

Block_2_East_IL_HicksDome_Fluo rsparDistrict_Lidar 2019_D19 Final Report

Report Produced for U.S. Geological Survey

TASK ORDER: 140G0219F0337

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SUBMITTED FROM:

Aerial Services, Inc.

6315 Chancellor Dr.

Cedar Falls, IA 50613

319.277.0436

SUBMITTED TO:

U.S. Geological Survey

1400 Independence Road

Rolla, MO 65401

573.308.3810

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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 140G0219F0337 _ Block_2 East_ IL_HicksDome_FloursparDistrict_2019_D19 project Area. Block_2_East_HicksDome_FloursparDistrict area of interest (AOI) covered approximately 2399 square miles in total and includes the counties of Massac, Pope, Edwards, Wabash, White, Gallatin, Hardin, and the eastern 25% of Wayne County. Block_2_East_HicksDome_FloursparDistrict was planned for the acquisition, processing, and derivative products of lidar data to be collected at an aggregate nominal pulses spacing (ANPS) of ≤ 0.5 meters. Adverse ground conditions during the fall 2019 flight season pushed Lidar acquisition to late winter early spring of 2020. Block_2_East_HicksDome_FloursparDistrict is the only portion of the USGS IL_HicksDome_FloursparDistrict_2019 project area that has been acquired at that time.

The LiDAR data for Block_2_East_HicksDome_FloursparDistrict was processed and classified according to project specifications. Detailed breaklines, bare earth Digital Elevation Models (DEMs), and Intensity Images were produced for the Block_2_East_HicksDome_FloursparDistrict project area. Data was formatted into tiles with each tile covering an area of 2000 US survey feet by 2000 US survey feet. A total of 17,201 LAS files, 17,232 DEMs and 17,201 Intensity Images were produced for the project, encompassing the Block_2_East_HicksDome_FloursparDistrict AOI of approximately 2399 square miles and formatted into 17,232 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: 1011_2830, 1021_2870, 1037_3590, 1037_3610, 1041_2910, 1043_2910, 1045_2910, 1063_3110, 8090_2030, 8130_1990, 8150_1990, 8230_1970, 8310_1930, 8410_1870, 8430_1870, 8450_1870, 8470_1830, 8470_1850, 8470_1870, 8490_1830, 8510_1830, 8790_1670, 8790_1690, 8810_1670, 8850_1670, 8910_1630, 8950_1630, 9270_1430, 9530_1590, 9530_1890, 9530_1930, 9550_1850.

PROJECT TEAM

Aerial Services, Inc. (ASI) served as the prime contractor for the project. In addition to project and subcontractor management ASI was responsible for LiDAR acquisition and calibration, LAS classification, LiDAR products, Digital Elevation Model (DEM) production, Intensity Image production, and quality assurance. Subcontractors: SurvTech Solutions and Aerial Surveys International, LLC assisted ASI with LiDAR acquisition and calibration. SurvTech Solutions and GRW assisted ASI with manually edited bare earth surface cleanup, and performed hydro collection. ASI consolidated the hydrologic features and performed hydro flattening for all of project Block_2_East_HicksDome_FloursparDistrict. All follow-on processing was completed by the prime contractor.

Surveying and Mapping, LLC (SAM) completed ground surveying for the project and delivered surveyed checkpoints. SAM was to acquire surveyed checkpoints for the project to be used 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 created for this portion of the project.

SURVEY AREA

The project area addressed by this report falls within the Block_2_East_HicksDome_FluorsparDistrict covering the counties Massac, Pope, Edwards, Wabash, White, Gallatin, Hardin, and the eastern 25% of Wayne county, Illinois.

DATE OF SURVEY

LiDAR acquisition for Block_2_East_HicksDome_FluorsparDistrict was conducted on the dates of on February 29, to March 8, 2020, and again from December 6, to December 11, 2020.

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 East (FIPS 1201) (EPSG 6455).

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

Geoid Model: Geoid 12B

LIDAR VERTICAL ACCURACY

For the Block_2_East_HicksDome_FluorsparDistrict project, the tested RMSEz of the data for checkpoints in non-vegetated terrain equaled 0.048 meters compared with the 10 cm specification: The 95% confidence value of NVA of the classified LiDAR data computed using RMSEz x 1.96 and was found to equal 0.095 meters compared with the 19.6 cm specification.

For the Block_2_East_HicksDome_FluorsparDistrict project, the tested VVA of the classified data computed using the 95th percentile was equal to 0.107 meters, compared with the 29.4 cm specification.

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	53	0.049	0.095	0.016	-0.019	-0.036	0.046	-0.163	0.109	-0.036

Table 1: Non-vegetated Vertical Accuracy (NVA) results.

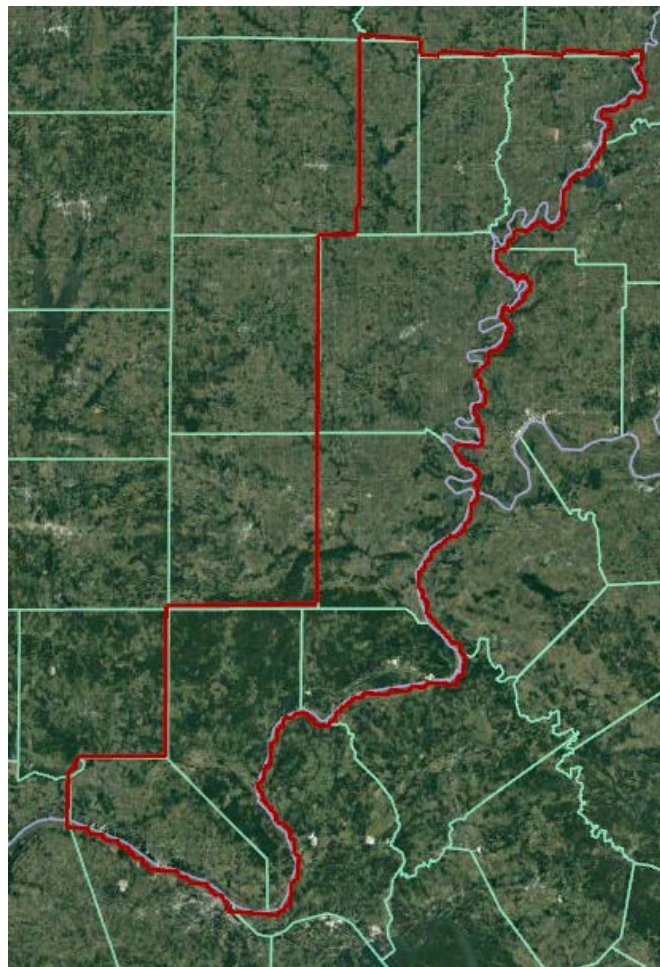
Additional accuracy information and statistics for the classified LiDAR data, raw swath data, and bare earth DEM data can be found in following sections of this report.

PROJECT DELIVERABLES

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

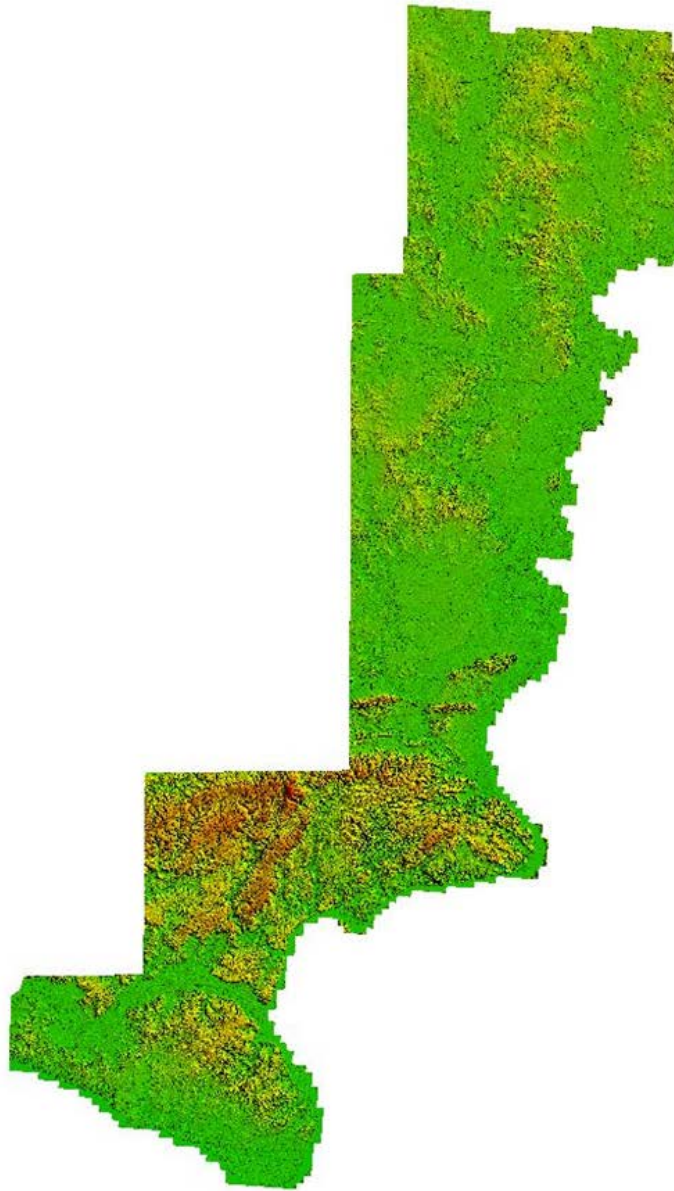
PROJECT TILING FOOTPRINT

17,232 tiles, 17,201 LAS files, 17,232 DEM tiles, and 17,201 Intensity Image tiles were delivered for the project. Each tile's extent is 2000 US Survey feet by 2000 US Survey feet. (See Appendix A for a complete listing of delivered tiles.)



140G0219F0337 _ Block_2 East_IL_HicksDome_FluorsparDistrict_2019_D19 project Area

PROJECT AREA ELEVATION MODEL



140G0219F0337 _ Block_2 East _IL_ HicksDome_ FluorsparDistrict_2019 Project Area Elevation DEM

Lidar Acquisition Details – Aerial Services, Incorporated

Aerial Services, Inc. (ASI) served as prime contractor for the Block 2 East HicksDome Fluorspar District project and performed the LiDAR Acquisition and Calibration.

Aerial Services, Inc. acquired 113 passes for the project area as well as three additional cross flightlines for the purposes of quality control in our own processing which are not included in delivery. 59 of the 113 passes flown by ASI covered the Block 2 East area. The flight plan included zigzag flight line collection as a result of the inherent IMU drift associated with all IMU systems. In order to reduce any margin for error in the flight plan, Aerial Services, Inc. followed FEMA's Appendix A "guidelines" for flight planning and, at a minimum, includes the following criteria:

A digital flight line layout using LEICA MISSION PRO flight design software for direct integration into the aircraft flight navigation system, and planned flight lines; flight line numbers; and coverage area.

Lidar coverage extended by a predetermined margin beyond all project borders to ensure necessary over-edge coverage appropriate for specific task order deliverables.

Local restrictions related to air space and any controlled areas have been investigated so that required permissions can be obtained in a timely manner with respect to schedule. Additionally, Aerial Services, Inc. will file our flight plans as required by local Air Traffic Control (ATC) prior to each mission.

Aerial Services, Inc. monitored weather and atmospheric conditions and conducted lidar missions only when no conditions exist below the sensor that will affect the collection of data. These conditions include leaf-off for hardwoods, no snow, rain, fog, smoke, mist and low clouds. Lidar systems are active sensors, not requiring light, thus missions may be conducted during night hours when weather restrictions do not prevent collection. Aerial Services, Inc. accesses reliable weather sites and indicators (webcams) to establish the highest probability for successful collection in order to position our sensor to maximize successful data acquisition.

Within 72-hours prior to the planned day(s) of acquisition, Aerial Services, Inc. closely monitored the weather, checking all sources for forecasts at least twice daily. As soon as weather conditions were conducive to acquisition, our aircraft mobilized to the project site to begin data collection. Once on site, the acquisition team took responsibility for weather analysis.

Aerial Services, Inc. lidar sensors are calibrated at a designated site located at the Waverly Municipal Airport in Waverly, Iowa and are periodically checked and adjusted to minimize corrections at project sites.

LIDAR SYSTEM PARAMETERS

Aerial Services, Inc. operated a Cessna (Tail # N78AS) outfitted with a LEICA ALS70-HP lidar system during the collection of the study area. Data was acquired between February 29, 2020 and March 8, 2020. The Table below illustrates Aerial Services, Inc. system parameters for lidar acquisition on this project.

Item	Parameter
System	Leica ALS-70 HP
Maximum Number of Returns per Pulse	4
Nominal Pulse Spacing (single swath), (m)	0.5
Nominal Pulse Density (single swath) (ppsm), (m)	4
Aggregate NPS (m) (if ANPS was designed to be met through single coverage, ANPS and NPS will be equal)	0.5
Aggregate NPD (m) (if ANPD was designed to be met through single coverage, ANPD and NPD will be equal)	4
Altitude (AGL meters)	1200
Approx. Flight Speed (knots)	125
Total Sensor Scan Angle (degree)	50
Scan Frequency (hz)	47
Scanner Pulse Rate (kHz)	212
Did the Sensor Operate with Multiple Pulses in The Air? (yes/no)	Yes
Nominal Swath Width on the Ground (m)	1119
Swath Overlap (%)	30
Max. Point Spacing Along Track (m)	1.37
Max. Point Spacing Across Track (m)	0.72

Table 2: Aerial Services, Inc. Lidar System Parameters

Lidar Acquisition Details – SurvTech Solutions

SurvTech Solutions planned 67 passes for the project area as 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 CESSA 401 (Registration N41GD) equipped with an Optech Galaxy T2000 Lidar system during the collection of this task order. Data was acquired between December 9, 2020 and December 11, 2020.

LIDAR SYSTEM PARAMETERS

Item	Parameter
System	Optech Galaxy T2000
Maximum Number of Returns per Pulse	8
Nominal Pulse Spacing (single swath), (m)	0.41
Nominal Pulse Density (single swath) (ppsm), (m)	5.76
Aggregate NPS (m) (if ANPS was designed to be met through single coverage, ANPS and NPS will be equal)	0.41
Aggregate NPD (m) (if ANPD was designed to be met through single coverage, ANPD and NPD will be equal)	5.76
Altitude (AGL meters)	2286
Approx. Flight Speed (knots)	145
Total Sensor Scan Angle (degrees)	45
Scan Rate (hz)	88
Scanner Pulse Rate (kHz)	1000
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)	1894
Swath Overlap (%)	30
Computed Down Track spacing (m) per beam	0.42
Computed Cross Track Spacing (m) per beam	0.41

Table 3: SurvTech Solutions Lidar System Parameters

Lidar Acquisition Details – Aerial Surveys International, LLC

Aerial Surveys International, LLC planned 77 passes for the project area as well as a series of cross flightlines for quality control. In order to reduce any margin for error in the flight plan, Aerial Surveys International, LLC followed FEMA’s Appendix A guidelines for flight planning and, at a minimum, includes the following criteria:

- 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.

Aerial Surveys International, LLC operated a Cessna 310 (Registration N7516Q) equipped with an Optech T2000 Lidar system during the collection of this task order. Data was acquired between December 6, 2020 and December 9, 2020.

LIDAR SYSTEM PARAMETERS

Item	Parameter
System	Optech T2000
Maximum Number of Returns per Pulse	8
Nominal Pulse Spacing (single swath), (m)	0.43
Nominal Pulse Density (single swath) (ppsm), (m)	5.28
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)	5.28
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	0.45
Computed Cross Track Spacing (m) per beam	0.42

Table 4: Aerial Surveys International, LLC Lidar System Parameters

ACQUISITION STATUS REPORT AND FLIGHTLINES

Upon notification to proceed, the flight crew loaded the flight plans and validated the flight parameters. The Acquisition Manager contacted air traffic control and coordinated flight pattern requirements. Lidar acquisition began immediately upon notification that control base stations were in place. During flight operations, the flight crew monitored weather and atmospheric conditions. Lidar missions were flown only when no condition existed below the sensor that would affect the collection of data. The pilot constantly monitored the aircraft course, position, pitch, roll, and yaw of the aircraft. The sensor operator monitored the sensor, the status of PDOPs, and performed the first Q/C review during acquisition. The flight crew constantly reviewed weather and cloud locations. Any flight lines impacted by unfavorable conditions were marked as invalid and re-flown immediately or at an optimal time. A listing of Flightlines and corresponding, Lift_ID that contains the date of mission, Point Source ID, Scanner, and adjusted GPS times are available in Table below.

The Figure below shows the combined trajectories of ASI and subcontractor flight lines by mission.

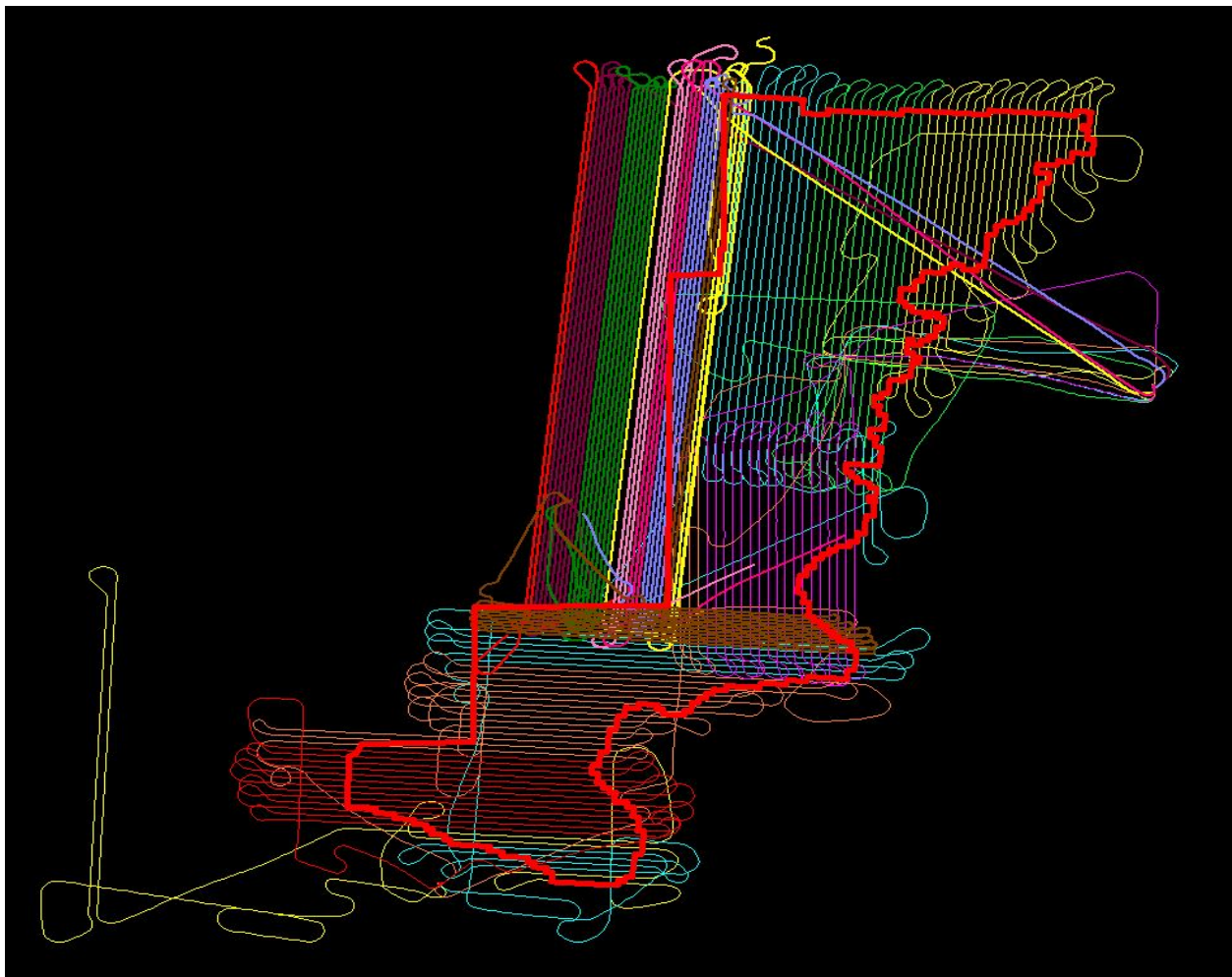


Figure 1: 140G0219F0337_Block_2 East_IL_HicksDome_FluorsparDistrict_2019_D19 trajectories by mission as flown by Aerial Services, Inc , SurvTech and Aerial Surveys International.

Name	Lift_ID	PT Source ID	Scanner	Start Time	End Time
20201210_150748	20201210_A	5036	Optech	291648067.85	291649140.14
20201210_154841	20201210_A	5038	Optech	291650520.86	291651594.02
20201210_144727	20201210_A	5035	Optech	291646846.78	291647957.48
20201209_223213	20201209_B	5028	Optech	291588333.29	291589433.83
20201210_152808	20201210_A	5037	Optech	291649288.38	291650404.80
20201210_160903	20201210_A	5039	Optech	291651743.07	291652851.93
20201210_162913	20201210_A	5040	Optech	291652953.32	291654053.54
20201210_164923	20201210_A	5041	Optech	291654162.66	291655273.48
20201210_170925	20201210_A	5042	Optech	291655364.72	291656466.37
20201208_212222	20201208_448_C	2029	Optech	291497742.93	291498431.10
200229_211247	20200229_ALS	7	ALS_70	267045957.10	267048193.00
20201209_143920	20201209_A	5001	Optech	291559959.52	291560221.24
200307_110735	20200307_ALS	92	ALS_70	267614443.10	267616261.00
200307_145839	20200307_ALS	98	ALS_70	267628308.10	267630085.00
200307_032455	20200306_ALS	83	ALS_70	267586682.10	267588387.50
20201210_180946	20201210_A	5045	Optech	291658985.59	291659286.49
200307_075935	20200307_ALS	86	ALS_70	267603164.10	267604963.00
200307_043554	20200306_ALS	85	ALS_70	267590942.10	267592636.00
200308_014742	20200308_ALS	109	ALS_70	267667251.10	267669196.90
200307_152835	20200307_ALS	99	ALS_70	267630103.10	267631916.00
200307_125225	20200307_ALS	94	ALS_70	267620733.10	267622556.00
200307_135428	20200307_ALS	96	ALS_70	267624456.10	267626247.00
200307_090334	20200307_ALS	88	ALS_70	267607002.10	267608802.00
200307_100608	20200307_ALS	90	ALS_70	267610756.10	267612542.00
200306_224627	20200306_ALS	77	ALS_70	267569976.10	267571854.00
200307_103628	20200307_ALS	91	ALS_70	267612577.10	267614381.00
200307_160100	20200307_ALS	100	ALS_70	267632048.10	267633852.00

200308_011608	20200308_ALS	108	ALS_70	267665358.10	267667024.90
200307_132341	20200307_ALS	95	ALS_70	267622608.10	267624408.00
200307_122049	20200307_ALS	93	ALS_70	267618837.10	267620660.00
200307_024755	20200306_ALS	82	ALS_70	267584463.10	267586428.00
200307_142505	20200307_ALS	97	ALS_70	267626292.10	267628106.00
200307_191711	20200307_ALS	101	ALS_70	267643820.10	267645615.00
200307_083110	20200307_ALS	87	ALS_70	267605058.10	267606932.00
200307_040022	20200306_ALS	84	ALS_70	267588810.10	267590775.00
200307_231203	20200307_ALS	106	ALS_70	267657912.10	267659822.00
20201206_170521	20201206_448_B	2019	Optech	291309522.41	291309728.76
200307_093423	20200307_ALS	89	ALS_70	267608851.10	267610688.00
200308_004110	20200308_ALS	107	ALS_70	267663259.10	267665173.90
200229_163827	20200229_ALS	1	ALS_70	267029496.10	267031475.00
200306_232439	20200306_ALS	78	ALS_70	267572268.10	267574205.00
200308_035155	20200308_ALS	110	ALS_70	267674703.10	267676649.90
200308_115302	20200308_ALS	121	ALS_70	267703571.10	267704002.90
200308_114526	20200308_ALS	120	ALS_70	267703115.10	267703528.90
20201206_171146	20201206_448_B	2020	Optech	291309906.20	291310145.56
20201208_203724	20201208_448_C	2023	Optech	291495044.29	291495293.35
20201209_144506	20201209_A	5002	Optech	291560306.26	291560556.58
20201209_174916	20201209_448_D	2060	Optech	291571356.67	291571507.20
20201210_181611	20201210_A	5046	Optech	291659370.79	291659689.75
20201209_174214	20201209_448_D	2059	Optech	291570934.57	291571133.61
200308_042726	20200308_ALS	111	ALS_70	267676835.10	267678588.90
20201208_204616	20201208_448_C	2024	Optech	291495575.92	291495882.49
200229_194947	20200229_ALS	6	ALS_70	267040976.10	267043313.00
20201209_145013	20201209_A	5003	Optech	291560612.58	291560922.74
20201208_205446	20201208_448_C	2026	Optech	291496086.04	291496466.63
20201209_145726	20201209_A	5004	Optech	291561046.42	291561338.33

20201210_182340	20201210_A	5047	Optech	291659820.28	291660165.58
20201209_150443	20201209_A	5005	Optech	291561482.89	291561858.16
200308_120302	20200308_ALS	122	ALS_70	267704171.10	267704717.90
20201209_180402	20201209_448_D	2063	Optech	291572240.88	291572935.65
20201209_175547	20201209_448_D	2061	Optech	291571747.76	291572094.25
20201209_173144	20201209_448_D	2057	Optech	291570304.91	291570650.70
20201209_172224	20201209_448_D	2056	Optech	291569744.68	291570089.06
20201208_210456	20201208_448_C	2027	Optech	291496696.19	291497132.79
20201209_171245	20201209_448_D	2054	Optech	291569166.14	291569515.22
200308_050035	20200308_ALS	112	ALS_70	267678823.10	267680824.90
20201209_151230	20201209_A	5006	Optech	291561949.66	291562339.85
20201209_170109	20201209_448_D	2053	Optech	291568469.47	291568943.69
20201209_181735	20201209_448_D	2065	Optech	291573055.08	291573720.24
20201209_164919	20201209_448_D	2051	Optech	291567759.80	291568233.92
20201211_161501	20201211_A	5069	Optech	291738501.11	291738822.96
20201210_201647	20201210_B	5048	Optech	291666606.89	291667260.04
200229_191109	20200229_ALS	5	ALS_70	267038658.10	267040935.00
20201206_171840	20201206_448_B	2021	Optech	291310320.60	291310814.72
20201206_164055	20201206_448_B	2017	Optech	291308056.07	291308532.18
20201209_152131	20201209_A	5007	Optech	291562490.79	291562922.09
20201209_163649	20201209_448_D	2050	Optech	291567009.12	291567512.04
200308_071131	20200308_ALS	113	ALS_70	267686680.10	267688575.90
20201209_234137	20201209_448_E	2089	Optech	291592497.68	291593230.16
200229_183211	20200229_ALS	4	ALS_70	267036320.10	267038634.00
200229_171257	20200229_ALS	2	ALS_70	267031566.10	267033857.00
20201209_162354	20201209_448_D	2048	Optech	291566234.44	291566753.06
20201209_232639	20201209_448_E	2087	Optech	291591599.37	291592358.95
200229_175144	20200229_ALS	3	ALS_70	267033893.10	267036248.00
20201210_203000	20201210_B	5049	Optech	291667400.10	291668052.24

20201209_183107	20201209_448_D	2066	Optech	291573867.27	291574550.44
20201209_203846	20201209_448_E	2068	Optech	291581526.84	291582190.50
20201209_153018	20201209_A	5008	Optech	291563018.31	291563438.15
20201209_161028	20201209_448_D	2046	Optech	291565429.24	291565982.37
20201209_231203	20201209_448_E	2085	Optech	291590723.56	291591454.23
20201209_210718	20201209_448_E	2070	Optech	291583238.26	291583918.42
200308_121259	20200308_ALS	123	ALS_70	267704768.10	267705520.90
200308_074554	20200308_ALS	114	ALS_70	267688743.10	267690556.90
20201209_212141	20201209_448_E	2073	Optech	291584101.37	291584807.14
20201209_213658	20201209_448_E	2074	Optech	291585018.19	291585717.66
20201209_205315	20201209_448_E	2069	Optech	291582395.55	291583092.72
20201209_155417	20201209_448_D	2044	Optech	291564456.71	291565174.18
20201209_215203	20201209_448_E	2076	Optech	291585924.41	291586661.58
20201209_220815	20201209_448_E	2078	Optech	291586895.64	291587613.81
20201209_153932	20201209_A	5009	Optech	291563572.01	291564032.04
20201209_225606	20201209_448_E	2083	Optech	291589766.33	291590517.51
20201210_204211	20201210_B	5050	Optech	291668131.50	291668792.04
20201209_154849	20201209_A	5010	Optech	291564129.03	291564580.23
20201209_224014	20201209_448_E	2082	Optech	291588814.60	291589552.28
20201209_222421	20201209_448_E	2080	Optech	291587861.87	291588612.85
20201209_153930	20201209_448_D	2042	Optech	291563570.50	291564268.46
200307_214157	20200307_ALS	105	ALS_70	267652505.10	267653181.00
200307_212656	20200307_ALS	104	ALS_70	267651605.10	267652303.00
20201209_155915	20201209_A	5011	Optech	291564755.40	291565334.90
20201210_205607	20201210_B	5051	Optech	291668966.88	291669614.32
200308_081705	20200308_ALS	115	ALS_70	267690614.10	267692509.90
20201209_161013	20201209_A	5012	Optech	291565412.87	291565970.70
20201209_152208	20201209_448_D	2041	Optech	291562528.05	291563365.25
20201208_230118	20201208_448_C	2038	Optech	291503678.34	291504459.53

200308_130023	20200308_ALS	126	ALS_70	267707612.10	267708497.90
200308_142119	20200308_ALS	131	ALS_70	267712467.10	267713422.90
20201210_210811	20201210_B	5052	Optech	291669691.42	291670352.59
200308_133245	20200308_ALS	128	ALS_70	267709553.10	267710480.90
20201208_213754	20201208_448_C	2031	Optech	291498674.66	291499438.34
200308_140523	20200308_ALS	130	ALS_70	267711511.10	267712443.90
200308_122839	20200308_ALS	124	ALS_70	267705708.10	267706556.90
200308_131618	20200308_ALS	127	ALS_70	267708566.10	267709516.90
20201208_215544	20201208_448_C	2033	Optech	291499744.41	291500520.19
200308_124427	20200308_ALS	125	ALS_70	267706656.10	267707573.90
20201208_222841	20201208_448_C	2036	Optech	291501721.38	291502503.06
20201208_224449	20201208_448_C	2037	Optech	291502689.61	291503481.30
200308_085022	20200308_ALS	116	ALS_70	267692611.10	267694442.90
200308_134900	20200308_ALS	129	ALS_70	267710529.10	267711483.90
20201209_163359	20201209_A	5014	Optech	291566838.59	291567439.96
20201209_164714	20201209_A	5015	Optech	291567634.14	291568355.87
20201208_221204	20201208_448_C	2035	Optech	291500724.64	291501509.83
20201210_212235	20201210_B	5053	Optech	291670555.46	291671188.25
20201209_162148	20201209_A	5013	Optech	291566108.08	291566730.81
20201209_170029	20201209_A	5016	Optech	291568428.95	291569123.03
20201211_160151	20201211_A	5068	Optech	291737711.48	291738327.86
20201209_171523	20201209_A	5017	Optech	291569323.09	291570178.85
20201210_213524	20201210_B	5054	Optech	291671323.98	291671975.11
200308_092223	20200308_ALS	117	ALS_70	267694532.10	267696418.90
20201209_173120	20201209_A	5018	Optech	291570280.05	291571113.18
20201210_214924	20201210_B	5055	Optech	291672163.92	291672805.77
20201210_173541	20201210_A	5043	Optech	291656940.79	291657605.51
20201210_233231	20201210_B	5063	Optech	291678351.47	291678967.26
20201210_221514	20201210_B	5057	Optech	291673713.67	291674353.23

20201210_224050	20201210_B	5059	Optech	291675250.09	291675884.62
20201211_155114	20201211_A	5067	Optech	291737074.15	291737644.08
20201210_230622	20201210_B	5061	Optech	291676782.02	291677412.37
20201210_220120	20201210_B	5056	Optech	291672880.15	291673535.86
20201210_235747	20201210_B	5065	Optech	291679867.26	291680443.14
20201210_222704	20201210_B	5058	Optech	291674423.74	291675078.65
20201210_225252	20201210_B	5060	Optech	291675971.81	291676628.36
20201210_234353	20201210_B	5064	Optech	291679032.80	291679690.77
20201209_174840	20201209_A	5019	Optech	291571320.10	291572175.00
20201210_231819	20201210_B	5062	Optech	291677498.75	291678156.07
20201211_153824	20201211_A	5066	Optech	291736304.17	291736915.12
200308_104106	20200308_ALS	118	ALS_70	267699256.10	267701050.90
20201209_180401	20201209_A	5020	Optech	291572240.54	291573079.79
20201209_203140	20201209_B	5022	Optech	291581099.78	291582216.73
200308_111217	20200308_ALS	119	ALS_70	267701125.10	267703039.90
200307_195234	20200307_ALS	102	ALS_70	267645943.10	267647674.00
20201209_205210	20201209_B	5023	Optech	291582329.83	291583409.31
20201209_233134	20201209_B	5031	Optech	291591894.39	291592926.62
200307_202418	20200307_ALS	103	ALS_70	267647846.10	267649655.00
20201210_142737	20201210_A	5034	Optech	291645656.86	291646719.83
20201209_225154	20201209_B	5029	Optech	291589514.38	291590568.28
20201209_211224	20201209_B	5024	Optech	291583544.10	291584647.48
20201209_221229	20201209_B	5027	Optech	291587148.98	291588220.08
20201209_231146	20201209_B	5030	Optech	291590706.49	291591783.95
20201209_213215	20201209_B	5025	Optech	291584735.00	291585833.92
20201209_235046	20201209_B	5032	Optech	291593045.68	291594129.59
20201210_000957	20201209_B	5033	Optech	291594197.24	291595267.81
20201209_215254	20201209_B	5026	Optech	291585974.04	291587080.02

Table 5: Block_2_East_HicksDome_FluorsparDistrict, Illinois Project flightline by Mission

ACQUISITION CONTROL

Aerial Services, Inc. conducted the survey which provided the established base stations used to control the lidar acquisition for the Block_2_East_HicksDome_FluorsparDistrict project area. The coordinates of the base stations are provided in the table below.

Name	NAD83(2011) Decimal Degrees		Ellipsoid Ht (WGS84, m)
	Easting X	Northing Y	
MOCH	36.91805	-89.31888	70.084
MOJK	37.41222	-89.65	115.82
MOSG	37.9375	-90.13555	167.739
INES	38.12944	-87.55055	111.475
INDA	38.195	-86.97388	126.116
INVI	38.6275	-87.53055	101
VINU	38.68916	-87.52305	105.509
KYTB	37.35333	-87.49666	133.959

Table 6: Base station used to control lidar acquisition for the Project.

SurvTech Solutions, utilized location listed in the Table below to control the lidar acquisition for their collection area.

Name	NAD83(2011) Decimal Degrees		Ellipsoid Ht (WGS84, m)
	Easting X	Northing Y	
KEVV-Rebar	-87.537483	38.037538	84.139

Table 7: Base station used to control lidar acquisition for the Project.

Aerial Surveys International, LLC, utilized POSPac PP-RTX to control the lidar acquisition for the Hicks Dome 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 Waypoint's Inertial Explorer version 8.80.2503 software suite. All flights were flown with PDOP less than or equal to 3.0 and with at least 6 satellites in common view of both a stationary reference receiver and the airborne GPS.

For all flights, the GPS data can be classified as excellent, with GPS residuals no larger than 10 cm being recorded.

GPS processing reports for each mission are included in Appendix B.

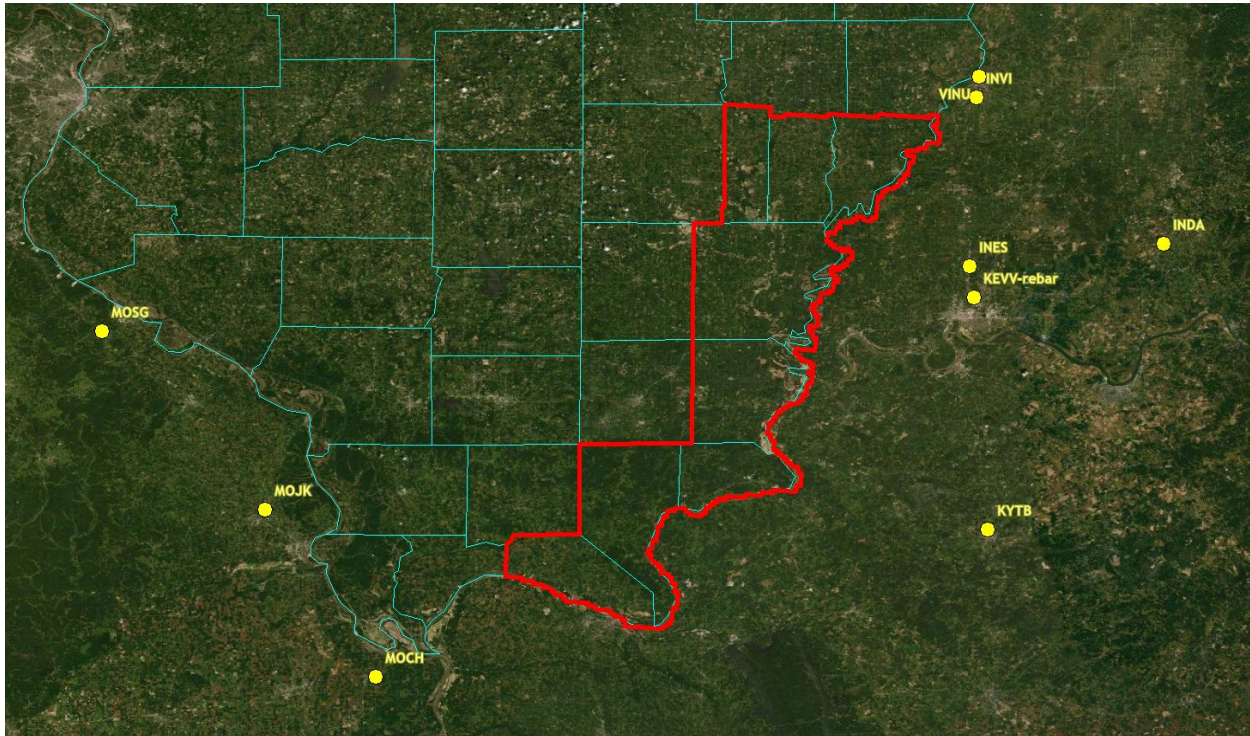


Figure 2: 140G0219F0337_Block_2_IL_HicksDome_FluorsparDistrict_2019_D19 Base station location

SurvTech Solutions 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 within the Block 2 East area are included in Appendix B.

Aerial Surveys International, LLC's Airborne GPS data was processed using POSPAC MMS 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 within the Block 2 East are included in Appendix B.

GENERATION AND CALIBRATION OF LASER POINTS (RAW DATA)

After **Aerial Services Incorporation**, processes the GNSS/GPS and IMU data in Inertial Explorer, the data is then exported to raw LAS files using Leica's CloudPro software. CloudPro combines the raw data collected with the ALS 70 HP sensor, combines it with the airborne trajectory data, applies the sensor's calculated boresight correction angles, and then outputs the point cloud to the specified coordinate reference system and file format.

The initial step of calibration is to verify the complete coverage of the AOI with no internal voids present, as well as ensuring that minimum point density of 4.0 ppsm has been achieved.

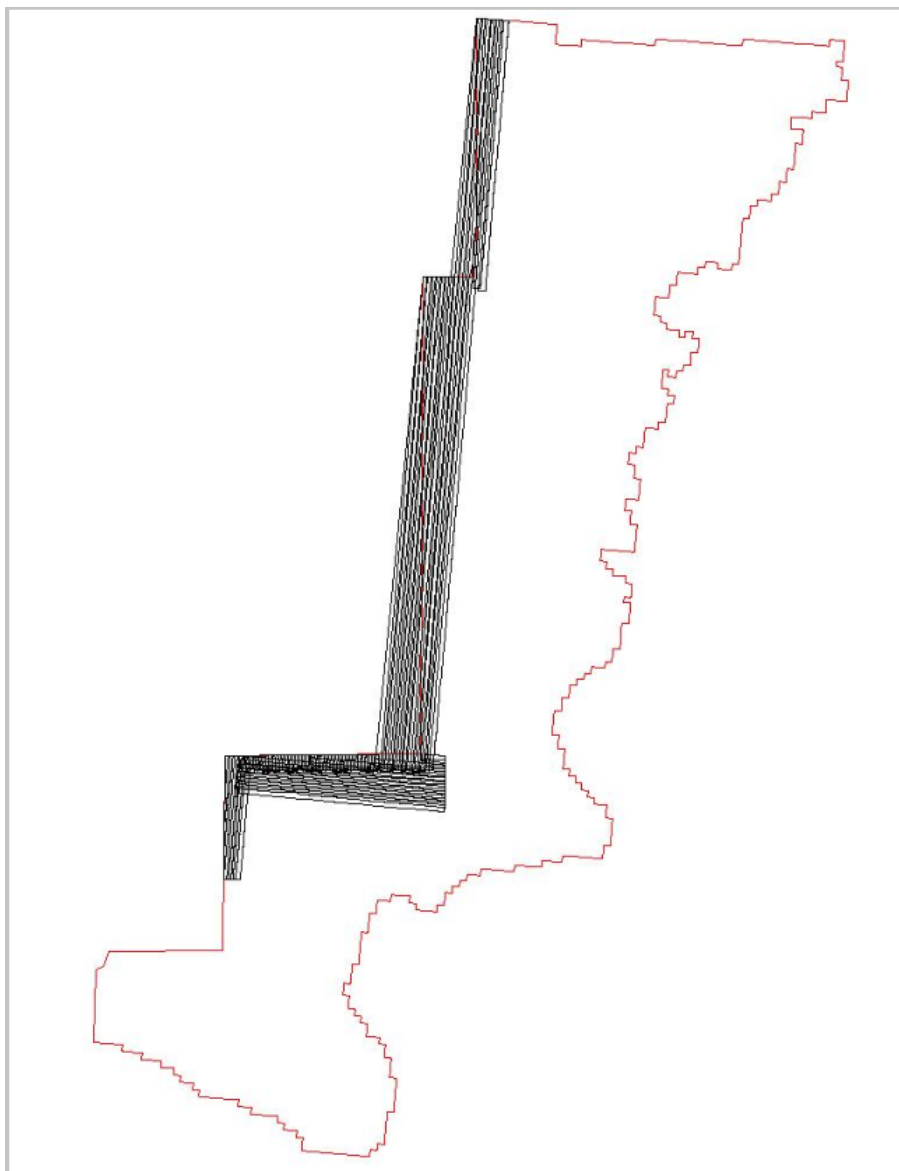


Figure 3: ASI Lidar swath coverage over AOI.

SurvTech Solutions initial calibration step 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.

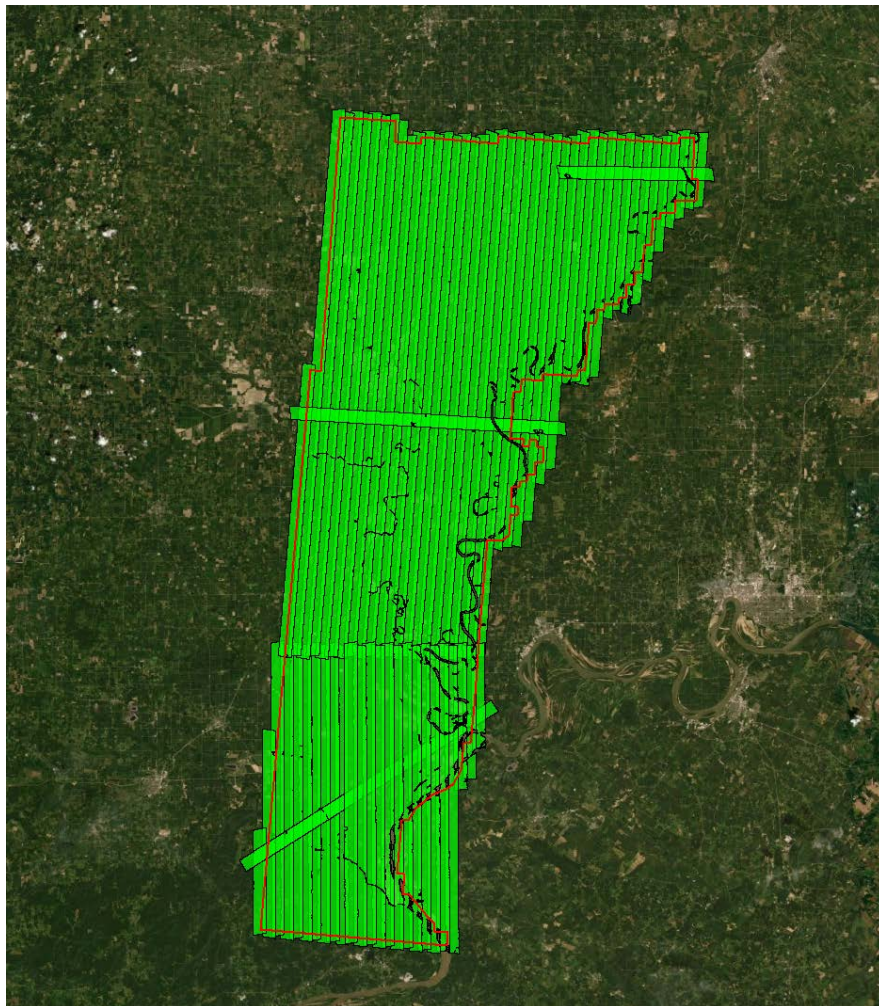


Figure 4: LiDAR swath output showing SurvTech Solutions' complete coverage

Boresight and Relative Accuracy

Aerial Services Incorporation lidar analysts load the project's data into MicroStation/TerraScan for viewing and post-processing of calibration errors. Roll, pitch, and heading corrections are calculated to produce the best relative accuracy that can be achieved, with a maximum interswath RMSDz of 8 cm. Tested interswath RMSDz was 2.4 cm.

The relative accuracy of every swath is checked and QC'd at 3 different points along its length. Cross sections are visually inspected across each block to validate point to point, flight line to flight line and mission to mission agreement to verify that the project meet the specifications.

For this project the specifications used are as follow

Relative accuracy ≤ 6 cm maximum differences within individual swaths and ≤ 8 cm RMSDz between adjacent and overlapping swaths.

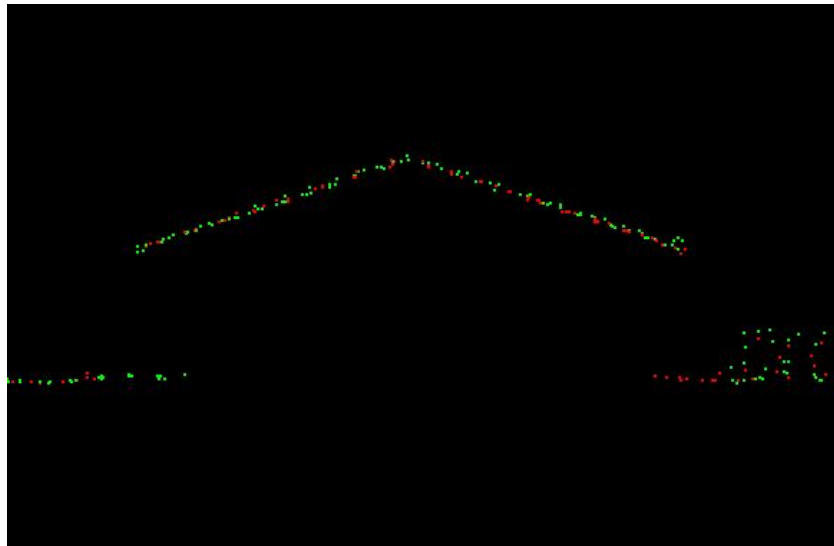


Figure 6: Profile view showing proper interswath calibration.

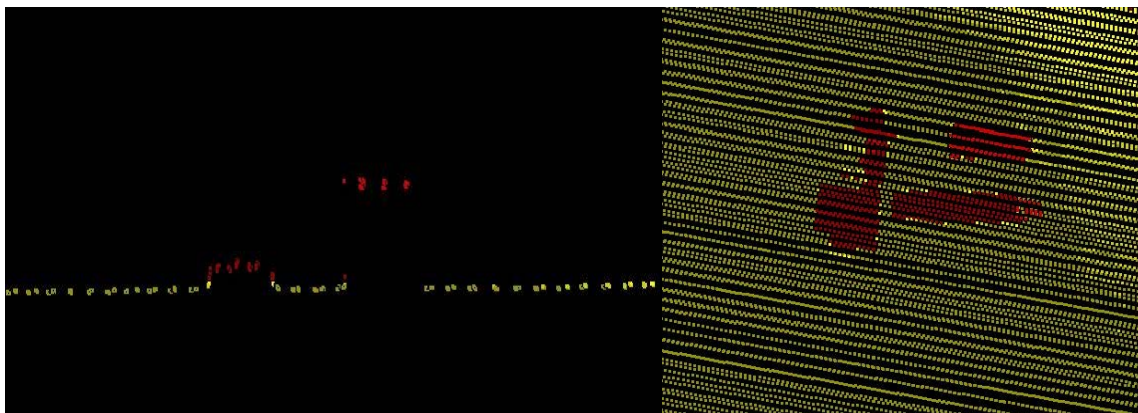


Figure 7: Top view showing a parking lot with a car and raised feature on a single swath demonstrating intraswath accuracy. Yellow color is scaled to a range of 6 cm in elevation. Points are within 6 cm of variation until the raised curb and car. Also shown is a profile view showing low variability of ranges within the swath.

SurvTech Solutions lidar analysts inspect the initial points for each mission calibration 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 RMSD_z between adjacent and overlapping swaths.

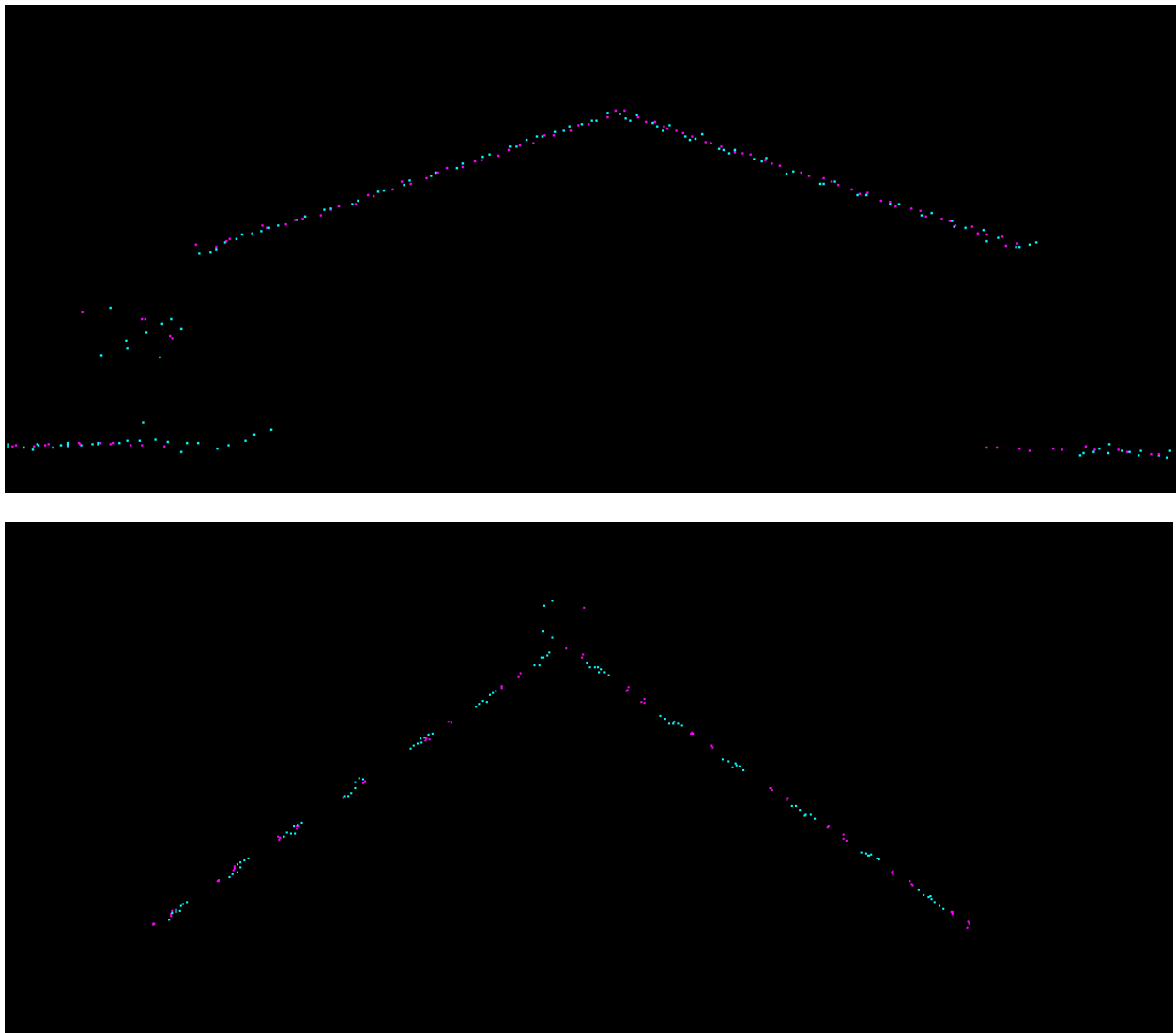


Figure 8: Profile views showing correct roll and pitch adjustments

Aerial Survey International lidar analysts inspect the initial points for each mission calibration for flight line errors, flight line overlap, slivers, or gaps in the data, point density 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 vertical errors greater than the required 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 RMSD_z between adjacent and overlapping swaths.



Figure 9: Profile views showing correct roll and pitch adjustments

DELTA-Z ACCURACY ASSESSMENT

Swath-to-swath relative accuracy is assessed by comparing the elevations of overlapping swaths. Delta-z is a raster file representing the differences in elevation of overlapping swaths and is generated from the subtraction of the two raster files created from each swath over the entire area of interest. It is then used to calculate the RMSDz, which in turn is displayed as a visual representation of error distribution.

The image below is a LIDAR “ortho” image created from the laser return intensity, Z (elevation) and swath number. The image is rendered as grayscale where there is no overlap between data from different flight lines (swath). Where two (or more) flight lines overlap, a color rendering is constructed based on the average maximum elevation difference between points in the overlapping swath. The distance (dZ) is indexed into a user-defined color. In the image below, four-color bands were separated into 8 cm increments. Thus green represents dZs from 0 to 8 cm, yellow from 8 cm to 16 cm, orange from 16 cm to 24 cm and red for dZ greater than 24 cm. The dZ image provides a quick method of quickly assessing the relative vertical accuracy of a LiDAR project.

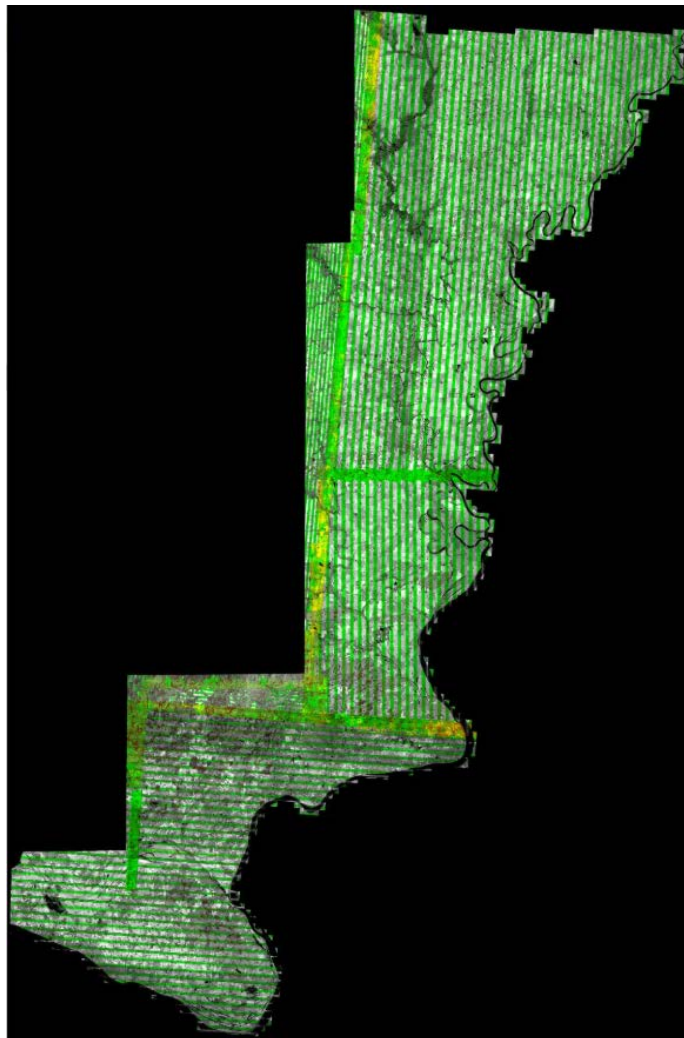


Figure 10: Block_2_East_HicksDome_FluorsparDistrict, Illinois Project Delta-z raster image.

Final Calibration Verification

Surveying and Mapping, LLC (SAM) conducted the survey for 35 ground control points (GCPs) which were used to test the accuracy of the calibrated swath data. These 35 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 following table and the accuracy results from testing the calibrated swath data against the GCPs is provided in table below; no further adjustments to the swath data were required based on the accuracy results of the GCPs. Accuracy of the raw point cloud against GCP: 0.048 meters with a 95% confidence value of 0.094 meters.

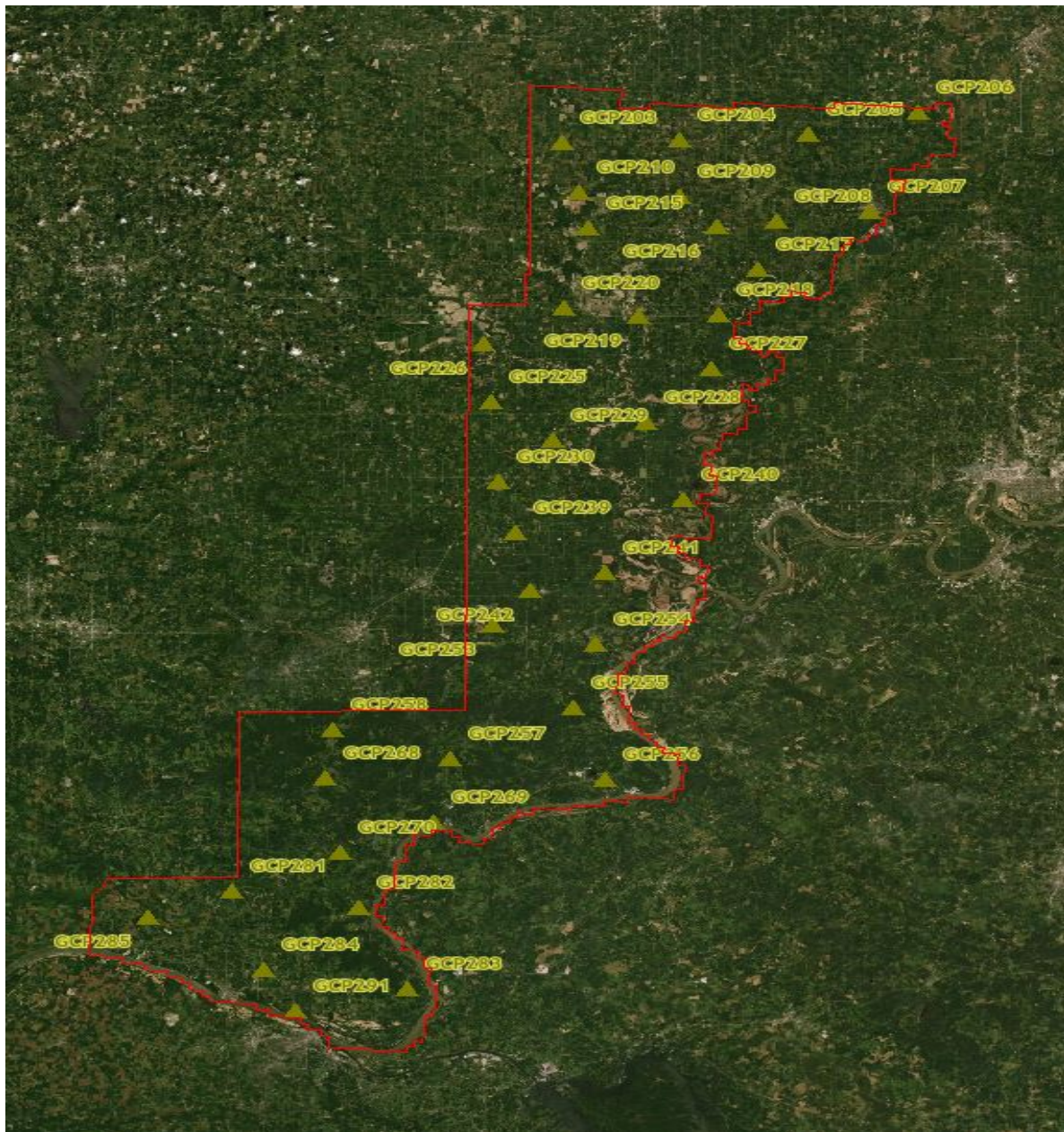


Figure 11: surveyed Ground Control Point Locations

Point ID	NAD83 (2011 adj) IL East		NAVD88 (Geoid 12B)		Dz (USft)
	Easting X (USft)	Northing Y (USft)	Z-Survey (USft)	Z-LiDAR (USft)	
GCP203	1013422.87	673100.44	497.279	506.10	-0.004
GCP204	1063327.88	674641.92	534.142	456.10	-0.18
GCP205	1119101.88	678057.52	473.502	452.85	-0.006
GCP206	1166877.98	690908.8	430.257	437.19	0.02
GCP207	1145775.42	633317.64	424.000	443.92	-0.004
GCP208	1105087.01	627282.79	410.346	412.28	-0.088
GCP209	1063438.05	641932.08	462.162	390.83	-0.003
GCP210	1020199.08	644186.85	415.847	453.49	-0.01
GCP215	1024065.89	623374.7	390.513	502.25	0.045
GCP216	1079877.9	624011.62	400.512	393.06	0.043
GCP217	1097393.75	599184.91	396.319	401.79	-0.061
GCP218	1080279.57	572883.47	406.941	434.41	0.042
GCP219	1046287.39	572230.19	386.347	437.85	0.009
GCP220	1013457.54	576463.11	432.878	474.01	-0.009
GCP225	982527.17	522265.28	479.554	444.30	0.006
GCP226	979608.06	556128.37	430.952	411.91	0.043
GCP227	1077001.99	541425.21	386.84	495.19	0.049
GCP228	1049475.6	510123.89	392.074	371.75	-0.039
GCP229	1009074.04	499814.33	402.689	379.50	-0.02
GCP230	985480.52	475430.39	416.703	393.29	-0.023
GCP239	993088.3	446051.58	382.961	437.08	-0.026
GCP240	1065105.89	464850.12	379.995	447.52	-0.005

GCP241	1031612.53	422051.82	378.499	575.29	0.03
GCP242	999081.94	412333.75	385.402	494.83	0.039
GCP253	983240.45	392227.83	399.625	465.88	-0.016
GCP254	1027451.19	380650.67	399.503	415.28	-0.011
GCP255	1017810.01	343665.52	382.656	383.22	-0.156
GCP256	1031628.63	301870.42	473.21	525.60	-0.022
GCP257	964490.95	314325.53	435.179	749.99	0.046
GCP258	914322.52	330974.76	660.887	751.27	-0.027
GCP268	911220.3	302567.91	646.16	496.10	-0.021
GCP269	957649.87	276892.14	507.952	376.88	-0.034
GCP270	917113.06	259453.73	470.82	377.10	-0.04
GCP281	870945.94	236962.74	343.405	337.22	-0.034
GCP282	925313.12	226968.51	344.389	376.85	0.067

Table 8: Block_2_East_HicksDome_FluorsparDistrict, Illinois Project surveyed ground control points (GCPs).

This project met Ground Control Point Vertical Accuracy (GCP) ≤ 19.6 cm at the 95% confidence level based on $RMSE_z \leq 10$ cm x 1.9600.

100 % of Totals	# of Points	RMSEz GCP (m)	NVA- Non-vegetated Vertical Accuracy ((RMSEz x 1.9600)m
GCP	35	0.048	0.094

Table 9: Ground Control Points (GCP) vertical Accuracy of the RAW vertical accuracy results.

DATA CLASSIFICATION AND EDITING

Once the calibration, absolute swath vertical accuracy, and relative accuracy of the data were confirmed, ASI, SurvTech Solutions and GRW 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. ASI 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. ASI 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 utilizes 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. Points were identified as withheld during the classification so withheld bit was applied. 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 converted from LAS v1.2 to LAS v1.4 using TerraScan software to flag the overlap bit and withheld bit. LP360 64bit 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 61,025,457,669 lidar points the following table shows the total number of points for every class.

Project Count by Class		
Class 1	Processed, unclassified	10720525326
Class 2	Bare-earth ground	19075518255
Class 3	Low vegetation (0.5-5 ft)	256697034
Class 4	Medium vegetation (5-20 ft)	877184338
Class 5	High vegetation (>20 ft)	2944990025
Class 7	Low Noise	1074354
Class 9	Water	119240766
Class 17	Bridge Decks	1385476
Class 18	High Noise	1015609
Class 20	Ignored_Ground	2680840
Class Overlap 1	Overlap Processed, unclassified	11674774104

Class Overlap 2	Overlap Bare-earth ground	6944403416
Class Overlap 3	Overlap Low vegetation (0.5-5 ft)	199687164
Class Overlap 4	Overlap Medium vegetation (5-20 ft)	601935408
Class Overlap 5	Overlap High vegetation (>20 ft)	1911624019
Class Overlap 7	Overlap Low Noise	866619
Class Overlap 9	Overlap Water	2511888
Class Overlap 17	Overlap Bridge Decks	727756
Class Overlap 18	Overlap High Noise	727944
Class Overlap 20	Overlap Ignored_Ground	707781
Class Withheld 1	Withheld Processed, unclassified	907499599
Class Withheld 2	Withheld Bare-earth ground	604999171
Class Withheld 3	Withheld Low vegetation (0.5-5 ft)	72475124
Class Withheld 4	Withheld Medium vegetation (5-20 ft)	180305698
Class Withheld 5	Withheld High vegetation (>20 ft)	776832147
Class Withheld 7	Withheld Low Noise	292254
Class Withheld 9	Withheld Water	2064253
Class Withheld 17	Withheld Bridge Decks	44422
Class Withheld 18	Withheld High Noise	2325
Class Withheld 20	Withheld Ignored_Ground	31531
Class Overlap Withheld 1	Overlap Withheld Processed, unclassified	1309253128
Class Overlap Withheld 2	Overlap Withheld Bare-earth ground	663380457
Class Overlap Withheld 3	Overlap Withheld Low vegetation (0.5-5 ft)	84553061

Class Overlap Withheld 4	Overlap Withheld Medium vegetation (5-20 ft)	207908234
Class Overlap Withheld 5	Overlap Withheld High vegetation (>20 ft)	876162239
Class Overlap Withheld 7	Overlap Withheld Low Noise	372480
Class Overlap Withheld 9	Overlap Withheld Water	943115
Class Overlap Withheld 17	Overlap Withheld Bridge Decks	34343
Class Overlap Withheld 18	Overlap Withheld High Noise	2069
Class Overlap Withheld 20	Overlap Withheld Ignored_Ground	23897
Project Total Count		61025457669

TABLE 10: 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 for Block_2_East_HicksDome_FluorsparDistrict 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 Block_2_East_HicksDome_FluorsparDistrict 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).

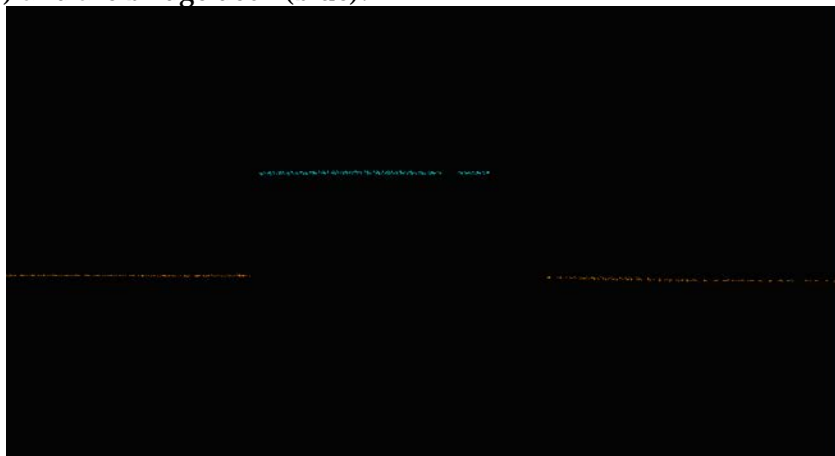


Figure 12: Profile view of a classified bridge deck (blue) and ground (orange).

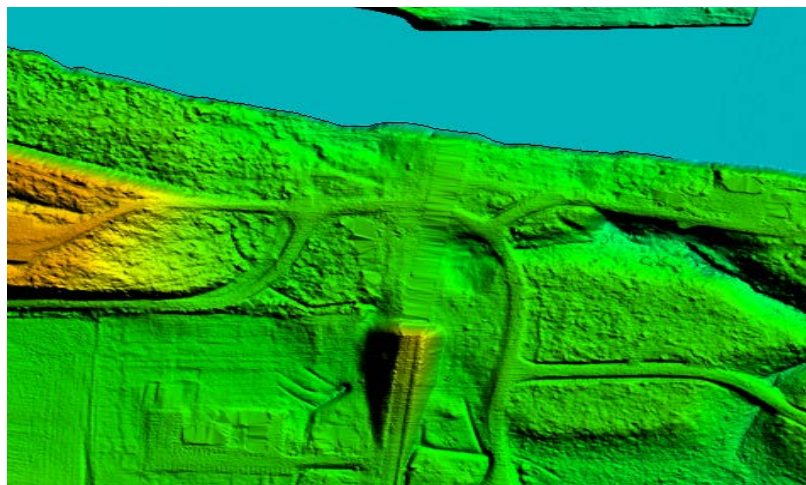


Figure 13: DEM with bridge removed from surface model.

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.

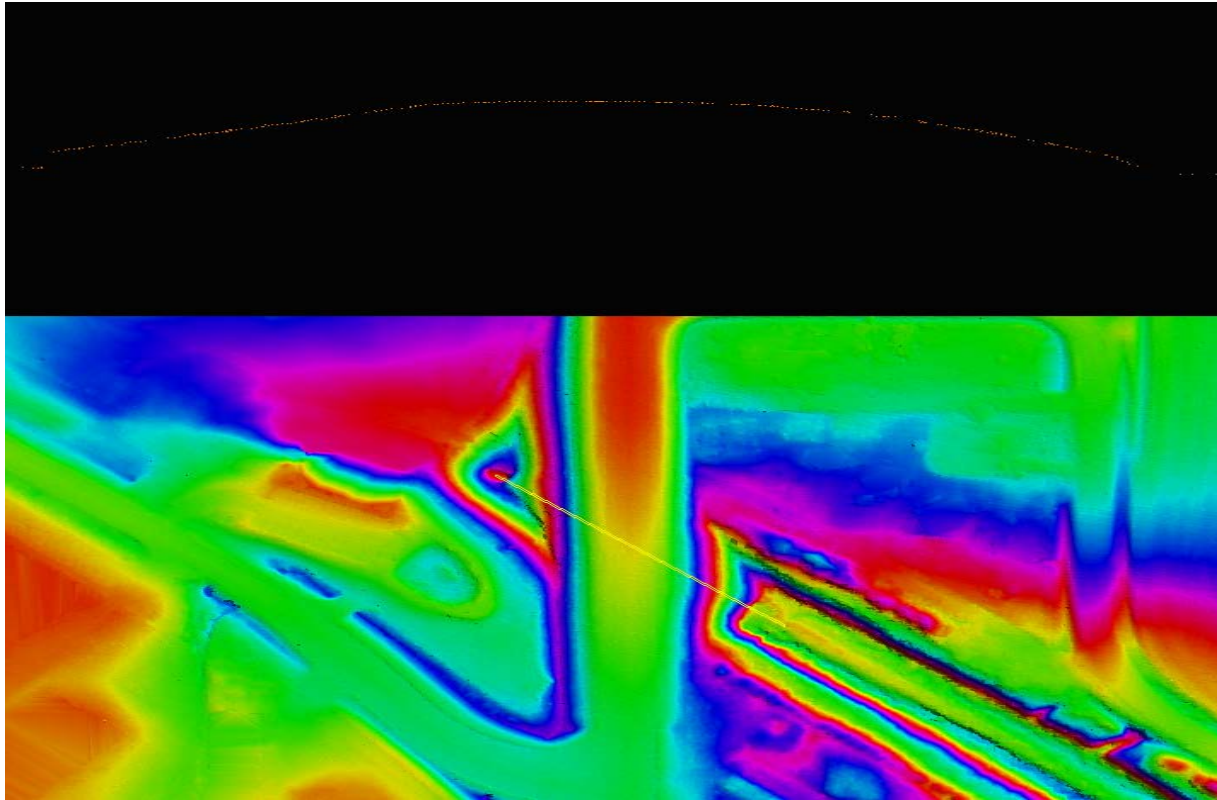


Figure 14: Profile with points colored by class (class 1=white, class 2=orange) is shown in the top view and the DEM is shown in the bottom view. This culvert remains in the bare earth surface. Bridges have been removed from the bare earth surface and classified to class 17.

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.

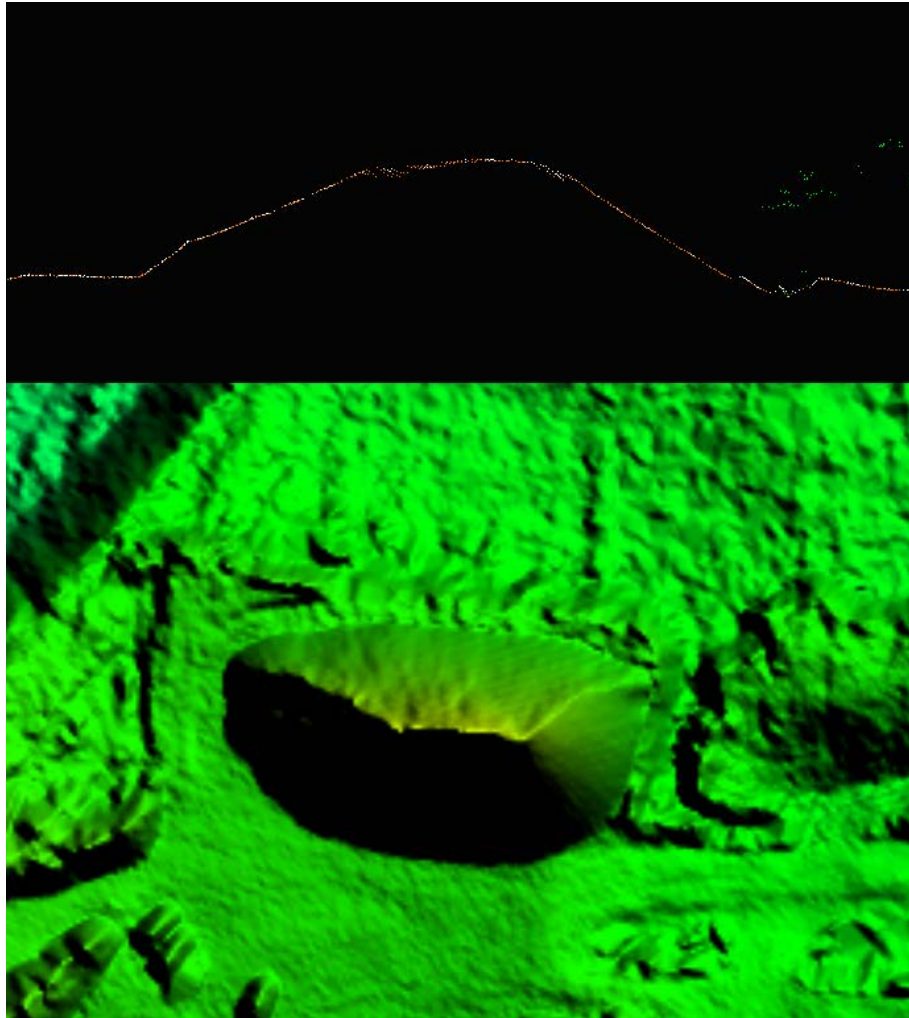


Figure 15: Profile with the points colored by class (unclassified points are white, ground points are orange) is shown on the right and a DEM of the surface is shown to the left. These features are correctly included in the ground classification.

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.

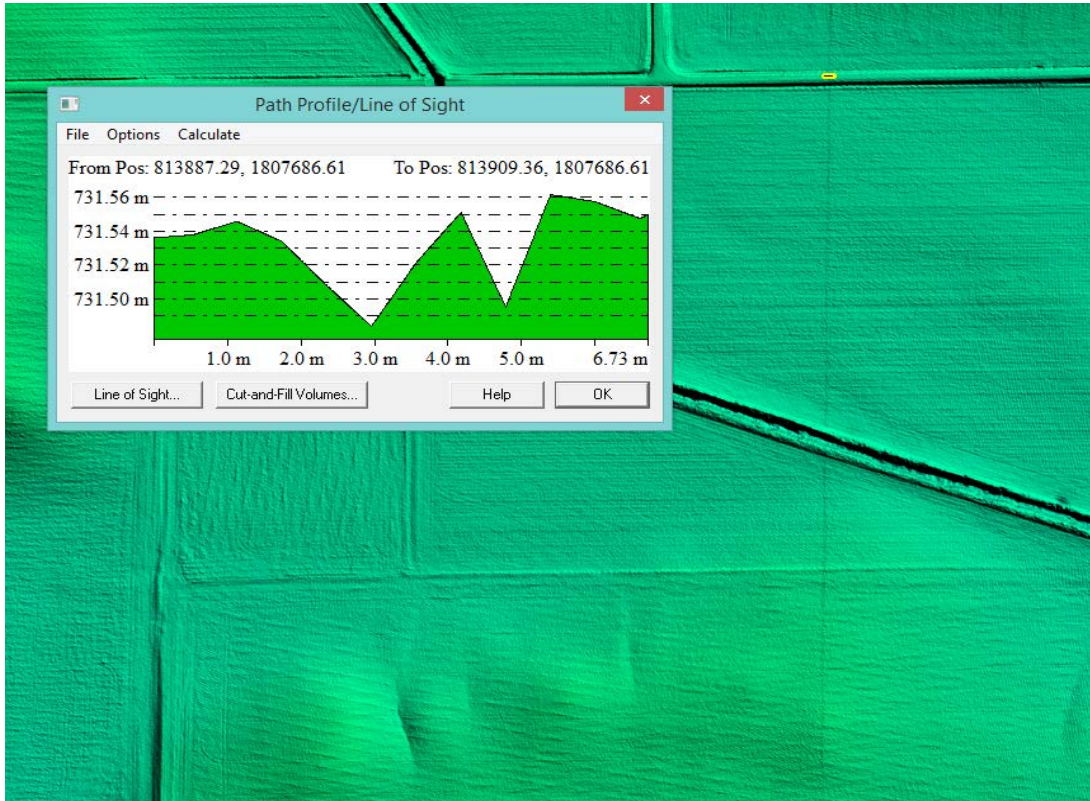


Figure 16: The flight line ridge is less than 8 cm. Overall; Block_2_East_HicksDome_FluorsparDistrict project data meets the project specifications for 8 cm RMSDz relative accuracy requirement.

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 Block_2_East_HicksDome_FluorsparDistrict Lidar project area.

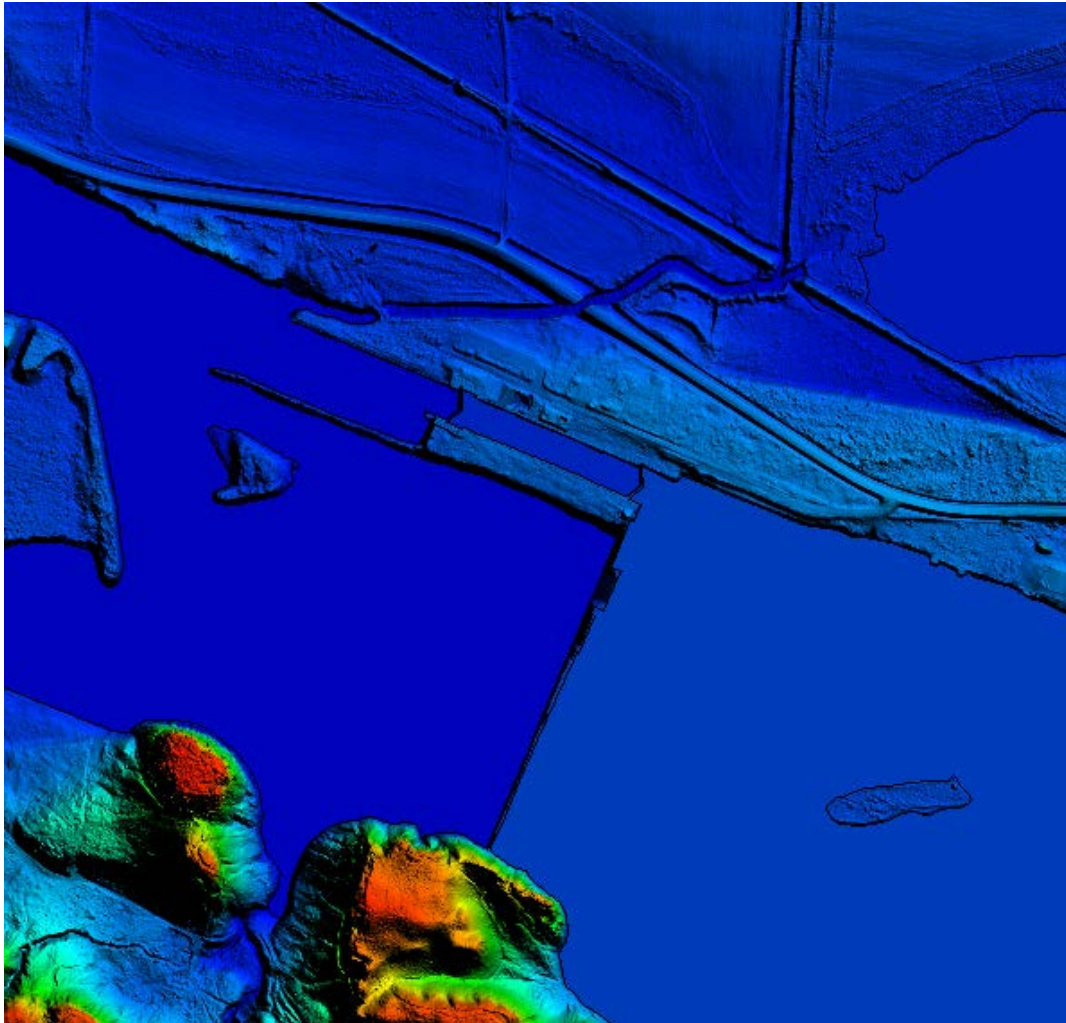


Figure 17: DEM shows Large Dam structure that disrupts natural monotonic river flow, coupled with a lock system.

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 discreet 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. ASI also tests the horizontal accuracy of LiDAR datasets when checkpoints are photo-identifiable in the intensity imagery. Photo-identifiable checkpoints in intensity imagery typically include checkpoints located at the ends of paint stripes on concrete or asphalt surfaces or checkpoints located at 90 degree corners of different reflectivity, e.g. a sidewalk corner adjoining a grass surface. The XY coordinates of checkpoints, as defined in the intensity imagery, are compared to surveyed XY coordinates for each photo-identifiable checkpoint. These differences are used to compute the tested horizontal accuracy of the LiDAR. As not all projects contain photo-identifiable checkpoints, the horizontal accuracy of the LiDAR cannot always be tested.

SURVEY VERTICAL ACCURACY CHECKPOINTS

For the vertical accuracy assessment of Block_2_East_HicksDome_FluorsparDistrict project, fifty three check points were surveyed. All of those check points are located within bare earth/open terrain (53 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) State Plane IL_East	NAD83 (2011) State Plane IL_East	NAVD88 (Geoid192B)
	Easting (USft)	Northing (USft)	Elevation (USft)
NVA204	1043068.7	676979.47	415.883
NVA205	1077161.7	677202.36	485.129
NVA206	1162300.8	679226.54	443.706
NVA207	1145378.9	648345.78	446.611
NVA208	1121115	658453.32	444.683
NVA209	1081059.2	648930.02	458.078
NVA210	1014947.3	652526.96	425
NVA216	1062633.2	622942.18	521.779
NVA217	1114573.4	634015.39	456.21
NVA218	1118990.3	613285.53	433.907
NVA219	1082950.4	587295.52	409.448
NVA220	1005999.5	580526.08	405.896
NVA227	1032397.1	552192.46	399.166
NVA228	1074421.1	561642.33	434.749
NVA229	1099348.3	532999.06	379.869
NVA230	1063655.4	528599.22	411.583
NVA231	1061480.8	544422.29	398.088
NVA232	1033766.5	518090.33	388.886
NVA233	983389.87	539106.14	413.277
NVA242	989485.31	478468.59	438.983
NVA243	1009754.1	500634.69	414.753
NVA244	1057459.3	499463.73	370.435
NVA245	1042603.1	452469.58	372.075
NVA246	1004494.3	452211.81	444.113
NVA247	977525.16	452379.32	400.912
NVA254	1024958.5	412997.45	380.706
NVA255	999200.37	422955.24	377.835
NVA267	998004.69	391484.82	377.626
NVA268	1039538.9	375132.43	372.237
NVA269	1006851	354028.78	377.367
NVA270	972462.42	366436.3	407.451
NVA281	962319.19	326825.04	426.064
NVA282	997704	336172.96	656.492
NVA283	1027782.3	327514.97	391.665
NVA284	1032355.1	293214.26	373.437

NVA285	1008847.4	299053.32	457.955
NVA286	996377.54	300974.83	506.084
NVA287	963189.64	289028.53	444.625
NVA288	912875.27	316699.81	801.535
NVA301	888247.18	289829.6	395.7
NVA302	980281.93	275264.25	351.001
NVA303	939166.96	255323.88	353.618
NVA304	884832.05	261429.32	476.626
NVA314	830511.23	227849.6	343.159
NVA315	862579.23	231443.48	365.007
NVA316	929019.69	236781.92	501.493
NVA317	927350.32	215427.6	357.529
NVA319	884369.41	199357.55	463.694
NVA320	851381.69	195381.86	385.613
NVA328	874306.99	177901.67	338.682
NVA329	916932.67	165995.98	346.747
NVA330	945787.93	188563.8	453.434
NVA331	951005.3	165981.68	346.375
VVA203	1016004	702770.37	424.464
VVA204	1075151.3	677273.17	472.267
VVA205	1164779.6	678404.16	438.405
VVA206	1140703.1	639548.7	454.983
VVA207	1079345.8	647372	477.709
VVA208	1015016	671603.53	491.887
VVA213	1021414.7	616743.72	389.323
VVA214	1083512.1	624507.55	399.521
VVA216	1074747.8	561316.38	435.827
VVA217	1031068.3	558982.84	503.46
VVA218	980293.7	577094.59	386.612
VVA223	981145.08	522327.87	482.879
VVA224	1037992.7	521166.59	384.761
VVA225	1067818.8	498625.41	370.053
VVA226	1011207.1	502594.47	423.565
VVA226	1067818.8	498625.44	369.987
VVA227	985124.08	478178.87	421.787
VVA238	992943.16	446827.03	376.167
VVA239	1039443.5	451937.64	396.778
VVA241	1005367	414024.77	361.973
VVA251	977127.69	392973.3	410.501
VVA252	1025182.9	380392.14	387.619

VVA253	1000467.6	369666.68	379.869
VVA263	903708.93	332205.78	807.475
VVA264	943995.3	323727.61	784.508
VVA266	1042395.4	327446.86	550.652
VVA267	1032234.2	296170.71	416.441
VVA268	982862.94	284800.8	440.289
VVA269	963446.34	302341.21	451.912
VVA270	909485.69	303884.6	714.449
VVA282	883948.59	261471.7	417.724
VVA283	938606.88	253088.18	416.057
VVA284	922400.91	241347.57	403.628
VVA285	867635.29	236731.04	341.217
VVA286	820882.1	227477.85	391.748
VVA292	820947.1	209161.86	391.012
VVA293	884317.73	192480.28	400.4
VVA294	936658.47	211953.15	342.842
VVA295	924150.54	166021.47	366.006

Table 11: Block_2_East_HicksDome_FluorsparDistrict project LiDAR Checkpoints.

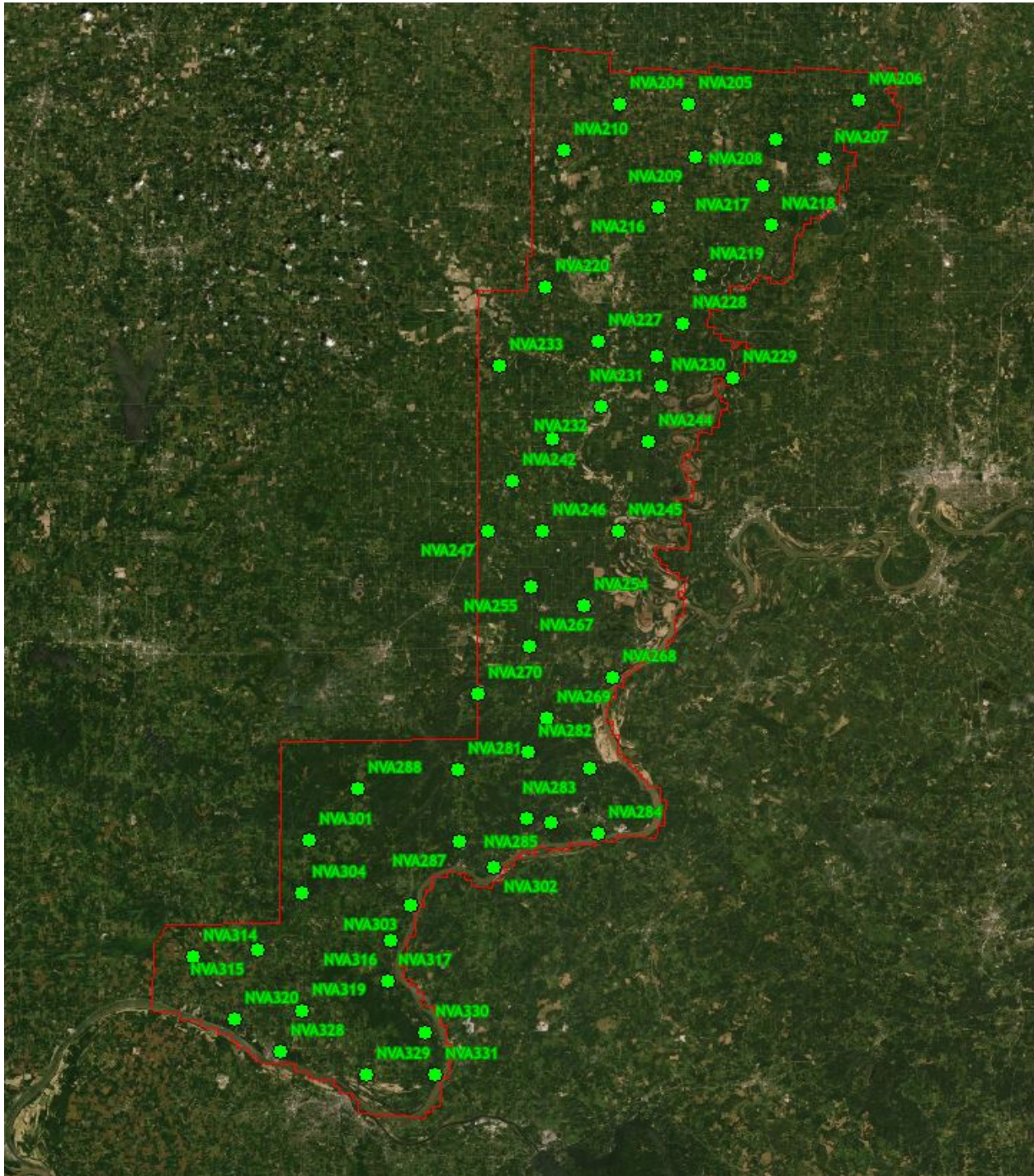


Figure 18: Location of Block_2_East_HicksDome_FluorsparDistrict LiDAR NVA Checkpoints

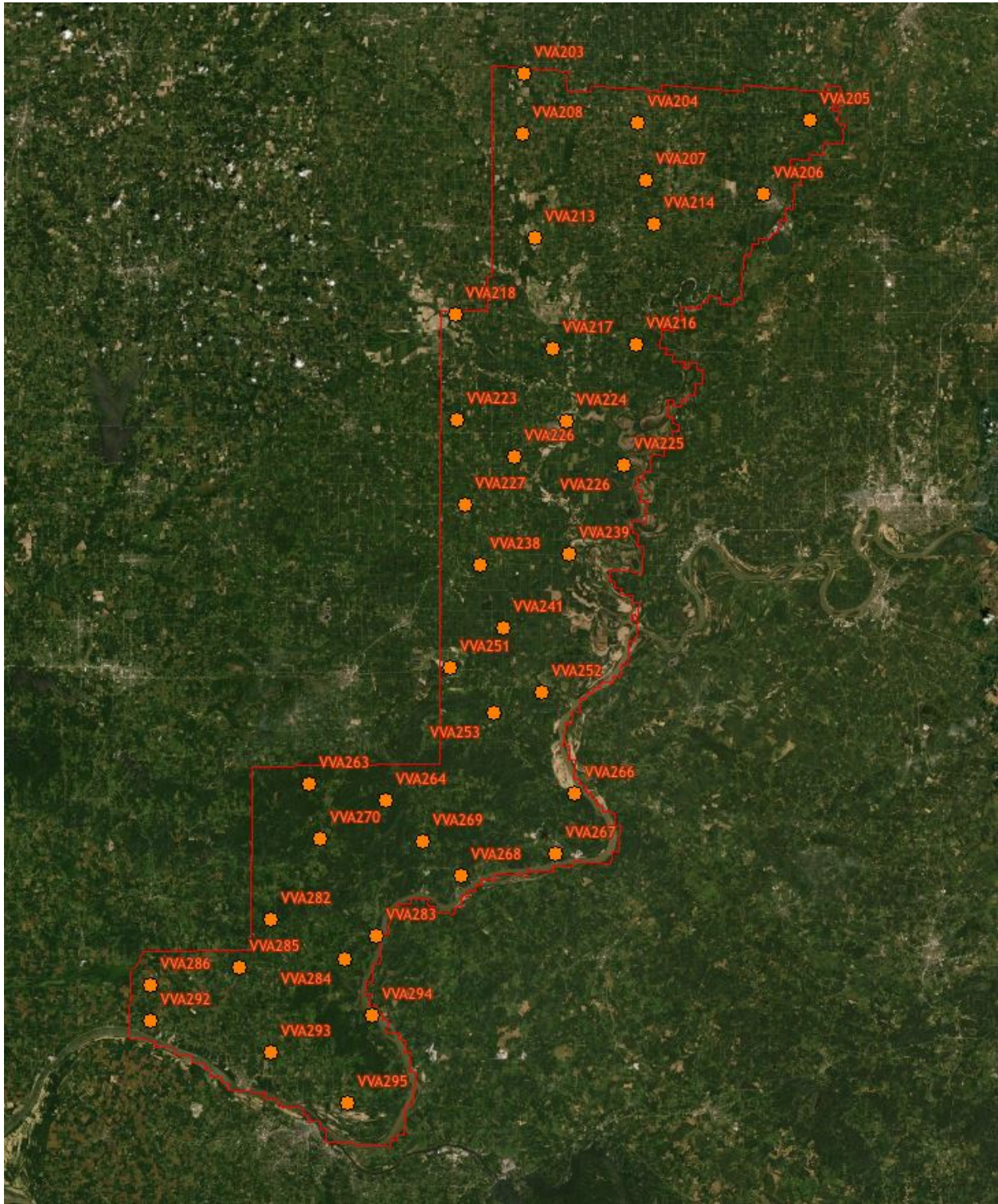


Figure 19: No VVA Checkpoints were located in Block_2_East_HicksDome_FluorsparDistrict

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 Block_2_East_HicksDome_FluorsparDistrict project, vertical accuracy must be 19.6 cm or less based on an RMSEz of 10 cm 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. The Block_2_East_HicksDome_FluorsparDistrict Lidar project VVA standard is 29.4 cm 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 12: Acceptance Criteria.

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

1. SAM 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	53	0.095	
VVA	39		0.107

Table 13: Tested NVA and VVA.

The following table contains results from vertical testing of Non-vegetated Vertical Accuracy (NVA) checkpoints against elevation values in the classified Lidar LAS files.

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	53	0.049	0.095	0.016	-0.019	-0.036	0.046	-0.163	0.109	-0.036

Table 14: Non Vegetated Vertical (NVA) accuracy assessment results.

HORIZONTAL ACCURACY TEST PROCEDURES

This data set was produced to meet ASPRS “Positional Accuracy Standards for Digital Geospatial Data” (2014) for an overall horizontal accuracy of +/- 29 (cm) RMSE_x / RMSE_y Horizontal Accuracy Class which equates to Positional Horizontal Accuracy = +/- 57 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 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 checked 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. Streams 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 0.4 hectares (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 to finalize the Intensity's projection.

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. 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. This lidar survey was conducted over a span of time consisting of both day and nighttime missions. In this data set Lidar collected during daytime hours tends to have intensity returns of lighter higher range values as opposed to dark lower range value intensity returns of missions flown at night. Lighter daytime and darker nighttime intensity values are evident in the intensities of this dataset. Intensity values vary due to how the intensity value is recorded by each scanner used for the collection. A linear adjustment has been applied to the LAS of this project to help balance the light and dark contrasts between scanners.

Figure below, is an example of an Intensity Image that contains both daytime and nighttime collections of lidar data. The left side of the image contains higher intensity values consistent with a daytime collection, while the darker right side exhibits lower intensity values consistent with a night time collection.



Figure 20: Intensity Image example.

DEM Production & Qualitative Assessment

DEM PRODUCTION METHODOLOGY

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

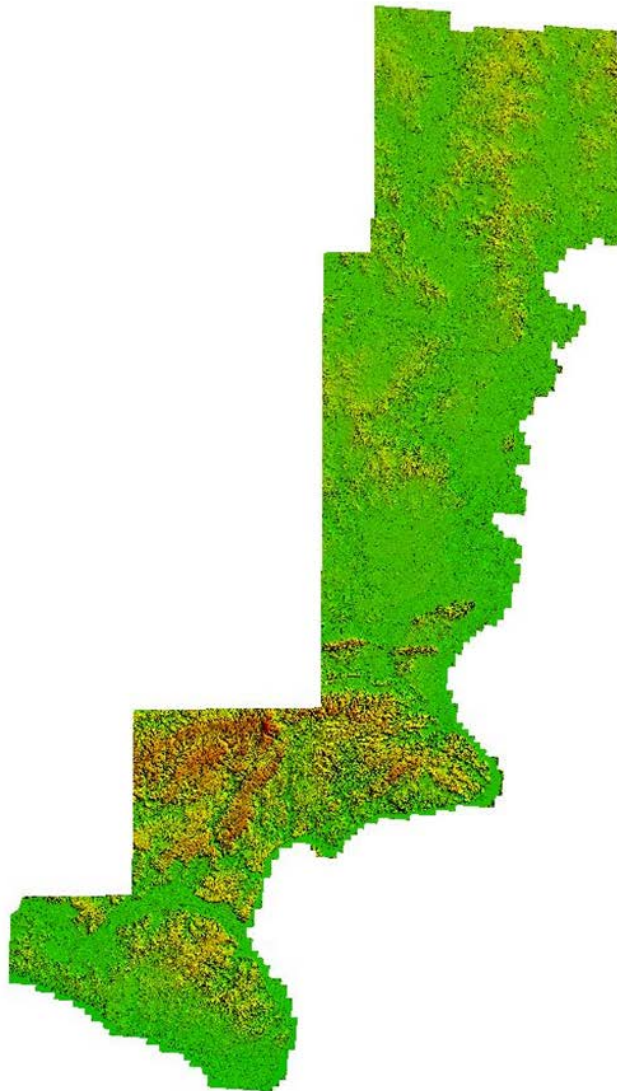


Figure 21: Block_2_East_HicksDome_FluorsparDistrict Project Area bare earth DEM

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 hydro flattened bare earth DEM.

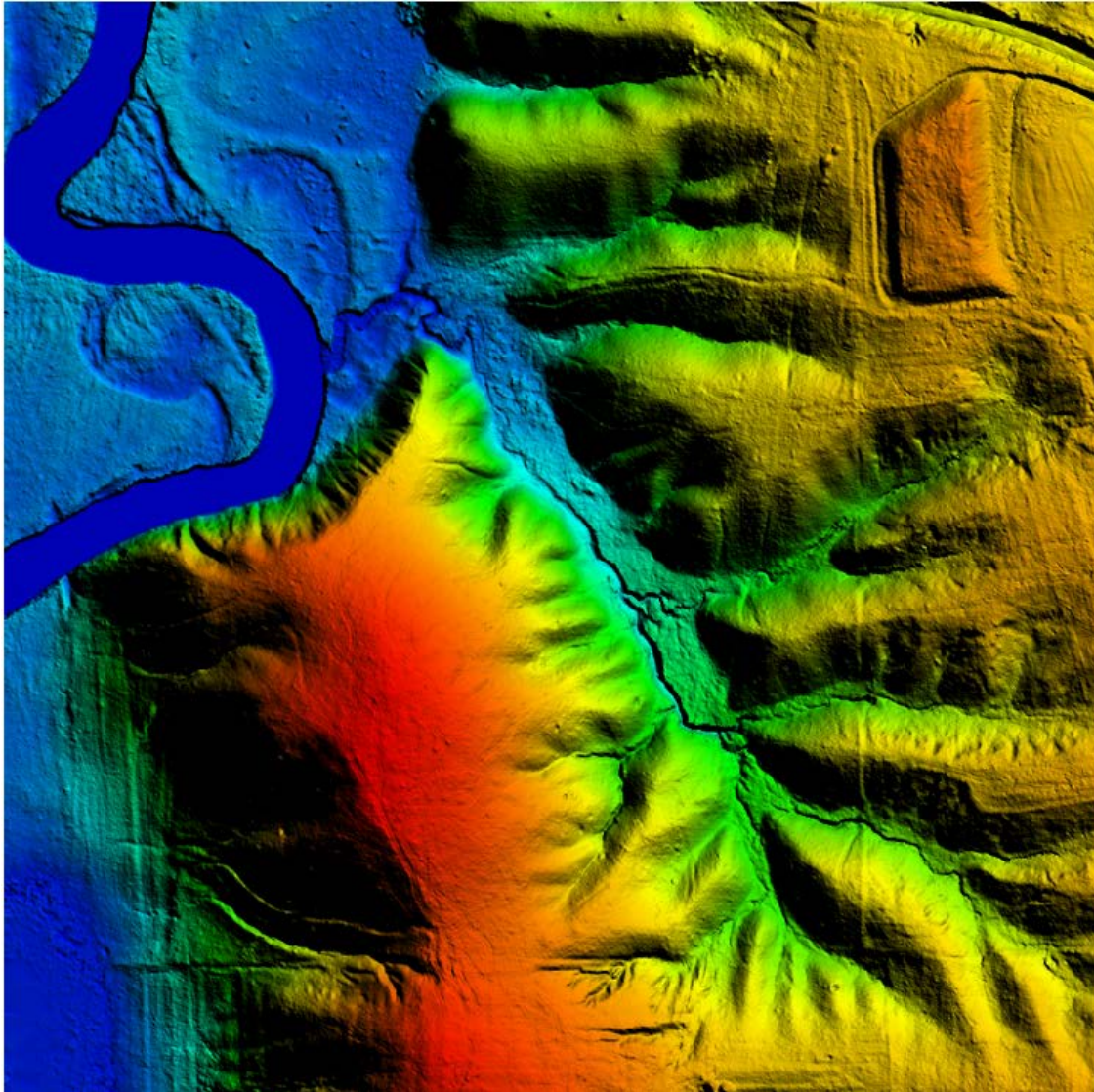


Figure 22: Block_2_East_HicksDome_FluorsparDistrict project bare earth DEM

DEM VERTICAL ACCURACY RESULTS

The same 53 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 following Table; 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	53	0.093	
VVA	39		.077

Table 16: 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 = 0.048 m with a 0.093 m accuracy at 95 % confidence level. Actual VVA accuracy tested 0.077 meters 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 Block_2_East_HicksDome_FluorsparDistrict project satisfies the project's pre-defined vertical accuracy criteria.

Appendix A: List of Delivered LAS File

1001_2850	1001_3650	1001_4450	1001_5250	1001_6050
1001_2870	1001_3670	1001_4470	1001_5270	1001_6070
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Appendix B: Mission GPS and IMU Processing Report

Aerial Services, Inc. Reports.

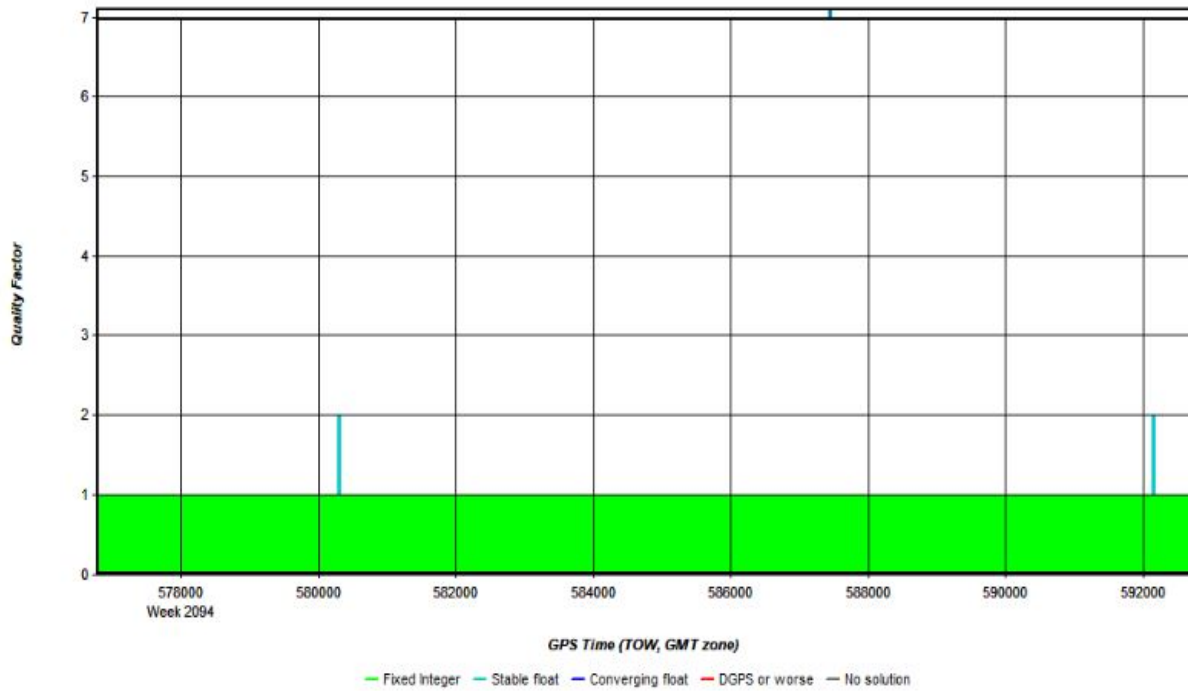
20200229_161043_QC Report.docx QC Report - 7/23/2021 10:33:00
Smoothed Trajectory Information

Top View

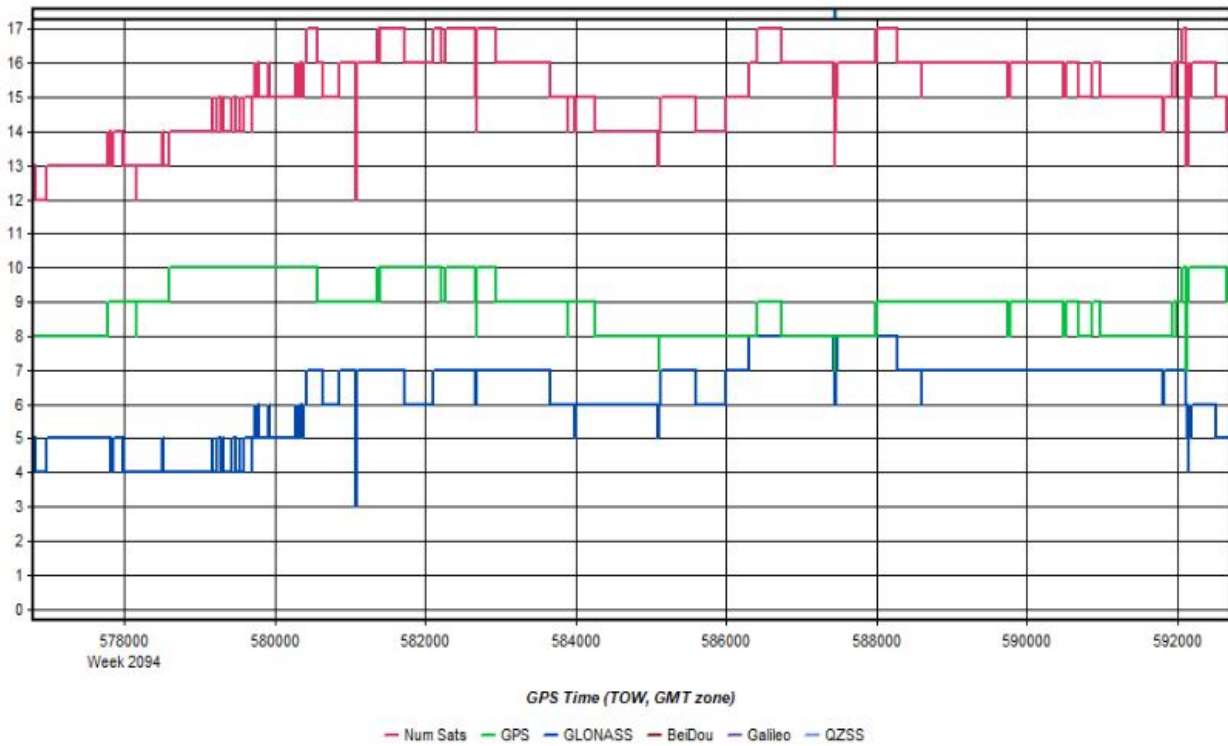


GNSS QC

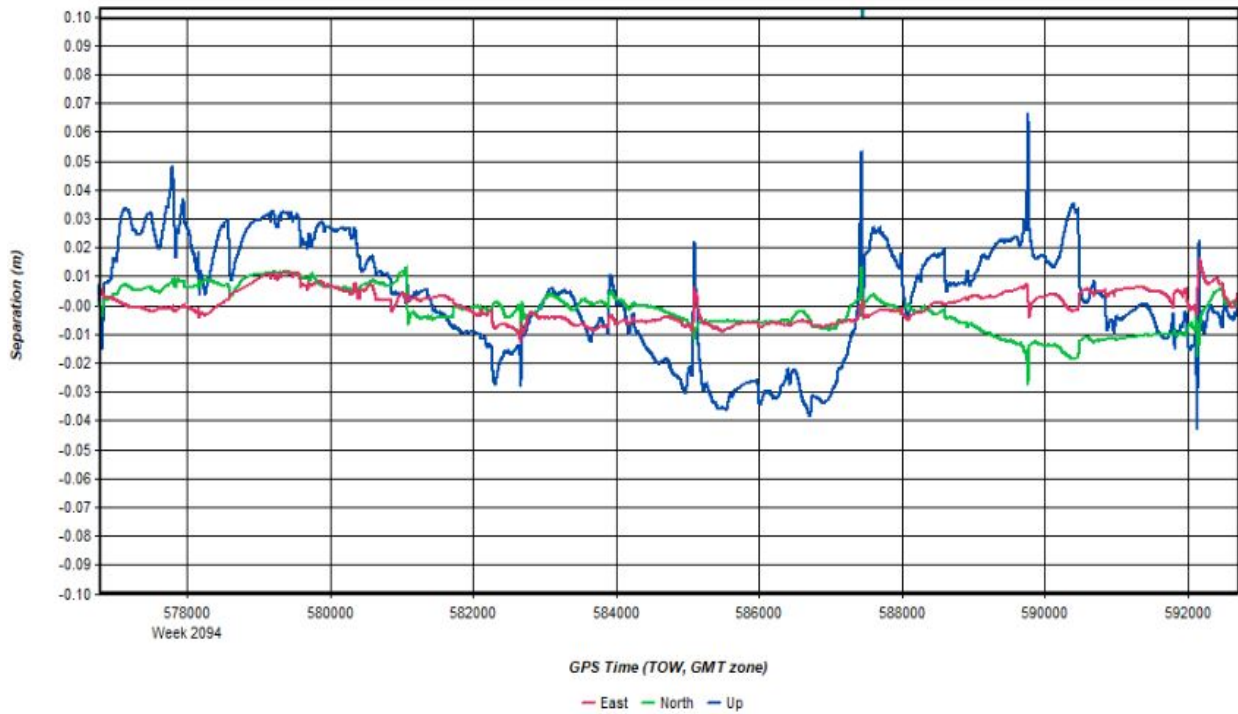
GNSS Quality Factor



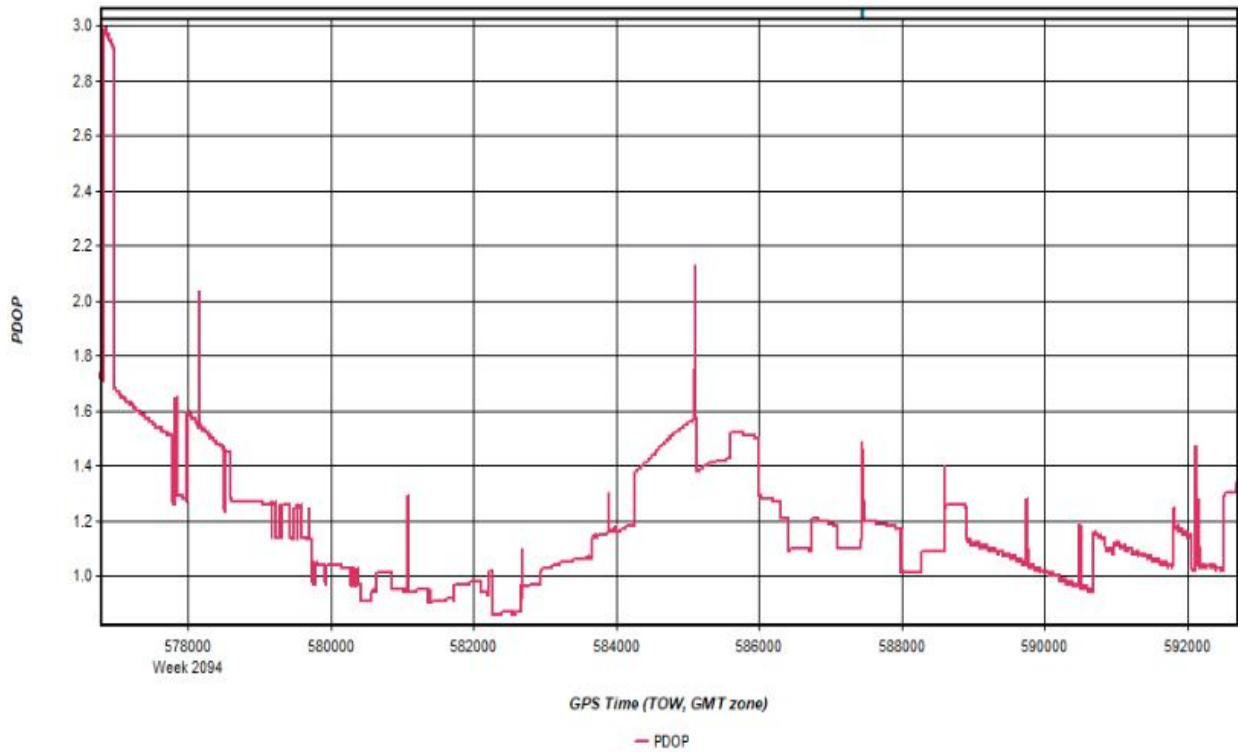
Number of Satellites



Forward/Reverse Separation



PDOP



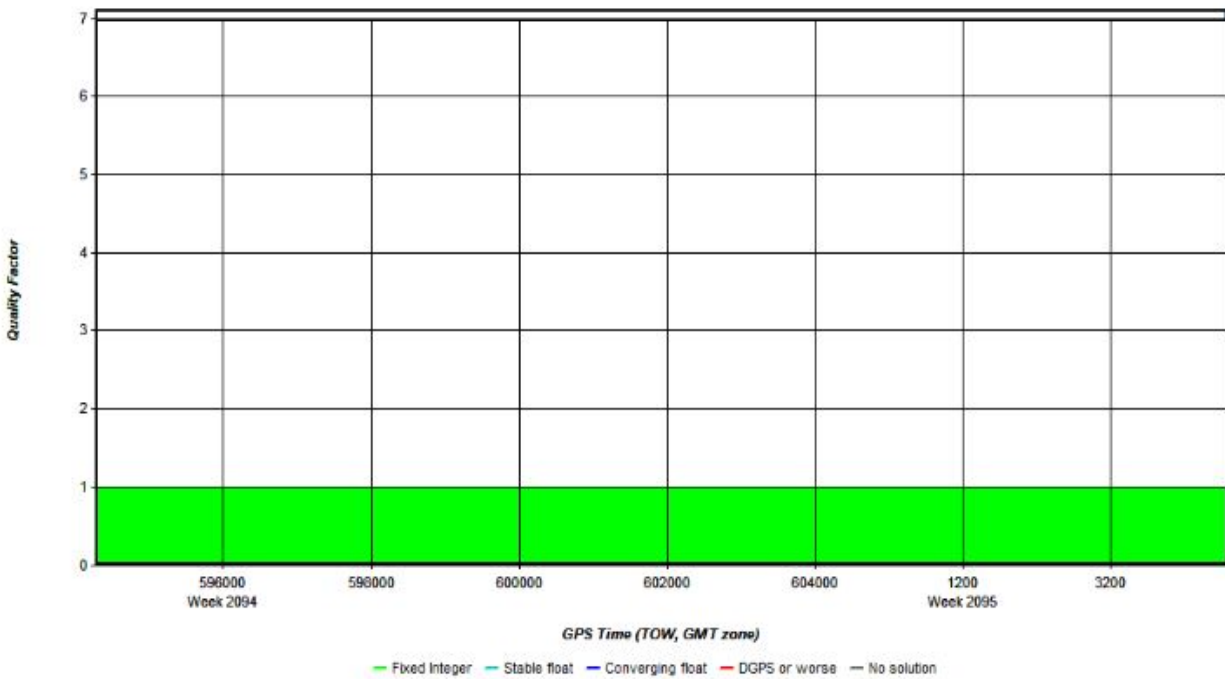
Smoothed Trajectory Information

Top View

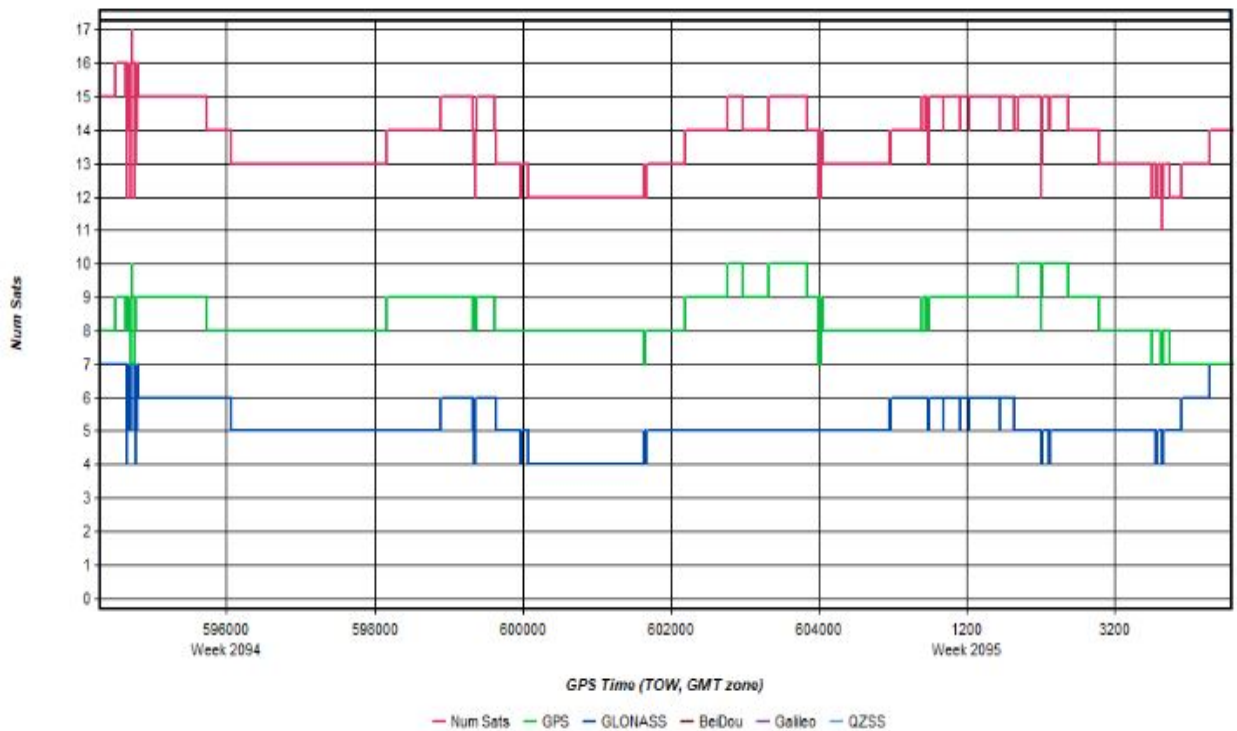


GNSS QC

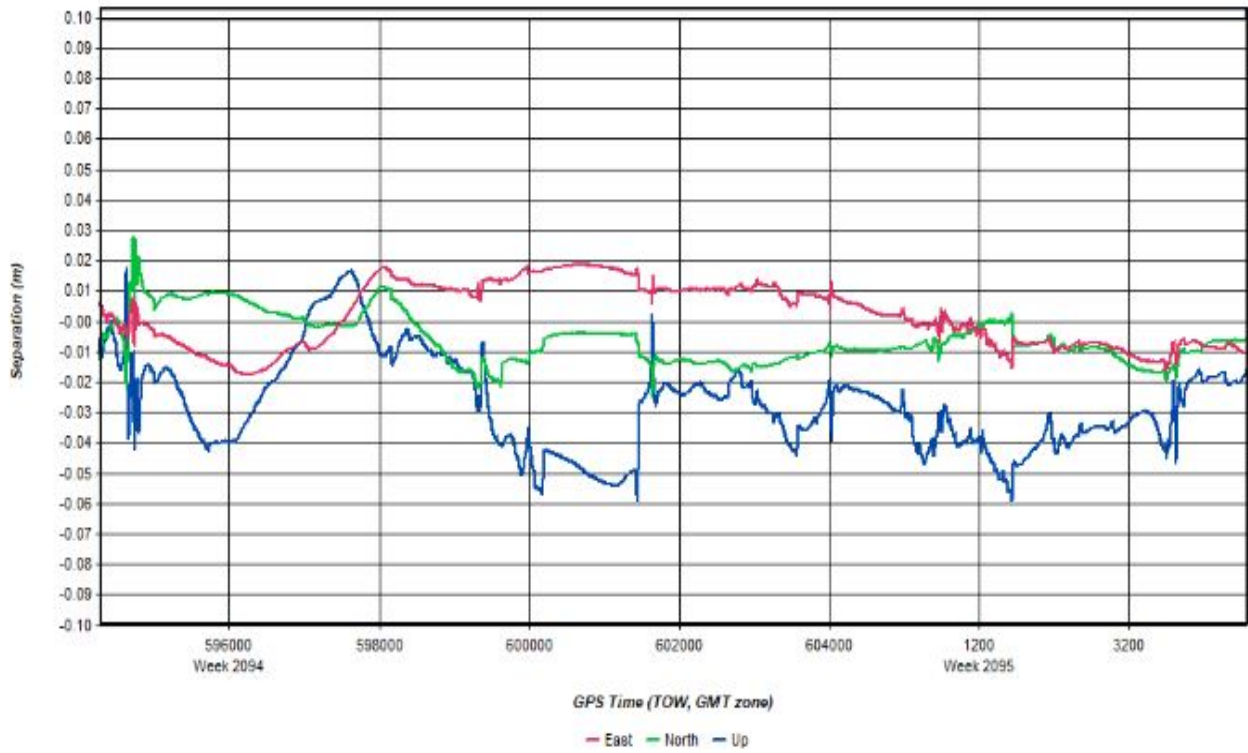
GNSS Quality Factor



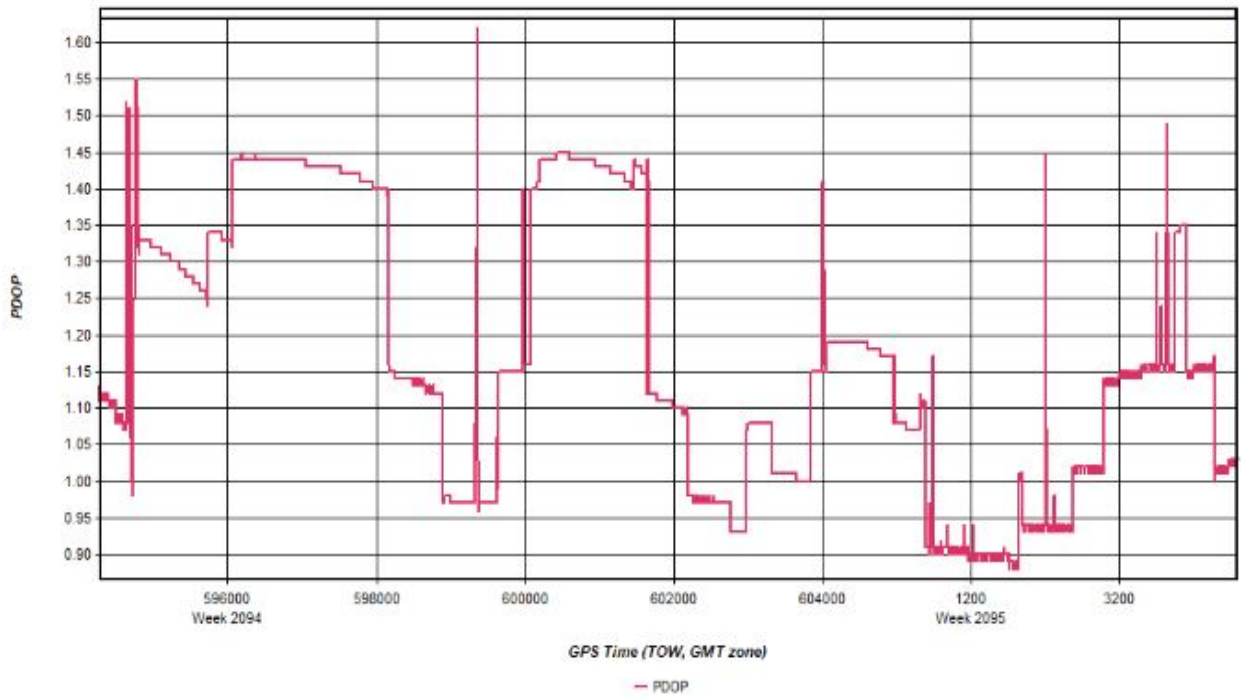
Number of Satellites



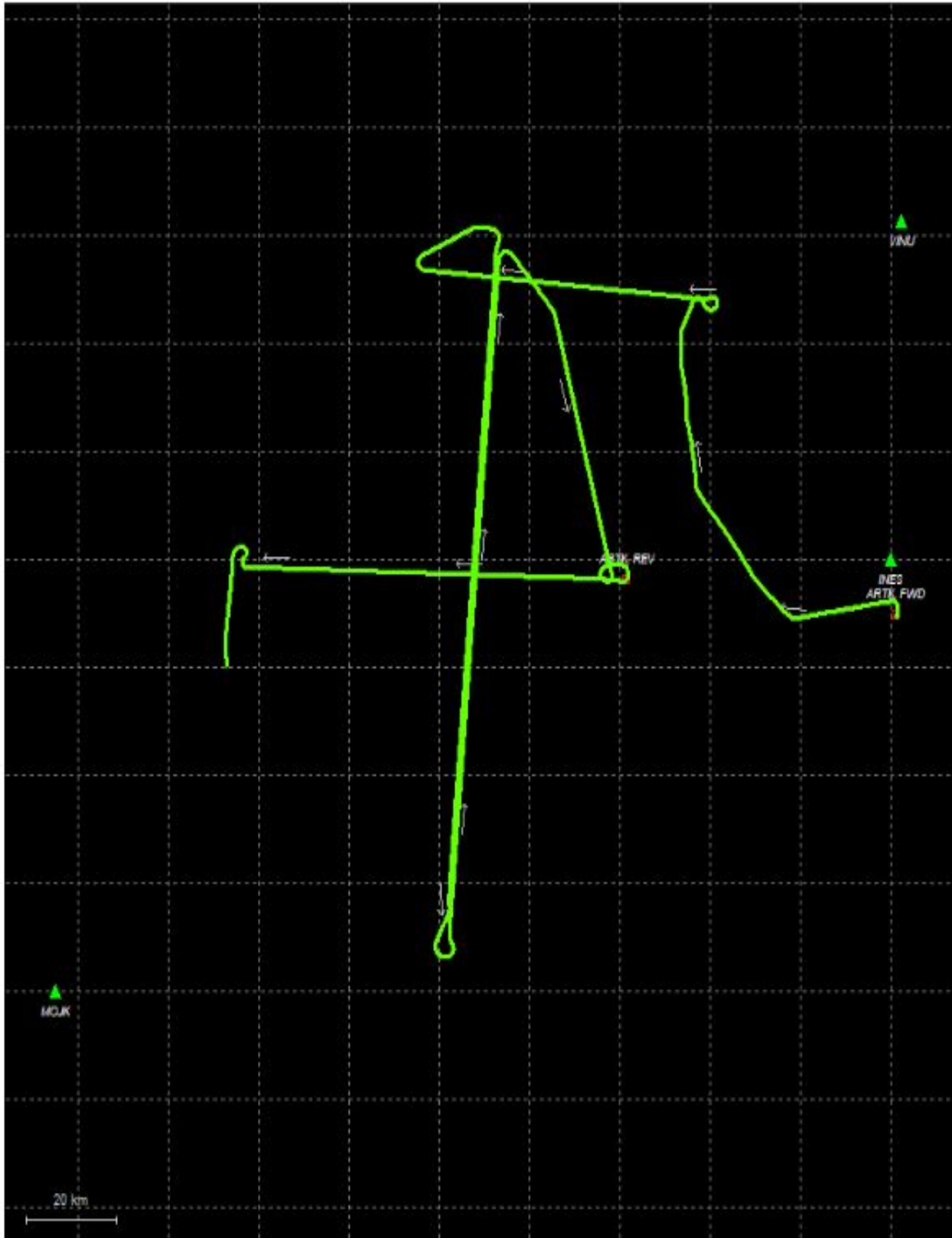
Forward/Reverse Separation



PDOP

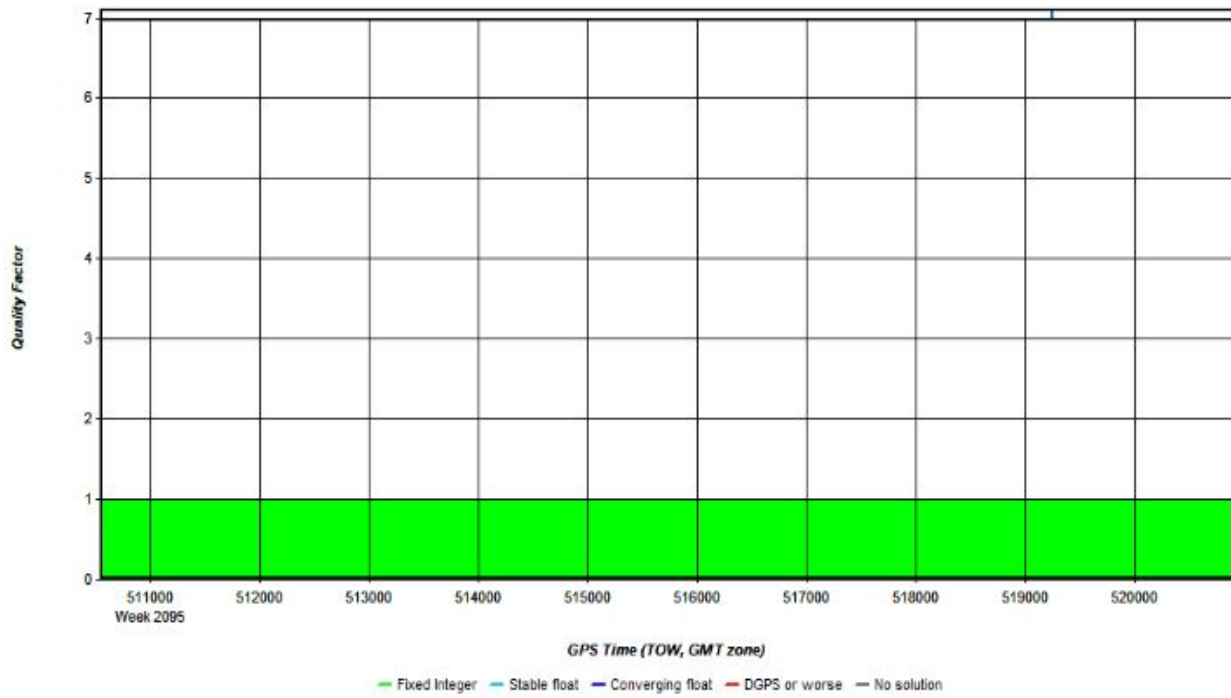


Top View

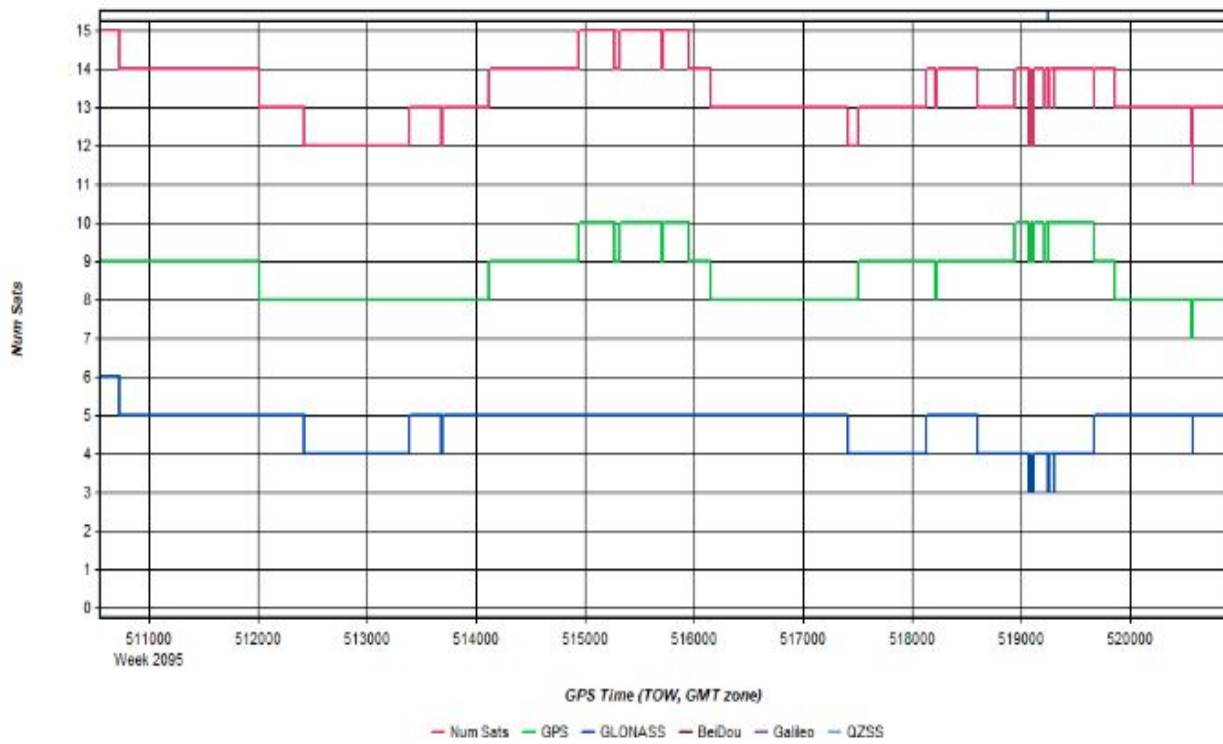


GNSS QC

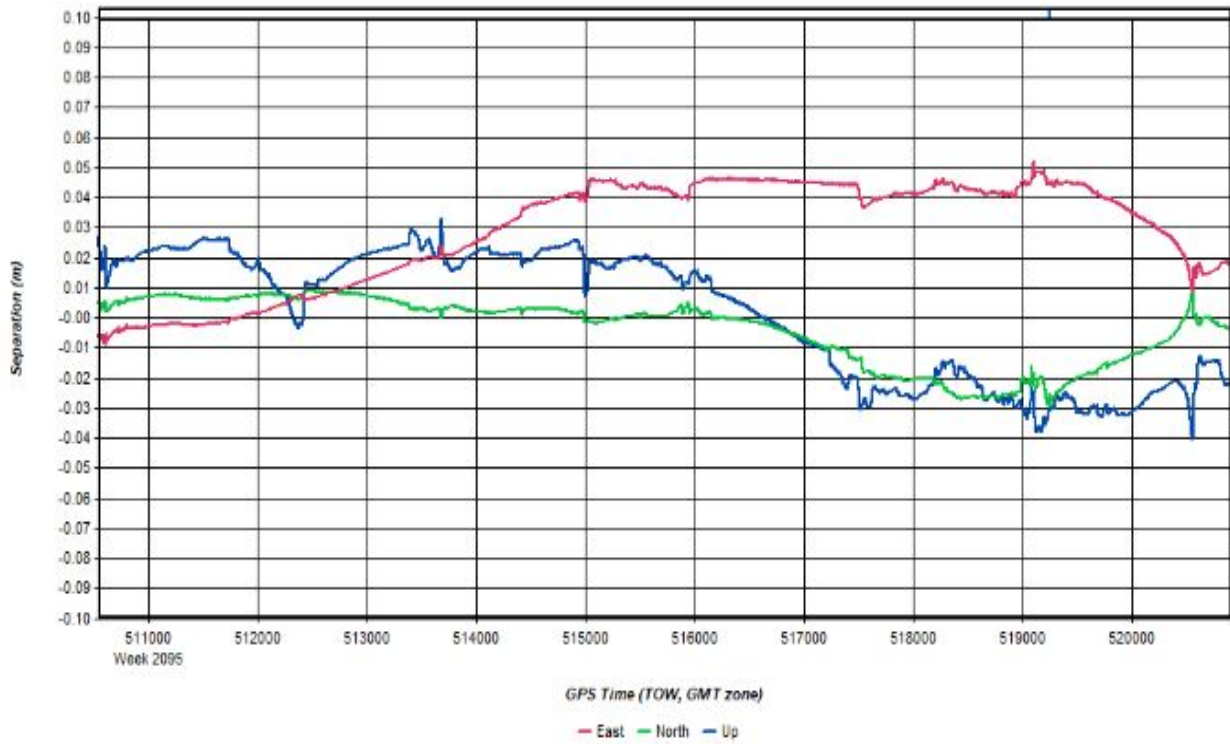
GNSS Quality Factor



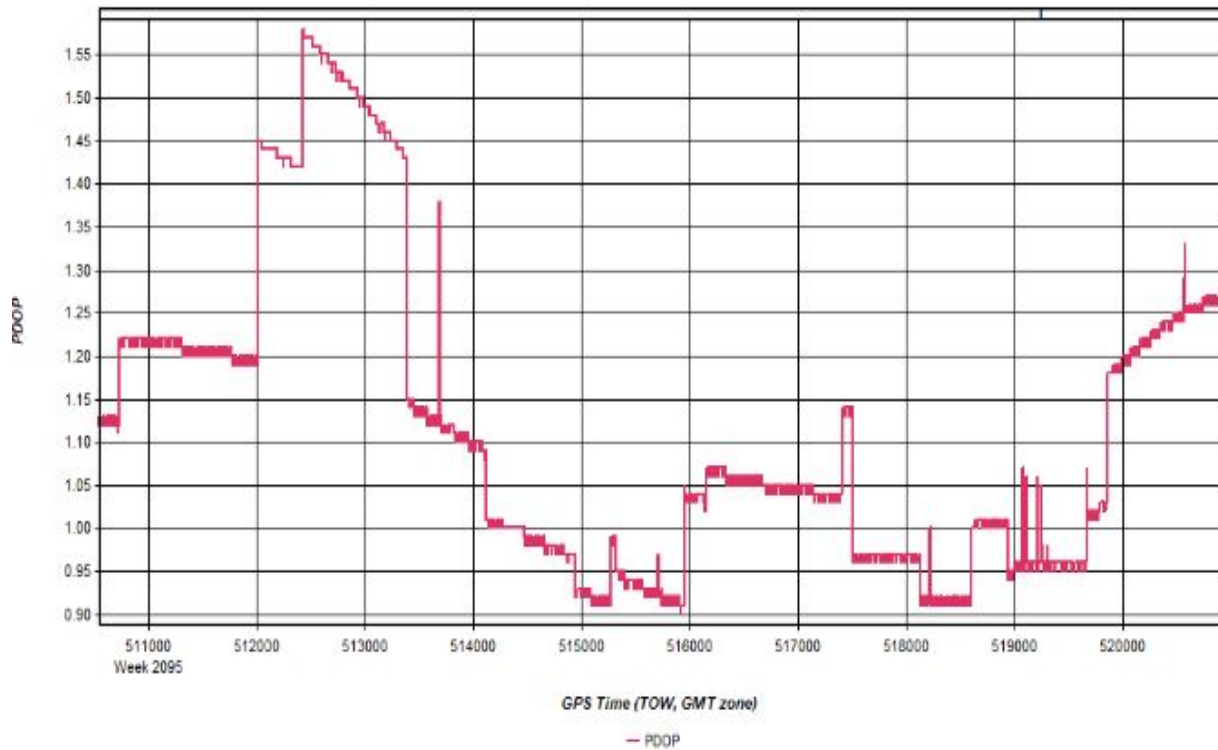
Number of Satellites



Forward/Reverse Separation

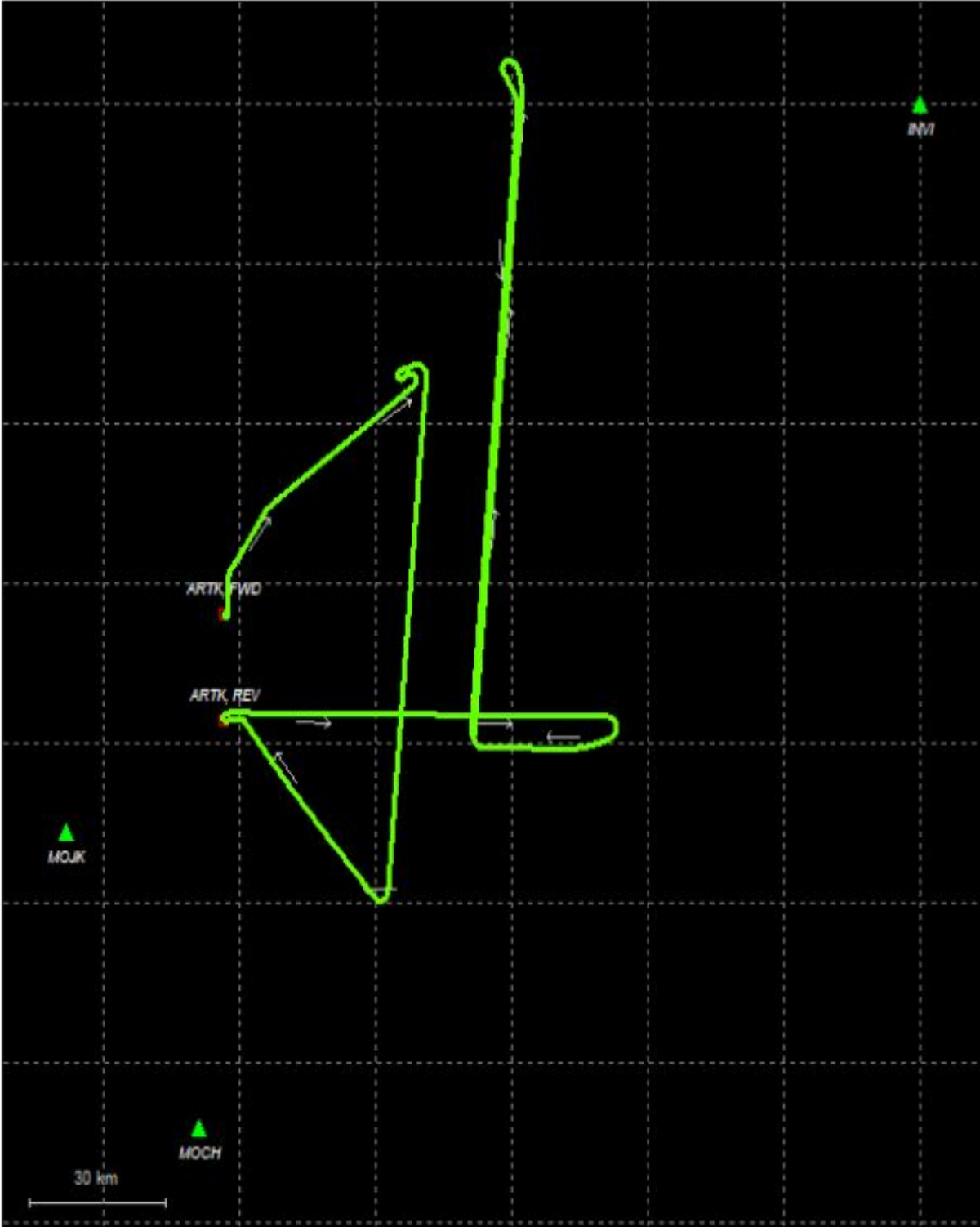


PDOP



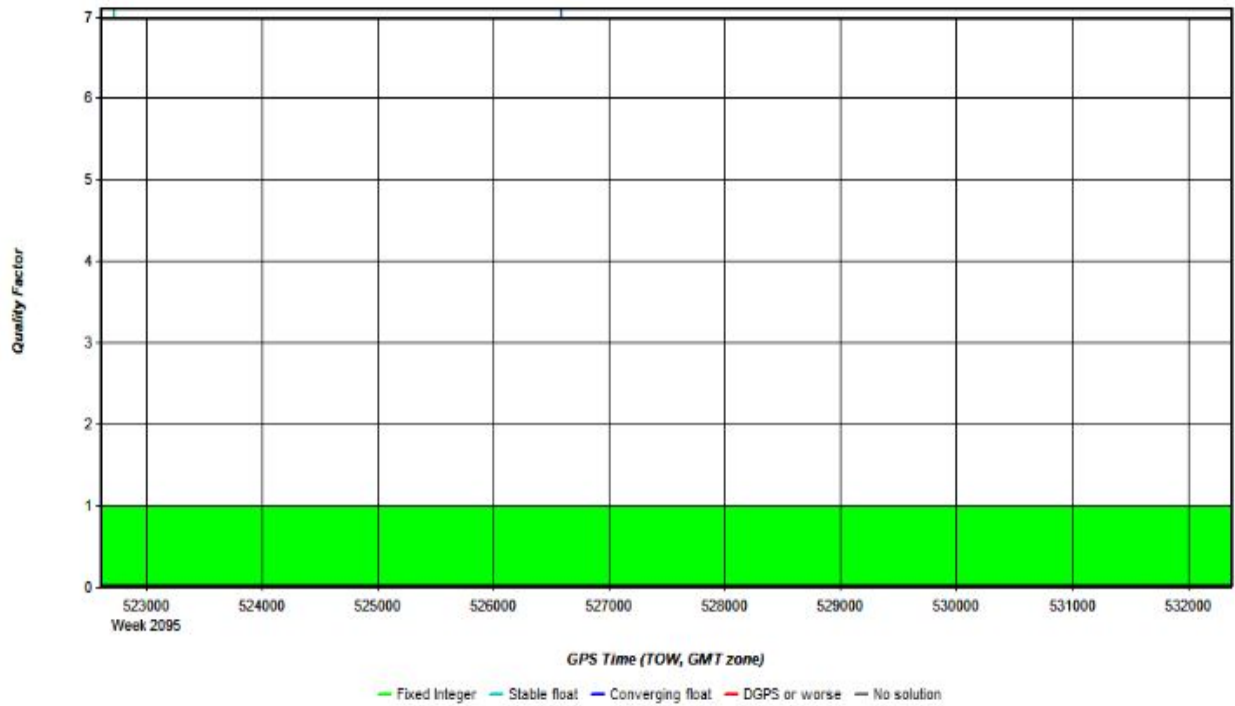
20200307_010807_QC Report.docx QC Report - 7/23/2021 13:20:27
Smoothed Trajectory Information

Top View

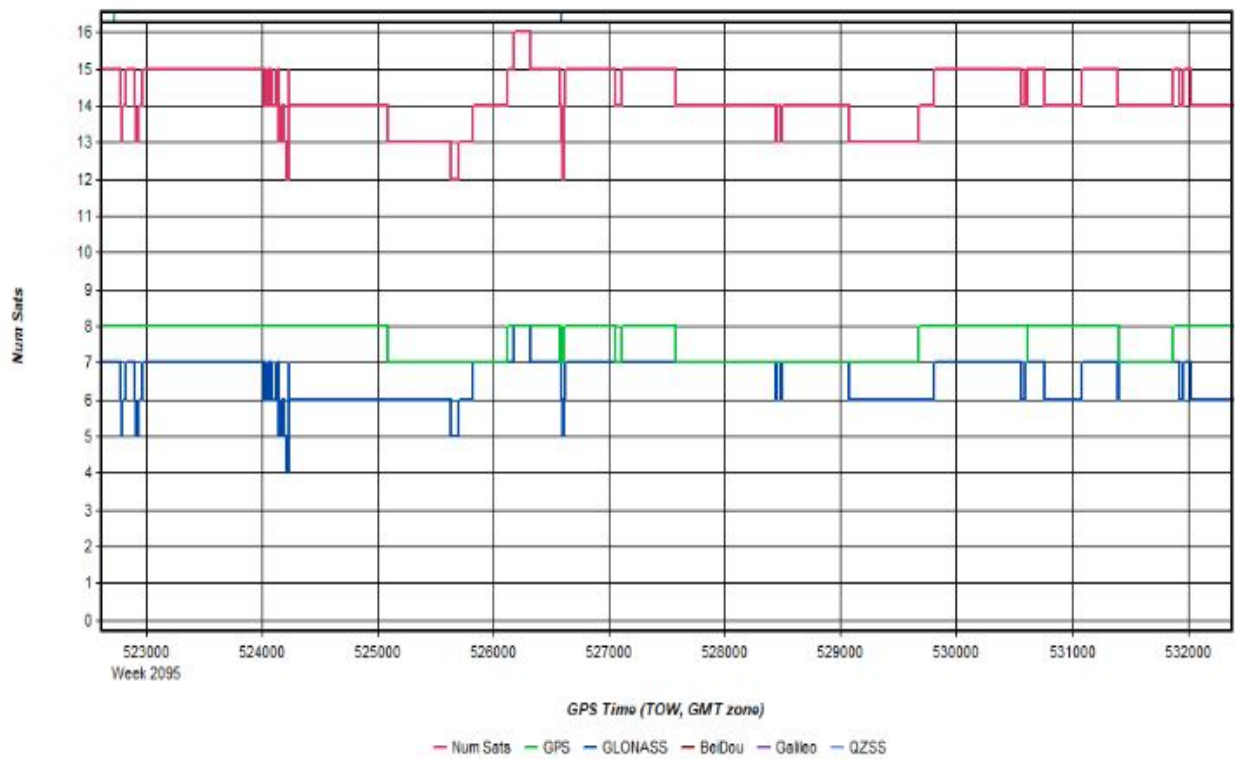


GNSS QC

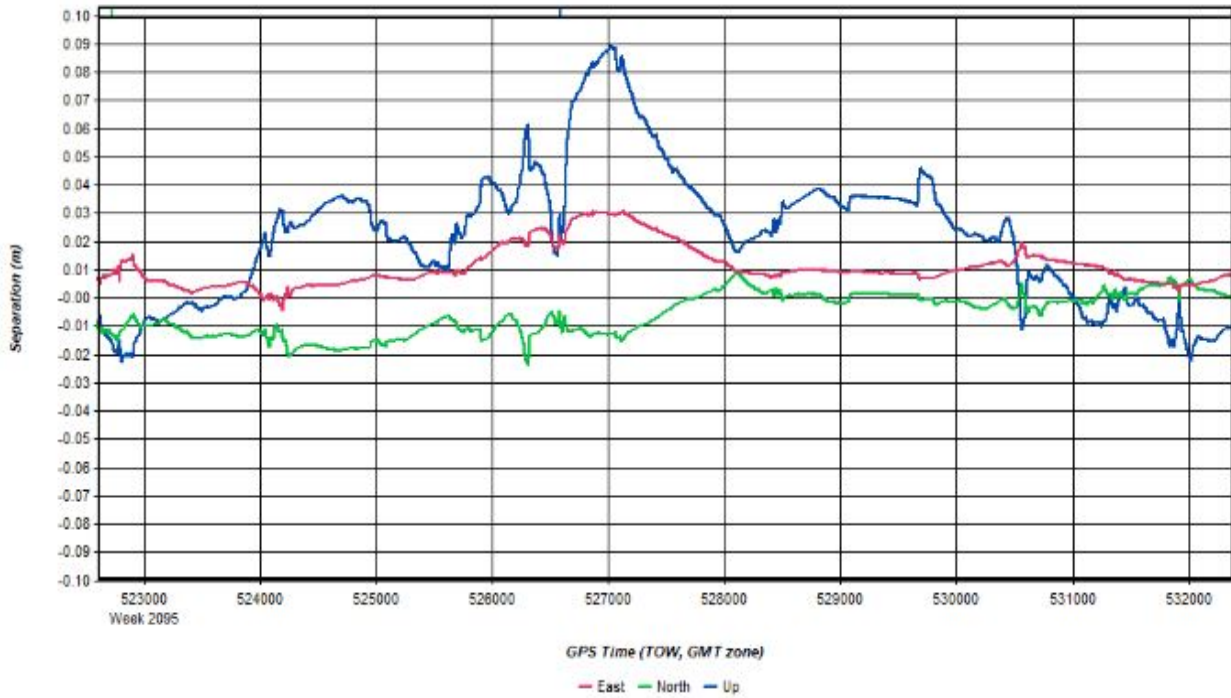
GNSS Quality Factor



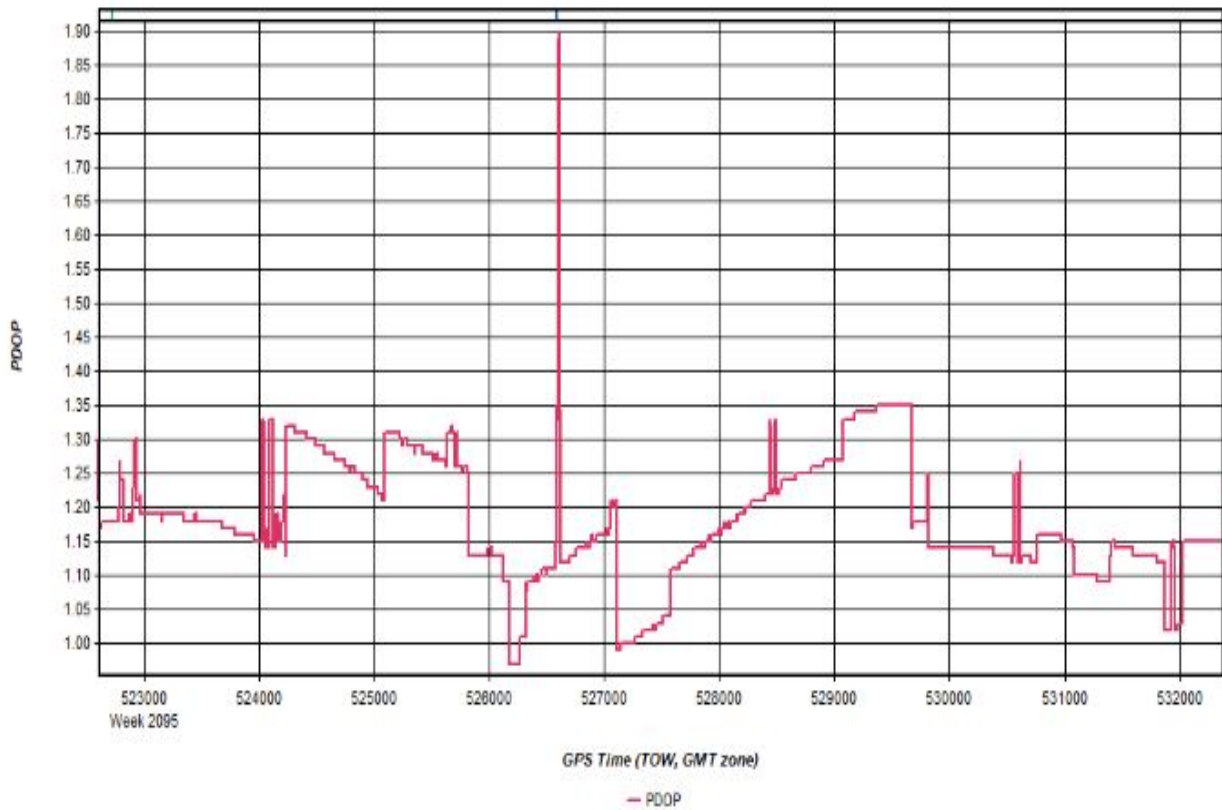
Number of Satellites



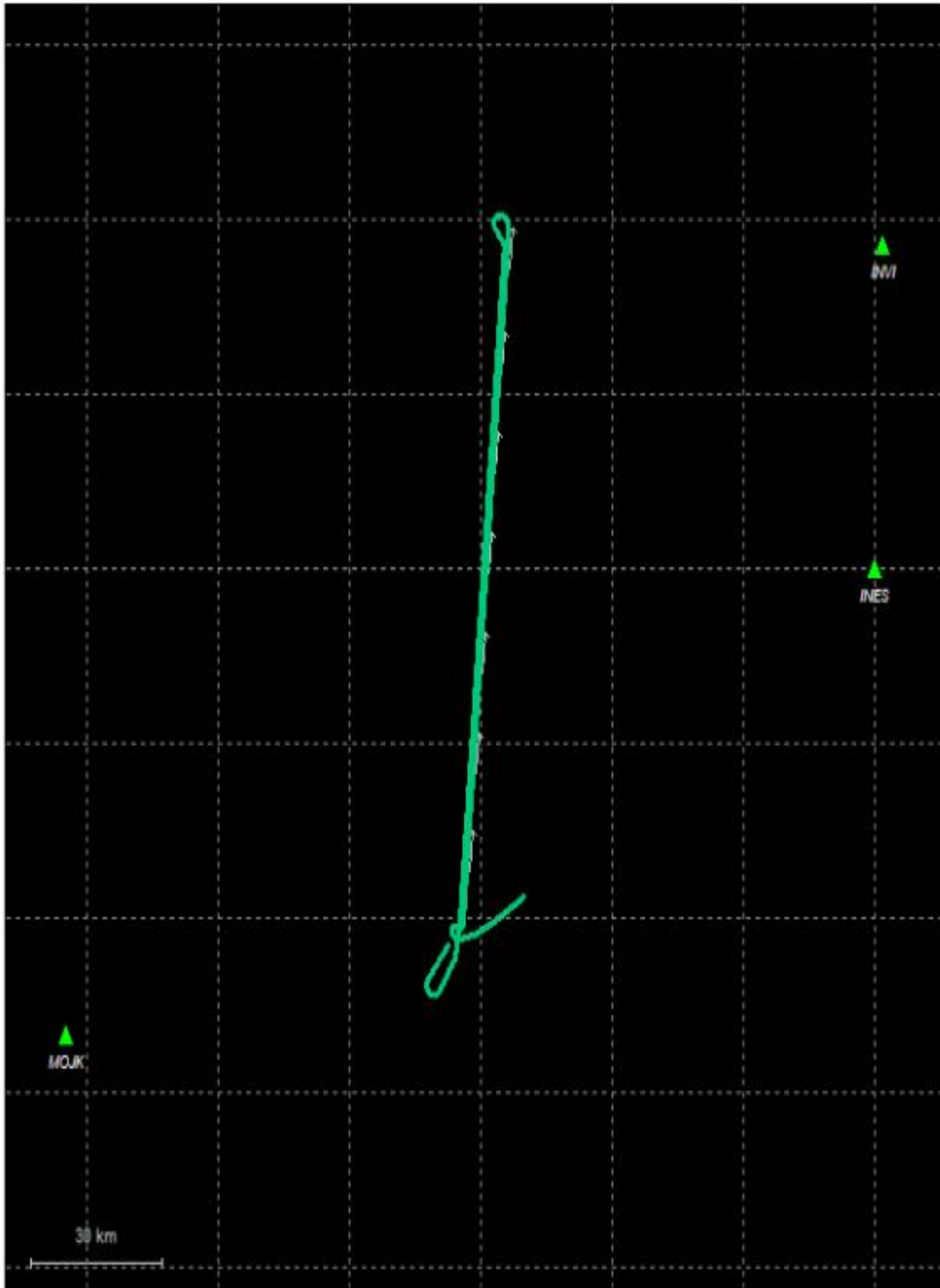
Forward/Reverse Separation



PDOP

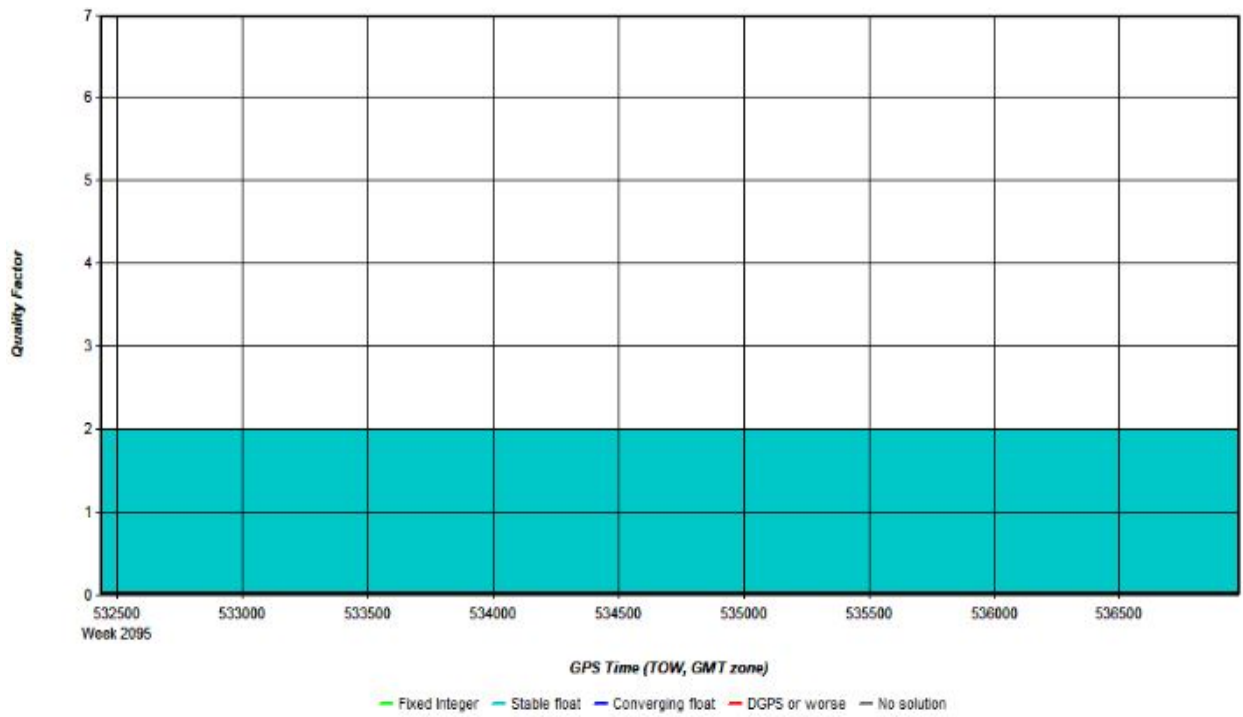


Top View

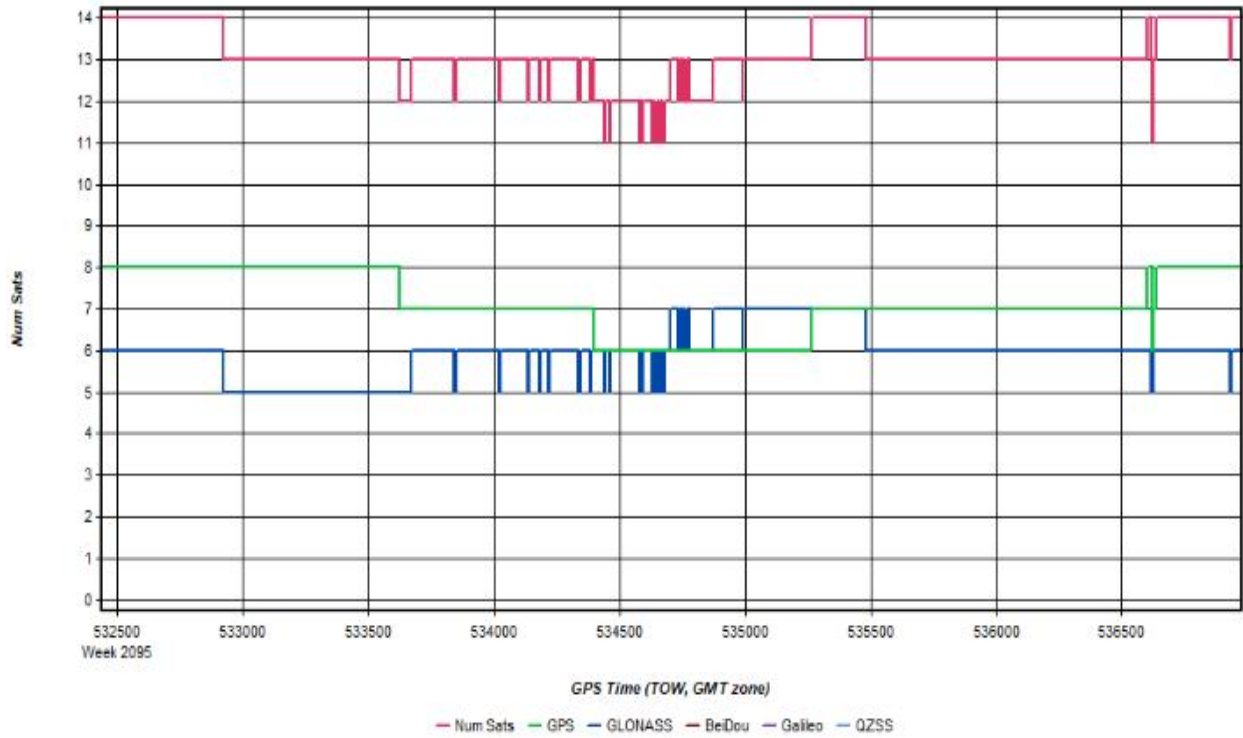


GNSS QC

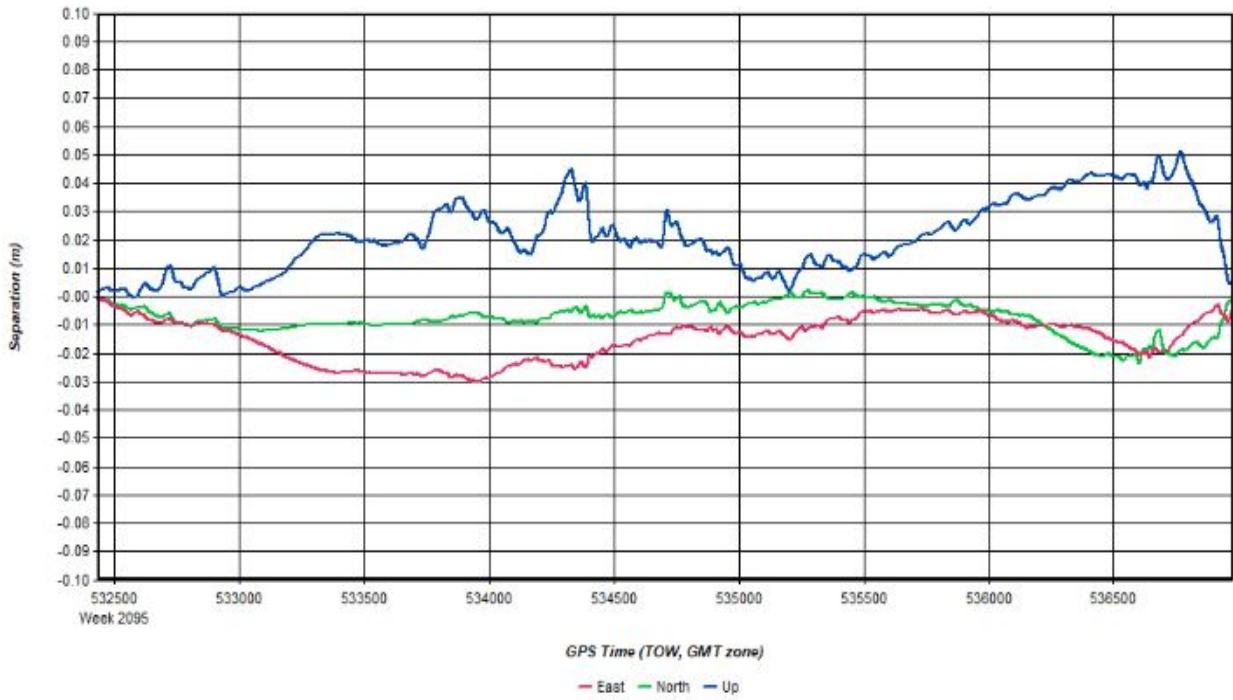
GNSS Quality Factor



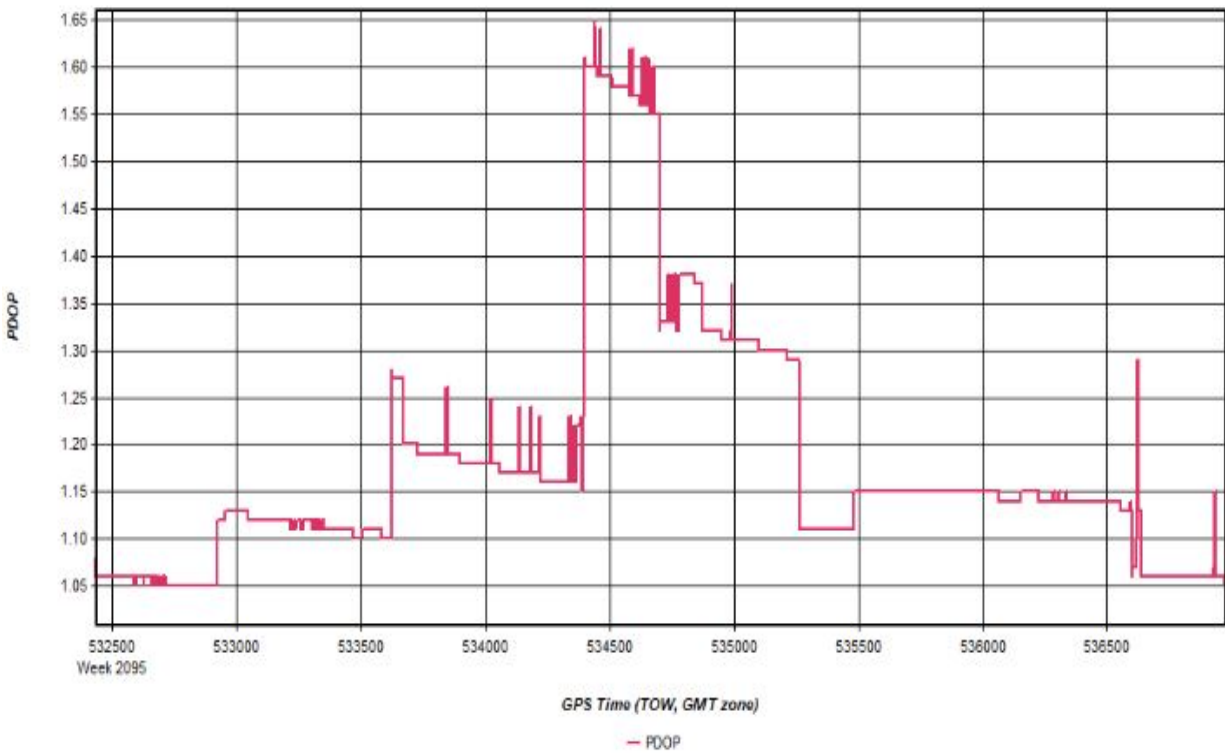
Number of Satellites



Forward/Reverse Separation



PDOP

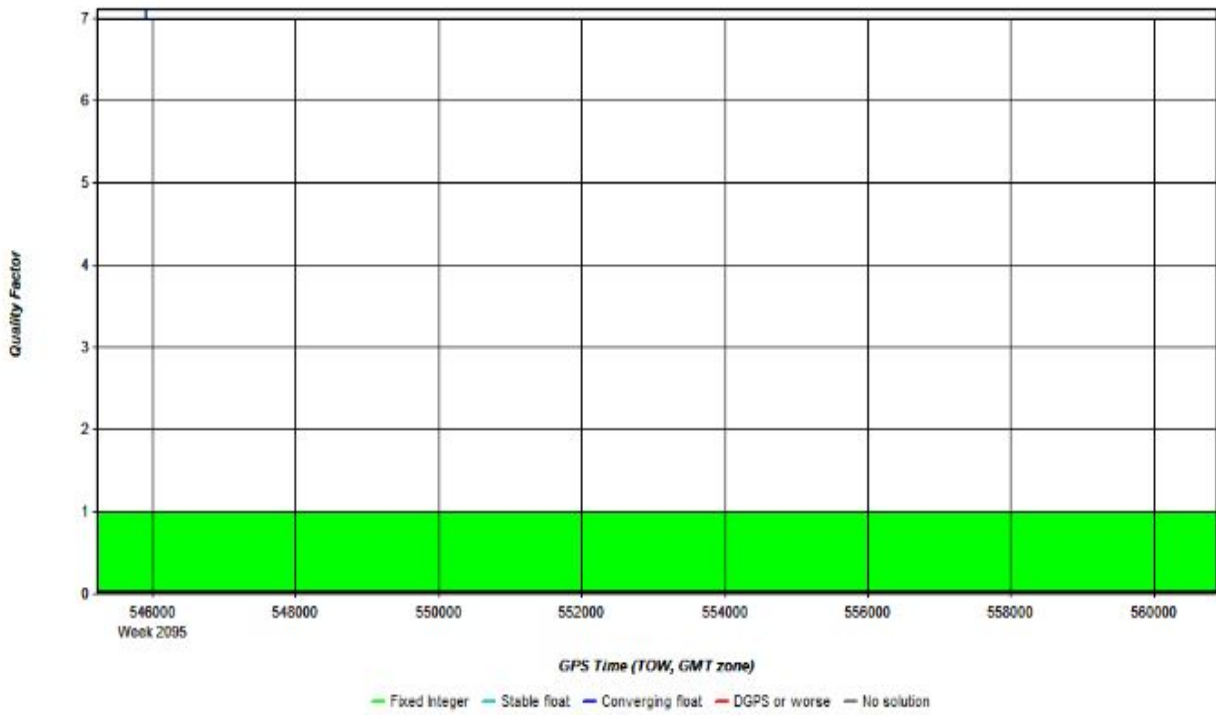


Top View

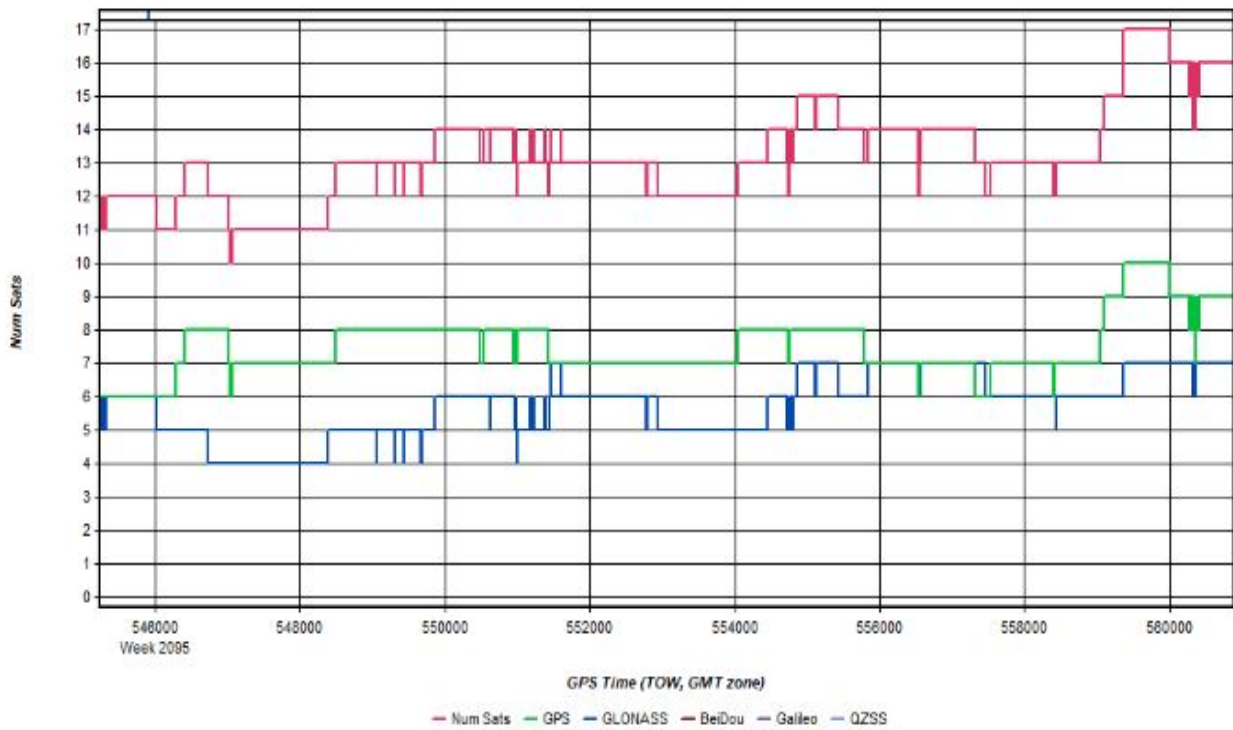


GNSS QC

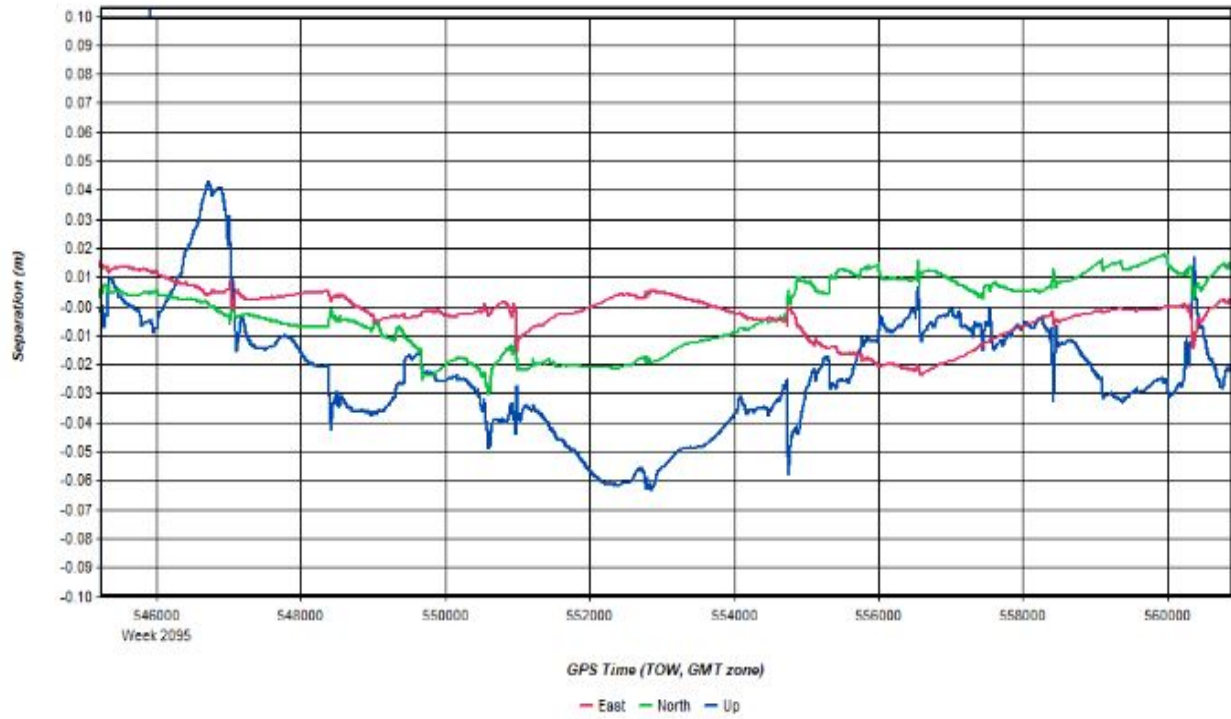
GNSS Quality Factor



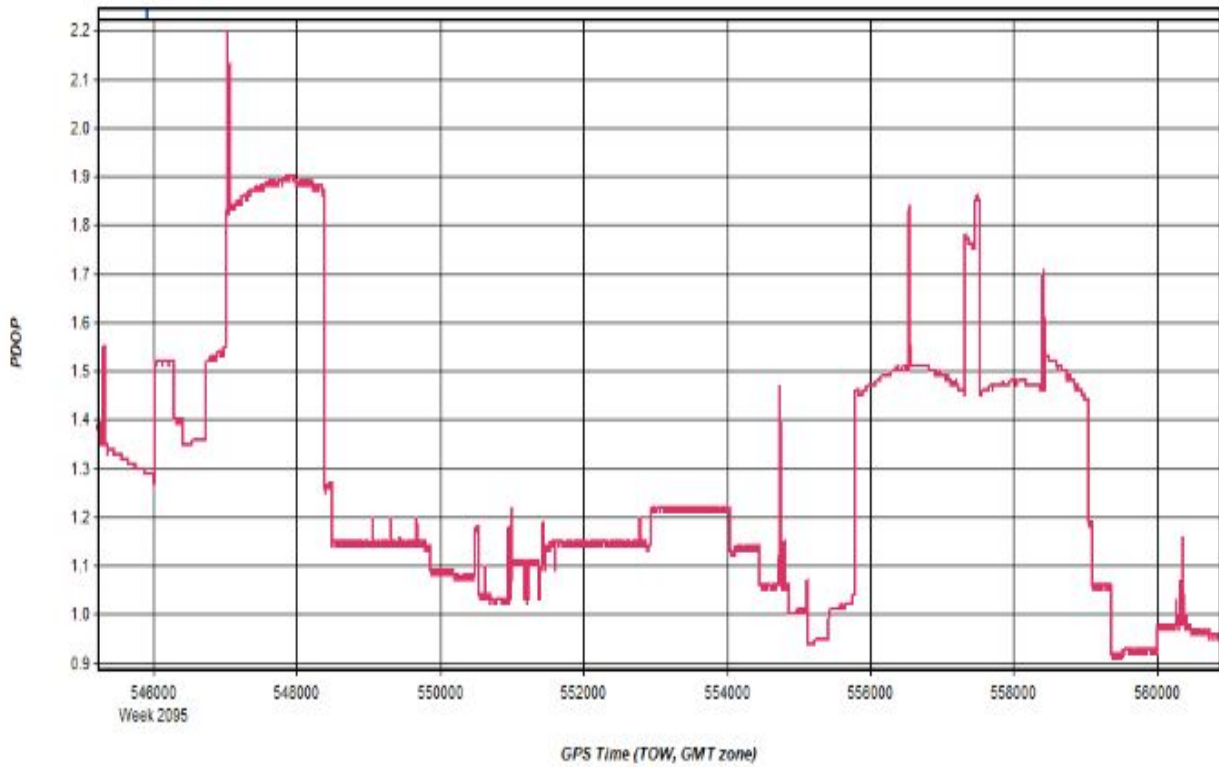
Number of Satellites



Forward/Reverse Separation



PDOP



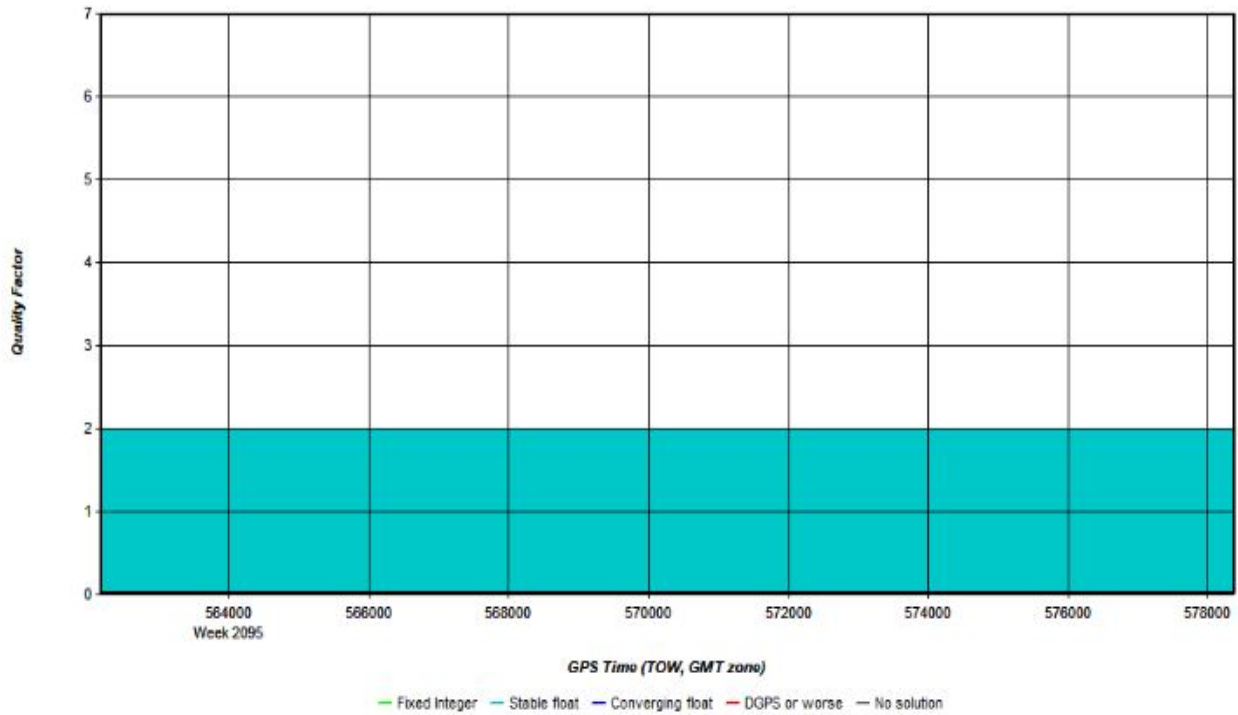
Smoothed Trajectory Information

Top View

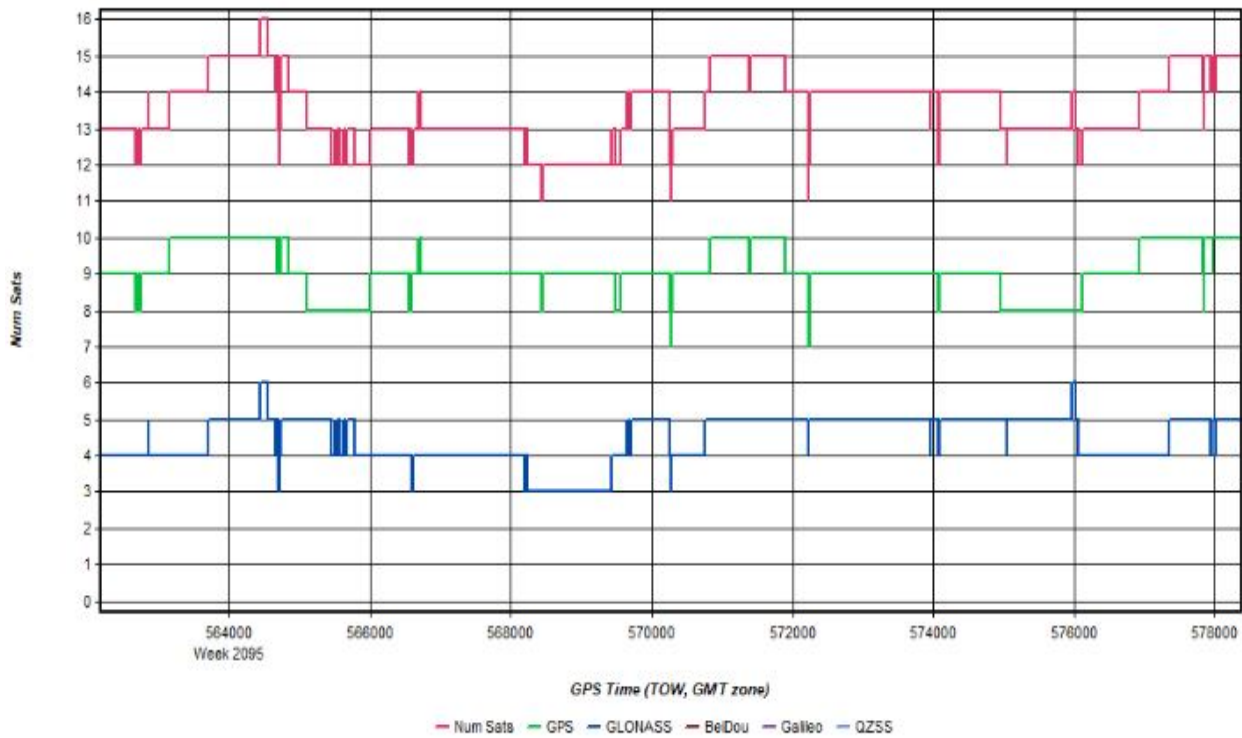


GNSS QC

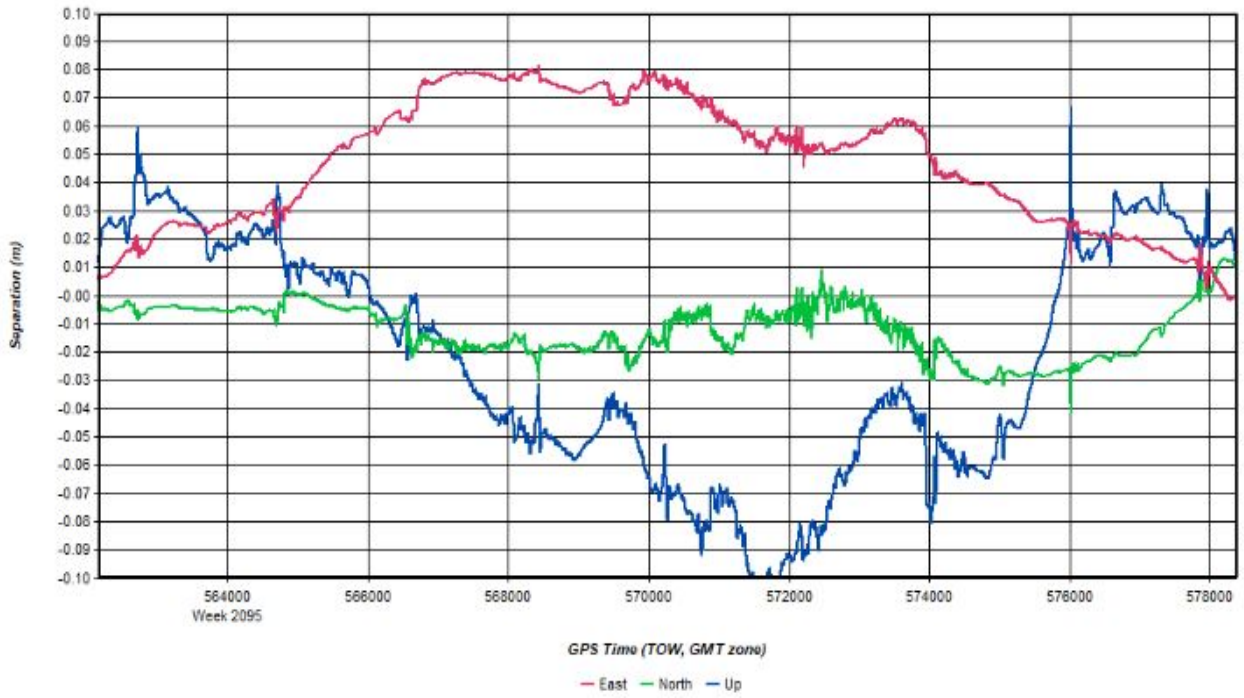
GNSS Quality Factor



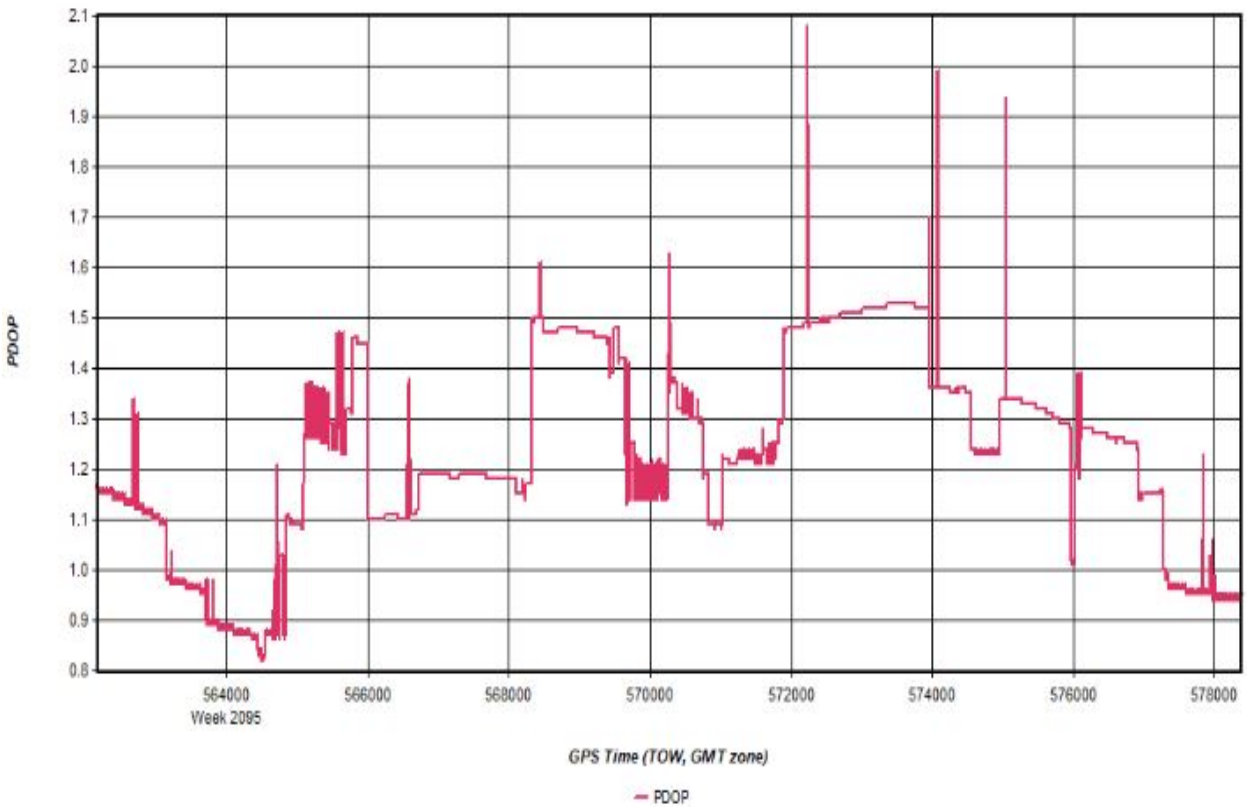
Number of Satellites



Forward/Reverse Separation

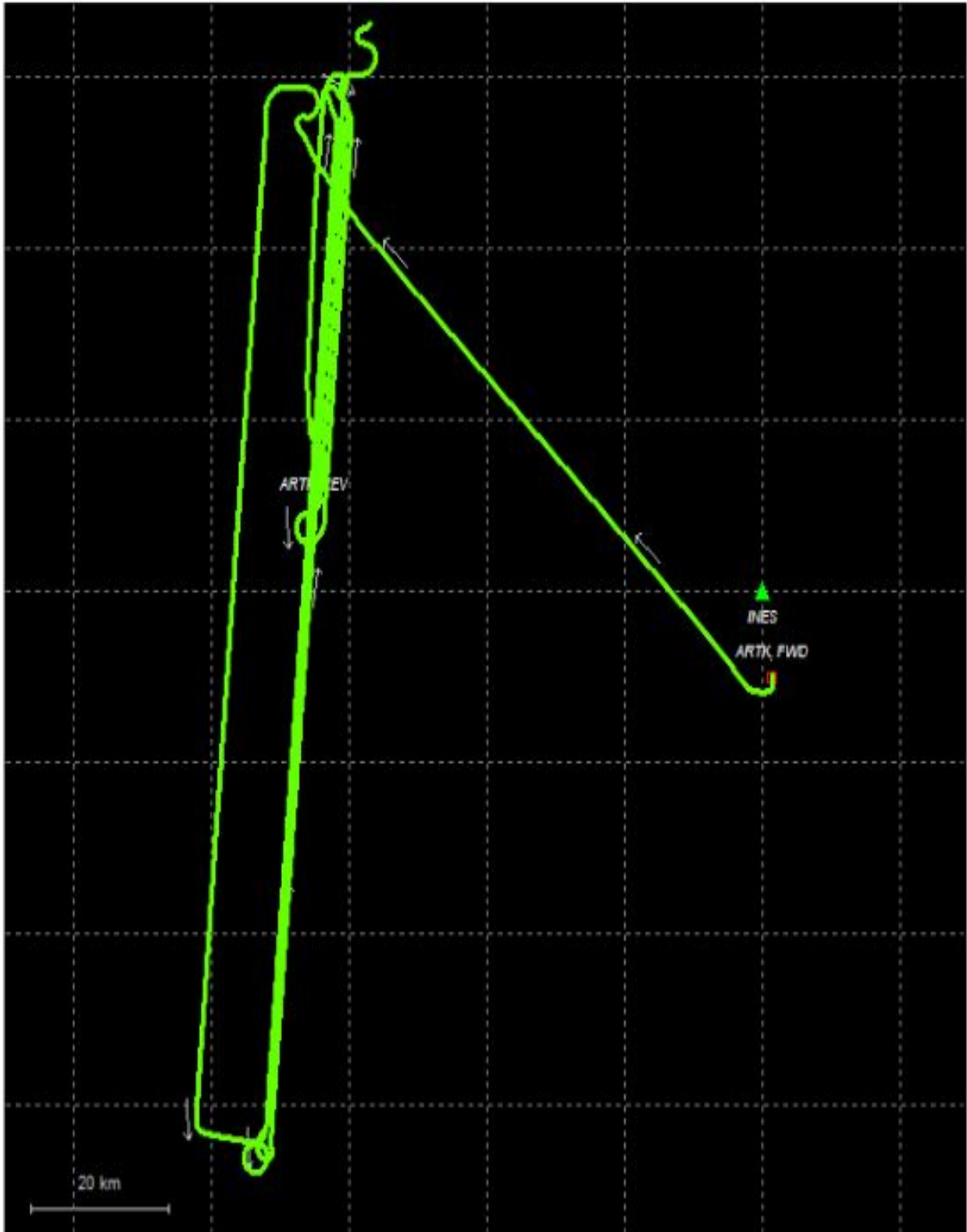


PDOP



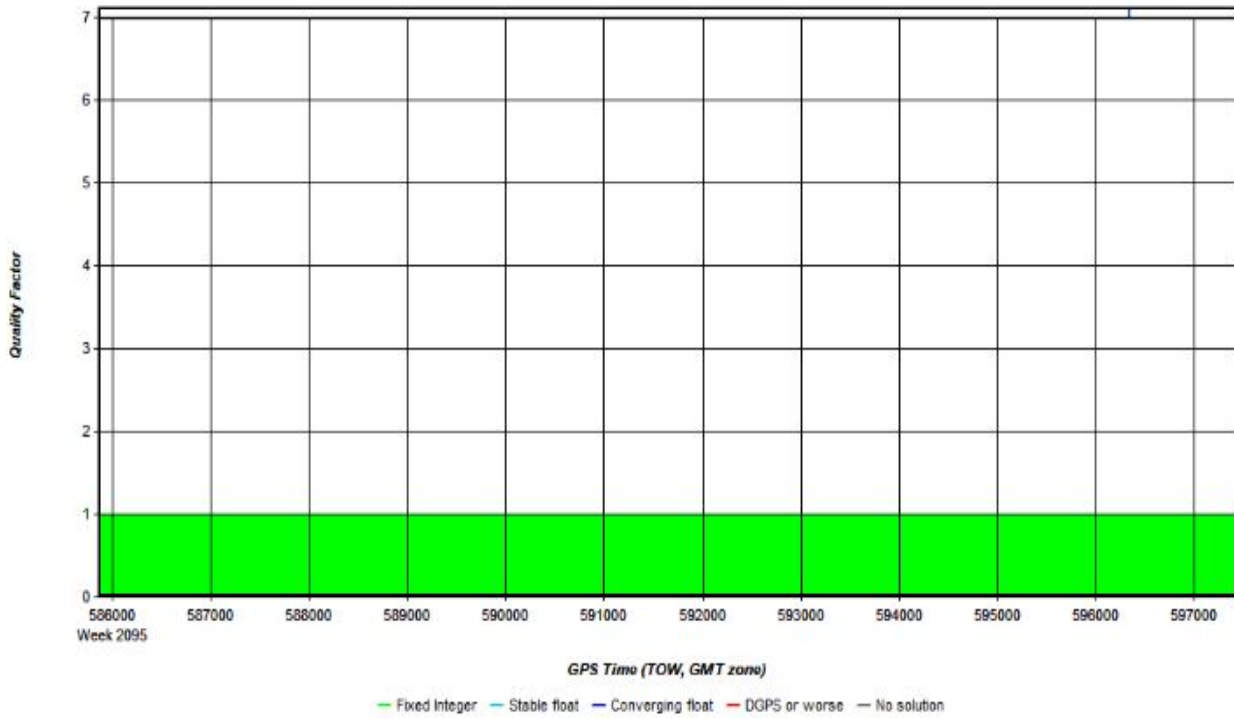
Smoothed Trajectory Information

Top View

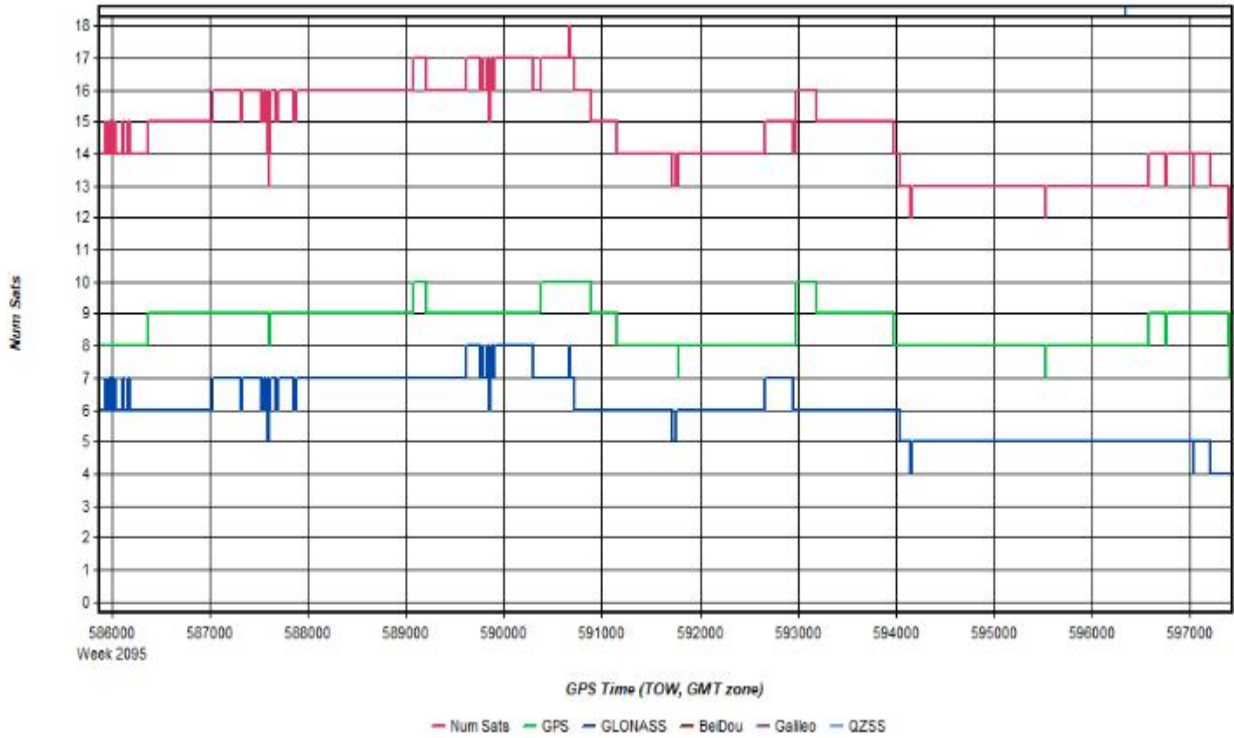


GNSS QC

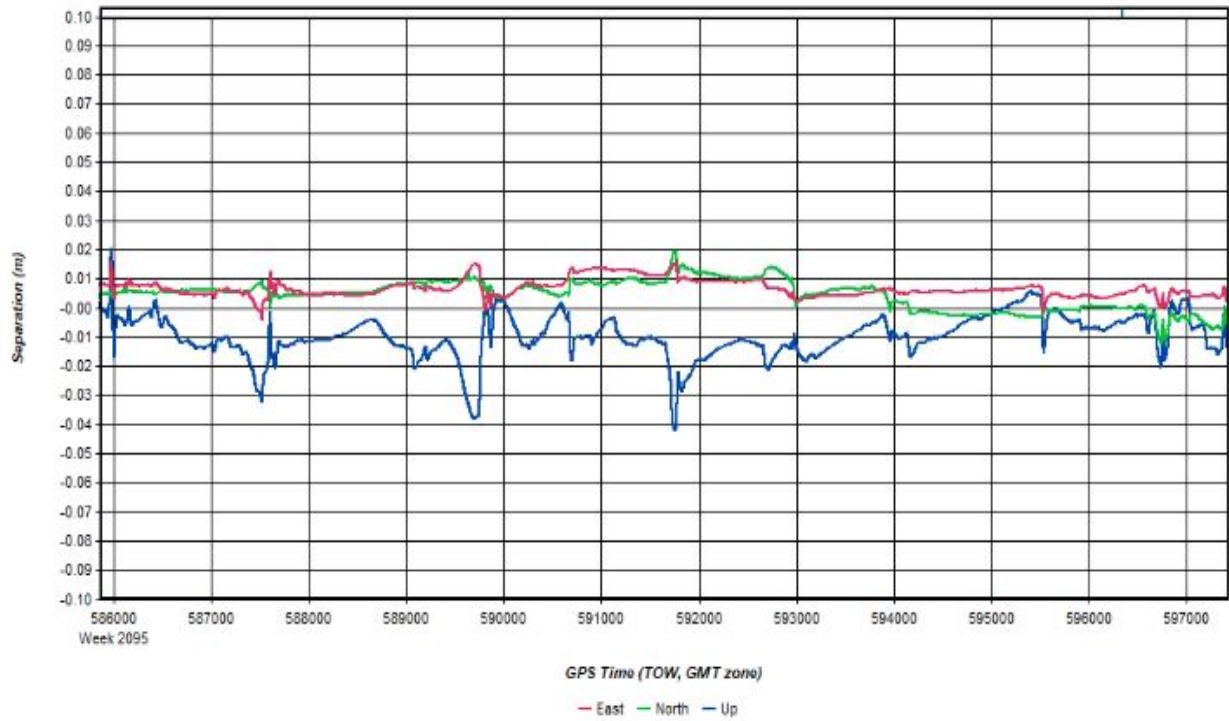
GNSS Quality Factor



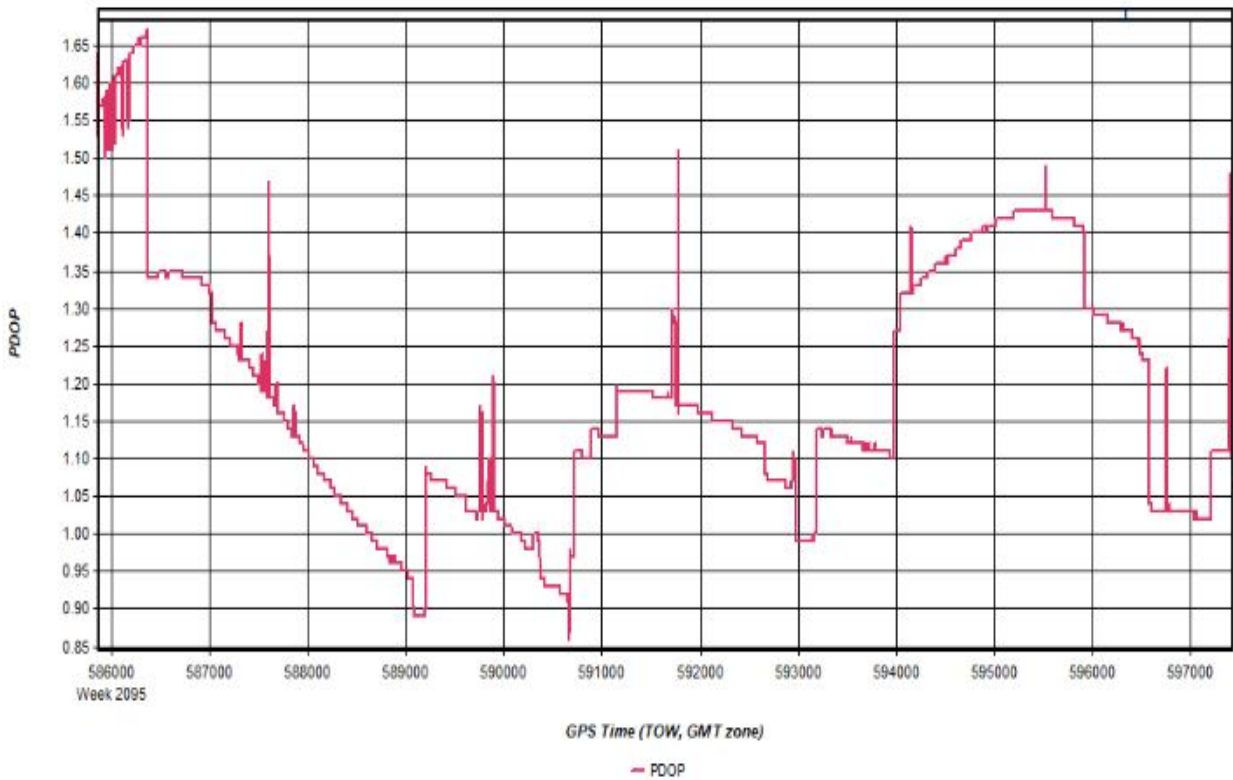
Number of Satellites



Forward/Reverse Separation



PDOP

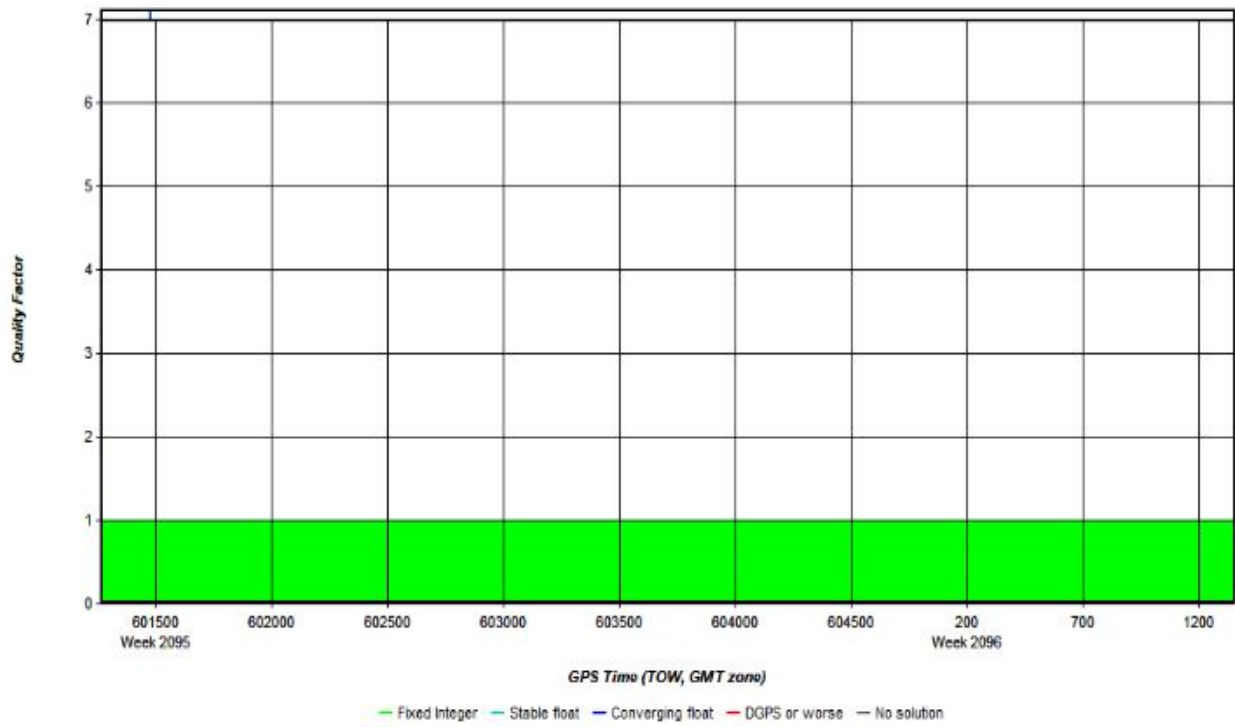


Top View

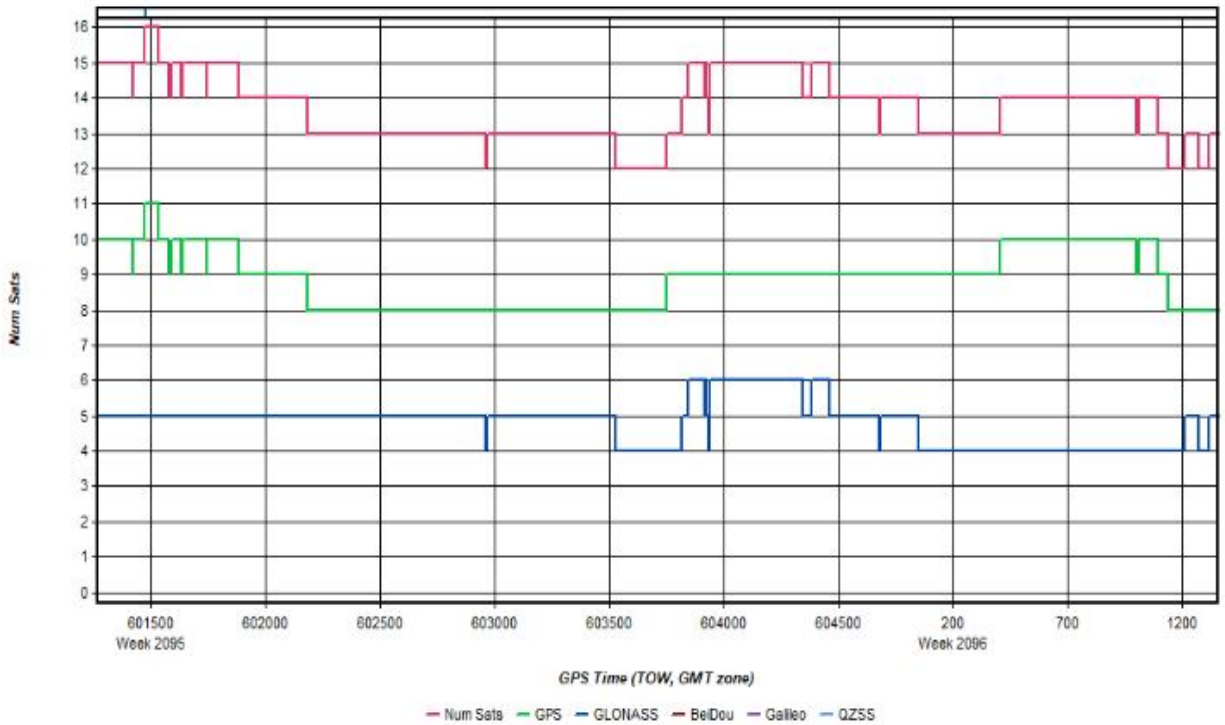


GNSS QC

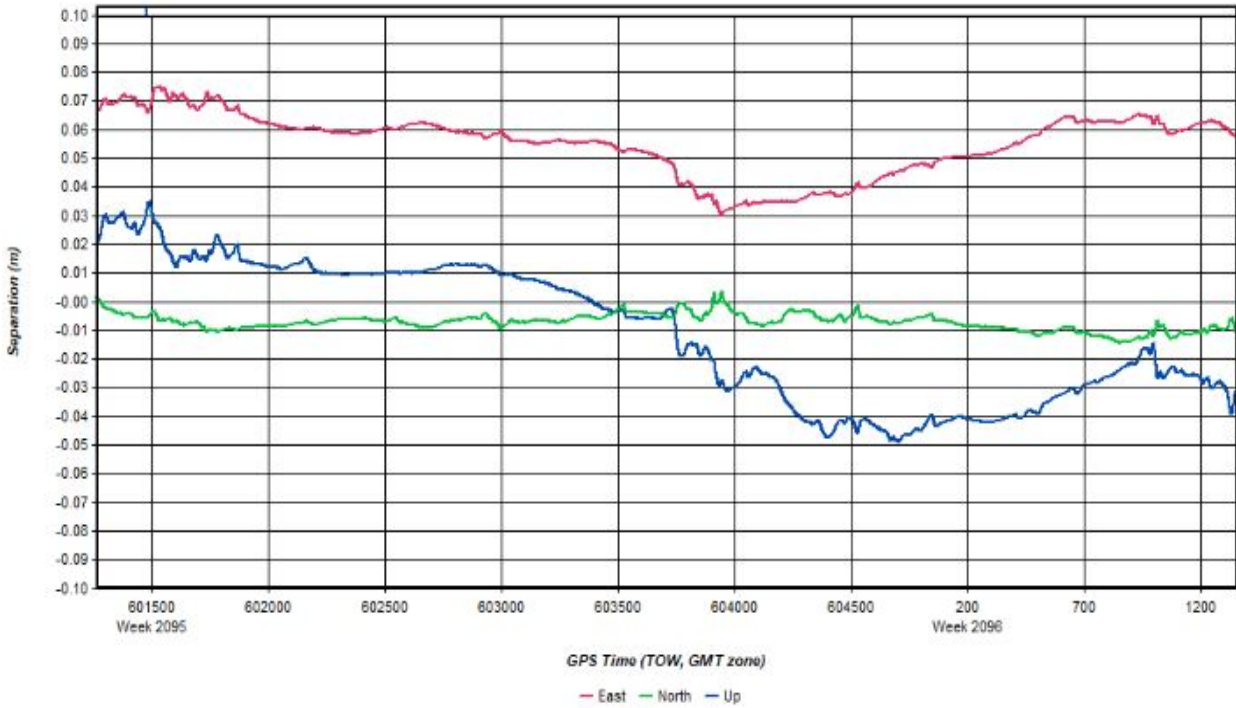
GNSS Quality Factor



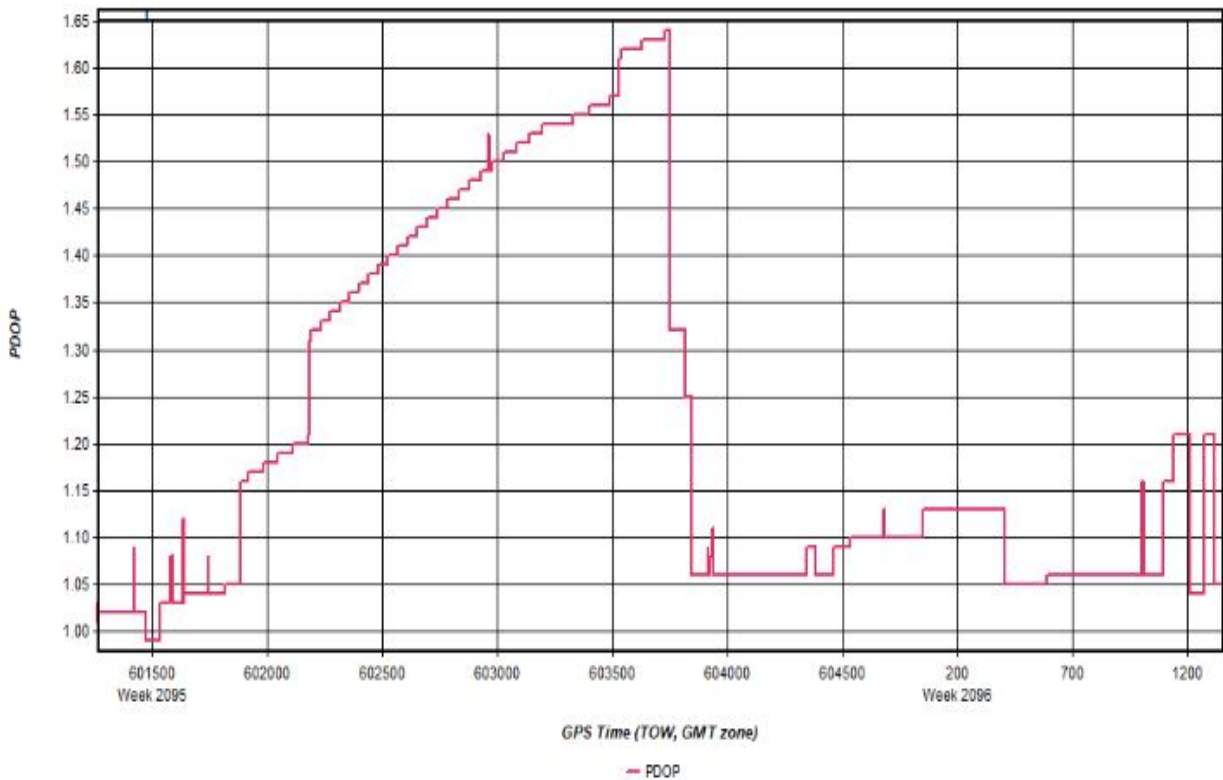
Number of Satellites



Forward/Reverse Separation



PDOP

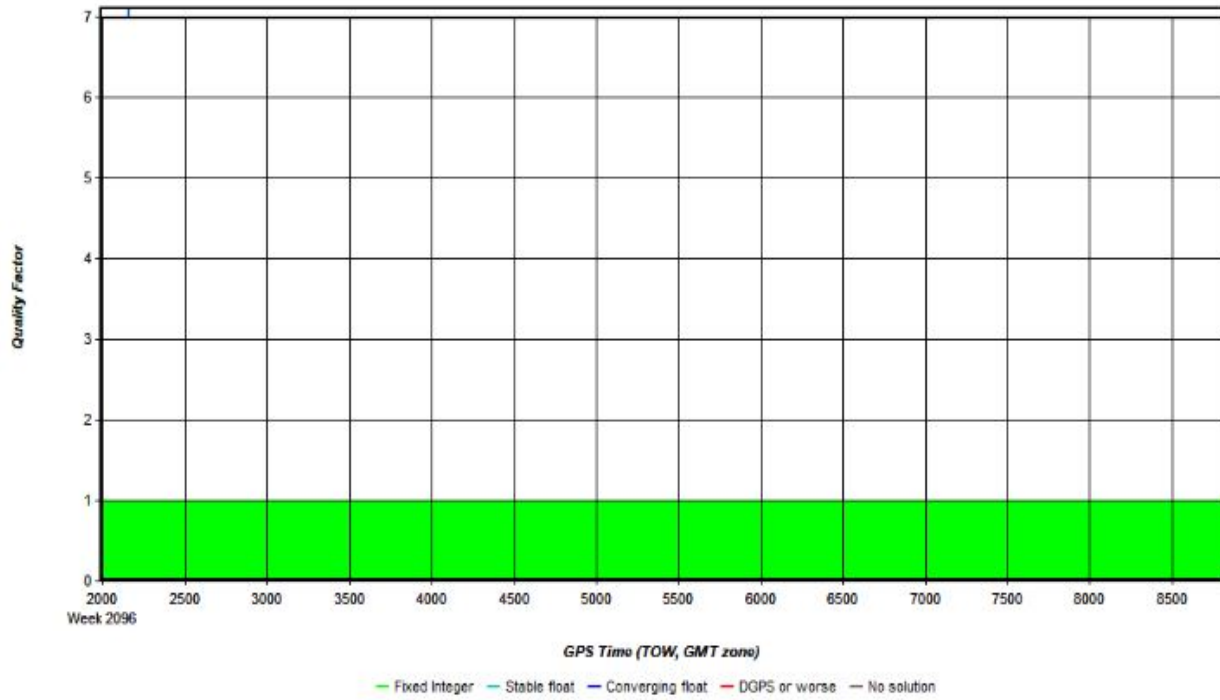


Top View

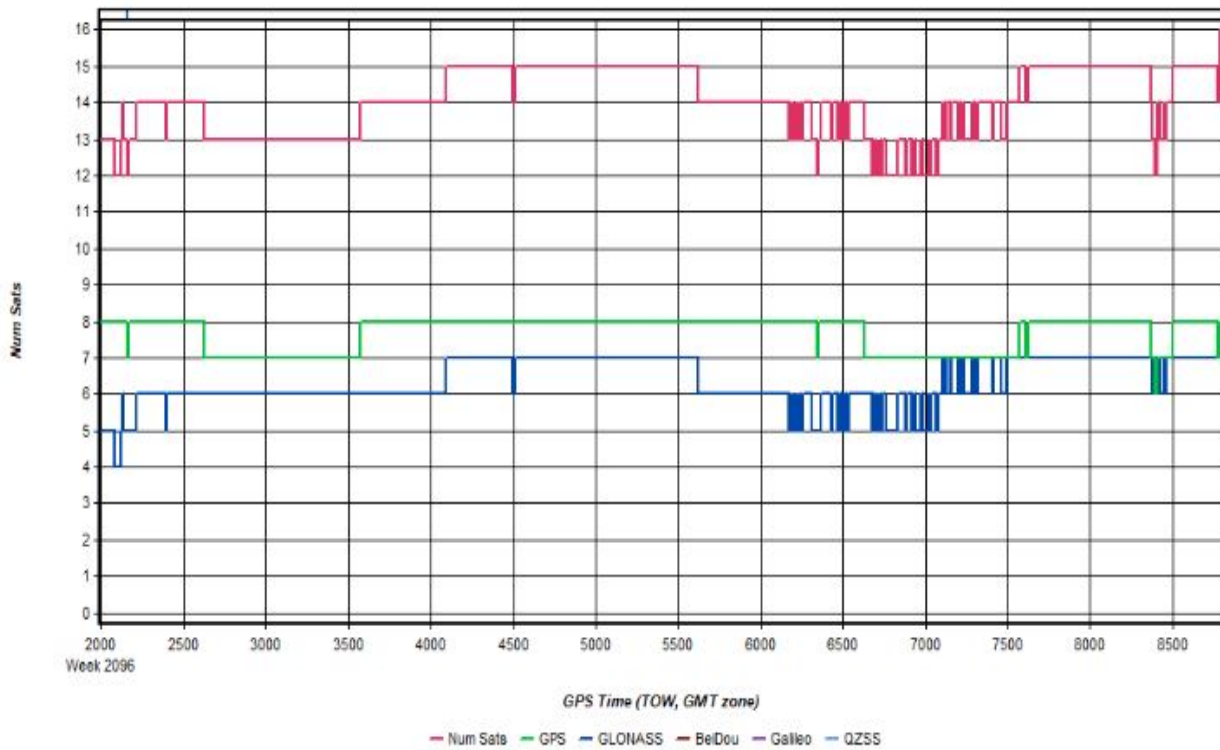


GNSS QC

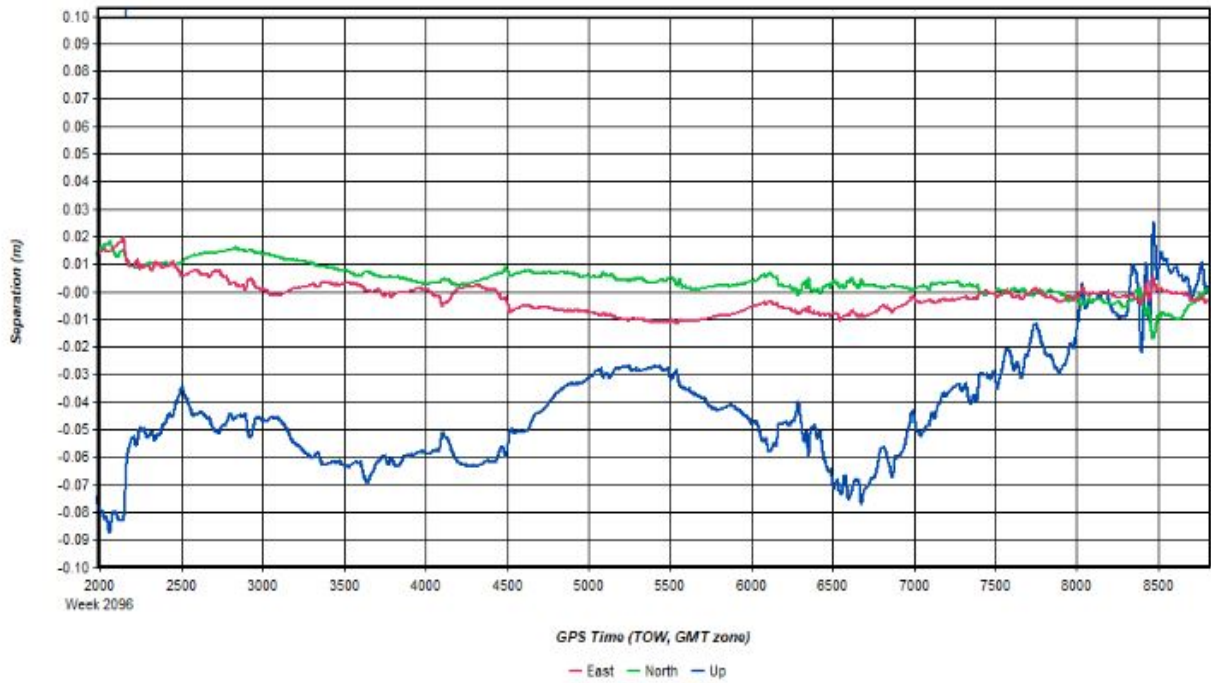
GNSS Quality Factor



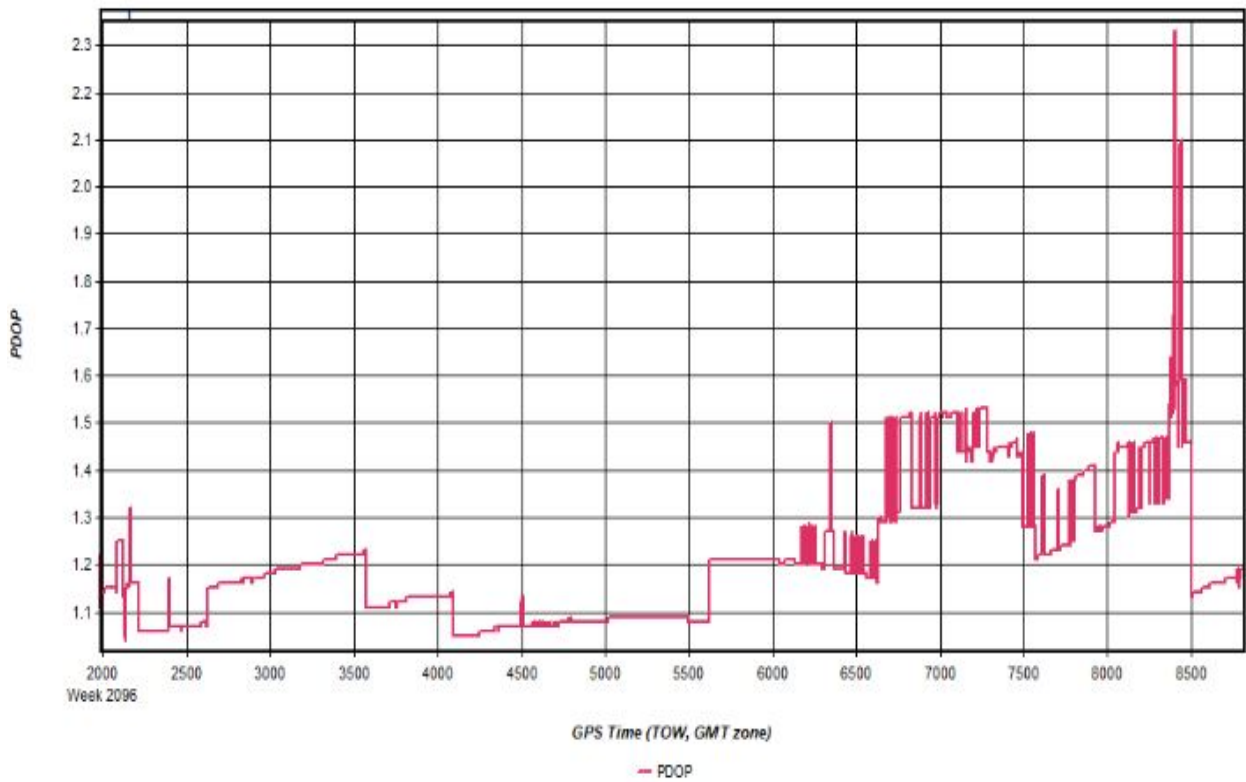
Number of Satellites



Forward/Reverse Separation



PDOP

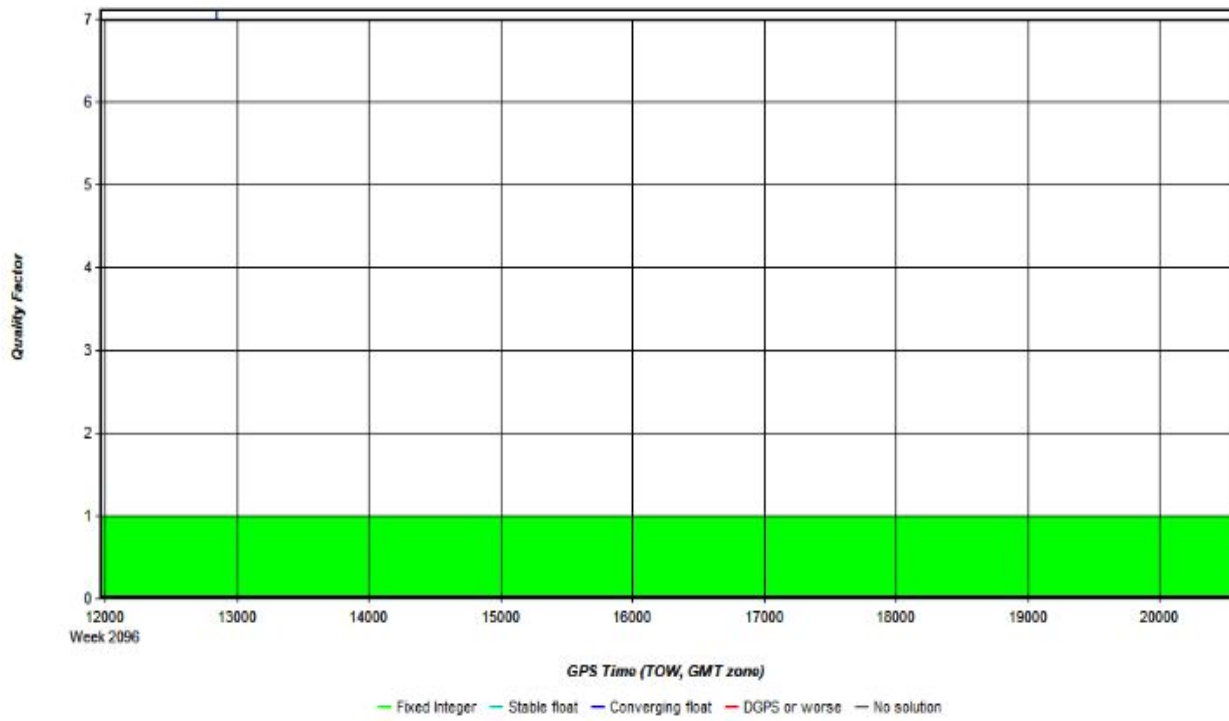


Top View

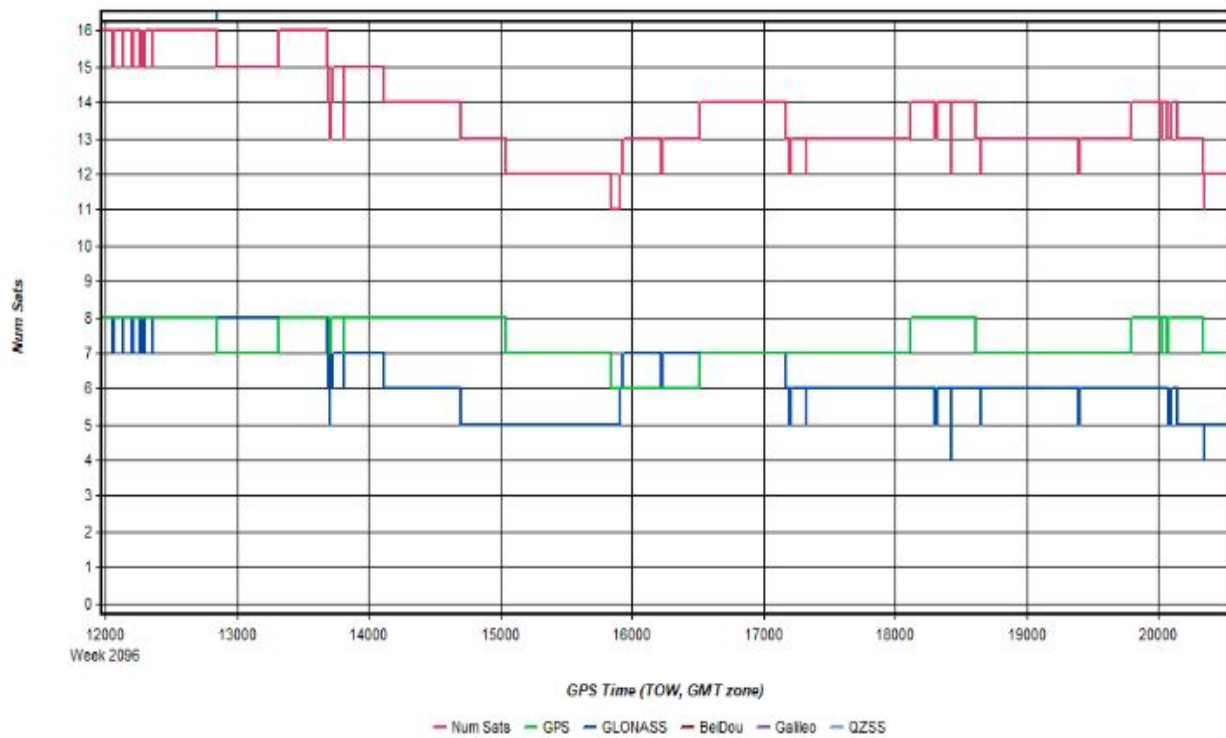


GNSS QC

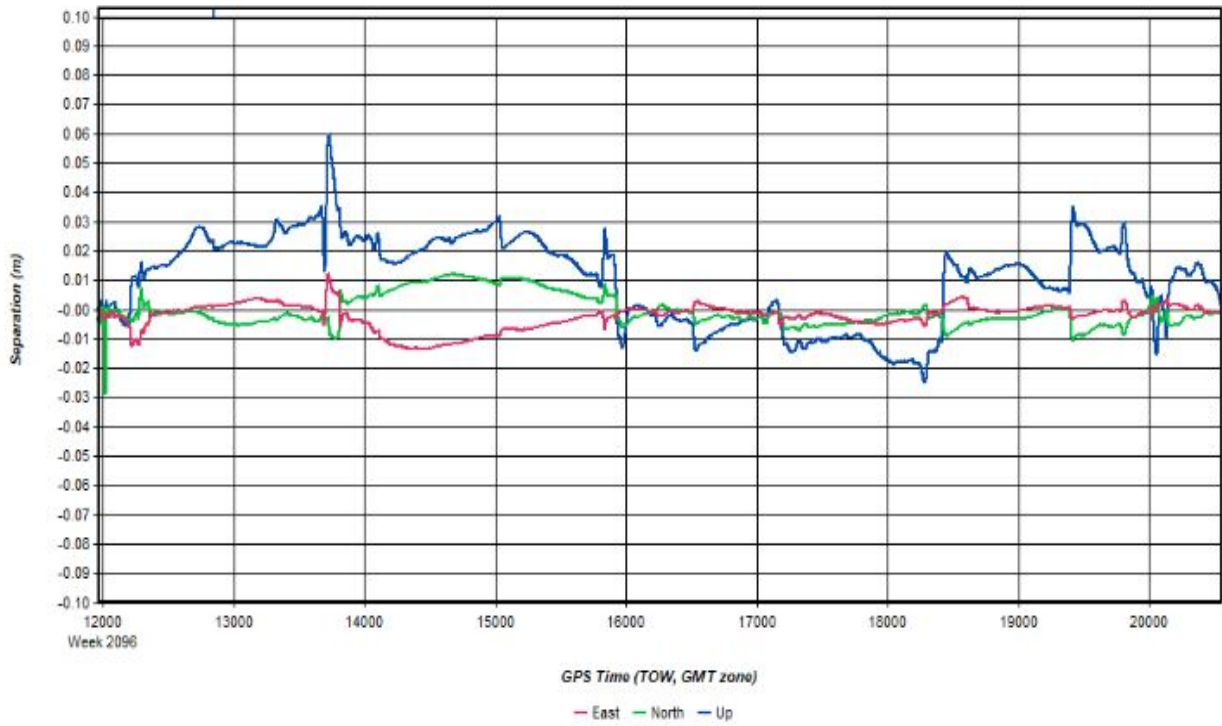
GNSS Quality Factor



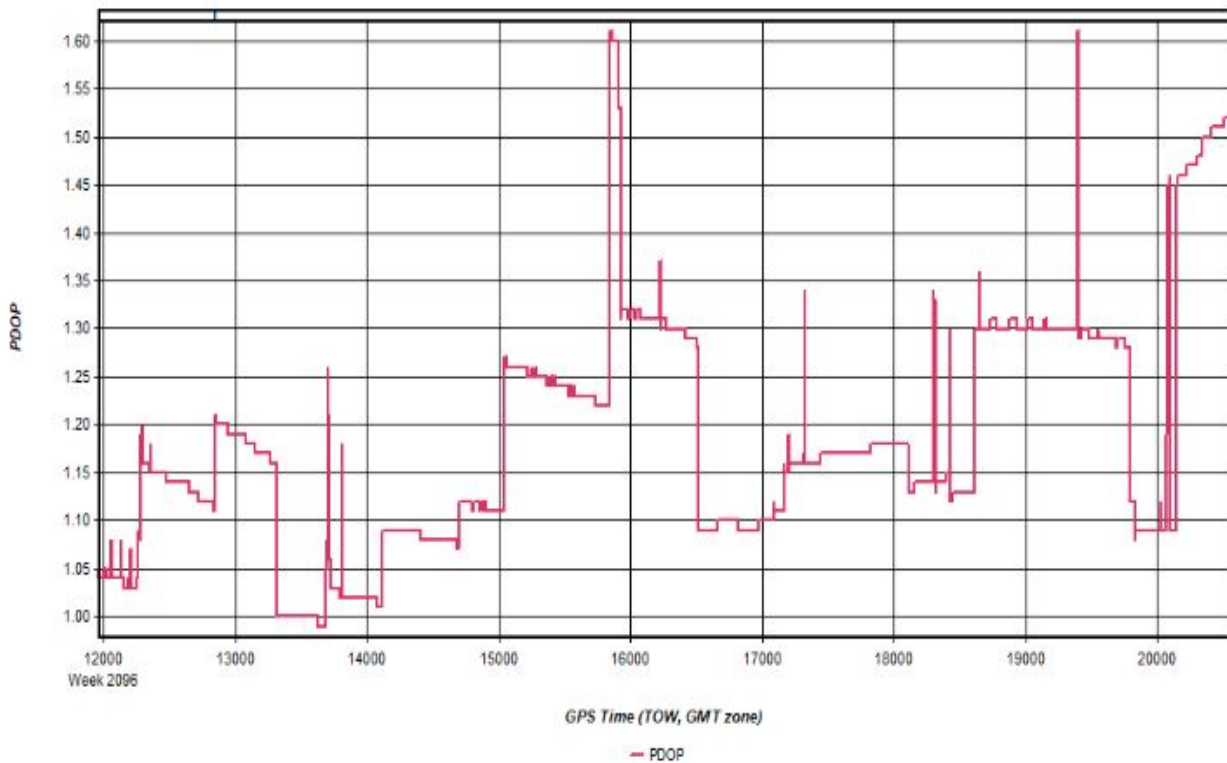
Number of Satellites



Forward/Reverse Separation



PDOP

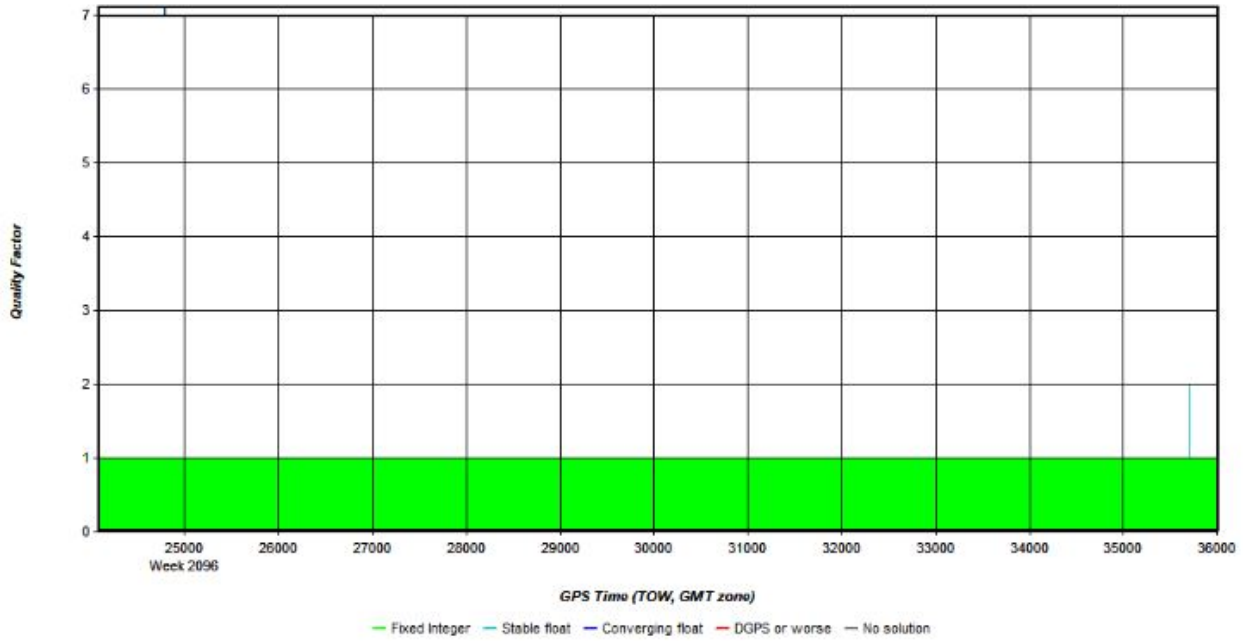


Top View

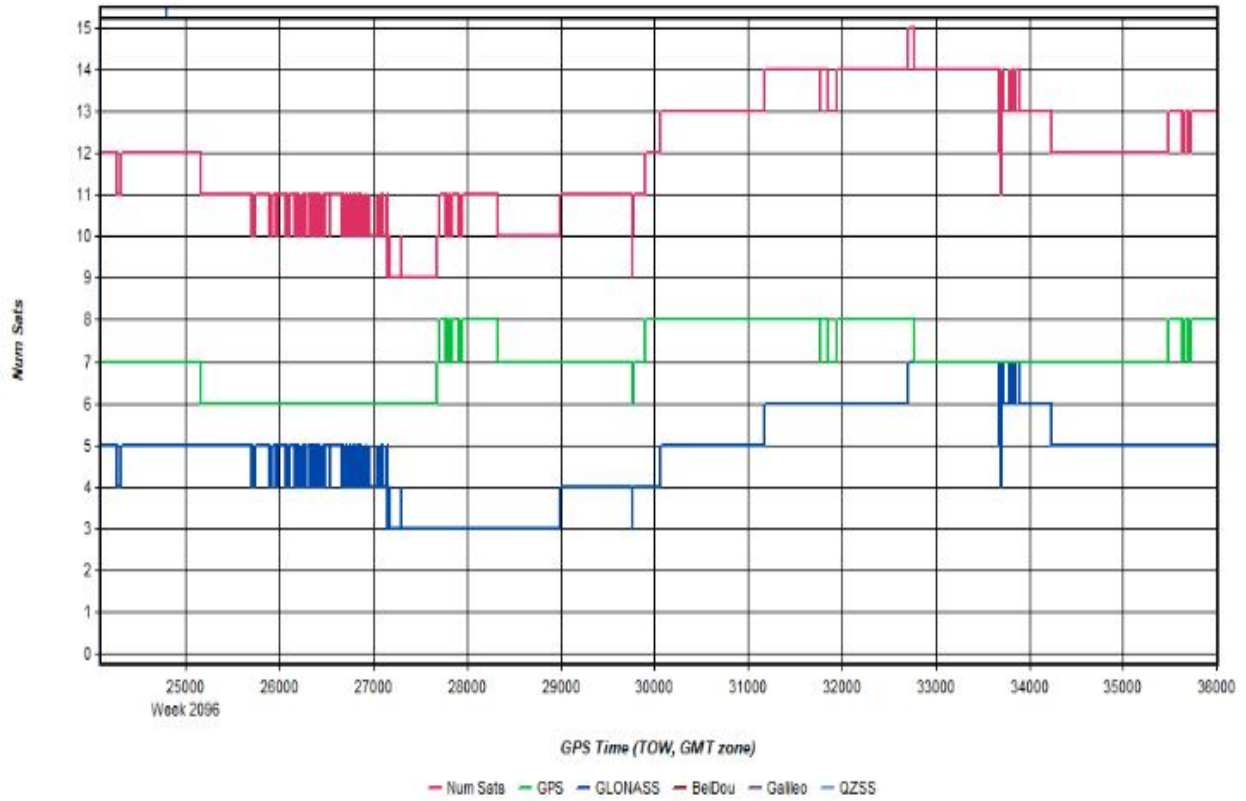


GNSS QC

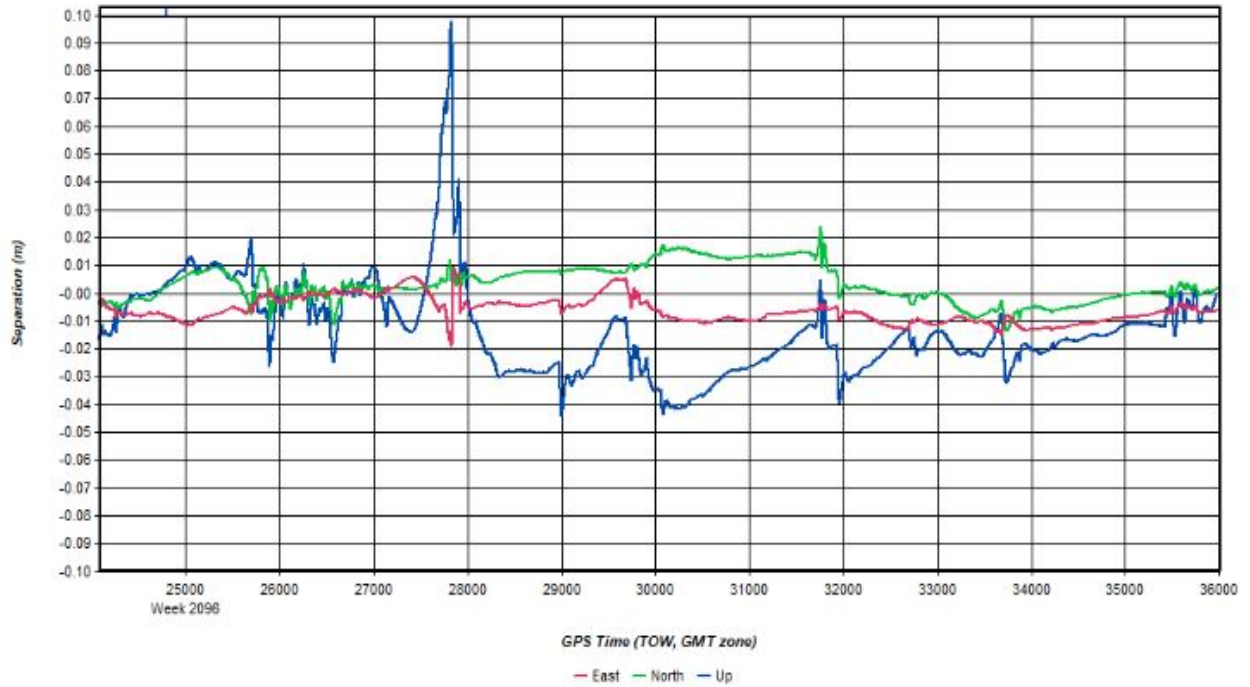
GNSS Quality Factor



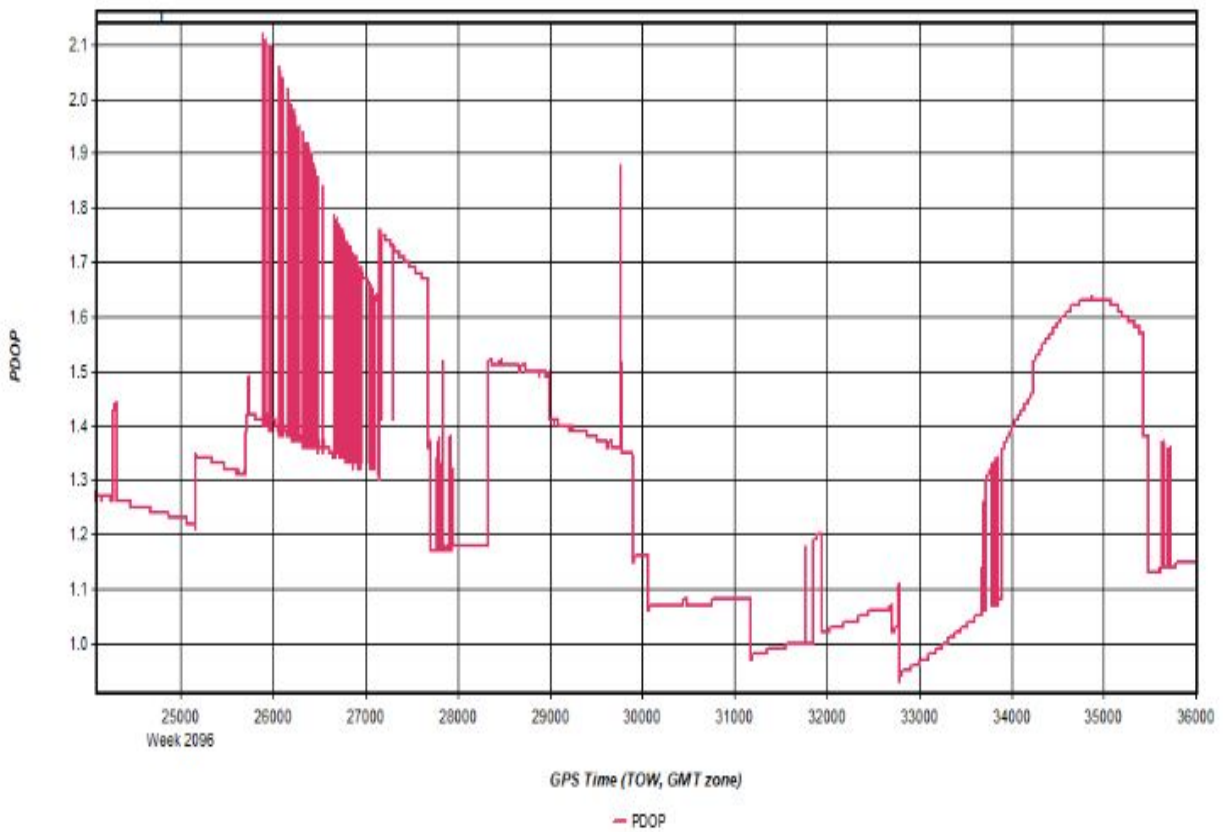
Number of Satellites



Forward/Reverse Separation



PDOP

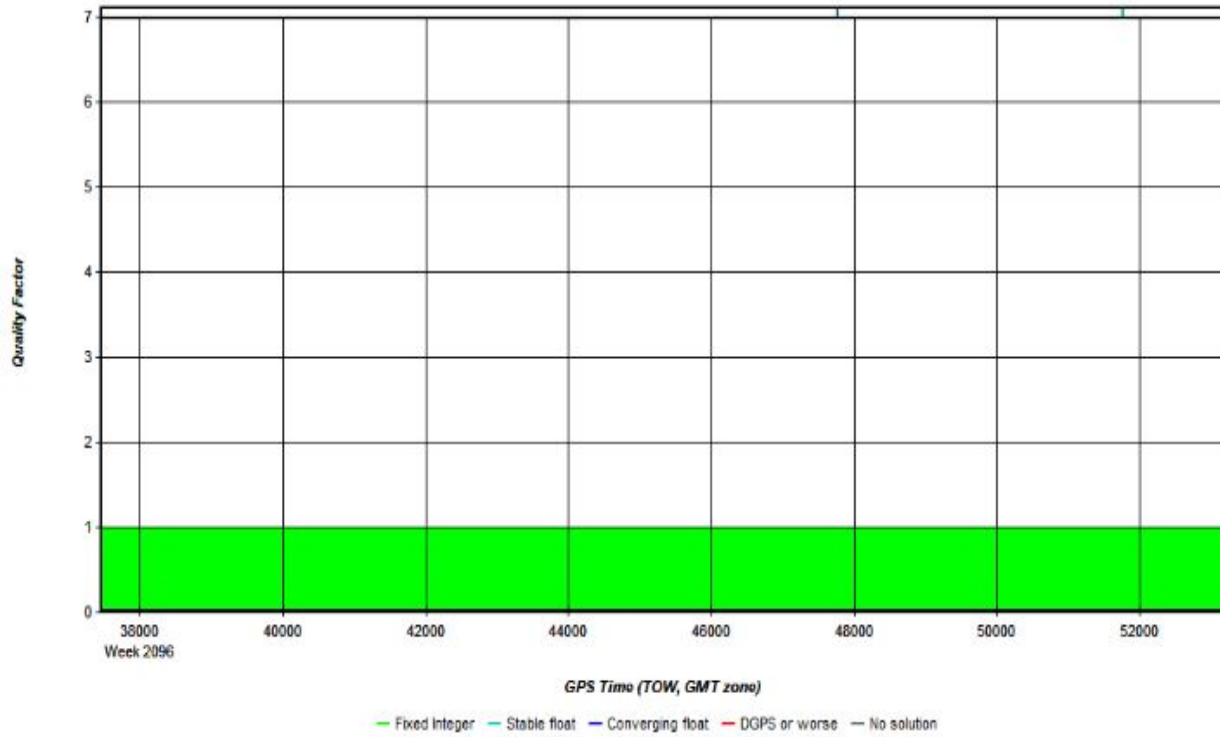


Top View

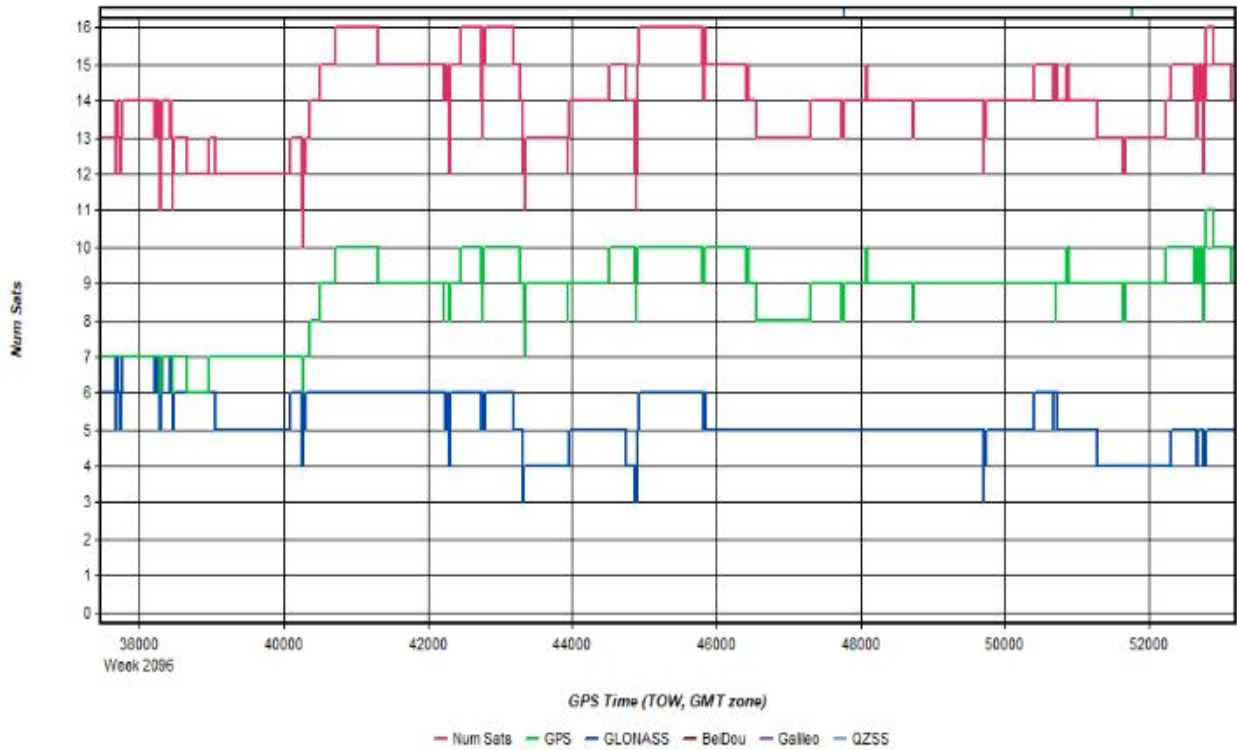


GNSS QC

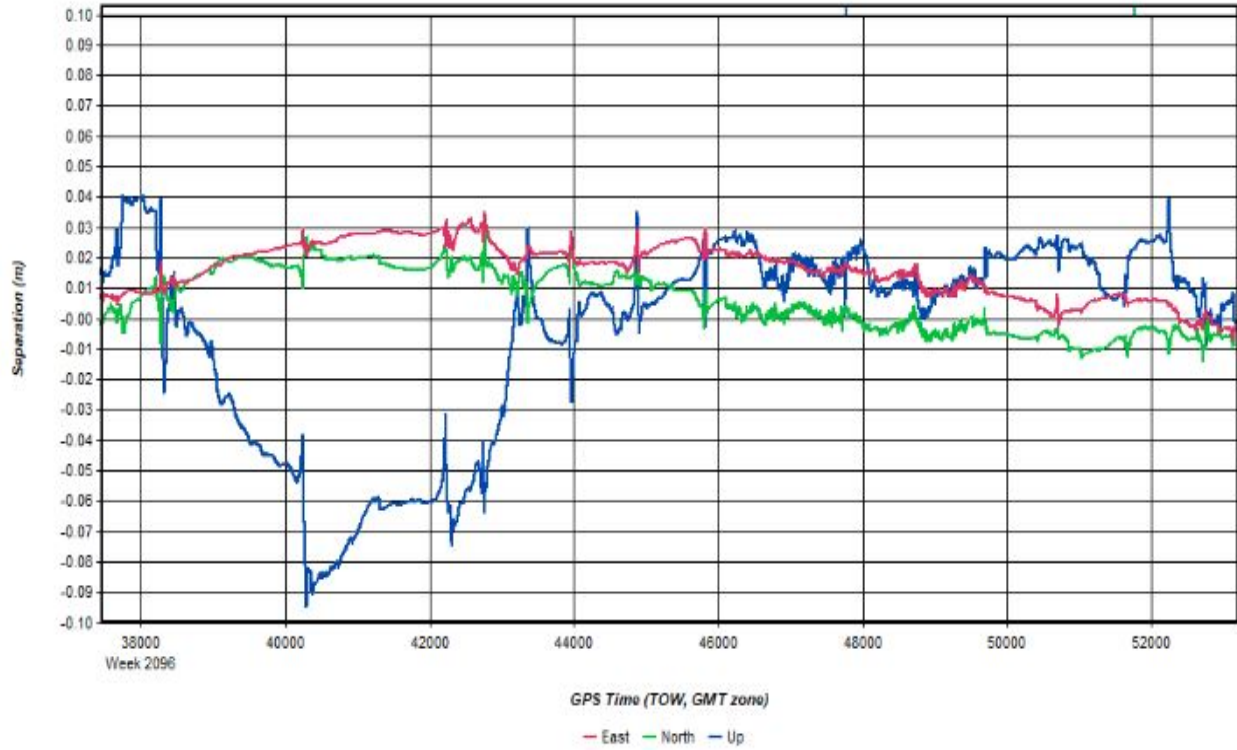
GNSS Quality Factor



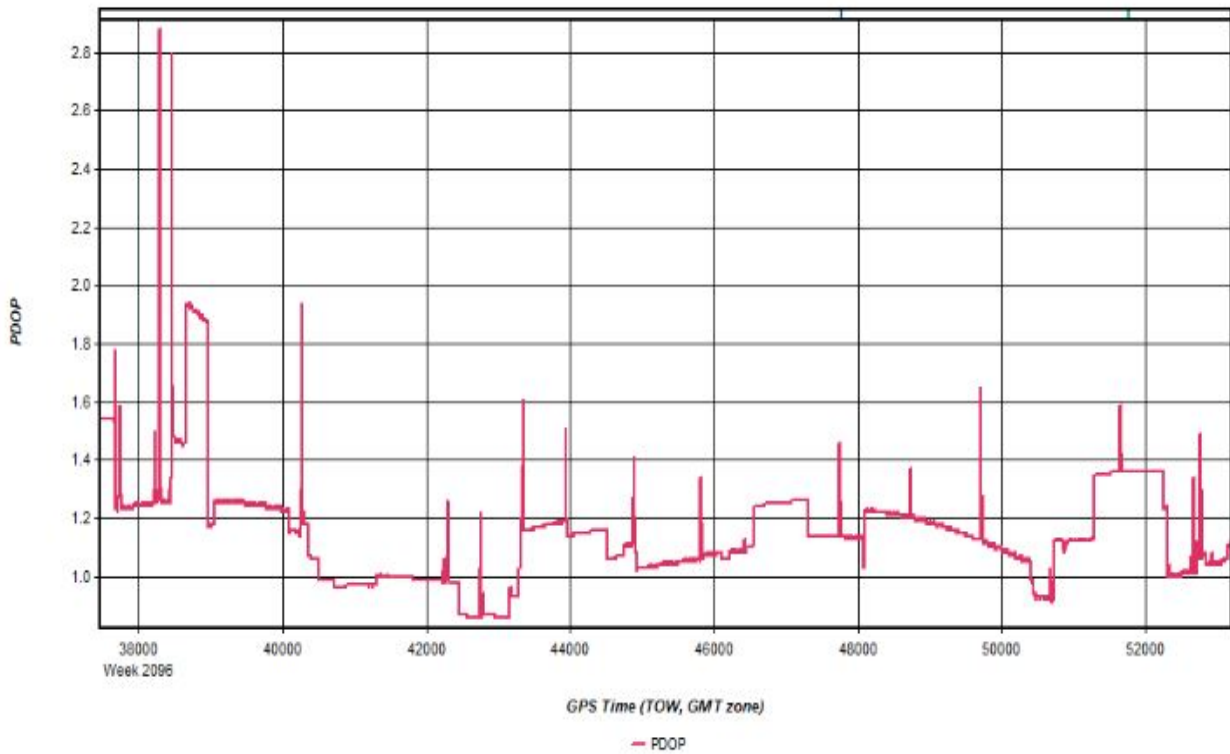
Number of Satellites



Forward/Reverse Separation



PDOP

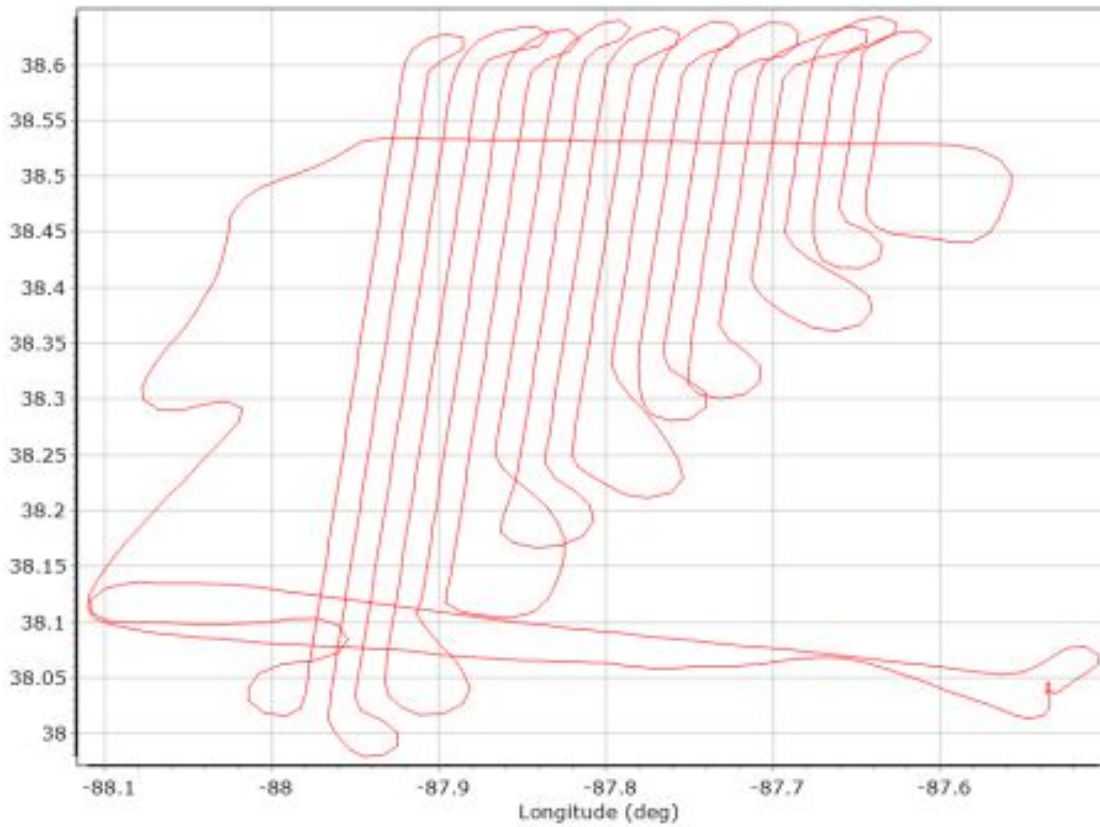


SurvTech, Inc.

201209A.docx QC Report - 06/21/2021 15:08:25

Smoothed Trajectory Information

Top View



GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.15	72.76	
Number of GPS SV	7	10	9
Number of GLONASS SV	0	9	7
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	19	16
PDOP	1.13	1.70	1.35
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	18145.00	0.00	1.00
Percentage	99.99	0.00	0.01

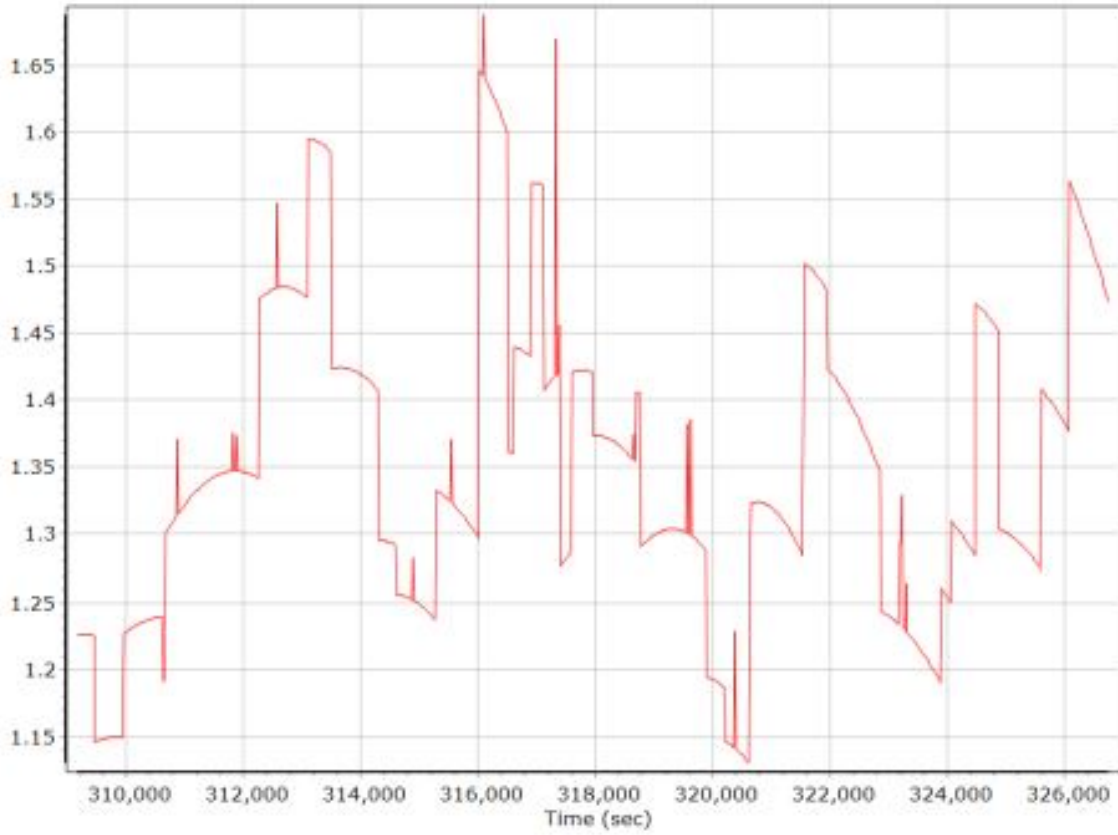
Number of Satellites



Forward/Reverse Separation

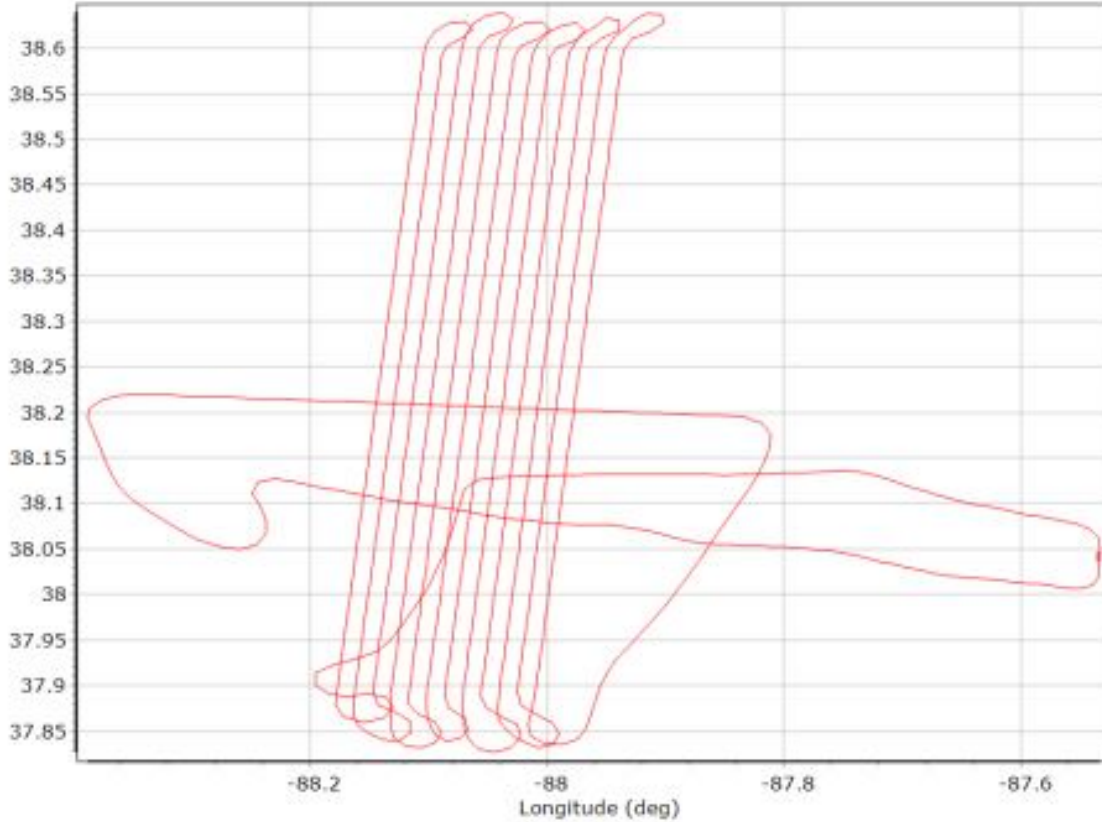


PDOP



201209B.docx QC Report - 06/21/2021 15:178:25
 Smoothed Trajectory Information

Top View

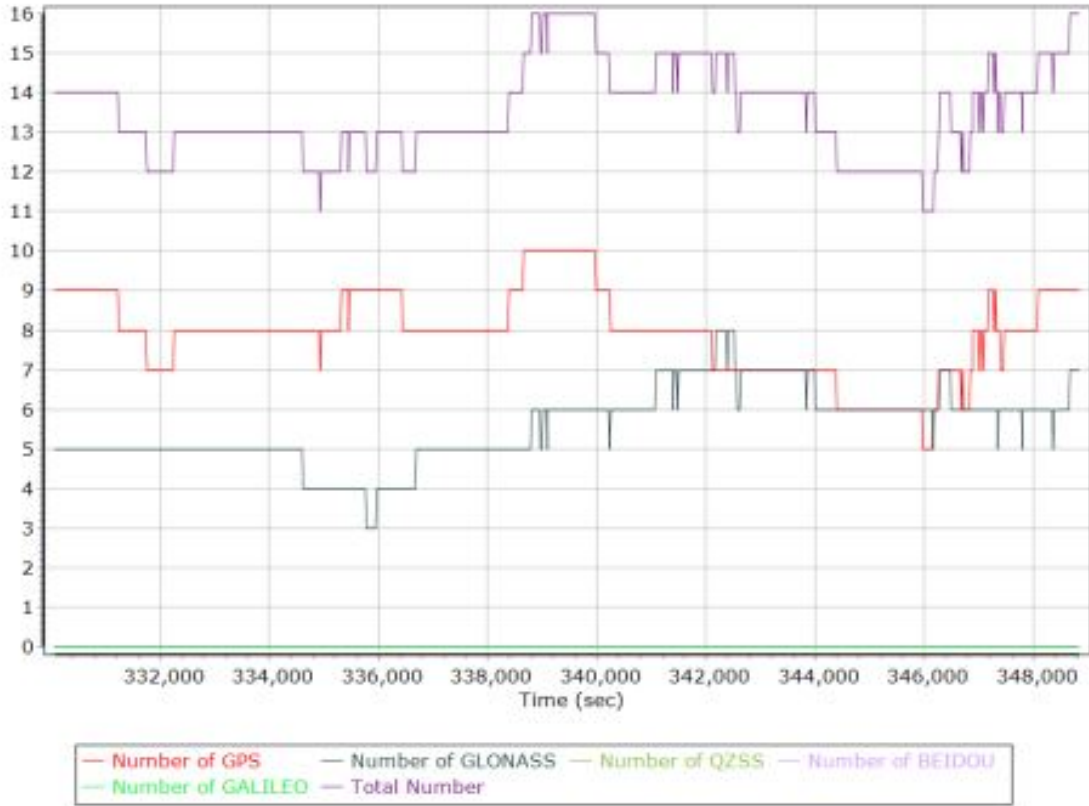


GNSS QC

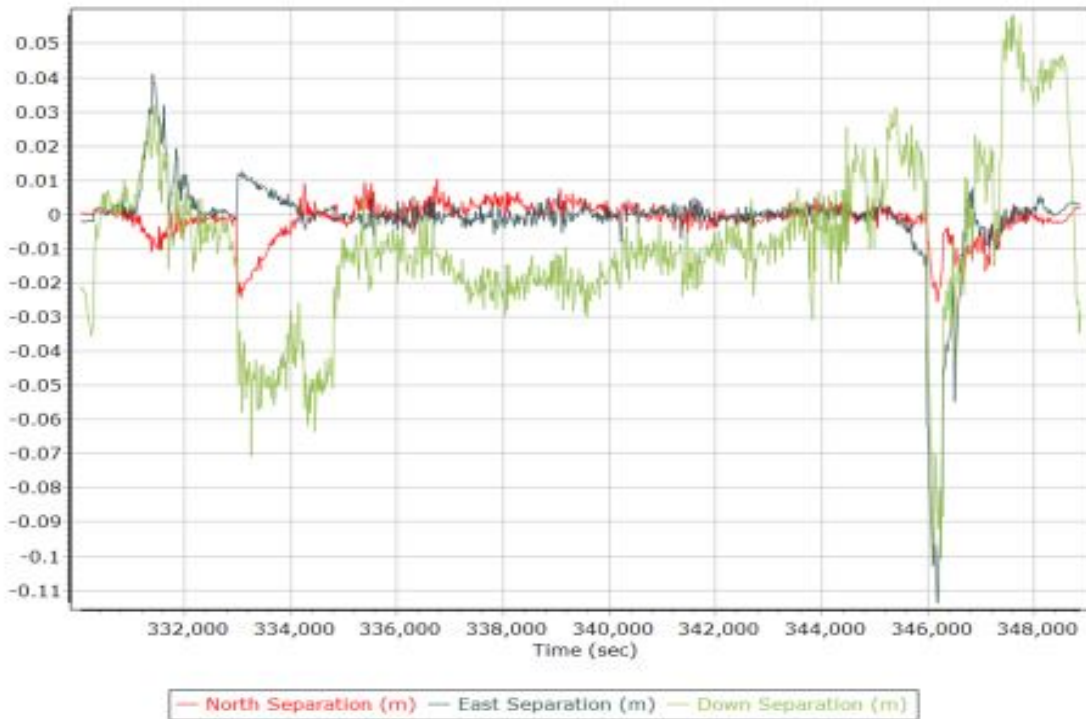
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.15	81.09	
Number of GPS SV	5	10	8
Number of GLONASS SV	0	8	6
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	9	16	14
PDOP	1.19	3.04	1.59
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	19283.00	0.00	1.00
Percentage	99.99	0.00	0.01

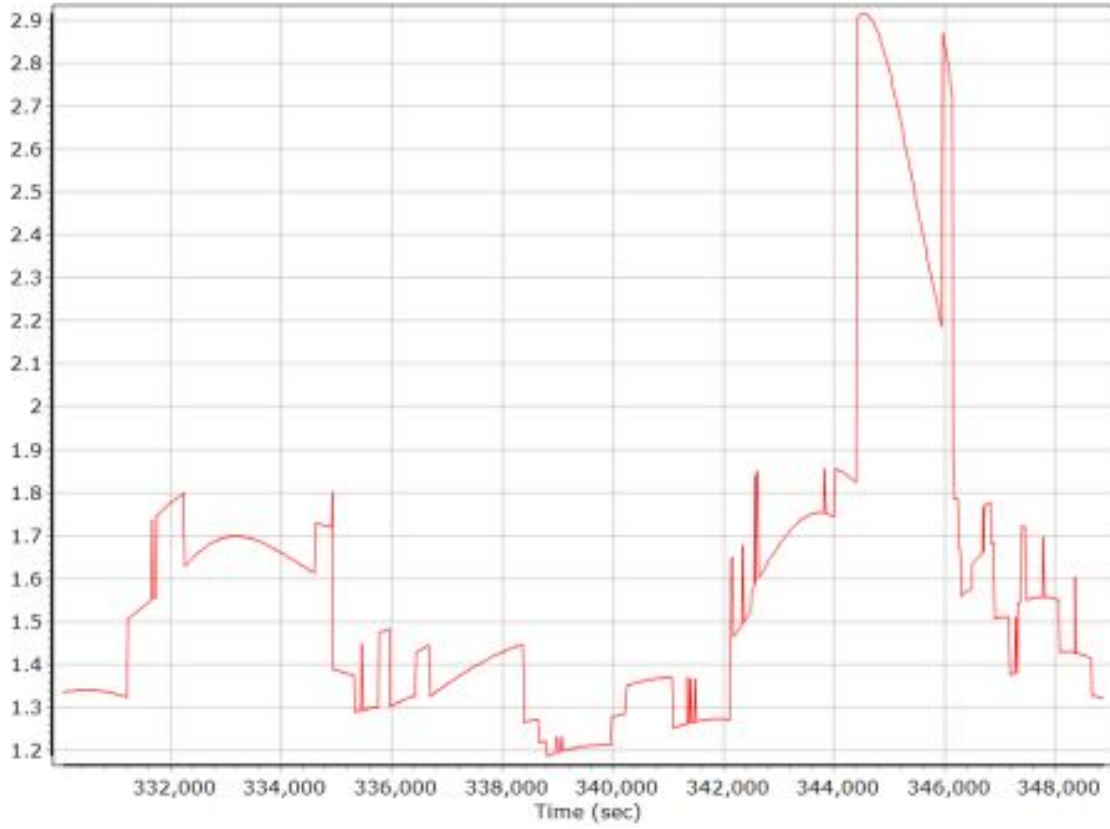
Number of Satellites



Forward/Reverse Separation

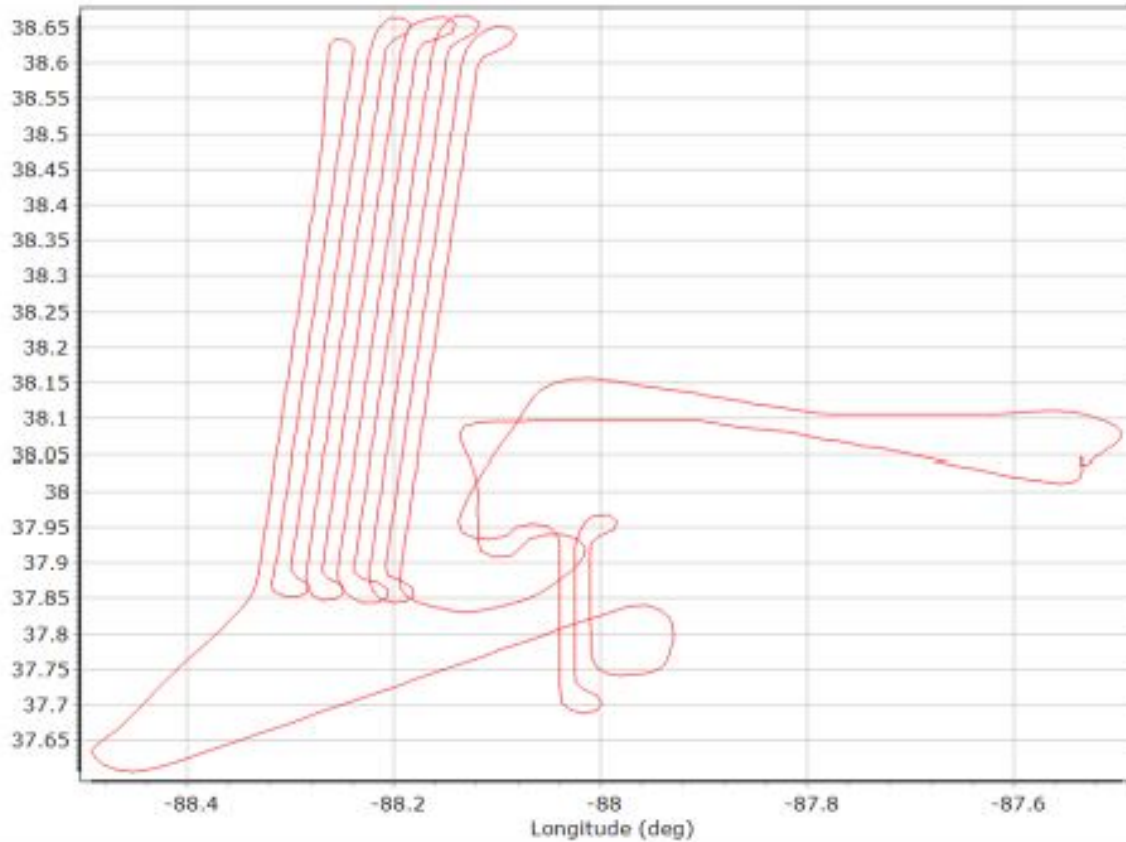


PDOP



201210A.docx QC Report - 06/21/2021 15:17:25
Smoothed Trajectory Information

Top View

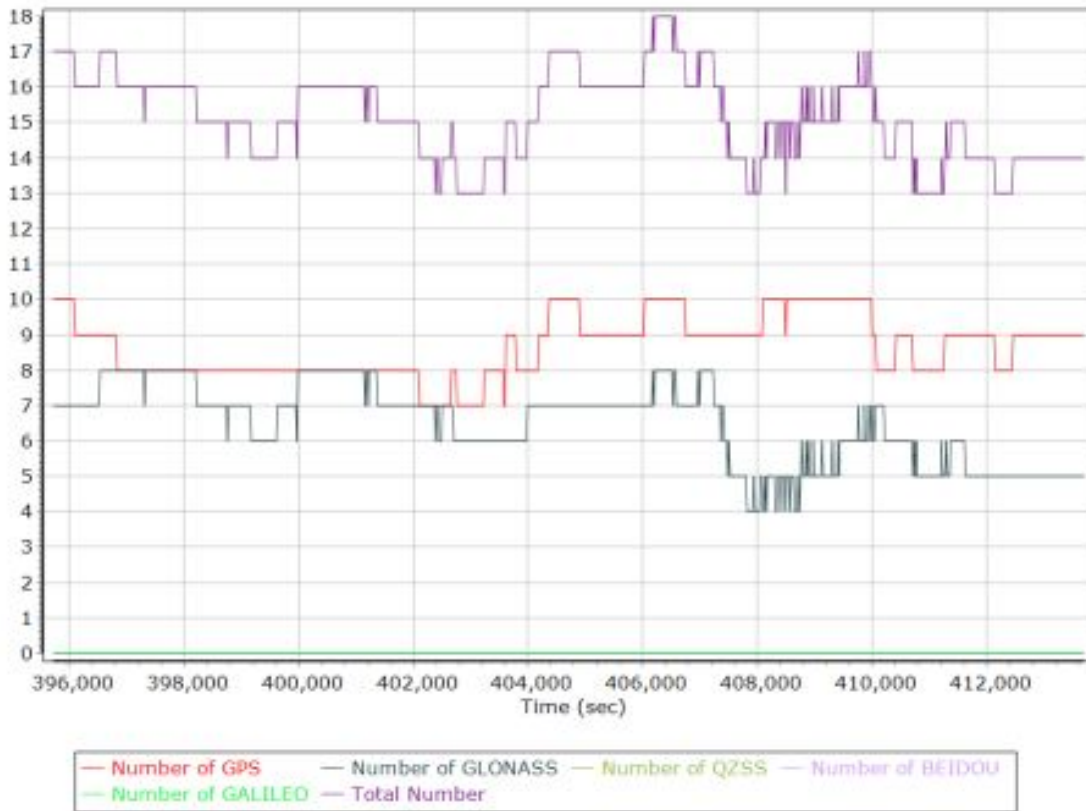


GNSS QC

GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.09	95.47	
Number of GPS SV	7	10	9
Number of GLONASS SV	0	8	6
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	18	15
PDOP	1.13	1.76	1.38
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	18486.00	0.00	1.00
Percentage	99.99	0.00	0.01

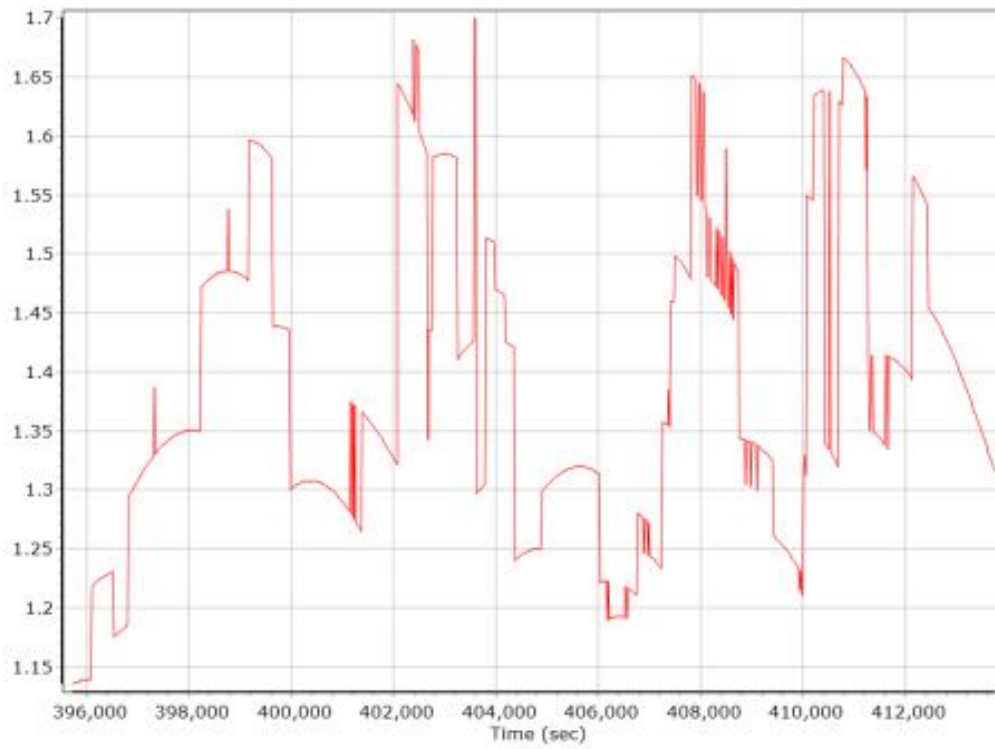
Number of Satellites



Forward/Reverse Separation

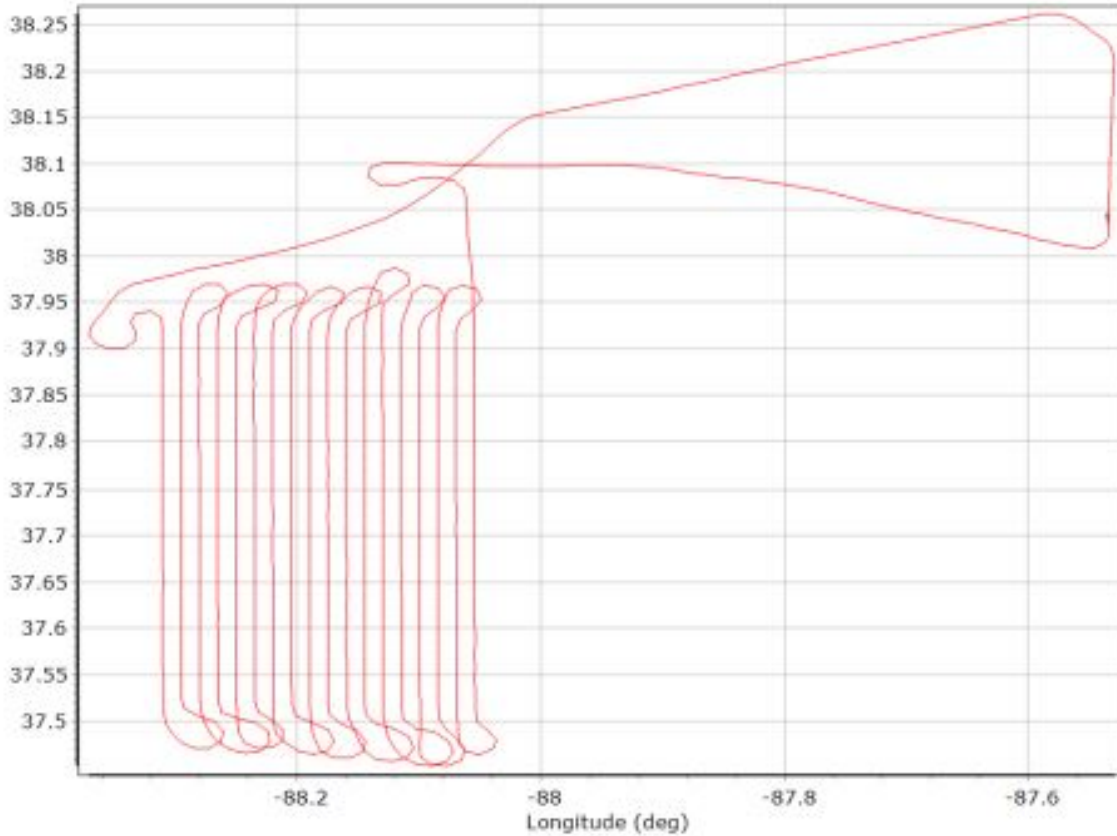


PDOP



201210B.docx QC Report - 06/21/2021 15:29:25
 Smoothed Trajectory Information

Top View

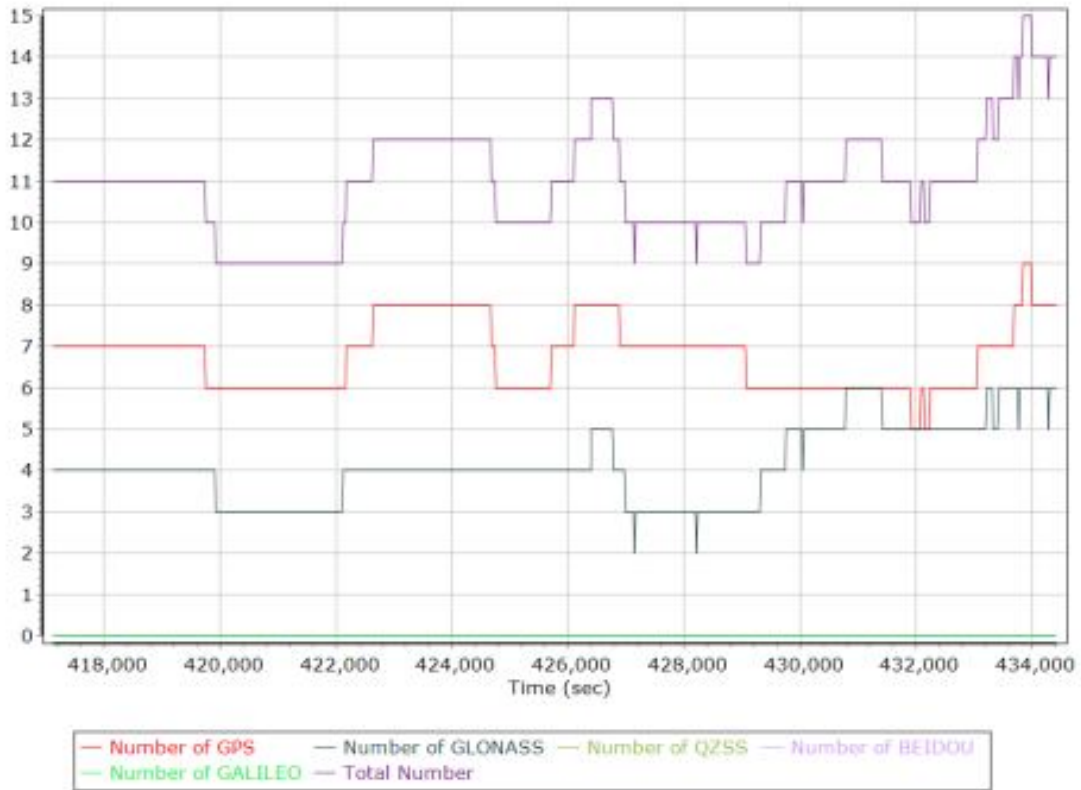


GNSS QC

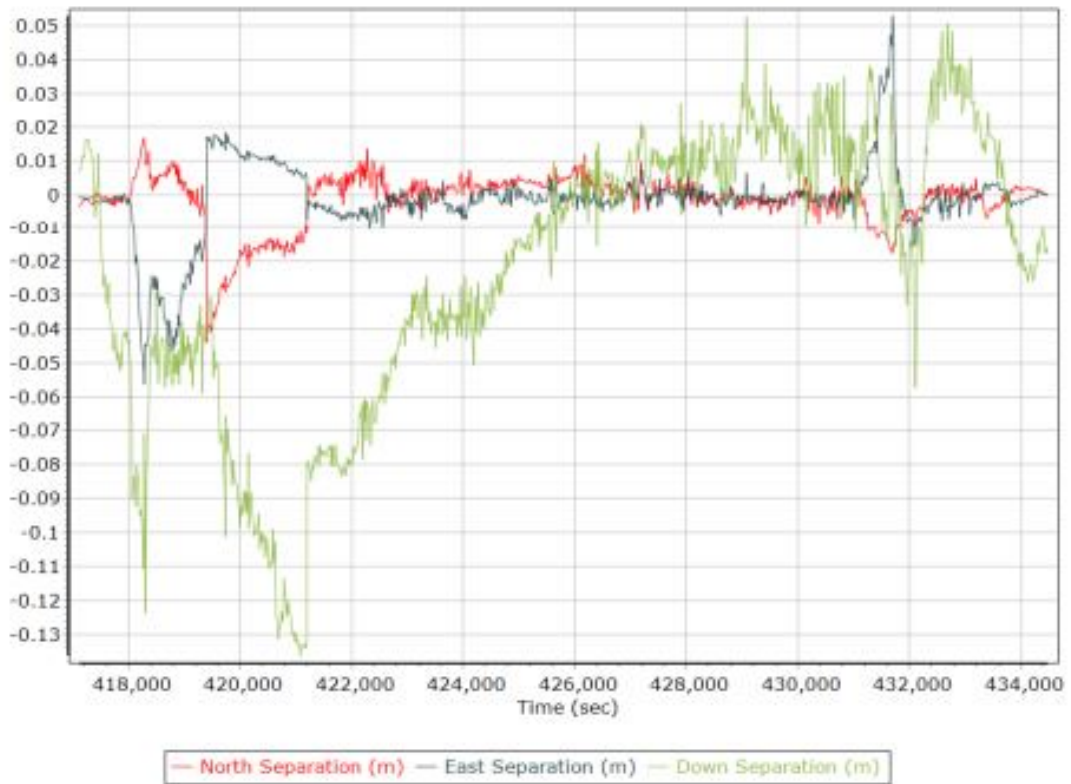
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.09	91.31	
Number of GPS SV	5	9	7
Number of GLONASS SV	0	6	4
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	0	0	0
Total number of SV	7	15	11
PDOP	1.40	4.38	2.24
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	17747.00	0.00	1.00
Percentage	99.99	0.00	0.01

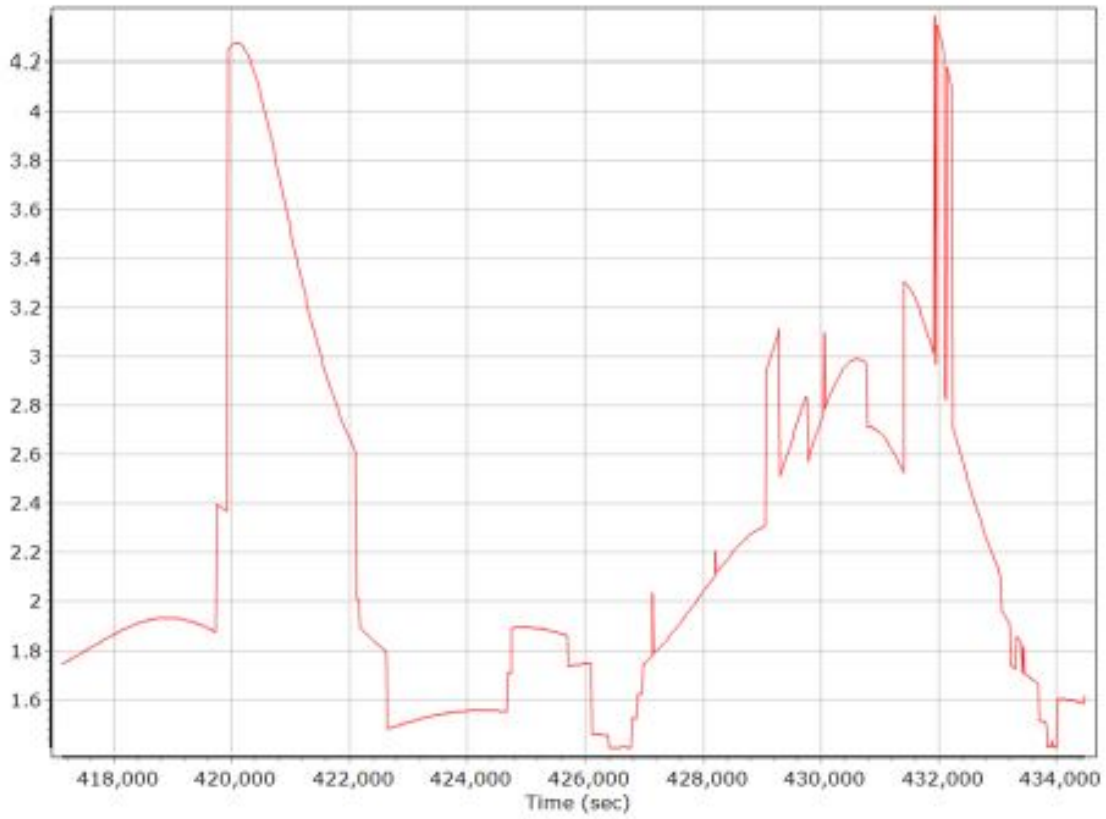
Number of Satellites



Forward/Reverse Separation

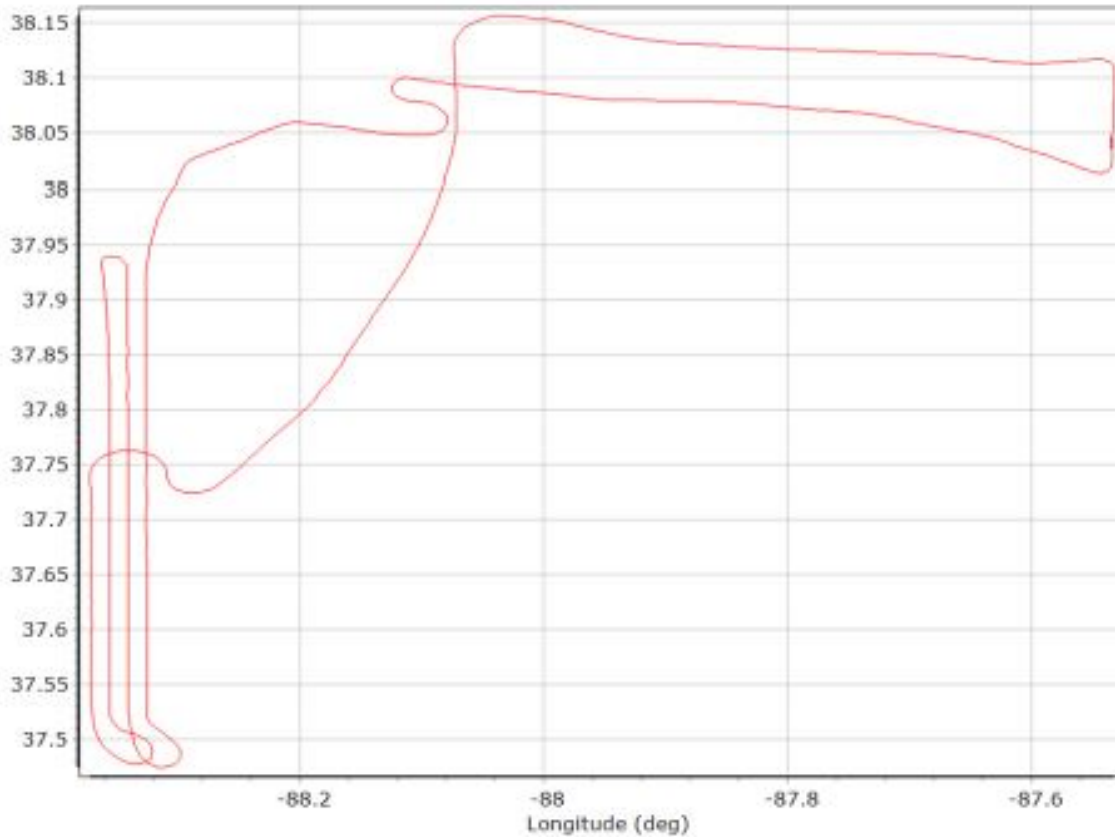


PDOP



201211A.docx QC Report - 06/21/2021 15:29:25
 Smoothed Trajectory Information

Top View

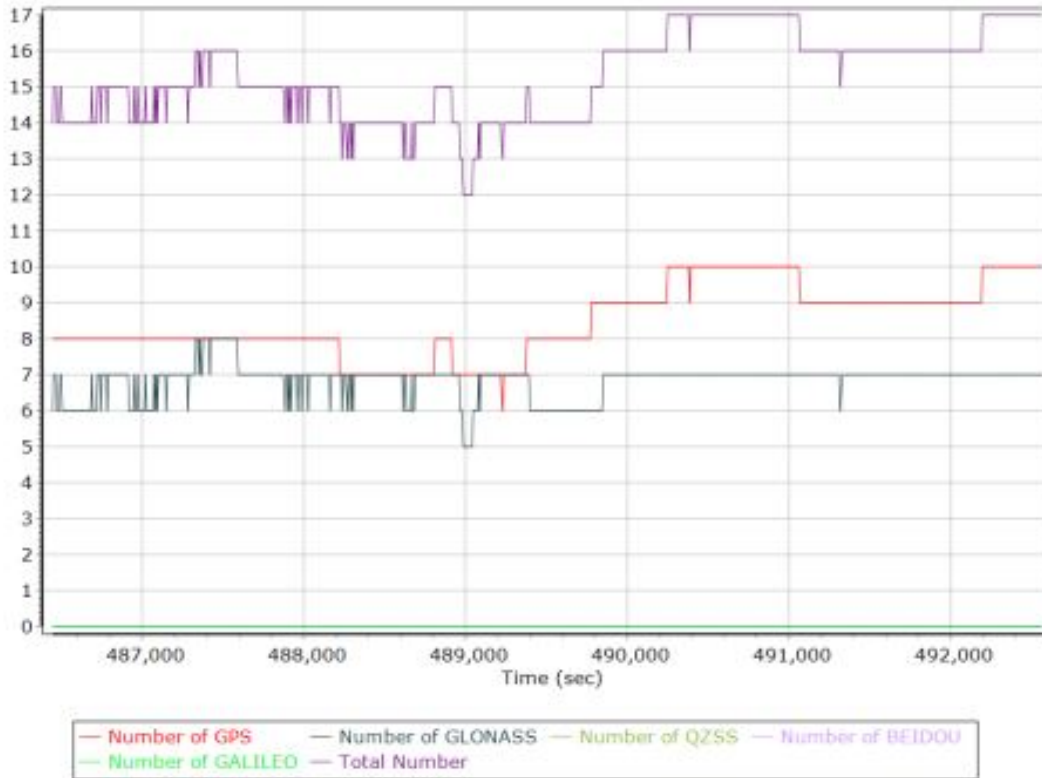


GNSS QC

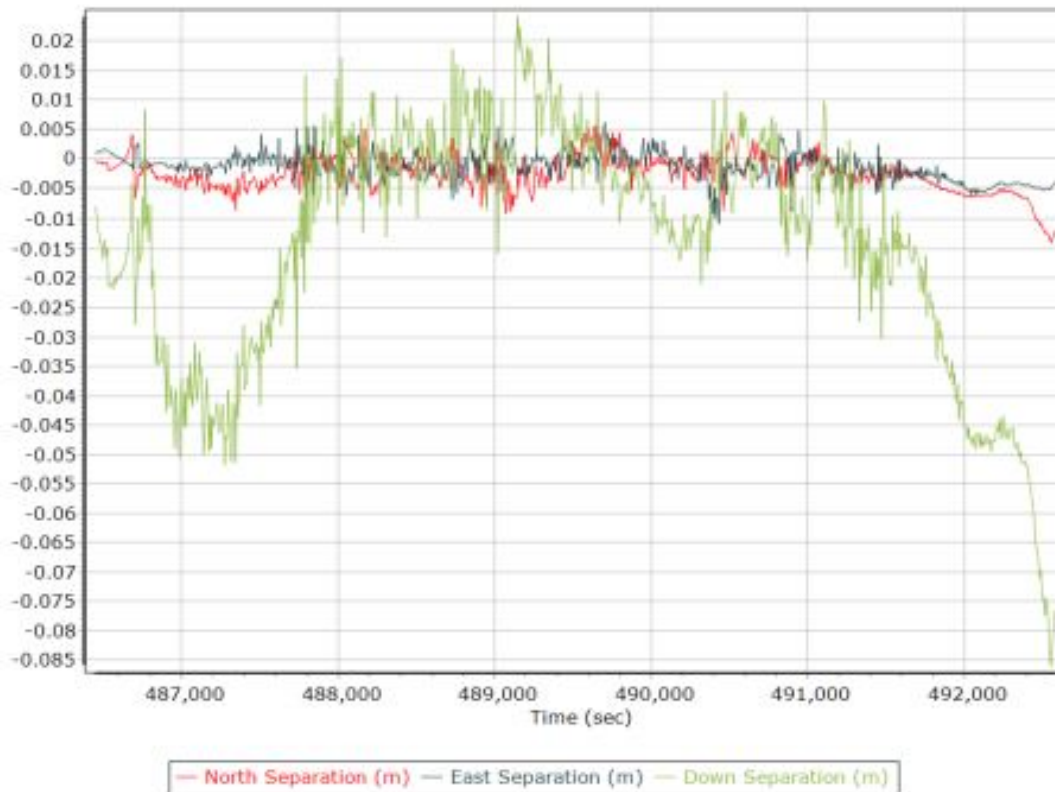
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.09	94.43	
Number of GPS SV	6	10	8
Number of GLONASS SV	0	8	7
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	8	17	15
PDOP	1.23	1.97	1.40
QC Solution Gaps	1.00	1.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	6540.00	0.00	1.00
Percentage	99.98	0.00	0.02

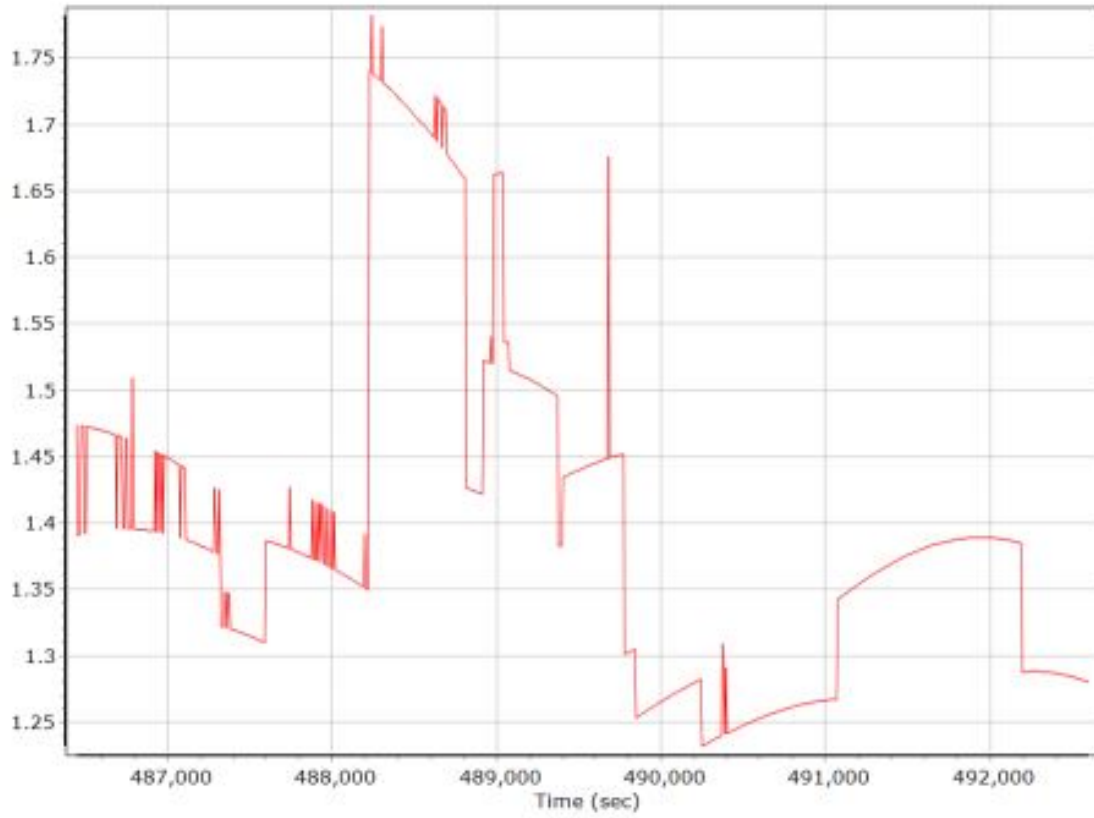
Number of Satellites



Forward/Reverse Separation

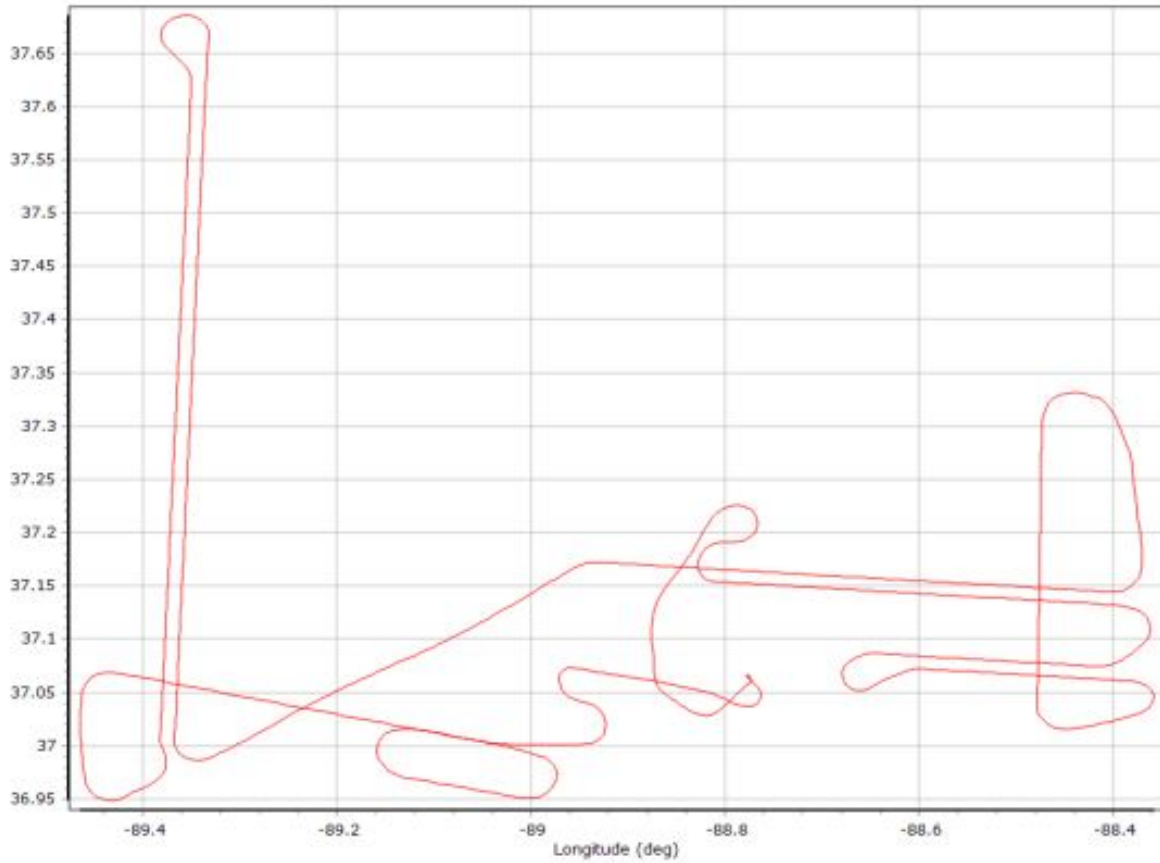


PDOP



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 120620a448.docx QC Report - 6/28/2021 10:56:35
 Smoothed Trajectory Information

Top View

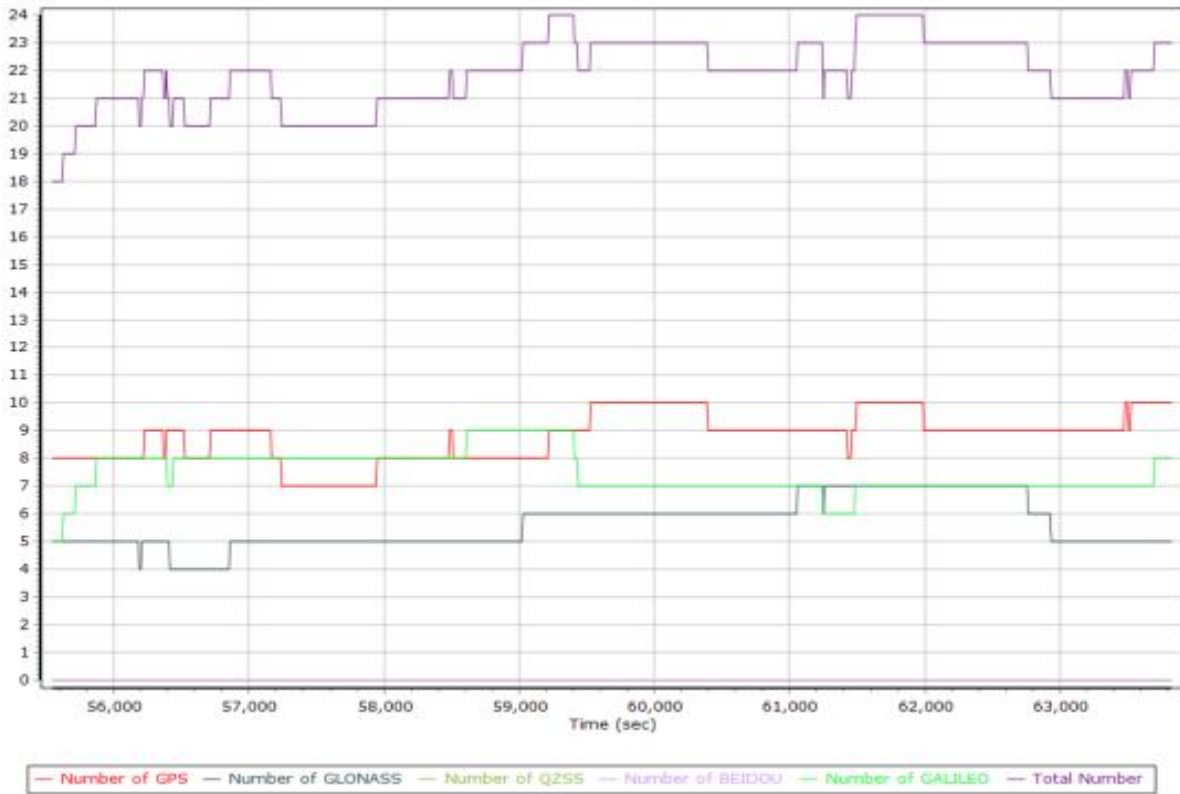


GNSS QC

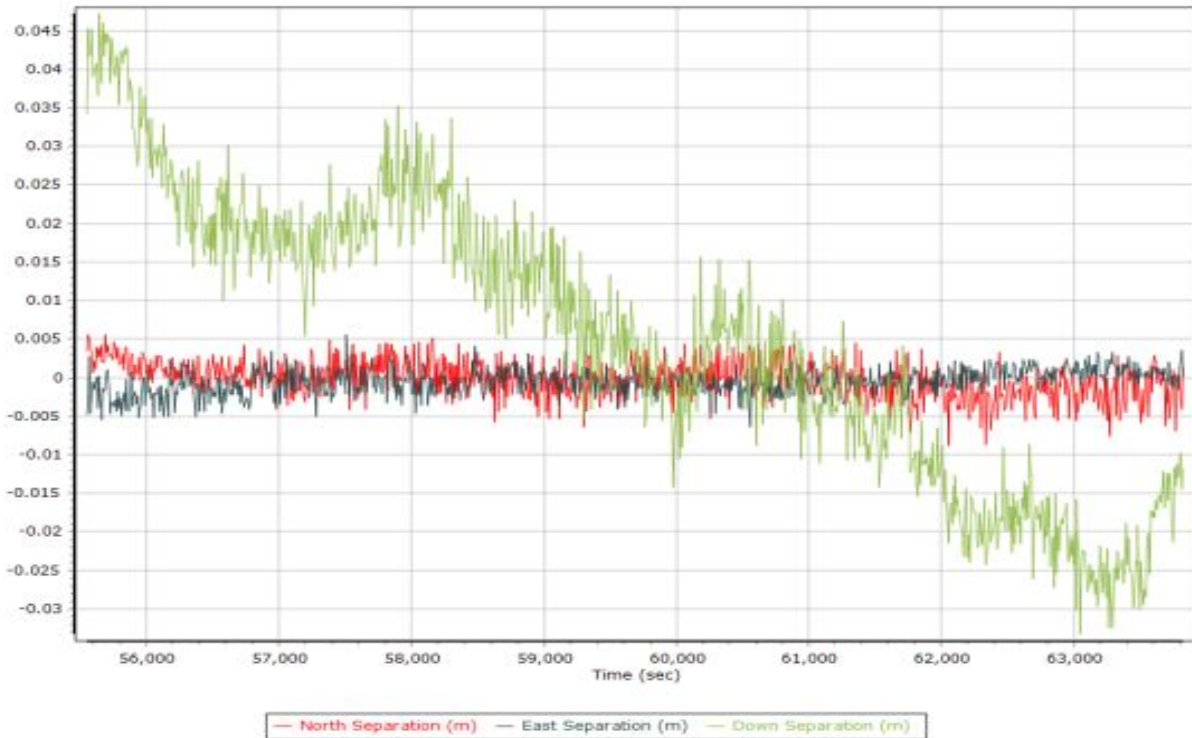
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	7	10	9
Number of GLONASS SV	3	7	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	16	24	22
PDOP	1.03	1.56	1.17
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	8983.00	0.00	0.00
Percentage	100.00	0.00	0.00

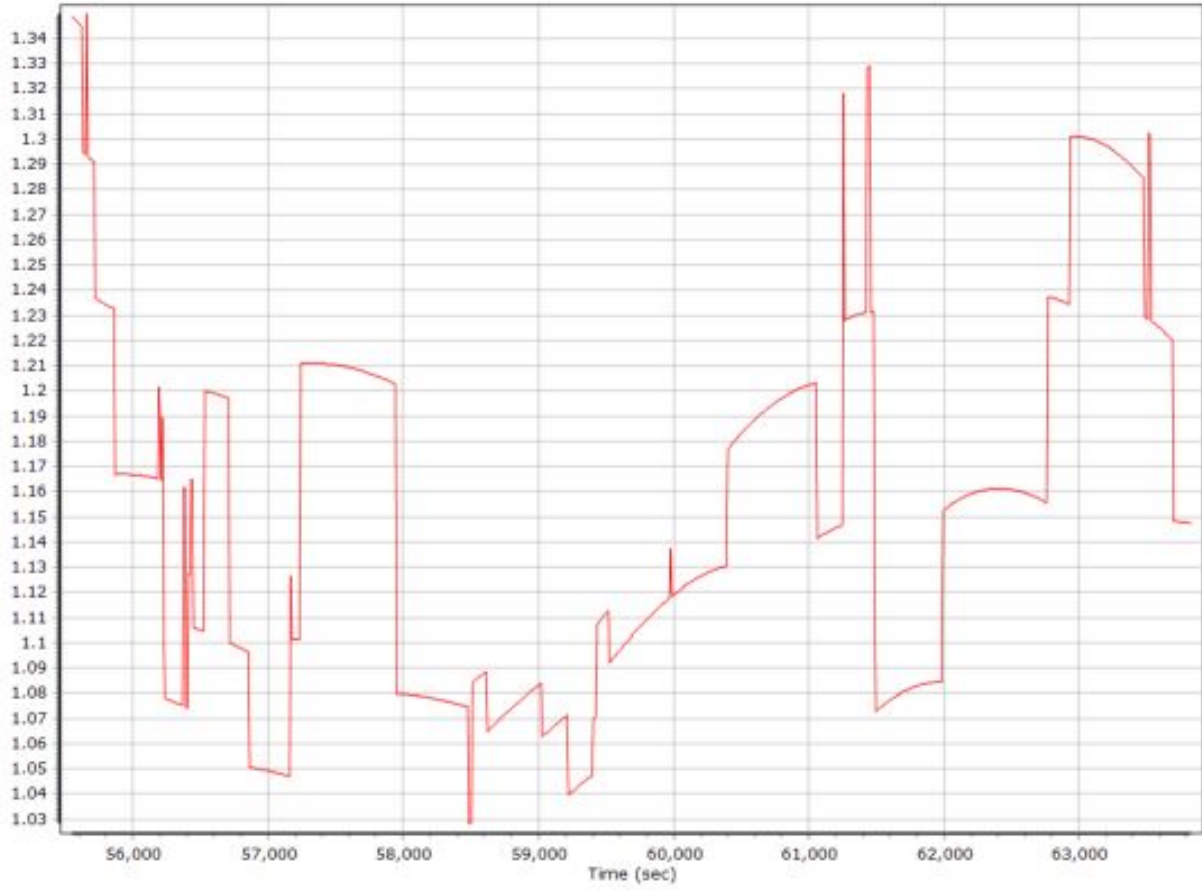
Number of Satellites



Forward/Reverse Separation

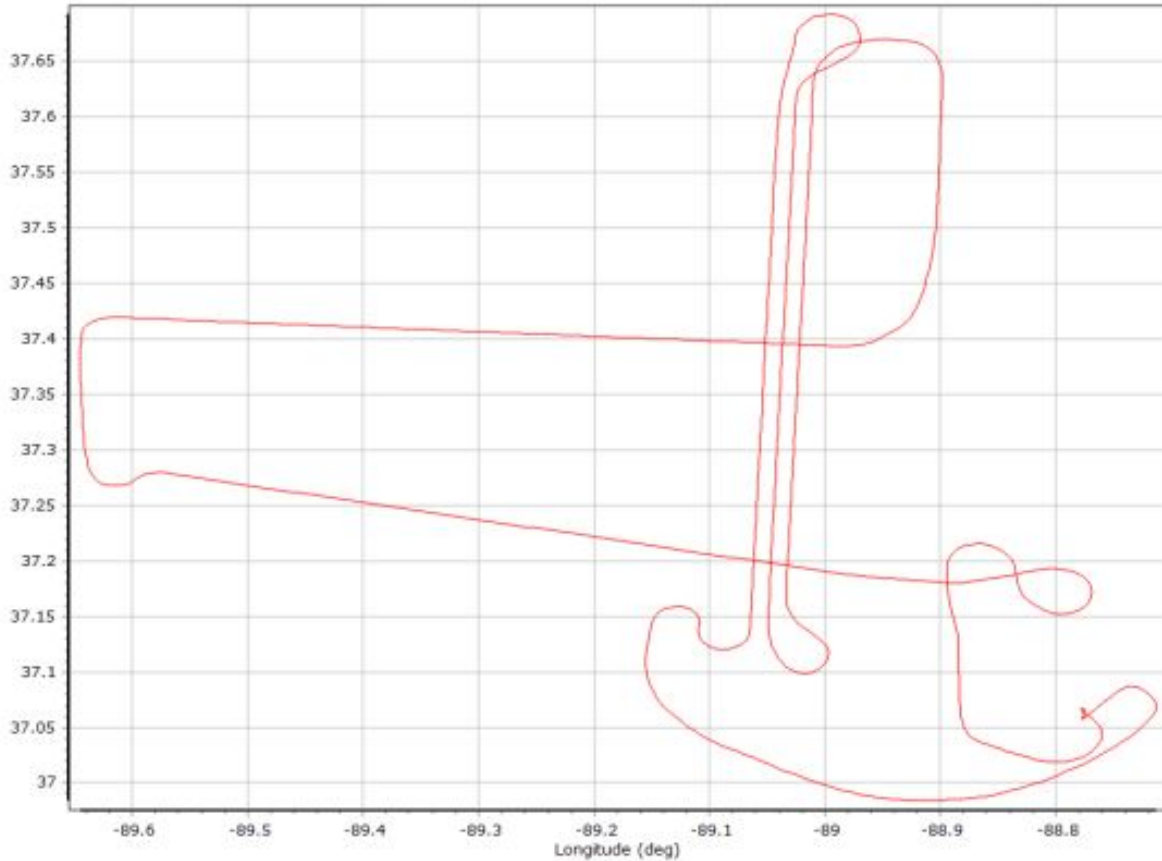


PDOP



120820a386.docx QC Report - 6/28/2021 11:00:27
 Smoothed Trajectory Information

Top View

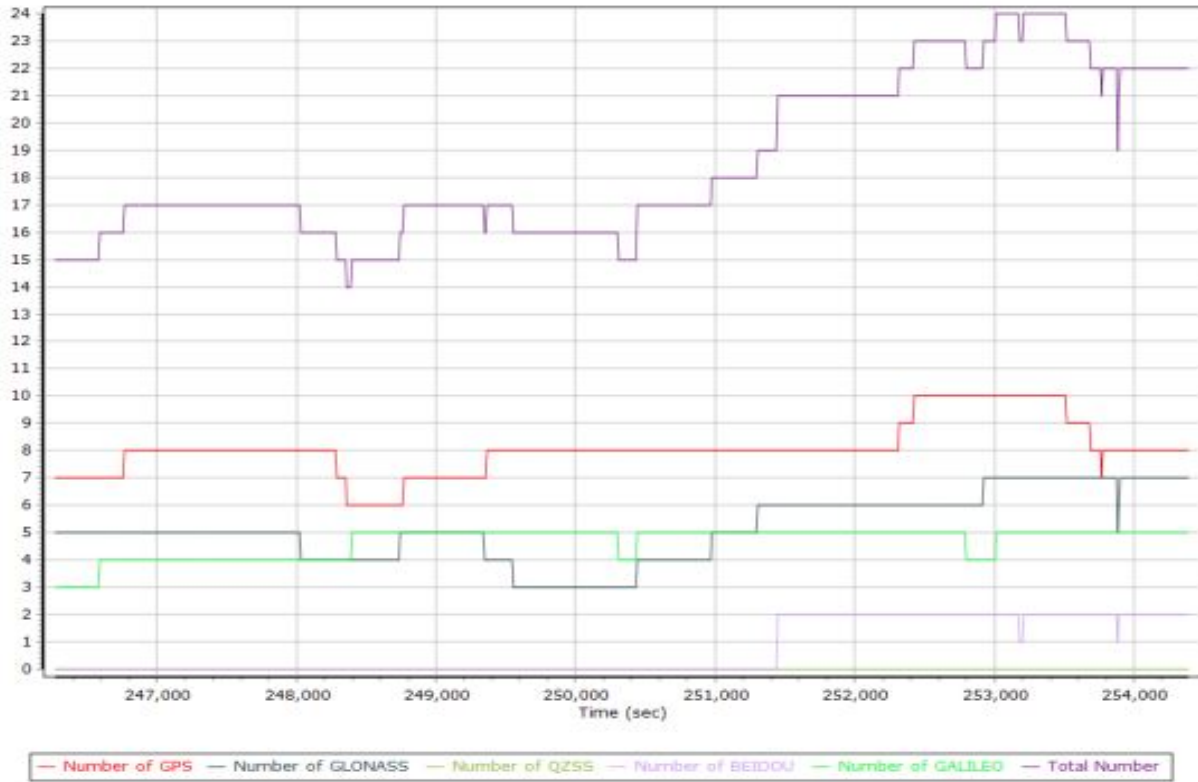


GNSS QC

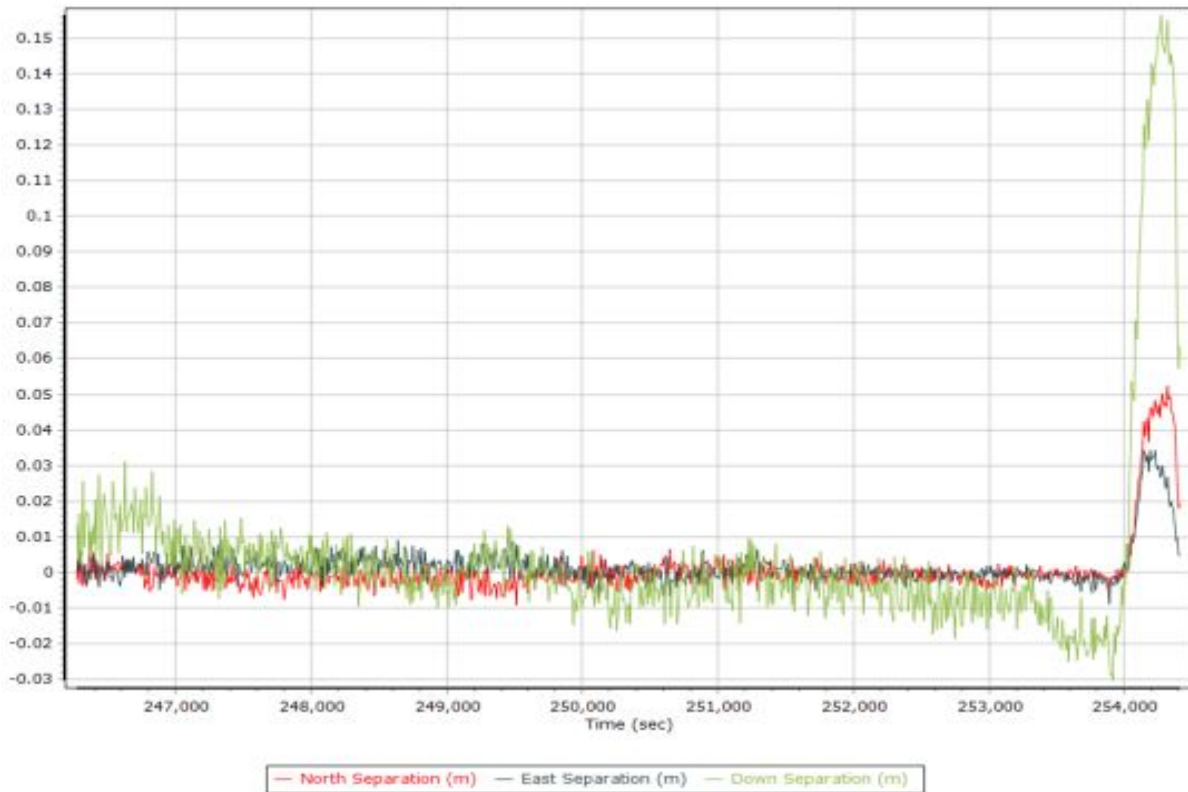
GNSS QC Statistics

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	1
Number of GALILEO SV	2	5	5
Total number of SV	12	24	18
PDOP	1.02	1.95	1.30
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	8699.00	0.00	0.00
Percentage	100.00	0.00	0.00

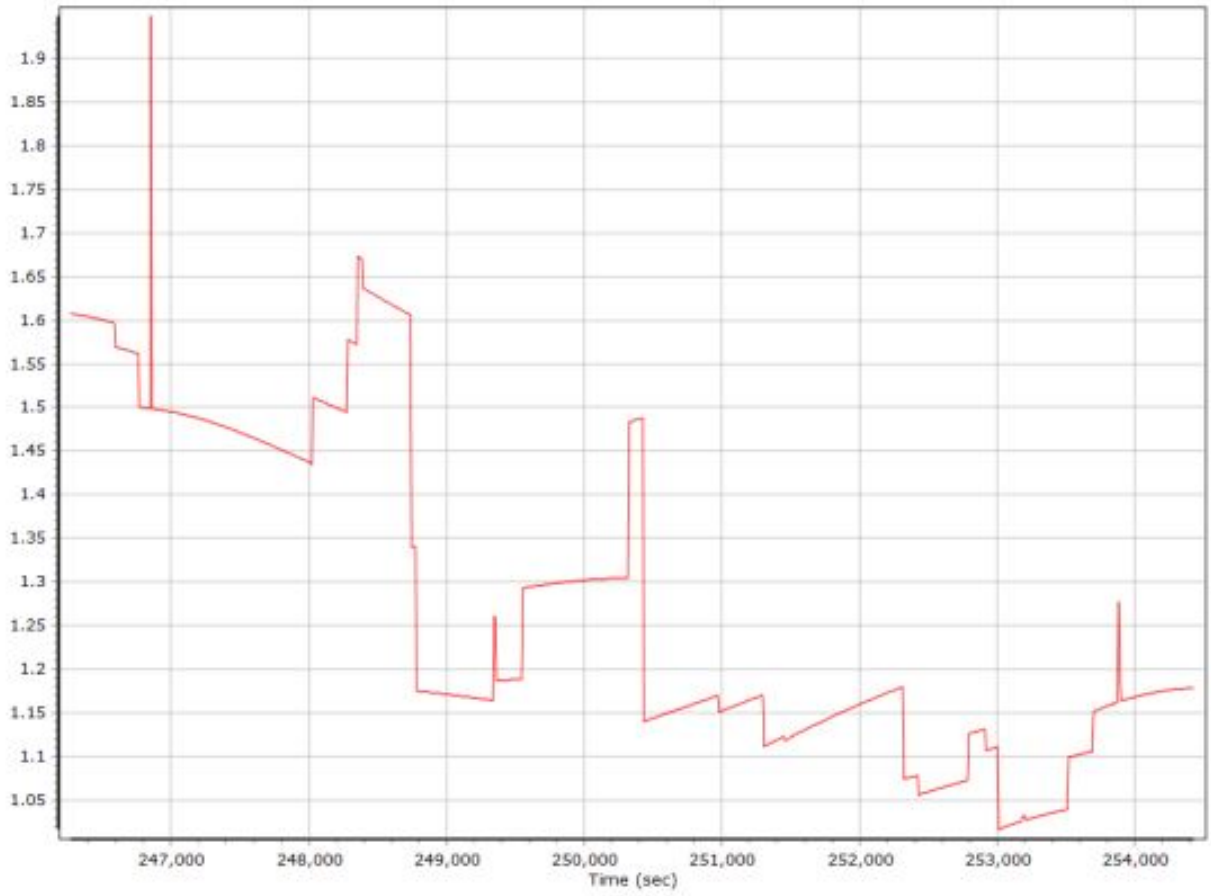
Number of Satellites



Forward/Reverse Separation



PDOP



120820a448.docx QC Report - 6/28/2021 11:07:13
 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	6
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	1
Number of GALILEO SV	4	6	5
Total number of SV	15	24	20
PDOP	0.98	1.69	1.27
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	12624.00	0.00	0.00
Percentage	100.00	0.00	0.00

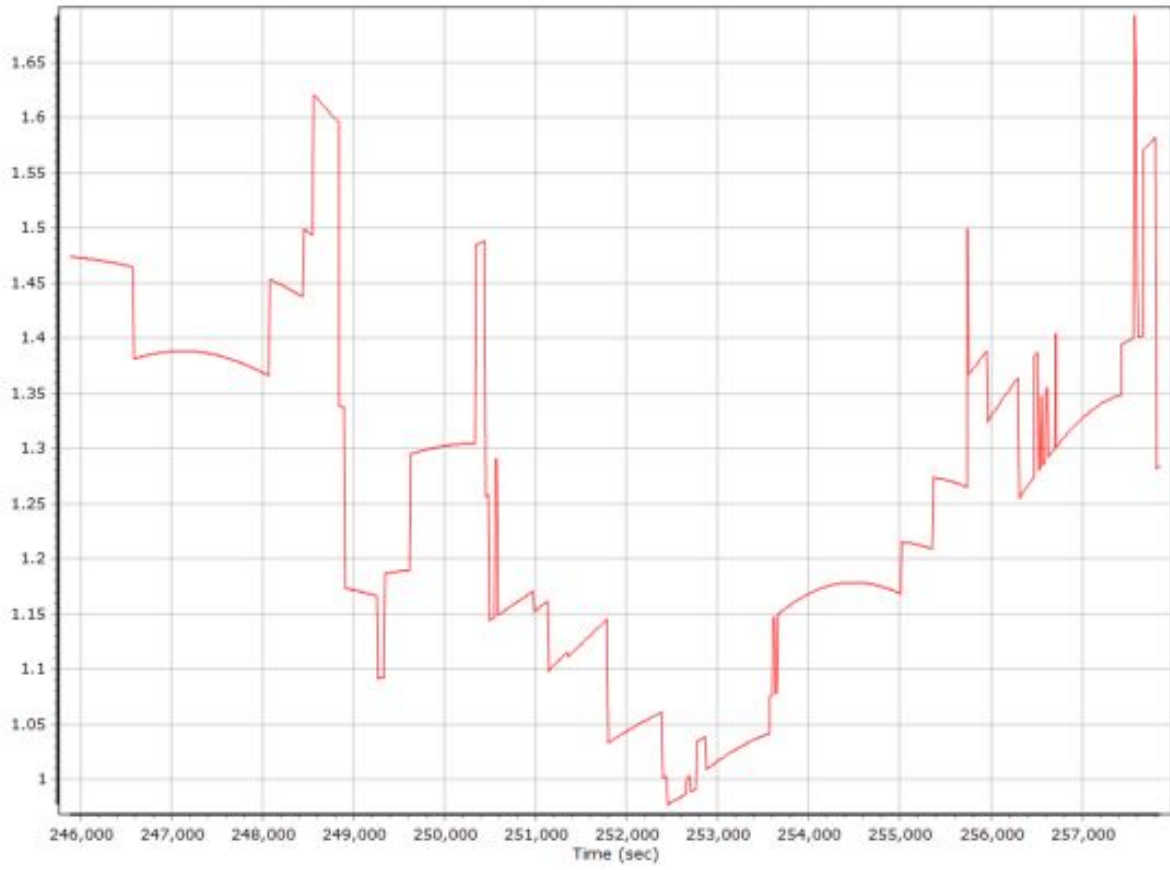
Number of Satellites



Forward/Reverse Separation

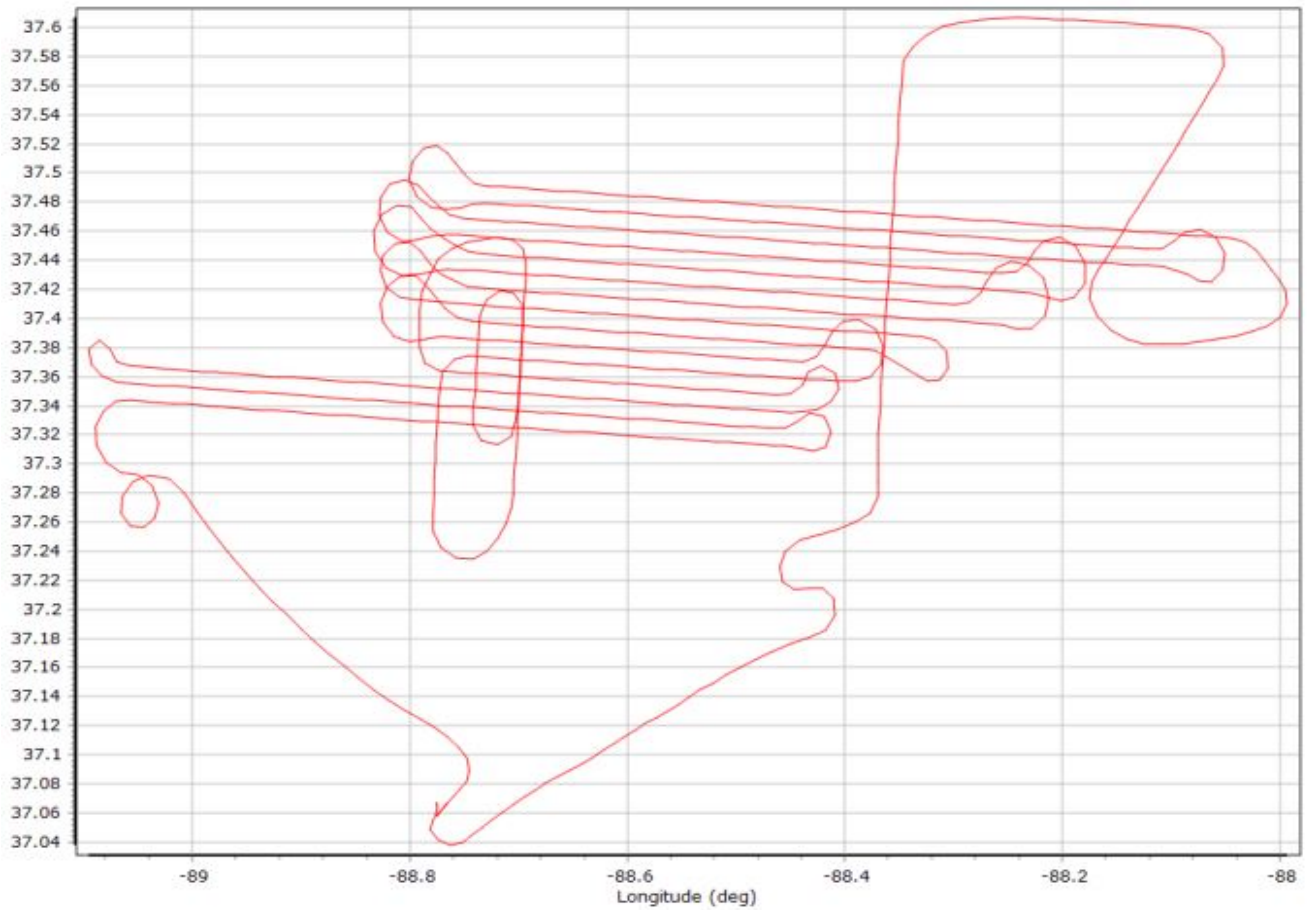


PDOP



120920a448.docx QC Report - 6/28/2021 11:22:53
 Smoothed Trajectory Information

Top View

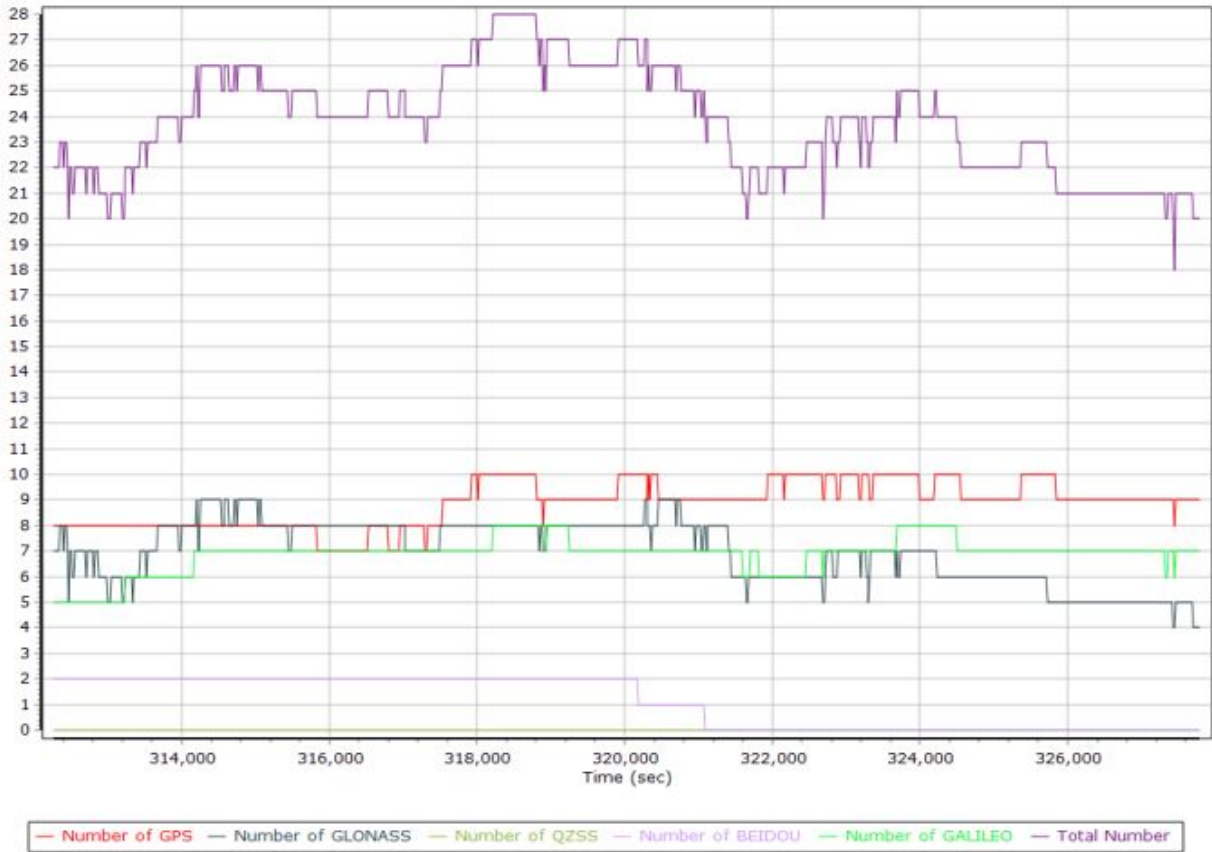


GNSS QC

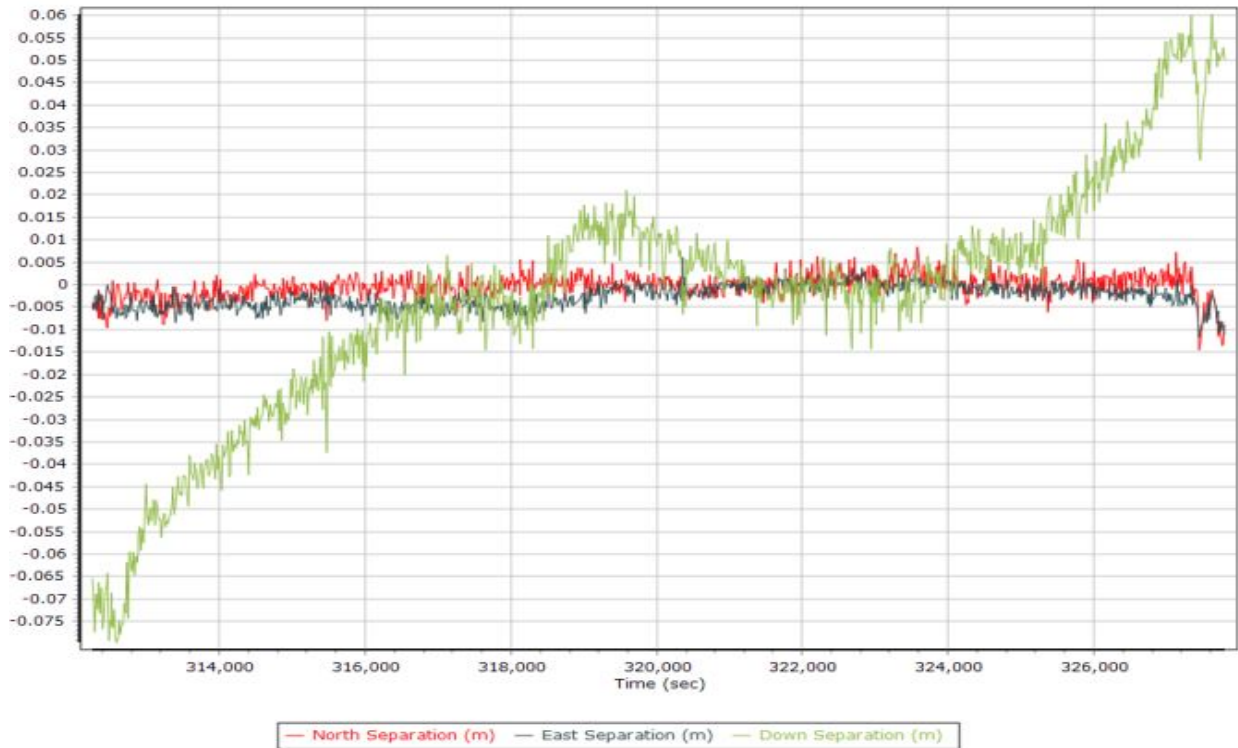
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	3	10	9
Number of GLONASS SV	4	9	7
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	1
Number of GALILEO SV	3	8	7
Total number of SV	12	28	24
PDOP	0.99	1.75	1.12
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

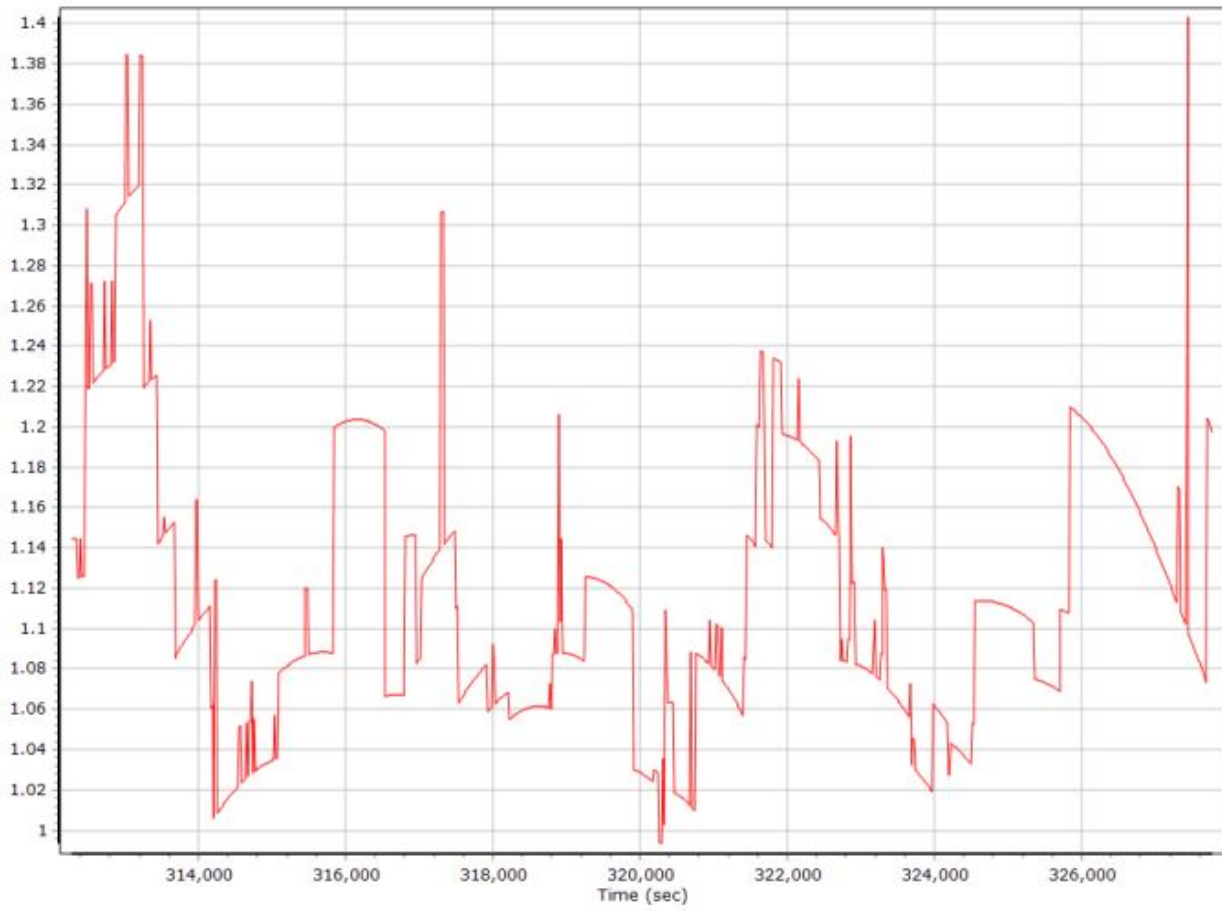
Number of Satellites



Forward/Reverse Separation

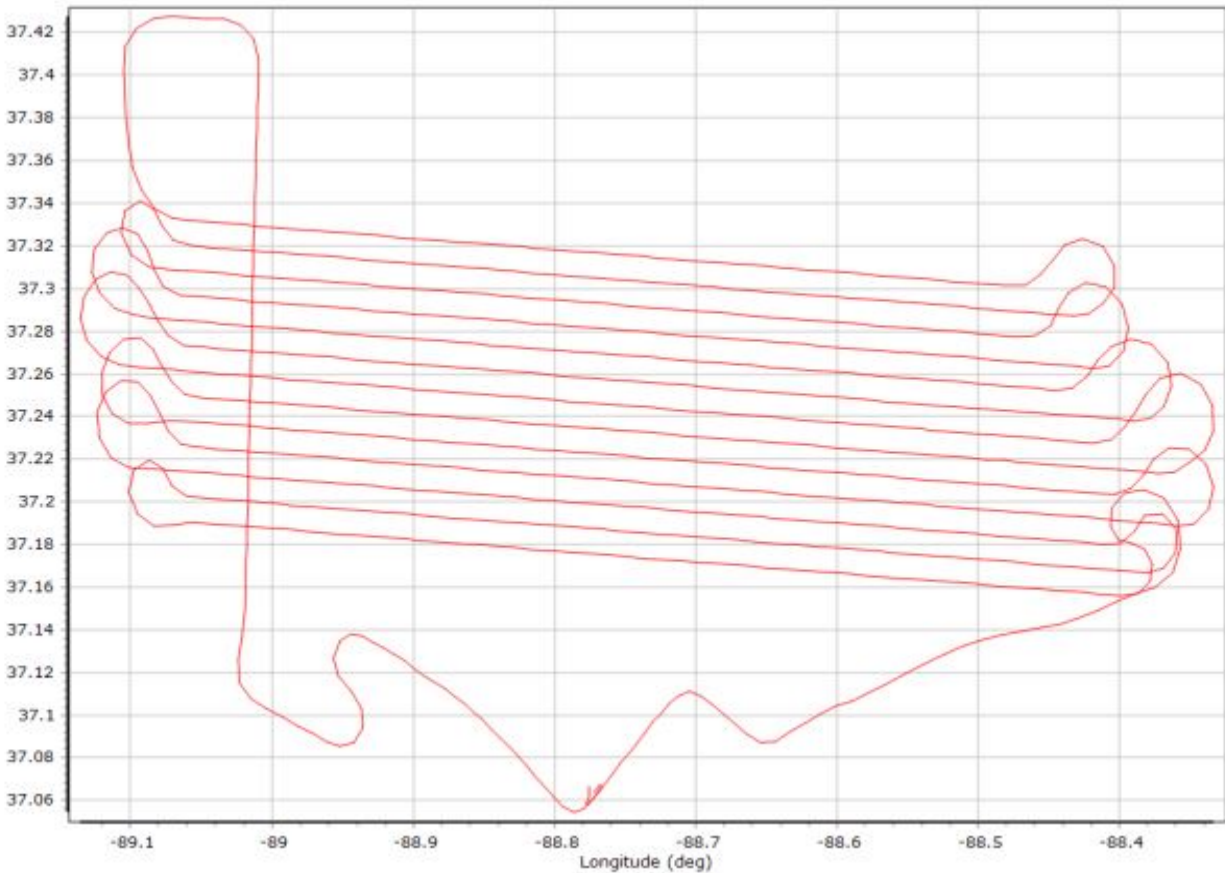


PDOP



120920b448.docx QC Report - 6/28/2021 11:38:44
Smoothed Trajectory Information

Top View



GNSS QC

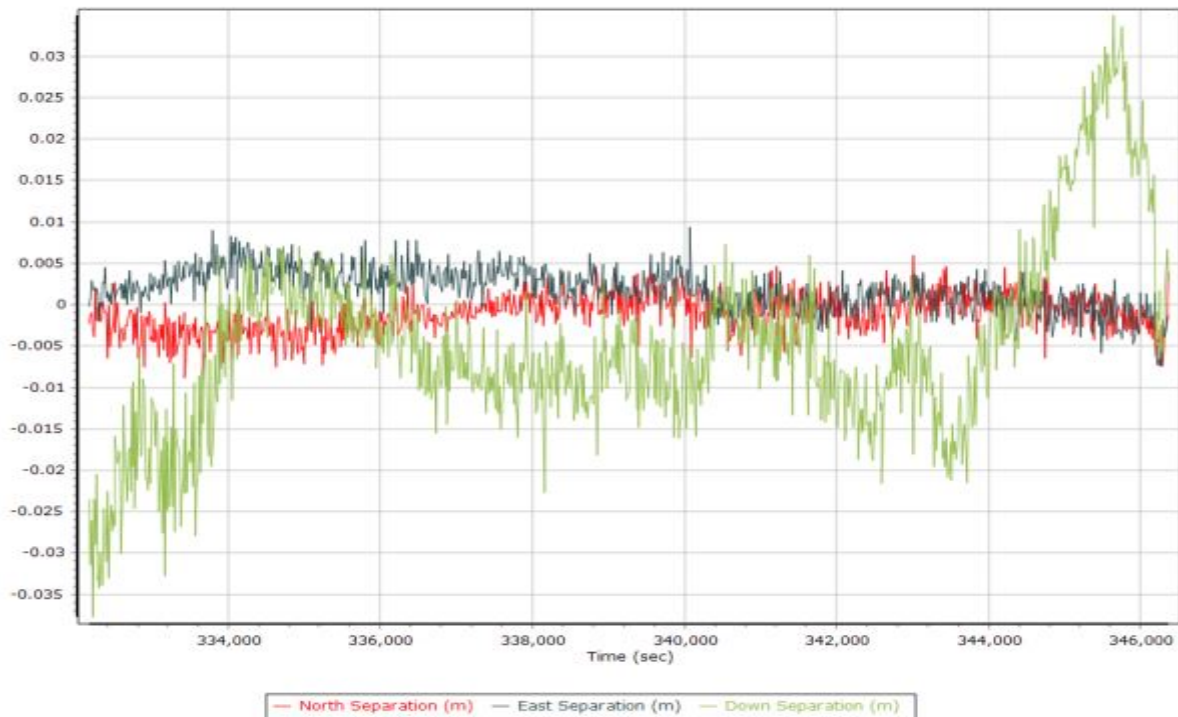
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline length (km)	0.00	0.00	
Number of GPS SV	6	10	8
Number of GLONASS SV	3	7	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	2	1
Number of GALILEO SV	5	8	6
Total number of SV	16	24	20
PDOP	1.04	1.68	1.21
QC Solution Gaps	0.00	0.00	
Solution Type	Fixed	Float	No solution
Epoch (sec)	14615.00	0.00	0.00
Percentage	100.00	0.00	0.00

Number of Satellites



Forward/Reverse Separation



PDOP

