comparison of the surveyed checkpoints to the elevation values present within the fully classified LiDAR LAS files.

Land Cover Category	# of Points	NVA – Non-vegetated Vertical Accuracy (95% confidence) Spec = 0.196 m	VVA – Vegetated Vertical Accuracy (95 th Percentile) spec = 0.294 m
NVA	88	0.084	
VVA	68		0.172

Table 11: Tested NVA and VVA.

HORIZONTAL ACCURACY TEST PROCEDURES

The Optech Galaxy Prime data set was produced to meet ASPRS “Positional Accuracy Standards for Digital Geospatial Data” (2014) for a 32.72 (cm) RMSE_x / RMSE_y Horizontal Accuracy Class which equates to Positional Horizontal Accuracy = +/- 64.13 cm at a 95% confidence level.

Breakline Production methodology

MicroStation, in conjunction with TerraSolid’s TerraScan and TerraModeler was utilized for the collection of hydrologic breaklines, which occurred independently of manual edit. Collection was done using 2D information in the LAS format, intensity format, and ground surface. Breaklines are developed to the limit of the defined project boundary. Breaklines are in the same coordinate reference system and unit of measure as the LiDAR point delivery. Hydrologic water-surface edges are set at or just below the immediately surrounding terrain. Breaklines are developed to the limit of the project boundary.

Breakline Qualitative Assessment

Completeness and horizontal placement is verified through visual review against LiDAR intensity imagery, and bare earth surface. Breakline features are check for connectivity of features, enforced monotonicity on linear hydrographic breaklines, and flatness on water bodies.

After all corrections and edits to the breakline features, the breaklines are imported into the final GDB and verified for correct formatting.

Feature Definition

Inland Streams and Rivers

Streams and Rivers with a nominal width of 30 meters (100 feet), were collected to best fit the shoreline by using information in the LAS format; intensity format, ground surface TIN, and sometimes “quick guide” contours. Streams and rivers do not break at bridges, but they are closed ended breaks at culvert locations. Steams and Rivers breaklines have been delivered in PolylineZ format in the final GDB.

Inland Ponds and Lakes

Inland ponds and lakes of 2 acres (86,111 square feet/ ~350'/~106 meter diameter for a round pond) or greater were collected. Inland pond and Lakes were collected to best fit the shoreline by using information in the LAS format; intensity format, ground surface TIN, and sometimes "quick guide" contours. Inland pond and Lakes Breaklines have been delivered in PolygonZ format in the final GDB.

Islands

Permanent island 4046m² (1 acre) or larger were delineated within all water bodies. Breaklines have been delivered in PolygonZ format in the final GDB

Bridge Breaklines

Breaklines were placed across the bottom of the bridge embankment when triangulation occurred due to bridge deck classification. Breaklines have been delivered in PolylineZ format in the final GDB.

Intensity Imagery Production & Qualitative Assessment

INTENSITY PRODUCTION METHODOLOGY

ASI utilized MicroStation in conjunction with TerraSolid's TerraScan for Intensity production. Global Mapper was used to QC the products. ArcGIS was used finalize the Intensity's projection.

Intensity Images are created for each tile in the tiling schema. The Intensities are reviewed for any issues requiring corrections. Tiles are verified for final formatting and loaded into Global Mapper to ensure there are no missing, or corrupt tiles, and to check for seamlessness across tile boundaries.

INTENSITY QUALITATIVE ASSESSMENT

ASI performed a qualitative assessment of the Intensity deliverables to ensure that all tiled Intensity products were delivered with the proper extents, and contained proper referencing information. Intensity bounding values were manually set in RIPROCESS to utilize the full range of values available. Subcontractor intensities were linearly scaled to match the intensity of ASI's collection. During some reprocessing to improve the calibration, some points received maximum value intensity; however these were corrected to the original output values prior to delivery.

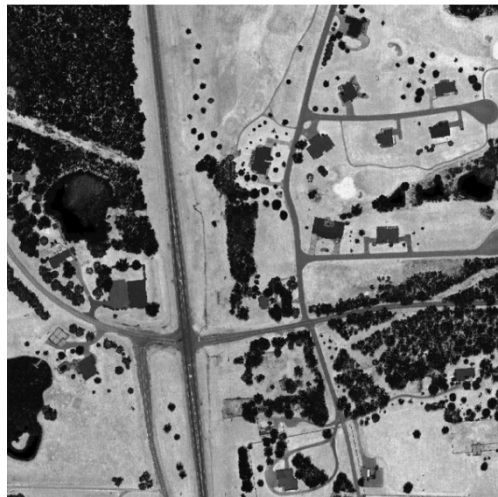


Figure 25: Intensity Image example.

DEM Production & Qualitative Assessment

DEM PRODUCTION METHODOLOGY

ASI utilized MicroStation Connect in conjunction with TerraSolid's TerraScan and TerraModeler for DEM production. Global Mapper version 21.0 was used to format and QC the products. GDAL version 2.4.0 was used to finalize the DEMs projection.

The final bare earth LiDAR points are used to create a terrain. The final 3D breaklines collected for the project are enforced in the terrain. The terrain is then converted to raster format using linear interpolation. DEMs are created for each tile in the tiling schema. The DEMs are reviewed for any issues requiring corrections, including remaining LiDAR ground misclassification, erroneous breakline elevations, poor hydro flattening, and processing artifacts. Tiles are verified for final formatting and loaded into Global Mapper to ensure there are no missing, or corrupt tiles, and to check for seamlessness across tile boundaries.

DEM QUALITATIVE ASSESSMENT

ASI performed a qualitative assessment of the bare earth DEM deliverables to ensure that all tiled DEM products were delivered with the proper extents, were free of processing artifacts, and contained proper referencing information.

The image below shows an example of a bare earth DEM.

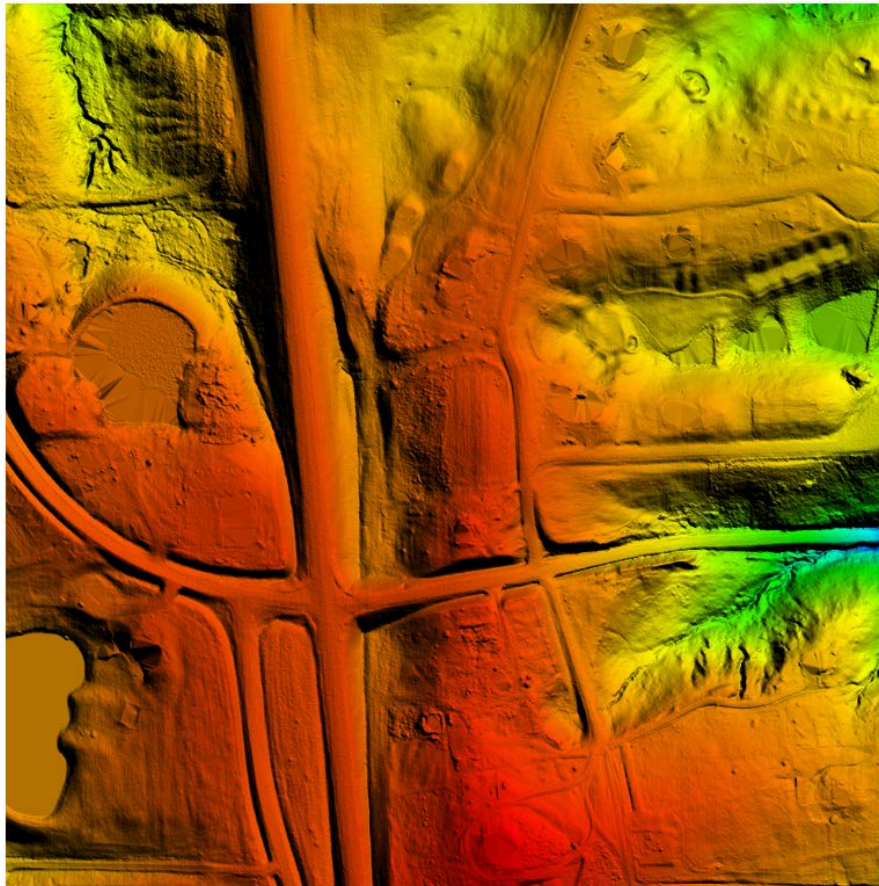


Figure 26: IL South Central project bare earth DEM

DEM VERTICAL ACCURACY RESULTS

The same 156 checkpoints that were used to test the vertical accuracy of the LIDAR were used to validate the vertical accuracy of the final DEM products as well. Accuracy results may vary between the source LiDAR and final DEM deliverable. DEMs are created by averaging several LiDAR points within each pixel which may result in slightly different elevation values at each survey checkpoint when compared to the source LAS. The DEM pixel does not average several LiDAR point's together, it interpolates (linearly) between two or three points to derive an elevation value. The vertical accuracy of the DEM is tested by extracting the elevation of the pixel that contains the x/y coordinates of the checkpoint and comparing these DEM elevations to the survey elevations.

The table below; summarizes the tested vertical accuracy result from a comparison of surveyed checkpoint to the elevation values present within the final DEM dataset.

Land Cover Category	# of Points	NVA – Non-vegetated Vertical Accuracy (RMSEz x 1.960)	VVA – Vegetated Vertical Accuracy (95 th percentile)
NVA	88	0.072	
VVA	68		0.203

Table 12: DEM vertical accuracy summary

DEM datasets were tested to meet ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014) for a 10 cm RMSEz Vertical Accuracy Class. Actual NVA accuracy was found to be RMSEz = 0.037 meters with a 0.072 meters accuracy at 95 % confidence level. Actual VVA accuracy tested 0.203meters using checkpoints located in forested land cover categories at the 95th percentile, derived according to ASPRS guidelines, tested against the DEM. Based on the vertical accuracy testing conducted by ASI, the DEM dataset for the USGS_IL_SouthCentral_2_2021 project satisfies the project's pre-defined vertical accuracy criteria.

Appendix A: List of Delivered LAS File

2079_9930	2095_9910	2105_9810	2111_9910
2079_9950	2095_9930	2105_9830	2111_9930
2079_9970	2095_9950	2105_9850	2111_9950
2081_9910	2095_9970	2105_9870	2111_9970
2081_9930	2097_9790	2105_9890	2113_9650
2081_9950	2097_9810	2105_9910	2113_9670
2081_9970	2097_9830	2105_9930	2113_9690
2083_9890	2097_9850	2105_9950	2113_9710
2083_9910	2097_9870	2105_9970	2113_9730
2083_9930	2097_9890	2107_9710	2113_9750
2083_9950	2097_9910	2107_9730	2113_9770
2083_9970	2097_9930	2107_9750	2113_9790
2085_9890	2097_9950	2107_9770	2113_9810
2085_9910	2097_9970	2107_9790	2113_9830
2085_9930	2099_9790	2107_9810	2113_9850
2085_9950	2099_9810	2107_9830	2113_9870
2085_9970	2099_9830	2107_9850	2113_9890
2087_9890	2099_9850	2107_9870	2113_9910
2087_9910	2099_9870	2107_9890	2113_9930
2087_9930	2099_9890	2107_9910	2113_9950
2087_9950	2099_9910	2107_9930	2113_9970
2087_9970	2099_9930	2107_9950	2115_9650
2089_9850	2099_9950	2107_9970	2115_9670
2089_9870	2099_9970	2109_9690	2115_9690
2089_9890	2101_9770	2109_9710	2115_9710
2089_9910	2101_9790	2109_9730	2115_9730
2089_9930	2101_9810	2109_9750	2115_9750
2089_9950	2101_9830	2109_9770	2115_9770
2089_9970	2101_9850	2109_9790	2115_9790
2091_9830	2101_9870	2109_9810	2115_9810
2091_9850	2101_9890	2109_9830	2115_9830
2091_9870	2101_9910	2109_9850	2115_9850
2091_9890	2101_9930	2109_9870	2115_9870
2091_9910	2101_9950	2109_9890	2115_9890
2091_9930	2101_9970	2109_9910	2115_9910
2091_9950	2103_9750	2109_9930	2115_9930
2091_9970	2103_9770	2109_9950	2115_9950
2093_9830	2103_9790	2109_9970	2115_9970
2093_9850	2103_9810	2111_9670	2117_9630
2093_9870	2103_9830	2111_9690	2117_9650
2093_9890	2103_9850	2111_9710	2117_9670
2093_9910	2103_9870	2111_9730	2117_9690
2093_9930	2103_9890	2111_9750	2117_9710
2093_9950	2103_9910	2111_9770	2117_9730
2093_9970	2103_9930	2111_9790	2117_9750
2095_9810	2103_9950	2111_9810	2117_9770
2095_9830	2103_9970	2111_9830	2117_9790
2095_9850	2105_9750	2111_9850	2117_9810
2095_9870	2105_9770	2111_9870	2117_9830
2095_9890	2105_9790	2111_9890	2117_9850

2117_9870	2123_9690	2127_9790	2131_9790
2117_9890	2123_9710	2127_9810	2131_9810
2117_9910	2123_9730	2127_9830	2131_9830
2117_9930	2123_9750	2127_9850	2131_9850
2117_9950	2123_9770	2127_9870	2131_9870
2117_9970	2123_9790	2127_9890	2131_9890
2119_9610	2123_9810	2127_9910	2131_9910
2119_9630	2123_9830	2127_9930	2131_9930
2119_9650	2123_9850	2127_9950	2131_9950
2119_9670	2123_9870	2129_9470	2133_9450
2119_9690	2123_9890	2129_9490	2133_9470
2119_9710	2123_9910	2129_9510	2133_9490
2119_9730	2123_9930	2129_9530	2133_9510
2119_9750	2123_9950	2129_9550	2133_9530
2119_9770	2125_9530	2129_9570	2133_9550
2119_9790	2125_9550	2129_9590	2133_9570
2119_9810	2125_9570	2129_9610	2133_9590
2119_9830	2125_9590	2129_9630	2133_9610
2119_9850	2125_9610	2129_9650	2133_9630
2119_9870	2125_9630	2129_9670	2133_9650
2119_9890	2125_9650	2129_9690	2133_9670
2119_9910	2125_9670	2129_9710	2133_9690
2119_9930	2125_9690	2129_9730	2133_9710
2119_9950	2125_9710	2129_9750	2133_9730
2119_9970	2125_9730	2129_9770	2133_9750
2121_9590	2125_9750	2129_9790	2133_9770
2121_9610	2125_9770	2129_9810	2133_9790
2121_9630	2125_9790	2129_9830	2133_9810
2121_9650	2125_9810	2129_9850	2133_9830
2121_9670	2125_9830	2129_9870	2133_9850
2121_9690	2125_9850	2129_9890	2133_9870
2121_9710	2125_9870	2129_9910	2133_9890
2121_9730	2125_9890	2129_9930	2133_9910
2121_9750	2125_9910	2129_9950	2133_9930
2121_9770	2125_9930	2131_9450	2133_9950
2121_9790	2125_9950	2131_9470	2135_9450
2121_9810	2127_9490	2131_9490	2135_9470
2121_9830	2127_9510	2131_9510	2135_9490
2121_9850	2127_9530	2131_9530	2135_9510
2121_9870	2127_9550	2131_9550	2135_9530
2121_9890	2127_9570	2131_9570	2135_9550
2121_9910	2127_9590	2131_9590	2135_9570
2121_9930	2127_9610	2131_9610	2135_9590
2121_9950	2127_9630	2131_9630	2135_9610
2121_9970	2127_9650	2131_9650	2135_9630
2123_9570	2127_9670	2131_9670	2135_9650
2123_9590	2127_9690	2131_9690	2135_9670
2123_9610	2127_9710	2131_9710	2135_9690
2123_9630	2127_9730	2131_9730	2135_9710
2123_9650	2127_9750	2131_9750	2135_9730
2123_9670	2127_9770	2131_9770	2135_9750

2135_9770	2139_9530	2141_9670	2143_9590
2135_9790	2139_9550	2141_9690	2143_9610
2135_9810	2139_9570	2141_9710	2143_9630
2135_9830	2139_9590	2141_9730	2143_9650
2135_9850	2139_9610	2141_9750	2143_9670
2135_9870	2139_9630	2141_9770	2143_9690
2135_9890	2139_9650	2141_9790	2143_9710
2135_9910	2139_9670	2141_9810	2143_9730
2135_9930	2139_9690	2141_9830	2143_9750
2135_9950	2139_9710	2141_9850	2143_9770
2137_9390	2139_9730	2141_9870	2143_9790
2137_9410	2139_9750	2141_9890	2143_9810
2137_9430	2139_9770	2141_9910	2143_9830
2137_9450	2139_9790	2141_9930	2143_9850
2137_9470	2139_9810	2141_9950	2143_9870
2137_9490	2139_9830	2143_8610	2143_9890
2137_9510	2139_9850	2143_8630	2143_9910
2137_9530	2139_9870	2143_8650	2143_9930
2137_9550	2139_9890	2143_8670	2143_9950
2137_9570	2139_9910	2143_8690	2145_8570
2137_9590	2139_9930	2143_8710	2145_8590
2137_9610	2139_9950	2143_8730	2145_8610
2137_9630	2141_8670	2143_9010	2145_8630
2137_9650	2141_8690	2143_9030	2145_8650
2137_9670	2141_8710	2143_9050	2145_8670
2137_9690	2141_9150	2143_9070	2145_8690
2137_9710	2141_9170	2143_9090	2145_8710
2137_9730	2141_9190	2143_9110	2145_8730
2137_9750	2141_9210	2143_9130	2145_8750
2137_9770	2141_9230	2143_9150	2145_8770
2137_9790	2141_9250	2143_9170	2145_8790
2137_9810	2141_9270	2143_9190	2145_8970
2137_9830	2141_9290	2143_9210	2145_8990
2137_9850	2141_9310	2143_9230	2145_9010
2137_9870	2141_9330	2143_9250	2145_9030
2137_9890	2141_9350	2143_9270	2145_9050
2137_9910	2141_9370	2143_9290	2145_9070
2137_9930	2141_9390	2143_9310	2145_9090
2137_9950	2141_9410	2143_9330	2145_9110
2139_9290	2141_9430	2143_9350	2145_9130
2139_9310	2141_9450	2143_9370	2145_9150
2139_9330	2141_9470	2143_9390	2145_9170
2139_9350	2141_9490	2143_9410	2145_9190
2139_9370	2141_9510	2143_9430	2145_9210
2139_9390	2141_9530	2143_9450	2145_9230
2139_9410	2141_9550	2143_9470	2145_9250
2139_9430	2141_9570	2143_9490	2145_9270
2139_9450	2141_9590	2143_9510	2145_9290
2139_9470	2141_9610	2143_9530	2145_9310
2139_9490	2141_9630	2143_9550	2145_9330
2139_9510	2141_9650	2143_9570	2145_9350

2145_9370	2147_9070	2149_8610	2149_9670
2145_9390	2147_9090	2149_8630	2149_9690
2145_9410	2147_9110	2149_8650	2149_9710
2145_9430	2147_9130	2149_8670	2149_9730
2145_9450	2147_9150	2149_8690	2149_9750
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2145_9490	2147_9190	2149_8730	2149_9790
2145_9510	2147_9210	2149_8750	2149_9810
2145_9530	2147_9230	2149_8770	2149_9830
2145_9550	2147_9250	2149_8790	2149_9850
2145_9570	2147_9270	2149_8810	2149_9870
2145_9590	2147_9290	2149_8830	2149_9890
2145_9610	2147_9310	2149_8890	2149_9910
2145_9630	2147_9330	2149_8910	2149_9930
2145_9650	2147_9350	2149_8930	2149_9950
2145_9670	2147_9370	2149_8950	2151_8350
2145_9690	2147_9390	2149_8970	2151_8370
2145_9710	2147_9410	2149_8990	2151_8390
2145_9730	2147_9430	2149_9010	2151_8410
2145_9750	2147_9450	2149_9030	2151_8430
2145_9770	2147_9470	2149_9050	2151_8450
2145_9790	2147_9490	2149_9070	2151_8470
2145_9810	2147_9510	2149_9090	2151_8490
2145_9830	2147_9530	2149_9110	2151_8510
2145_9850	2147_9550	2149_9130	2151_8530
2145_9870	2147_9570	2149_9150	2151_8550
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2145_9930	2147_9630	2149_9210	2151_8610
2145_9950	2147_9650	2149_9230	2151_8630
2147_8530	2147_9670	2149_9250	2151_8650
2147_8550	2147_9690	2149_9270	2151_8670
2147_8570	2147_9710	2149_9290	2151_8690
2147_8590	2147_9730	2149_9310	2151_8710
2147_8610	2147_9750	2149_9330	2151_8730
2147_8630	2147_9770	2149_9350	2151_8750
2147_8650	2147_9790	2149_9370	2151_8770
2147_8670	2147_9810	2149_9390	2151_8790
2147_8690	2147_9830	2149_9410	2151_8810
2147_8710	2147_9850	2149_9430	2151_8830
2147_8730	2147_9870	2149_9450	2151_8850
2147_8750	2147_9890	2149_9470	2151_8870
2147_8770	2147_9910	2149_9490	2151_8890
2147_8790	2147_9930	2149_9510	2151_8910
2147_8810	2147_9950	2149_9530	2151_8930
2147_8950	2149_8490	2149_9550	2151_8950
2147_8970	2149_8510	2149_9570	2151_8970
2147_8990	2149_8530	2149_9590	2151_8990
2147_9010	2149_8550	2149_9610	2151_9010
2147_9030	2149_8570	2149_9630	2151_9030
2147_9050	2149_8590	2149_9650	2151_9050

2151_9070	2153_8410	2153_9430	2155_8710
2151_9090	2153_8430	2153_9450	2155_8730
2151_9110	2153_8450	2153_9470	2155_8750
2151_9130	2153_8470	2153_9490	2155_8770
2151_9150	2153_8490	2153_9510	2155_8790
2151_9170	2153_8510	2153_9530	2155_8810
2151_9190	2153_8530	2153_9550	2155_8830
2151_9210	2153_8550	2153_9570	2155_8850
2151_9230	2153_8570	2153_9590	2155_8870
2151_9250	2153_8590	2153_9610	2155_8890
2151_9270	2153_8610	2153_9630	2155_8910
2151_9290	2153_8630	2153_9650	2155_8930
2151_9310	2153_8650	2153_9670	2155_8950
2151_9330	2153_8670	2153_9690	2155_8970
2151_9350	2153_8690	2153_9710	2155_8990
2151_9370	2153_8710	2153_9730	2155_9010
2151_9390	2153_8730	2153_9750	2155_9030
2151_9410	2153_8750	2153_9770	2155_9050
2151_9430	2153_8770	2153_9790	2155_9070
2151_9450	2153_8790	2153_9810	2155_9090
2151_9470	2153_8810	2153_9830	2155_9110
2151_9490	2153_8830	2153_9850	2155_9130
2151_9510	2153_8850	2153_9870	2155_9150
2151_9530	2153_8870	2153_9890	2155_9170
2151_9550	2153_8890	2153_9910	2155_9190
2151_9570	2153_8910	2153_9930	2155_9210
2151_9590	2153_8930	2153_9950	2155_9230
2151_9610	2153_8950	2155_8230	2155_9250
2151_9630	2153_8970	2155_8250	2155_9270
2151_9650	2153_8990	2155_8270	2155_9290
2151_9670	2153_9010	2155_8290	2155_9310
2151_9690	2153_9030	2155_8310	2155_9330
2151_9710	2153_9050	2155_8330	2155_9350
2151_9730	2153_9070	2155_8350	2155_9370
2151_9750	2153_9090	2155_8370	2155_9390
2151_9770	2153_9110	2155_8390	2155_9410
2151_9790	2153_9130	2155_8410	2155_9430
2151_9810	2153_9150	2155_8430	2155_9450
2151_9830	2153_9170	2155_8450	2155_9470
2151_9850	2153_9190	2155_8470	2155_9490
2151_9870	2153_9210	2155_8490	2155_9510
2151_9890	2153_9230	2155_8510	2155_9530
2151_9910	2153_9250	2155_8530	2155_9550
2151_9930	2153_9270	2155_8550	2155_9570
2151_9950	2153_9290	2155_8570	2155_9590
2153_8290	2153_9310	2155_8590	2155_9610
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2581_4170	2581_5190	2581_6210	2581_7230
2581_4190	2581_5210	2581_6230	2581_7250
2581_4210	2581_5230	2581_6250	2581_7270
2581_4230	2581_5250	2581_6270	2581_7290

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2581_7370	2583_4210	2583_5230	2583_6250
2581_7390	2583_4230	2583_5250	2583_6270
2581_7410	2583_4250	2583_5270	2583_6290
2581_7430	2583_4270	2583_5290	2583_6310
2581_7450	2583_4290	2583_5310	2583_6330
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2583_7270	2585_4110	2585_5130	2585_6150
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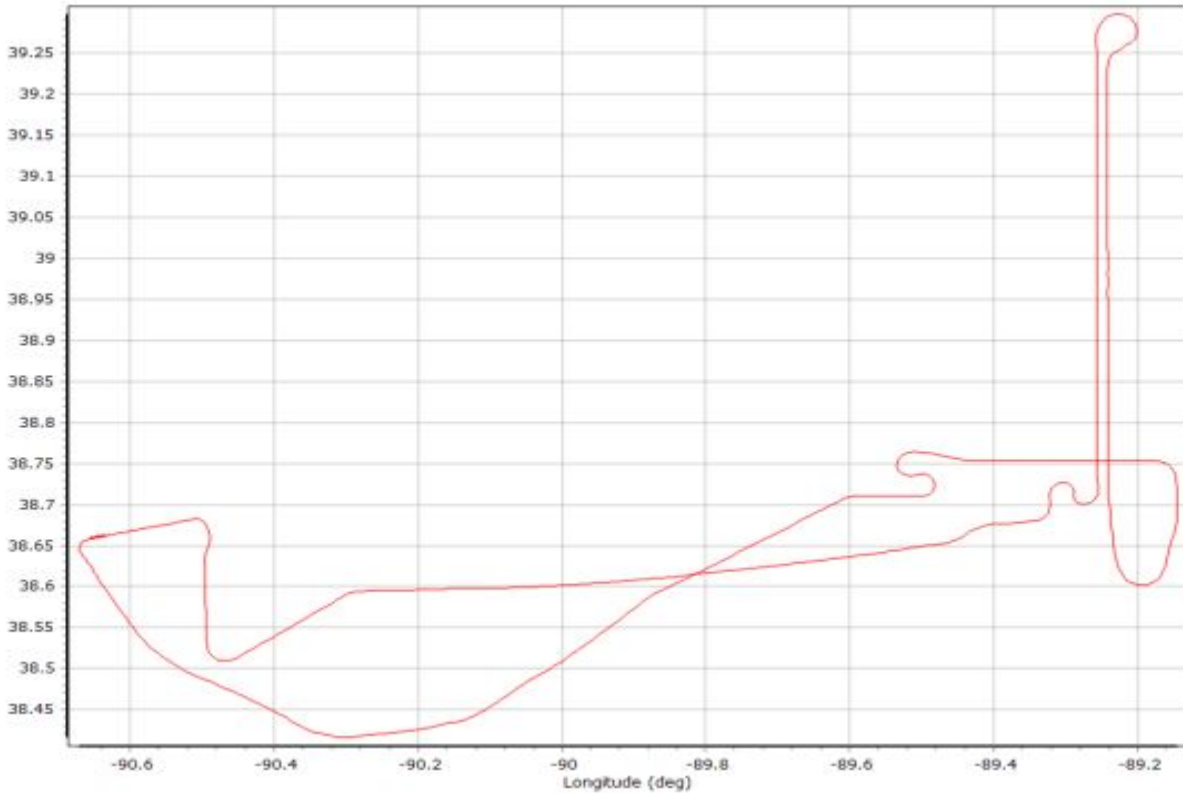
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**Appendix B: Aerial Surveys International, LLC Mission and Survtech Solutions
GPS and IMU Processing Reports.**

030621c386.docx QC Report - 7/05/2021 09:29:00

Smoothed Trajectory Information

Top View

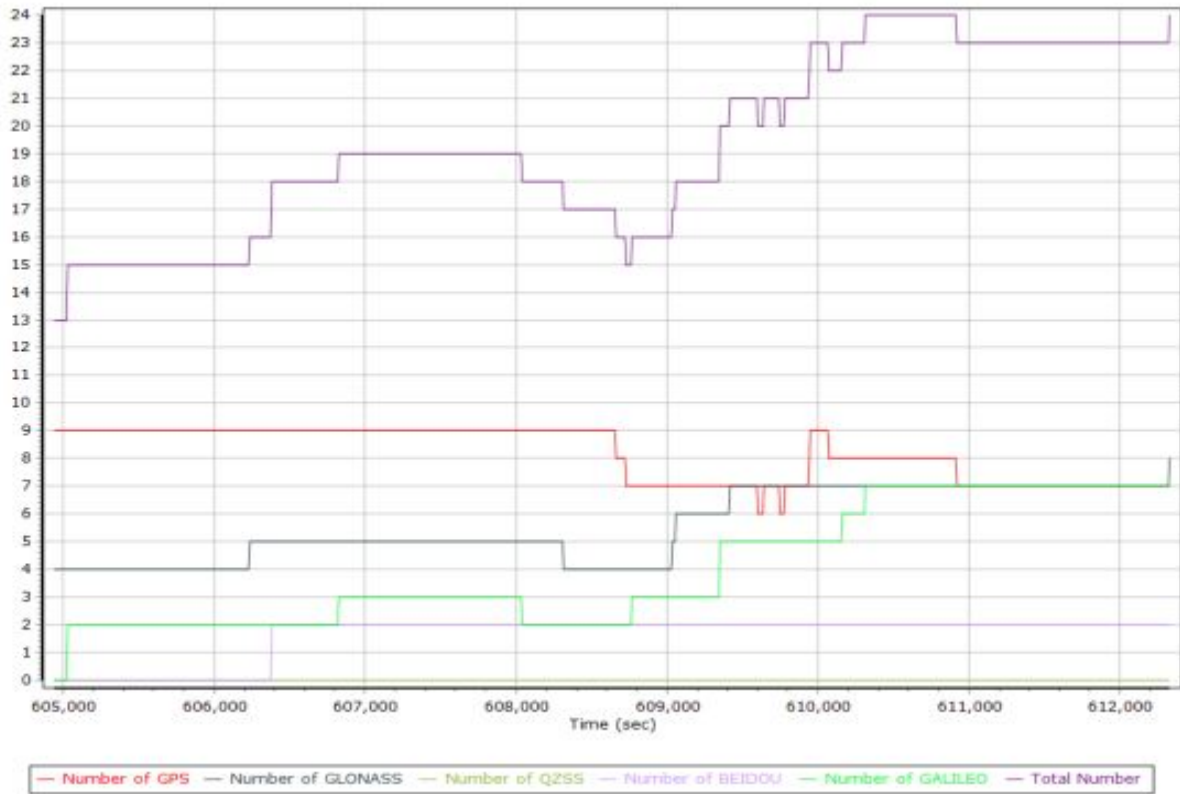


GNSS QC

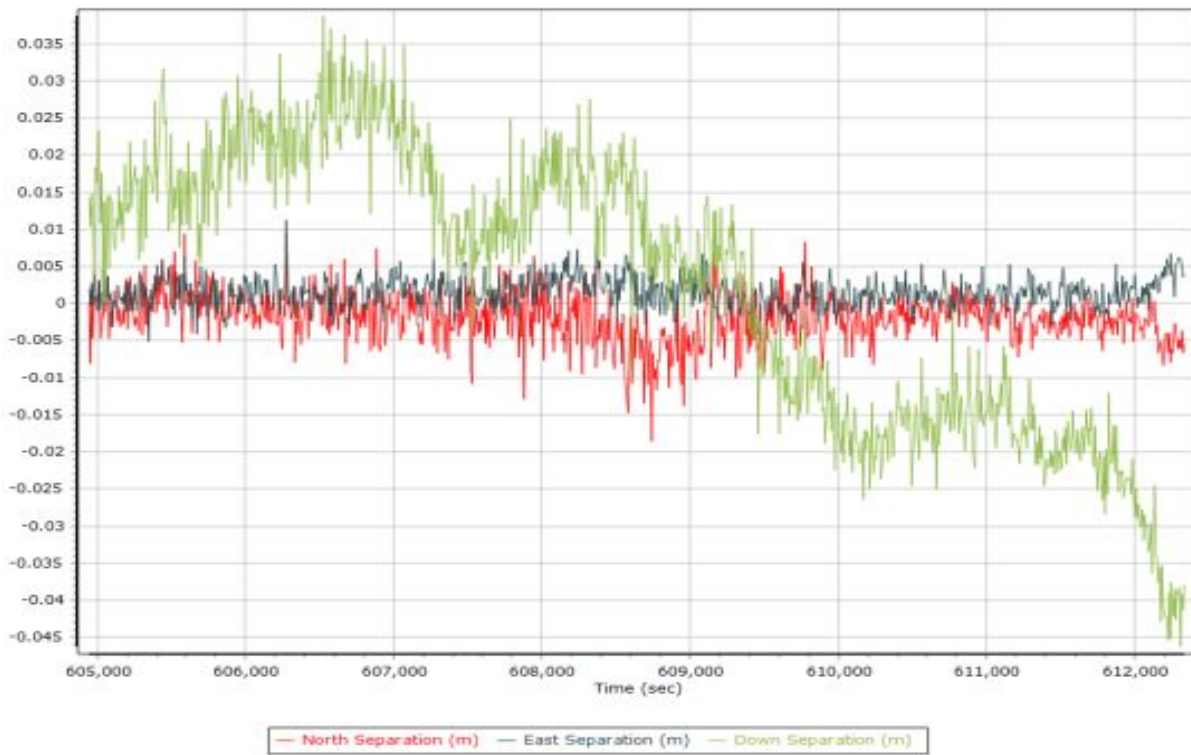
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	5	9	8
Number of GLONASS SV	0	8	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	2
Number of GALILEO SV	0	7	4
Total number of SV	10	24	19
PDOP	0.99	2.17	1.26
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	7731.00	0.00	0.00
Percentage	100.00	0.00	0.00

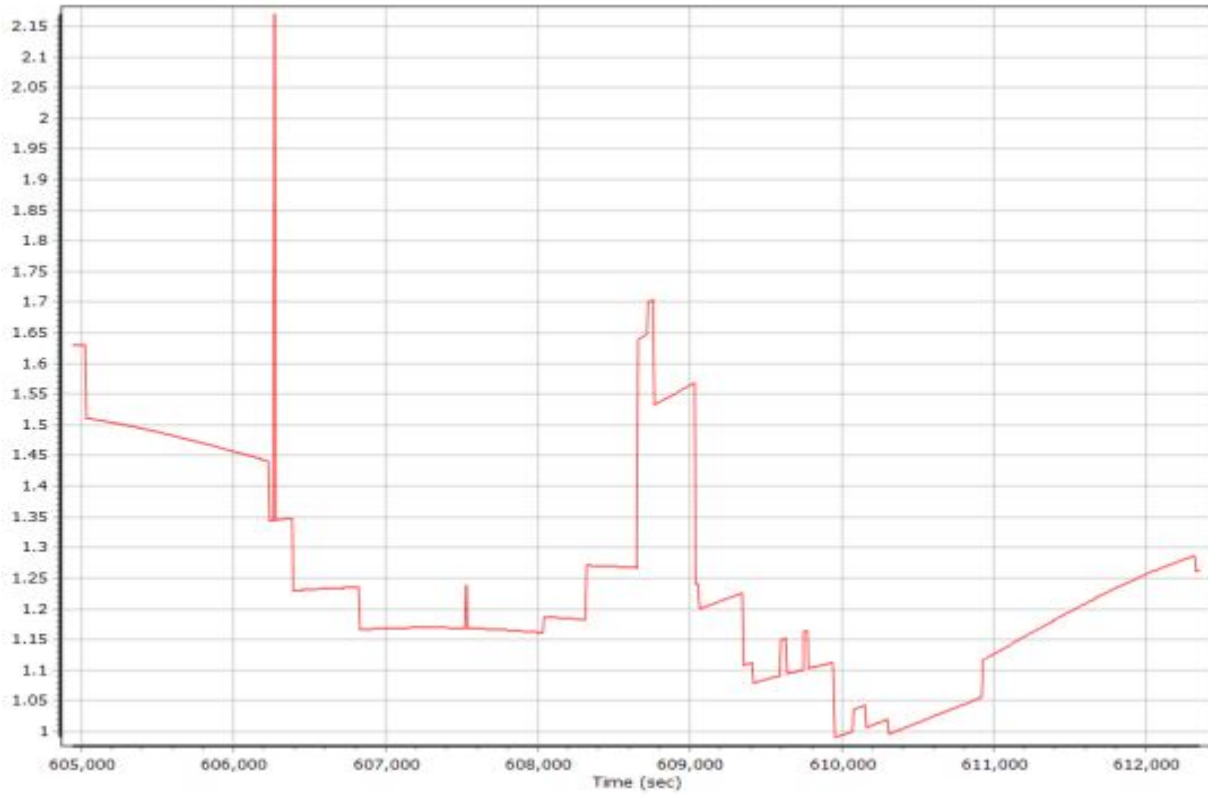
Number of Satellites



Forward/Reverse Separation

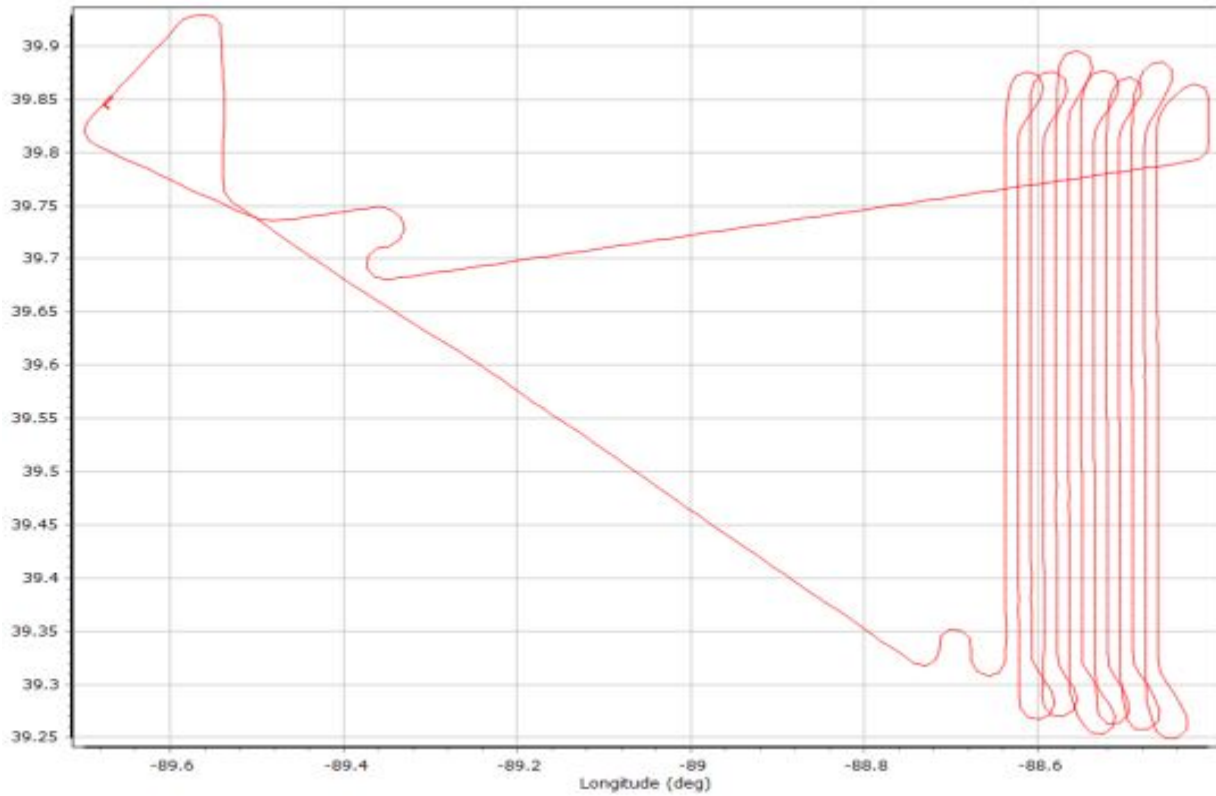


PDOP



030721a448.docx QC Report - 7/05/2021 09:32:20
Smoothed Trajectory Information

Top View



GNSS QC

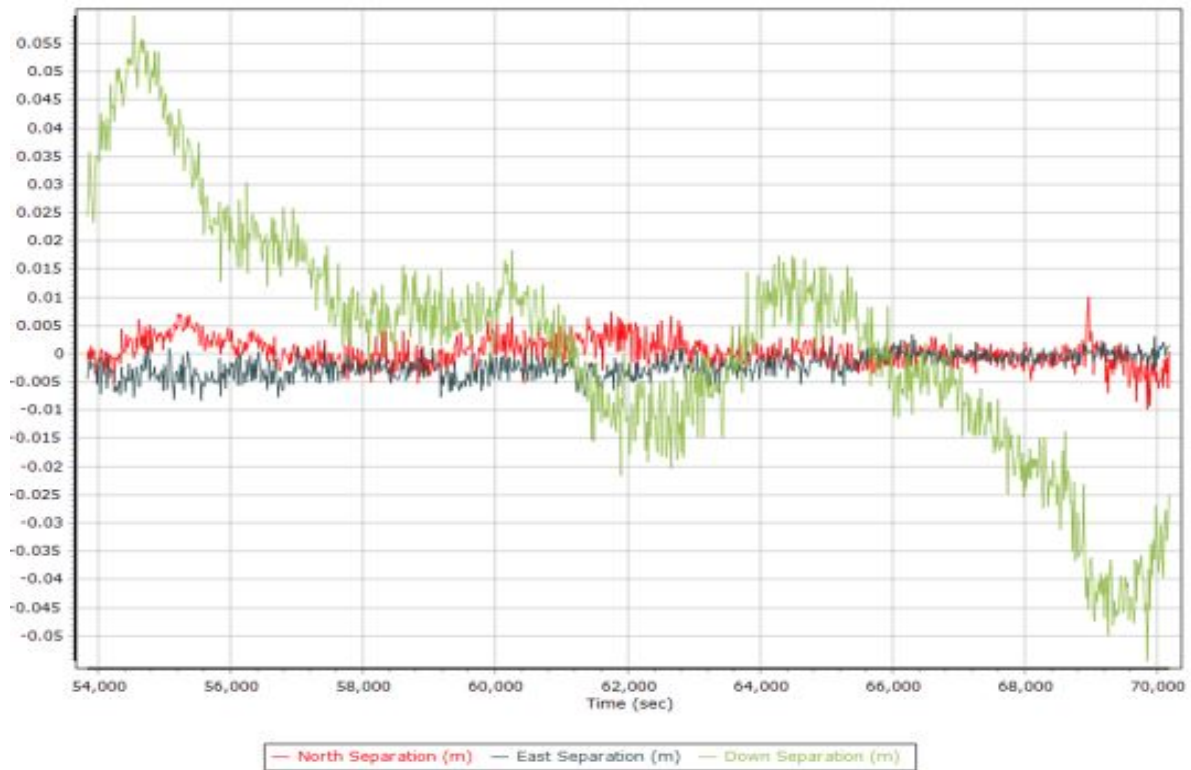
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	10	8
Number of GLONASS SV	3	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	9	7
Total number of SV	14	25	20
PDOP	1.06	2.33	1.20
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	16891.00	0.00	0.00
Percentage	100.00	0.00	0.00

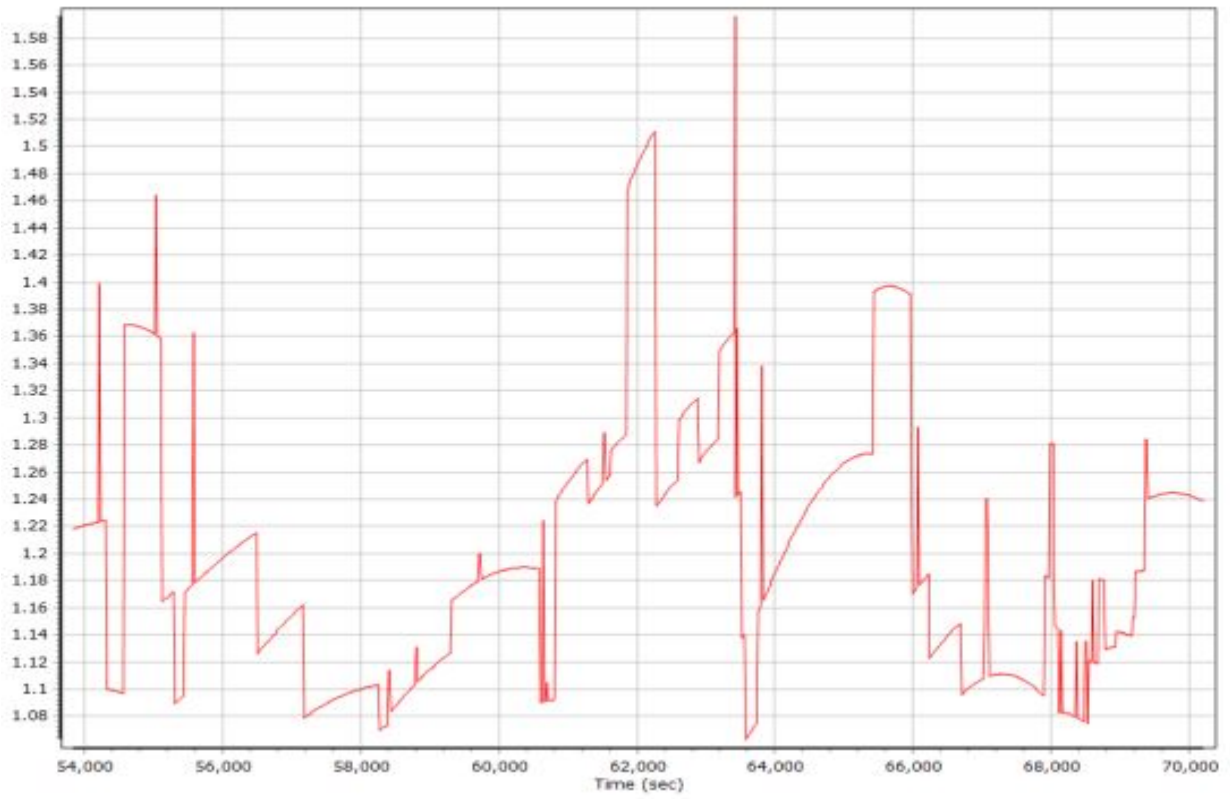
Number of Satellites



Forward/Reverse Separation



PDOP



030721b386.docx QC Report - 7/05/2021 09:28:33
Smoothed Trajectory Information

Top View

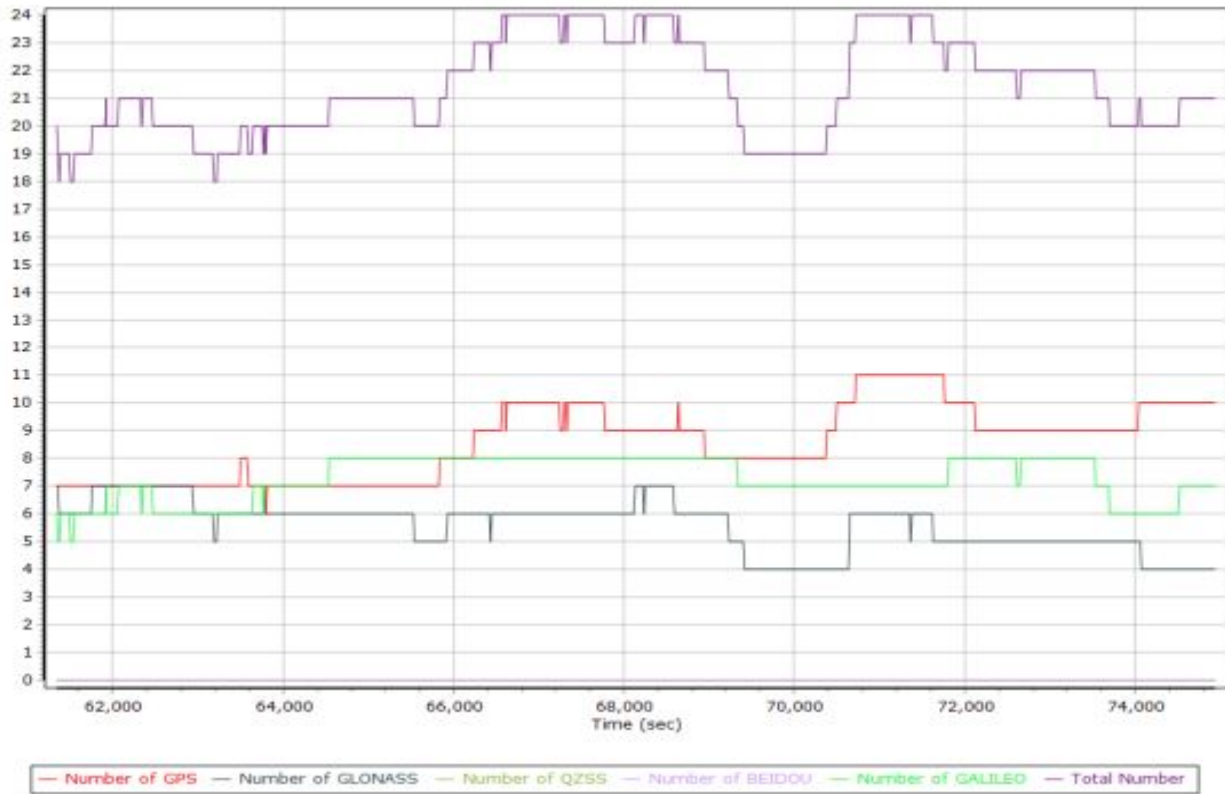


GNSS QC

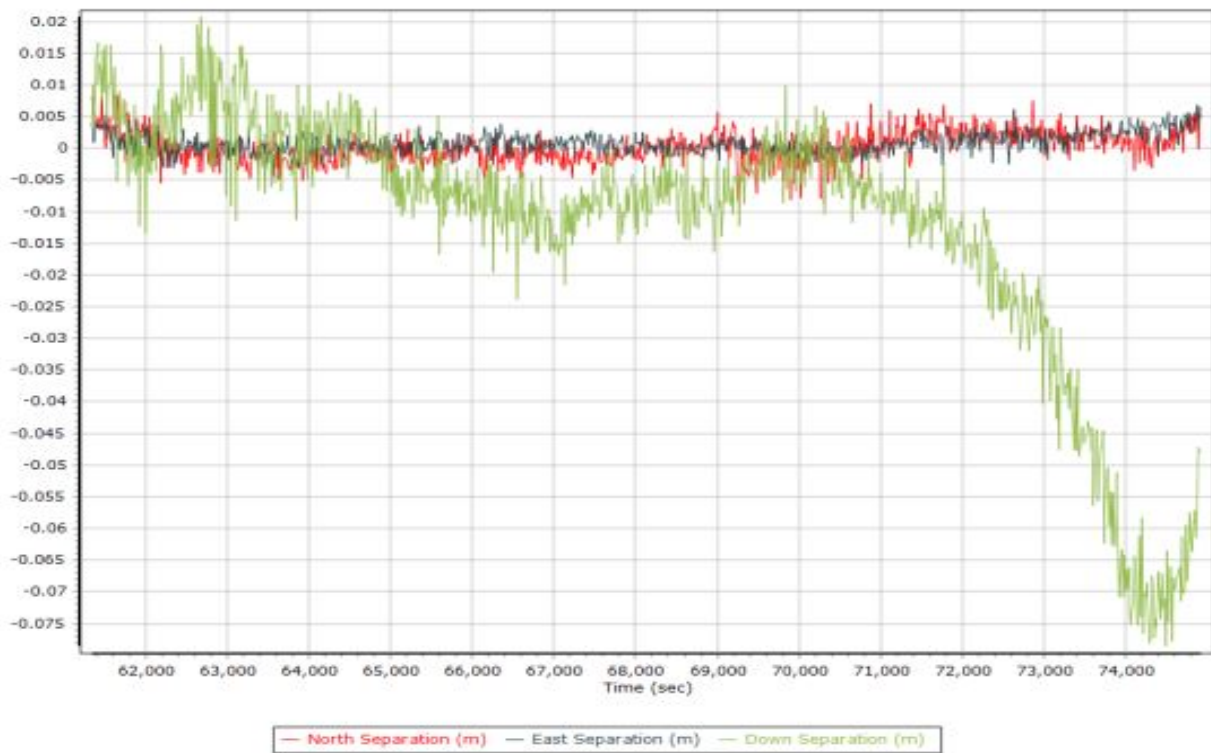
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	11	9
Number of GLONASS SV	4	7	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	5	8	7
Total number of SV	18	24	21
PDOP	1.00	1.56	1.20
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	13989.00	0.00	0.00
Percentage	100.00	0.00	0.00

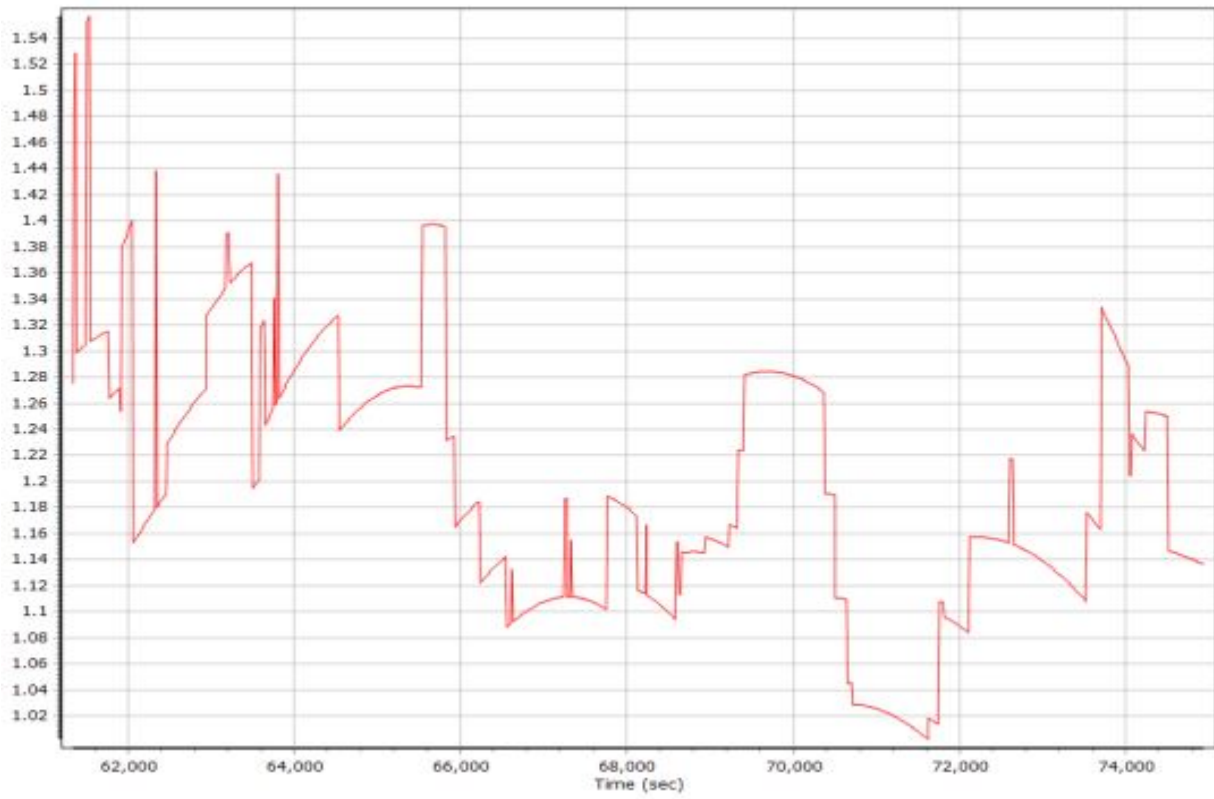
Number of Satellites



Forward/Reverse Separation



PDOP



030721b448.docx QC Report - 7/05/2021 09:34:44
Smoothed Trajectory Information

Top View



GNSS QC

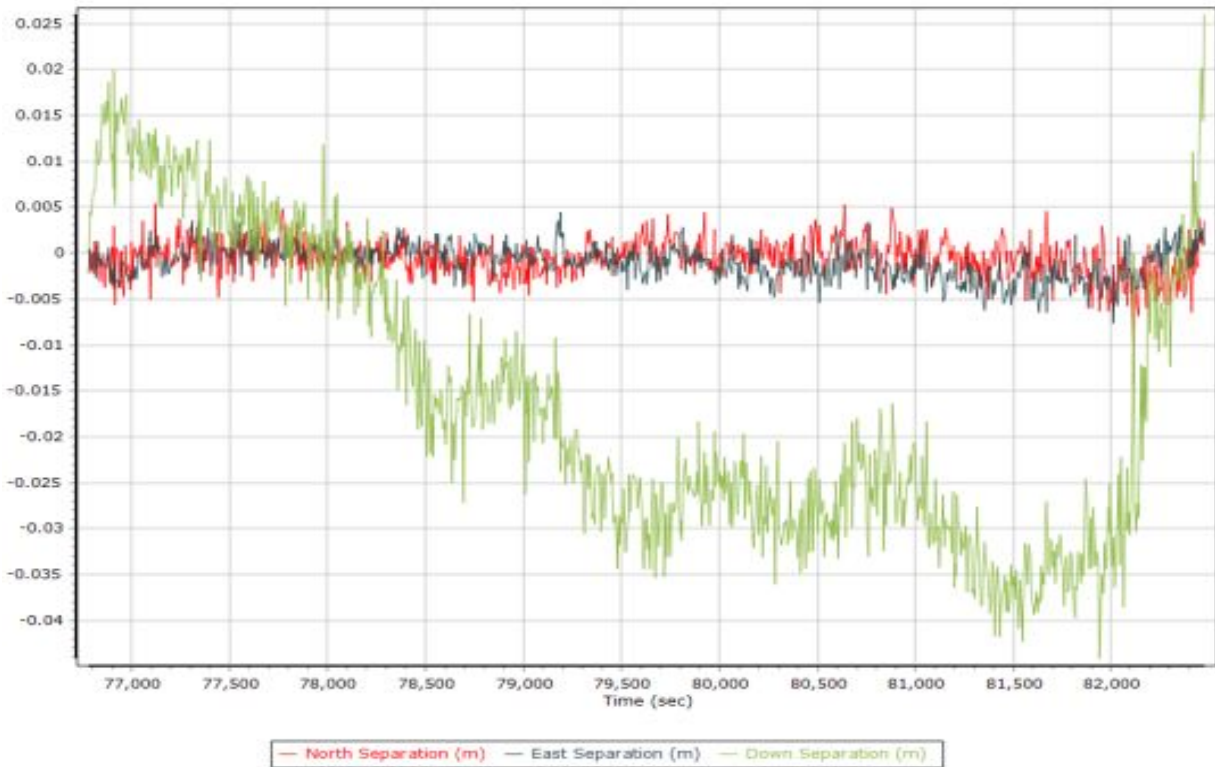
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	8	12	10
Number of GLONASS SV	3	4	4
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	6	6
Total number of SV	16	22	20
PDOP	1.02	1.80	1.18
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	6082.00	0.00	0.00
Percentage	100.00	0.00	0.00

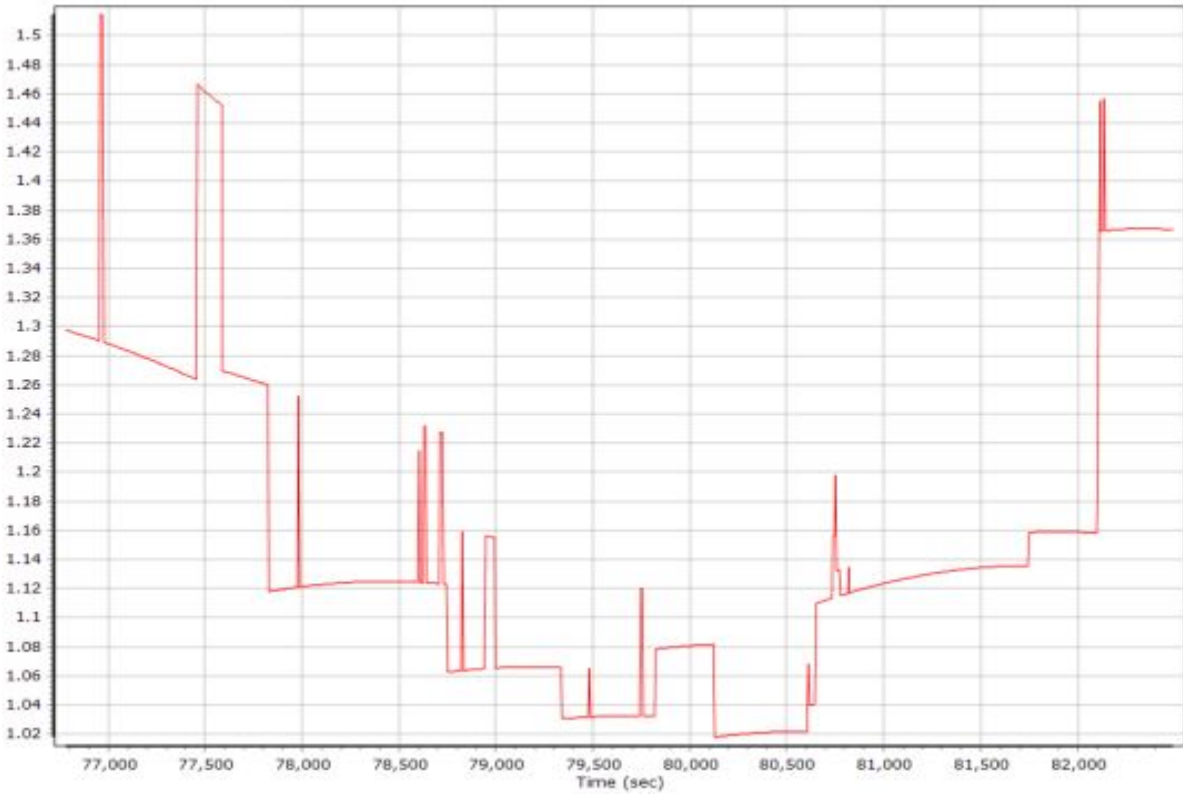
Number of Satellites



Forward/Reverse Separation

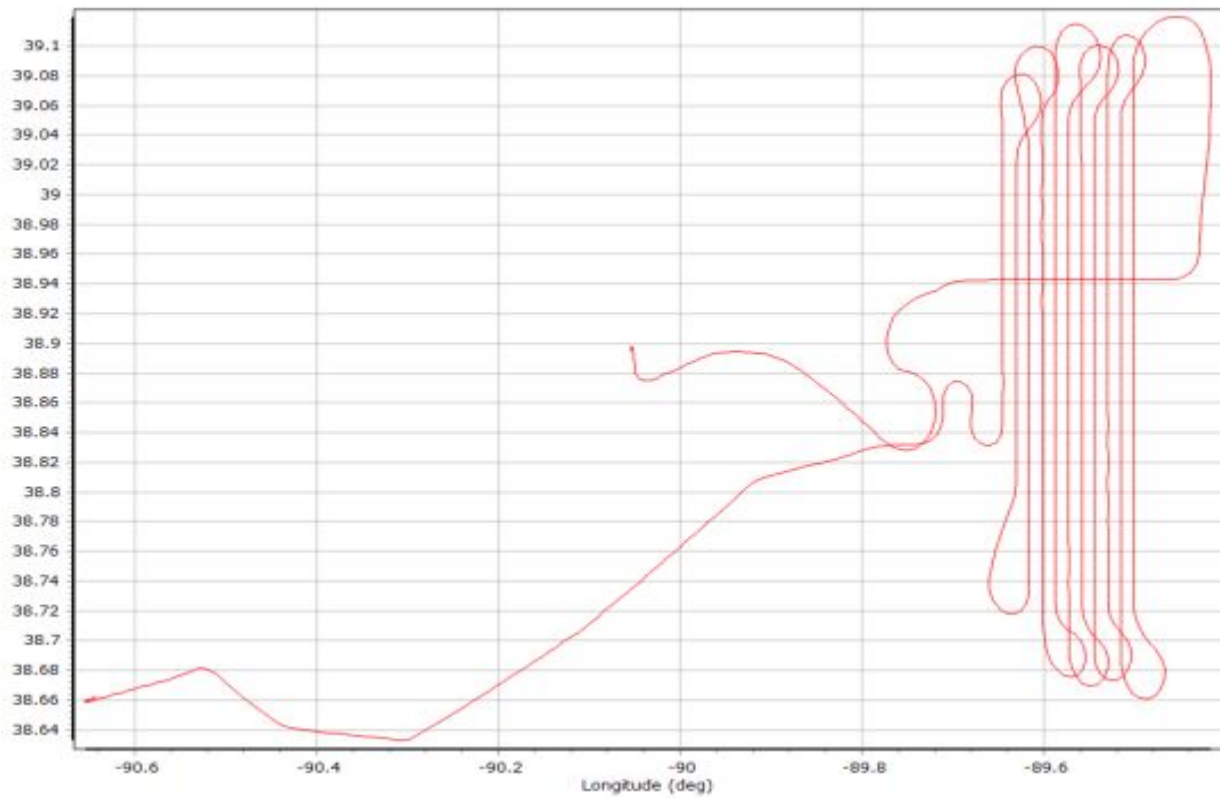


PDOP



030721c386.docx QC Report – 7/05/2021 09:25:03
Smoothed Trajectory Information

Top View

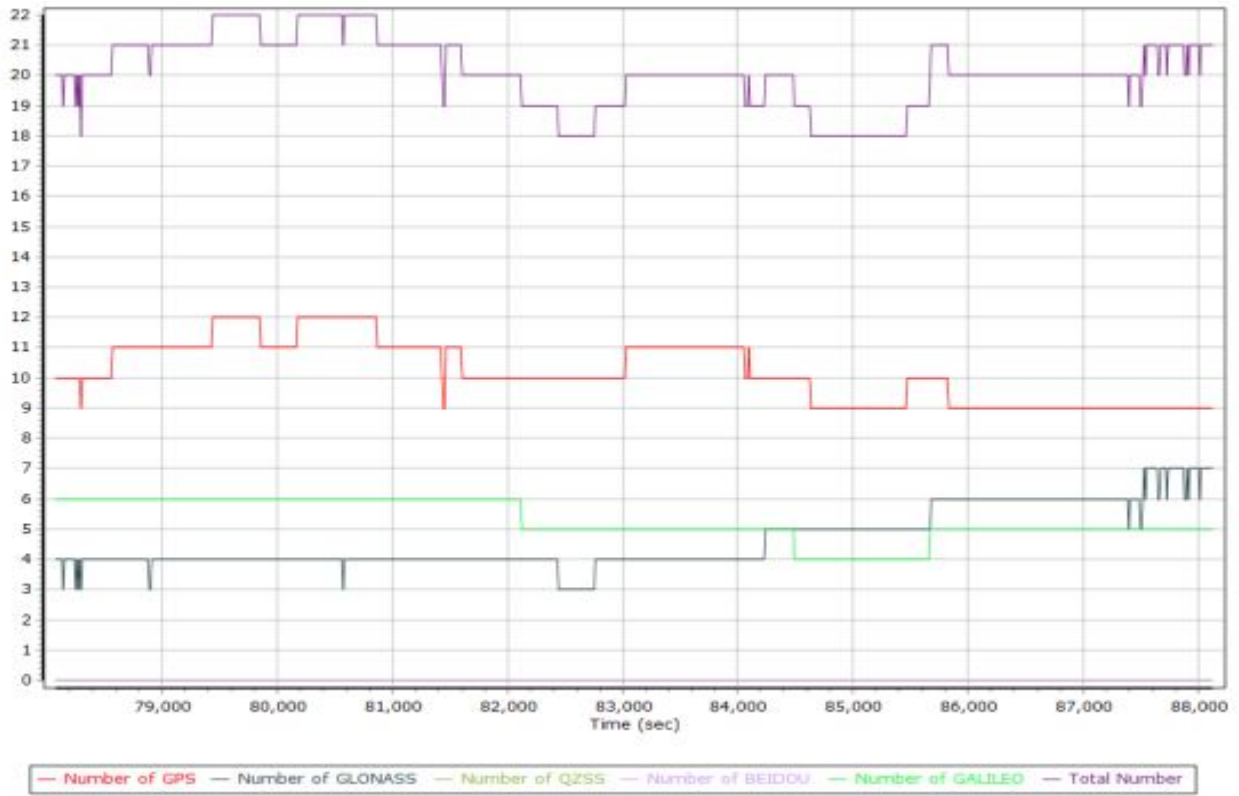


GNSS QC

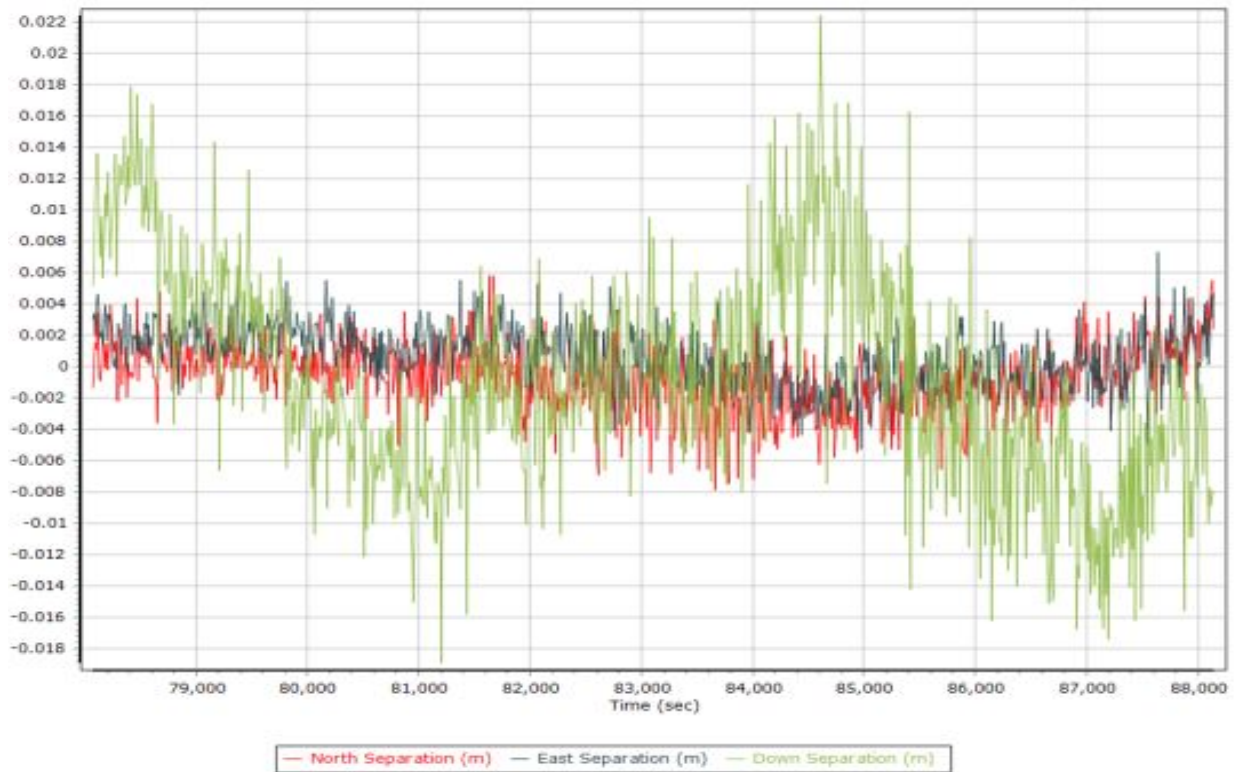
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	8	12	10
Number of GLONASS SV	0	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	6	5
Total number of SV	16	22	20
PDOP	1.02	1.45	1.17
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	10576.00	0.00	0.00
Percentage	100.00	0.00	0.00

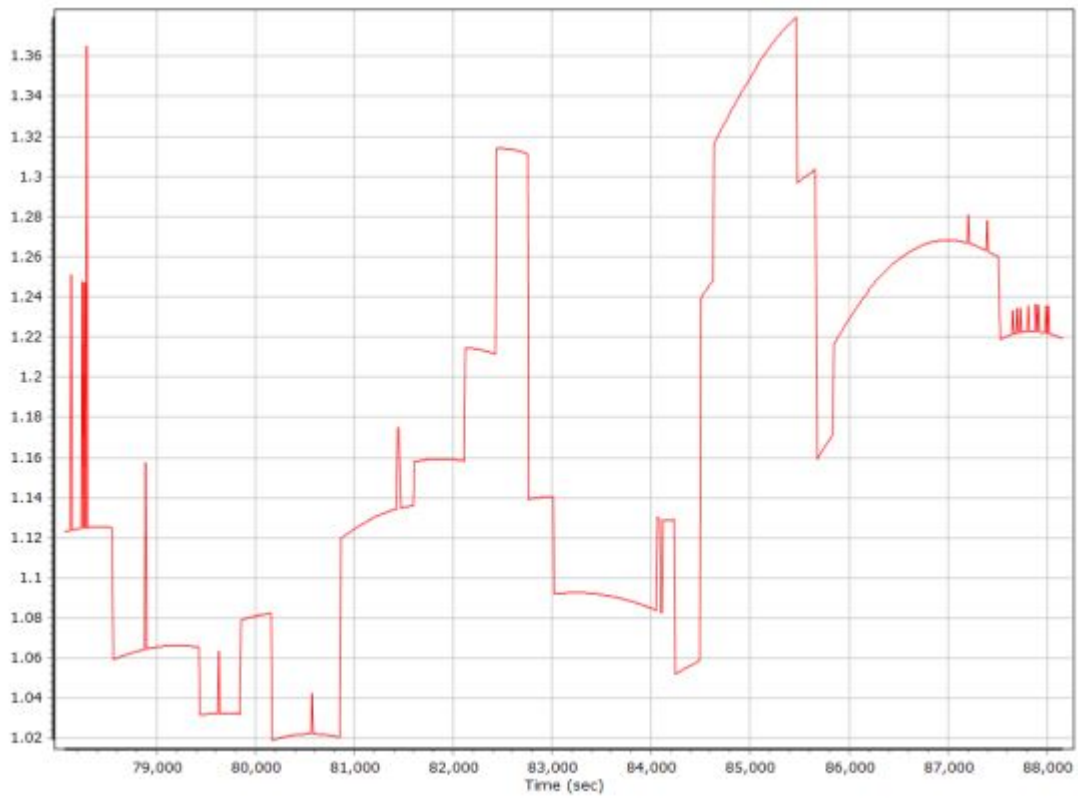
Number of Satellites



Forward/Reverse Separation

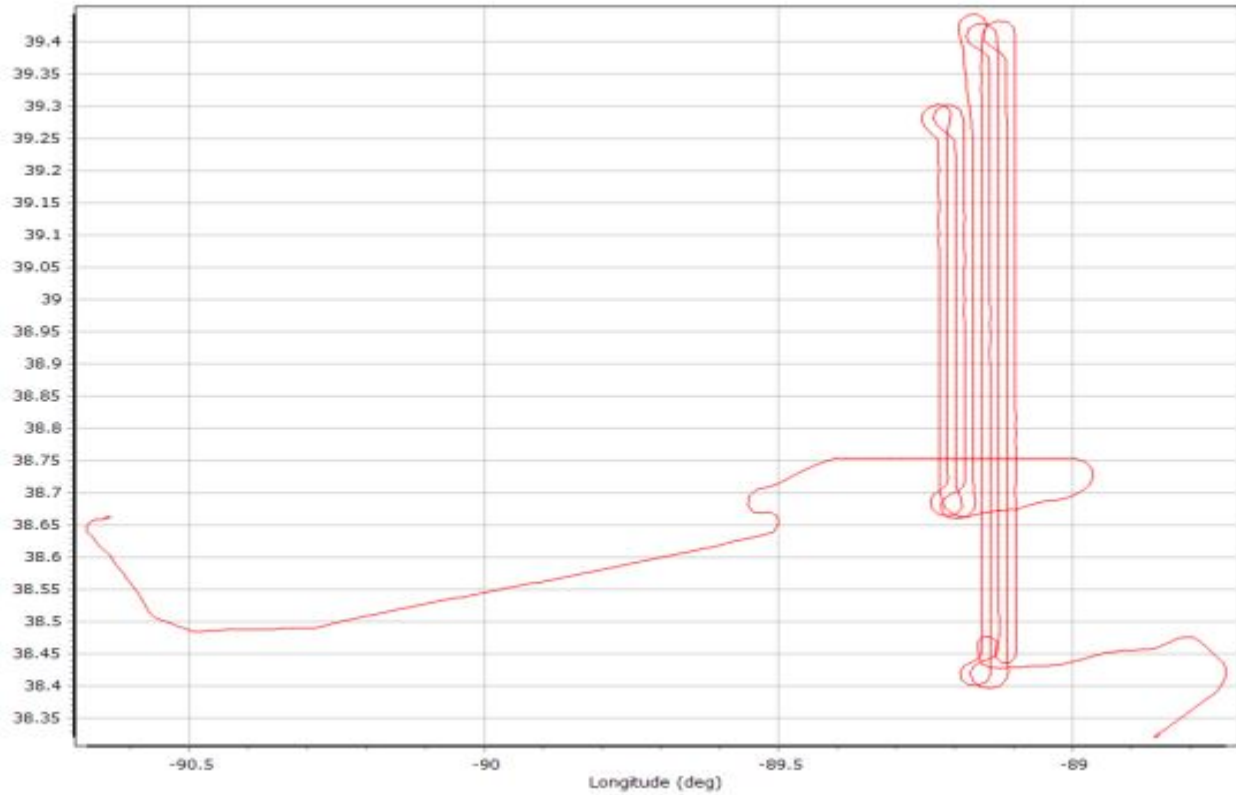


PDOP



030821a386.docx QC Report - 7/05/2021 09:23:17
Smoothed Trajectory Information

Top View

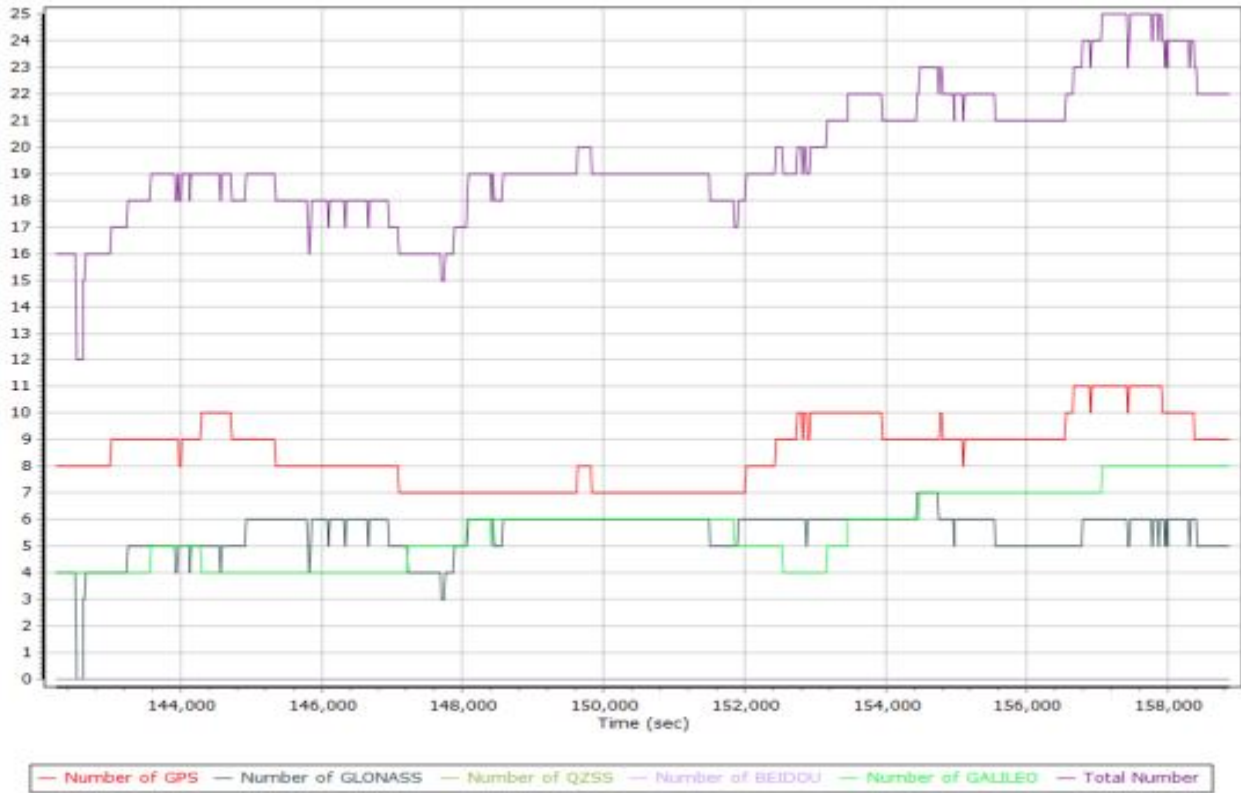


GNSS QC

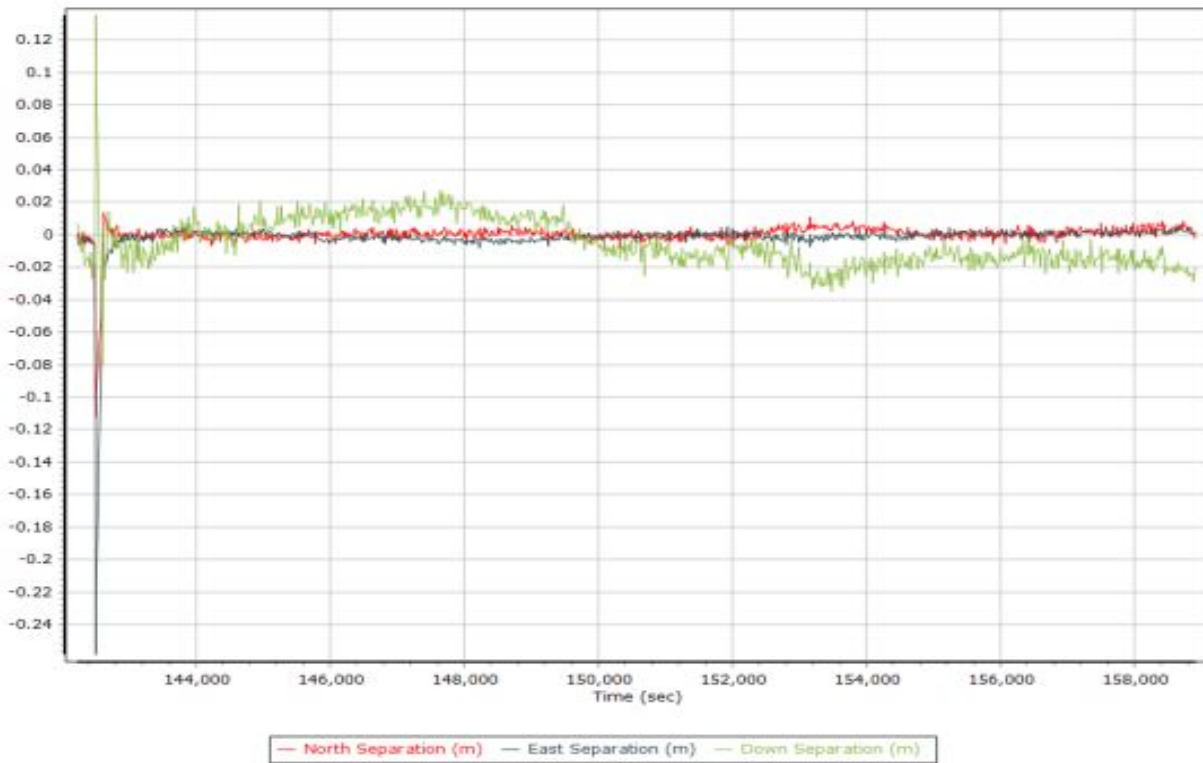
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	7	11	9
Number of GLONASS SV	2	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	0	8	6
Total number of SV	12	25	20
PDOP	1.03	1.81	1.26
QC Solution Gaps	5.00	5.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	17113.00	0.00	5.00
Percentage	99.97	0.00	0.03

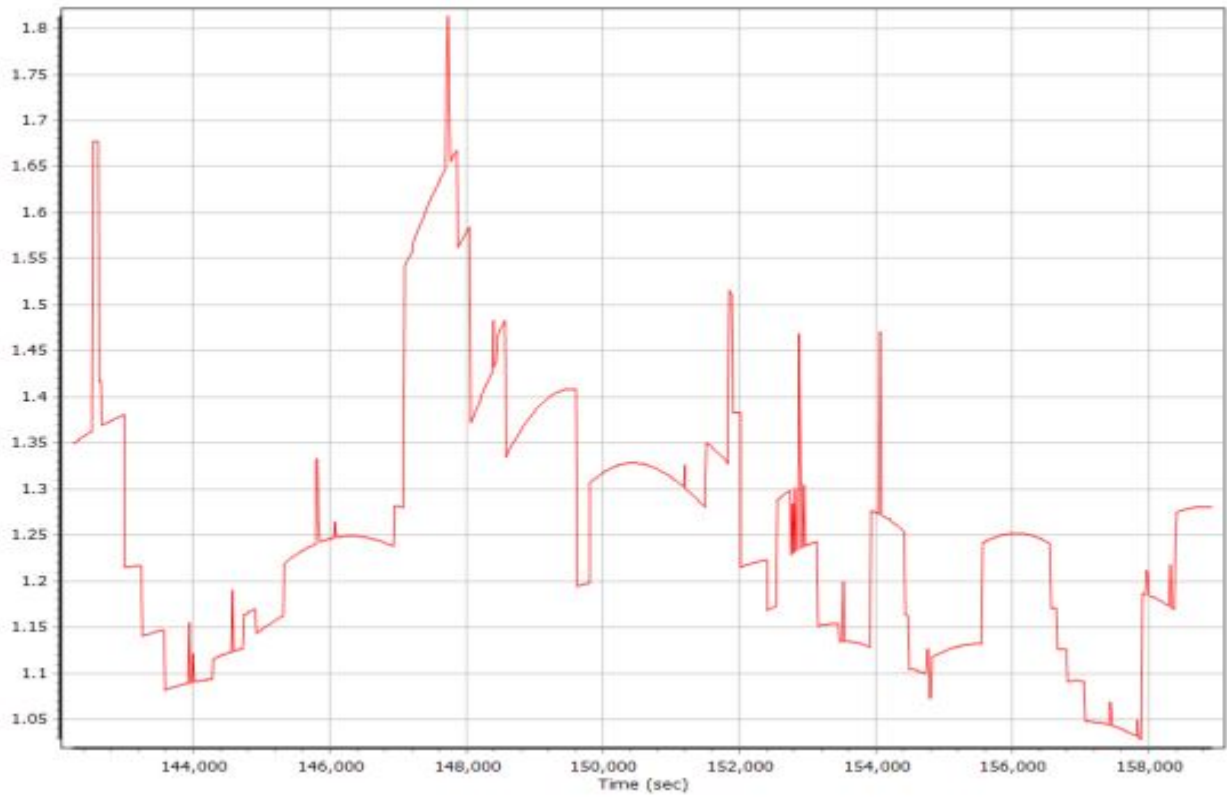
Number of Satellites



Forward/Reverse Separation

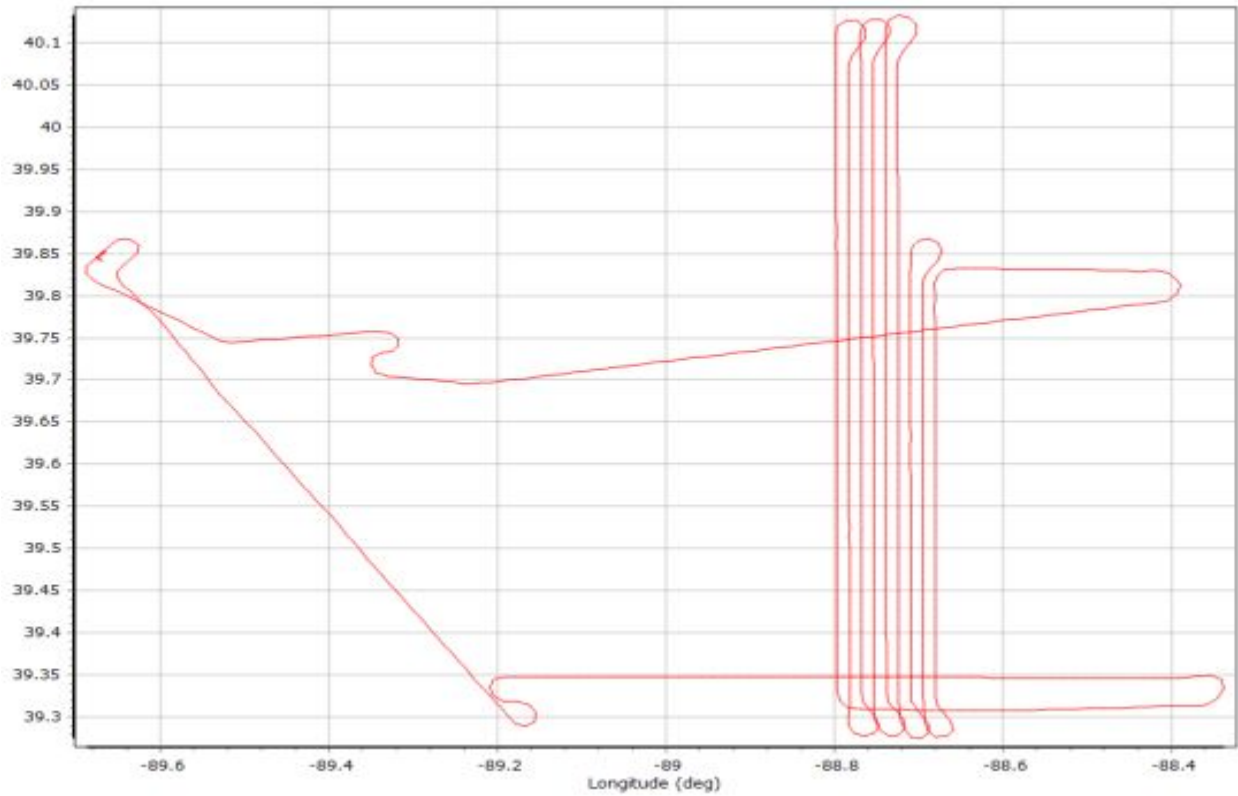


PDOP



030821a448.docx QC Report - 7/057/2021 09:35:51
Smoothed Trajectory Information

Top View

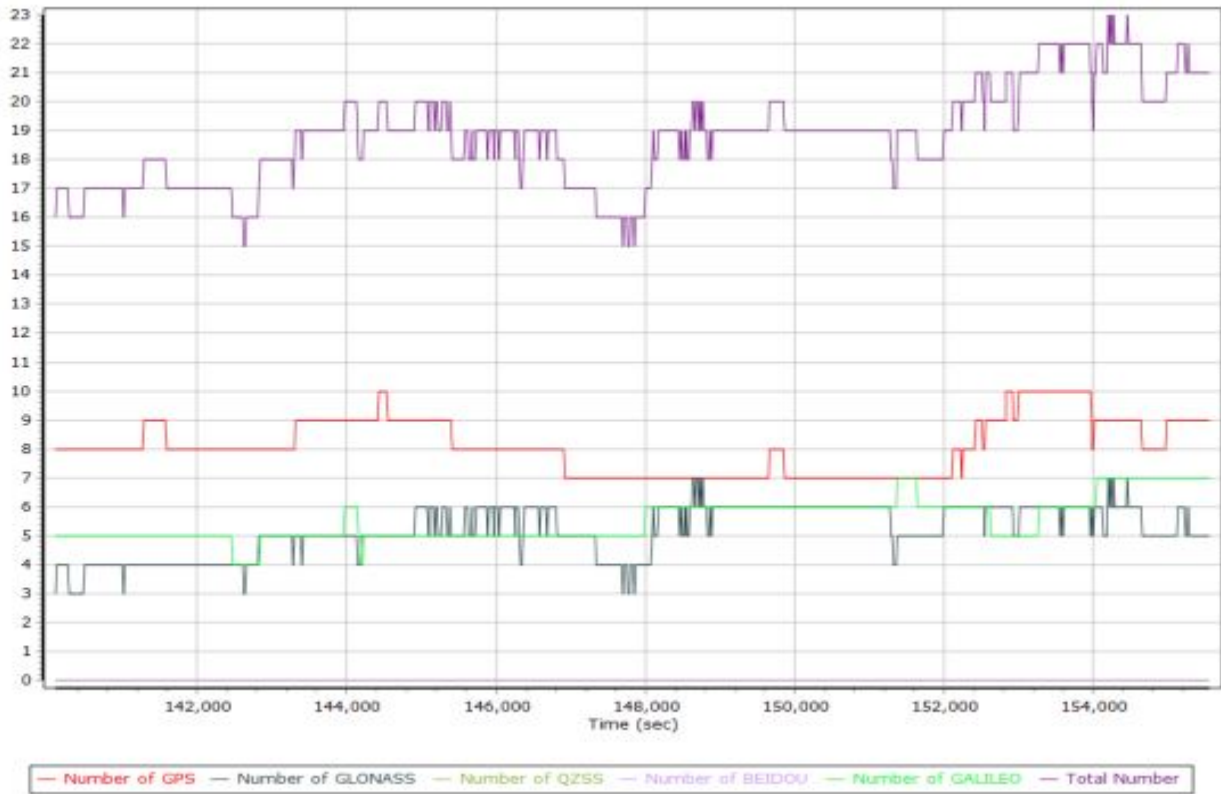


GNSS QC

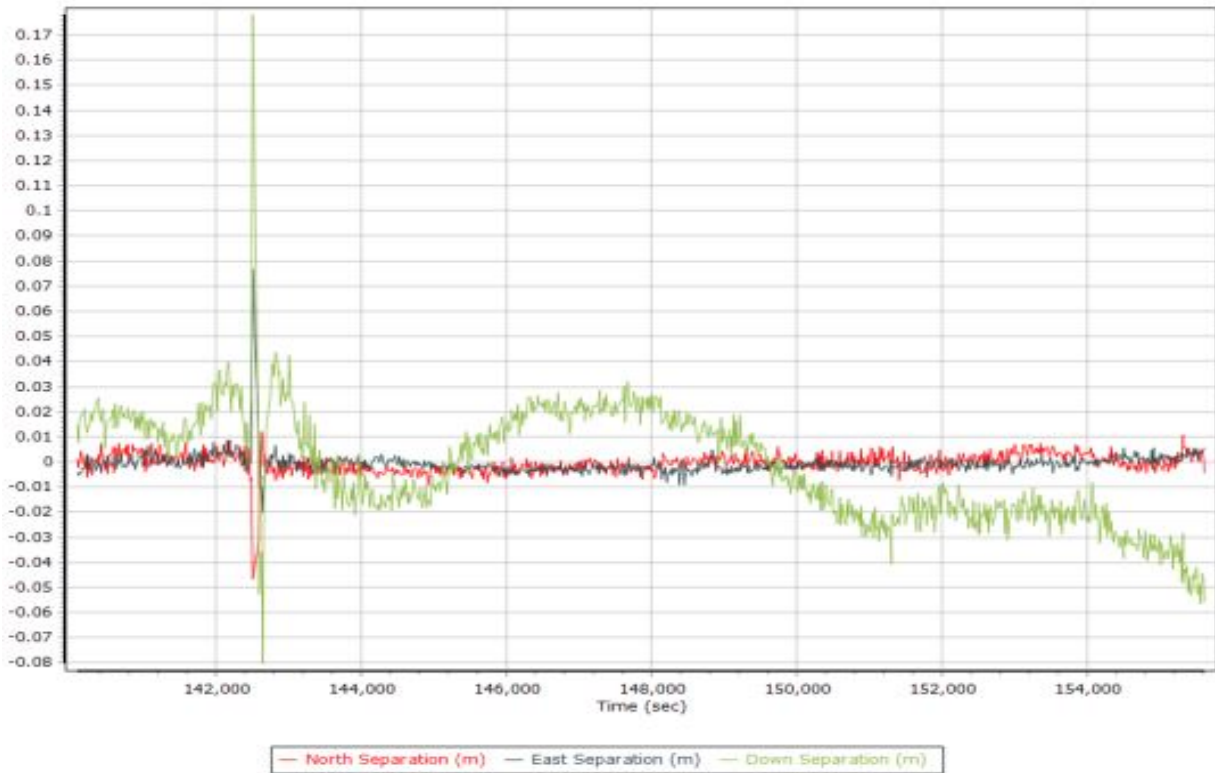
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	10	8
Number of GLONASS SV	3	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	7	6
Total number of SV	14	23	19
PDOP	1.01	1.83	1.28
QC Solution Gaps	5.00	5.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15862.00	0.00	5.00
Percentage	99.97	0.00	0.03

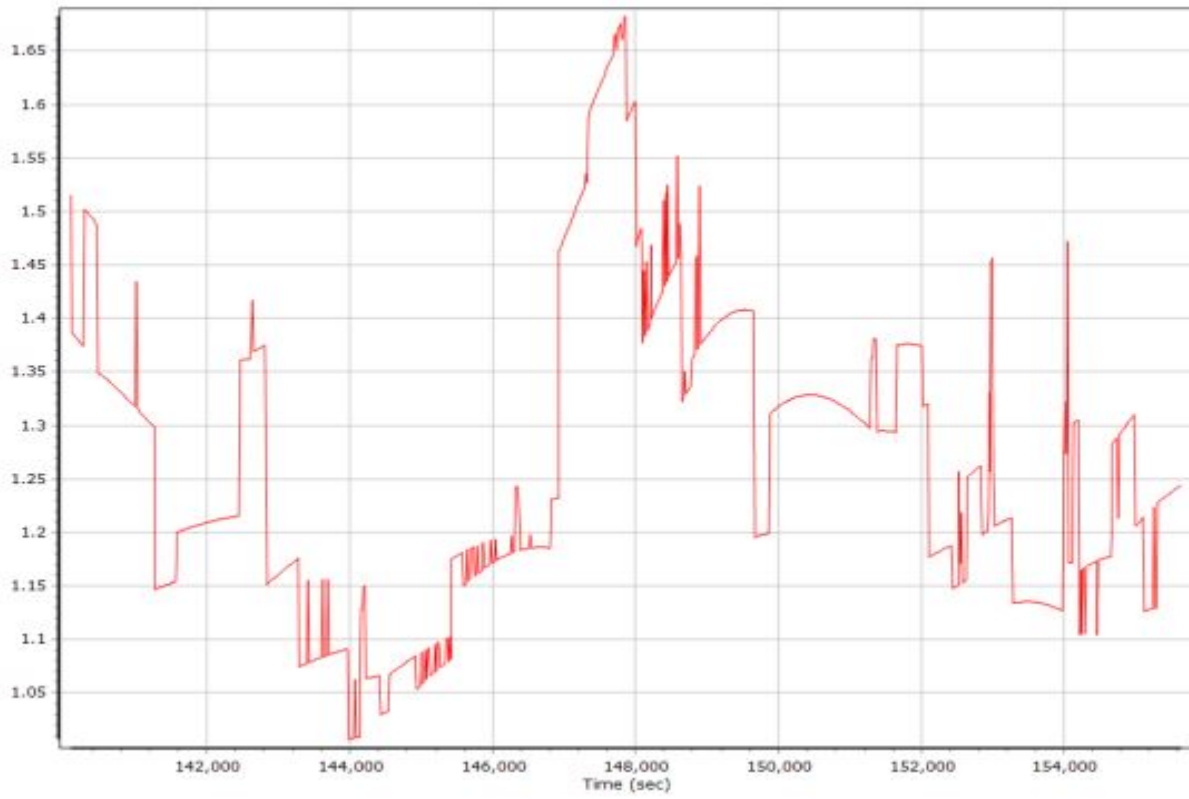
Number of Satellites



Forward/Reverse Separation

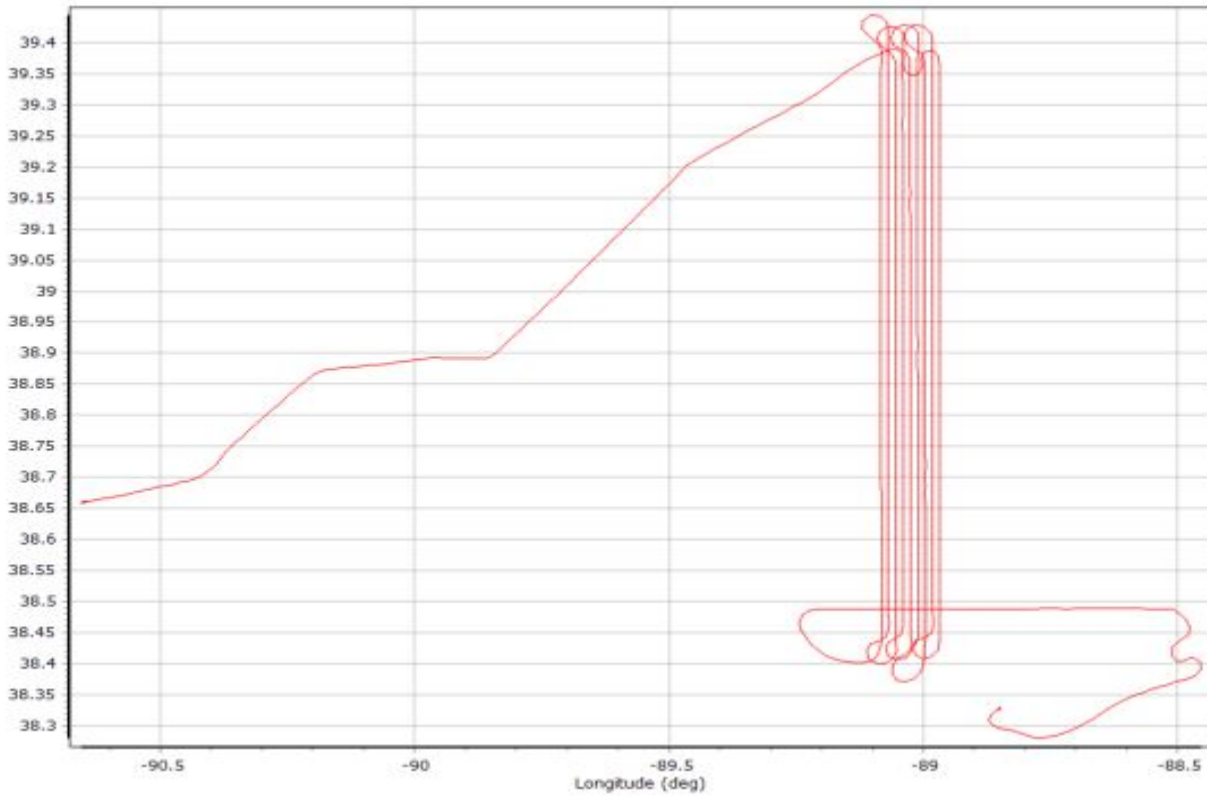


PDOP



030821b386.docx QC Report - 7/05/2021 09:21:12
Smoothed Trajectory Information

Top View

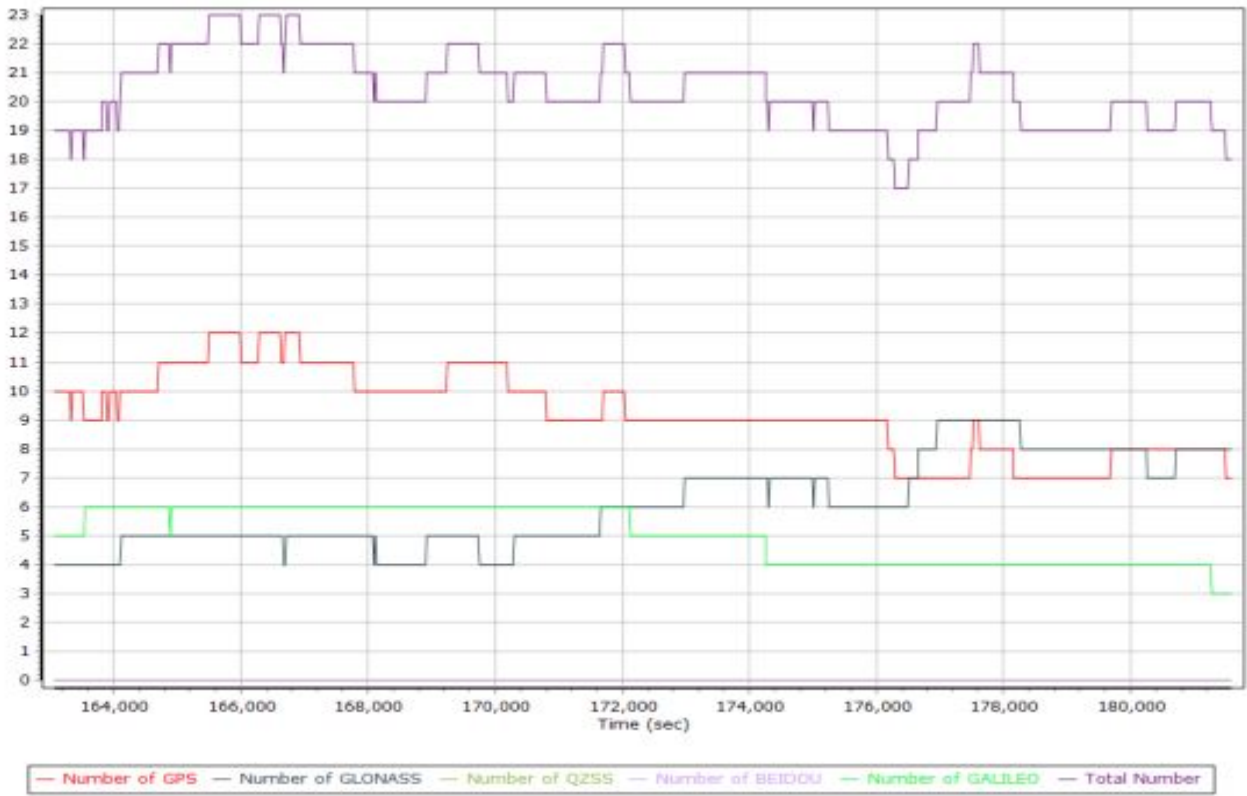


GNSS QC

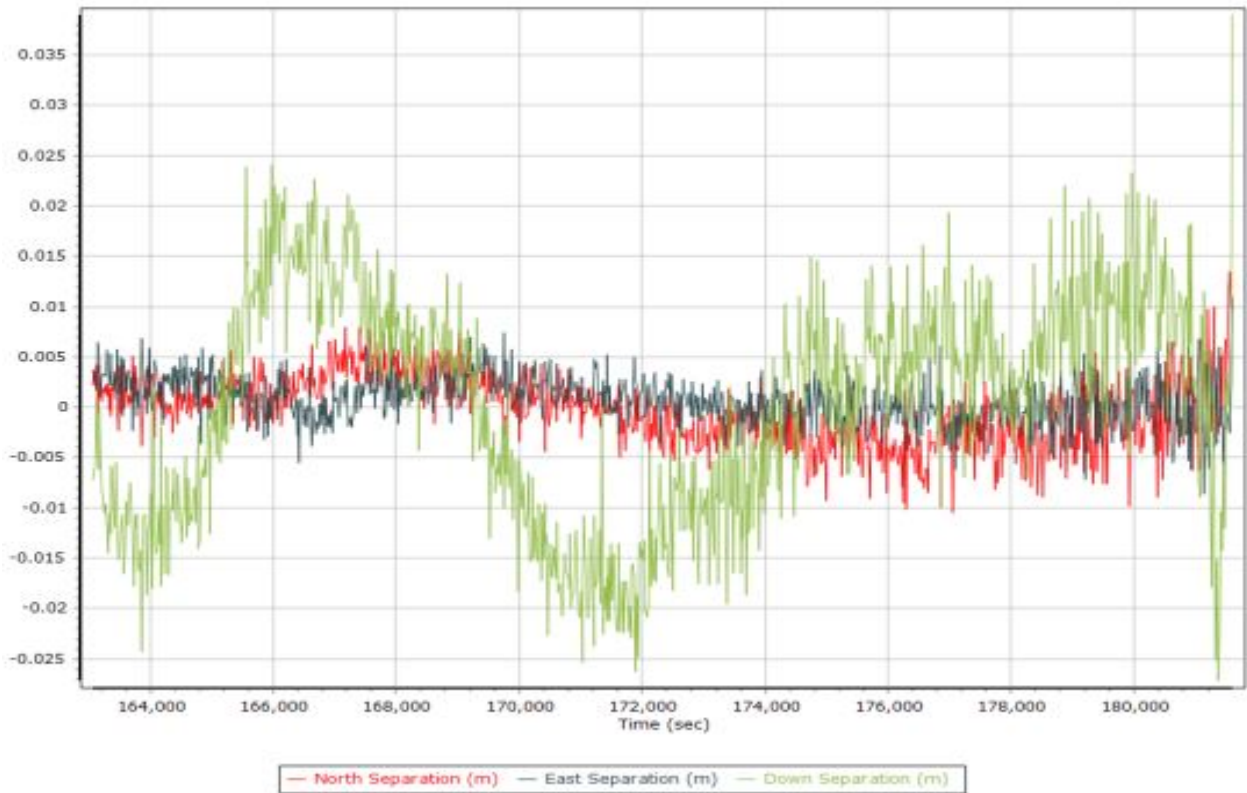
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	7	12	9
Number of GLONASS SV	0	9	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	3	7	5
Total number of SV	15	23	20
PDOP	0.96	1.55	1.18
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	18995.00	0.00	0.00
Percentage	100.00	0.00	0.00

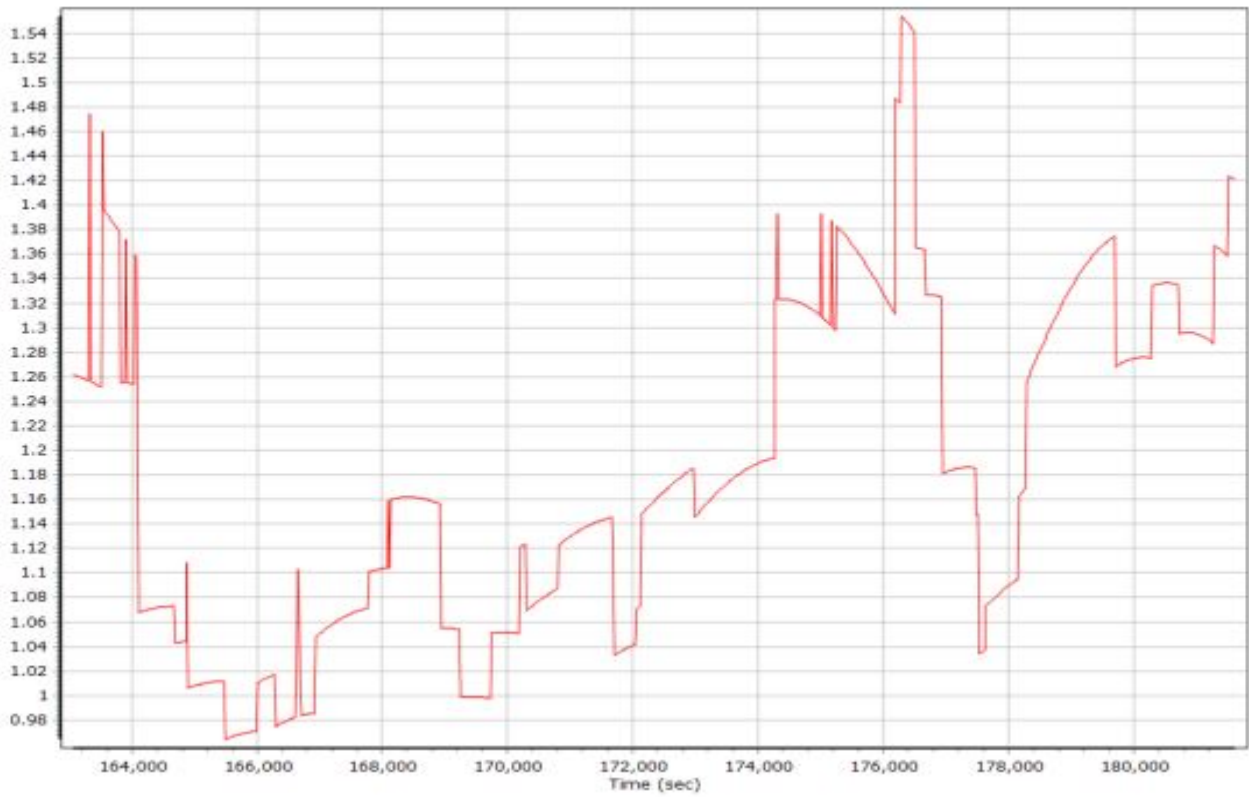
Number of Satellites



Forward/Reverse Separation



PDOP



030821b448.docx QC Report - 7/06/2021 09:37:12
Smoothed Trajectory Information

Top View

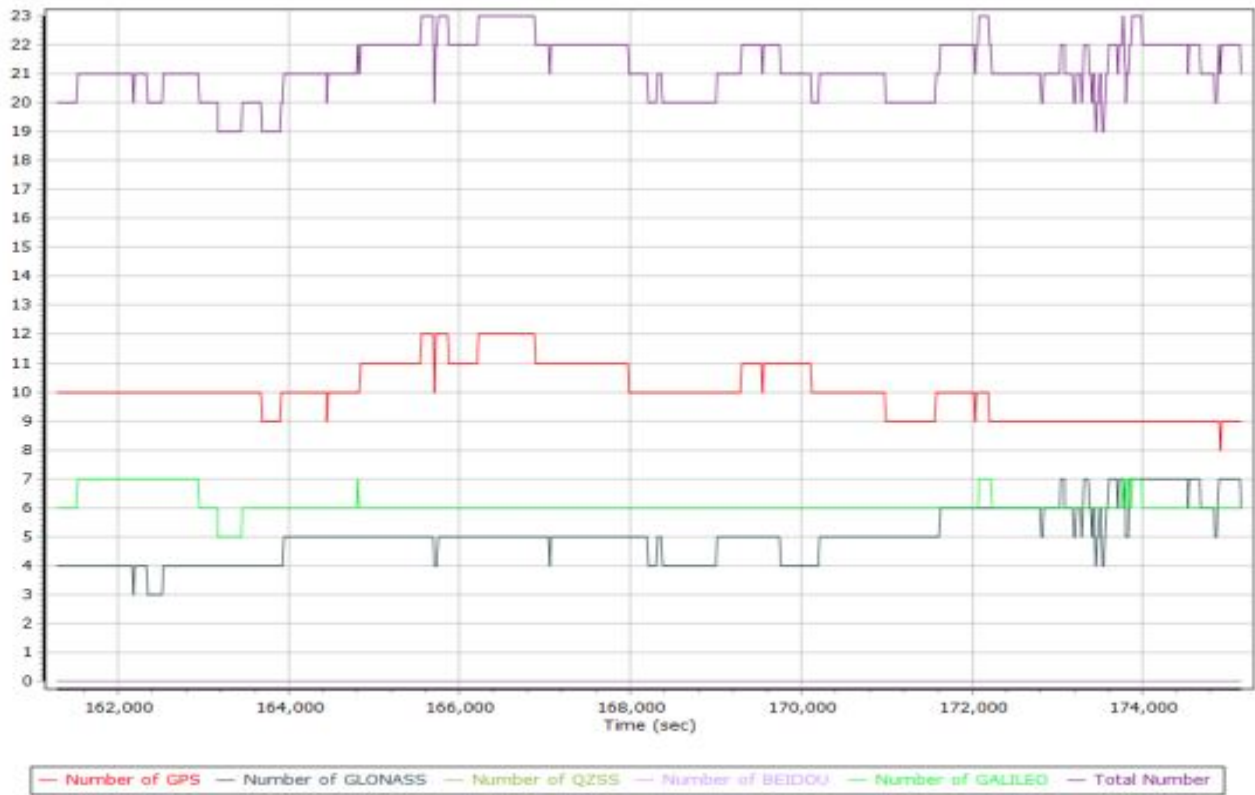


GNSS QC

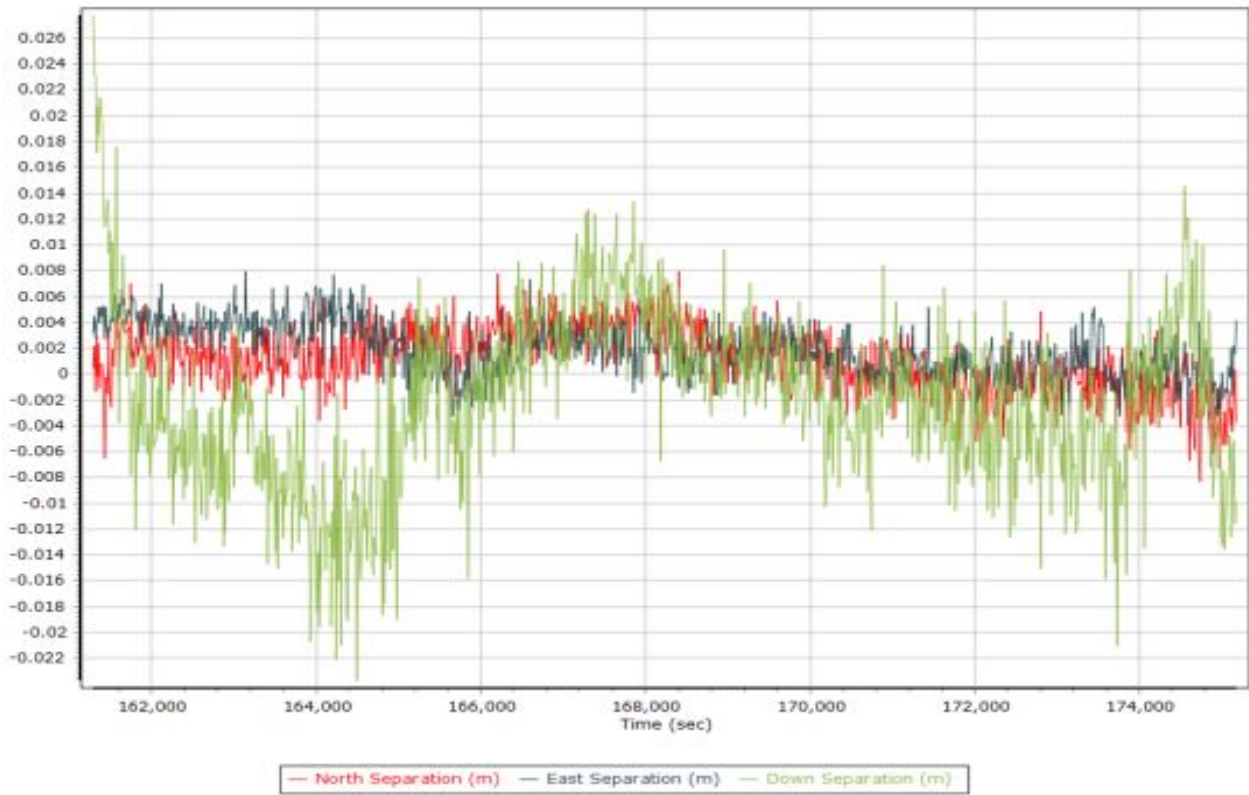
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	8	12	10
Number of GLONASS SV	3	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	5	7	6
Total number of SV	19	23	21
PDOP	0.95	1.39	1.09
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	14274.00	0.00	0.00
Percentage	100.00	0.00	0.00

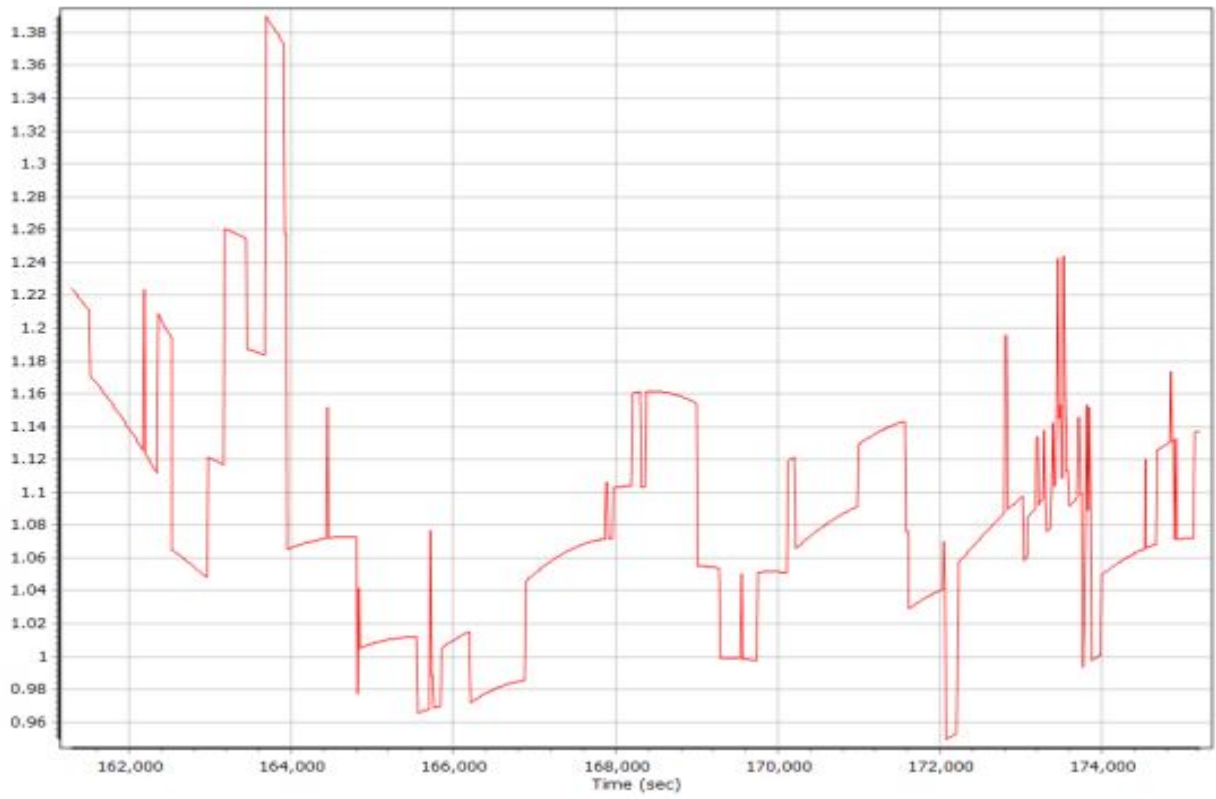
Number of Satellites



Forward/Reverse Separation

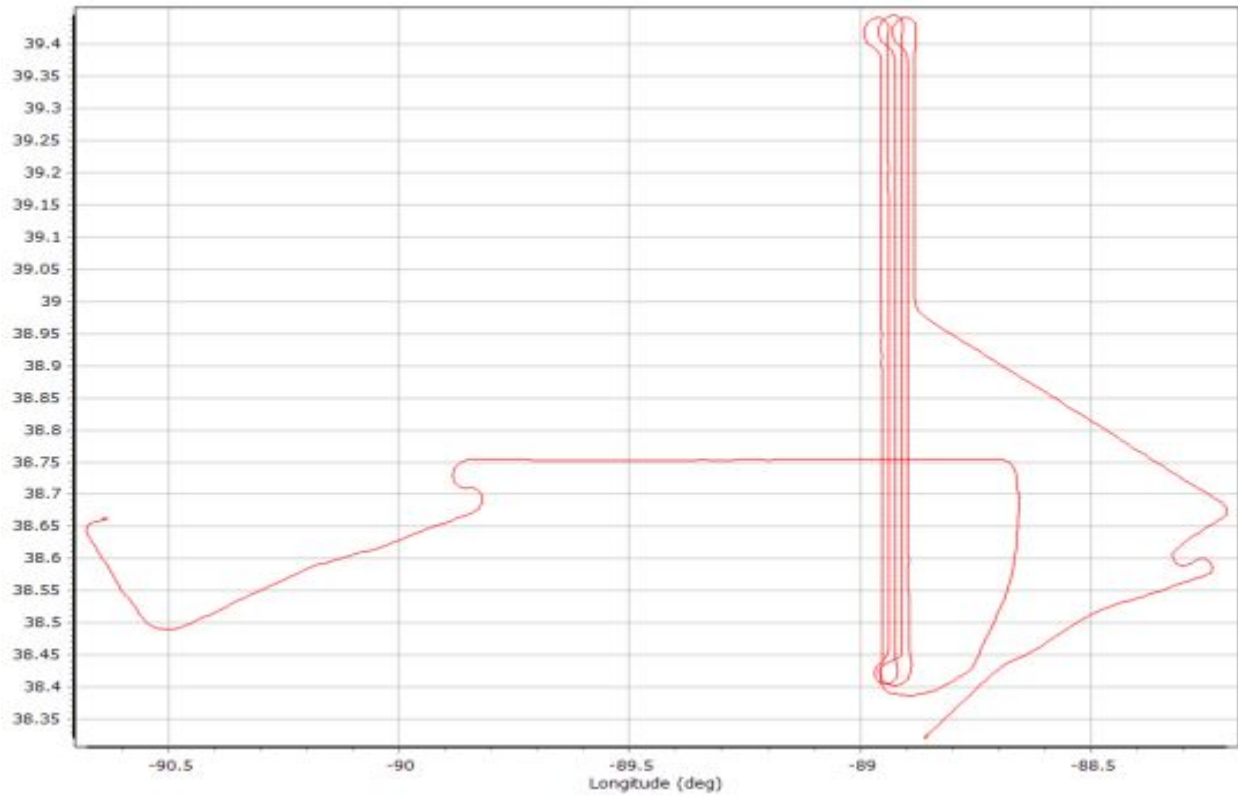


PDOP



030921a386.docx QC Report - 7/05/2021 09:19:11
Smoothed Trajectory Information

Top View



GNSS QC

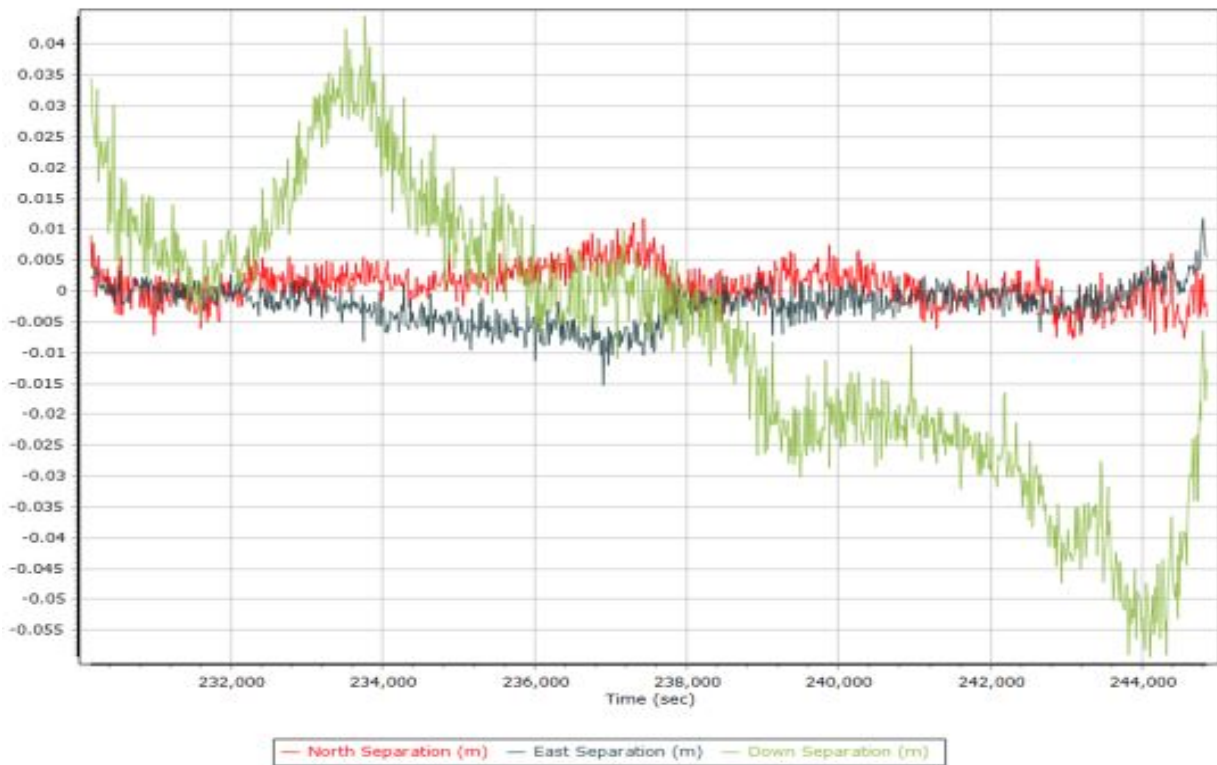
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	11	9
Number of GLONASS SV	0	8	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	1
Number of GALILEO SV	3	7	6
Total number of SV	15	24	21
PDOP	0.98	1.50	1.20
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15127.00	0.00	0.00
Percentage	100.00	0.00	0.00

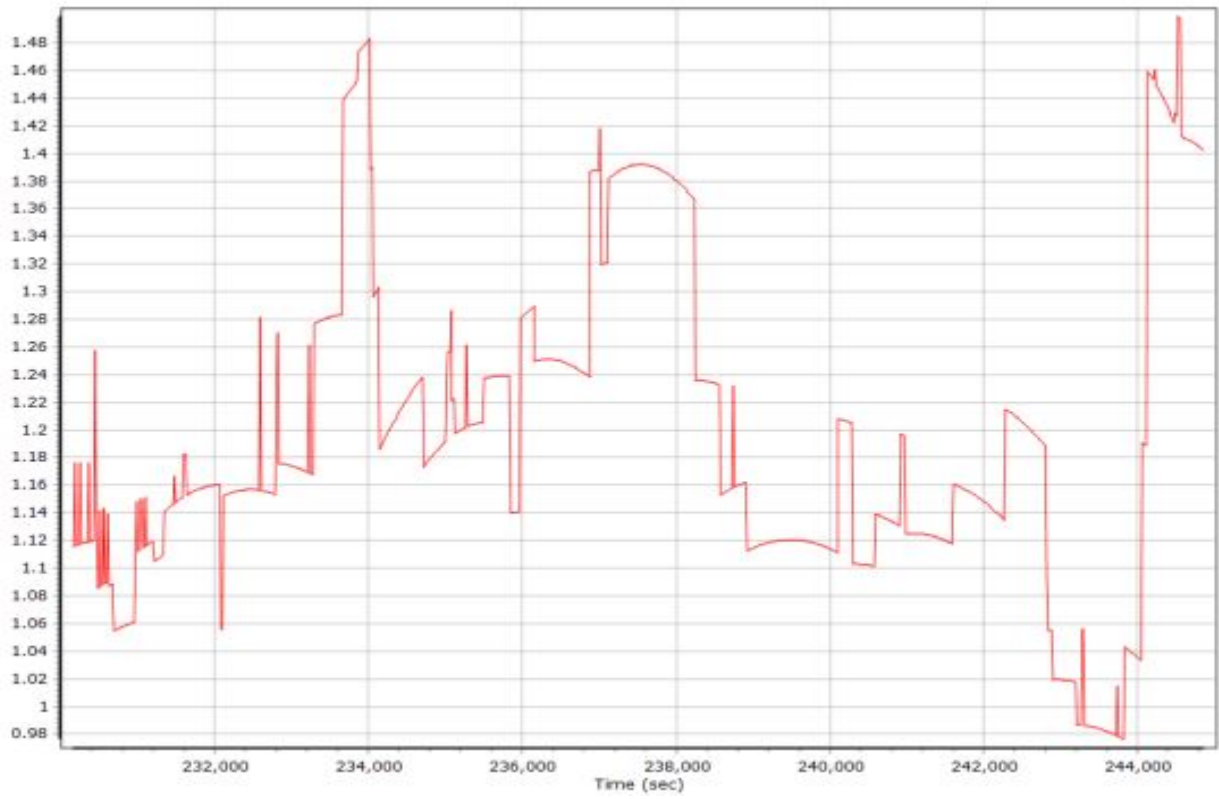
Number of Satellites



Forward/Reverse Separation



PDOP



030921a448.docx QC Report - 7/05/2021 09:39:03
Smoothed Trajectory Information

Top View



GNSS QC

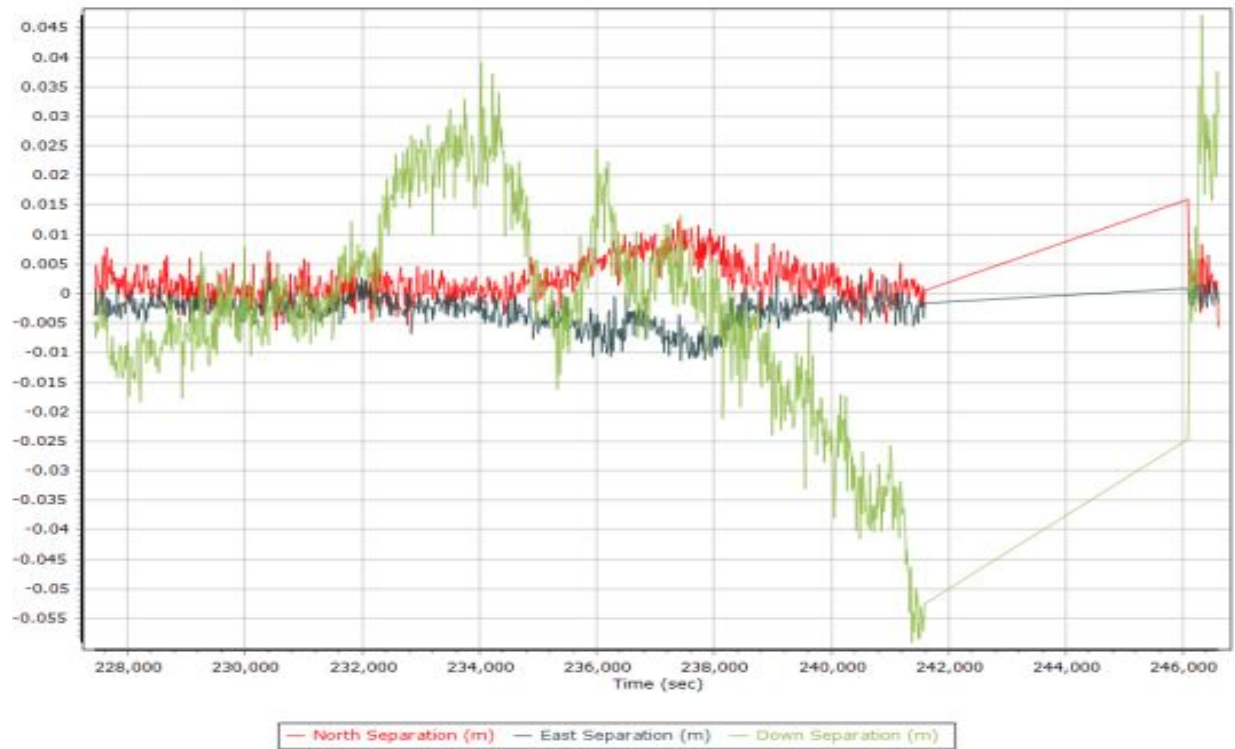
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	10	8
Number of GLONASS SV	0	8	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	1
Number of GALILEO SV	4	7	6
Total number of SV	14	24	21
PDOP	1.03	2.32	1.20
QC Solution Gaps	4474.00	4474.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15122.00	0.00	4474.00
Percentage	77.17	0.00	22.83

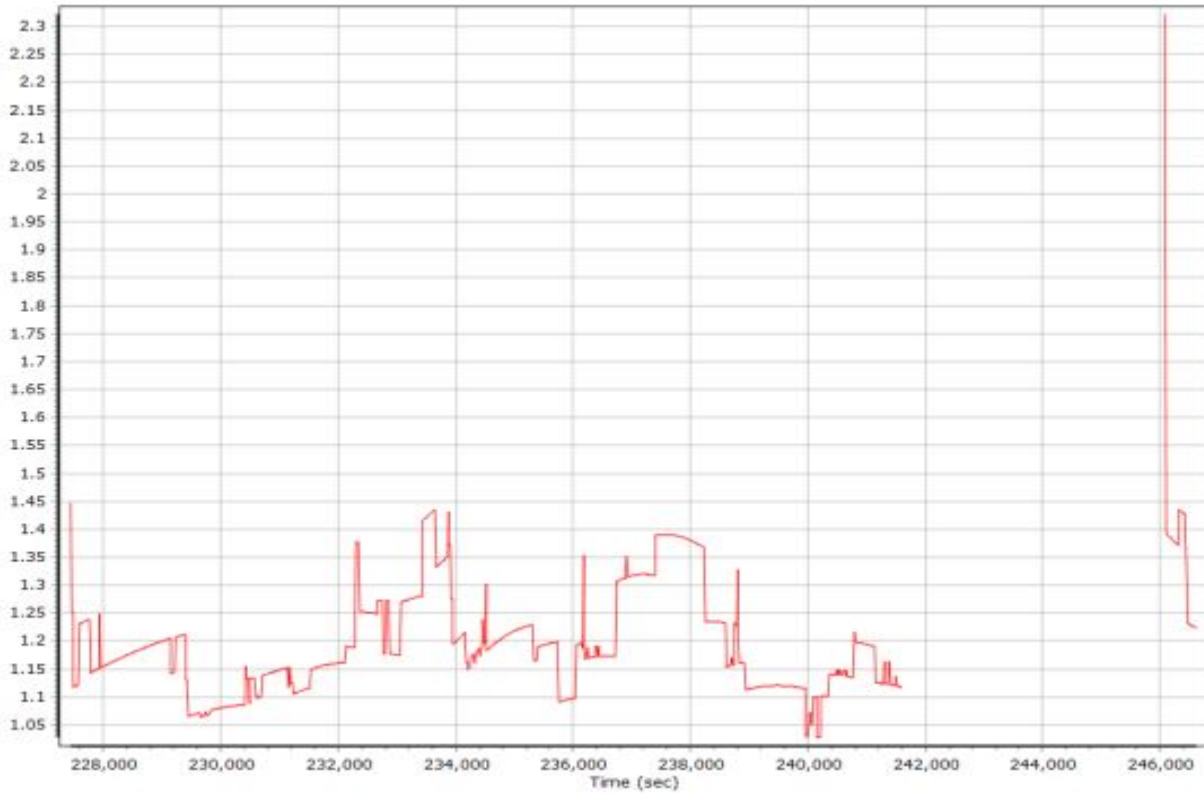
Number of Satellites



Forward/Reverse Separation

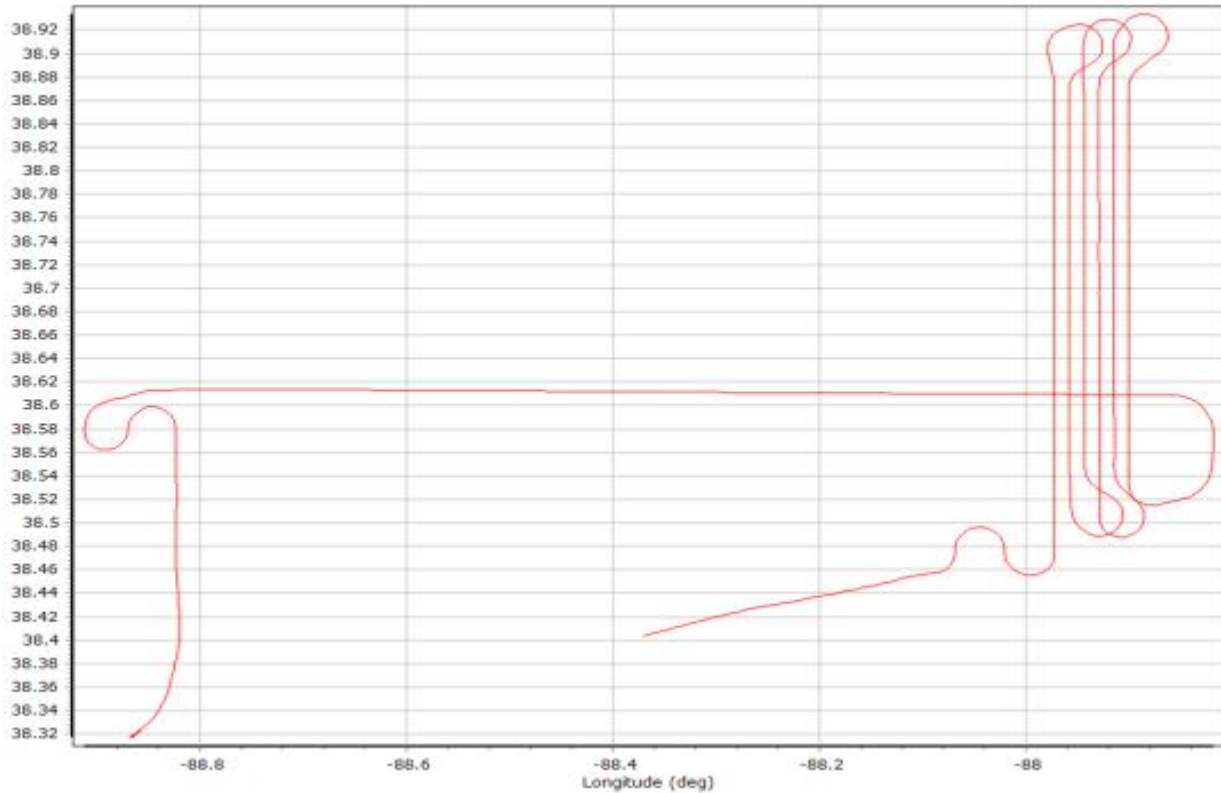


PDOP



031221a386.docx QC Report - 7/05/2021 09:17:52
Smoothed Trajectory Information

Top View

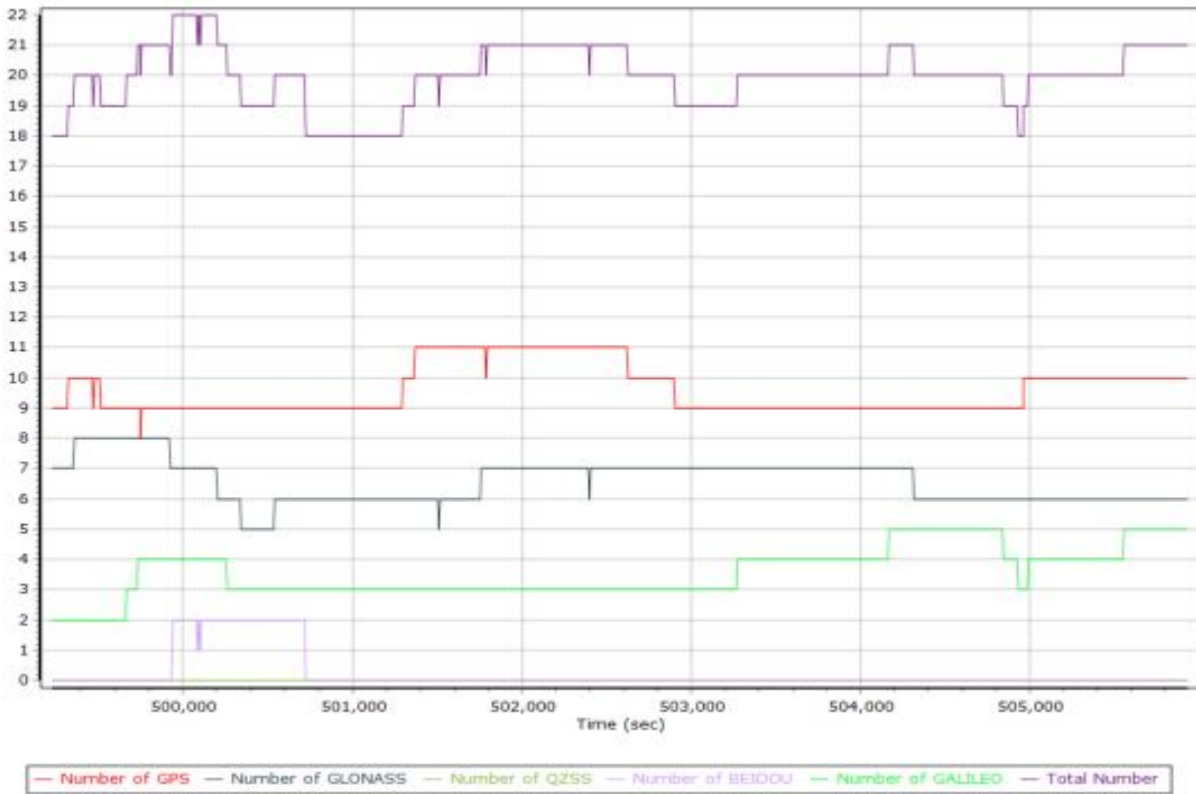


GNSS QC

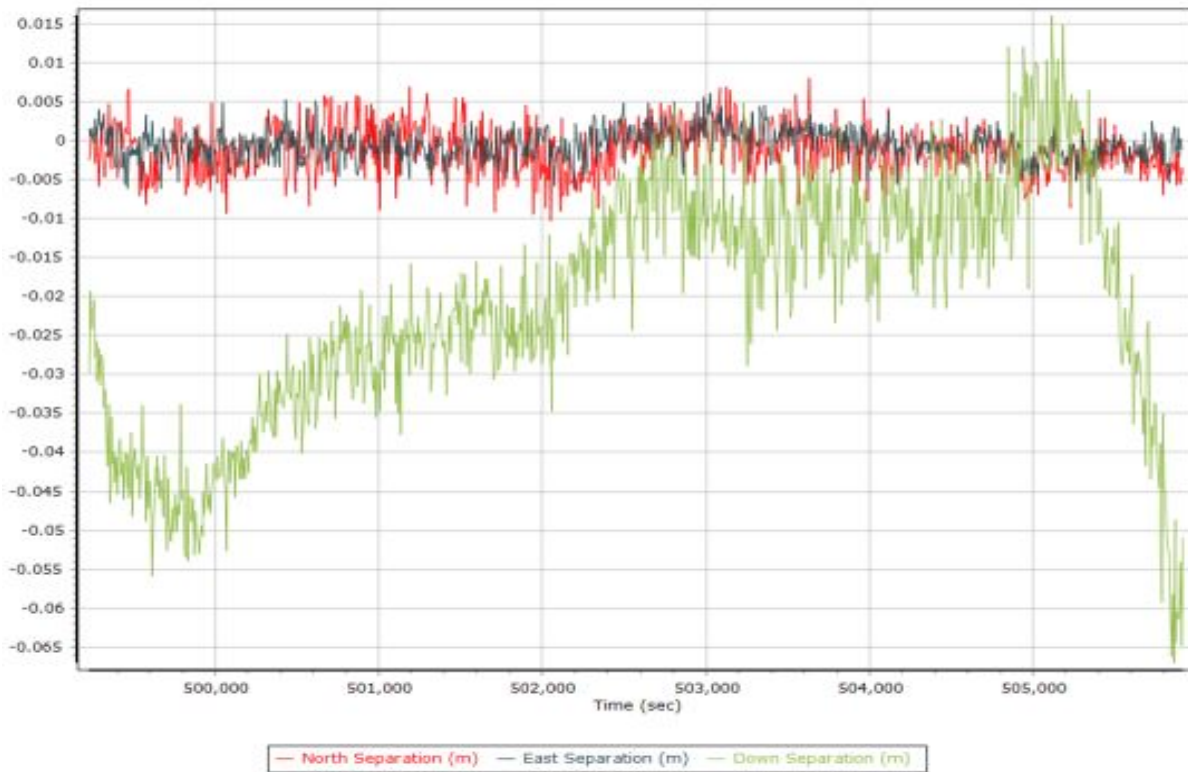
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	8	11	10
Number of GLONASS SV	0	8	7
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	0
Number of GALILEO SV	2	5	3
Total number of SV	12	22	20
PDOP	1.06	1.69	1.19
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	7163.00	0.00	0.00
Percentage	100.00	0.00	0.00

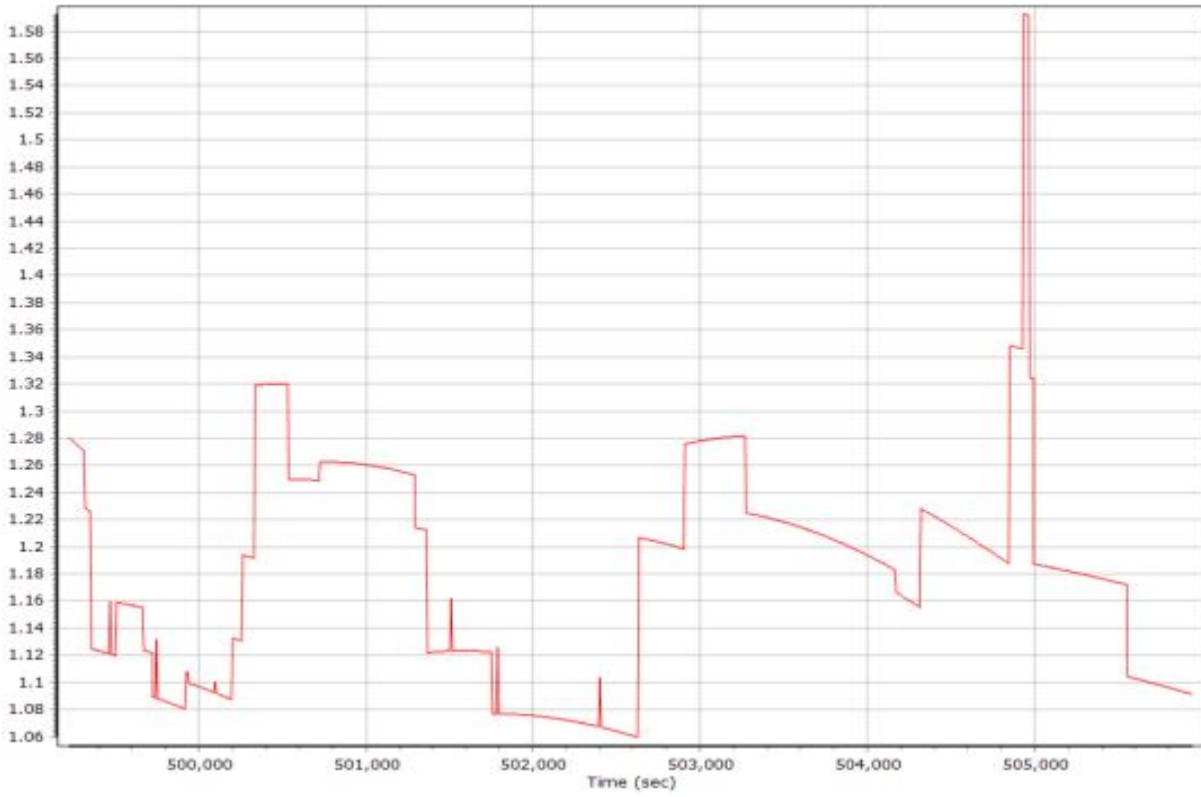
Number of Satellites



Forward/Reverse Separation

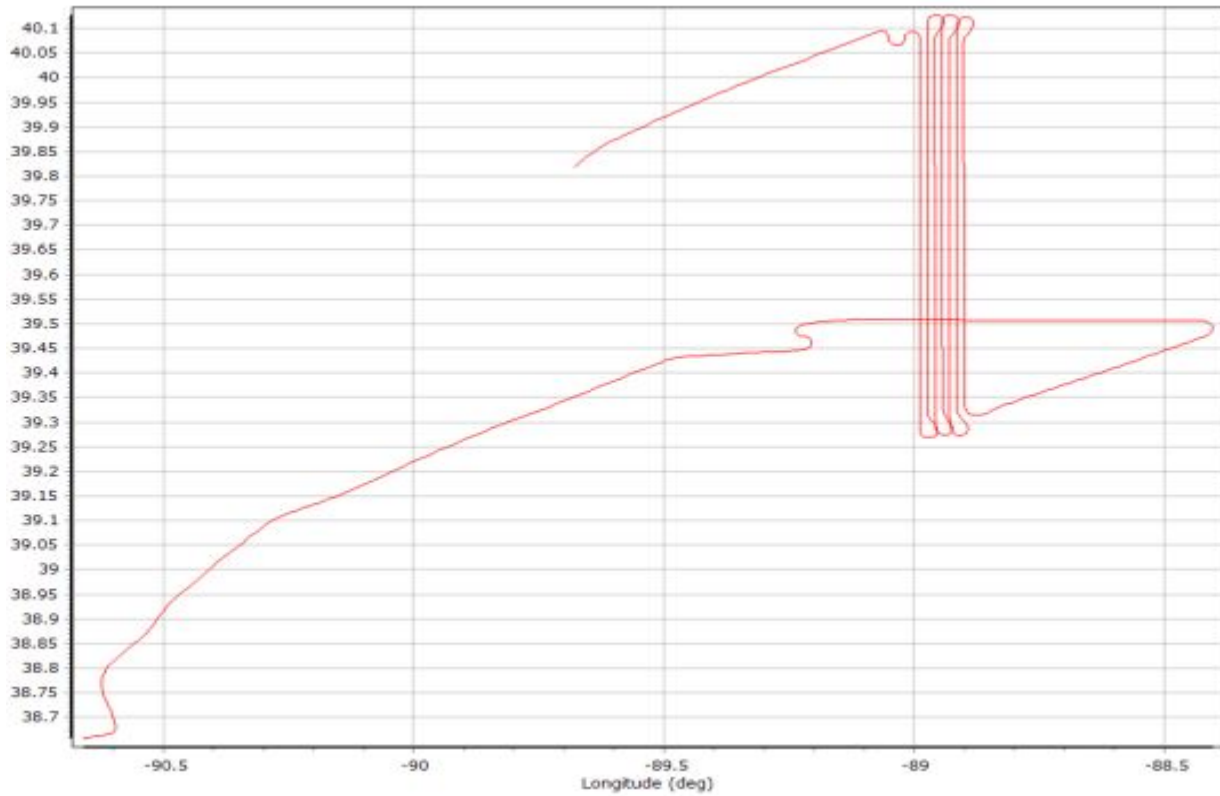


PDOP



031221a448.docx QC Report - 7/05/2021 09:40:08
Smoothed Trajectory Information

Top View



GNSS QC

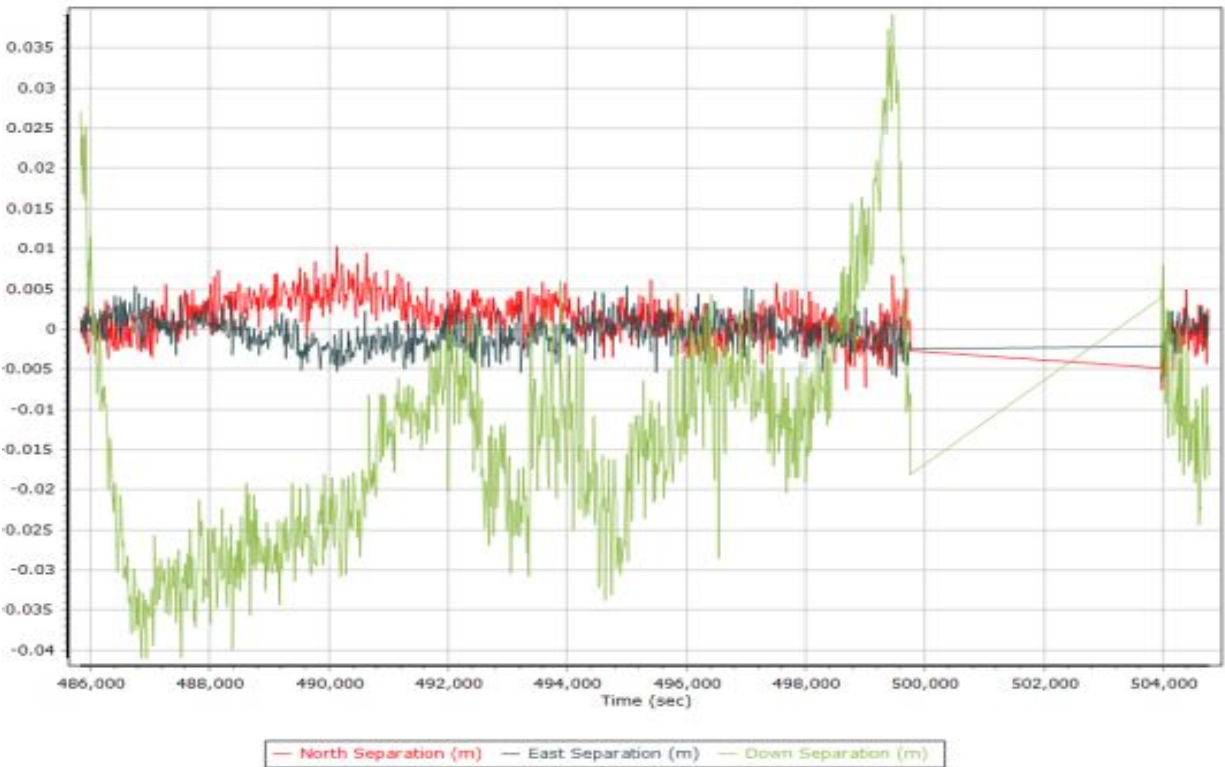
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	10	8
Number of GLONASS SV	4	8	7
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	6	6
Total number of SV	16	23	20
PDOP	1.07	1.90	1.25
QC Solution Gaps	4169.00	4169.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15179.00	0.00	4169.00
Percentage	78.45	0.00	21.55

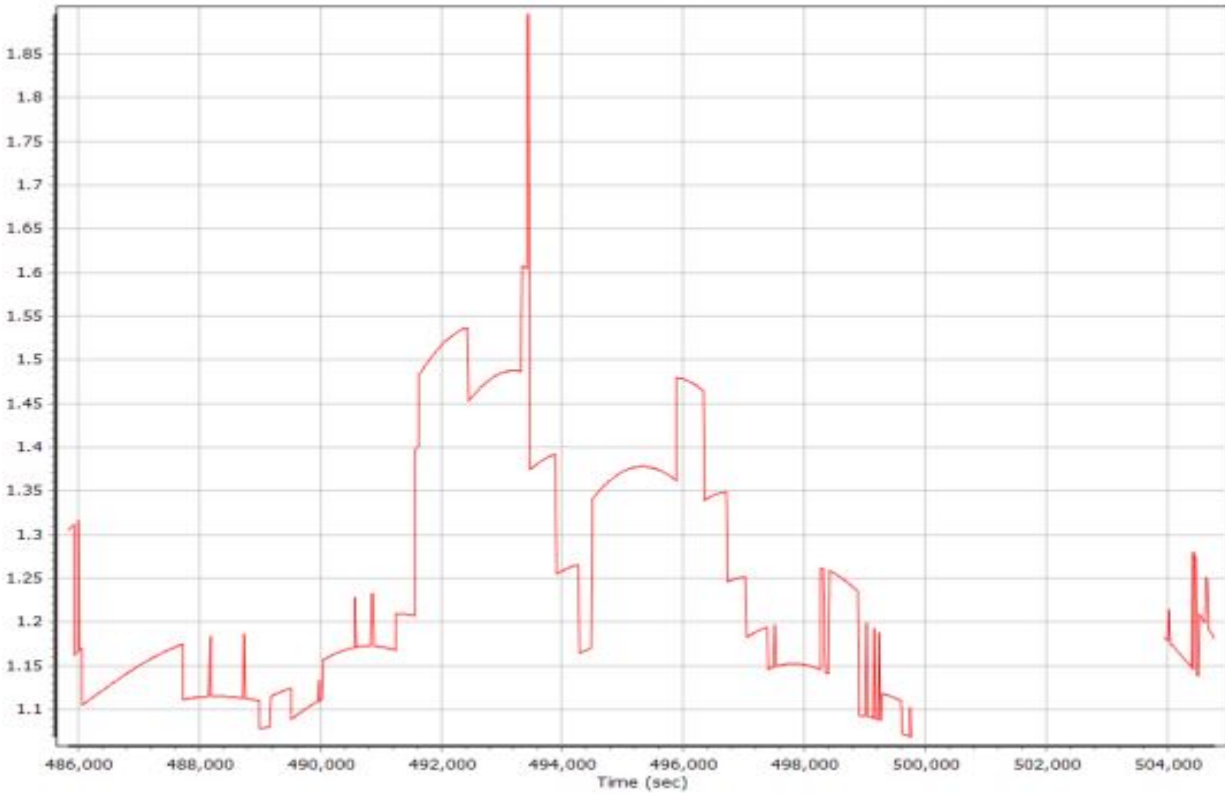
Number of Satellites



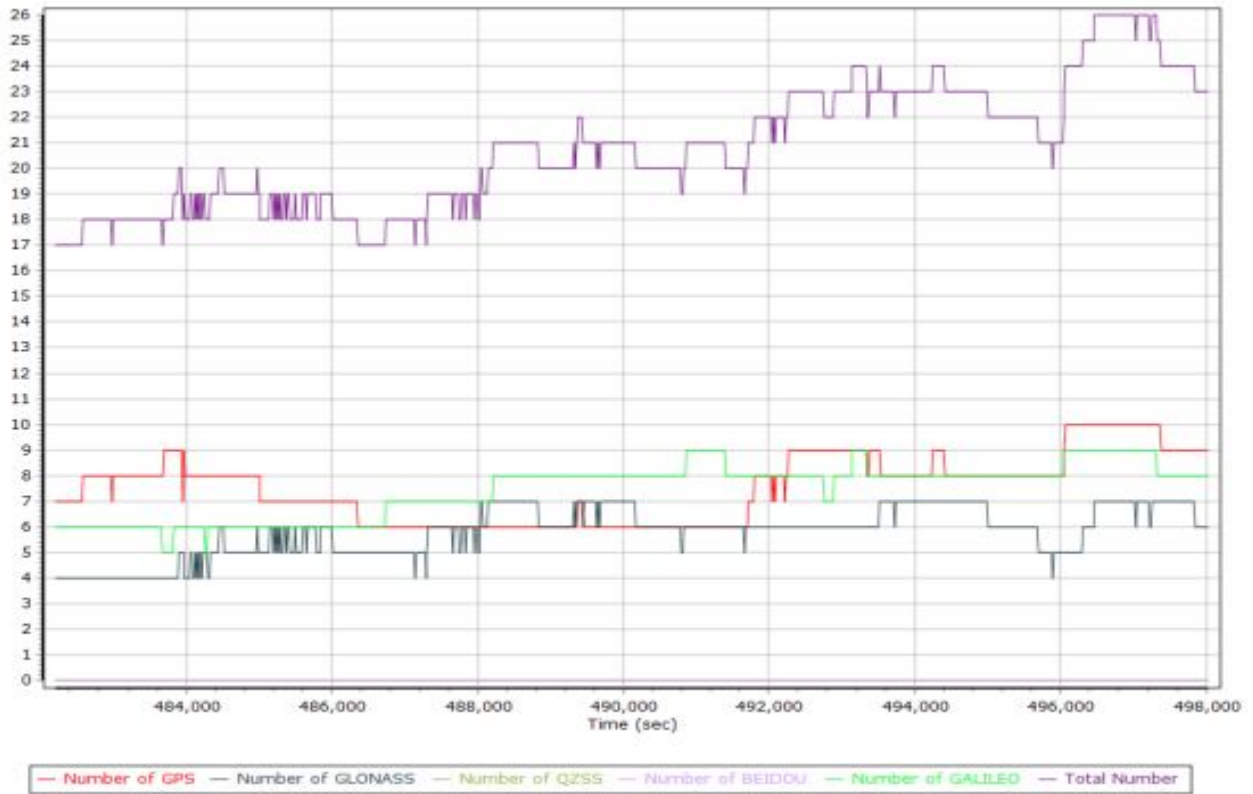
Forward/Reverse Separation



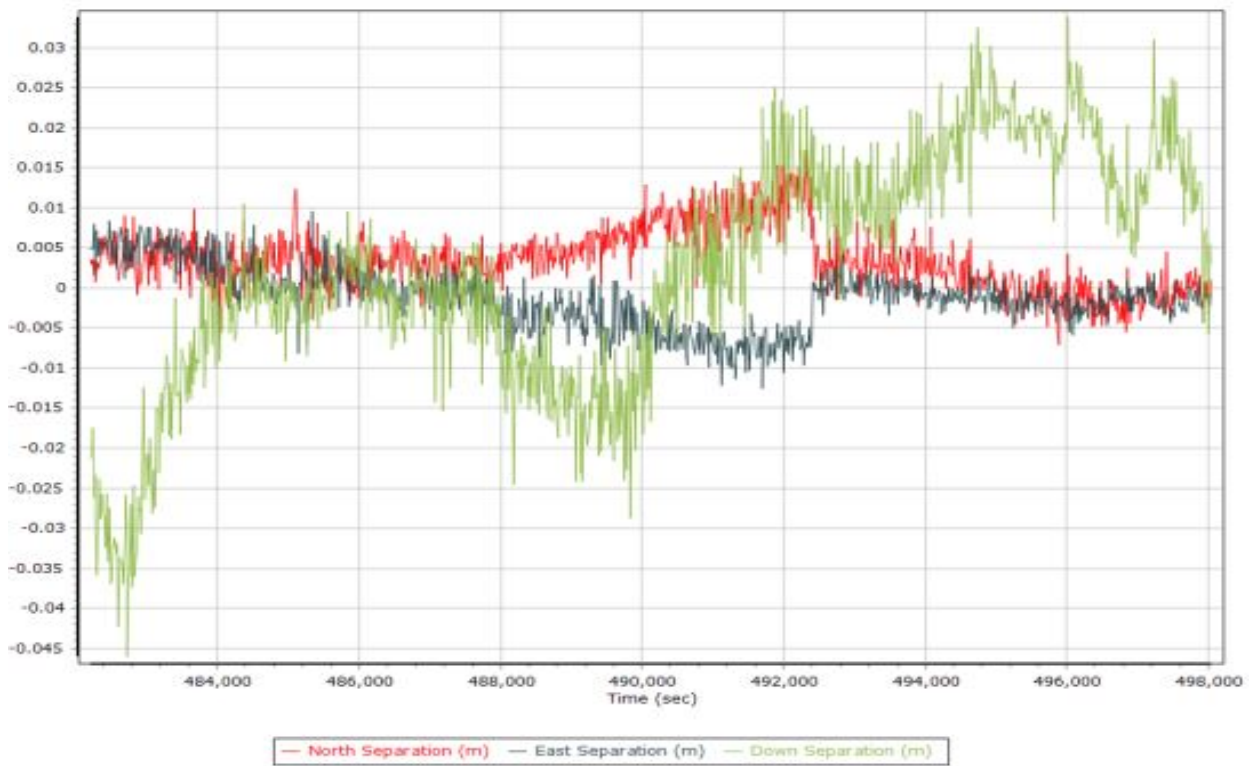
PDOP



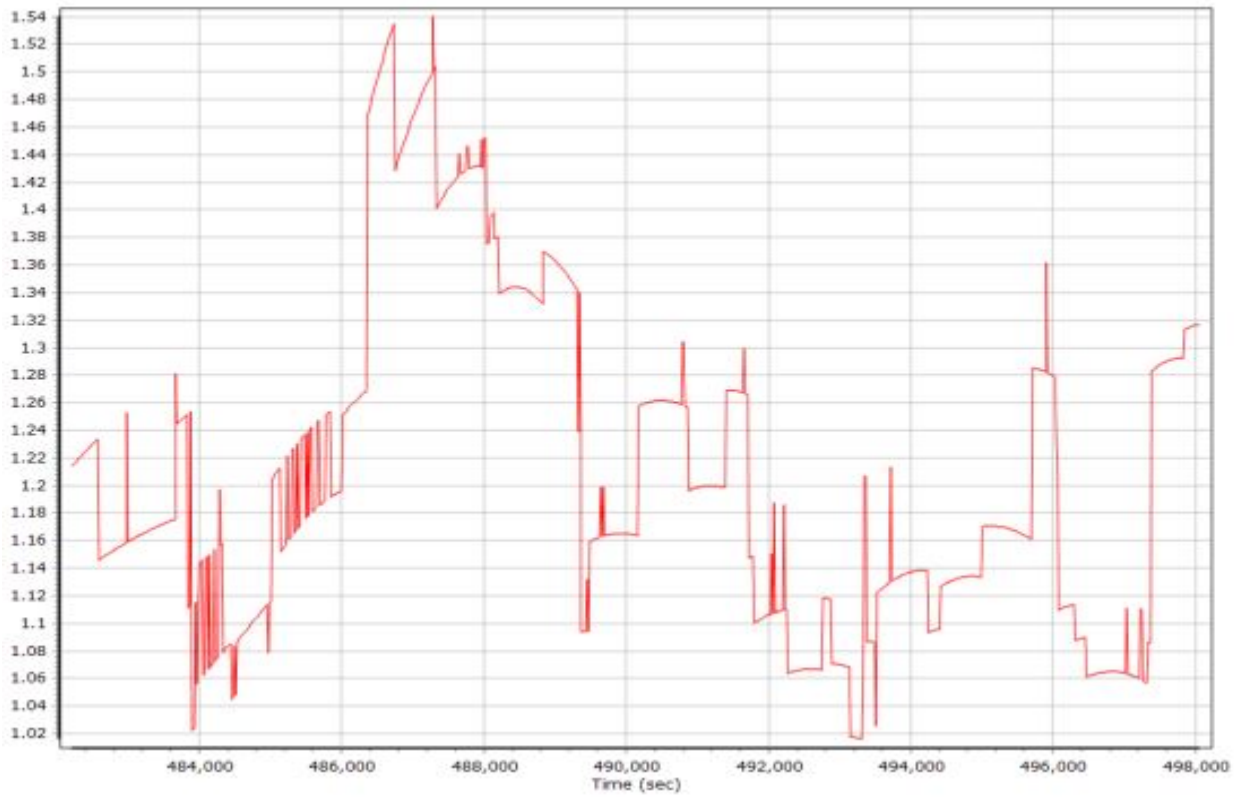
Number of Satellites



Forward/Reverse Separation

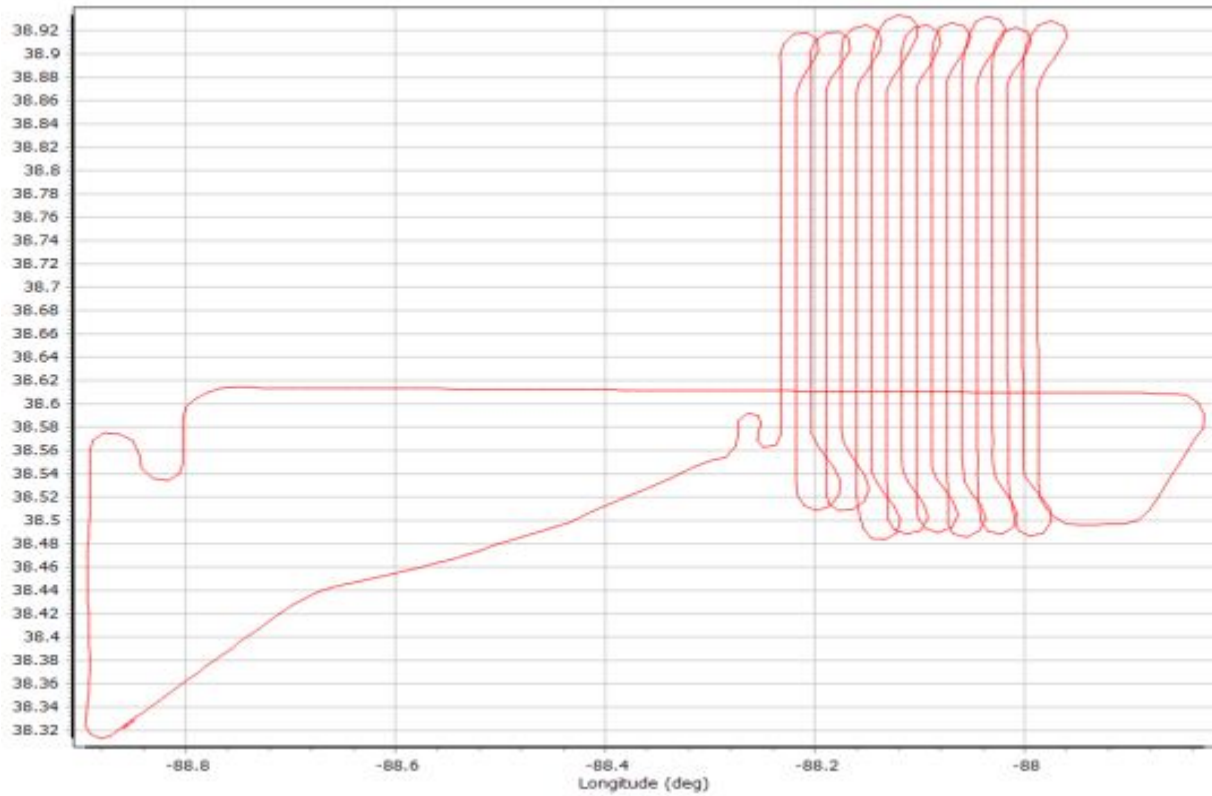


PDOP



040221b448.docx QC Report - 7/05/2021 09:42:02
Smoothed Trajectory Information

Top View



GNSS QC

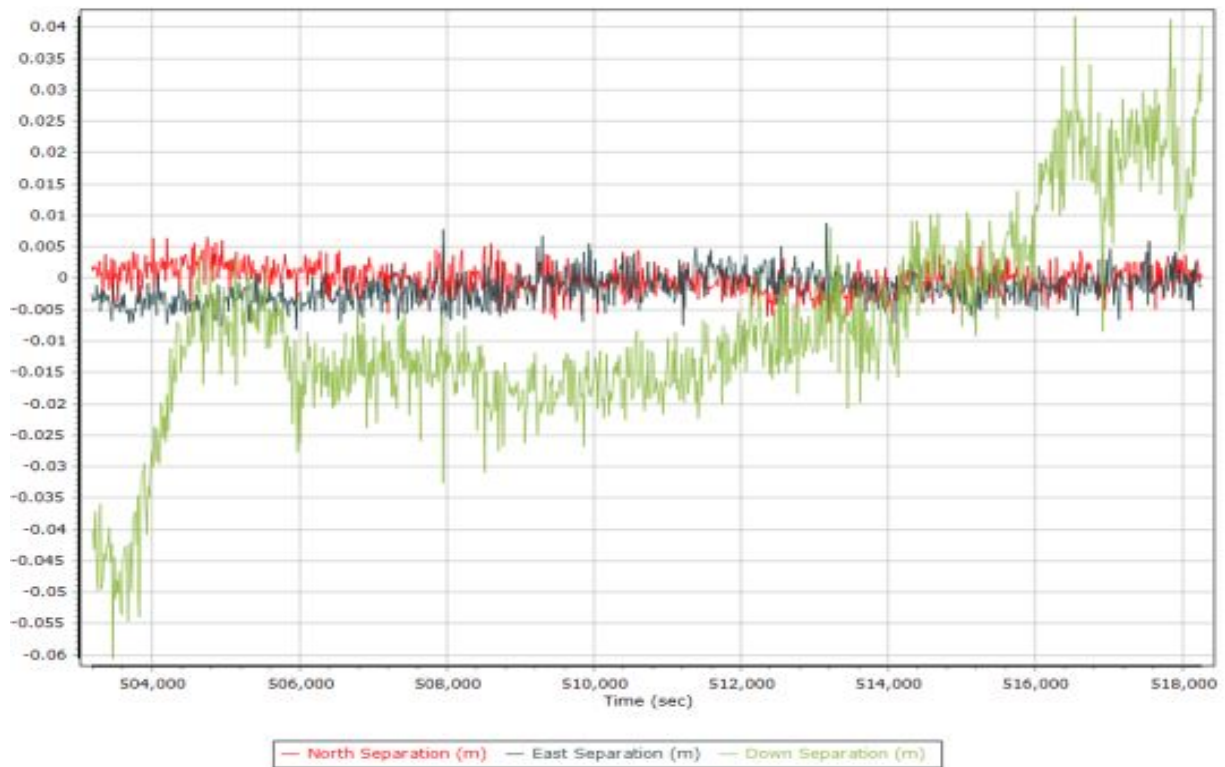
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	12	9
Number of GLONASS SV	4	9	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	7	5
Total number of SV	17	23	21
PDOP	0.99	1.63	1.10
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15468.00	0.00	0.00
Percentage	100.00	0.00	0.00

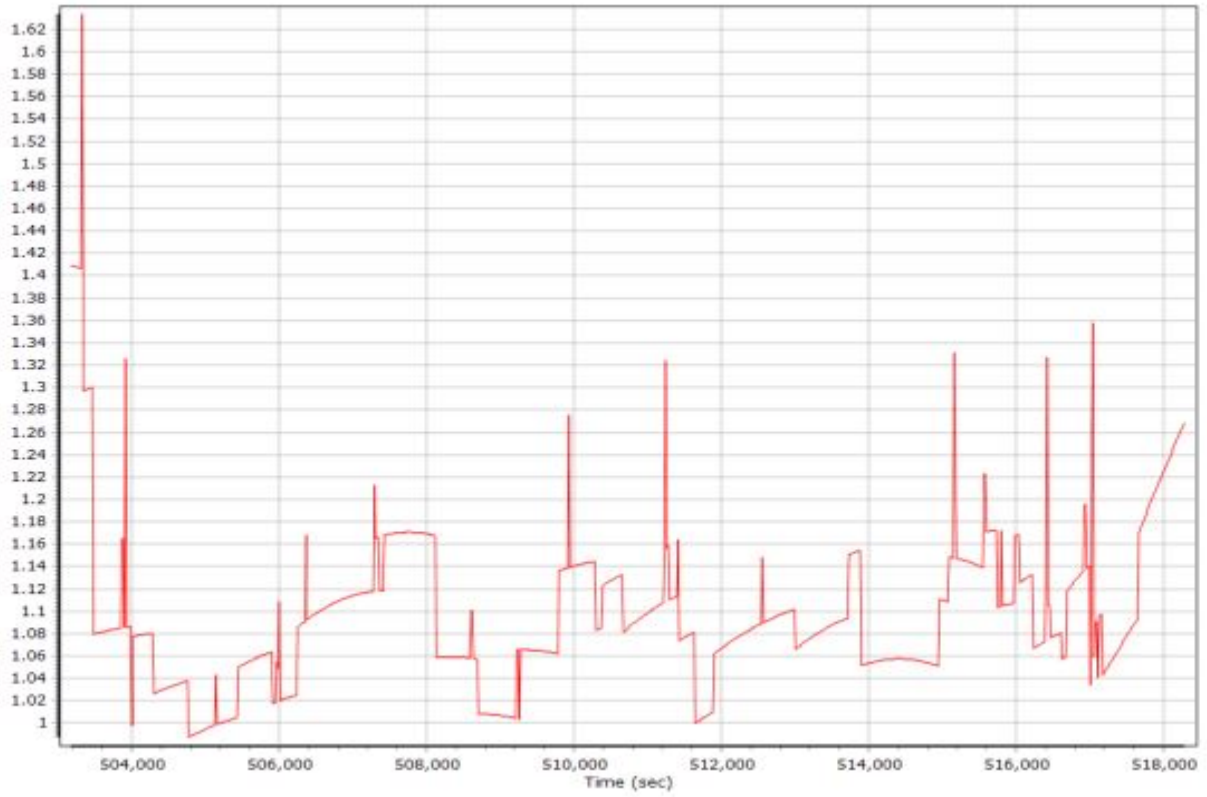
Number of Satellites



Forward/Reverse Separation

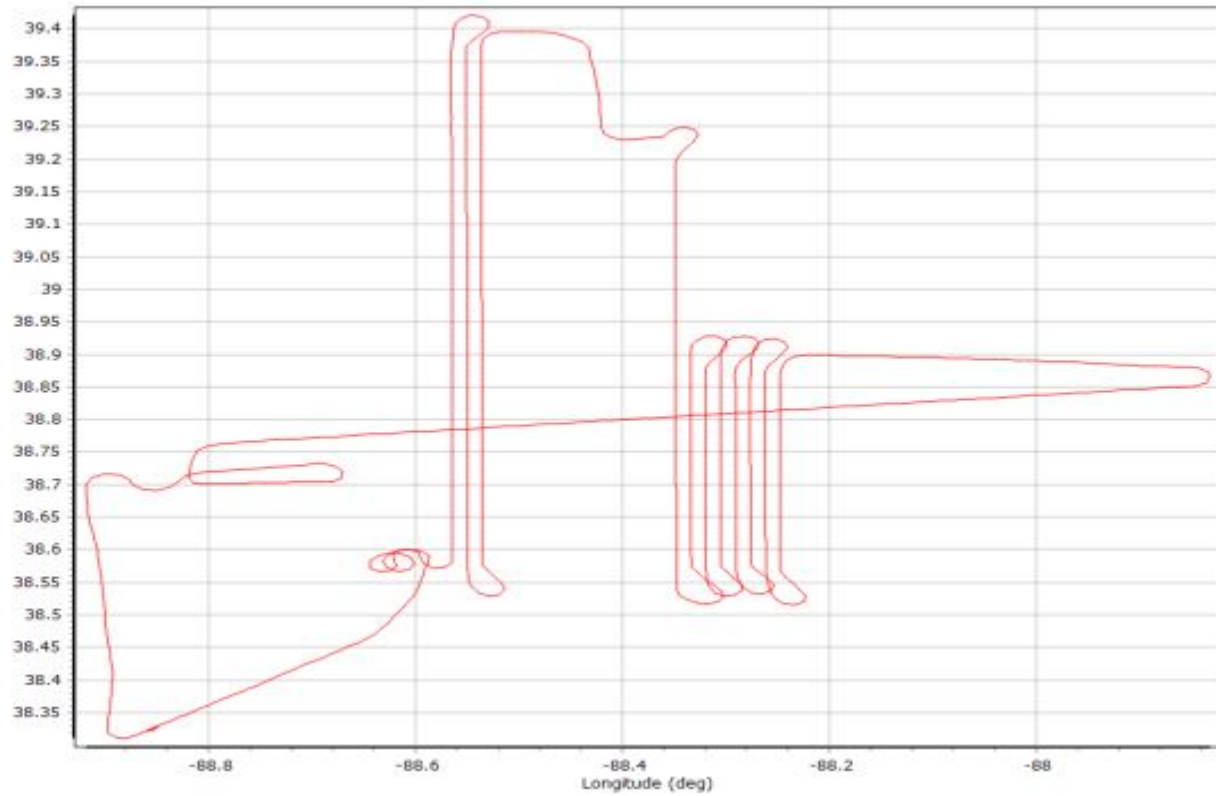


PDOP



040321a448.docx QC Report - 7/05/2021 09:43:33
Smoothed Trajectory Information

Top View

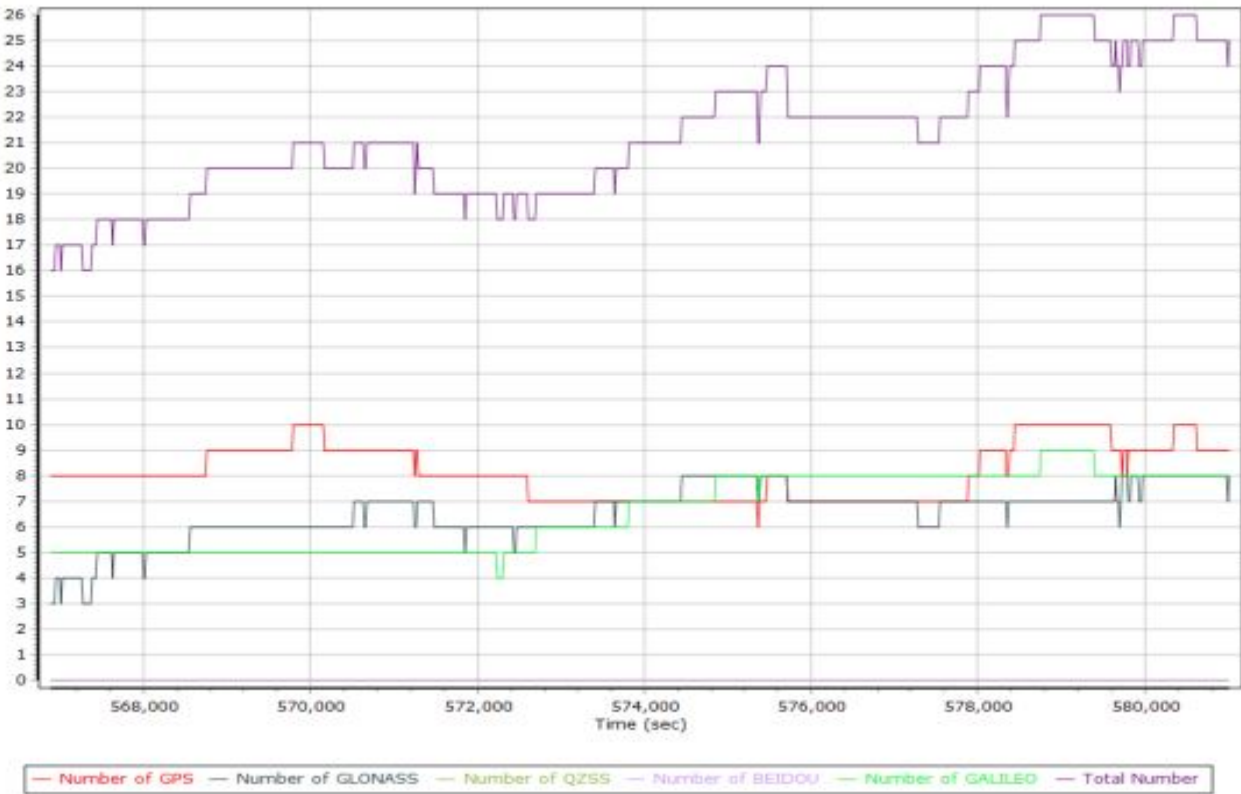


GNSS QC

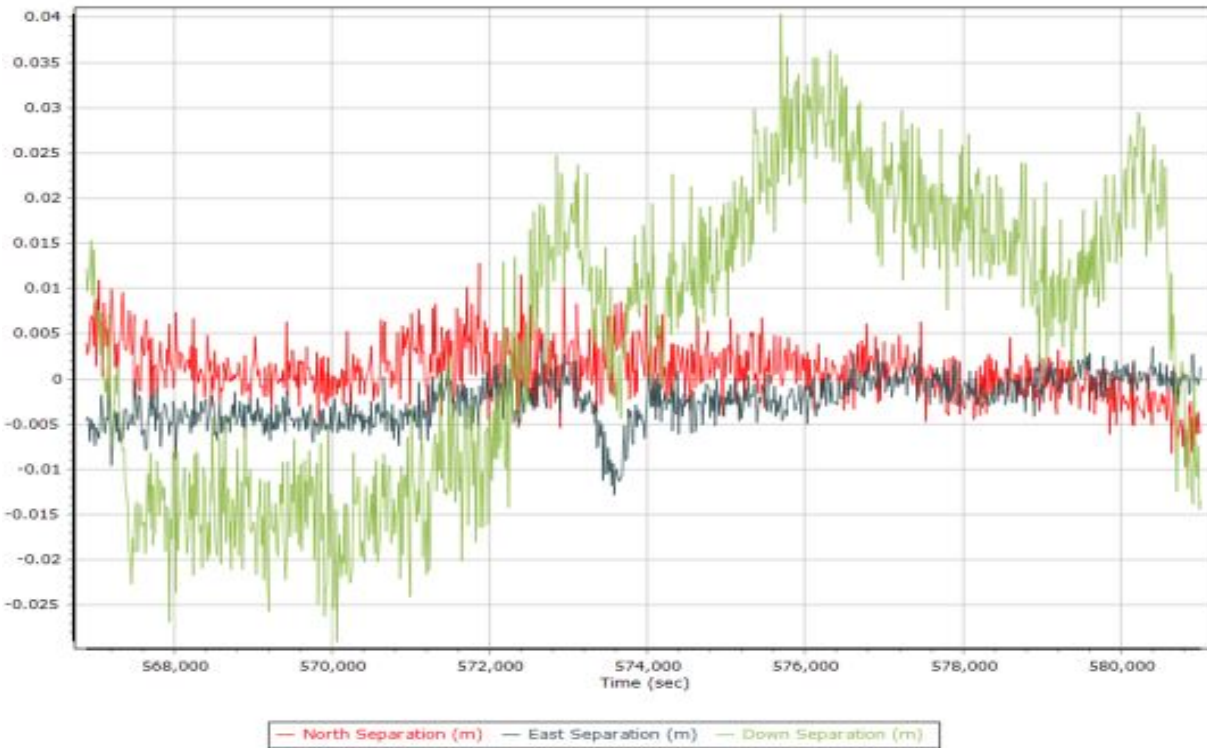
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	4	10	8
Number of GLONASS SV	3	8	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	9	7
Total number of SV	12	26	21
PDOP	1.03	1.55	1.17
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	14558.00	0.00	0.00
Percentage	100.00	0.00	0.00

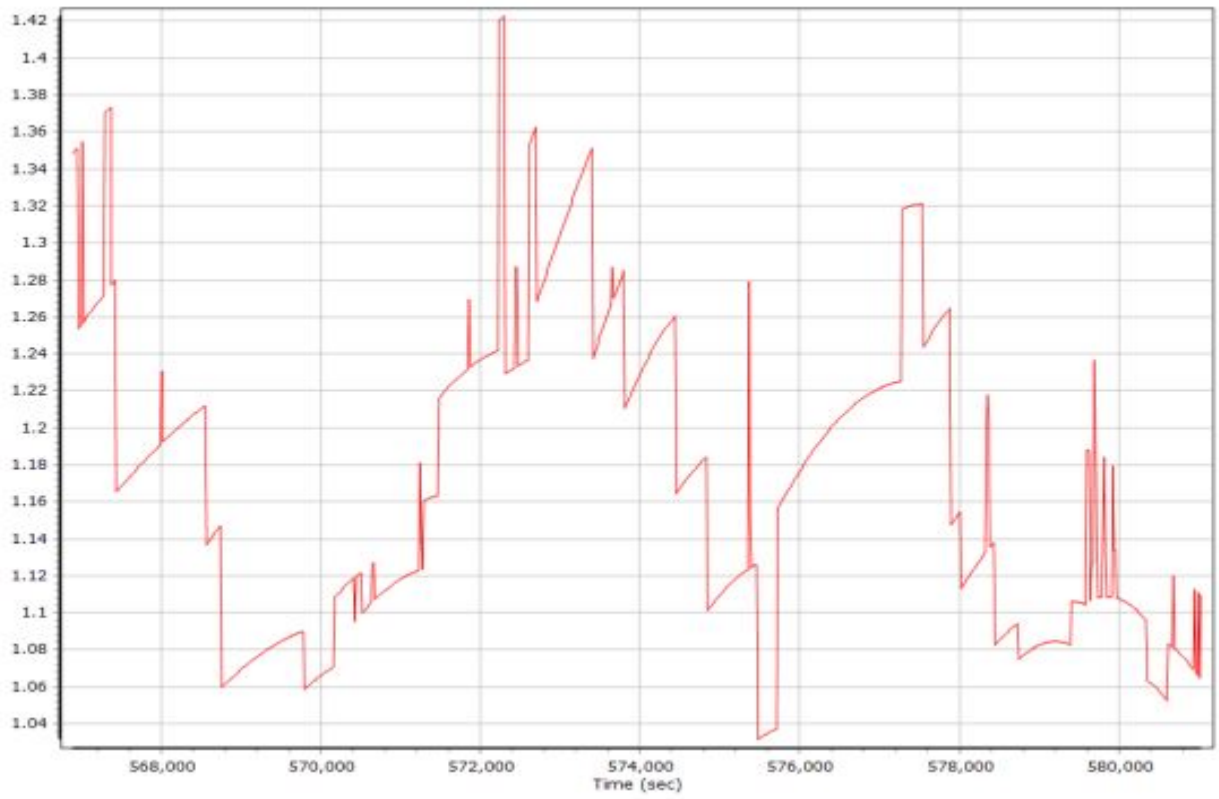
Number of Satellites



Forward/Reverse Separation

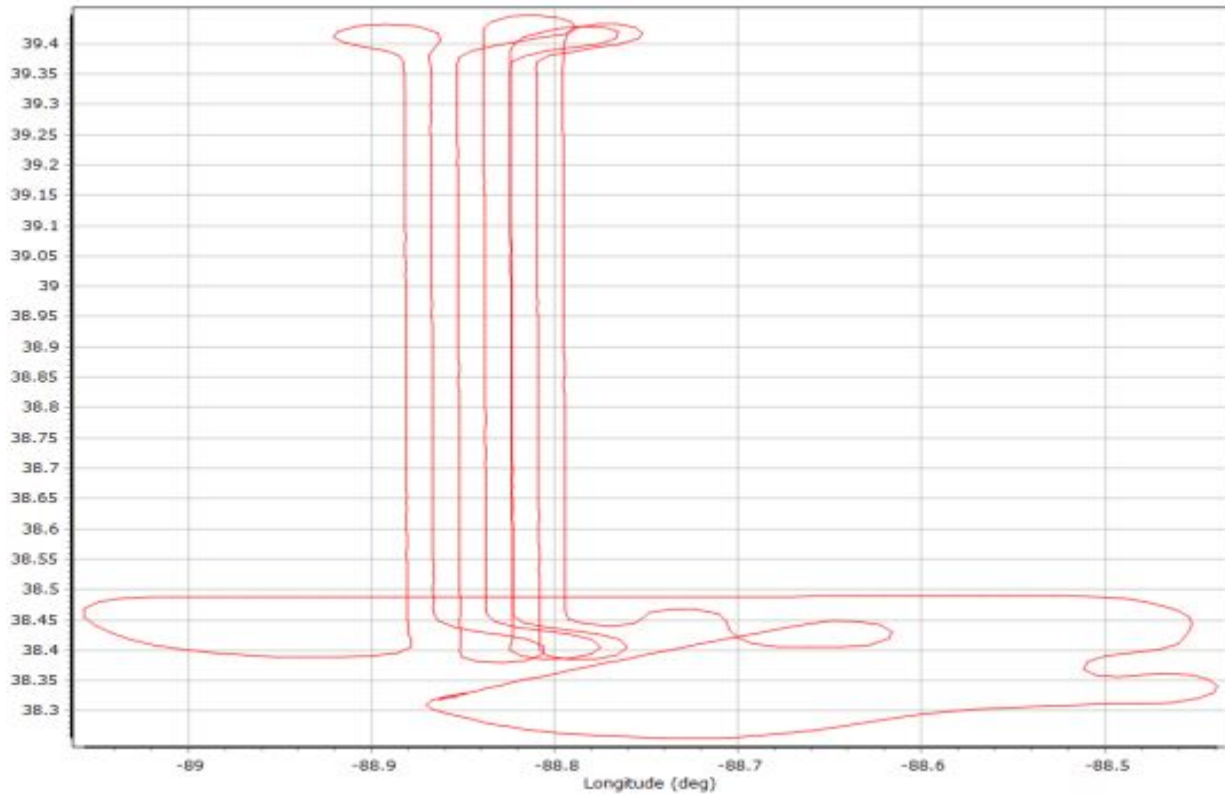


PDOP



040321b386.docx QC Report - 7/05/2021 09:16:05
Smoothed Trajectory Information

Top View

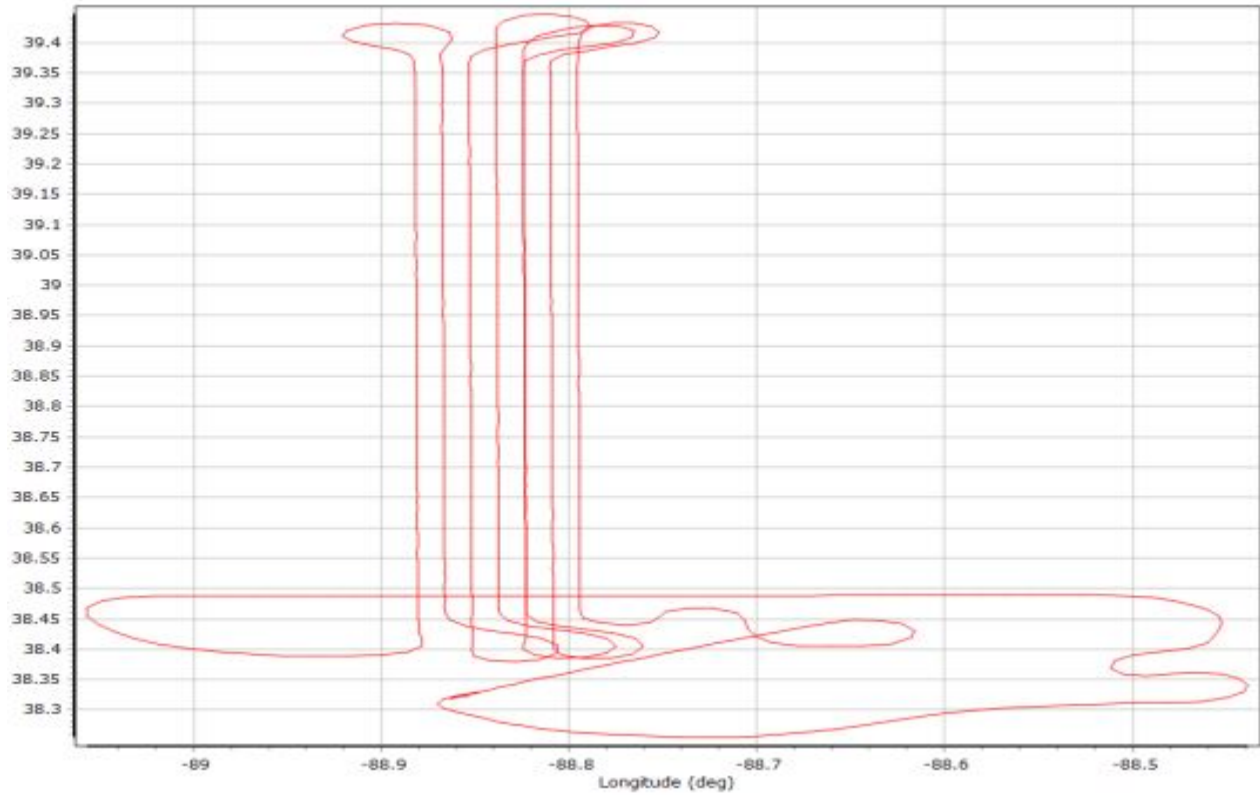


GNSS QC

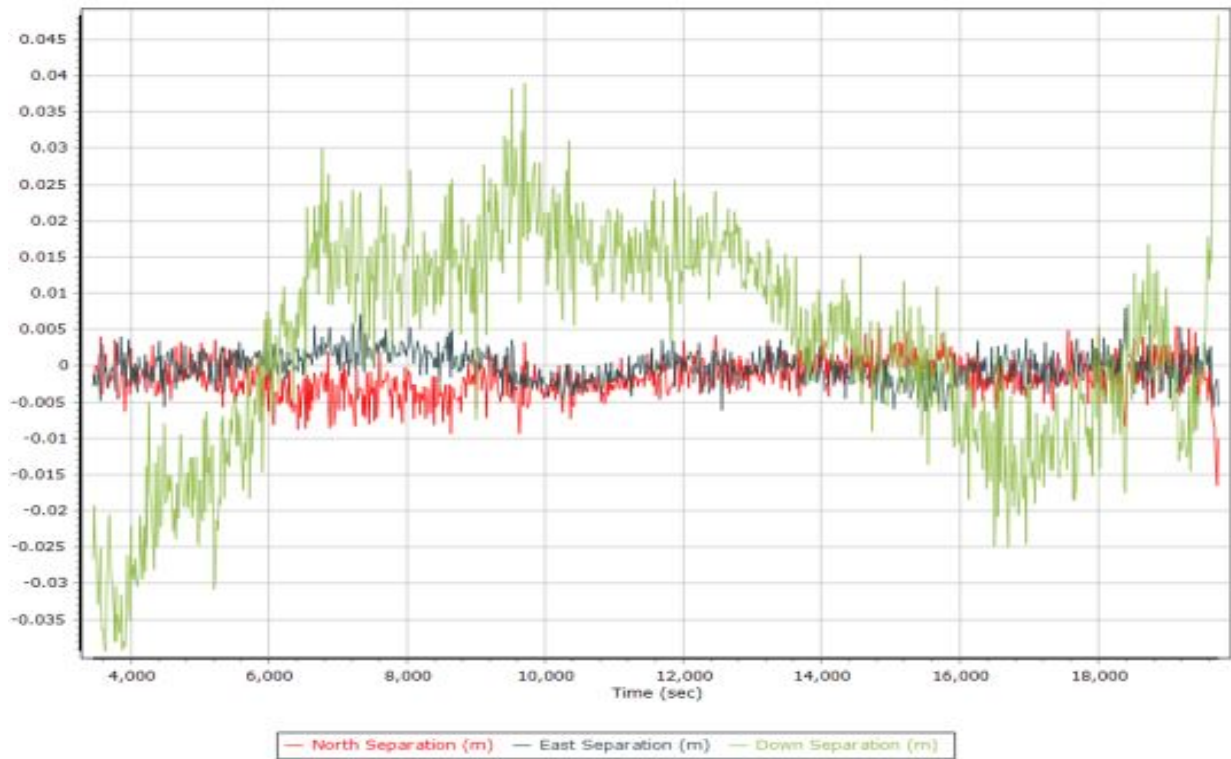
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	10	8
Number of GLONASS SV	0	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	2
Number of GALILEO SV	2	8	6
Total number of SV	14	23	20
PDOP	1.07	1.72	1.29
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	16834.00	0.00	0.00
Percentage	100.00	0.00	0.00

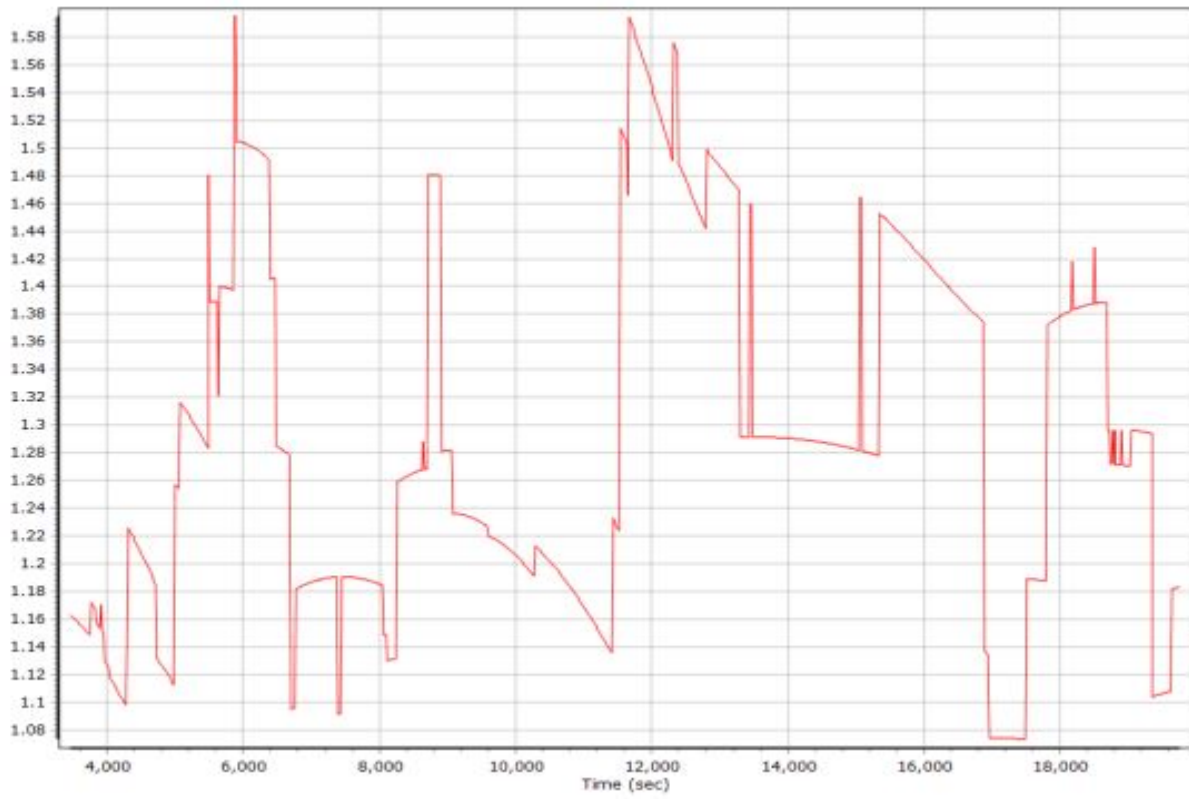
Number of Satellites



Forward/Reverse Separation

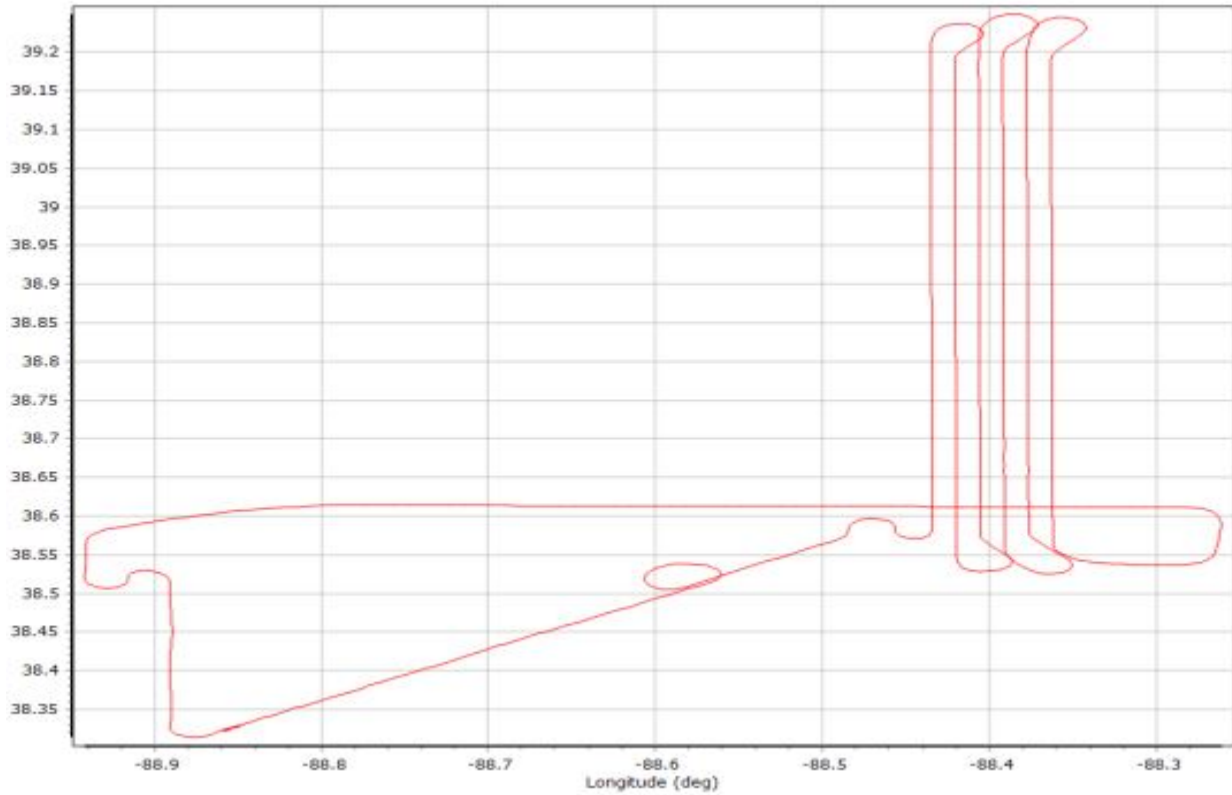


PDOP



040321b448.docx QC Report - 7/5/2021 09:45:16
Smoothed Trajectory Information

Top View

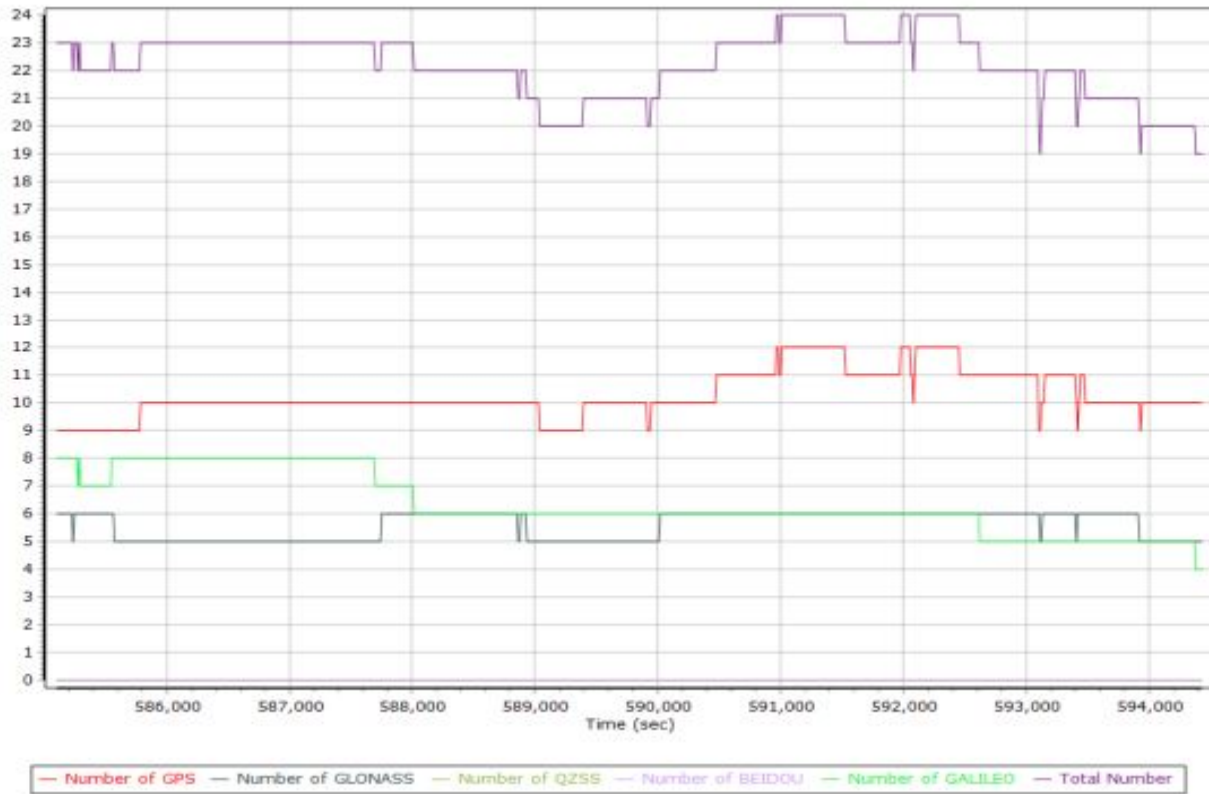


GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	8	12	10
Number of GLONASS SV	5	6	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	8	6
Total number of SV	19	24	22
PDOP	0.95	1.63	1.13
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	9723.00	0.00	0.00
Percentage	100.00	0.00	0.00

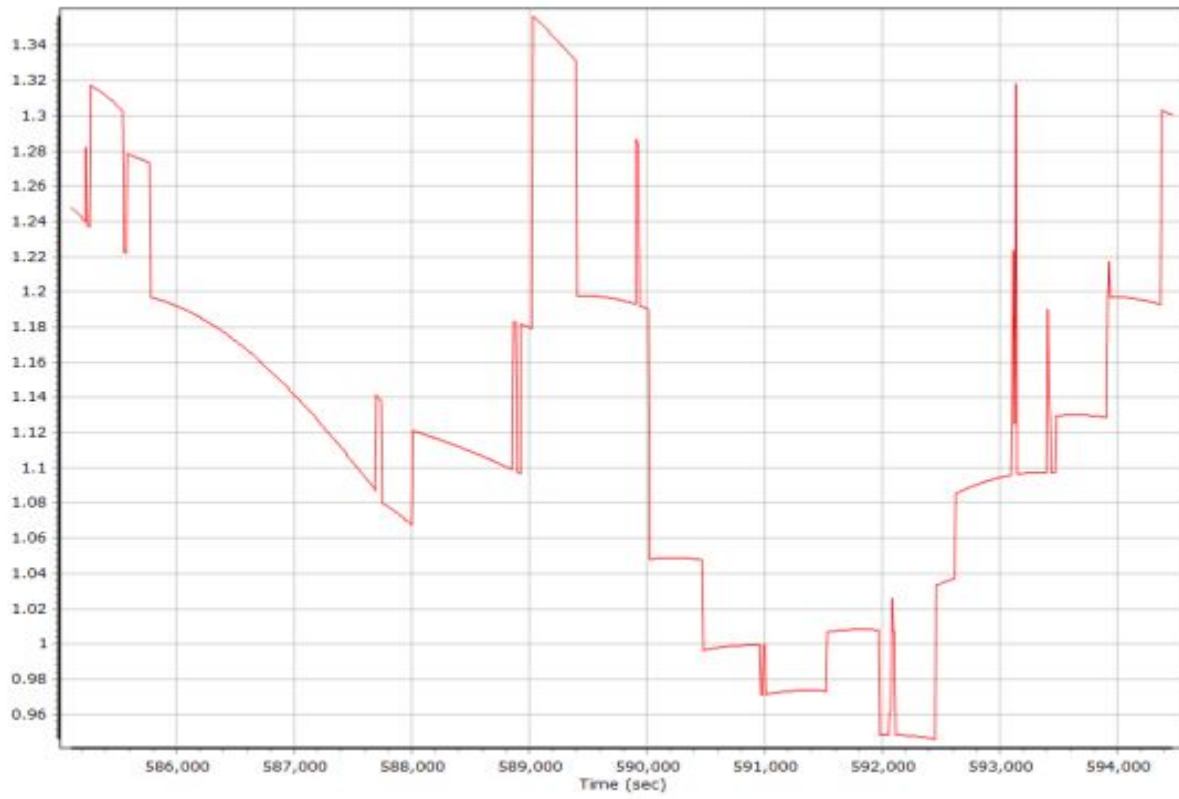
Number of Satellites



Forward/Reverse Separation

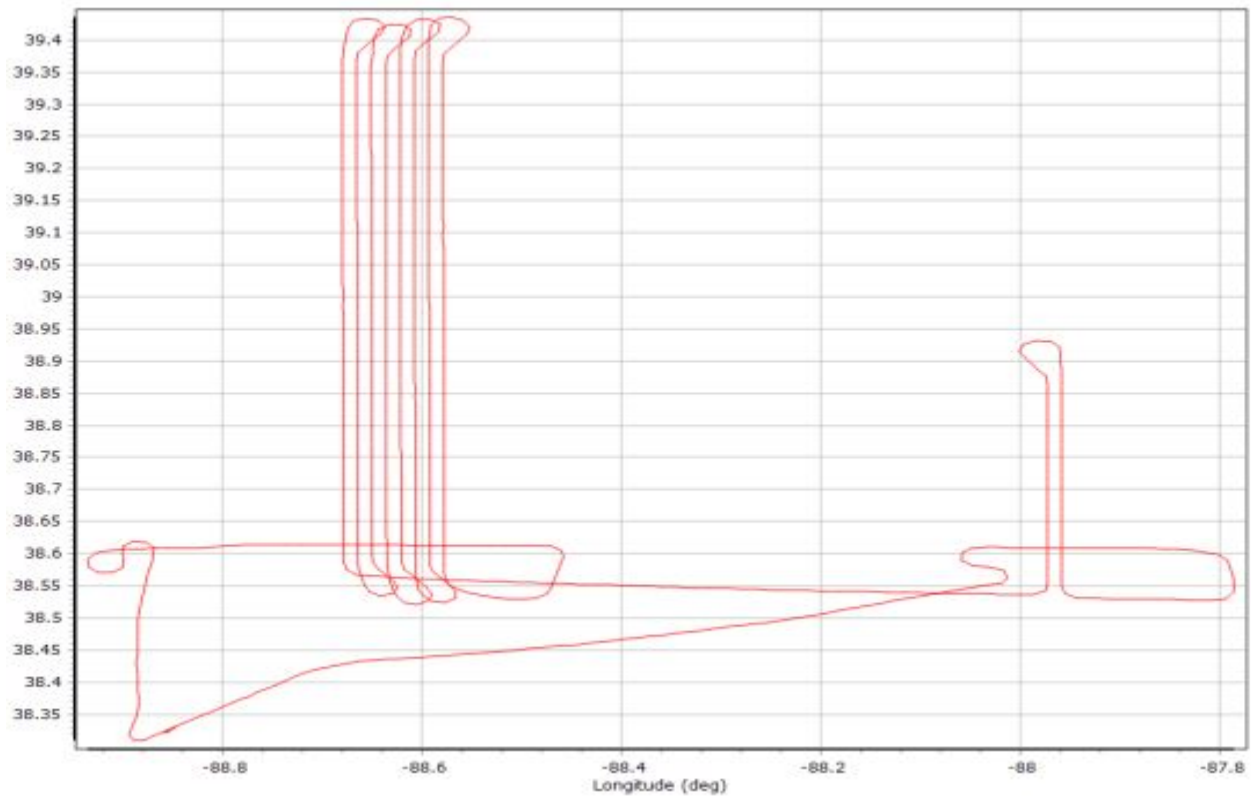


PDOP



040421a448.docx QC Report - 7/05/2021 09:46:25
Smoothed Trajectory Information

Top View



GNSS QC

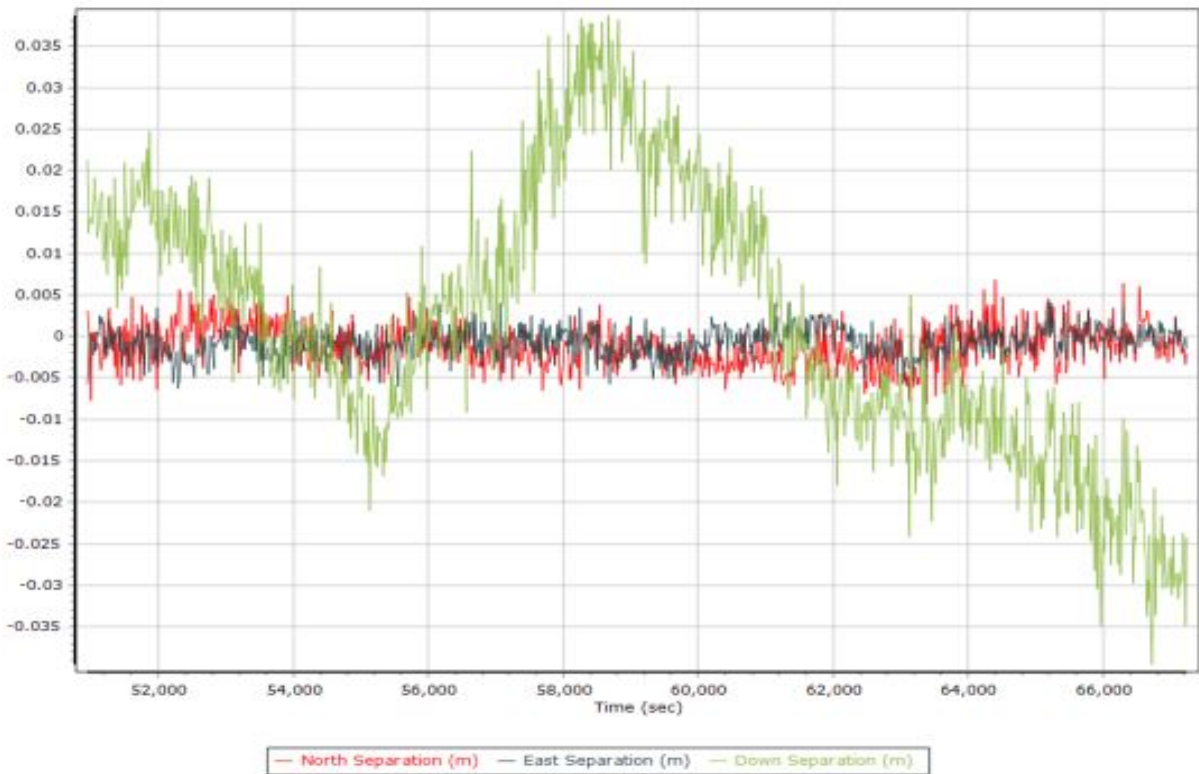
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	11	9
Number of GLONASS SV	5	8	7
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	4	7	6
Total number of SV	17	24	21
PDOP	1.04	1.62	1.24
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	16720.00	0.00	0.00
Percentage	100.00	0.00	0.00

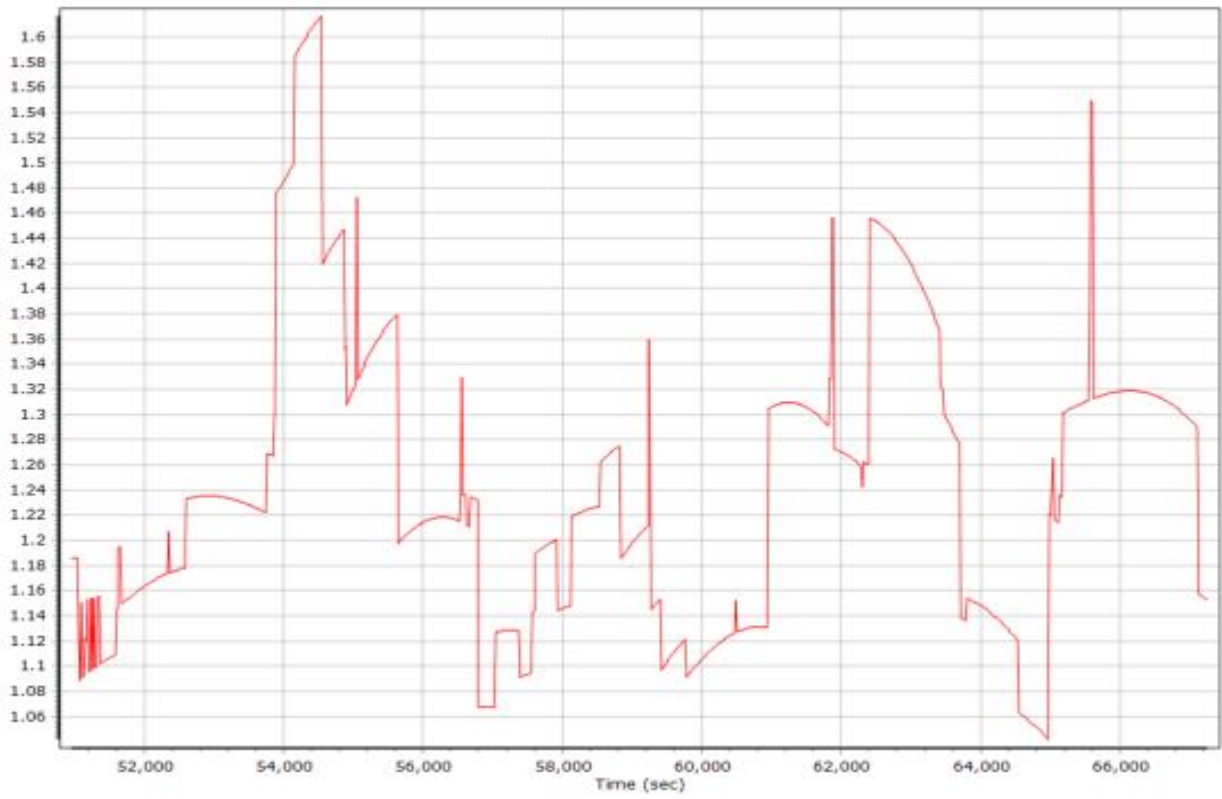
Number of Satellites



Forward/Reverse Separation

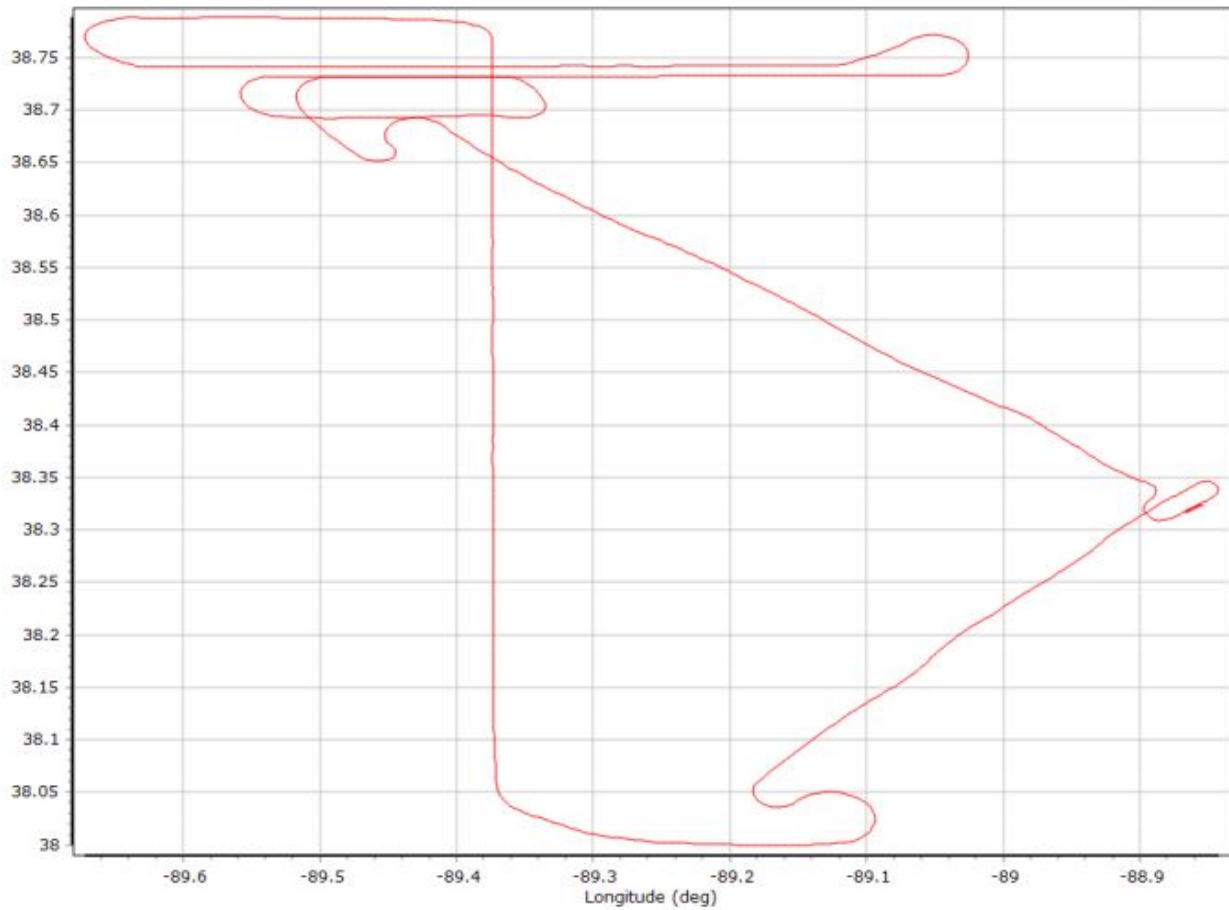


PDOP



210306A.docx QC Report - 6/28/2021 14:40:35
Smoothed Trajectory Information

Top View

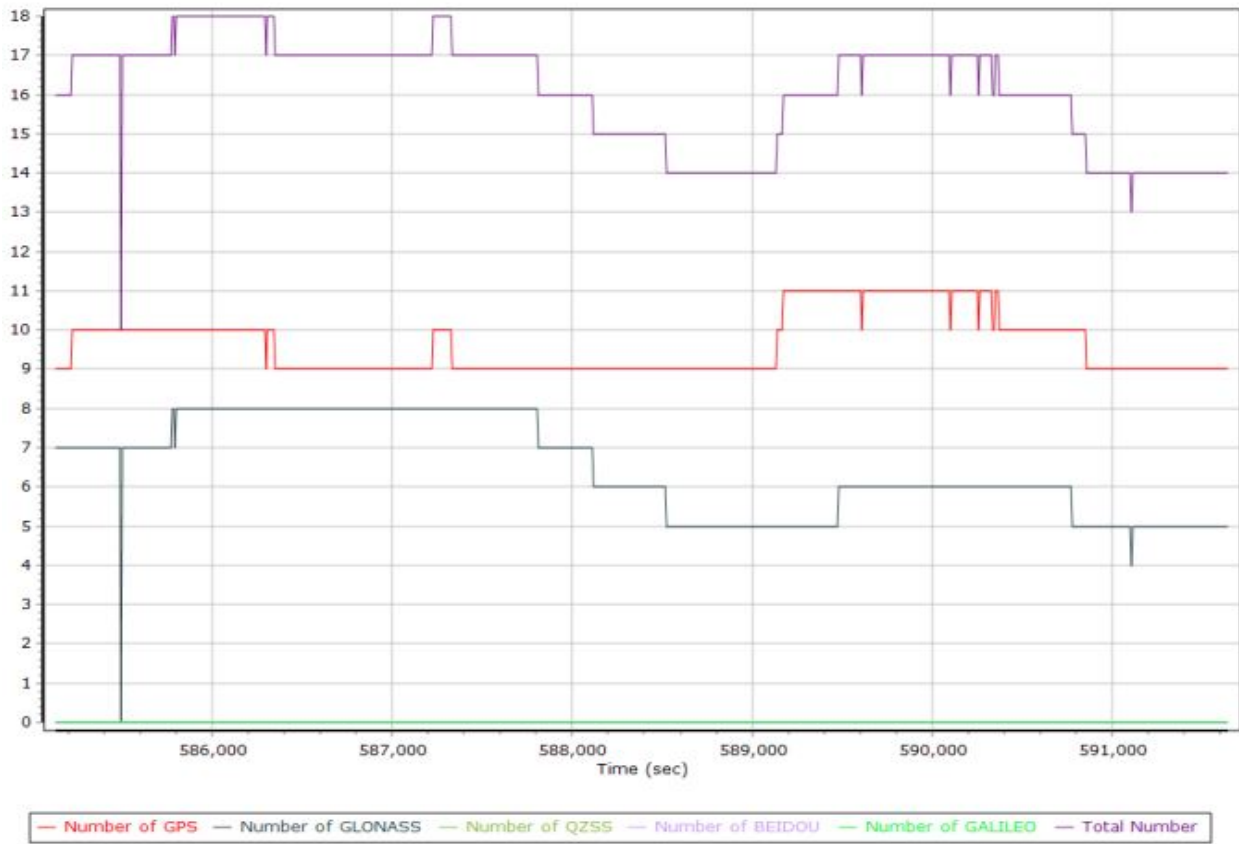


GNSS QC

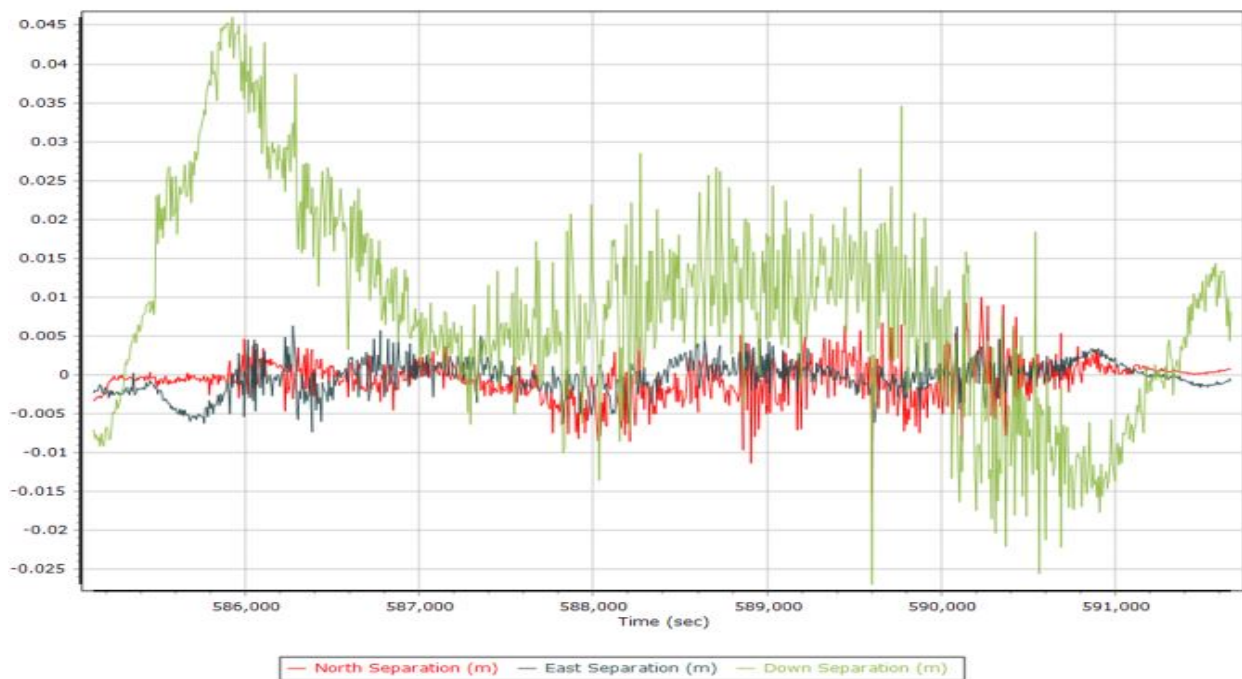
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.03	87.09	
Number of GPS SV	8	11	10
Number of GLONASS SV	0	8	7
PDOP	1.17	1.67	1.34
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	7052.00	0.00	1.00
Percentage	99.99	0.00	0.01

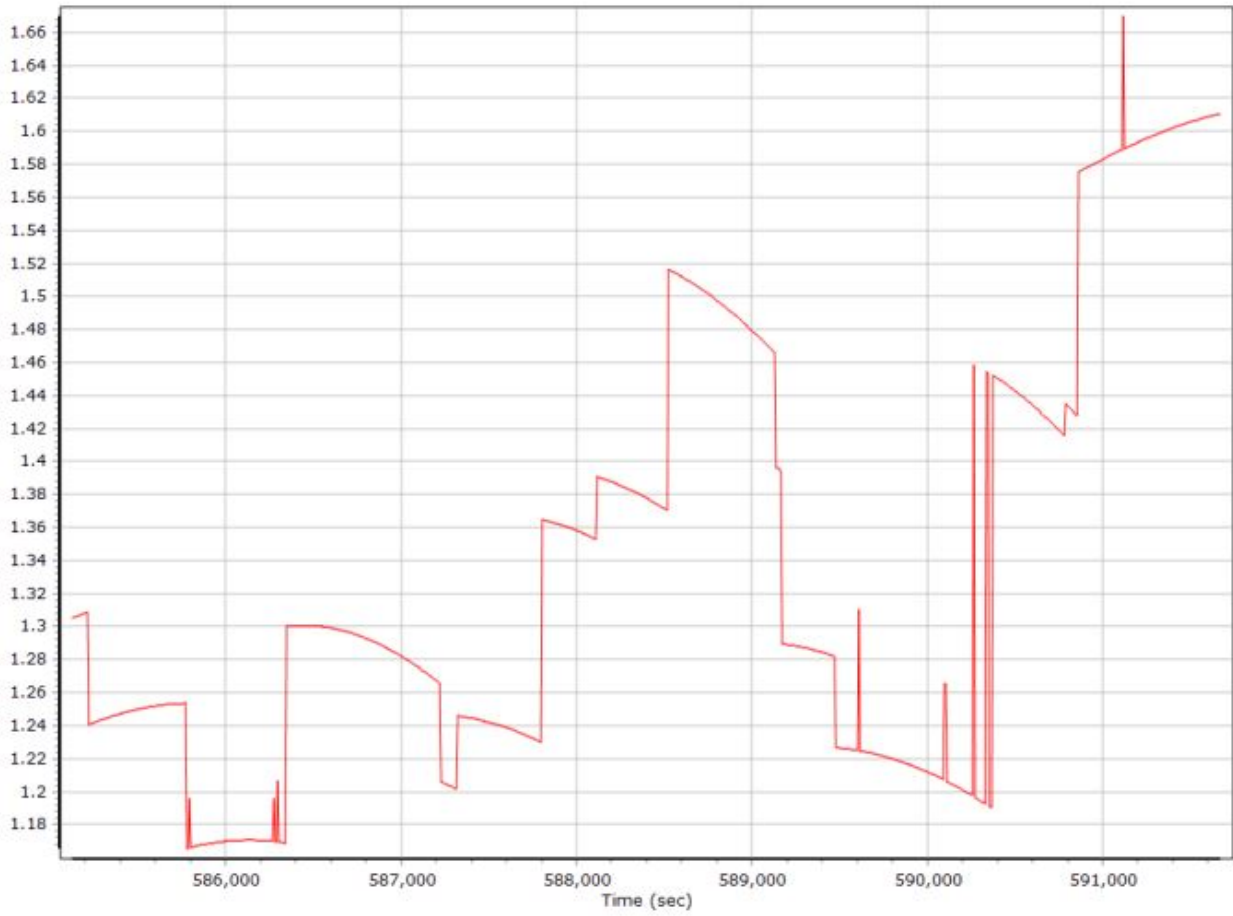
Number of Satellites



Forward/Reverse Separation

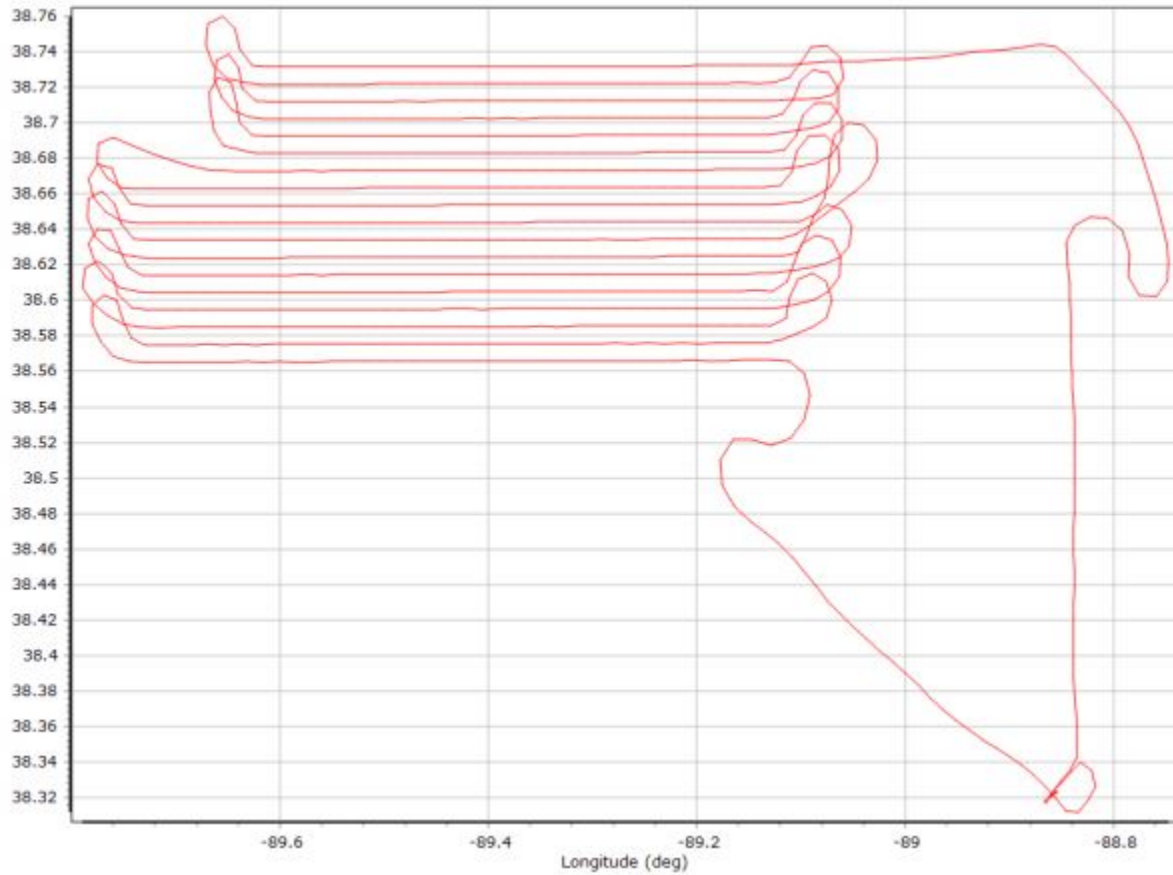


PDOP



210307A.docx QC Report - 6/28/2021 14:43:35
Smoothed Trajectory Information

Top View

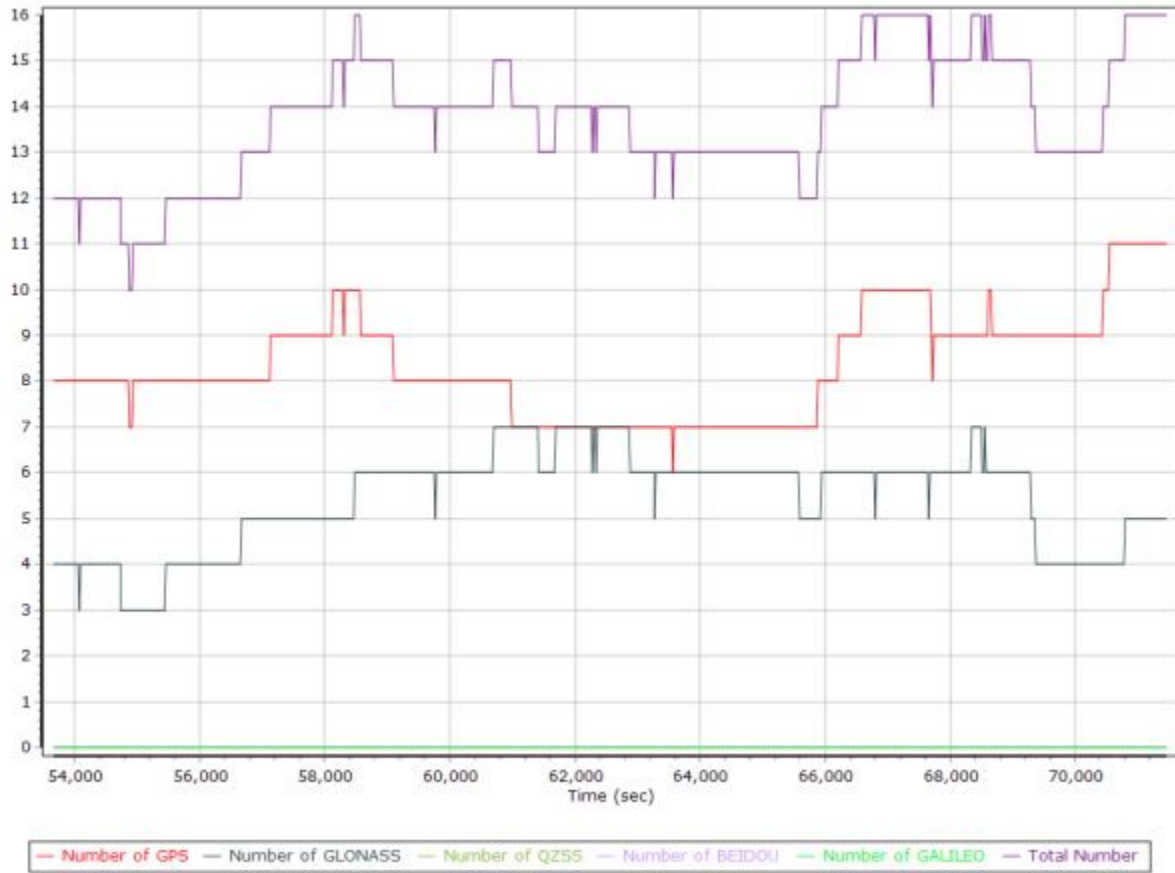


GNSS QC

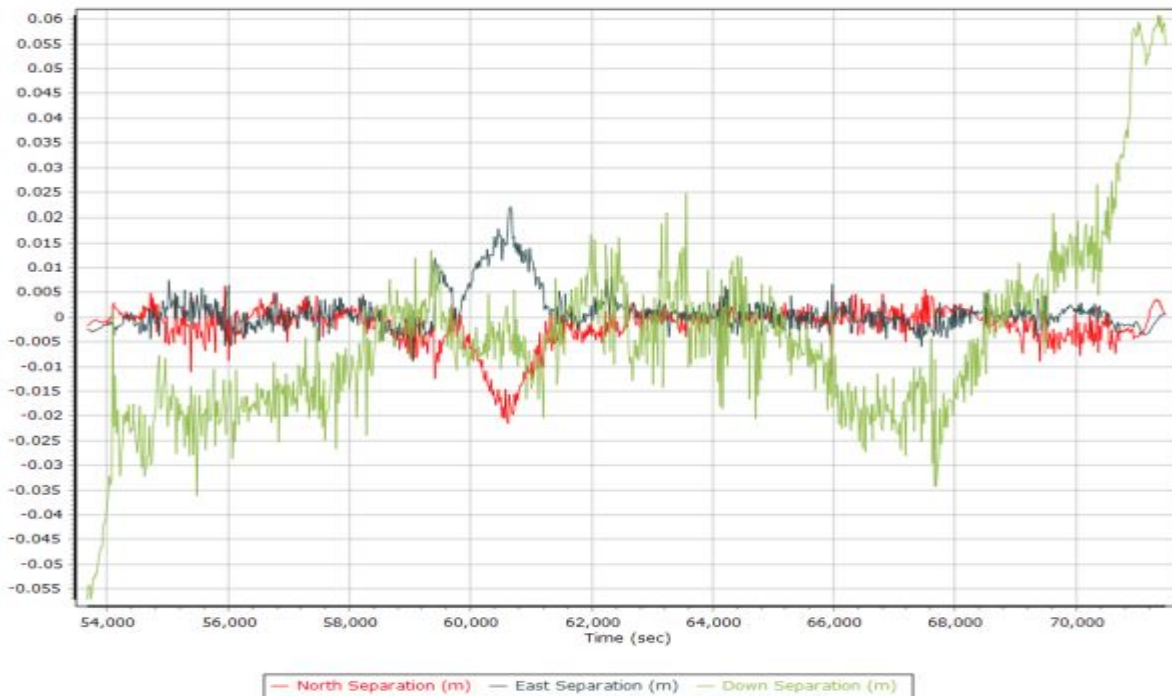
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.05	89.89	
Number of GPS SV	6	11	8
Number of GLONASS SV	0	7	5
PDOP	1.22	2.86	1.50
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	18259.00	0.00	1.00
Percentage	99.99	0.00	0.01

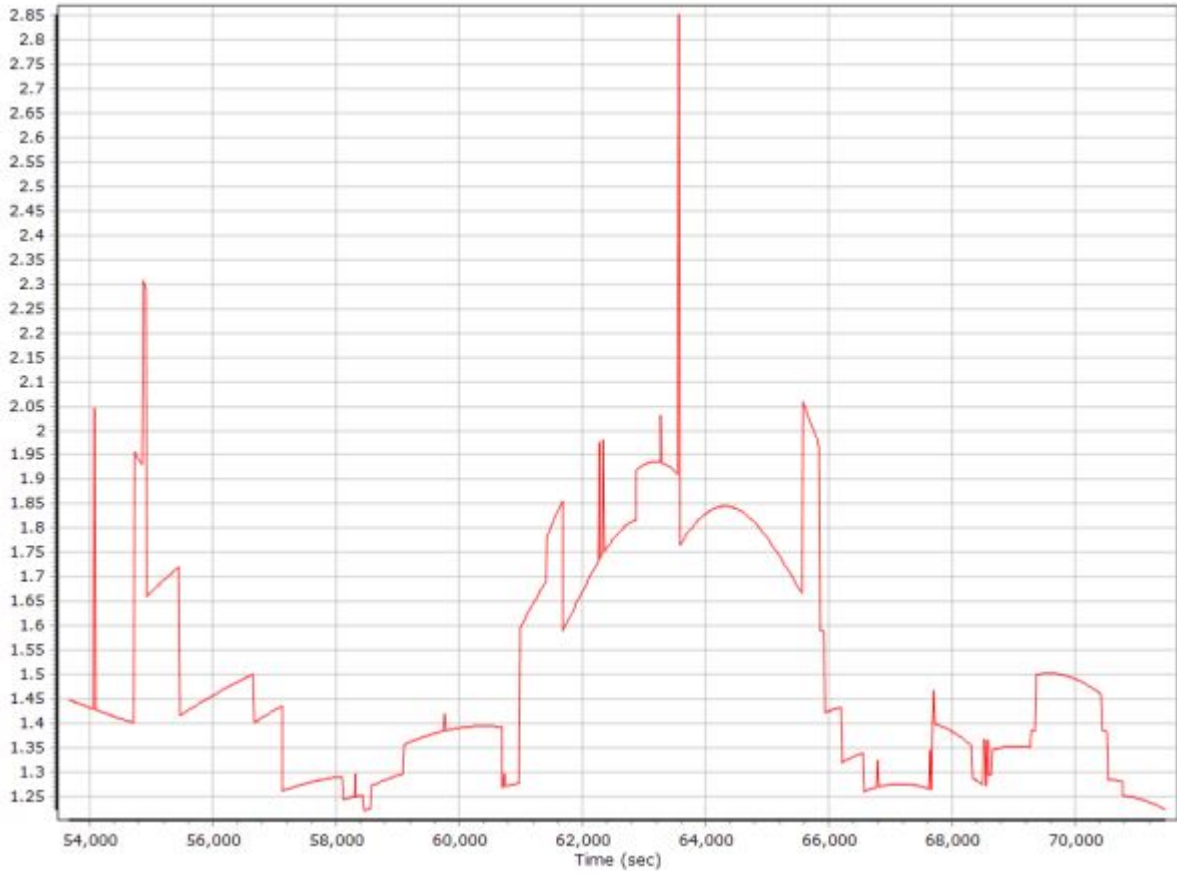
Number of Satellites



Forward/Reverse Separation



PDOP



210307B.docx QC Report - 6/28/2021 14:57:31
Smoothed Trajectory Information

Top View

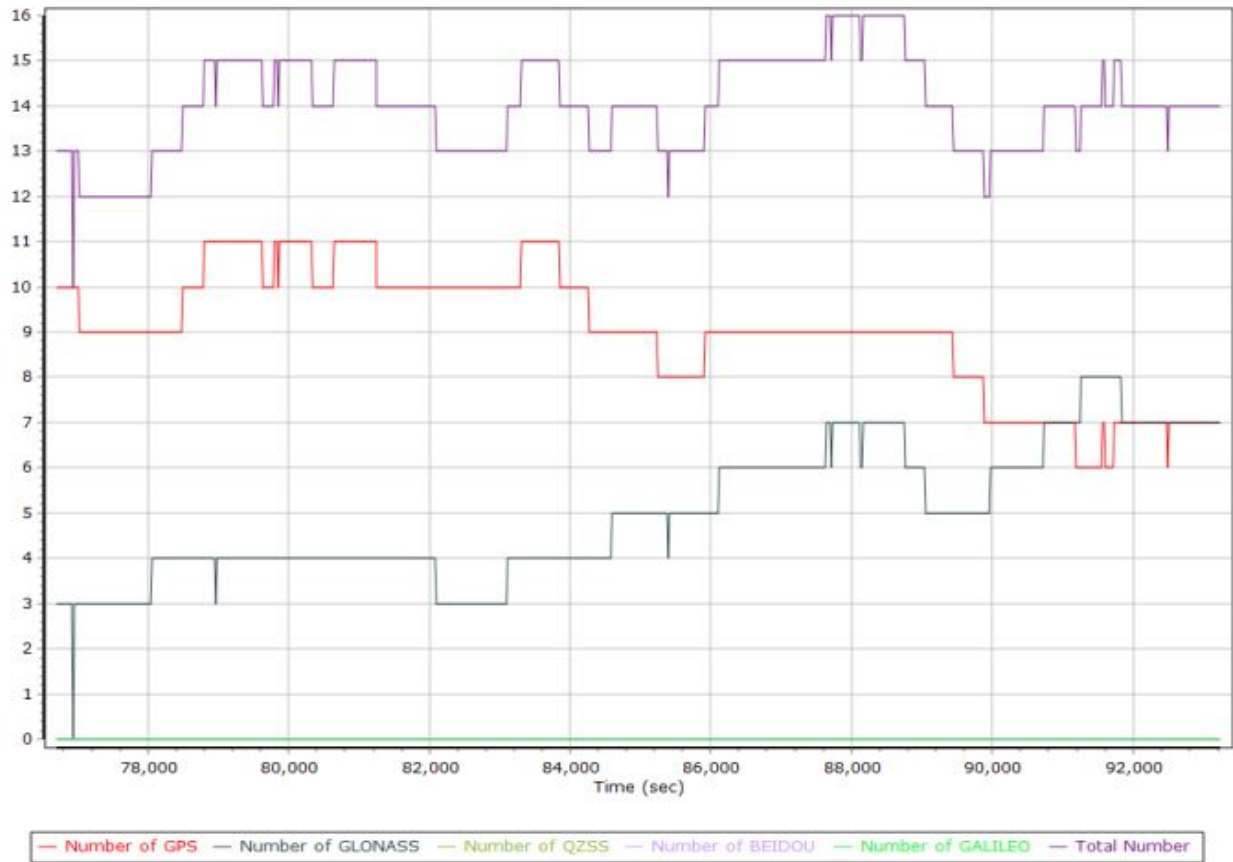


GNSS QC

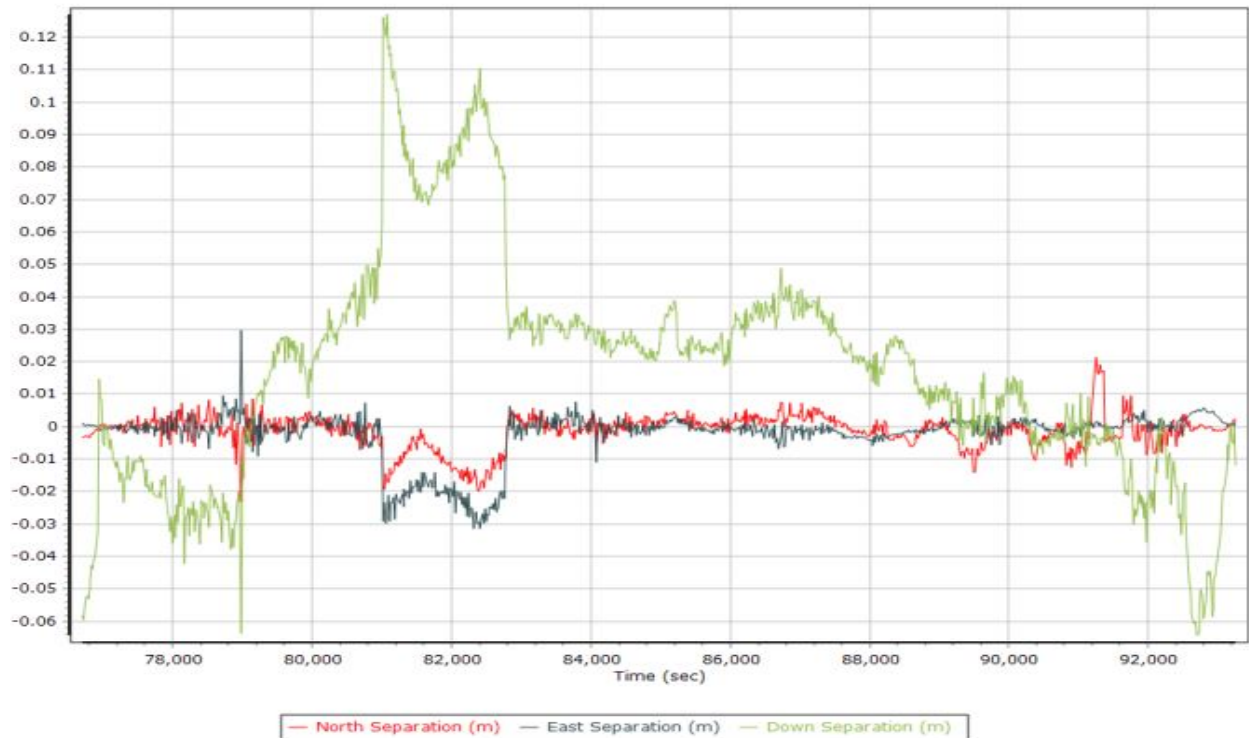
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.03	85.46	
Number of GPS SV	6	11	9
Number of GLONASS SV	0	8	5
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	10	16	14
PDOP	1.22	1.98	1.46
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	17007.00	0.00	1.00
Percentage	99.99	0.00	0.01

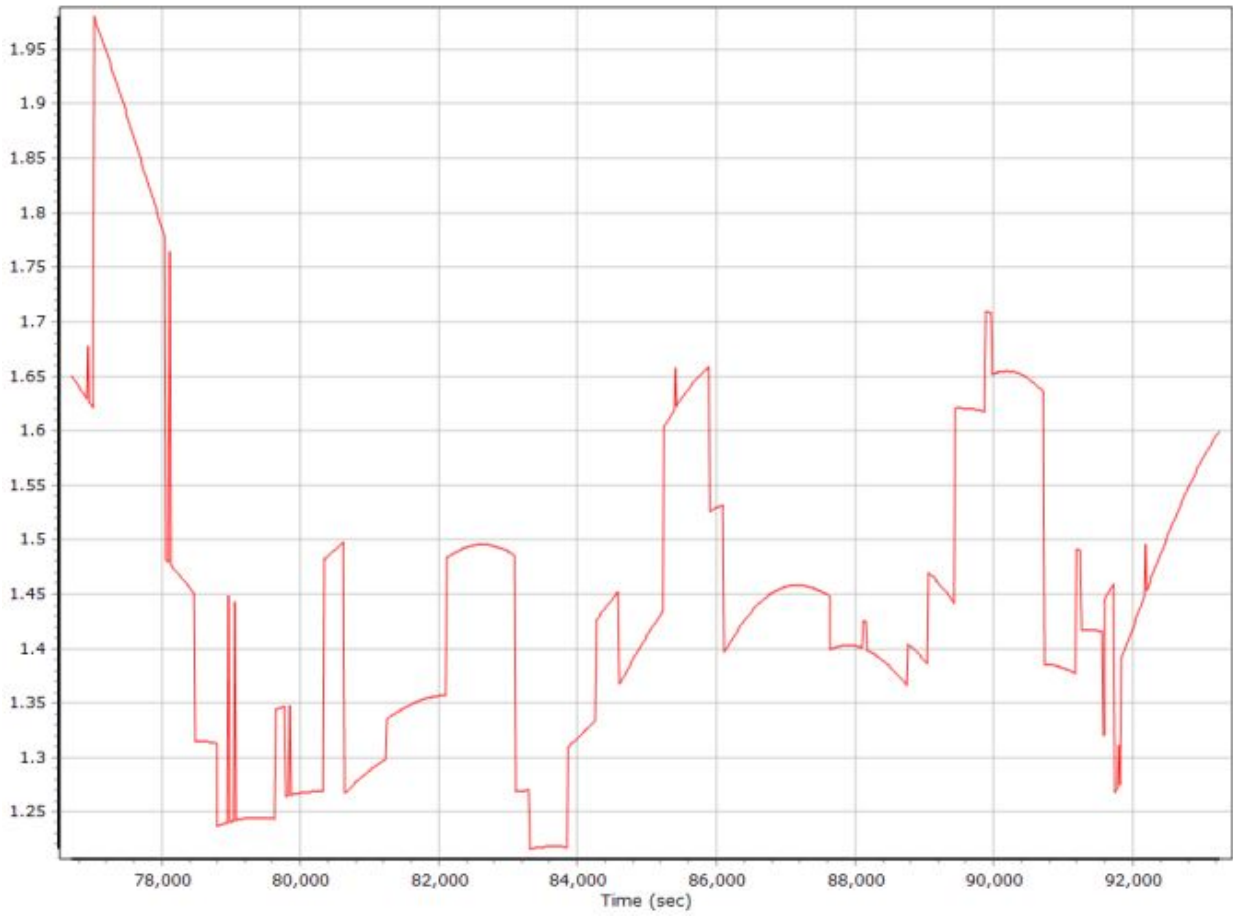
Number of Satellites



Forward/Reverse Separation

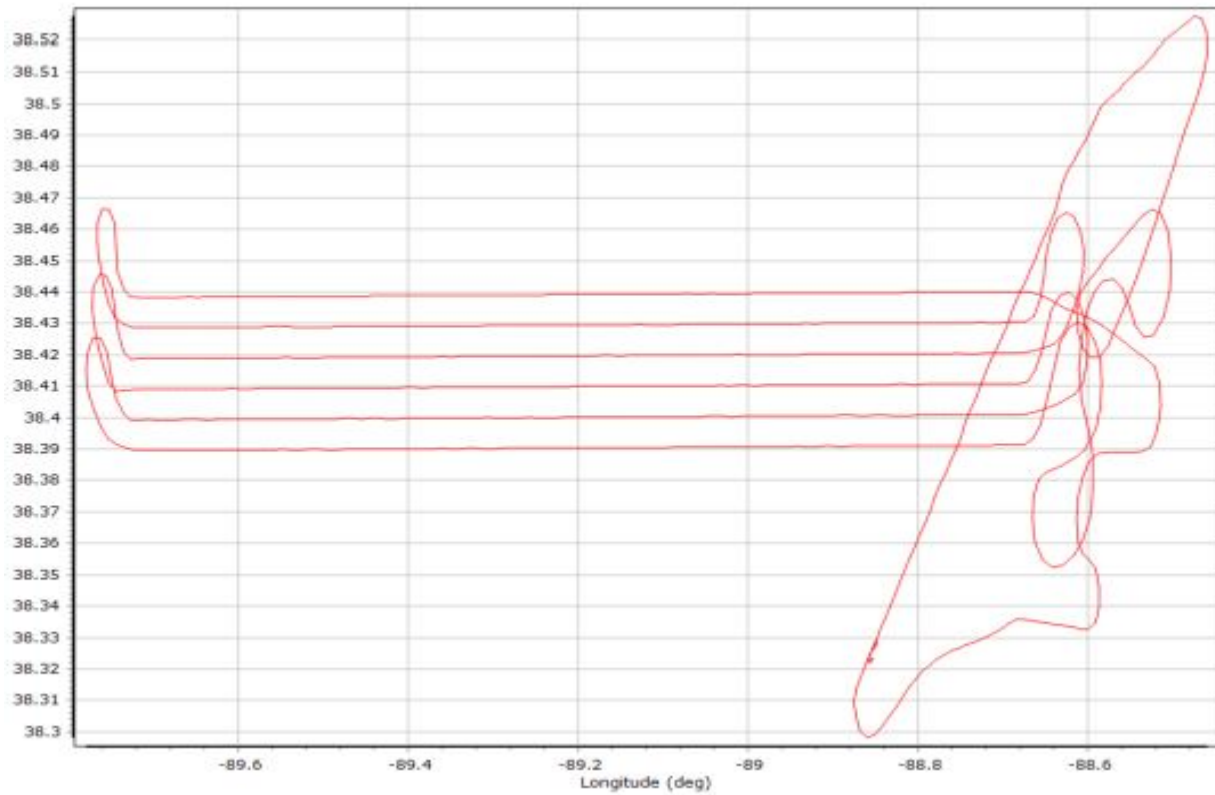


PDOP



210308A.docx QC Report - 6/28/2021 15:10:22
Smoothed Trajectory Information

Top View

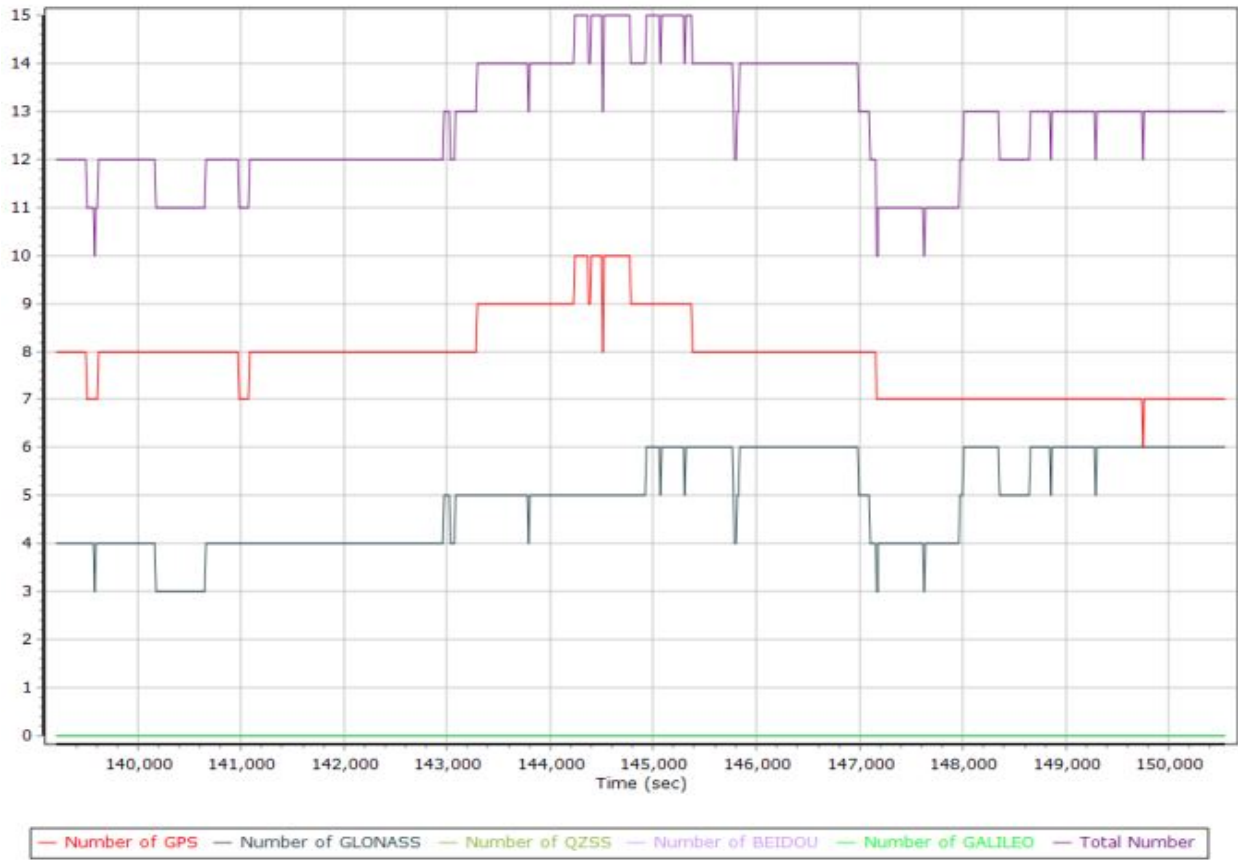


GNSS QC

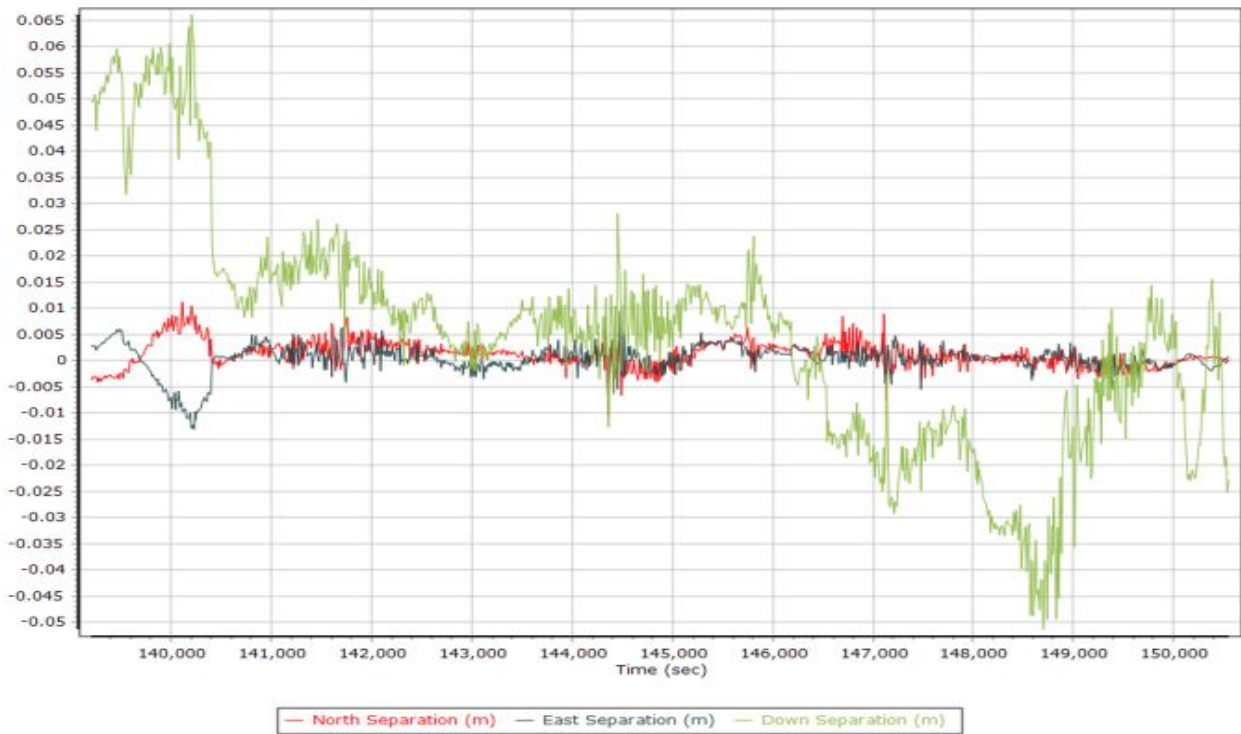
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.06	81.56	
Number of GPS SV	6	10	8
Number of GLONASS SV	0	6	5
PDOP	1.23	2.59	1.63
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	11774.00	0.00	1.00
Percentage	99.99	0.00	0.01

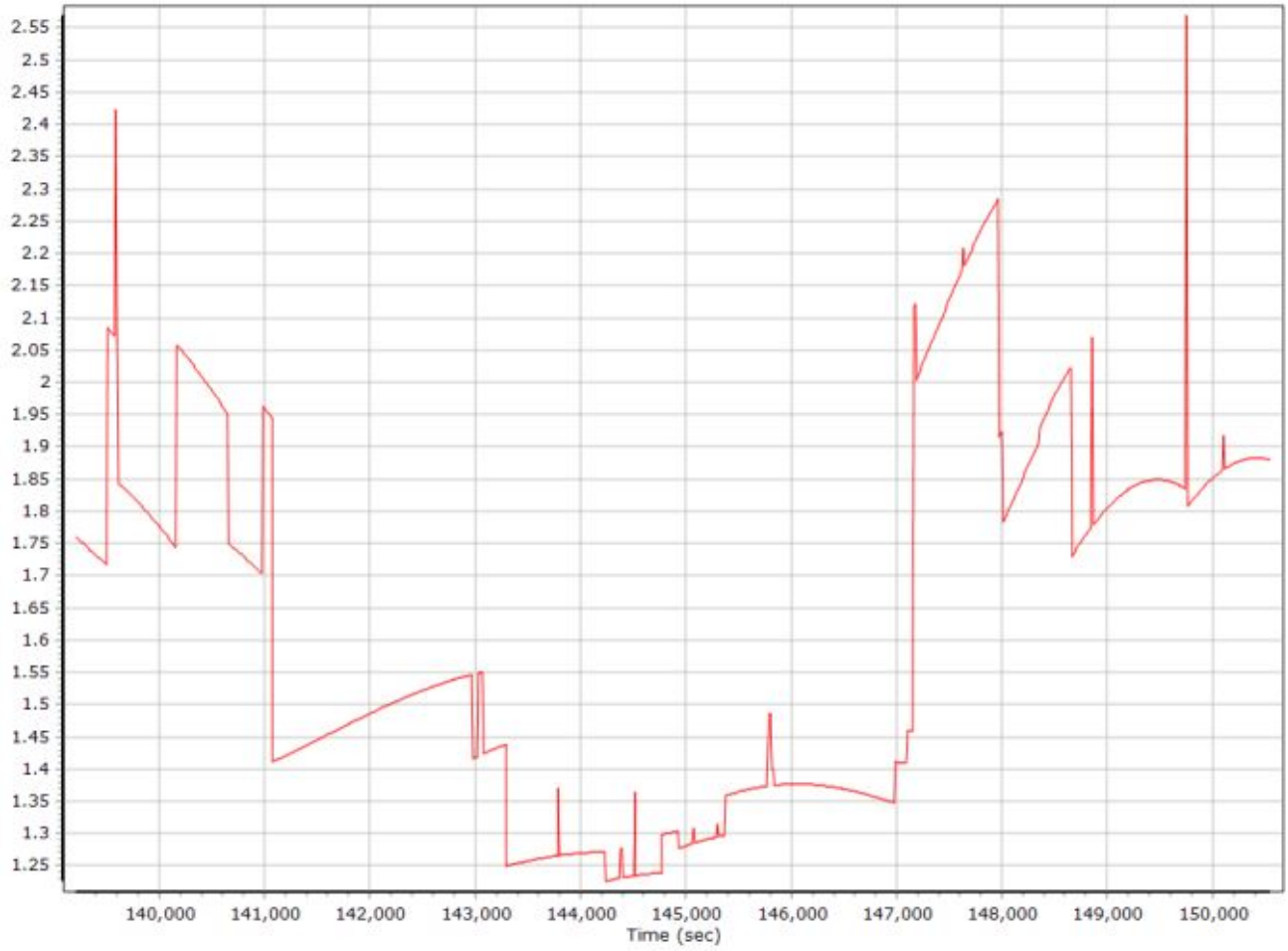
Number of Satellites



Forward/Reverse Separation

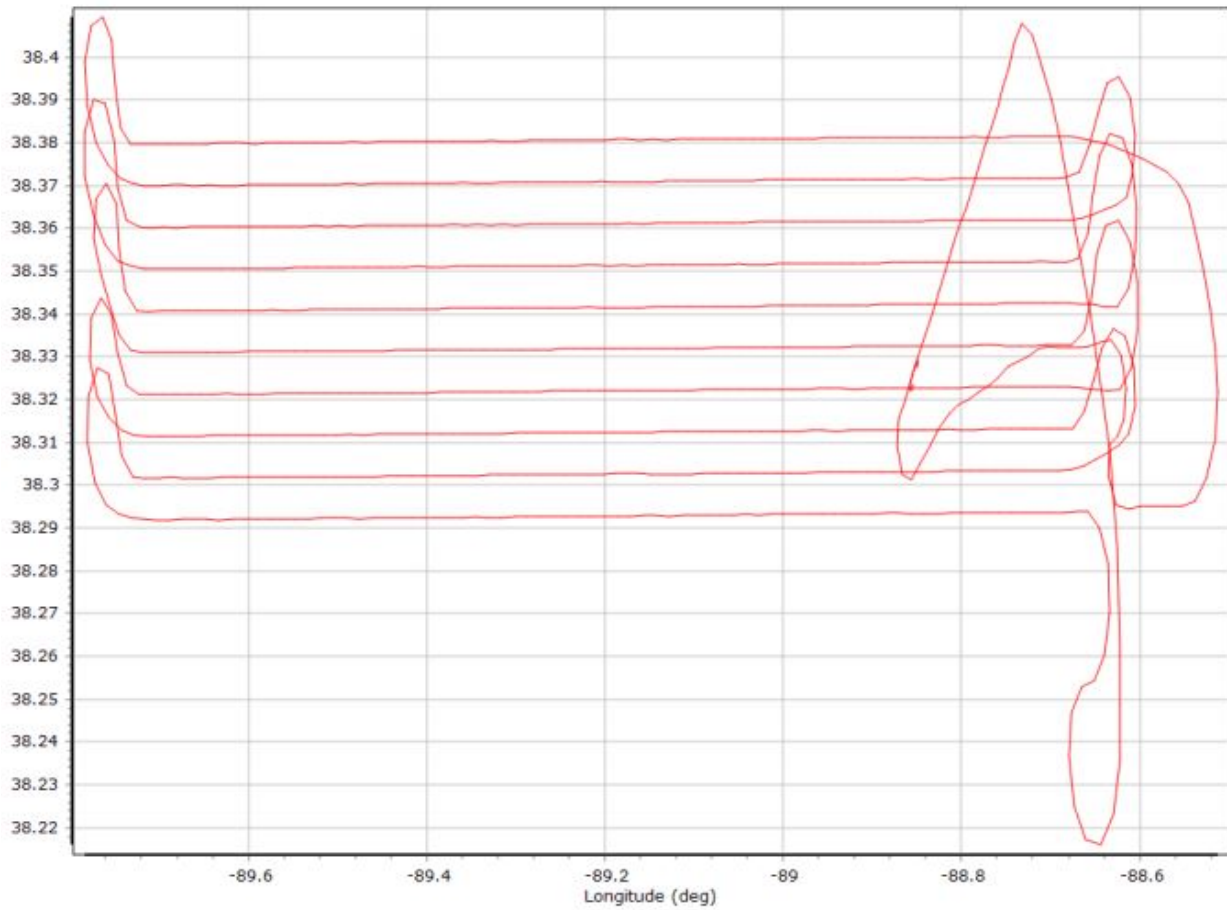


PDOP



210308B.docx QC Report - 6/28/2021 15:10:22
Smoothed Trajectory Information

Top View

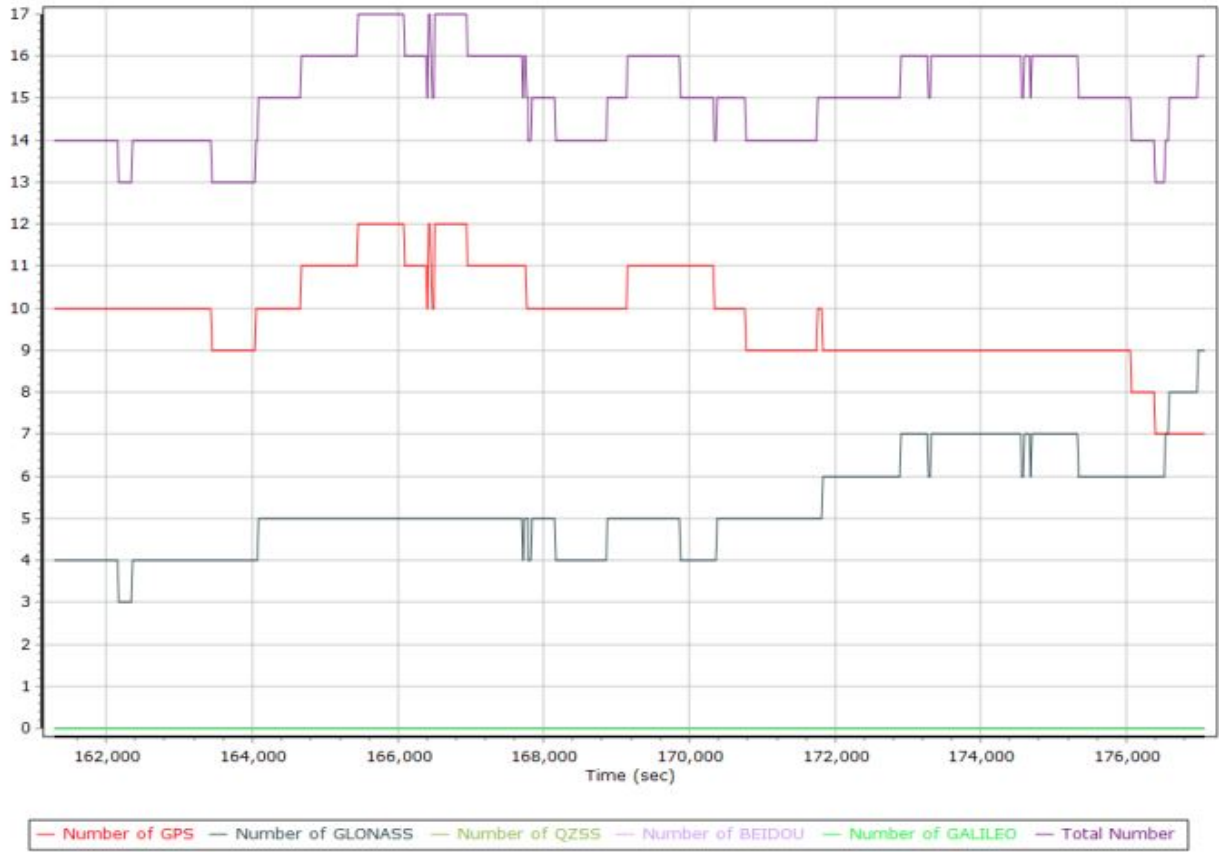


GNSS QC

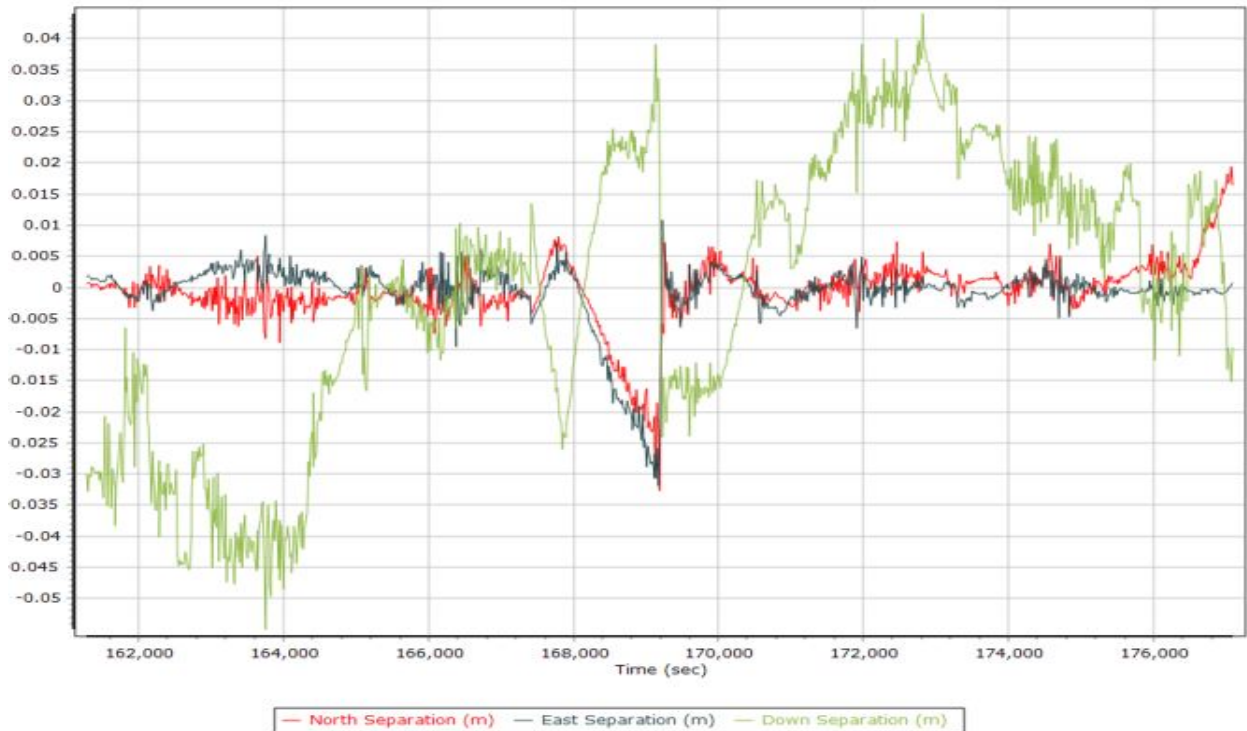
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.04	81.67	
Number of GPS SV	7	12	10
Number of GLONASS SV	0	9	5
PDOP	1.11	1.82	1.34
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	16268.00	0.00	1.00
Percentage	99.99	0.00	0.01

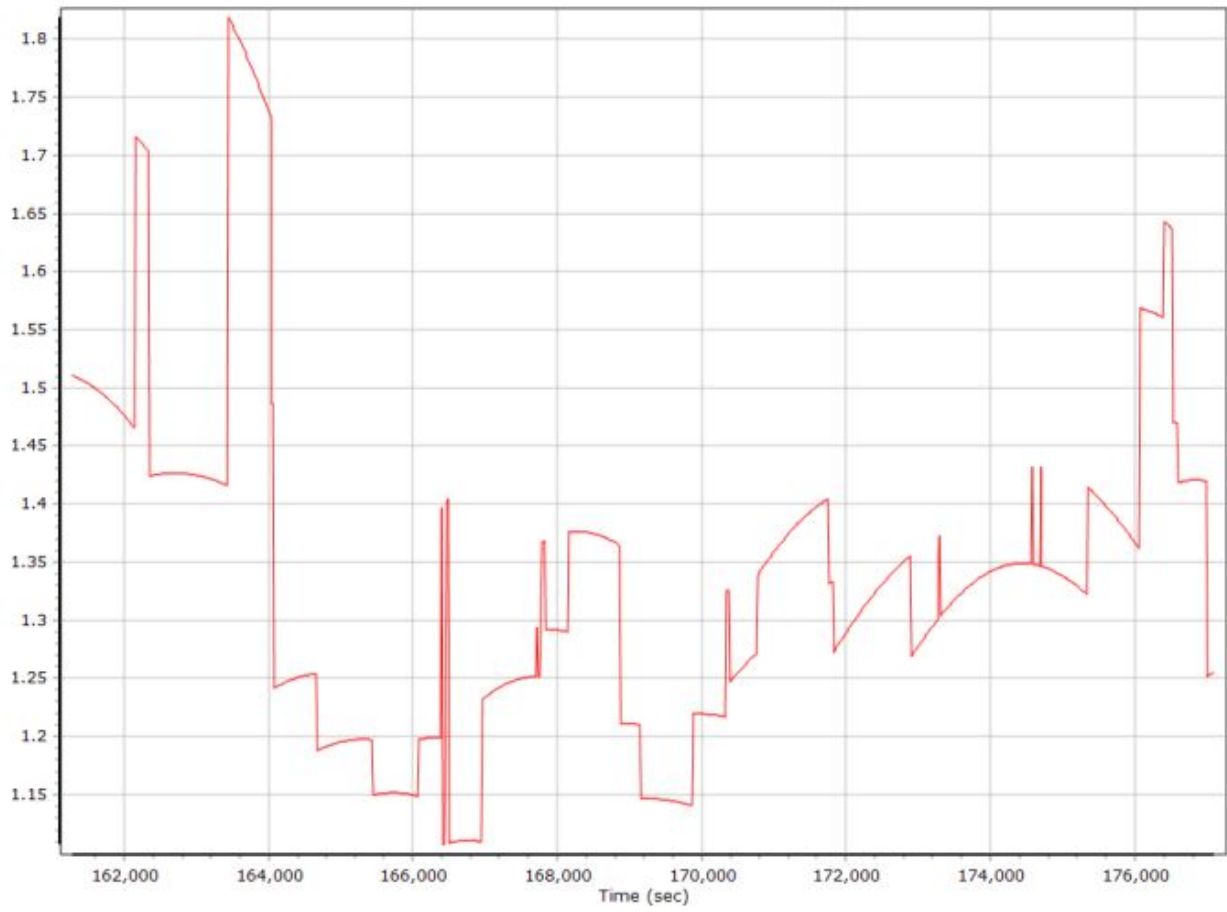
Number of Satellites



Forward/Reverse Separation

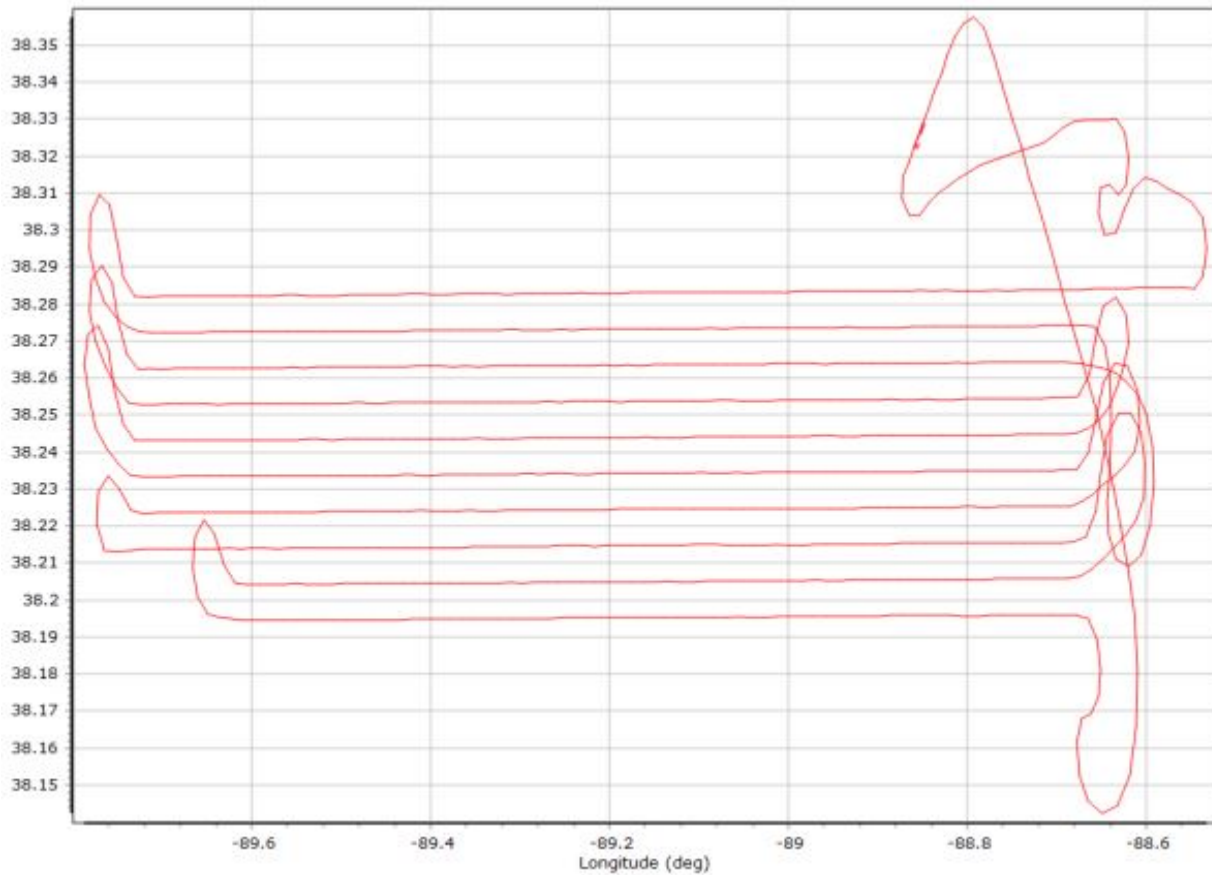


PDOP



210309A.docx QC Report - 6/28/2021 15:22:02
Smoothed Trajectory Information

Top View

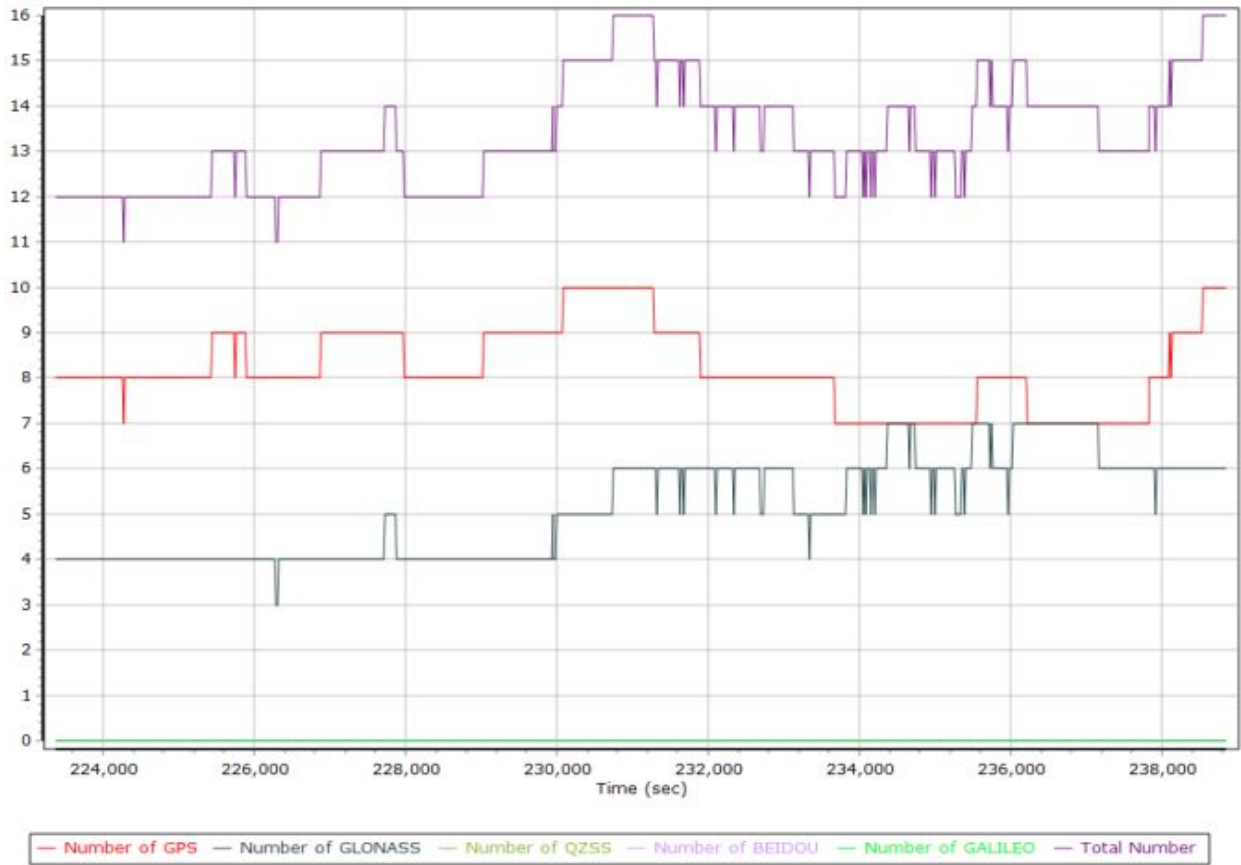


GNSS QC

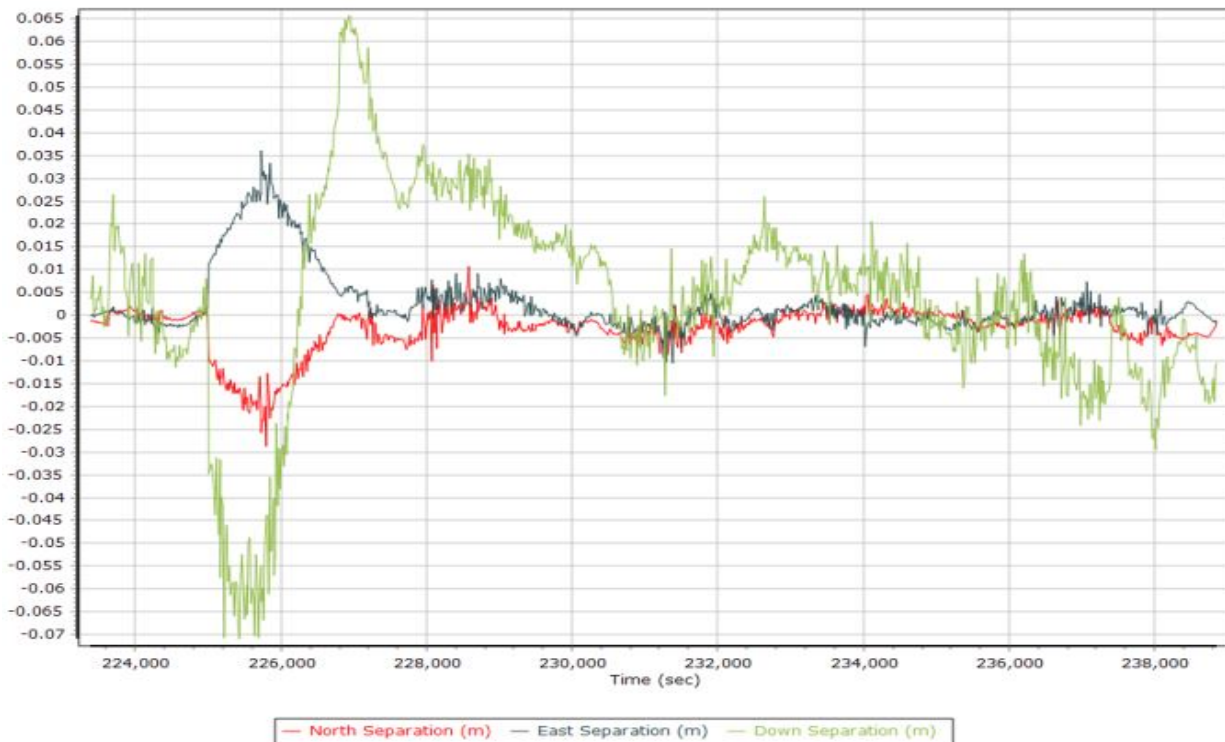
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.05	82.01	
Number of GPS SV	7	10	8
Number of GLONASS SV	0	7	5
PDOP	1.14	2.16	1.50
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15870.00	0.00	1.00
Percentage	99.99	0.00	0.01

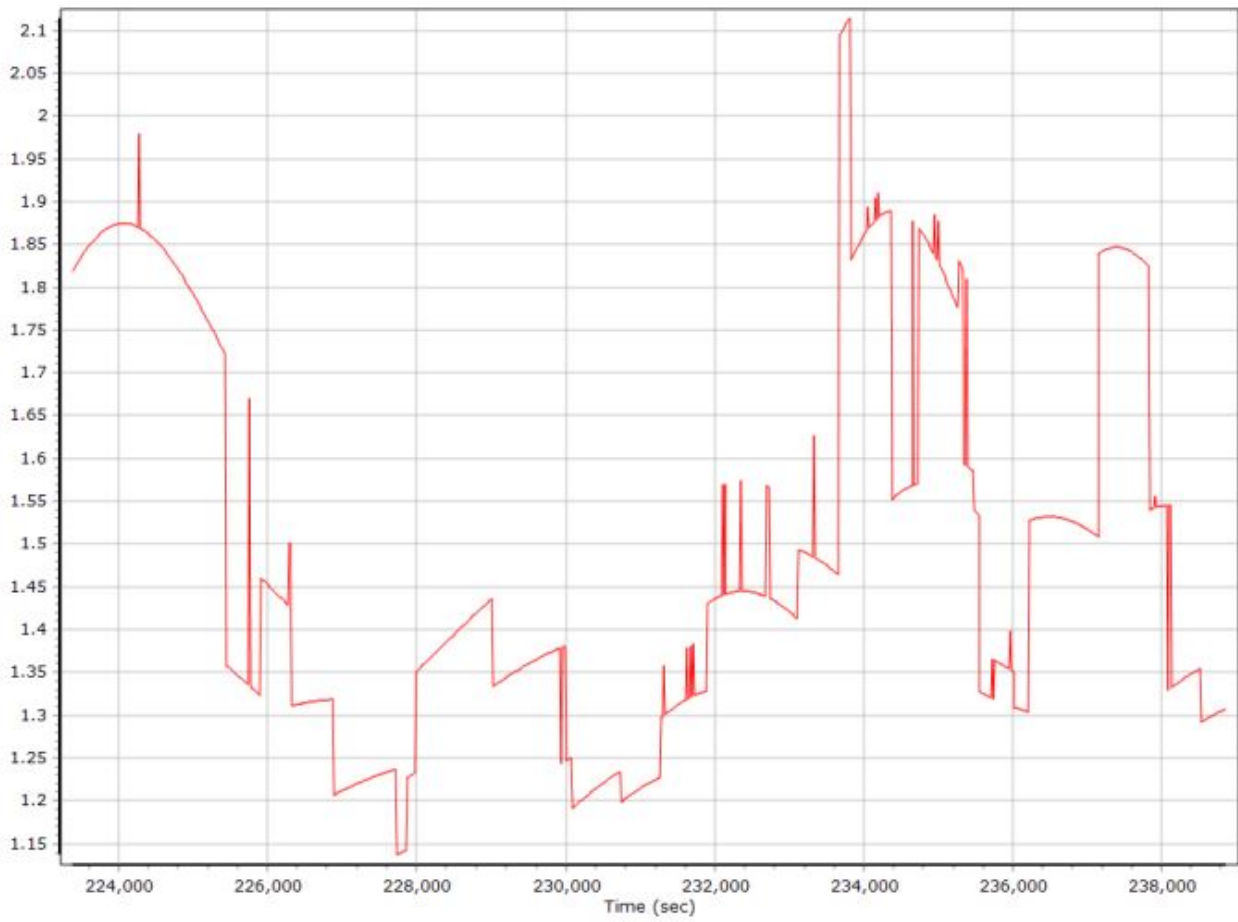
Number of Satellites



Forward/Reverse Separation

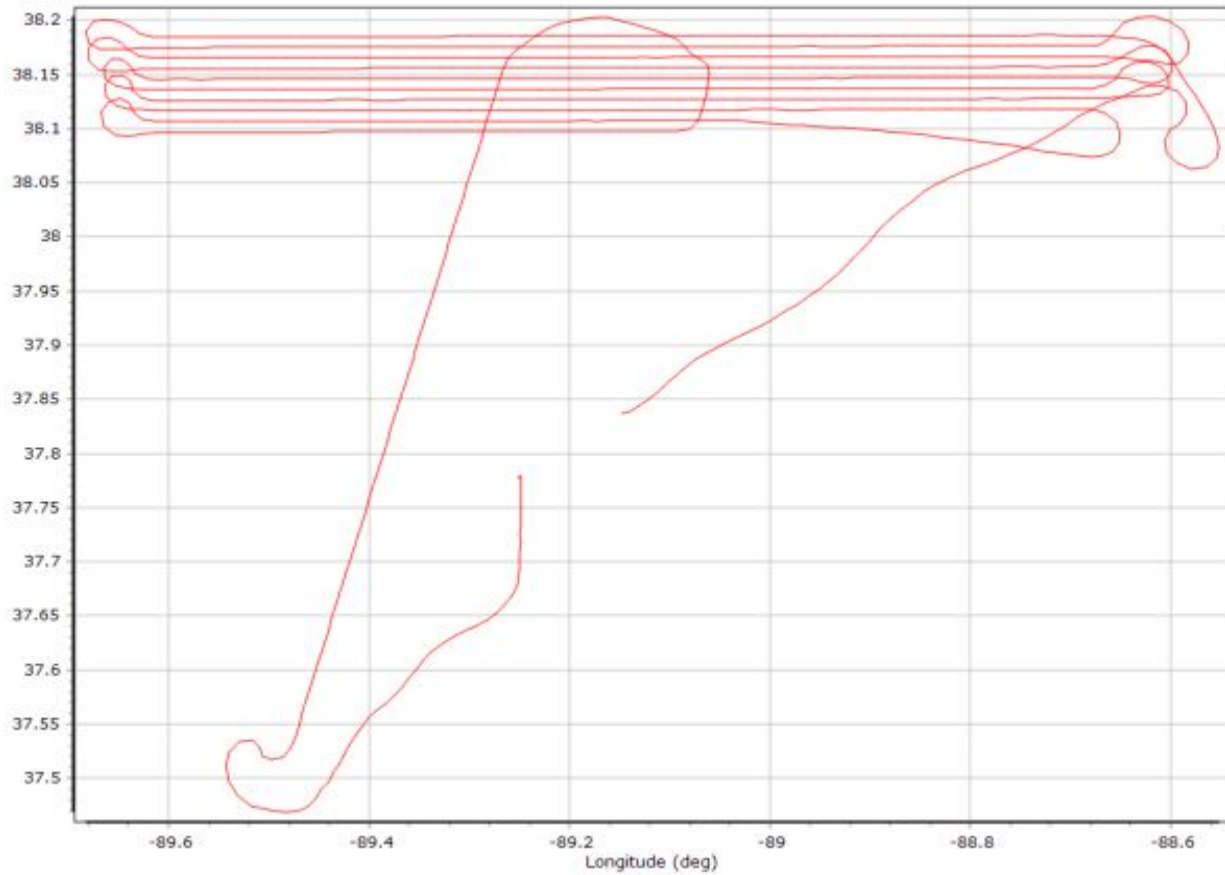


PDOP



210331A.docx QC Report - 6/28/2021 15:33:48
Smoothed Trajectory Information

Top View

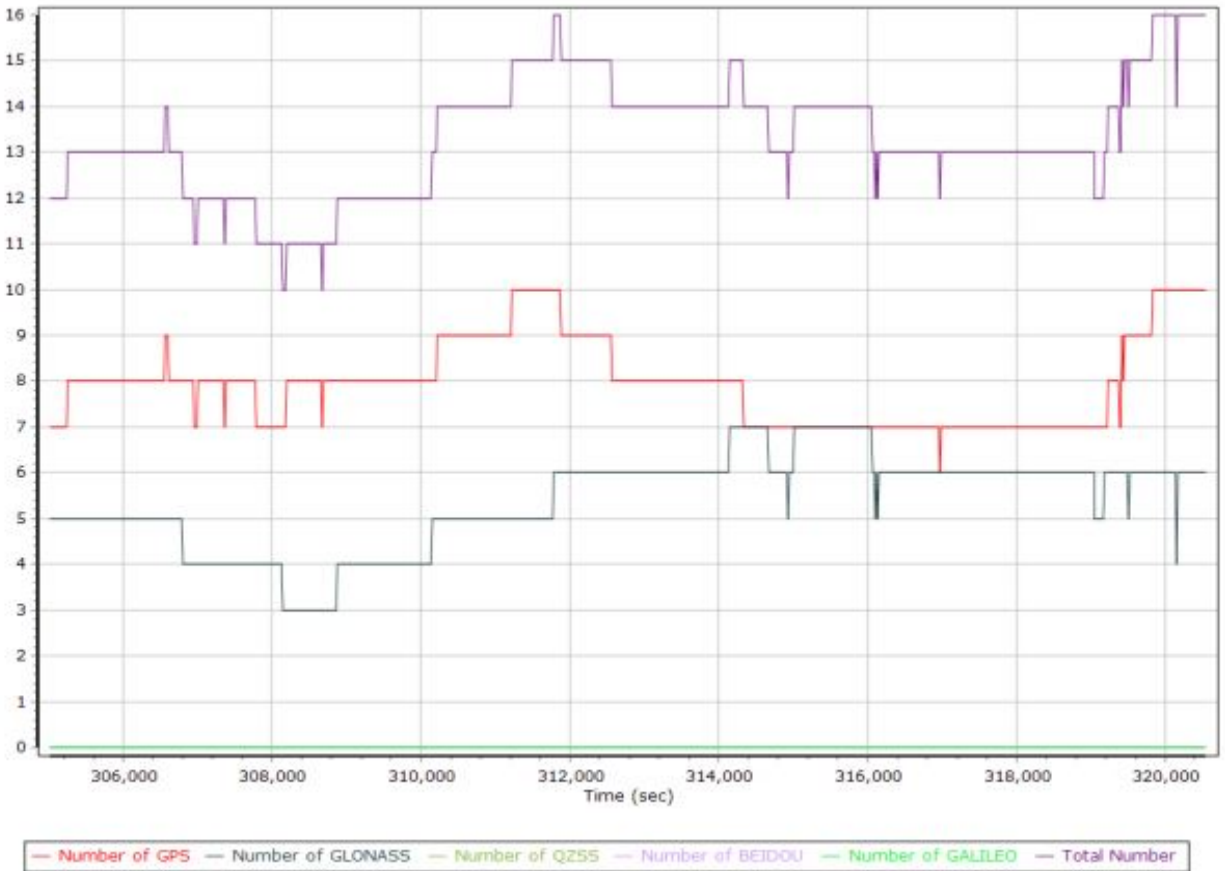


GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.10	74.30	
Number of GPS SV	6	10	8
Number of GLONASS SV	3	7	5
PDOP	1.23	2.86	1.56
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	15586.00	0.00	0.00
Percentage	100.00	0.00	0.00

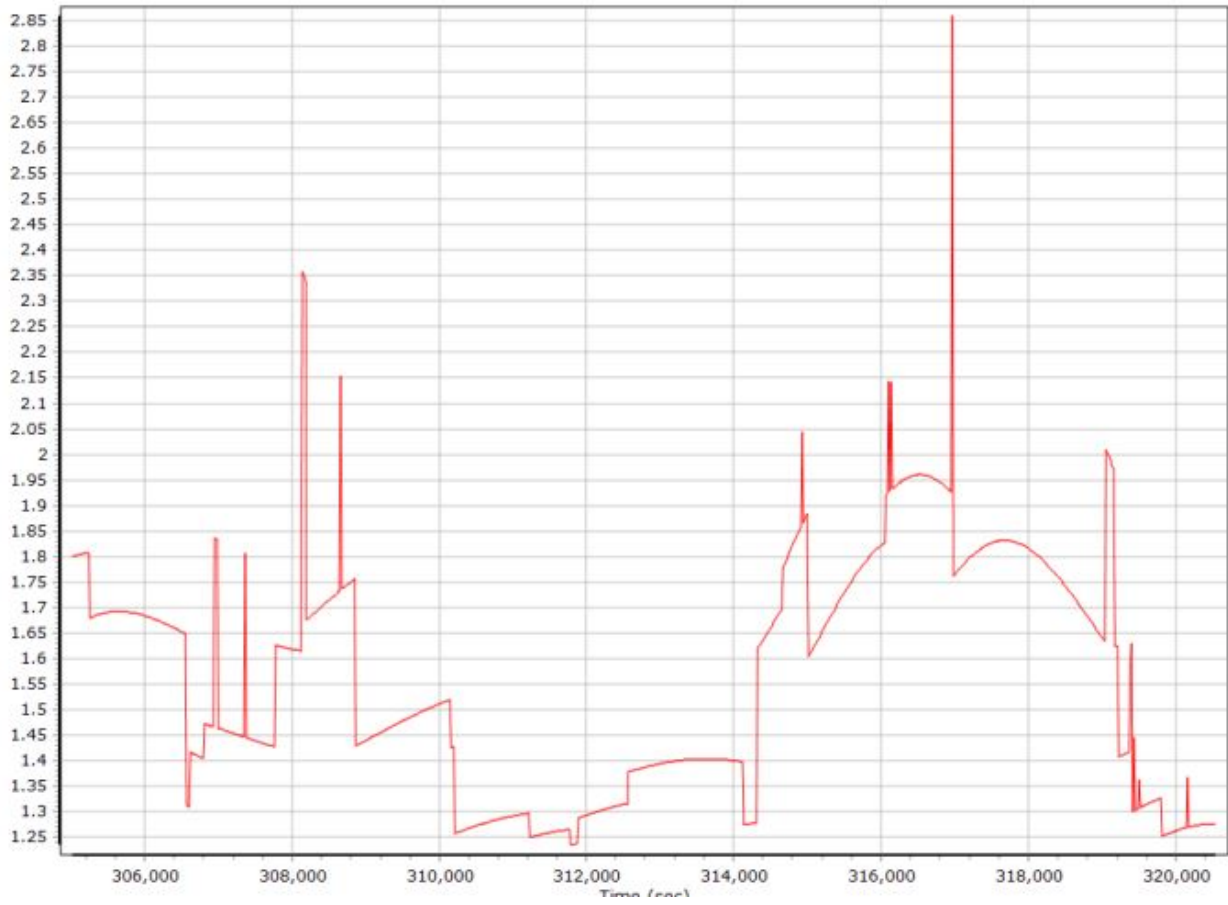
Number of Satellites



Forward/Reverse Separation

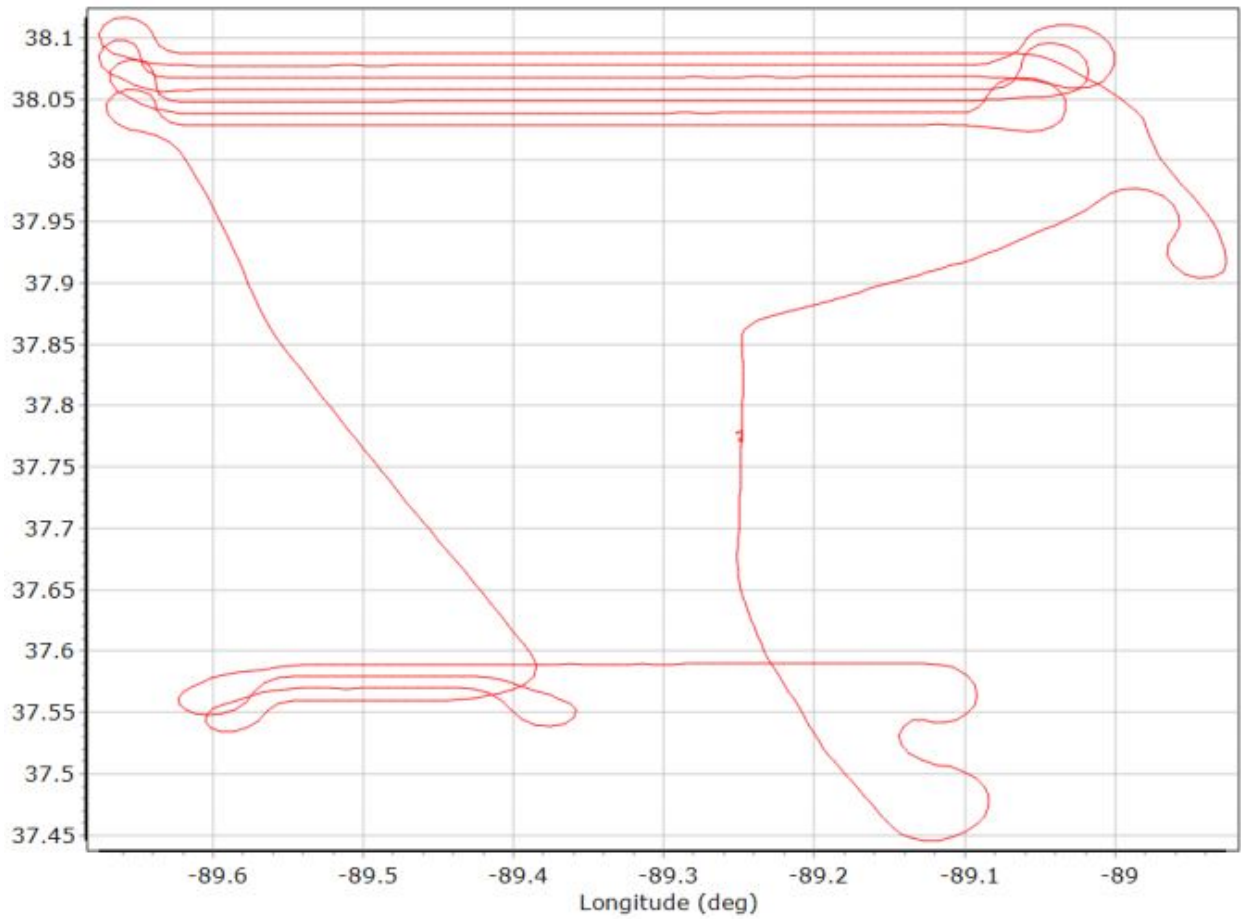


PDOP



210401A.docx QC Report - 6/28/2021 15:33:48
Smoothed Trajectory Information

Top View

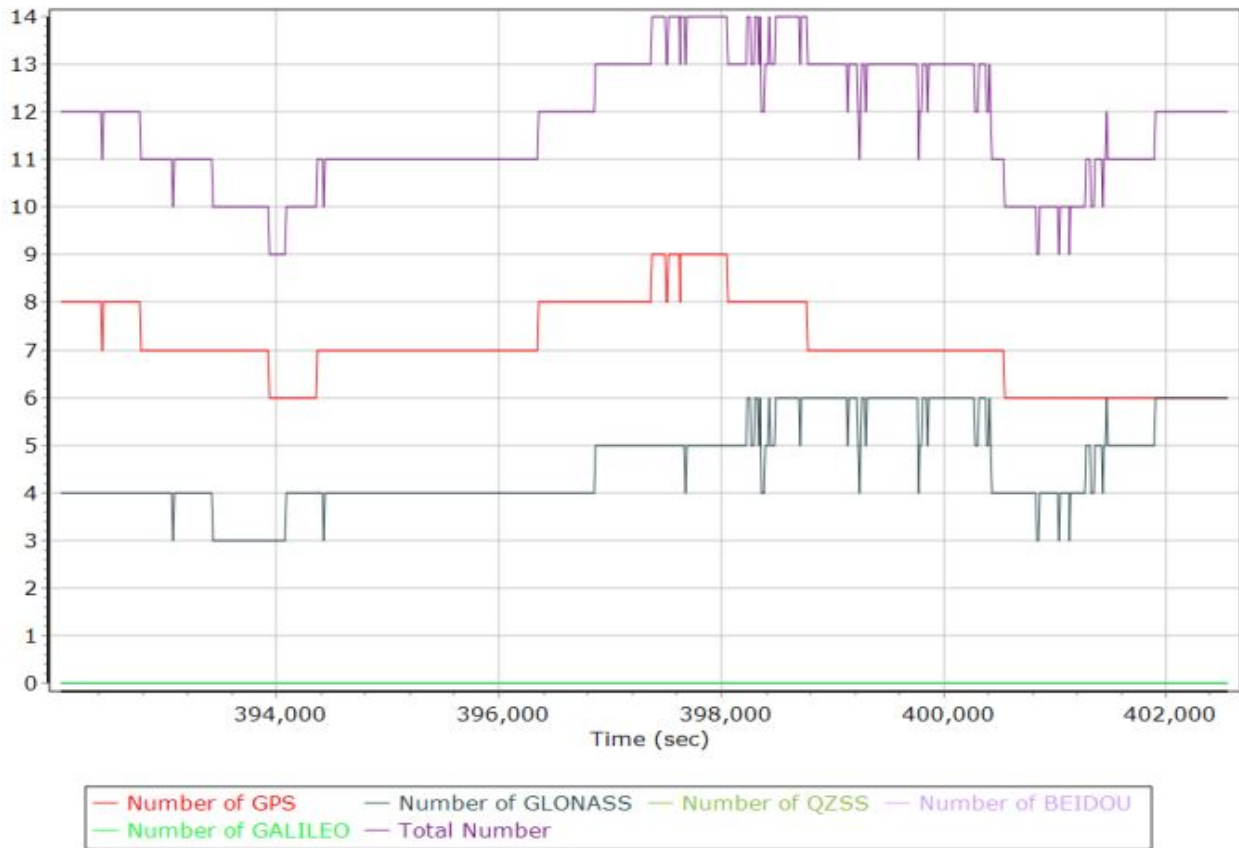


GNSS QC

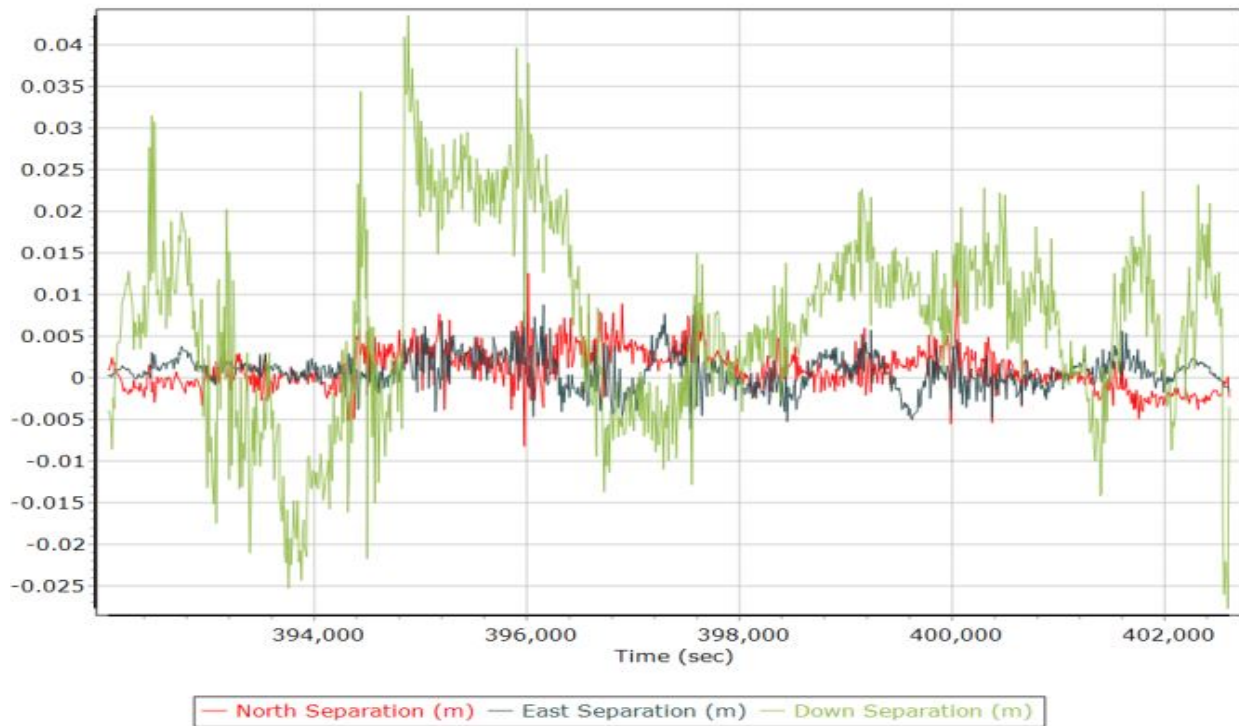
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.08	52.46	
Number of GPS SV	6	9	7
Number of GLONASS SV	0	6	5
PDOP	1.25	3.89	1.70
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	10920.00	0.00	1.00
Percentage	99.99	0.00	0.01

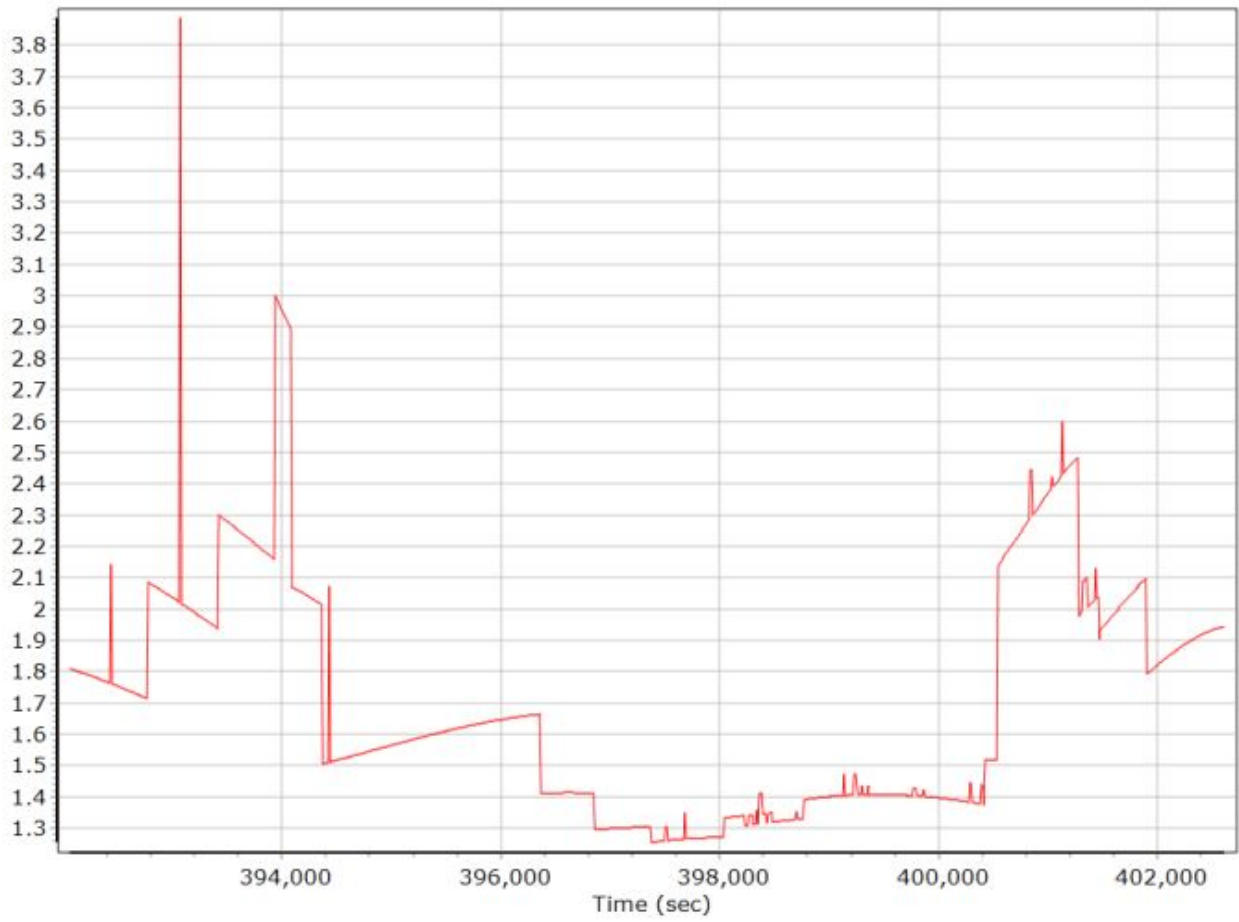
Number of Satellites



Forward/Reverse Separation

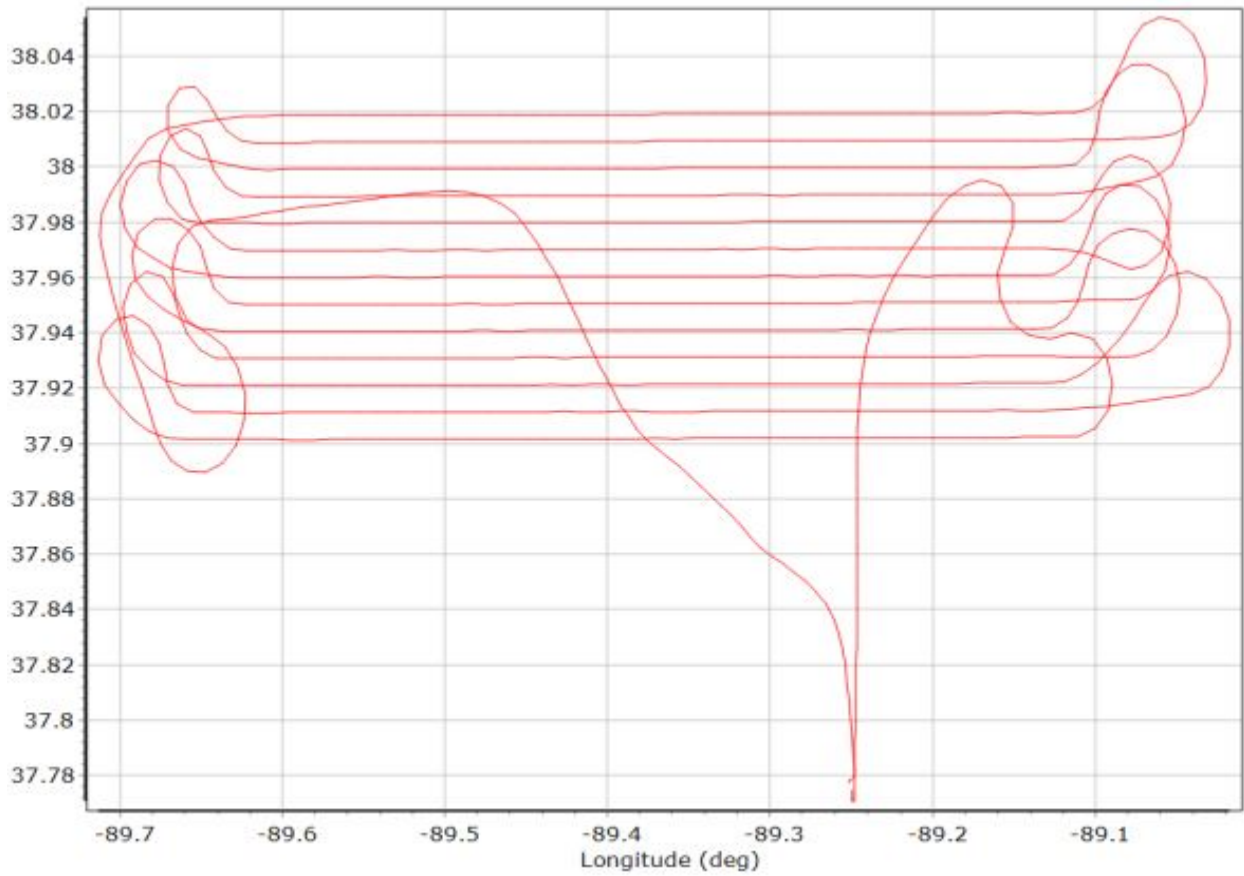


PDOP



210402A.docx QC Report - 6/28/2021 15:41:28
Smoothed Trajectory Information

Top View

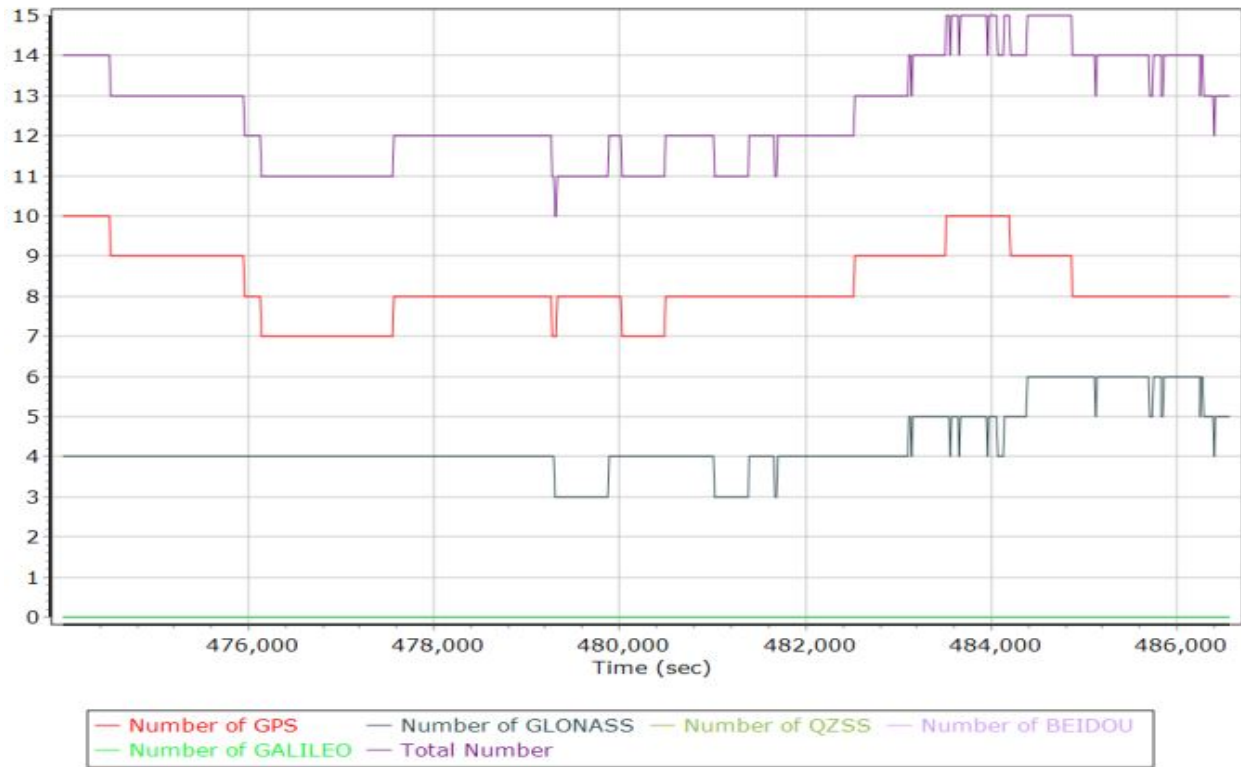


GNSS QC

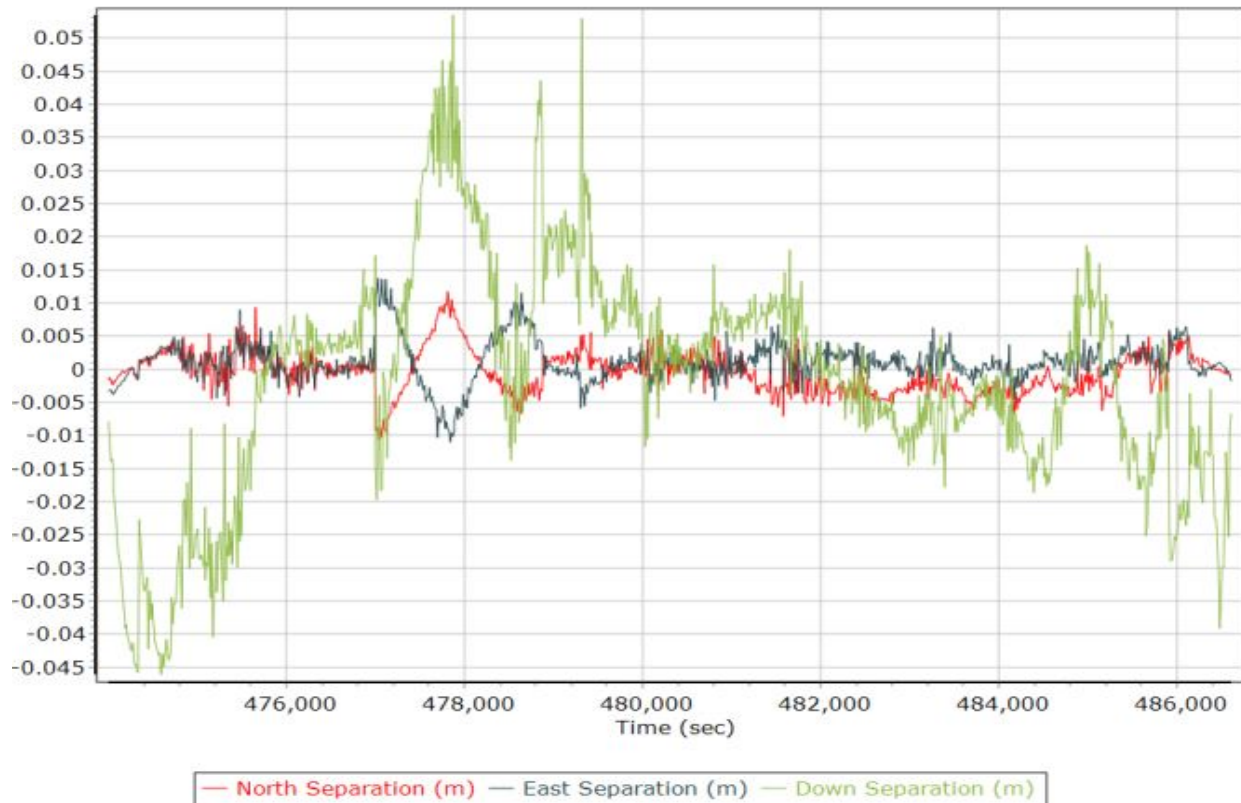
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.07	46.61	
Number of GPS SV	7	10	8
Number of GLONASS SV	0	6	4
PDOP	1.21	2.00	1.53
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	13025.00	0.00	1.00
Percentage	99.99	0.00	0.01

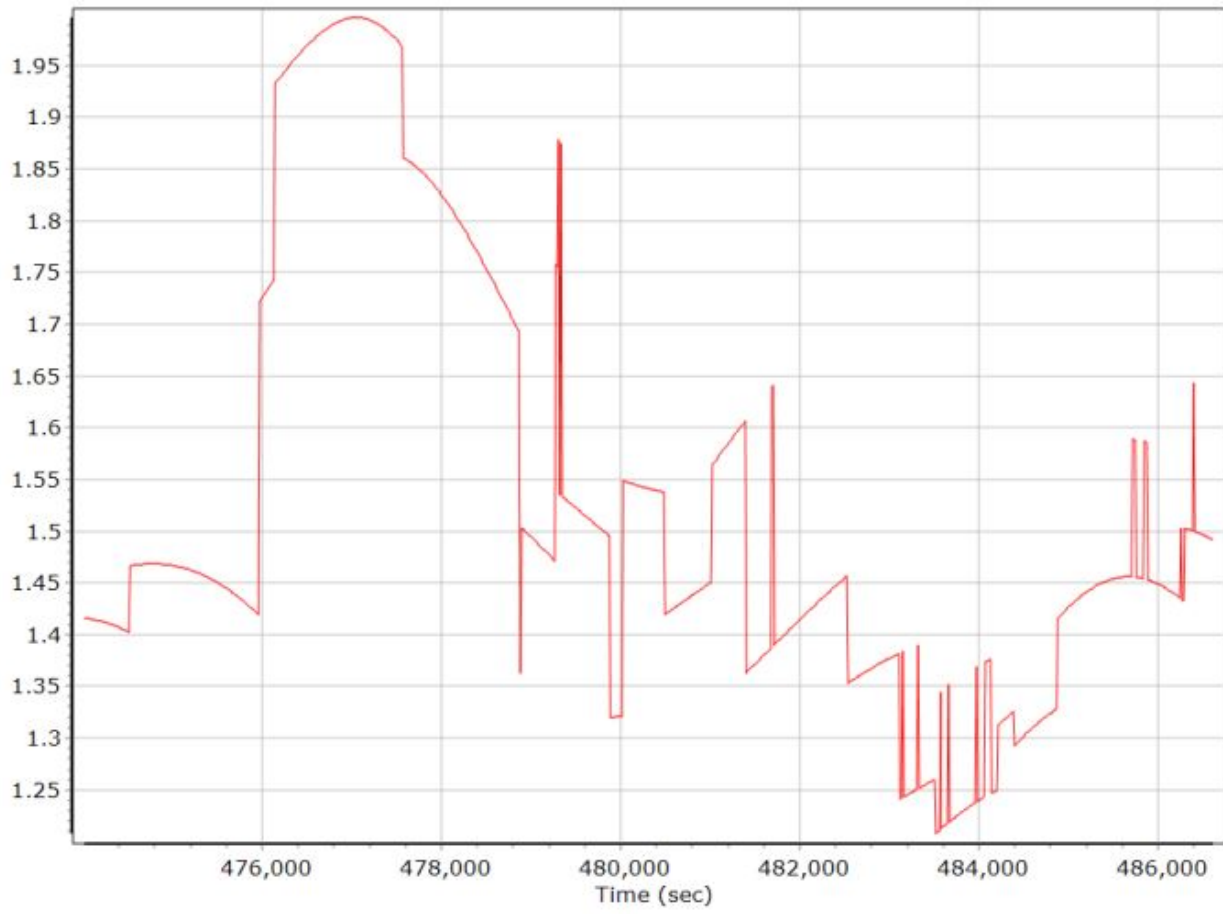
Number of Satellites



Forward/Reverse Separation

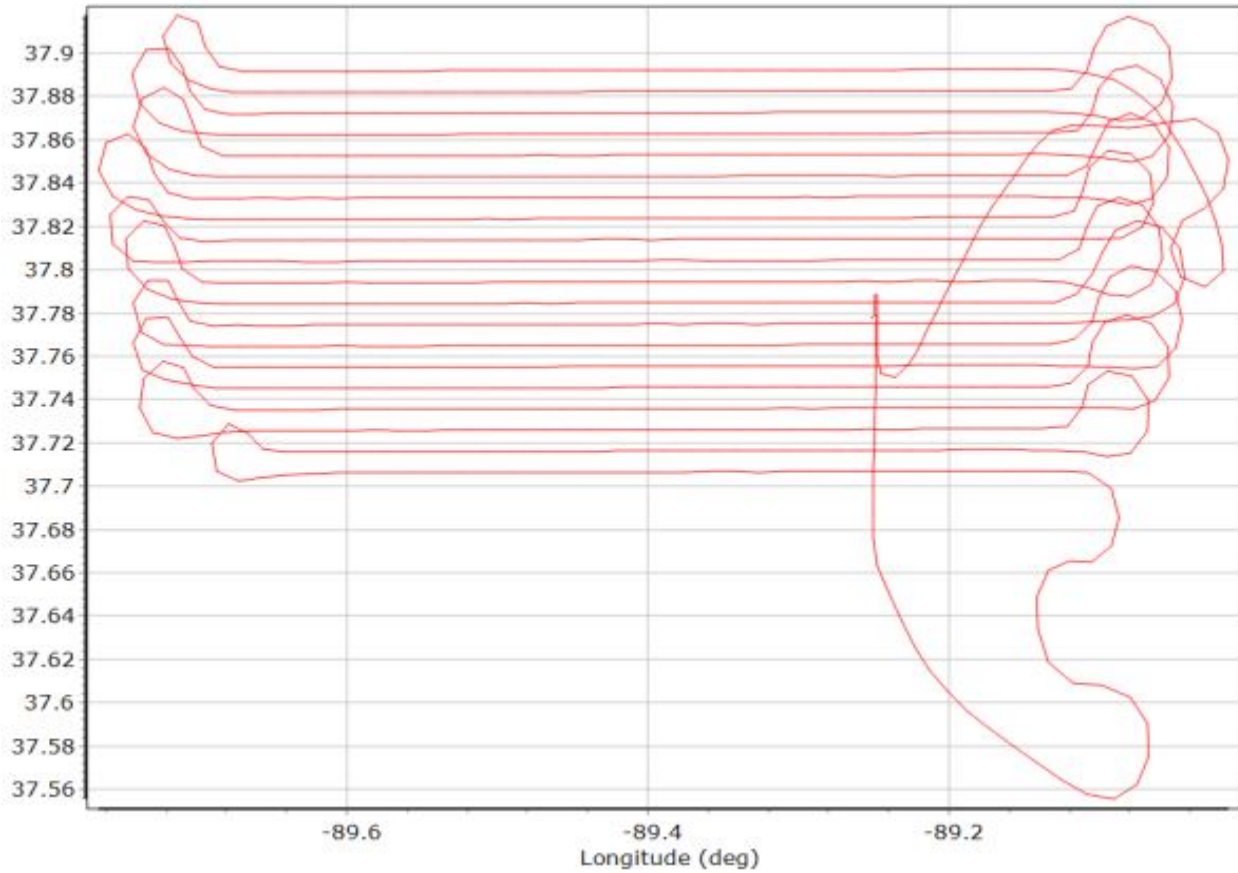


PDOP



210402B.docx QC Report - 6/28/2021 15:47:42
Smoothed Trajectory Information

Top View

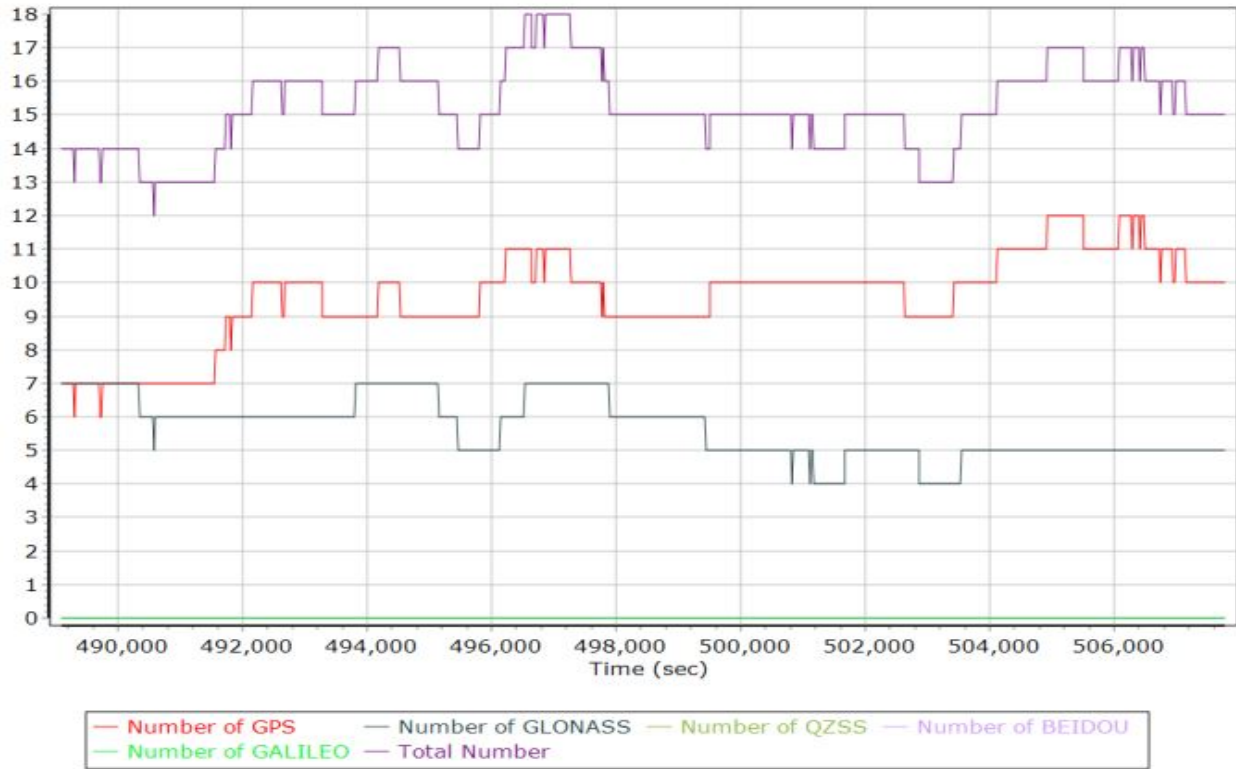


GNSS QC

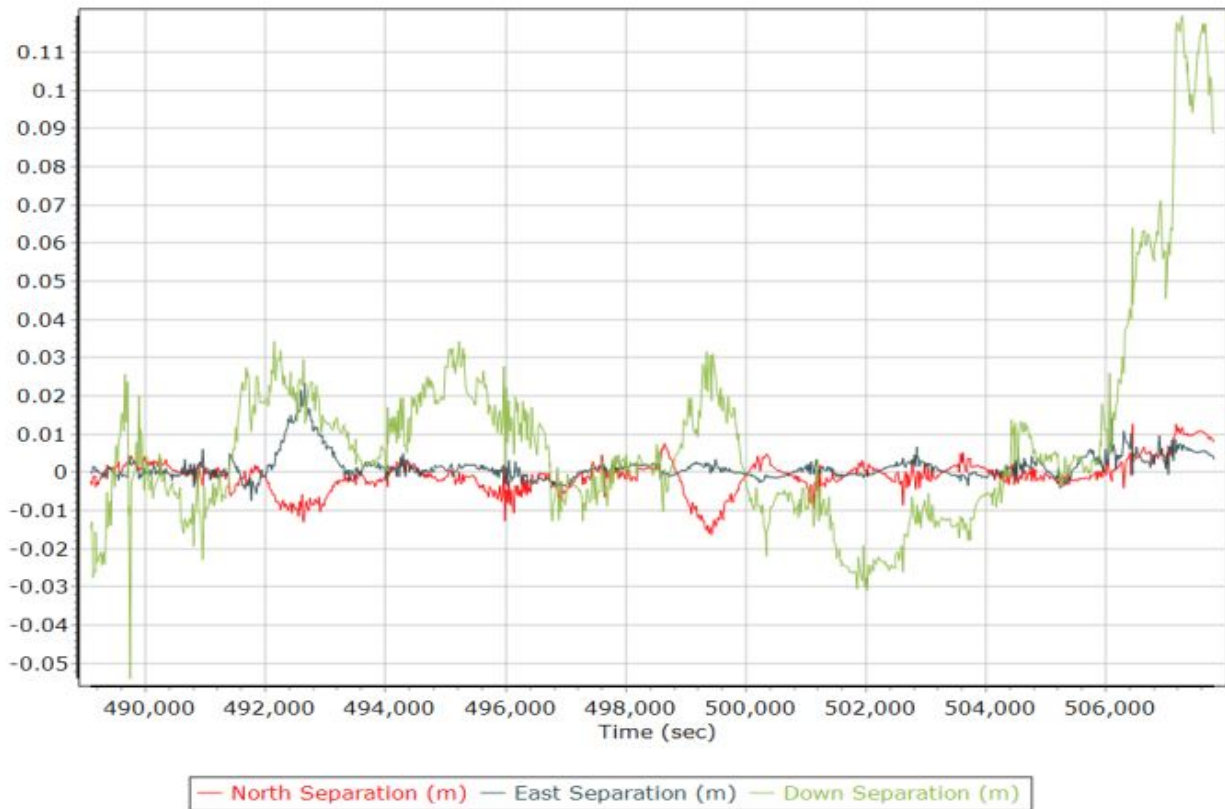
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.09	46.03	
Number of GPS SV	6	12	10
Number of GLONASS SV	0	7	6
PDOP	1.12	2.59	1.42
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	19169.00	0.00	1.00
Percentage	99.99	0.00	0.01

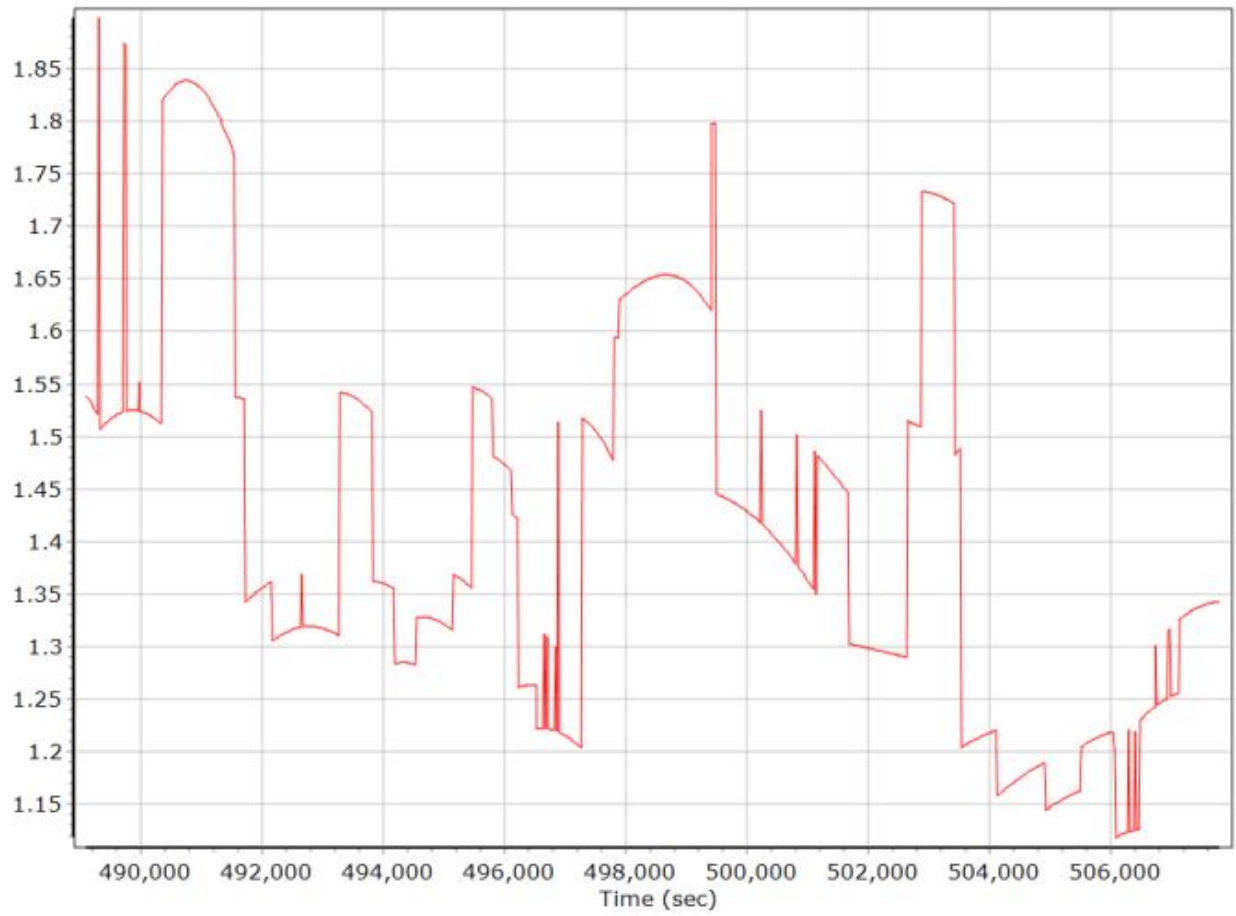
Number of Satellites



Forward/Reverse Separation

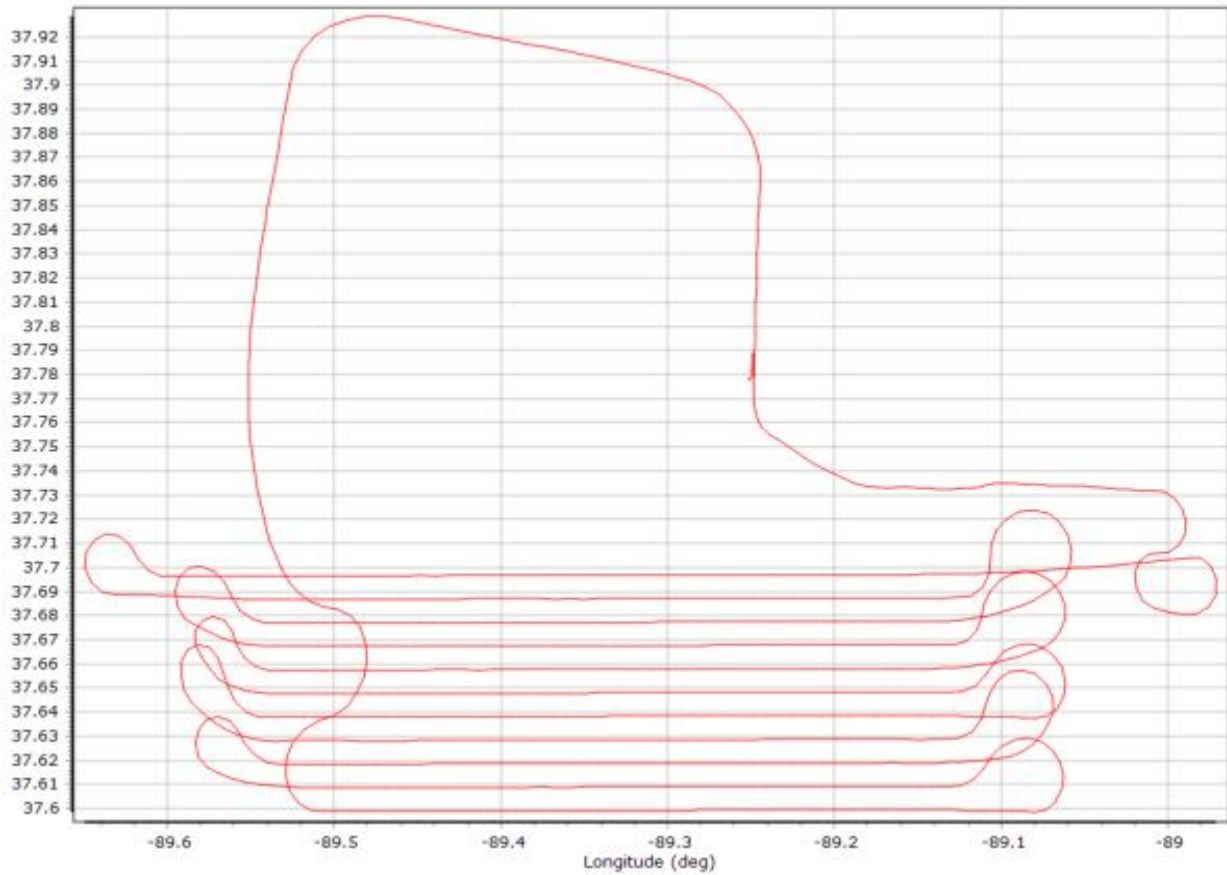


PDOP



210403A.docx QC Report - 6/28/2021 15:55:01
Smoothed Trajectory Information

Top View

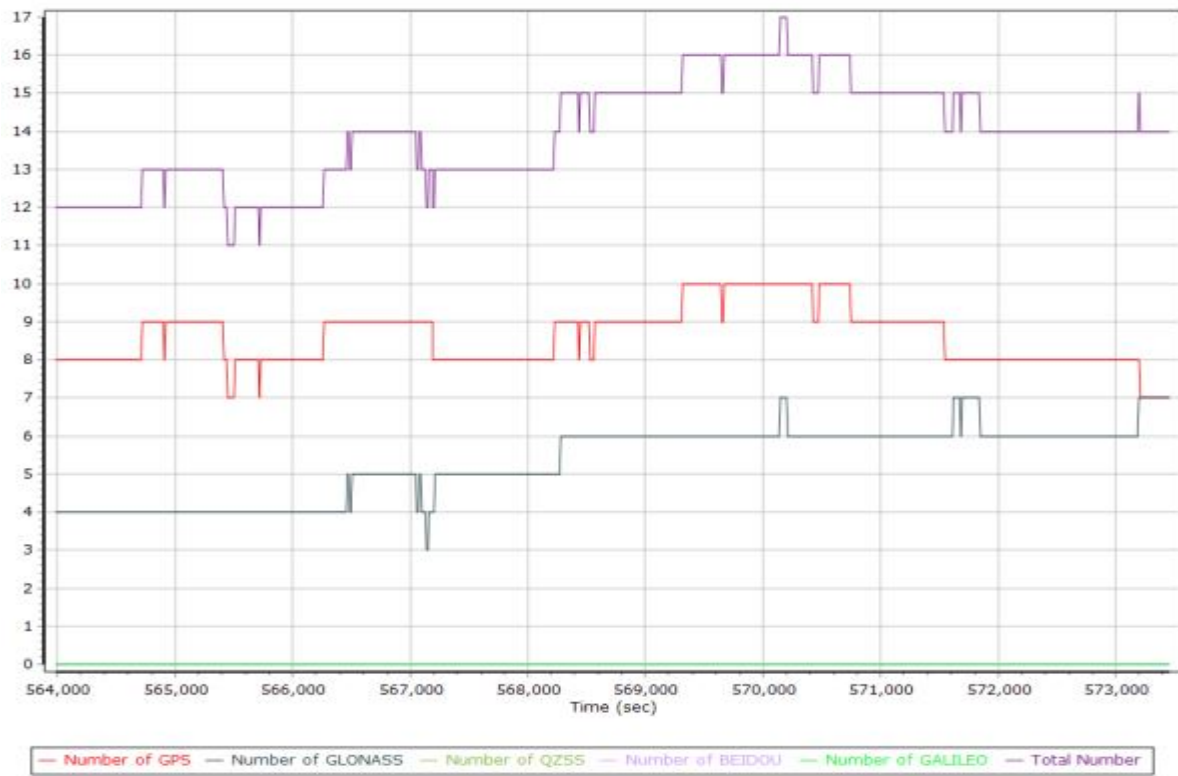


GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.08	36.17	
Number of GPS SV	7	10	9
Number of GLONASS SV	0	7	5
PDOP	1.15	2.15	1.40
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	9839.00	0.00	1.00
Percentage	99.99	0.00	0.01

Number of Satellites



Forward/Reverse Separation



PDOP

