

# **Block\_1\_IA North Central\_2020\_D20 Lidar 2020 Final Report**

Report Produced for U.S. Geological Survey

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## Overview

This task order is for a spring/summer 2020 leaf-off lidar survey to be collected over a primary Defined Project Area (DPA) in the state of Iowa of approximately 19,737 square miles, including the counties of: Boone, Buena Vista, Butler, Calhoun, Carroll, Cerro Gordo, Clay,, Dallas, Dickinson, Emmet, Floyd, Franklin, Greene, Grundy, Guthrie, Hamilton, Hancock, Hardin, Howard, Humboldt, Jasper, Kossuth, Marshall, Mitchell, Osceola, Palo Alto, Pocahontas, Polk, Sac, Story, Tama, Webster, Winnebago, Worth and Wright. This project will support the National Resources Conservation Service (NRCS) high resolution elevation enterprise program, the Iowa Department of Agriculture and Land Stewardship (IDALS) Iowa Flood Plain program, and the 3DEP mission. Block 1 of North Central Iowa was planned for the acquisition, processing, and derivative products of lidar data to be collected at an QL2 aggregate nominal pules spacing (ANPS) of  $\leq 0.71$  meters. Approximately 6775 square miles of Block 1 referred to as Block\_1\_IA North Central\_2020\_D20 Lidar 2019 was acquired in the spring of 2020. Block 1 Iowa North Central project area consists of 13 Iowa counties; Osceola, Dickinson, Clay, Emmet, Palo Alto, Kossuth, Winnebago, Hancock, Worth, Cerro Gordo, Mitchell, Floyd, and Howard. The condition of the ground was good during the collection of the survey.

Acquisition of the IA North Central DPA was broken out to three subcontractors in the following manner.

Contractor	Number of Flight Days	Square Miles Flown
Aerial Surveys, International	15	~12,411
SurvTech Solutions	4	~2,889
TAC	13	~4,437

Table 1: Subcontractor Days of Flight and Square Miles Flown

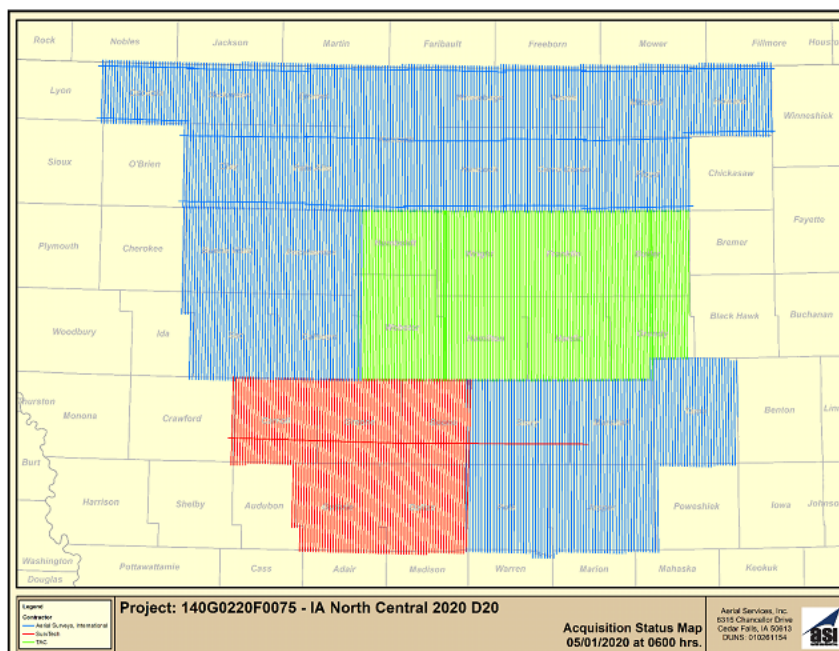


Figure 1: Iowa North Central DPA Subcontractor Breakout

The LiDAR data for Block 1 Iowa North Central was processed and classified according to project specifications. Detailed breaklines, bare earth Digital Elevation Models (DEMs), and Intensity Images were produced for the Block 1 Project area. Data was formatted into tiles with each tile covering an area of 1000 meters by 1000 meters. A total of 17,819 LAS files, 17,819 DEMs, and 17,819 Intensity Images were produced for the project, encompassing the Block 1 project area of approximately 6775 square miles and formatted into 17,819 total tiles.

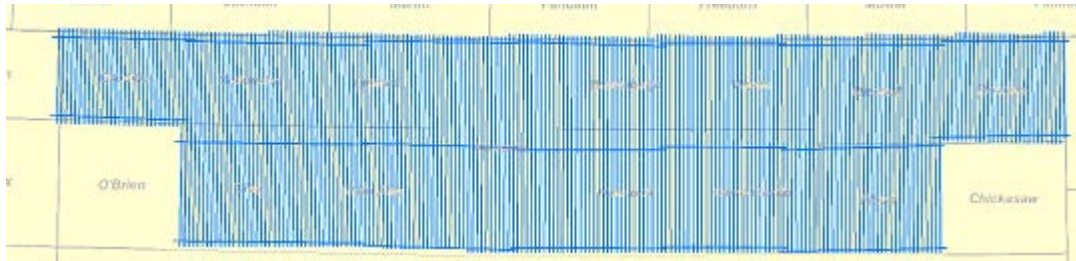


Figure 2: Block 1 Iowa North Central Breakout

## Project team

Aerial Services, Inc. (ASI) served as the prime contractor for the project. In addition to project management, ASI was responsible for LAS filtration of the entire Block 1 project area. ASI also preformed bare earth cleanup, hydro collection for 3389 of square miles of the Block 1 project area. ASI produced the LiDAR products; Digital Elevation Model (DEM) production, Intensity Image production, and quality assurance for the entire Block 1 project area. Subcontractor: Aerial Surveys International, LLC was responsible for LiDAR acquisition and calibration for the entire 6775 square mile area of the Block 1 project area. Subcontractor: Michael Backer International manually performed bare earth cleanup, and collected hydro for approximately 3386 square miles of the Block 1 project area. All follow-on processing was completed by the prime contractor.

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

## Survey area

The project area addressed by this report falls within the Block 1 Iowa North Central project area consists of 13 Iowa counties; Osceola, Dickinson, Clay, Emmet, Palo Alto, Kossuth, Winnebago, Hancock, Worth, Cerro Gordo, Mitchell, Floyd, and Howard.

## Date of survey

LiDAR acquisition for Block 1 Iowa North Central was conducted between the dates of April 4, 2020 to April 27, 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:** Universal Transverse Mercator (UTM) Zone 15 North.

**Units:** Horizontal units are in meters, Vertical units are in meters.

**Geoid Model:** Geoid12B

### Lidar vertical accuracy

For the Block 1 IA North Central project, the tested RMSEz of the classified LiDAR data for checkpoints in non-vegetated terrain equaled 0.035 meters compared with the 10 cm specification: The 95% confidence value of NVA of the classified LiDAR data computed using  $RMSEz \times 1.96$  and was found to equal 0.068 meters compared with the 0.196 meter specification.

For the Block 1 IA North Central project, the tested VVA of the classified LiDAR data computed using the 95th percentile was equal to 0.1 meters, compared with the 0.294 meter specification.

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

100 % of Totals	# of Points	RMSEz NVA (m)	NVA-Non-vegetated Vertical Accuracy ((RMSEz x 1.9600) m)	Mean (m)	Median (m)	Skew	Std Dev (m)	Min (m)	Max (m)	Kurtosis
NVA	141	0.035	0.068	-0.006	-0.010	0.015	0.034	-0.100	0.090	-0.025

Table 2: 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
- Swath separation Images
- Project Report (Acquisition, Processing, QC)
- Project Extent (Included in breakline GDB)
- Swaths Extents (File GDB)
- Tile Index (included in breakline GDB)

## Project tiling footprint

17,819 tiles, 17,819 LAS files, 17,819 DEM tiles, 17,819 Intensity Image tiles were delivered for the project. Each tile's extent is 1000 meter by 1000 meter. (See Appendix A for a complete listing of delivered tiles.)

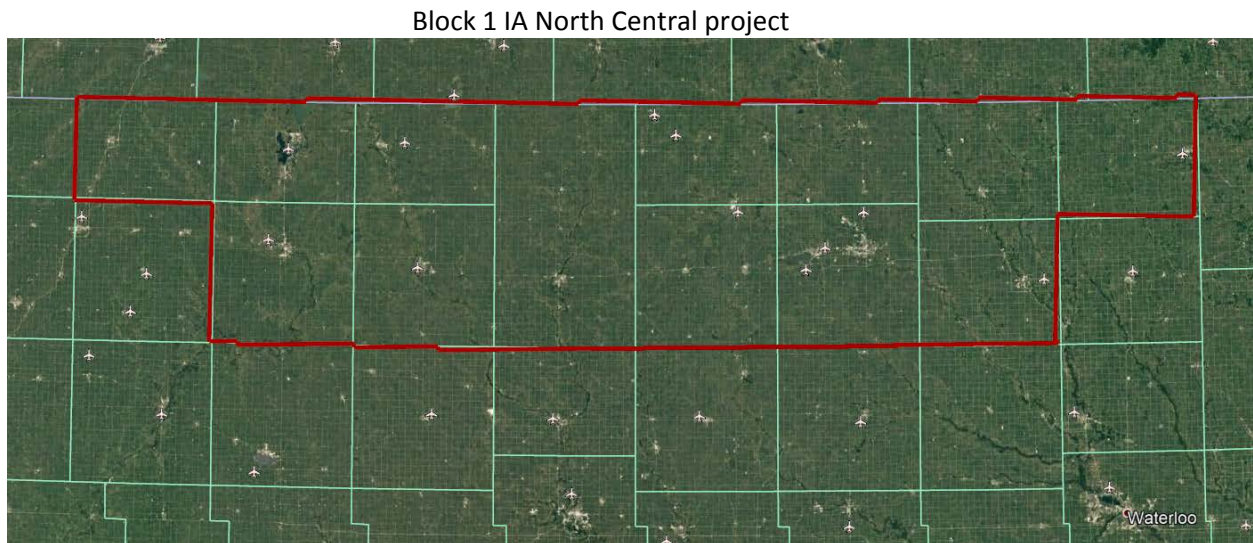


Figure 3: Block 1 IA North Central project Area of Interest



## Project Area Elevation Model

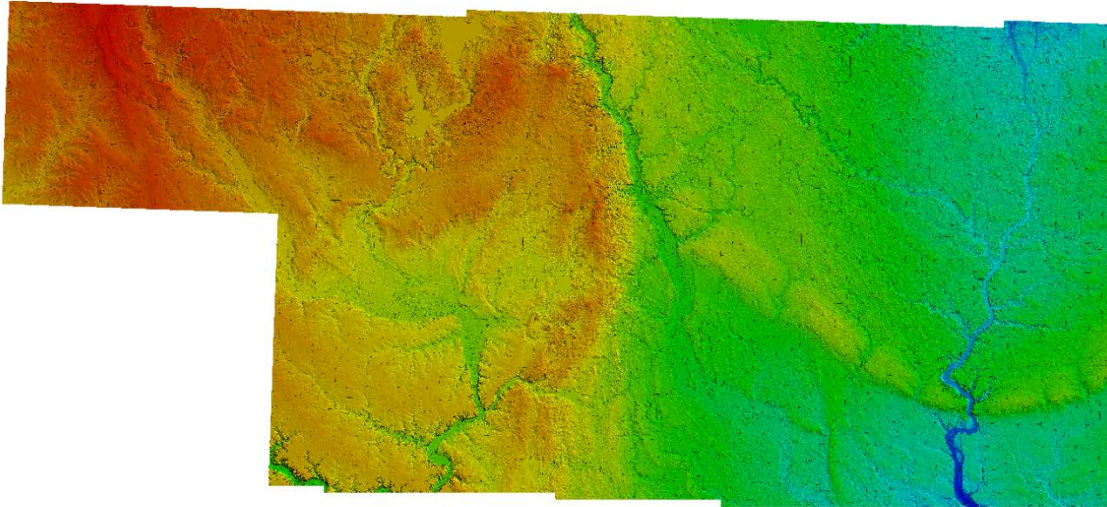


Figure 4: Western section of Block 1 IA North Central project Elevation DEM

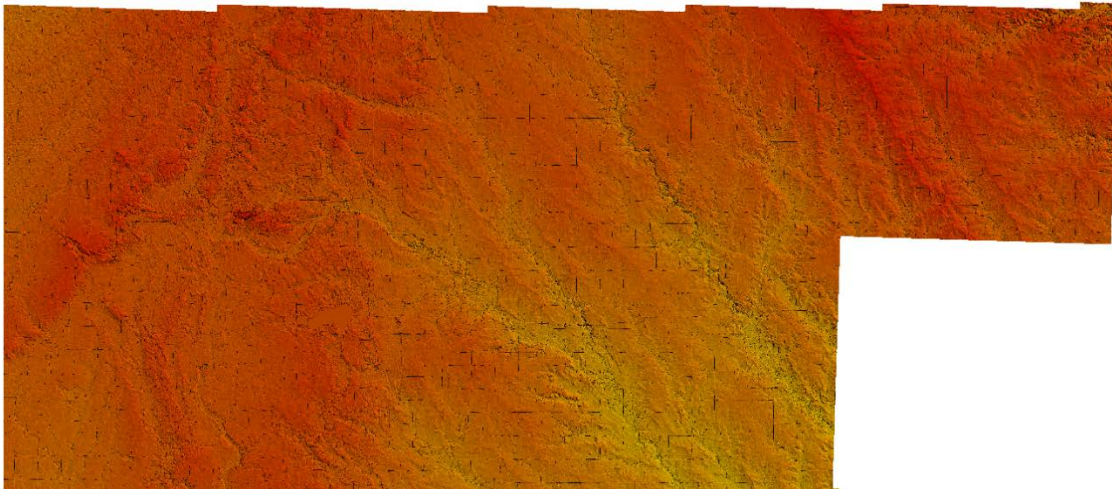


Figure 5: Eastern section of Block 1 IA North Central project Elevation DEM



## ***Aerial Surveys International, LLC LiDAR Acquisition Details and System parameters***

Sub Contractor Aerial Services, Inc. served as prime contractor for the Block 1 IA North Central project and preformed the LiDAR Acquisition and Calibration for Iowa counties; Osceola, Dickinson, Clay, Emmet, Palo Alto, Kossuth, Winnebago, Hancock, Worth, Cerro Gordo, Mitchell, Floyd, and Howard.

The following image is of the Planned Flight Line Overview for the 13 counties of Block1 IA North Central project area.



**Figure 6: Block 1 IA North Central planned flight line overview**

Aerial Surveys International, LLC planned 380 passes for the entire IA North Central project area as well as a series of cross flightlines for quality control during processing and are not included in delivery. Of the 380 passes Aerial Surveys International, LLC collected 233 passes for the Block 1 IA North Central project area. 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 FMC Flight Management Suite flight design software for direct integration into the aircraft flight navigation system.
- Planned flight lines; flight line numbers; and coverage area.
- Lidar coverage extended beyond all project borders to ensure necessary over-edge coverage appropriate for specific task order deliverables. A buffered AOI was provided by ASI.
- All airspace was coordinated and any controlled or restricted areas were pre coordinated and approval granted from the airspace owner.

## Lidar System parameters

Aerial Surveys International, LLC operated a Cessna 310 (Registration N7516Q) and a Cessna 402 (Registration N2JJ), both equipped with an Optech Galaxy Prime LiDAR system during the collection of this task order. Data was acquired between 04 April 2020 and 27 April 2020.

Item	Parameter
System	Optech Prime
Maximum Number of Returns per Pulse	7
Nominal Pulse Spacing (single swath), (m)	0.67
Nominal Pulse Density (single swath) (ppsm), (m)	2.21
Aggregate NPS (m) (if ANPS was designed to be met through single coverage, ANPS and NPS will be equal)	0.67
Aggregate NPD (m) (if ANPD was designed to be met through single coverage, ANPD and NPD will be equal)	2.21
Altitude (AGL meters)	2300
Approx. Flight Speed (knots)	160
Total Sensor Scan Angle (degrees)	46
Scan Rate (hz)	63
Scanner Pulse Rate (kHz)	400
Did the Sensor Operate with Multiple Pulses in The Air? (MPiA) (yes/no)	Yes
Beam Divergence (mRADs)	0.25 (1/e)
Nominal Swath Width on the Ground (m)	1953
Swath Overlap (%)	30
Computed Down Track spacing (m) per beam	0.69
Computed Cross Track Spacing (m) per beam	0.69
Maximum Number of Returns per Pulse	Optech Prime

Table 3: Aerial Surveys International, LLC Lidar System Parameters

## **Calibration Report**

### **Acquisition Control**

Aerial Surveys International, LLC conducted the survey using Applanix PPRTX for processing the GPS/IMU data. Trimble CenterPoint® RTX™ is a proprietary GPS, GLONASS, BeiDou, and QZSS enabled technology that provides high-accuracy GNSS positioning worldwide without the use of traditional local base stations or a VRS network. By combining real-time data from a global reference station infrastructure with innovative positioning and compression algorithms, Trimble RTX technology computes centimeter-level positions based on satellite orbit and clock information.

### **Airborne GPS Kinematic**

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

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

### **Generation and Calibration of Laser Points (raw data)**

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

Subsequently the mission points are output using LMS Pro, initially with default values from LMS Pro 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 7: Block 1 IA North Central project Lidar swath coverage.

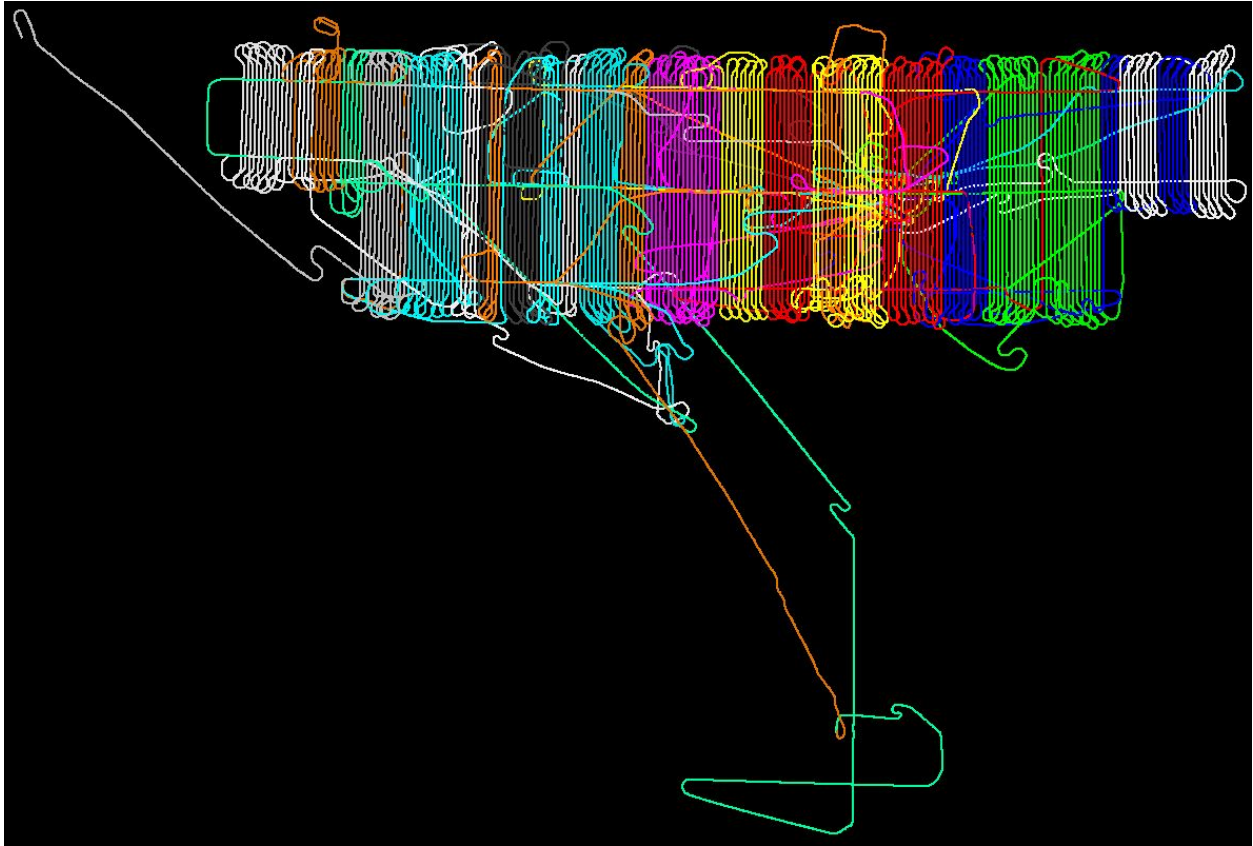


Figure 8: Block 1 IA North Central project Combined project SBET



Figure 9: shows the combined trajectory of the flightlines by mission over Block 1 IA North Central project area.

Table 4 is a listing of Flightlines and corresponding, Lift\_ID, Date, Point Source ID, Scanner, and adjusted GPS Start and End times.

Name	Lift_ID	Date	PT Source ID	Scanner	Start Time	End Time
20200404_190945	20200404_F1_SN386	4/4/2020	1001	Optech Prime	270062584.910233	270063502.599267
20200404_192049	20200404_F1_SN442	4/4/2020	2001	Optech Prime	270063249.267647	270063546.894290
20200404_193051	20200404_F1_SN442	4/4/2020	2002	Optech Prime	270063851.492333	270064303.188069
20200404_193630	20200404_F1_SN386	4/4/2020	1002	Optech Prime	270064189.535545	270065065.782085
20200404_194303	20200404_F1_SN442	4/4/2020	2003	Optech Prime	270064582.815436	270065034.281188
20200404_195505	20200404_F1_SN442	4/4/2020	2004	Optech Prime	270065305.211692	270065759.908305
20200404_200657	20200404_F1_SN442	4/4/2020	2005	Optech Prime	270066017.135852	270066466.781525
20200404_201857	20200404_F1_SN442	4/4/2020	2006	Optech Prime	270066736.882039	270067171.029379
20200404_202046	20200404_F1_SN386	4/4/2020	1003	Optech Prime	270066845.747729	270067753.023092
20200404_203044	20200404_F1_SN442	4/4/2020	2007	Optech Prime	270067444.120680	270067883.619426
20200404_203950	20200404_F1_SN386	4/4/2020	1004	Optech Prime	270067989.549482	270068842.487662
20200404_204146	20200404_F1_SN442	4/4/2020	2008	Optech Prime	270068105.984443	270068527.239174
20200404_205311	20200404_F1_SN442	4/4/2020	2009	Optech Prime	270068791.213446	270069233.237587
20200404_205743	20200404_F1_SN386	4/4/2020	1005	Optech Prime	270069063.479936	270069975.464193
20200404_210543	20200404_F1_SN442	4/4/2020	2010	Optech Prime	270069543.077078	270069969.427623
20200404_211647	20200404_F1_SN386	4/4/2020	1006	Optech Prime	270070207.358675	270071062.194602
20200404_211713	20200404_F1_SN442	4/4/2020	2011	Optech Prime	270070233.021601	270070657.431467
20200404_212824	20200404_F1_SN442	4/4/2020	2012	Optech Prime	270070903.521472	270071332.277350
20200404_213409	20200404_F1_SN386	4/4/2020	1007	Optech Prime	270071249.493452	270072143.031761
20200404_213936	20200404_F1_SN442	4/4/2020	2013	Optech Prime	270071576.186947	270072005.483123
20200404_215039	20200404_F1_SN442	4/4/2020	2014	Optech Prime	270072239.070509	270072662.510448
20200404_215235	20200404_F1_SN386	4/4/2020	1008	Optech Prime	270072354.501057	270073209.456185
20200404_220233	20200404_F1_SN442	4/4/2020	2015	Optech Prime	270072953.190554	270073382.926700
20200404_220948	20200404_F1_SN386	4/4/2020	1009	Optech Prime	270073387.888160	270074273.657026
20200404_221329	20200404_F1_SN442	4/4/2020	2016	Optech Prime	270073608.857228	270074040.863829
20200404_222418	20200404_F1_SN442	4/4/2020	2017	Optech Prime	270074258.167443	270074701.481654
20200404_222809	20200404_F1_SN386	4/4/2020	1010	Optech Prime	270074489.487954	270075352.306725

20200404_223520	20200404_F1_SN442	4/4/2020	2018	Optech Prime	270074919.565486	270075343.620394
20200405_003401	20200405_F1_SN442	4/5/2020	2019	Optech Prime	270082041.268603	270082482.142812
20200405_004515	20200405_F1_SN442	4/5/2020	2020	Optech Prime	270082714.900213	270083152.468759
20200405_005248	20200405_F1_SN386	4/5/2020	1011	Optech Prime	270083168.000859	270084034.703362
20200405_005606	20200405_F1_SN442	4/5/2020	2021	Optech Prime	270083366.256875	270083798.629040
20200405_010723	20200405_F1_SN442	4/5/2020	2022	Optech Prime	270084042.563748	270084481.086929
20200405_011047	20200405_F1_SN386	4/5/2020	1012	Optech Prime	270084246.952986	270085127.143788
20200405_011840	20200405_F1_SN442	4/5/2020	2023	Optech Prime	270084719.515243	270085153.617199
20200405_012844	20200405_F1_SN386	4/5/2020	1013	Optech Prime	270085323.939793	270086176.118990
20200405_012960	20200405_F1_SN442	4/5/2020	2024	Optech Prime	270085399.892176	270085834.419090
20200405_014106	20200405_F1_SN442	4/5/2020	2025	Optech Prime	270086065.980732	270086497.016838
20200405_014702	20200405_F1_SN386	4/5/2020	1014	Optech Prime	270086421.936446	270087301.967119
20200405_015332	20200405_F1_SN442	4/5/2020	2026	Optech Prime	270086812.427163	270087228.294897
20200405_020430	20200405_F1_SN442	4/5/2020	2027	Optech Prime	270087470.448925	270087892.808178
20200405_020508	20200405_F1_SN386	4/5/2020	1015	Optech Prime	270087508.375339	270088353.542746
20200405_021528	20200405_F1_SN442	4/5/2020	2028	Optech Prime	270088128.065689	270088543.463414
20200405_022252	20200405_F1_SN386	4/5/2020	1016	Optech Prime	270088572.423854	270089438.856103
20200405_022639	20200405_F1_SN442	4/5/2020	2029	Optech Prime	270088799.290531	270089448.325415
20200405_024031	20200405_F1_SN386	4/5/2020	1017	Optech Prime	270089631.401026	270090476.753200
20200405_025824	20200405_F1_SN386	4/5/2020	1018	Optech Prime	270090703.626096	270091552.163817
20200405_031603	20200405_F1_SN386	4/5/2020	1019	Optech Prime	270091762.792853	270092611.630383
20200405_033402	20200405_F1_SN386	4/5/2020	1020	Optech Prime	270092842.214015	270093685.240012
20200405_035836	20200405_F1_SN386	4/5/2020	1022	Optech Prime	270094315.626479	270095178.932063
20200405_041636	20200405_F1_SN386	4/5/2020	1023	Optech Prime	270095395.997485	270096245.964823
20200405_145117	20200405_F2_SN442	4/5/2020	2030	Optech Prime	270133477.290114	270134331.786518
20200405_151005	20200405_F2_SN442	4/5/2020	2031	Optech Prime	270134605.222720	270135472.316587
20200405_152535	20200405_F2_SN386	4/5/2020	1024	Optech Prime	270135534.705824	270136398.463474
20200405_152825	20200405_F2_SN442	4/5/2020	2032	Optech Prime	270135705.163597	270136556.483674
20200405_154525	20200405_F2_SN386	4/5/2020	1025	Optech Prime	270136725.140444	270137601.147760
20200405_154701	20200405_F2_SN442	4/5/2020	2033	Optech Prime	270136820.812658	270137695.512827
20200405_160411	20200405_F2_SN386	4/5/2020	1026	Optech Prime	270137851.032152	270138722.549539



20200405_160617	20200405_F2_SN442	4/5/2020	2034	Optech Prime	270137977.090677	270138831.976604
20200405_162213	20200405_F2_SN386	4/5/2020	1027	Optech Prime	270138933.334687	270139798.535595
20200405_162451	20200405_F2_SN442	4/5/2020	2035	Optech Prime	270139090.909471	270139959.673696
20200405_164006	20200405_F2_SN386	4/5/2020	1028	Optech Prime	270140006.400011	270140869.648995
20200405_164326	20200405_F2_SN442	4/5/2020	2036	Optech Prime	270140205.588685	270141072.347650
20200405_165819	20200405_F2_SN386	4/5/2020	1029	Optech Prime	270141098.502952	270141958.480451
20200405_170252	20200405_F2_SN442	4/5/2020	2037	Optech Prime	270141371.604748	270142227.726755
20200405_171545	20200405_F2_SN386	4/5/2020	1030	Optech Prime	270142145.149167	270143020.212962
20200405_172114	20200405_F2_SN442	4/5/2020	2038	Optech Prime	270142474.347043	270143336.365276
20200405_173328	20200405_F2_SN386	4/5/2020	1031	Optech Prime	270143207.921687	270144054.509425
20200405_173924	20200405_F2_SN442	4/5/2020	2039	Optech Prime	270143563.876260	270144412.071260
20200405_175101	20200405_F2_SN386	4/5/2020	1032	Optech Prime	270144260.547428	270145128.699140
20200405_180329	20200405_F2_SN442	4/5/2020	2041	Optech Prime	270145009.224948	270145869.978127
20200405_180844	20200405_F2_SN386	4/5/2020	1033	Optech Prime	270145324.389729	270146163.090970
20200405_182135	20200405_F2_SN442	4/5/2020	2042	Optech Prime	270146094.958666	270146946.364808
20200405_182617	20200405_F2_SN386	4/5/2020	1034	Optech Prime	270146376.825983	270147264.497813
20200405_183937	20200405_F2_SN442	4/5/2020	2043	Optech Prime	270147177.116574	270148042.850680
20200405_184450	20200405_F2_SN386	4/5/2020	1035	Optech Prime	270147489.910361	270148309.327244
20200405_190128	20200405_F2_SN386	4/5/2020	1036	Optech Prime	270148488.439312	270149375.107164
20200405_191901	20200405_F2_SN386	4/5/2020	1037	Optech Prime	270149540.936057	270150385.494829
20200405_212317	20200405_F3_SN442	4/5/2020	2044	Optech Prime	270156997.262098	270157869.428703
20200405_212947	20200405_F3_SN386	4/5/2020	1038	Optech Prime	270157386.638314	270158290.031244
20200405_214832	20200405_F3_SN386	4/5/2020	1039	Optech Prime	270158511.788645	270159388.905119
20200405_220704	20200405_F3_SN386	4/5/2020	1040	Optech Prime	270159624.195262	270160523.766649
20200405_220909	20200405_F3_SN442	4/5/2020	2045	Optech Prime	270159748.924776	270160617.569228
20200405_222628	20200405_F3_SN386	4/5/2020	1041	Optech Prime	270160788.243966	270161659.698512
20200405_222721	20200405_F3_SN442	4/5/2020	2046	Optech Prime	270160840.799230	270161711.194233
20200405_224439	20200405_F3_SN386	4/5/2020	1042	Optech Prime	270161879.049967	270162778.086633
20200405_224518	20200405_F3_SN442	4/5/2020	2047	Optech Prime	270161918.180628	270162784.019733
20200405_230252	20200405_F3_SN386	4/5/2020	1043	Optech Prime	270162972.432570	270163828.000320
20200405_230345	20200405_F3_SN442	4/5/2020	2048	Optech Prime	270163024.718712	270163901.880407

20200405_232031	20200405_F3_SN386	4/5/2020	1044	Optech Prime	270164031.163572	270164945.456000
20200405_232104	20200405_F3_SN442	4/5/2020	2049	Optech Prime	270164063.666680	270164915.507626
20200405_233851	20200405_F3_SN386	4/5/2020	1045	Optech Prime	270165130.865140	270165971.590381
20200405_233907	20200405_F3_SN442	4/5/2020	2050	Optech Prime	270165146.609405	270166037.988985
20200405_235655	20200405_F3_SN386	4/5/2020	1046	Optech Prime	270166215.078394	270167143.224587
20200405_235660	20200405_F3_SN442	4/5/2020	2051	Optech Prime	270166219.829681	270167078.941915
20200406_001434	20200405_F3_SN442	4/5/2020	2052	Optech Prime	270167274.365643	270168149.251384
20200406_001855	20200405_F3_SN386	4/5/2020	1047	Optech Prime	270167534.567863	270167614.321869
20200406_003201	20200405_F3_SN442	4/5/2020	2053	Optech Prime	270168321.009802	270169178.956689
20200406_003309	20200405_F3_SN386	4/5/2020	1049	Optech Prime	270168389.411561	270169227.961313
20200406_005028	20200405_F3_SN442	4/5/2020	2054	Optech Prime	270169428.262445	270170315.445858
20200406_005407	20200407_F1_SN386	4/7/2020	1050	Optech Prime	270169647.376155	270170607.889619
20200406_010812	20200405_F3_SN442	4/5/2020	2055	Optech Prime	270170492.130343	270171360.919341
20200407_181306	20200407_F1_SN442	4/7/2020	2056	Optech Prime	270318385.621832	270319277.113771
20200407_183059	20200407_F1_SN442	4/7/2020	2057	Optech Prime	270319458.889831	270320343.334256
20200407_183958	20200407_F1_SN386	4/7/2020	1051	Optech Prime	270319998.075134	270320922.309977
20200407_184908	20200407_F1_SN442	4/7/2020	2058	Optech Prime	270320548.235384	270321436.415062
20200407_185852	20200407_F1_SN386	4/7/2020	1052	Optech Prime	270321131.503405	270322032.651464
20200407_190707	20200407_F1_SN442	4/7/2020	2059	Optech Prime	270321627.297937	270322504.494856
20200407_191738	20200407_F1_SN386	4/7/2020	1053	Optech Prime	270322258.438510	270323161.301452
20200407_192452	20200407_F1_SN442	4/7/2020	2060	Optech Prime	270322691.766872	270323584.397118
20200407_193617	20200407_F1_SN386	4/7/2020	1054	Optech Prime	270323377.206117	270324273.577311
20200407_194307	20200407_F1_SN442	4/7/2020	2061	Optech Prime	270323786.927571	270324673.641592
20200407_195449	20200407_F1_SN386	4/7/2020	1055	Optech Prime	270324488.791858	270325367.044108
20200407_200119	20200407_F1_SN442	4/7/2020	2062	Optech Prime	270324878.837633	270325769.712503
20200407_201238	20200407_F1_SN386	4/7/2020	1056	Optech Prime	270325558.313108	270326455.214655
20200407_201904	20200407_F1_SN442	4/7/2020	2063	Optech Prime	270325943.931594	270326830.240423
20200407_203121	20200407_F1_SN386	4/7/2020	1057	Optech Prime	270326681.341908	270327573.378066
20200407_203701	20200407_F1_SN442	4/7/2020	2064	Optech Prime	270327020.688131	270327904.066166
20200407_205452	20200407_F1_SN442	4/7/2020	2065	Optech Prime	270328092.278347	270329007.138357
20200408_011502	20200408_F1_SN442	4/8/2020	2066	Optech Prime	270343701.602854	270344578.871656

20200408_013122	20200408_F1_SN386	4/8/2020	1061	Optech Prime	270344681.813854	270345595.874639
20200408_013303	20200408_F1_SN442	4/8/2020	2067	Optech Prime	270344782.522553	270345670.836921
20200408_015022	20200408_F1_SN386	4/8/2020	1062	Optech Prime	270345822.103194	270346712.304375
20200408_015147	20200408_F1_SN442	4/8/2020	2068	Optech Prime	270345906.994741	270346773.433415
20200408_020944	20200408_F1_SN386	4/8/2020	1063	Optech Prime	270346984.489042	270347893.655304
20200408_020953	20200408_F1_SN442	4/8/2020	2069	Optech Prime	270346993.072523	270347872.934401
20200408_022832	20200408_F1_SN386	4/8/2020	1064	Optech Prime	270348112.422377	270348997.668188
20200408_022844	20200408_F1_SN442	4/8/2020	2070	Optech Prime	270348123.995620	270348991.320065
20200408_024654	20200408_F1_SN386	4/8/2020	1065	Optech Prime	270349213.644629	270350104.106758
20200408_024800	20200408_F1_SN442	4/8/2020	2071	Optech Prime	270349280.144871	270350148.329804
20200408_030644	20200408_F1_SN442	4/8/2020	2072	Optech Prime	270350404.387344	270351281.889636
20200408_032514	20200408_F1_SN442	4/8/2020	2073	Optech Prime	270351513.921822	270352367.593829
20200408_034258	20200408_F1_SN442	4/8/2020	2074	Optech Prime	270352577.881122	270353476.718206
20200408_034535	20200408_F2_SN386	4/8/2020	1066	Optech Prime	270352735.088401	270353593.317476
20200408_040123	20200408_F1_SN442	4/8/2020	2075	Optech Prime	270353682.859549	270354543.887999
20200408_040336	20200408_F2_SN386	4/8/2020	1067	Optech Prime	270353816.135416	270354743.120636
20200408_042257	20200408_F2_SN386	4/8/2020	1068	Optech Prime	270354976.556101	270355833.134653
20200408_044054	20200408_F2_SN386	4/8/2020	1225	Optech Prime	270356053.677058	270356266.572641
20200408_235909	20200408_F3_SN386	4/8/2020	1069	Optech Prime	270425548.558934	270426364.563482
20200409_001436	20200409_F1_SN442	4/9/2020	2076	Optech Prime	270426476.339917	270427334.920485
20200409_003318	20200409_F1_SN442	4/9/2020	2077	Optech Prime	270427597.708841	270428529.120387
20200409_003542	20200408_F3_SN386	4/8/2020	1071	Optech Prime	270427741.623618	270428674.515615
20200409_005326	20200409_F1_SN442	4/9/2020	2078	Optech Prime	270428806.166729	270429662.170928
20200409_005556	20200408_F3_SN386	4/8/2020	1072	Optech Prime	270428955.701004	270429809.768625
20200409_011315	20200409_F1_SN442	4/9/2020	2079	Optech Prime	270429995.364384	270430922.153545
20200409_011347	20200408_F3_SN386	4/8/2020	1073	Optech Prime	270430026.933663	270430997.046949
20200409_013338	20200408_F3_SN386	4/8/2020	1074	Optech Prime	270431217.862813	270432074.610219
20200409_013415	20200409_F1_SN442	4/9/2020	2080	Optech Prime	270431255.101859	270432132.024893
20200409_015209	20200408_F3_SN386	4/8/2020	1075	Optech Prime	270432328.748796	270433168.542580
20200409_015558	20200409_F1_SN442	4/9/2020	2081	Optech Prime	270432557.758518	270433425.679456
20200410_145540	20200410_F1_SN386	4/10/2020	1076	Optech Prime	270565739.710227	270566006.196788

20200410_153032	20200410_F1_SN386	4/10/2020	1077	Optech Prime	270567831.954115	270568170.618992
20200410_153240	20200410_F1_SN442	4/10/2020	2082	Optech Prime	270567959.744970	270568206.995783
20200410_154002	20200410_F1_SN386	4/10/2020	1078	Optech Prime	270568401.718558	270568731.146420
20200410_155131	20200410_F1_SN386	4/10/2020	1079	Optech Prime	270569090.721488	270569948.229785
20200410_155441	20200410_F1_SN442	4/10/2020	2083	Optech Prime	270569281.157031	270570145.475169
20200410_161024	20200410_F1_SN386	4/10/2020	1080	Optech Prime	270570223.595233	270571146.164875
20200410_161426	20200410_F1_SN442	4/10/2020	2084	Optech Prime	270570465.766645	270571349.838782
20200410_163020	20200410_F1_SN386	4/10/2020	1081	Optech Prime	270571420.210163	270572277.469528
20200410_163348	20200410_F1_SN442	4/10/2020	2085	Optech Prime	270571627.505675	270572507.936930
20200410_164846	20200410_F1_SN386	4/10/2020	1082	Optech Prime	270572526.113864	270573457.746361
20200410_165214	20200410_F1_SN442	4/10/2020	2086	Optech Prime	270572733.837291	270573603.551163
20200410_170803	20200410_F1_SN386	4/10/2020	1083	Optech Prime	270573682.705115	270574543.270757
20200410_171050	20200410_F1_SN442	4/10/2020	2087	Optech Prime	270573850.366173	270574719.234850
20200410_172652	20200410_F1_SN386	4/10/2020	1084	Optech Prime	270574812.215035	270575732.835142
20200410_172945	20200410_F1_SN442	4/10/2020	2088	Optech Prime	270574984.508978	270575875.162568
20200410_174604	20200410_F1_SN386	4/10/2020	1085	Optech Prime	270575963.690334	270576816.049085
20200410_174915	20200410_F1_SN442	4/10/2020	2089	Optech Prime	270576155.465086	270577017.017286
20200410_180444	20200410_F1_SN386	4/10/2020	1086	Optech Prime	270577084.333214	270578016.606130
20200410_180821	20200410_F1_SN442	4/10/2020	2090	Optech Prime	270577301.480761	270578151.145452
20200410_182436	20200410_F1_SN386	4/10/2020	1087	Optech Prime	270578275.738119	270579129.477360
20200410_182626	20200410_F1_SN442	4/10/2020	2091	Optech Prime	270578386.182954	270579237.037990
20200410_184314	20200410_F1_SN386	4/10/2020	1088	Optech Prime	270579393.730374	270580330.762127
20200410_203135	20200410_F2_SN442	4/10/2020	2092	Optech Prime	270585894.937896	270586759.452123
20200410_204940	20200410_F2_SN442	4/10/2020	2093	Optech Prime	270586980.216661	270587843.680152
20200410_210712	20200410_F2_SN442	4/10/2020	2094	Optech Prime	270588031.547201	270588902.791927
20200410_212522	20200410_F2_SN442	4/10/2020	2095	Optech Prime	270589121.740794	270589989.379280
20200410_215739	20200410_F2_SN386	4/10/2020	1089	Optech Prime	270591059.160046	270591966.234279
20200410_221235	20200410_F3_SN442	4/10/2020	2096	Optech Prime	270591955.338778	270592328.617558
20200410_221611	20200410_F2_SN386	4/10/2020	1090	Optech Prime	270592171.252837	270593002.570241
20200410_222256	20200410_F3_SN442	4/10/2020	2097	Optech Prime	270592576.128061	270592968.130888
20200410_223329	20200410_F3_SN442	4/10/2020	2098	Optech Prime	270593208.669777	270593589.020004

20200410_223403	20200410_F2_SN386	4/10/2020	1091	Optech Prime	270593243.227513	270594133.999789
20200410_224406	20200410_F3_SN442	4/10/2020	2099	Optech Prime	270593845.542520	270594229.003548
20200410_225425	20200410_F3_SN442	4/10/2020	2100	Optech Prime	270594464.776490	270594851.938494
20200410_230208	20200410_F2_SN386	4/10/2020	1092	Optech Prime	270594928.499381	270595777.807178
20200410_230458	20200410_F3_SN442	4/10/2020	2101	Optech Prime	270595097.923824	270595472.298061
20200410_231522	20200410_F3_SN442	4/10/2020	2102	Optech Prime	270595721.534154	270596116.928137
20200410_231953	20200410_F2_SN386	4/10/2020	1093	Optech Prime	270595992.708525	270596866.907448
20200410_232641	20200410_F3_SN442	4/10/2020	2103	Optech Prime	270596400.671997	270596775.121278
20200410_233755	20200410_F3_SN442	4/10/2020	2104	Optech Prime	270597075.293849	270597455.754463
20200410_233806	20200410_F2_SN386	4/10/2020	1094	Optech Prime	270597085.709760	270597941.879514
20200410_234821	20200410_F3_SN442	4/10/2020	2105	Optech Prime	270597700.844548	270598083.835529
20200410_235615	20200410_F2_SN386	4/10/2020	1095	Optech Prime	270598174.715210	270599022.603047
20200410_235844	20200410_F3_SN442	4/10/2020	2106	Optech Prime	270598323.909400	270598705.154948
20200411_000905	20200410_F3_SN442	4/10/2020	2107	Optech Prime	270598945.223847	270599318.547678
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20200411_003256	20200410_F2_SN386	4/10/2020	1097	Optech Prime	270600375.821645	270601226.179808
20200411_005137	20200410_F2_SN386	4/10/2020	1098	Optech Prime	270601497.254516	270602380.035034
20200411_011001	20200410_F2_SN386	4/10/2020	1099	Optech Prime	270602601.107727	270603431.710515
20200419_204822	20200419_F1_SN386	4/19/2020	1121	Optech Prime	271364501.760756	271364913.051924
20200419_213539	20200419_F1_SN386	4/19/2020	1122	Optech Prime	271367339.444845	271367763.959281
20200419_214636	20200419_F1_SN386	4/19/2020	1123	Optech Prime	271367996.373745	271368382.189189
20200419_215827	20200419_F1_SN386	4/19/2020	1124	Optech Prime	271368707.070413	271369126.143731
20200419_220924	20200419_F1_SN386	4/19/2020	1125	Optech Prime	271369363.969495	271369746.369115
20200420_152703	20200420_F1_SN442	4/20/2020	2152	Optech Prime	271431622.823126	271432002.737637
20200420_153653	20200420_F1_SN442	4/20/2020	2153	Optech Prime	271432213.379413	271432605.581401
20200420_154710	20200420_F1_SN442	4/20/2020	2154	Optech Prime	271432830.316228	271433201.323533
20200420_155655	20200420_F1_SN442	4/20/2020	2155	Optech Prime	271433414.880958	271433806.863037
20200420_160640	20200420_F1_SN442	4/20/2020	2156	Optech Prime	271433999.830893	271434378.815044
20200420_161637	20200420_F1_SN442	4/20/2020	2157	Optech Prime	271434596.603403	271435000.933161
20200420_163808	20200420_F1_SN442	4/20/2020	2159	Optech Prime	271435887.579912	271436289.629089
20200421_175125	20200421_F1_SN386	4/21/2020	1145	Optech Prime	271526685.047250	271527556.092975

20200421_180955	20200421_F1_SN386	4/21/2020	1146	Optech Prime	271527794.963046	271528637.012609
20200421_182749	20200421_F1_SN386	4/21/2020	1147	Optech Prime	271528868.646174	271529871.582961
20200421_184815	20200421_F1_SN386	4/21/2020	1148	Optech Prime	271530094.704730	271530949.773844
20200421_190604	20200421_F1_SN386	4/21/2020	1149	Optech Prime	271531164.003670	271532101.566043
20200421_192508	20200421_F1_SN386	4/21/2020	1150	Optech Prime	271532308.289084	271533155.777055
20200421_194335	20200421_F1_SN386	4/21/2020	1151	Optech Prime	271533414.532619	271534353.691464
20200421_200813	20200421_F1_SN386	4/21/2020	1152	Optech Prime	271534893.257286	271535768.166326
20200421_202656	20200421_F1_SN386	4/21/2020	1153	Optech Prime	271536015.728737	271536935.041280
20200421_204550	20200421_F1_SN386	4/21/2020	1154	Optech Prime	271537149.546114	271538029.931401
20200421_210425	20200421_F1_SN386	4/21/2020	1155	Optech Prime	271538265.006076	271539197.606921
20200421_212331	20200421_F1_SN386	4/21/2020	1156	Optech Prime	271539411.166210	271540274.474773
20200421_233216	20200421_F2_SN386	4/21/2020	1157	Optech Prime	271547136.477520	271547323.546429
20200421_235524	20200421_F2_SN386	4/21/2020	1158	Optech Prime	271548524.277943	271549410.611592
20200422_002549	20200421_F2_SN386	4/21/2020	1159	Optech Prime	271550349.188258	271550735.564600
20200422_003617	20200421_F2_SN386	4/21/2020	1160	Optech Prime	271550976.751632	271551354.831045
20200422_004614	20200421_F2_SN386	4/21/2020	1161	Optech Prime	271551574.252954	271551965.085454
20200422_005560	20200421_F2_SN386	4/21/2020	1162	Optech Prime	271552159.636514	271552545.122779
20200422_014457	20200422_F1_SN386	4/22/2020	1165	Optech Prime	271555096.791359	271555982.454603
20200422_020313	20200422_F1_SN386	4/22/2020	1166	Optech Prime	271556193.119061	271557091.164783
20200422_022351	20200422_F1_SN386	4/22/2020	1167	Optech Prime	271557431.189495	271558292.806342

Table 4: Block 1 IA North Central ASInt Project flightline by Mission



## Boresight and Relative Accuracy

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

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

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

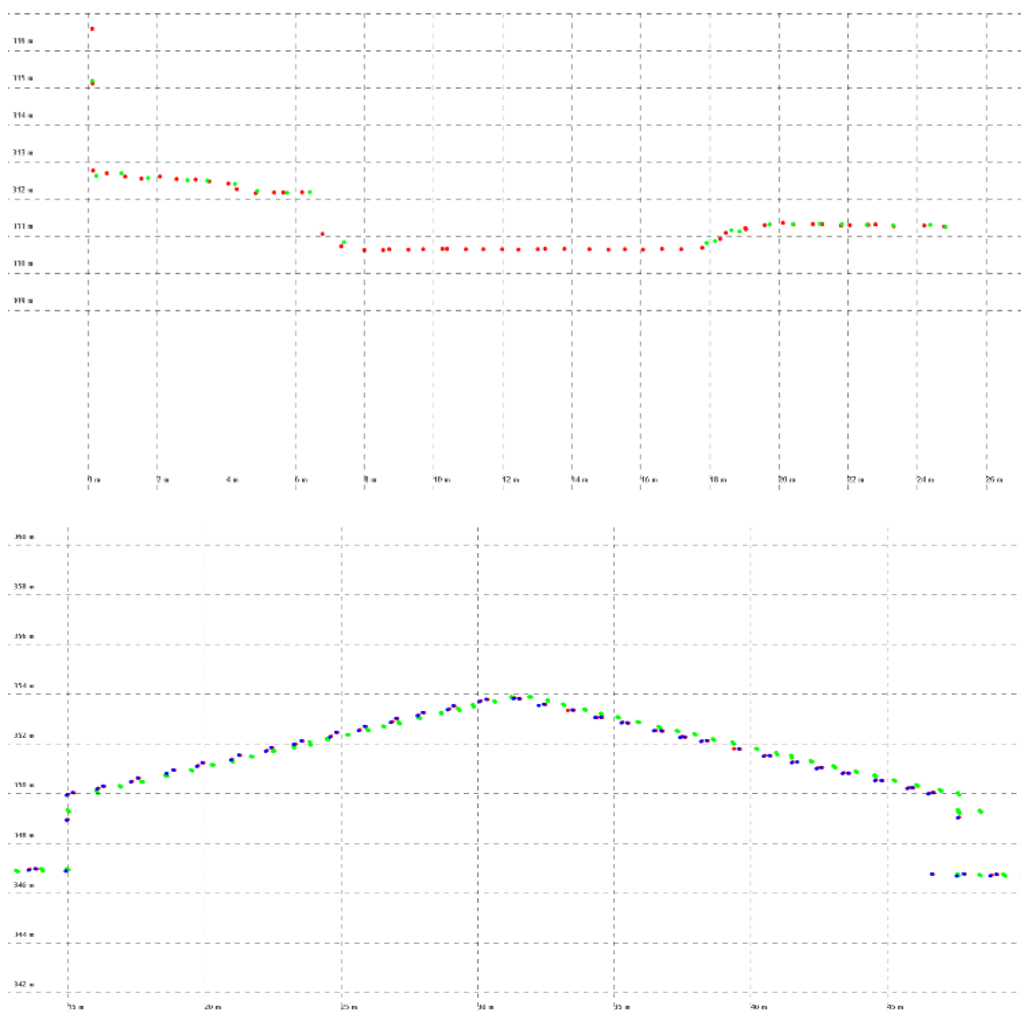


Figure 10: Profile views showing correct roll and pitch adjustments

### Final Calibration Verification

Prairie Engineers conducted the survey throughout the area of interest. 82 ground control points (GCPs) were used to test the accuracy of the calibrated swath data. These 82 GCPs were available to use as control in case the swath data exhibited any biases which would need to be adjusted or removed. The coordinates of all GCPs are provided in the figure below. Surveyed ground control points (GCPs) and the accuracy results from testing the calibrated swath data against the GCPs is provided in Tables 5, 6, and 7. Ground control points (GCPs) vertical accuracy results no further adjustments to the swath data were required based on the accuracy results of the GCPs.

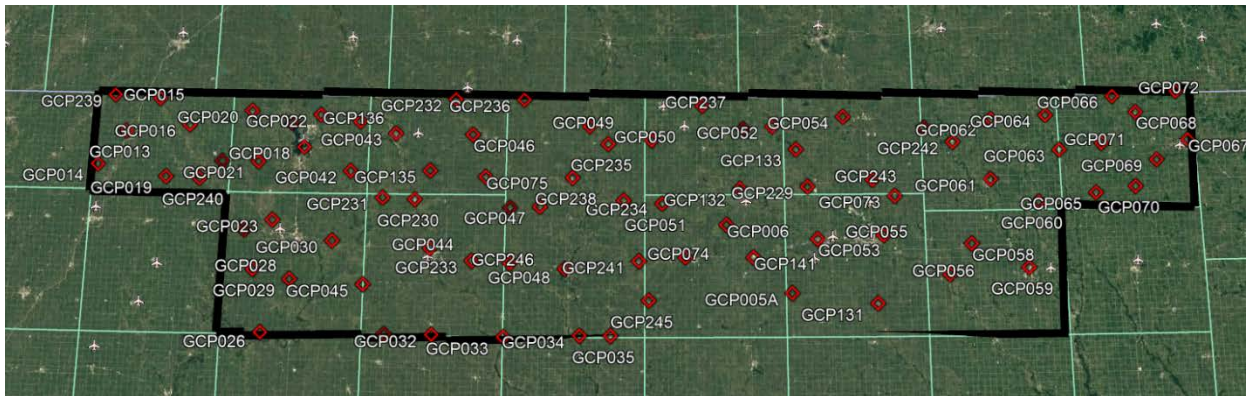


Figure 11: surveyed Ground Control Point Locations

Point ID	NAD83 (2011 adj) UTM Zone 15 N		NAVD88 (Geoid 12B)		Dz (M)
	Easting X (M)	Northing Y (M)	Z-Survey (M)	Z-LiDAR (M)	
GCP005A	461086.350	4762008.290	389.030	389.050	0.020
GCP006	443506.440	4780679.880	380.210	380.190	-0.020
GCP013	277075.360	4808862.300	461.560	461.570	0.010
GCP014	269494.280	4799800.970	457.970	457.940	-0.030
GCP015	286249.260	4817881.050	486.550	486.490	-0.060
GCP016	294806.180	4810337.520	472.830	472.840	0.010
GCP017	304342.850	4800033.420	449.150	449.130	-0.020
GCP018	327040.600	4803583.790	430.630	430.660	0.030
GCP019	288792.550	4795996.310	480.010	479.990	-0.020
GCP020	312197.180	4813940.830	455.690	455.680	-0.010
GCP021	314413.120	4799765.580	453.070	453.040	-0.030

GCP022	331511.990	4812517.350	437.690	437.700	0.010
GCP023	318767.110	4783626.000	410.830	410.830	0.000
GCP024	323462.690	4810370.180	435.400	435.390	-0.010
GCP025	311044.670	4781021.230	413.450	413.460	0.010
GCP026	316365.410	4753279.150	404.950	404.940	-0.010
GCP028	313790.710	4770285.180	430.380	430.350	-0.030
GCP029	323937.360	4767471.030	424.500	424.530	0.030
GCP030	335387.730	4777698.370	409.310	409.270	-0.040
GCP031	350108.450	4752376.690	401.630	401.640	0.010
GCP032	362969.910	4752044.690	370.840	370.830	-0.010
GCP033	382464.610	4751193.890	354.910	354.960	0.050
GCP034	403088.870	4751305.880	341.960	341.920	-0.040
GCP035	411492.190	4751193.550	354.710	354.710	0.000
GCP042	340126.010	4796747.940	436.640	436.630	-0.010
GCP043	352482.780	4807025.060	398.890	398.900	0.010
GCP044	362273.330	4775346.040	379.880	379.890	0.010
GCP045	344090.630	4765779.100	414.660	414.650	-0.010
GCP046	373841.490	4806368.270	387.680	387.670	-0.010
GCP047	392411.480	4786200.740	370.400	370.460	0.060
GCP048	399185.720	4769300.790	368.520	368.470	-0.050
GCP049	406260.080	4808303.330	351.380	351.320	-0.060
GCP050	423325.330	4804152.430	364.190	364.170	-0.020
GCP051	425999.590	4786641.410	374.740	374.750	0.010
GCP052	456736.290	4807643.630	392.600	392.610	0.010
GCP053	468383.040	4776553.310	374.680	374.720	0.040
GCP054	476455.730	4810187.720	384.440	384.460	0.020

GCP055	486513.250	4777396.910	328.620	328.620	0.000
GCP056	504328.020	4766606.920	305.740	305.740	0.000
GCP057	498830.660	4806916.520	362.980	362.960	-0.020
GCP058	510640.950	4774860.270	347.410	347.390	-0.020
GCP059	526096.510	4768275.250	305.460	305.450	-0.010
GCP060	529714.320	4786107.380	341.740	341.730	-0.010
GCP061	516704.590	4792453.230	356.190	356.160	-0.030
GCP062	517631.520	4809125.790	367.660	367.660	0.000
GCP063	536266.920	4800447.710	373.150	373.130	-0.020
GCP064	532907.630	4810121.450	393.190	393.190	0.000
GCP065	545806.010	4788479.600	362.240	362.260	0.020
GCP066	552067.020	4815326.370	377.320	377.290	-0.030
GCP067	572505.660	4803000.870	396.200	396.200	0.000
GCP068	558335.250	4810798.270	377.410	377.380	-0.030
GCP069	563326.360	4797511.810	365.470	365.460	-0.010
GCP070	556955.470	4790158.750	375.010	375.010	0.000
GCP071	548198.770	4802208.970	378.860	378.880	0.020
GCP072	570110.030	4816601.670	347.340	347.310	-0.030
GCP073	490004.720	4788098.410	344.710	344.680	-0.030
GCP074	432093.640	4771982.750	370.040	370.080	0.040
GCP075	377440.660	4794622.040	391.180	391.180	0.000
GCP131	484350.240	4759016.120	339.740	339.780	0.040
GCP132	447421.380	4790514.870	385.360	385.390	0.030
GCP133	463114.860	4801200.270	384.680	384.710	0.030
GCP134	384186.760	4786080.900	380.220	380.270	0.050
GCP135	362081.720	4796549.940	388.850	388.840	-0.010

GCP136	342478.950	4810466.230	457.110	457.110	0.000
GCP141	450692.760	4771781.560	369.920	369.950	0.030
GCP228	448693.690	4807061.180	395.950	395.980	0.030
GCP229	466035.090	4790893.430	368.920	368.910	-0.010
GCP230	357954.870	4788709.310	380.780	380.770	-0.010
GCP231	349085.320	4789309.470	459.190	459.200	0.010
GCP232	369010.670	4816361.110	382.480	382.500	0.020
GCP233	373770.860	4771733.050	363.650	363.700	0.050
GCP234	415409.240	4787644.450	353.620	353.550	-0.070
GCP235	411273.030	4803282.770	348.150	348.090	-0.060
GCP236	388078.850	4815959.370	366.990	367.040	0.050
GCP237	437496.900	4813643.730	376.060	376.030	-0.030
GCP238	401412.680	4794097.120	358.380	358.310	-0.070
GCP239	273502.220	4819097.290	473.790	473.760	-0.030
GCP240	298163.710	4795369.320	433.980	433.980	0.000
GCP241	419394.430	4771089.870	382.770	382.860	0.090
GCP242	506701.350	4802869.910	358.950	358.940	-0.010
GCP243	484041.990	4792588.230	361.610	361.610	0.000
GCP245	421956.500	4760460.010	359.270	359.290	0.020
GCP246	384176.130	4771008.890	379.080	379.130	0.050

Table 5: Block 1 IA North Central surveyed ground control points (GCPs).

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

100 % of Totals	# of Points	RMSEz NVA (m)	NVA-Non-vegetated Vertical Accuracy ((RMSEz x 1.9600) m)	Mean (m)	Median (m)	Skew	Std Dev (m)	Min (m)	Max (m)	Kurtosis
GCP	82	0.031	0.060	-0.001	0.000	0.157	0.031	-0.070	0.090	0.328

Table 6: Block 1 IA North Central Ground Control Vertical Accuracy (GCP) results.

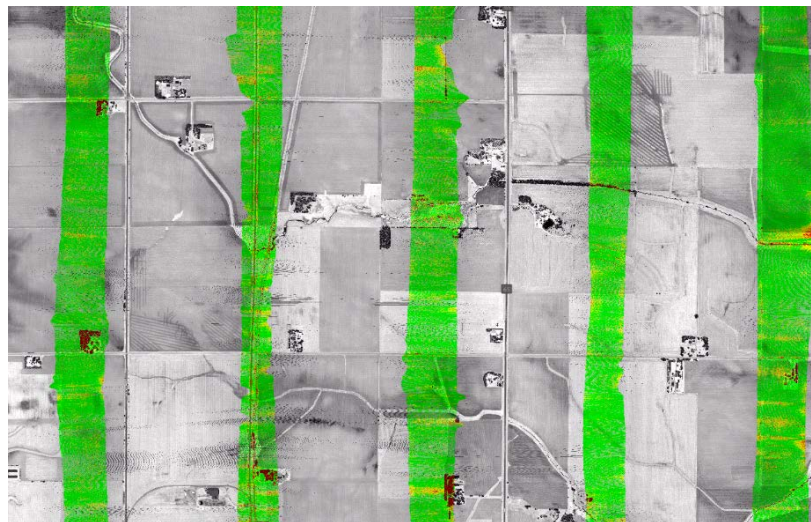
NVA was run on the unclassified point cloud which met the Non-Vegetated Accuracy (NVA) of  $\leq 19.6$  cm at the 95% confidence level based on  $RMSEz \leq 10$  cm  $\times 1.9600$ .

100 % of Totals	# of Points	RMSEz NVA (m)	NVA-Non-vegetated Vertical Accuracy ((RMSEz x 1.9600) m)	Mean (m)	Median (m)	Skew	Std Dev (m)	Min (m)	Max (m)	Kurtosis
NVA	141	0.034	0.066	-0.004	0.000	0.047	0.034	-0.100	0.090	0.023

Table 7: Block 1 IA North RAW Calibrated Vertical Accuracy NVA results.

### Between Swath Relative Accuracy (DZ Orthos)

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





### Within Swath Relative Accuracy (Intraswath)

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

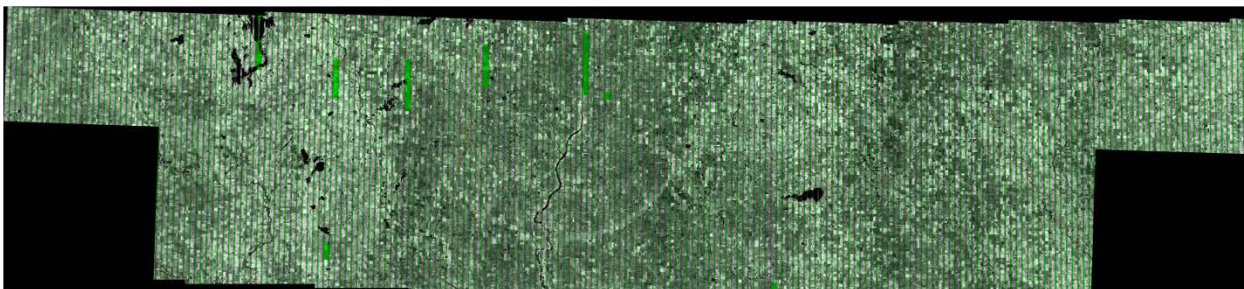
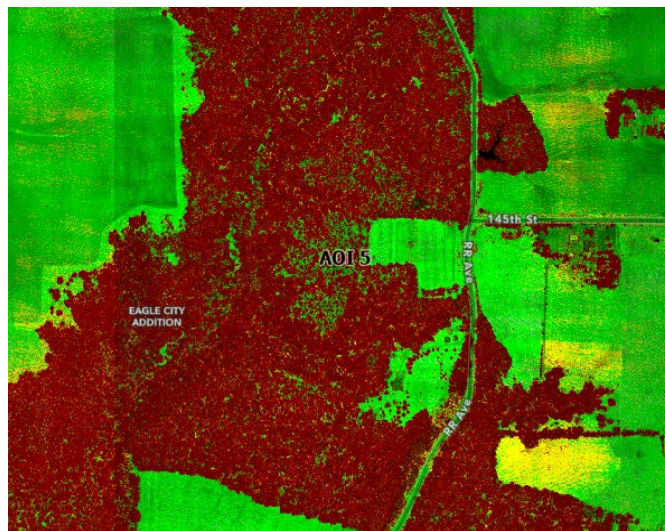
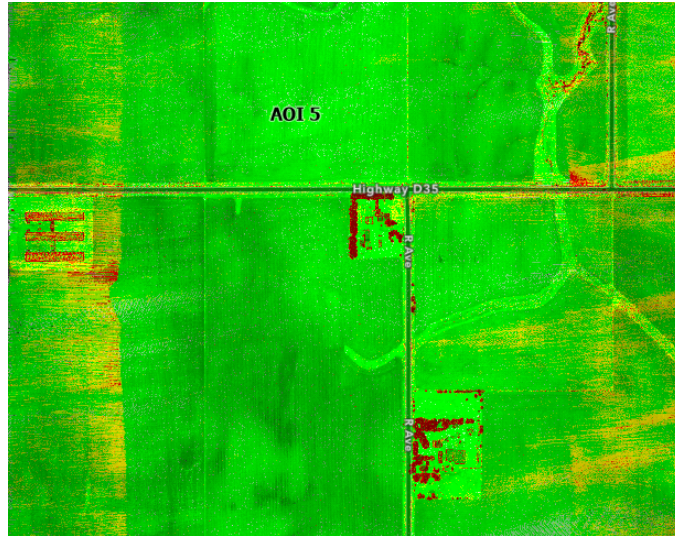
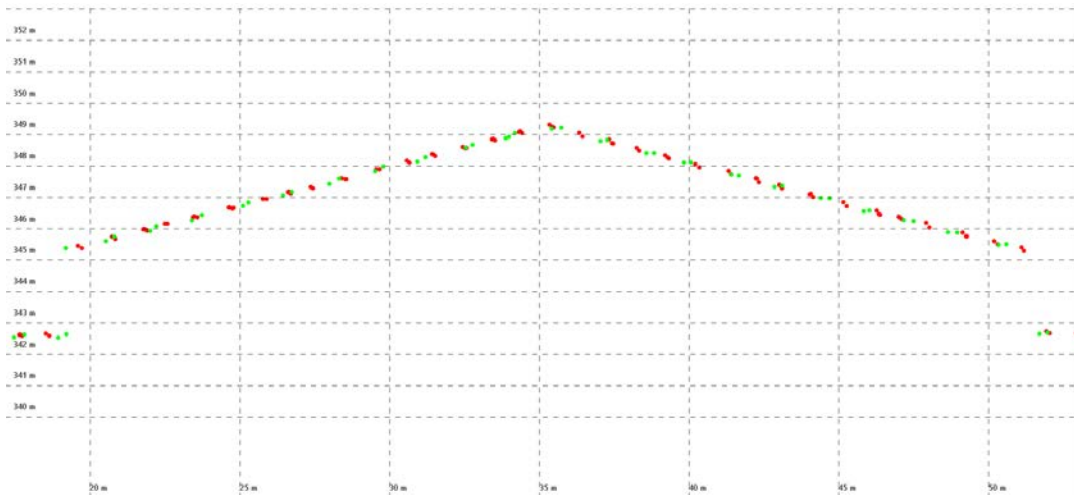


Figure 12: Block 1 IA North Central Project Delta-z raster image.

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

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



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

## ***DATA CLASSIFICATION AND EDITING***

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

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 utilized breaklines compiled by the Prime and Subcontractor to automatically classify hydro features. The water classification routine selects ground points within the breakline polygons and automatically classifies them as class 9, water. During this water classification routine, ground points that are within 2x NPS or less of the hydrographic features are moved to class 20 ignored ground, due to breakline proximity. Overage points are then identified in TerraScan and used to set the overlap bit for those points. The withheld points identified during the classification routine are used to set the withheld bit. The LiDAR tiles were classified to the following classification schema:

- o Class 1 – Default, Processed, but unclassified
- o Class 2 – Ground, Bare-earth
- o Class 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. An LP360 64 bit was used to deduce the Well Known Text (WKT) and ASI proprietary software was used to format the LAS to the final LAS v1.4 Format 6 version. LAsTools by rapidlasso GmbH, open source, lasInfo (open source LGPL) and ASI proprietary software was used to perform final analysis to checks on LAS header information, LAS point classes, and LAS timestamps.

This project consists of 49,787,455,338 lidar points the table below shows the total number of points for every class.

Project Count by Class		
Class 1	Processed, unclassified	5326022799
Class 2	Bare-earth ground	34727672984
Class 7	Low Noise	46058995
Class 9	Water	137651625
Class 17	Bridge Decks	1183627
Class 18	High Noise	265339860
Class 20	Ignored_Ground	3183067
Class Overlap 1	Overlap Processed, unclassified	2712183830
Class Overlap 2	Overlap Bare-earth ground	6309267756
Class Overlap 7	Overlap Low Noise	1522064
Class Overlap 9	Overlap Water	2098548
Class Overlap 17	Overlap Bridge Decks	228199
Class Overlap 18	Overlap High Noise	44972989
Class Overlap 20	Overlap Ignored_Ground	563867
Class Withheld 1	Withheld Processed, unclassified	81267581
Class Withheld 2	Withheld Bare-earth ground	257110
Class Withheld 7	Withheld Low Noise	1

Class Withheld 18	Withheld High Noise	724
Class Overlap Withheld 1	Overlap Withheld Processed, unclassified	127979700
Class Overlap Withheld 7	Overlap Withheld Low Noise	11
Class Overlap Withheld 18	Overlap Withheld High Noise	1
Project Total Count		49787455338

Table 8: By Class Point Count.

### LiDAR Qualitative Assessment

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

### VISUAL REVIEW

The following sections describe common types of issues identified in LiDAR data and the results of the visual review for Block 1 IA North Central 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 1 IA North Central 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).

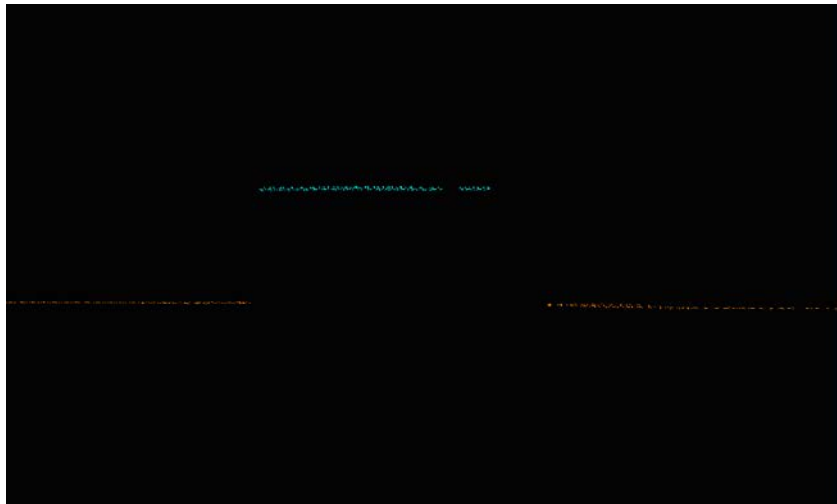


Figure 13: Profile view of a classified bridge deck (blue) and ground (orange).

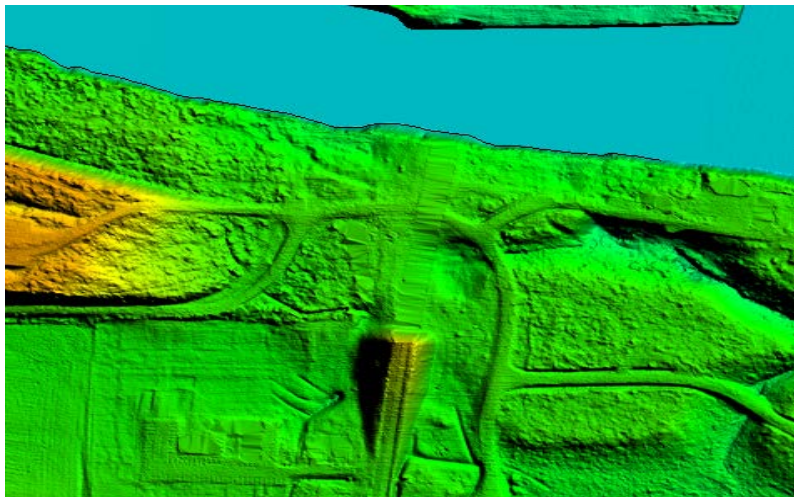


Figure 14: DEM with bridge removed from surface model.

### 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.

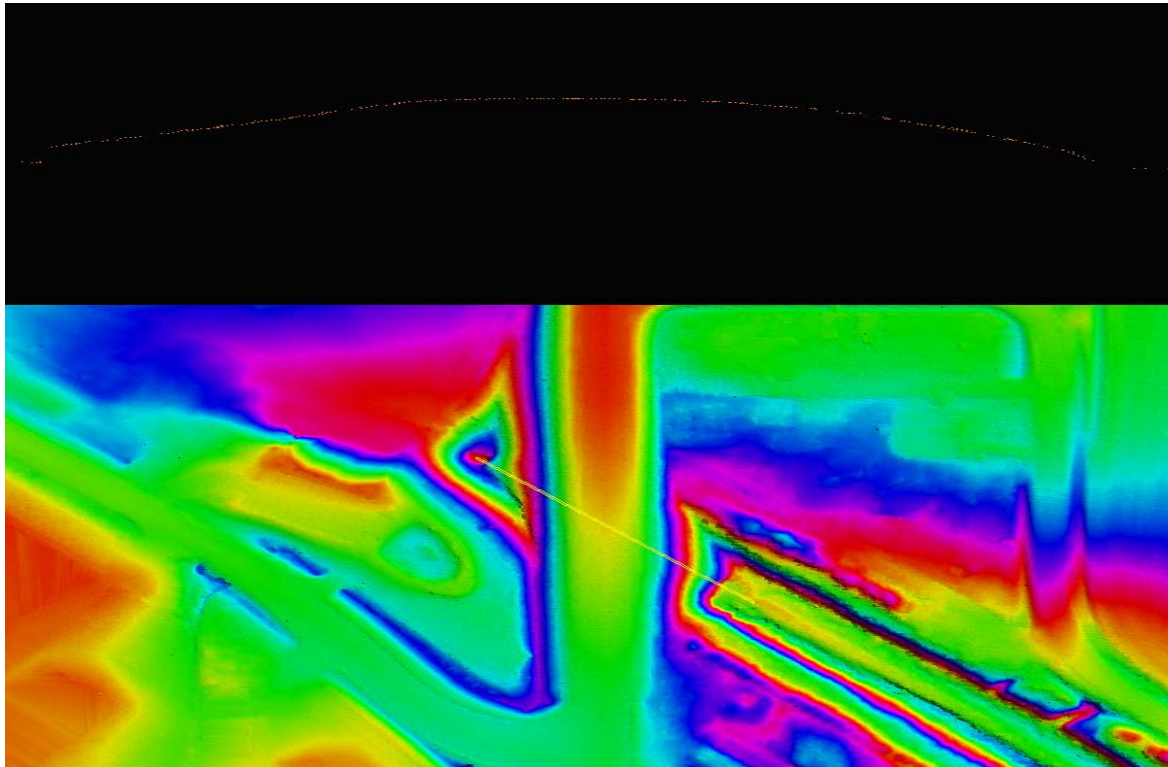


Figure 15: Profile with points colored by class (class 1=white, class 2=orange) is shown in the top view and the DEM is shown in the bottom view. This culvert remains in the bare earth surface. Bridges have been removed from the bare earth surface and classified to class 17.



### 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.

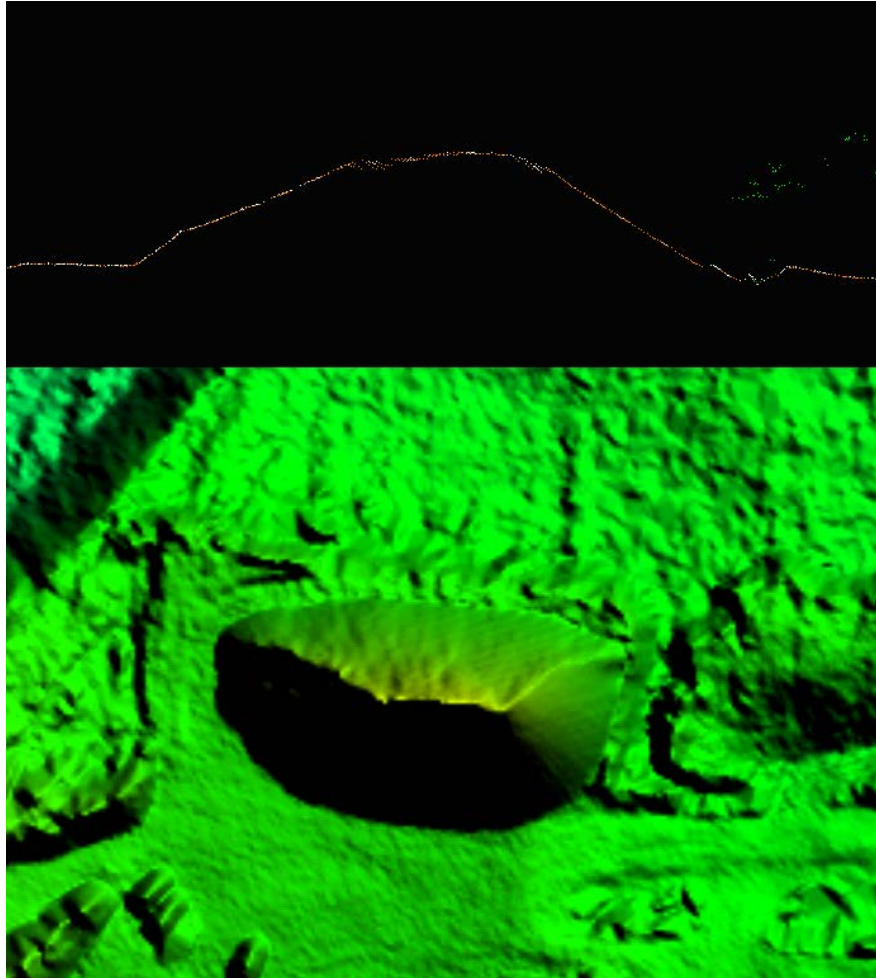


Figure 16: Profile with the points colored by class (unclassified points are white, ground points are orange) is shown on the right and a DEM of the surface is shown to the left. These features are correctly included in the ground classification.

### 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.

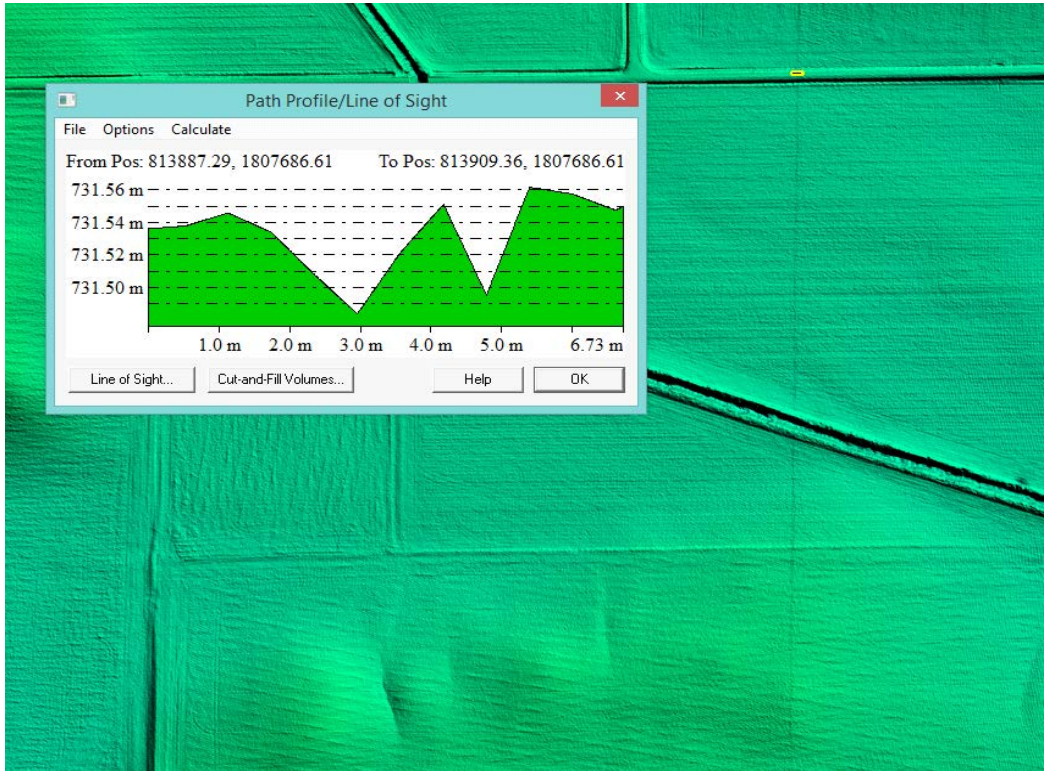


Figure 17: The flight line ridge is less than 8 cm. Overall; the Block 1 IA North Central project data meets the project specifications for 8 cm RMSDz relative accuracy requirement.

### Dam and Lock system

Irregularities in the natural water flow exist in sections of river affected by Lock and Dam systems. Series of locks enable vessels to “step” up or down a river or canal from one water level to another. There are no Lock systems in the Block 1 IA North Central Lidar project area.

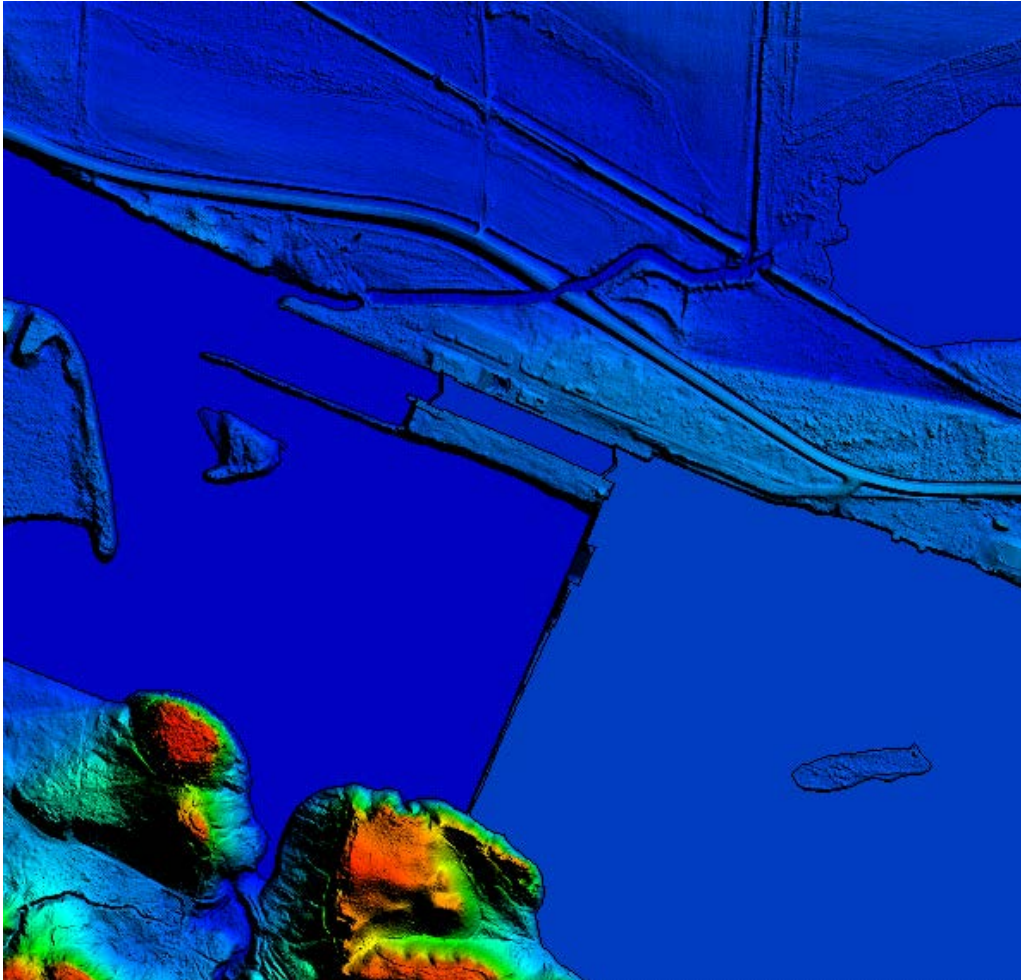


Figure 18: DEM shows Large Dam structure that disrupts natural monotonic river flow, coupled with a lock system.

### FORMATTING

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

## LiDAR Positional Accuracy

### BACKGROUND

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

### SURVEY VERTICAL ACCURACY CHECKPOINTS

For the vertical accuracy assessment of Block 1 IA North Central project, one hundred forty one checkpoints were surveyed. All of those checkpoints are located within bare earth/open terrain (141 NVA points). Please see provided survey report which details and validates how the survey was completed for this project. Checkpoints were evenly distributed throughout the project area so as to cover as many flight lines as possible using the "dispersed method" of placement. All checkpoints surveyed for vertical accuracy testing purposes are listed in the following table.

Point ID	NAD83 (2011) UTM Zone 15 North	NAD83 (2011) UTM Zone 15 North	NAVD88 (Geoid12B)
	Easting (M)	Northing (M)	Elevation (M)
NVA01	283102.910	4819828.140	504.930
NVA02	278082.800	4809453.760	469.380
NVA03	272287.360	4794885.810	439.010
NVA04	288533.990	4796015.200	480.670
NVA05	268474.640	4812840.870	468.180
NVA06	294763.380	4809786.420	478.020
NVA07	303059.220	4813030.670	472.940
NVA08	299787.310	4819258.130	481.200



NVA09	296858.890	4800309.160	448.780
NVA10	312197.180	4813940.830	455.690
NVA11	329809.730	4809978.390	447.320
NVA12	325693.210	4798912.290	437.030
NVA13	321423.320	4781920.570	406.310
NVA14	342272.100	4810471.110	454.030
NVA15	324173.920	4818743.250	445.340
NVA16	351261.460	4806979.860	395.640
NVA17	362431.840	4806019.100	395.300
NVA18	380106.820	4805892.490	382.450
NVA19	369321.910	4813759.610	393.360
NVA20	354773.640	4795559.550	395.630
NVA21	377436.760	4794628.270	391.170
NVA22	306426.600	4799972.160	444.800
NVA23	311025.550	4793424.970	436.040
NVA24	314572.160	4804604.100	449.610
NVA25	338757.250	4818384.530	441.540
NVA26	339963.110	4796670.980	436.980
NVA27	325502.460	4789866.340	439.790
NVA28	335273.500	4802429.830	450.830
NVA29	355045.810	4816728.350	409.420
NVA30	378497.730	4814563.520	382.560
NVA31	368717.190	4801676.130	391.350
NVA32	368564.240	4794442.140	386.070
NVA33	387894.240	4804544.210	369.400
NVA34	401476.010	4804260.340	356.940

NVA35	389693.890	4815944.160	361.840
NVA36	399225.370	4815769.730	350.110
NVA37	406260.090	4808303.330	351.380
NVA38	412089.970	4817436.940	346.220
NVA39	384371.830	4785385.080	380.900
NVA40	401348.630	4796290.790	355.120
NVA41	415434.690	4787564.660	353.540
NVA42	422897.280	4804076.350	361.480
NVA43	424631.570	4814971.860	352.210
NVA44	425996.540	4786642.080	374.750
NVA45	437876.280	4802374.310	387.070
NVA46	442753.480	4816726.700	382.260
NVA47	456836.510	4807578.600	393.720
NVA48	448693.770	4807064.390	395.890
NVA49	460491.150	4816637.870	392.200
NVA50	470084.530	4816343.650	389.760
NVA51	480026.840	4816272.980	377.470
NVA52	448890.160	4787595.420	367.810
NVA53	471915.550	4800519.900	383.740
NVA54	459615.720	4790935.380	367.040
NVA55	463092.890	4801162.210	384.930
NVA56	448452.200	4798183.980	371.420
NVA57	426042.080	4795982.040	366.140
NVA58	482230.920	4810166.530	376.030
NVA59	471341.410	4810358.680	387.850
NVA60	482959.230	4800492.210	368.150

NVA61	468966.390	4792485.670	366.940
NVA62	435645.260	4792701.290	392.750
NVA63	483951.250	4792696.650	362.360
NVA64	498389.770	4806902.810	362.760
NVA65	489940.230	4811732.470	366.220
NVA66	489955.330	4816290.310	368.120
NVA67	493995.890	4797216.920	373.050
NVA68	506543.580	4802688.630	355.690
NVA69	517607.640	4809420.030	364.800
NVA70	504510.500	4816792.650	366.160
NVA71	508832.970	4809942.020	363.430
NVA72	532915.750	4812533.770	398.240
NVA73	536114.060	4800868.780	373.610
NVA74	516969.570	4803654.930	376.270
NVA75	516260.600	4792433.500	357.940
NVA76	544521.130	4817329.350	388.840
NVA77	571649.080	4802437.760	396.180
NVA88	558060.690	4811216.340	382.930
NVA89	570373.430	4813633.660	387.330
NVA90	556656.960	4802233.900	392.710
NVA91	544170.780	4794143.900	381.120
NVA92	566538.920	4794326.240	378.170
NVA93	501255.460	4792405.050	369.290
NVA94	529711.320	4792449.470	344.500
NVA95	548118.750	4802201.270	378.950
NVA96	557098.880	4790196.270	376.310



NVA97	307584.940	4783958.850	423.570
NVA98	341123.460	4786591.030	413.690
NVA99	335387.720	4777698.370	409.310
NVA100	313834.310	4770197.440	430.740
NVA101	308706.470	4754435.390	382.410
NVA102	323833.650	4764218.890	426.830
NVA103	335785.800	4757602.550	416.710
NVA104	357272.500	4789177.630	392.680
NVA105	361608.140	4773448.360	367.060
NVA106	373771.720	4771832.260	363.600
NVA107	345528.380	4776830.190	437.770
NVA109	350478.210	4767110.470	407.290
NVA110	344072.760	4765346.760	414.730
NVA111	384294.400	4779060.670	383.300
NVA112	363124.610	4760079.710	369.240
NVA113	350186.120	4755586.670	404.340
NVA114	372817.970	4763074.910	356.970
NVA115	392408.870	4786385.900	366.980
NVA116	400981.150	4783466.600	359.520
NVA117	404083.650	4775647.660	355.530
NVA118	419155.160	4770892.990	382.630
NVA119	396341.260	4770557.850	369.600
NVA120	382129.840	4757105.550	366.910
NVA121	402474.130	4762548.010	350.640
NVA122	411483.710	4751305.340	355.470
NVA123	421964.240	4760458.830	359.270

NVA124	434754.680	4771767.870	374.070
NVA125	435843.770	4786127.750	382.610
NVA126	451011.720	4772626.340	368.690
NVA127	450934.820	4761760.270	373.760
NVA128	435338.550	4760560.960	363.730
NVA129	435152.500	4754328.660	359.910
NVA130	472667.220	4777784.280	363.940
NVA131	465997.410	4784580.310	381.370
NVA132	482883.490	4784607.550	343.010
NVA133	493225.520	4779631.640	345.560
NVA134	489988.780	4789168.510	348.100
NVA135	490048.400	4774841.260	328.420
NVA136	472105.610	4758662.630	360.750
NVA137	462705.820	4768407.990	385.940
NVA138	484158.440	4758619.400	336.110
NVA139	483629.480	4768245.010	368.980
NVA140	493300.050	4765035.740	345.030
NVA141	507699.050	4782844.180	358.860
NVA142	504434.040	4773942.250	335.320
NVA143	518350.190	4786091.290	335.410
NVA144	520630.240	4774897.860	328.410
NVA145	529771.930	4778173.520	341.990
NVA146	526189.690	4768562.520	307.010
NVA147	505269.420	4766615.750	313.150
NVA148	515438.520	4766682.980	338.460
NVA149	510722.440	4756761.280	303.630

NVA150	502779.600	4752164.980	333.810
NVA151	526677.320	4753785.590	325.510
NVA186	460963.940	4751236.830	381.490
VVA01	269254.250	4819256.910	461.660
VVA02	278393.990	4809344.010	464.020
VVA03	273360.400	4799264.160	445.380
VVA04	294824.170	4809787.920	478.190
VVA05	288673.130	4795739.680	479.440
VVA06	301593.430	4819241.450	466.570
VVA07	310842.040	4813871.440	446.340
VVA08	309130.230	4798264.560	431.490
VVA09	325091.290	4799132.870	437.270
VVA10	329060.020	4812289.950	436.560
VVA11	325665.530	4777963.100	399.700
VVA12	352320.780	4806265.560	394.580
VVA13	354527.040	4798111.640	387.790
VVA14	380591.150	4806216.480	377.800
VVA15	412010.100	4817210.960	341.840
VVA16	401406.850	4793919.450	354.830
VVA17	384385.820	4785989.290	379.890
VVA18	400071.740	4769050.720	365.640
VVA19	346038.650	4782816.260	410.800
VVA20	363430.170	4774490.930	381.090
VVA21	377769.150	4795079.970	387.410
VVA22	369199.750	4816377.870	378.530
VVA23	422862.240	4804724.180	361.220

VVA24	437294.130	4802077.860	388.550
VVA25	426217.590	4786735.990	373.390
VVA26	447474.700	4790538.140	383.760
VVA27	456754.200	4807409.210	387.120
VVA28	460241.360	4816405.100	388.020
VVA29	465778.730	4813911.570	386.980
VVA30	465295.720	4773897.200	377.650
VVA31	484111.380	4776057.040	350.620
VVA32	484022.510	4792612.430	361.430
VVA33	481874.390	4809908.140	363.340
VVA34	469403.790	4791695.460	366.960
VVA35	506642.740	4802442.750	356.660
VVA36	504547.490	4814917.030	357.240
VVA37	494391.150	4797393.940	374.380
VVA38	515342.950	4792065.190	357.510
VVA39	536178.390	4800445.850	373.610
VVA40	518034.780	4809400.720	362.460
VVA41	532911.170	4816383.820	413.730
VVA42	558483.790	4811000.340	373.830
VVA43	571604.410	4802662.020	395.510
VVA44	556966.350	4790185.260	374.040
VVA45	570068.860	4816603.620	345.430
VVA46	548619.250	4802196.130	379.810
VVA47	545649.390	4787816.640	359.530
VVA48	522123.550	4803095.270	365.110
VVA49	540846.020	4810697.470	401.580

VVA50	529342.100	4789252.500	332.460
VVA51	521146.350	4774659.600	330.840
VVA52	525184.750	4768862.100	306.100
VVA53	533012.350	4778492.780	352.860
VVA54	499653.700	4777183.890	333.070
VVA55	506293.590	4786873.160	343.640
VVA56	493283.880	4783470.980	334.770
VVA57	405949.260	4808046.550	351.610
VVA58	357889.670	4788133.750	379.330
VVA59	308539.940	4754507.060	378.370
VVA61	333906.840	4764724.900	398.260
VVA62	314159.160	4770715.740	430.710
VVA63	350736.050	4766781.260	401.530
VVA64	382132.130	4757774.080	364.120
VVA65	362691.390	4754980.510	372.180
VVA75	433869.39	4771553.38	366.98
VVA76	451065.88	4761833.17	372.17
VVA77	422333.86	4760424.99	357.11
VVA79	484133.53	4759169.68	336.66
VVA80	505516.83	4766581.02	313.34
VVA81	511091.75	4755720.07	294.49
VVA82	534103.05	4755410.02	316.95
VVA186	325088.15	4810018.78	436.67
VVA187	339913.82	4796659.1	436.41
VVA188	282222.25	4819913.03	502.64
VVA189	299170.5	4799298.97	434.22

VVA190	322999.11	4805406.89	445.1
VVA191	355077.02	4817072.14	409.86
VVA192	370892.04	4805611.39	390.52
VVA193	394375.06	4811949.11	356.6
VVA194	384151.27	4768579.2	366.33
VVA196	450422.52	4771467.42	373.68
VVA197	571432.02	4786541.32	373.31
VVA207	403823.32	4776191.01	341.2
VVA208	320720.34	4791930.81	413.64
VVA209	342377.71	4810518.42	455.01
VVA213	435310	4754147.58	361.76
VVA214	468661.43	4754579.89	363
VVA215	415602.73	4787208.24	353.46
VVA216	423948.09	4792807.39	363.26
VVA217	443631.39	4812002.25	379.72
VVA218	463015.19	4801188.04	384.78
VVA219	478985.71	4782917.75	351.32
VVA225	311115.78	4781100.02	414.15
VVA226	332857.83	4807747.08	455.03
VVA227	362838.05	4800183.13	387.18
VVA237	454079.75	4789230.4	401.93
VVA238	448580.39	4798328.66	371.37
VVA239	448487.34	4807014.74	391.63
VVA240	425546.86	4814986.77	352.87
VVA241	411200.02	4803243.33	347.81
VVA242	393860.57	4803757.17	358.26



VVA243	335940.54	4757441.86	416.66
VVA245	411302.96	4751872.88	355.11
VVA246	419058.14	4770574.34	381.21
VVA247	435822.55	4786149.38	382.6
VVA248	373997.82	4771955.85	363.28

Table 9: Block 1 IA North Central project LiDAR Validation Checkpoints.

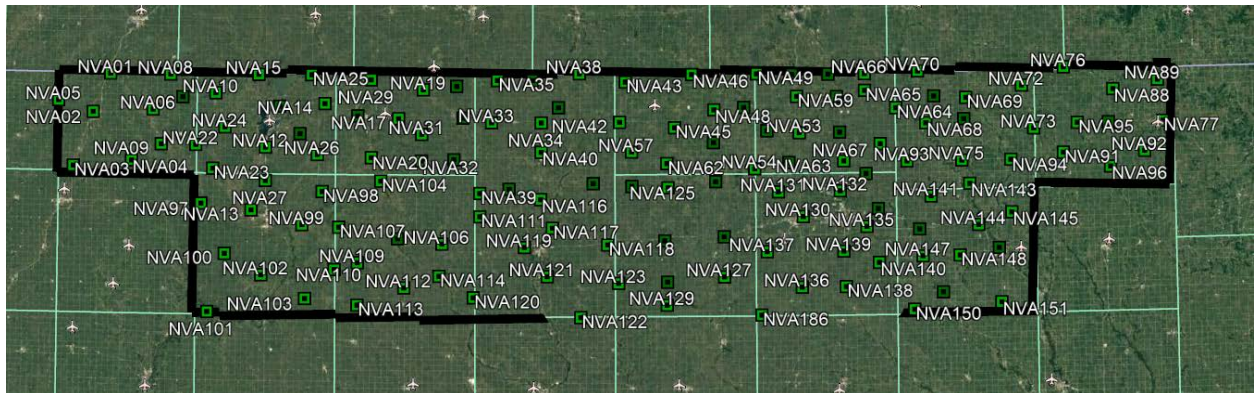


Figure 19: Location of Block 1 IA North Central LiDAR NVA Checkpoints

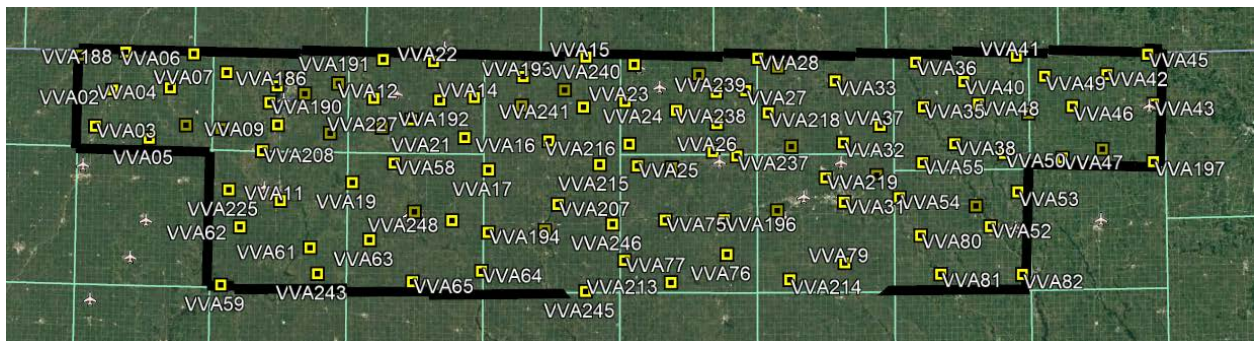


Figure 20: VVA Checkpoints were located in Block 1 IA North Central



## 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 1 IA North Central project, vertical accuracy must be 19.6 cm (0.64 ft) or less based on an RMSEz of 10 cm (0.33 ft) x 1.9600. VVA (Vegetated Vertical Accuracy) is determined with all checkpoints in vegetated land cover categories, including tall grass, weeds, crops, brush and low trees, and fully forested areas, where there is a possibility that the LiDAR sensor and post-processing may yield elevation errors that do not follow a normal error distribution. VVA at the 95% confidence level equals the 95th percentile error for all checkpoints in all vegetated land cover categories combined. The Block 1 IA North Central Lidar project VVA standard is 29.4 cm (0.96 ft) based on the 95th percentile.

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

Table 10: Acceptance Criteria.

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

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

## VERTICAL ACCURACY RESULTS

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

Land Cover Category	# of Points	NVA – Non-vegetated Vertical Accuracy (95% confidence) Spec = 0.196 m	VVA – Vegetated Vertical Accuracy (95 <sup>th</sup> Percentile) spec = 0.294 m
NVA	141	0.068	
VVA	106		0.100

Table 11: Tested NVA and VVA.

## HORIZONTAL ACCURACY TEST PROCEDURES

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

## **Breakline Production methodology**

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

### **Breakline Qualitative Assessment**

Completeness and horizontal placement is verified through visual review against LiDAR intensity imagery, and bare earth surface. Breakline features are 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 4046m<sup>2</sup> (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. The Intensities are reviewed for any issues requiring corrections. Tiles are verified for final formatting and loaded into Global Mapper to ensure there are no missing, or corrupt tiles, and to check for seamlessness across tile boundaries.

### **INTENSITY QUALITATIVE ASSESSMENT**

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



Figure 21: Intensity Image example.

During quality assessment of the intensities it was noted that in an area of where a void was patched intensities contains dark edging along the perimeter of where the data void was filled in. ASI tried multiple applications to reduce the appearance of the dark edging with little to no real success. Blocks containing darkened edging are; w4140n4798, w4150n4798, w4160n4798, w4140n4799, w4150n4799, and w4160n4799.





## *DEM Production & Qualitative Assessment*

### **DEM PRODUCTION METHODOLOGY**

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

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

### **DEM QUALITATIVE ASSESSMENT**

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

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

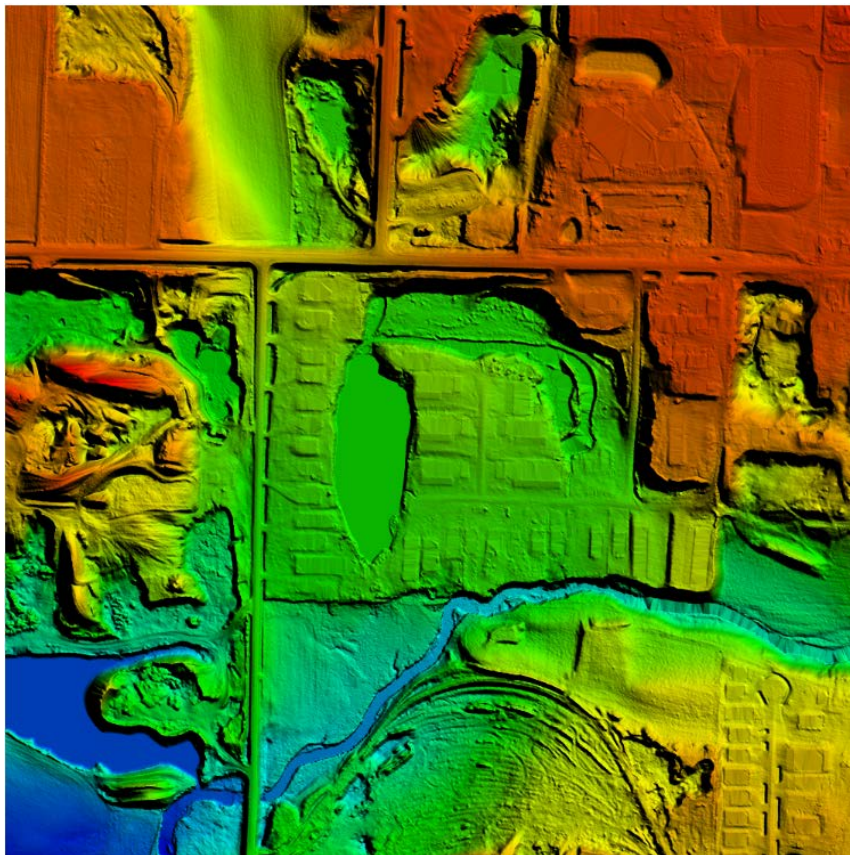


Figure 22: Block 1 IA North Central project bare earth DEM

## DEM VERTICAL ACCURACY RESULTS

The same 141 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.

Table 12; 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 <sup>th</sup> percentile)
NVA	141	0.066	
VVA	106		0.107

Table 12: DEM vertical accuracy summary

DEM datasets were tested to meet ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014) for a 10 cm RMSEz Vertical Accuracy Class. Actual NVA accuracy was found to be RMSEz = 0.033 meters with a 0.066 meters accuracy at 95 % confidence level. Actual VVA accuracy tested 0.107 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 1 IA North Central project satisfies the project's pre-defined vertical accuracy criteria.



**Appendix A: List of Delivered LAS File**

w2670n4792	w2690n4796	w2700n4817	w2720n4809
w2670n4793	w2690n4797	w2700n4818	w2720n4810
w2670n4794	w2690n4798	w2700n4819	w2720n4811
w2670n4795	w2690n4799	w2700n4820	w2720n4812
w2670n4796	w2690n4800	w2710n4792	w2720n4813
w2670n4797	w2690n4801	w2710n4793	w2720n4814
w2670n4798	w2690n4802	w2710n4794	w2720n4815
w2670n4799	w2690n4803	w2710n4795	w2720n4816
w2670n4800	w2690n4804	w2710n4796	w2720n4817
w2670n4801	w2690n4805	w2710n4797	w2720n4818
w2670n4802	w2690n4806	w2710n4798	w2720n4819
w2670n4803	w2690n4807	w2710n4799	w2720n4820
w2670n4804	w2690n4808	w2710n4800	w2730n4792
w2670n4805	w2690n4809	w2710n4801	w2730n4793
w2670n4806	w2690n4810	w2710n4802	w2730n4794
w2670n4807	w2690n4811	w2710n4803	w2730n4795
w2670n4808	w2690n4812	w2710n4804	w2730n4796
w2680n4792	w2690n4813	w2710n4805	w2730n4797
w2680n4793	w2690n4814	w2710n4806	w2730n4798
w2680n4794	w2690n4815	w2710n4807	w2730n4799
w2680n4795	w2690n4816	w2710n4808	w2730n4800
w2680n4796	w2690n4817	w2710n4809	w2730n4801
w2680n4797	w2690n4818	w2710n4810	w2730n4802
w2680n4798	w2690n4819	w2710n4811	w2730n4803
w2680n4799	w2690n4820	w2710n4812	w2730n4804
w2680n4800	w2700n4792	w2710n4813	w2730n4805
w2680n4801	w2700n4793	w2710n4814	w2730n4806
w2680n4802	w2700n4794	w2710n4815	w2730n4807
w2680n4803	w2700n4795	w2710n4816	w2730n4808
w2680n4804	w2700n4796	w2710n4817	w2730n4809
w2680n4805	w2700n4797	w2710n4818	w2730n4810
w2680n4806	w2700n4798	w2710n4819	w2730n4811
w2680n4807	w2700n4799	w2710n4820	w2730n4812
w2680n4808	w2700n4800	w2720n4792	w2730n4813
w2680n4809	w2700n4801	w2720n4793	w2730n4814
w2680n4810	w2700n4802	w2720n4794	w2730n4815
w2680n4811	w2700n4803	w2720n4795	w2730n4816
w2680n4812	w2700n4804	w2720n4796	w2730n4817
w2680n4813	w2700n4805	w2720n4797	w2730n4818
w2680n4814	w2700n4806	w2720n4798	w2730n4819
w2680n4815	w2700n4807	w2720n4799	w2730n4820
w2680n4816	w2700n4808	w2720n4800	w2740n4792
w2680n4817	w2700n4809	w2720n4801	w2740n4793
w2680n4818	w2700n4810	w2720n4802	w2740n4794
w2680n4819	w2700n4811	w2720n4803	w2740n4795
w2680n4820	w2700n4812	w2720n4804	w2740n4796
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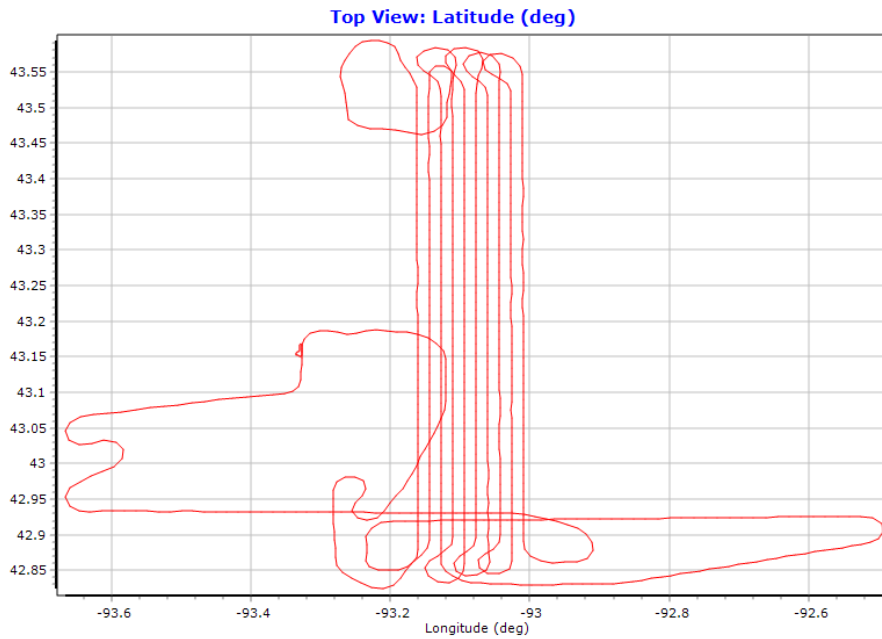
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## Appendix B: Aerial Surveys International, LLC Mission GPS and IMU Processing Report

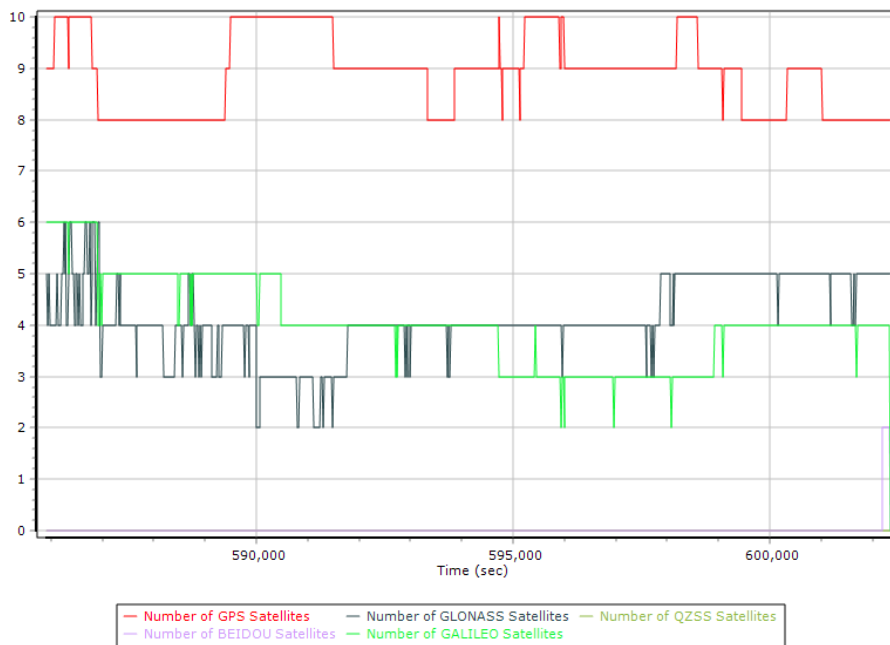
North\_040420A\_1-386.docx QC Report - 4/07/2021 09:35:03

### Smoothed Trajectory Information

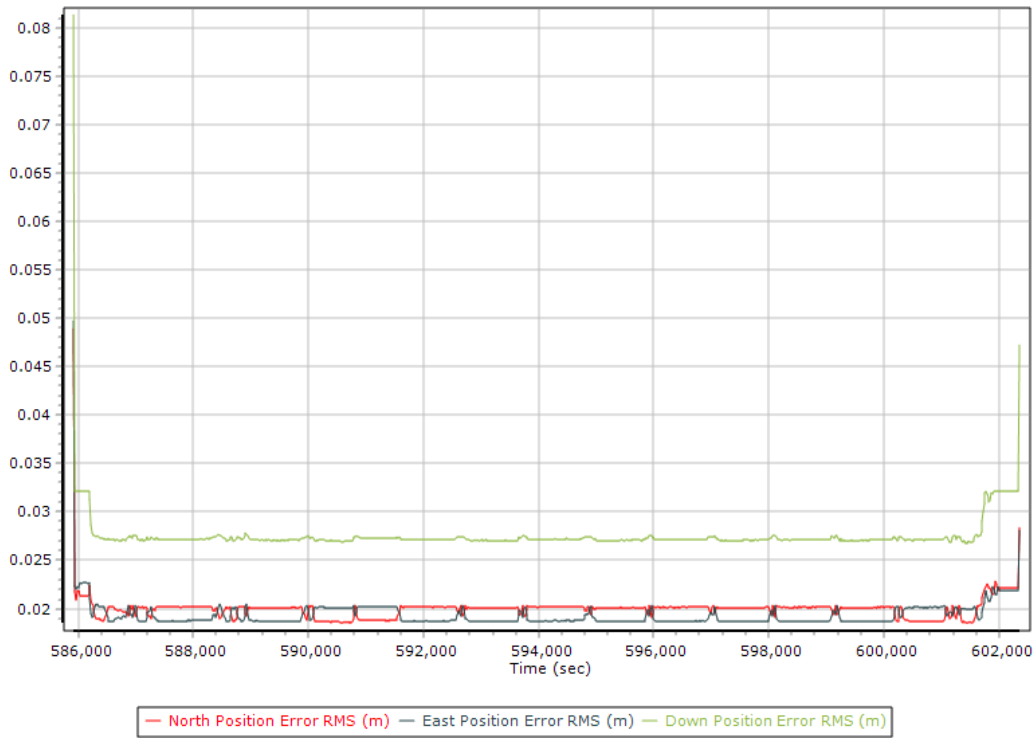
#### Top View



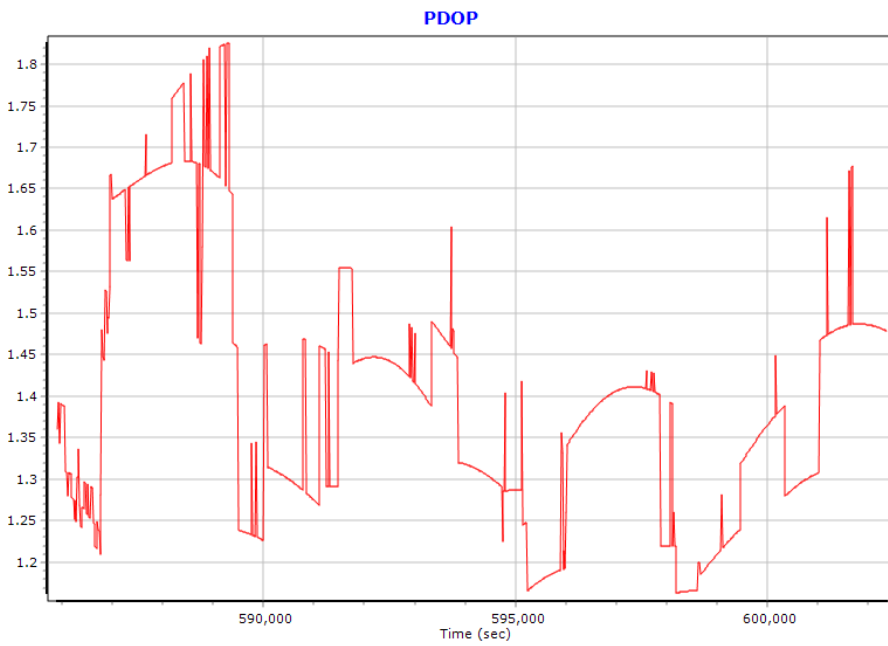
#### Number of Satellites



### Forward/Reverse Separation

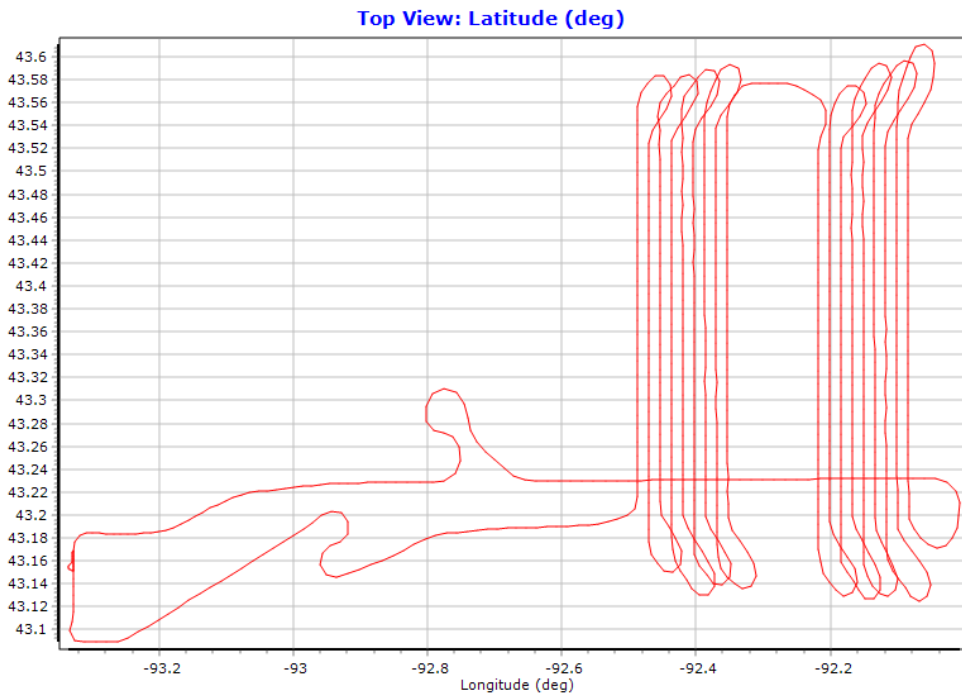


### PDOP

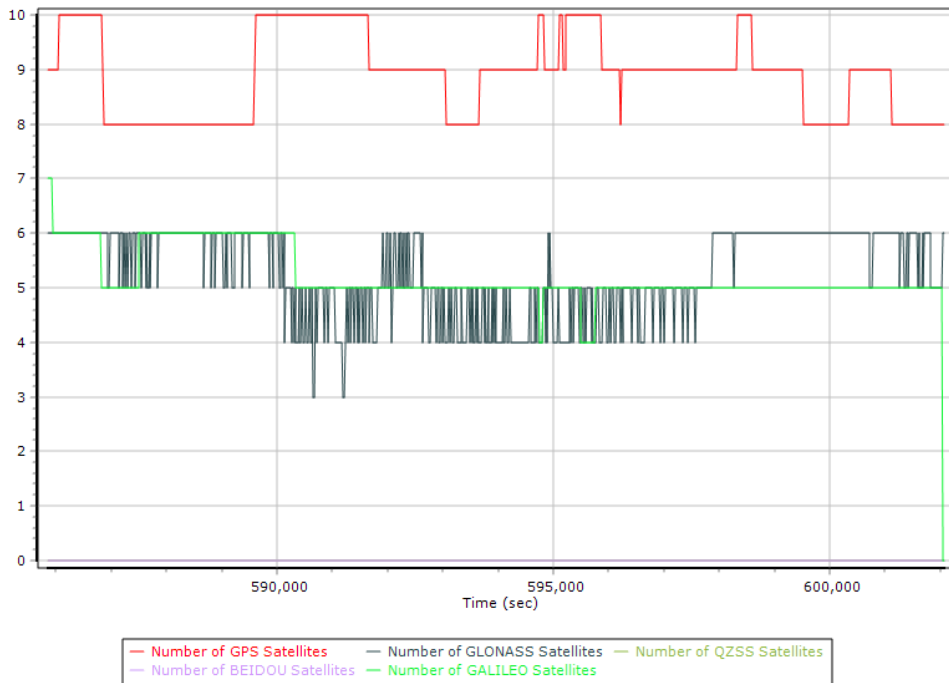


North\_040420A\_1-442.docx QC Report - 4/07/2021 11:17:04  
**Smoothed Trajectory Information**

**Top View**

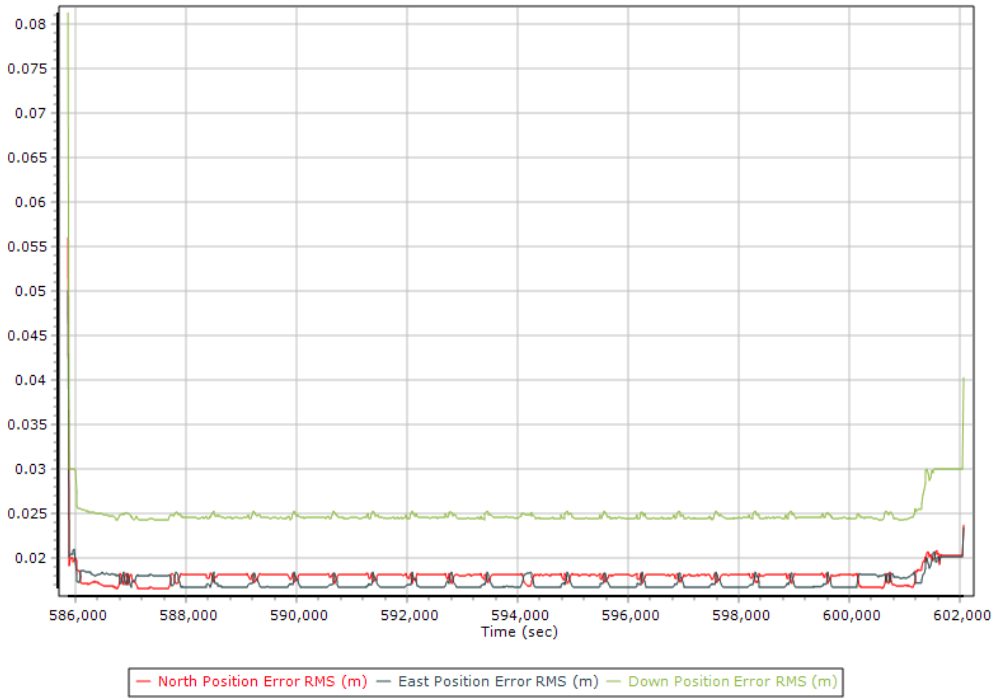


**Number of Satellites**

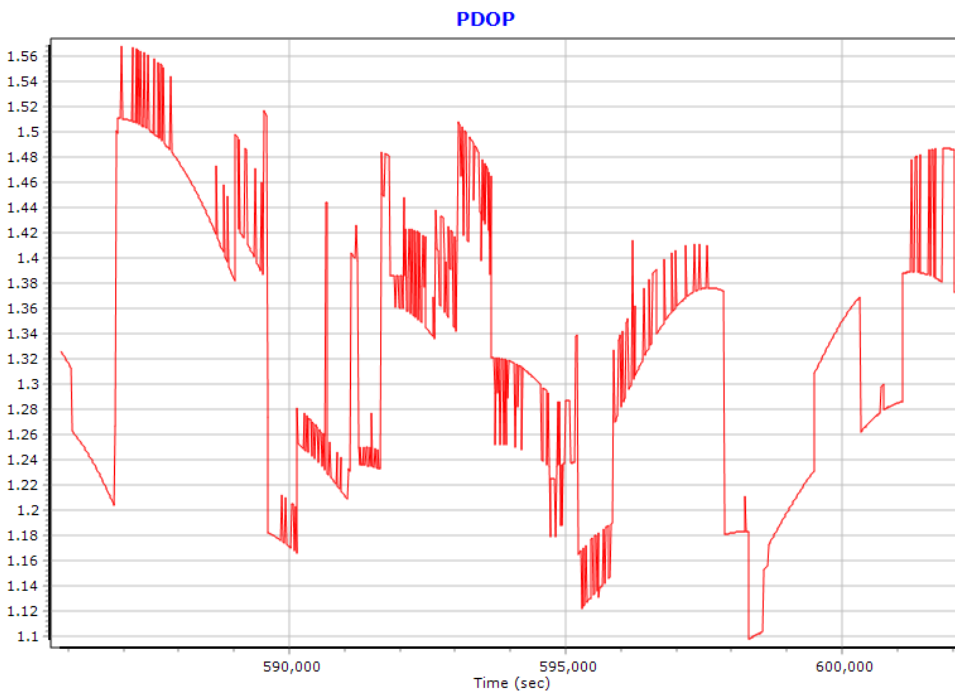




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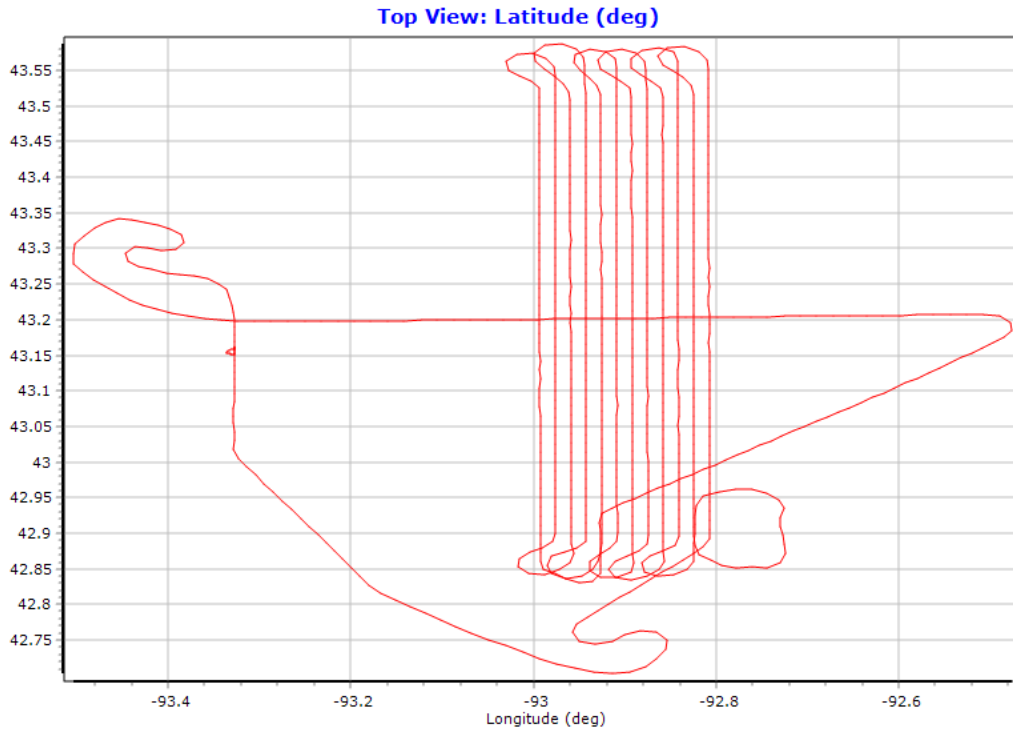


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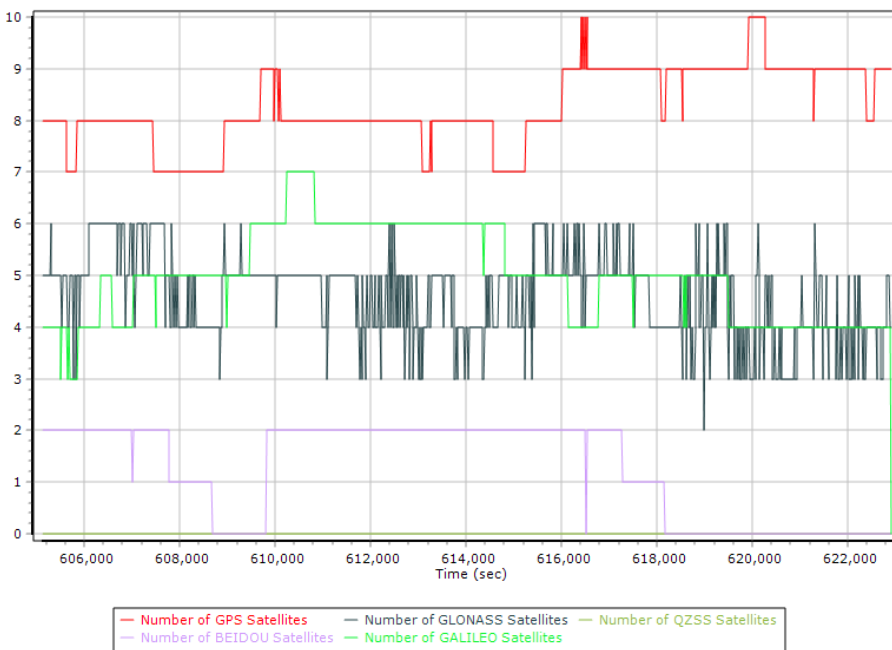


North\_040420B\_2-386.docx QC Report - 4/07/2021 09:13:25  
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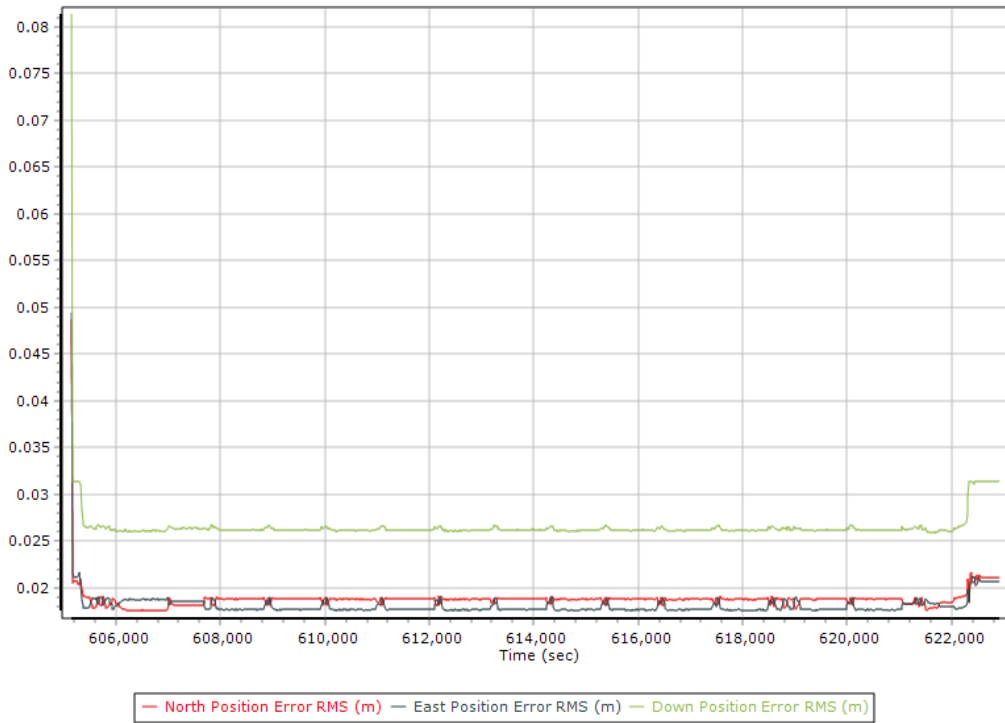
**Top View**



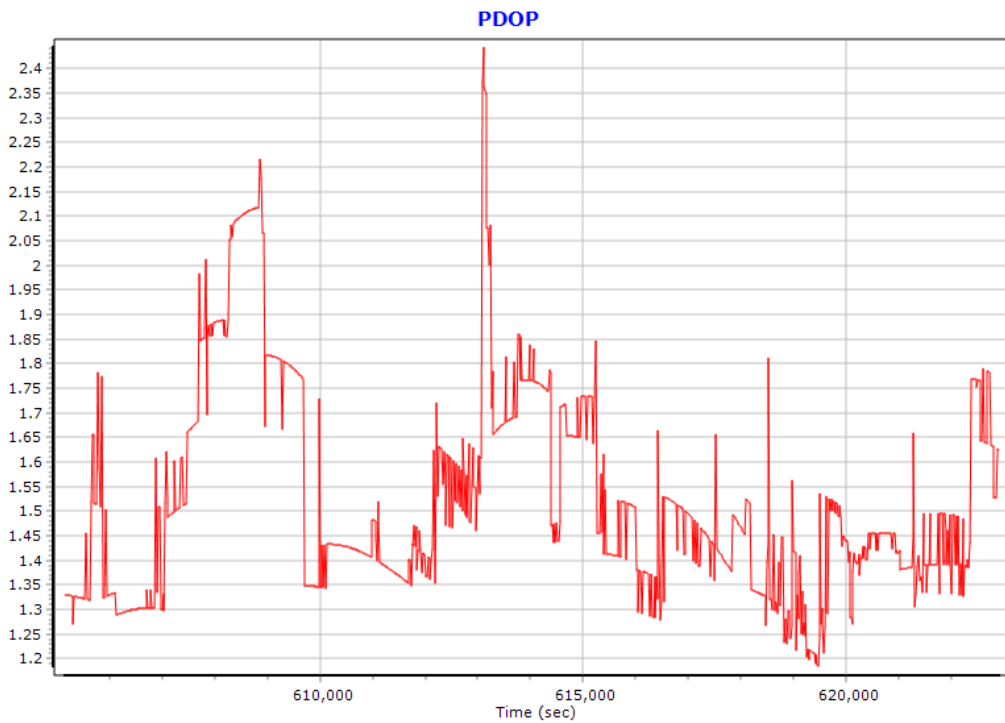
**Number of Satellites**



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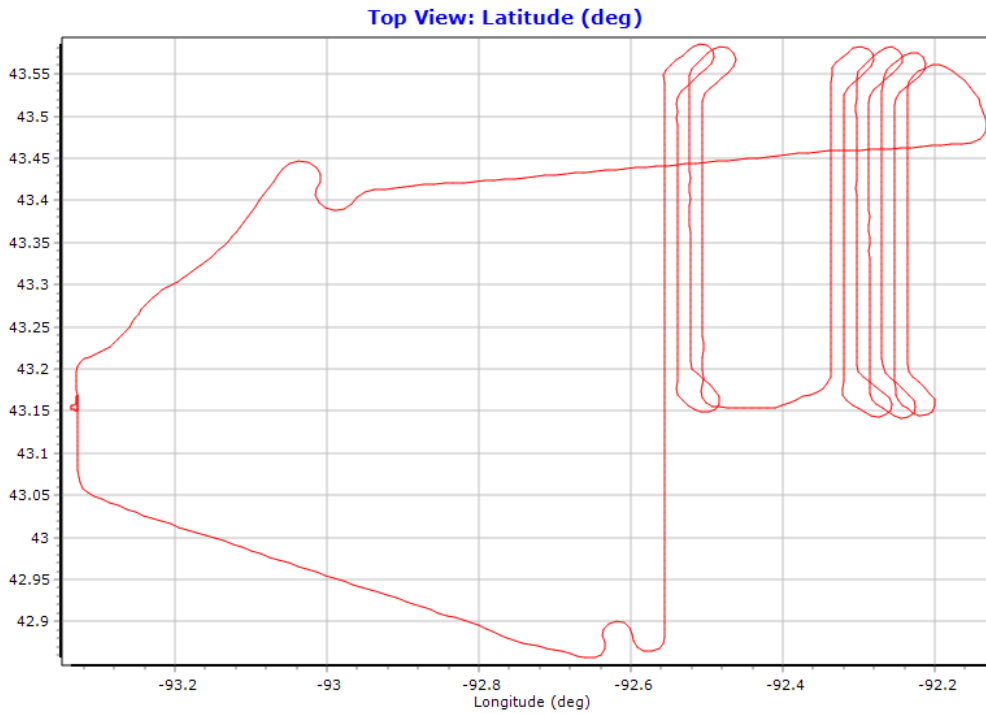


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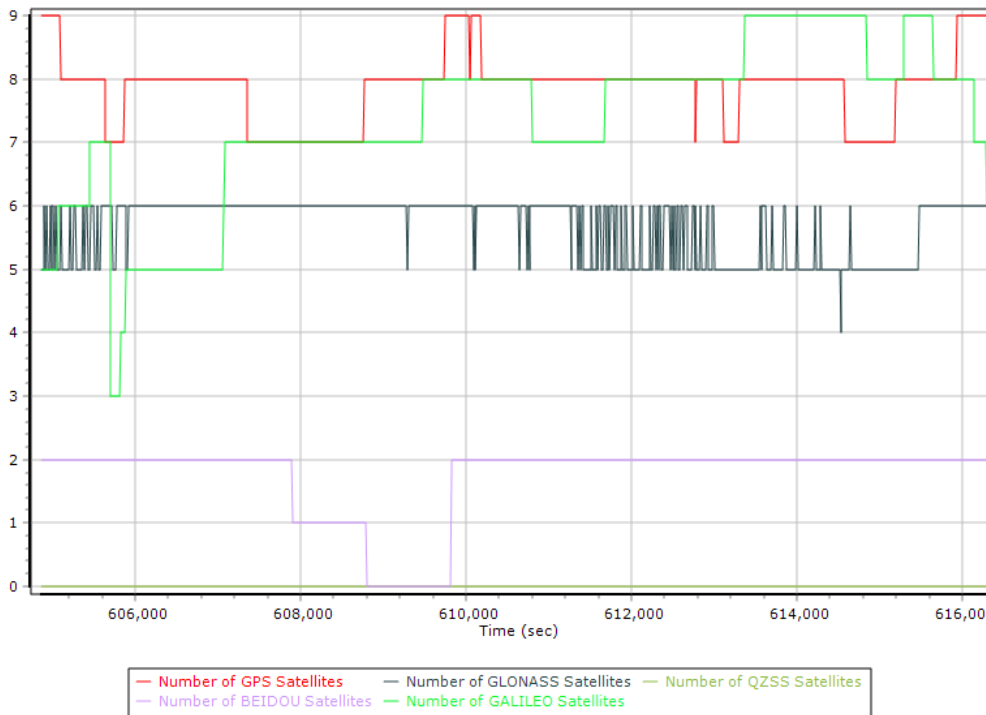


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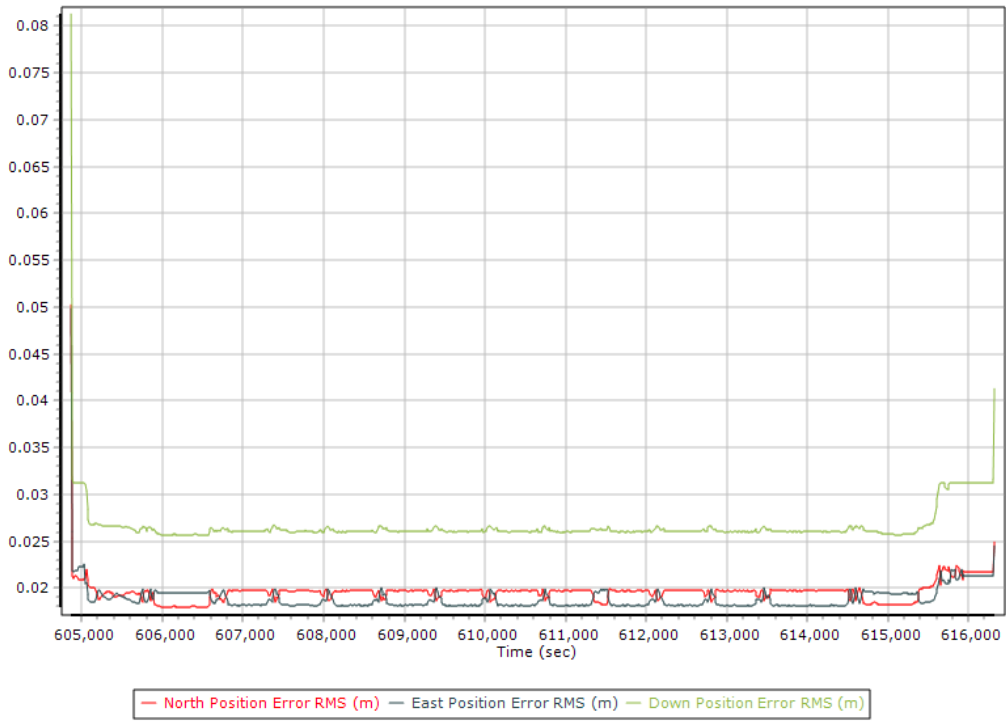
**Top View**



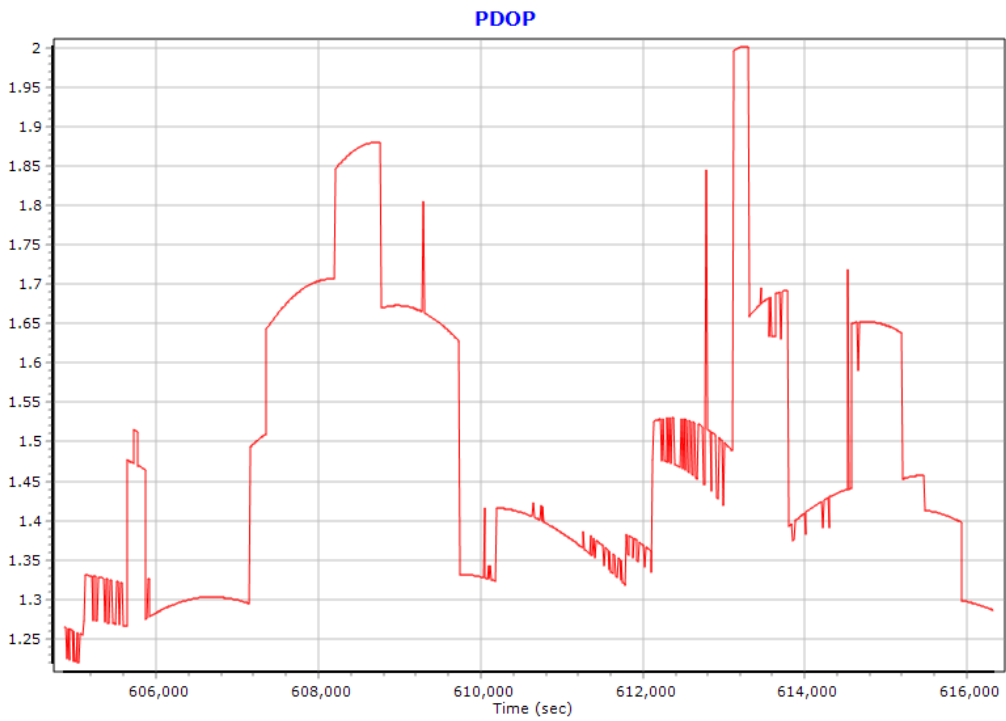
**Number of Satellites**



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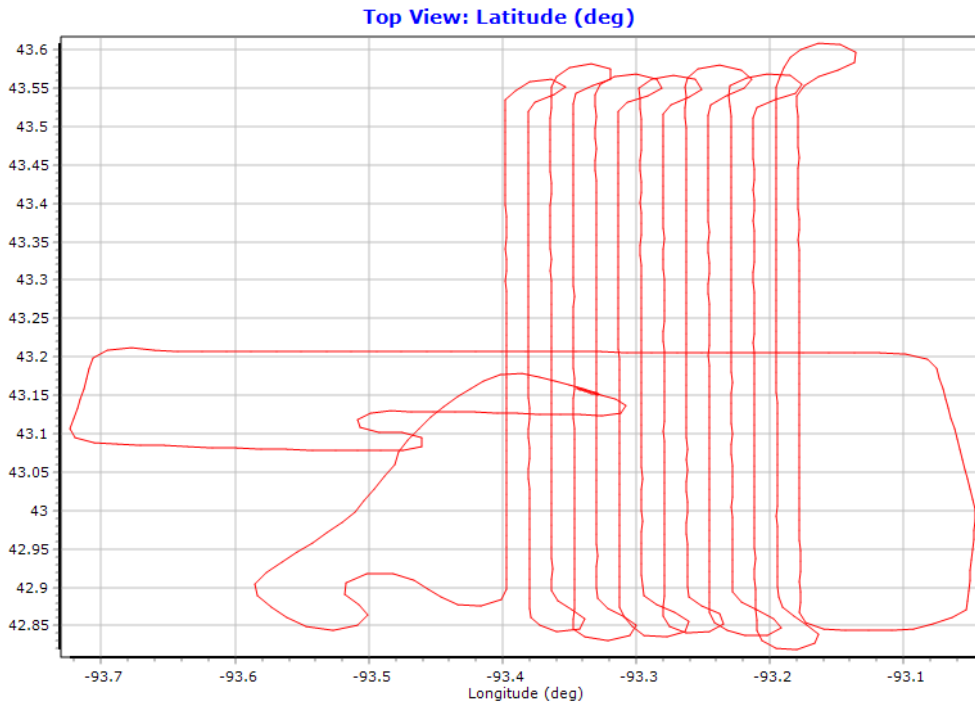


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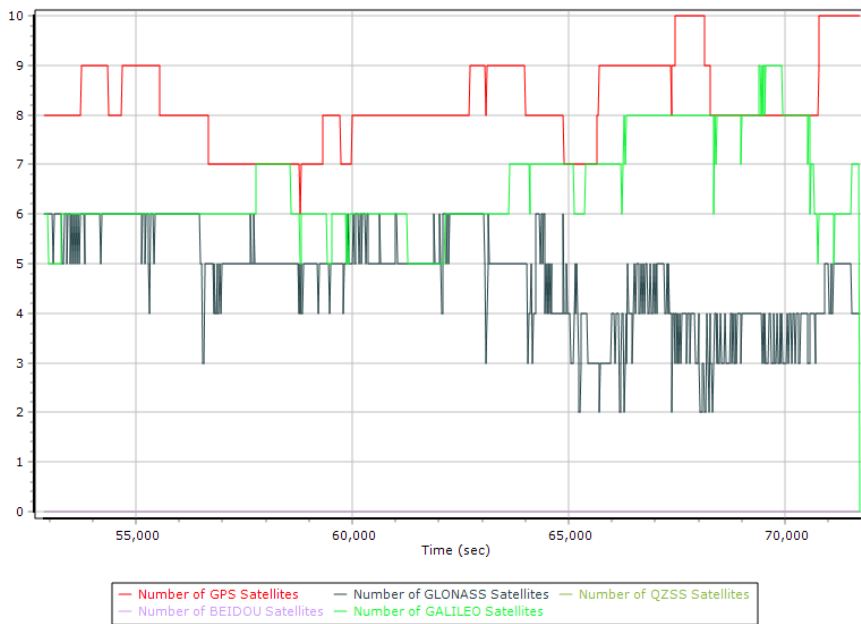


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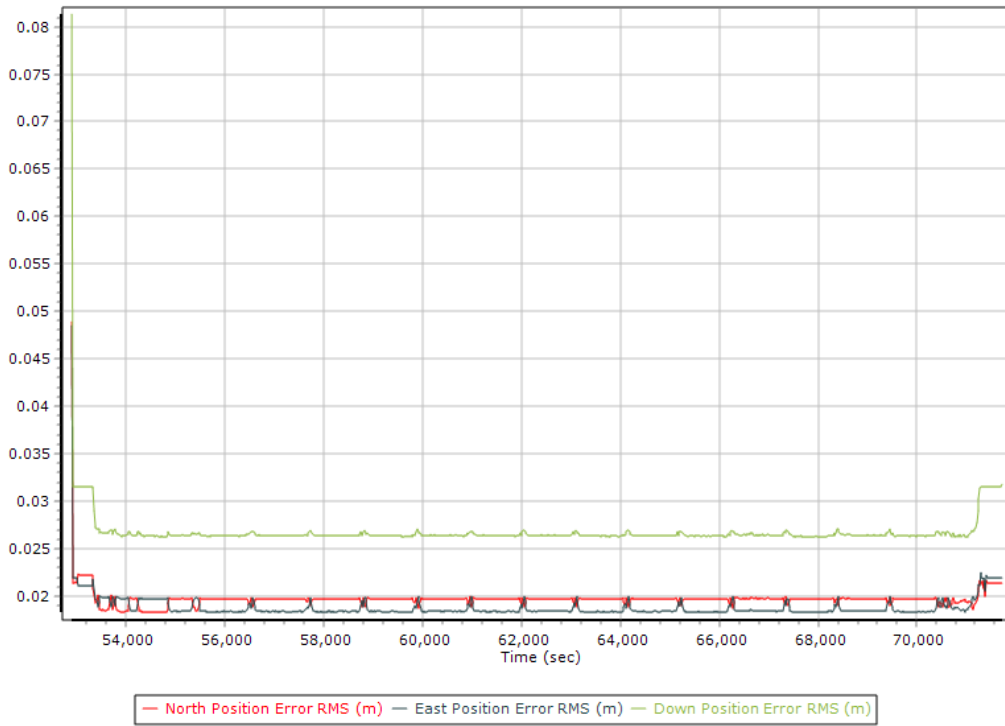
**Top View**



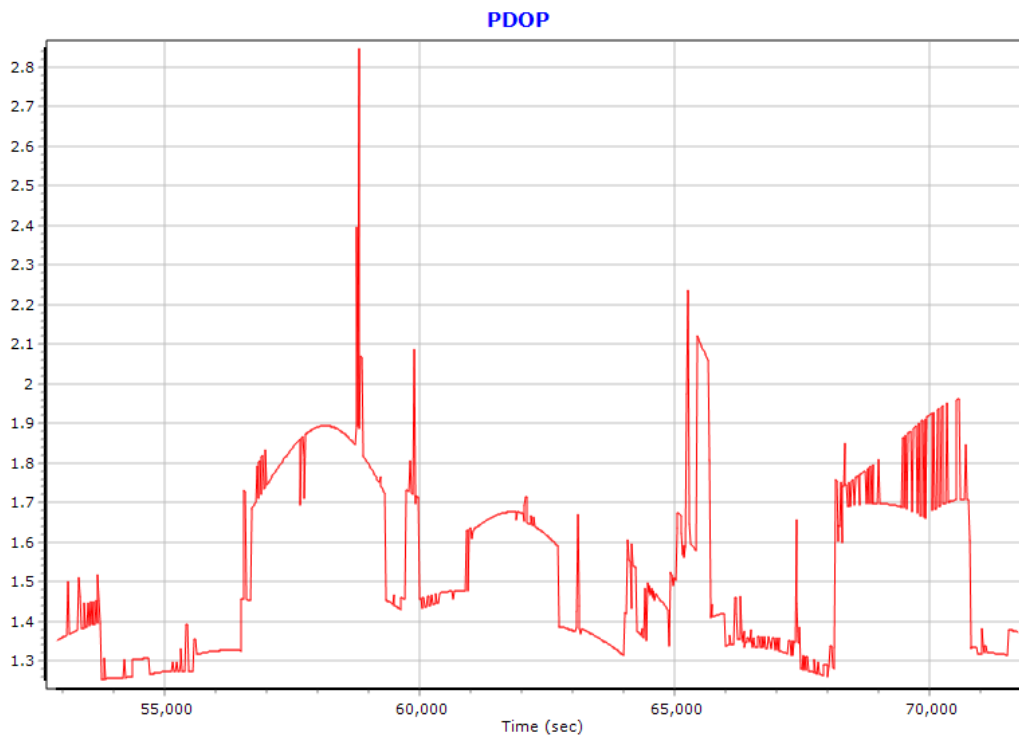
**Number of Satellites**



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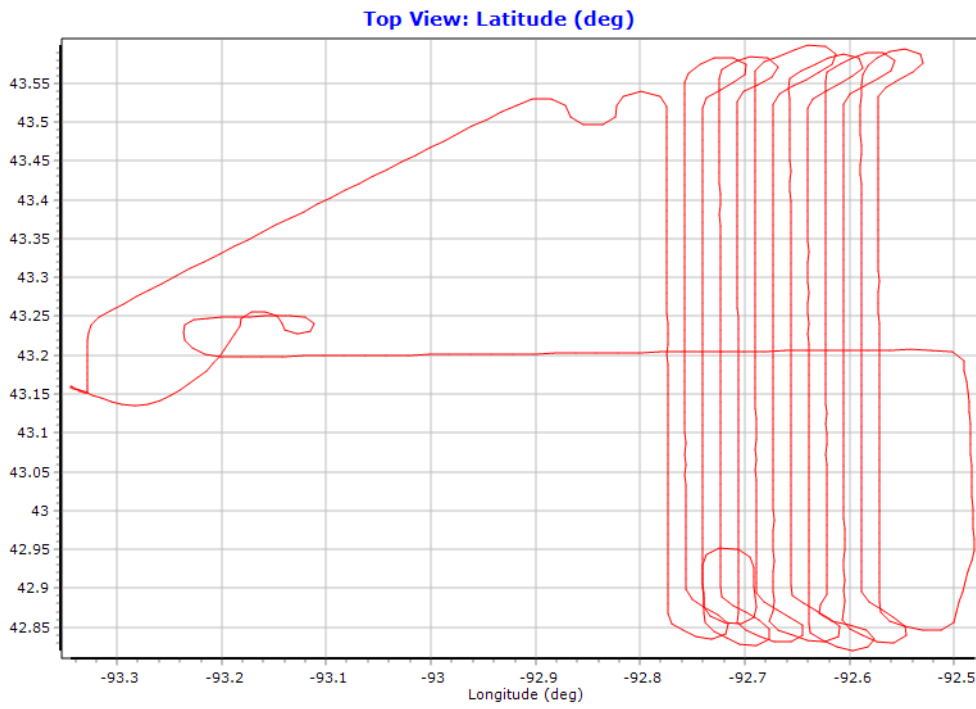


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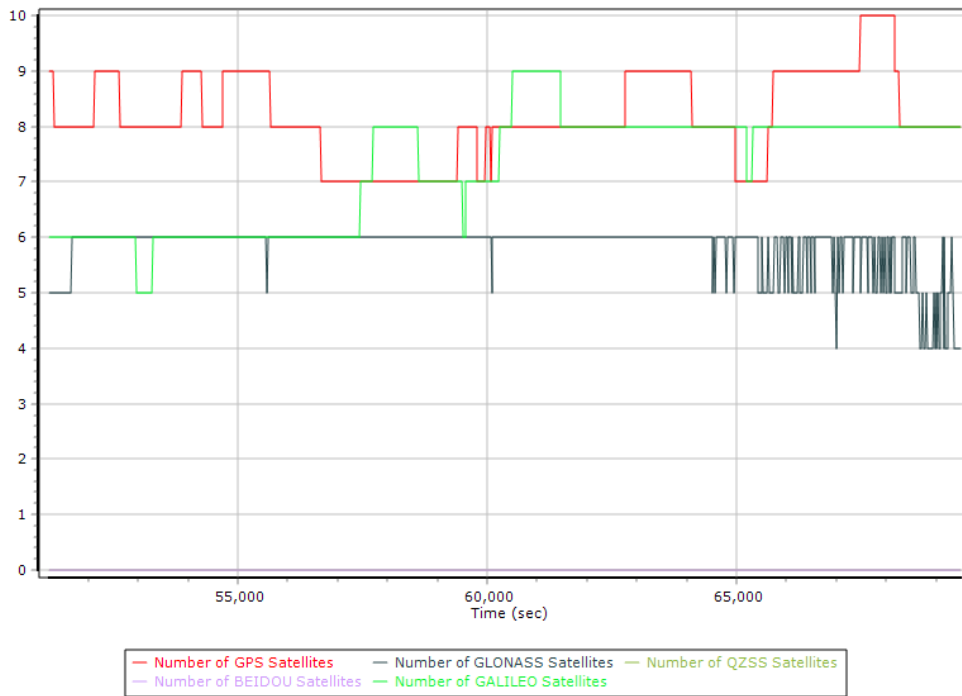


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**Smoothed Trajectory Information**

**Top View**

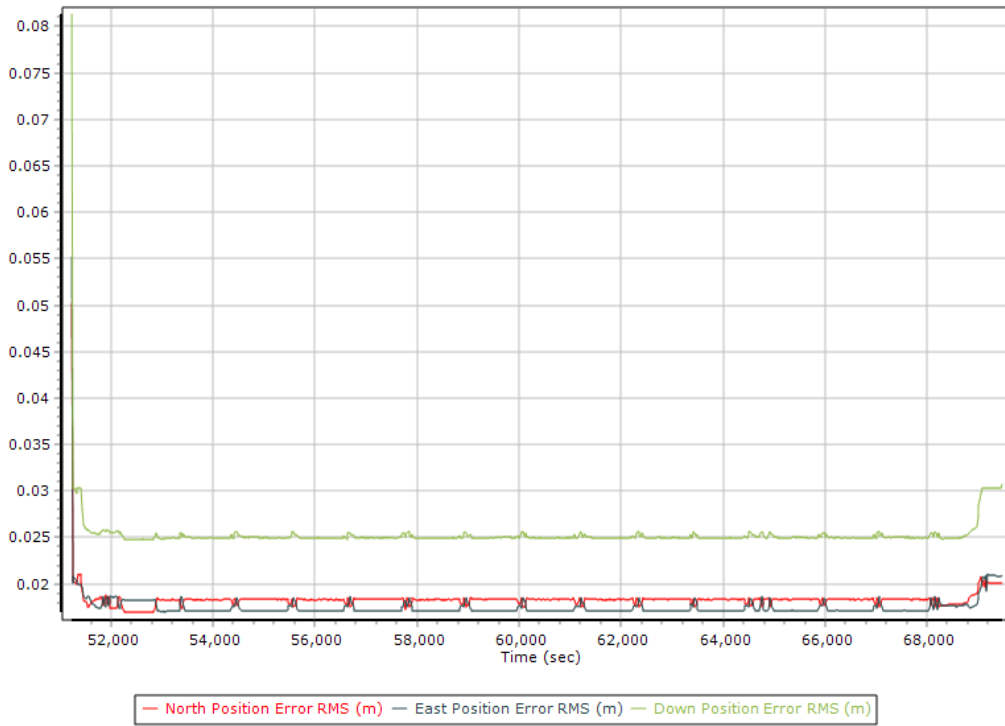


**Number of Satellites**

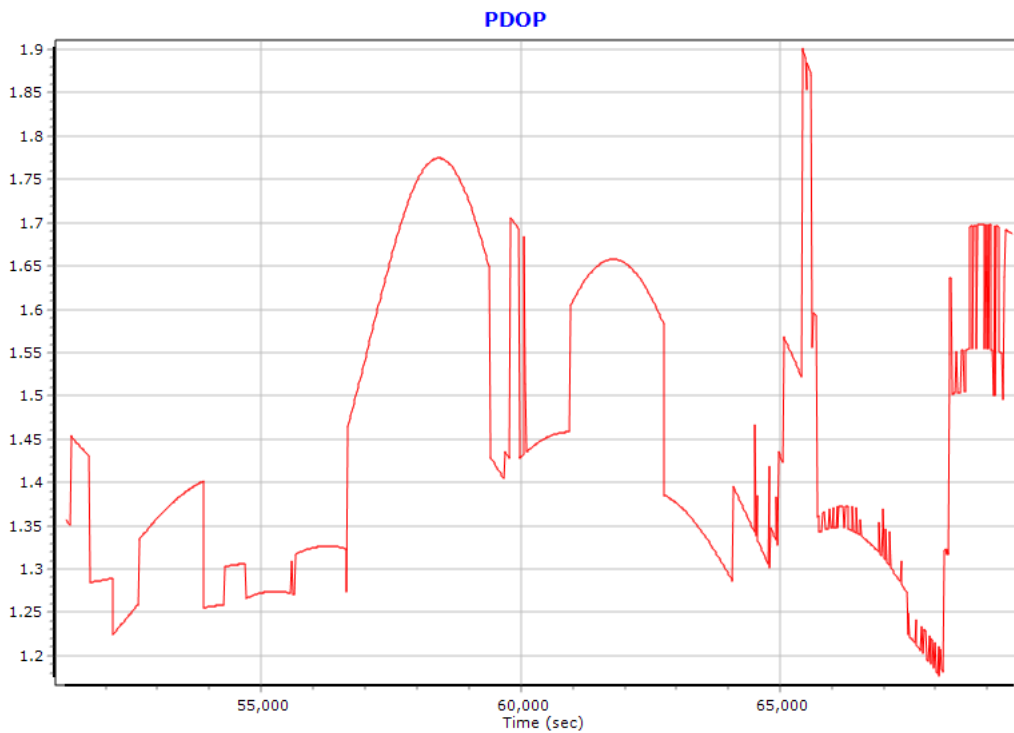




### Forward/Reverse Separation

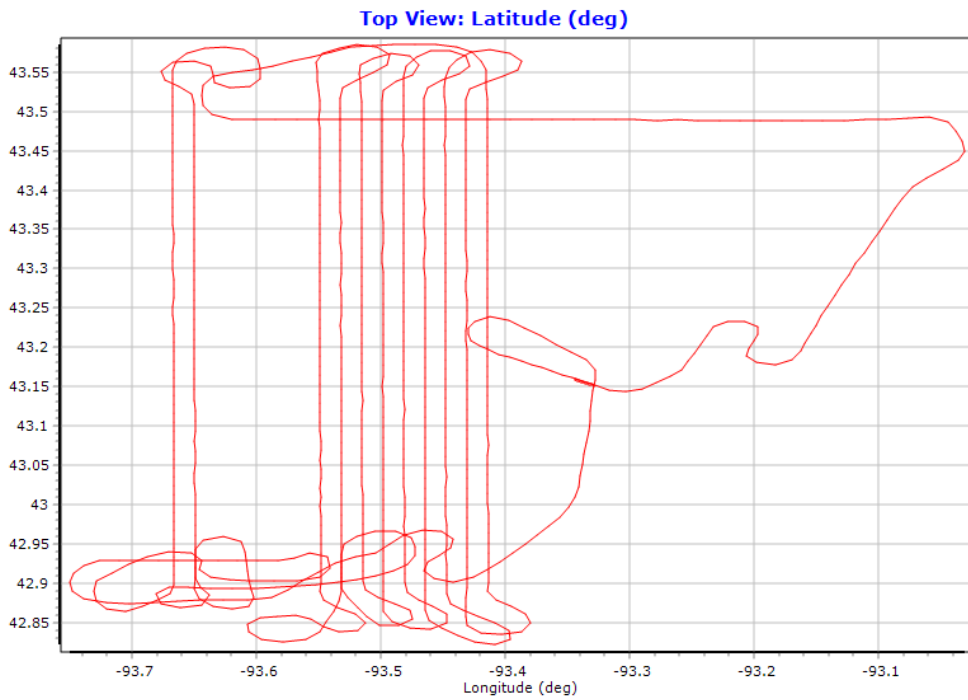


### PDOP

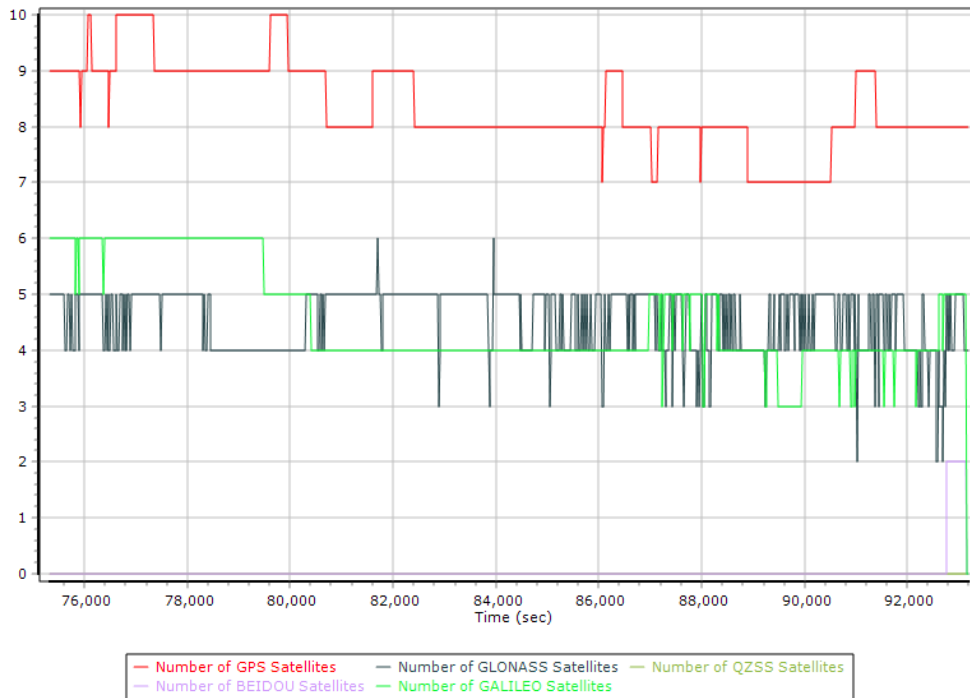


North\_040520B\_4-386.docx - 4/7/2021 09:57:25  
**Smoothed Trajectory Information**

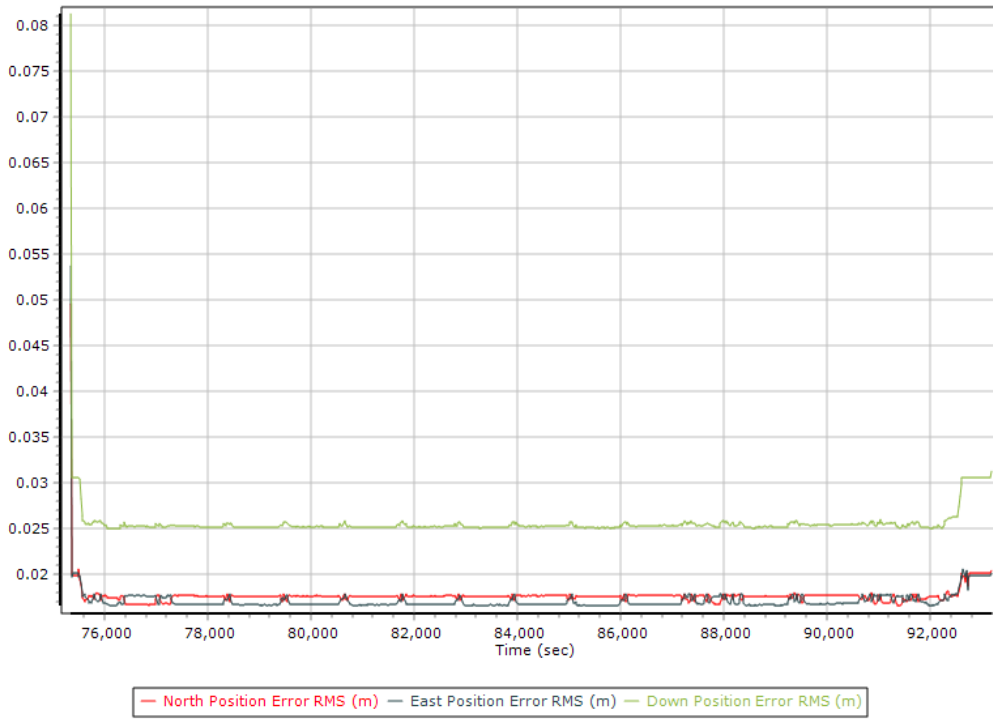
**Top View**



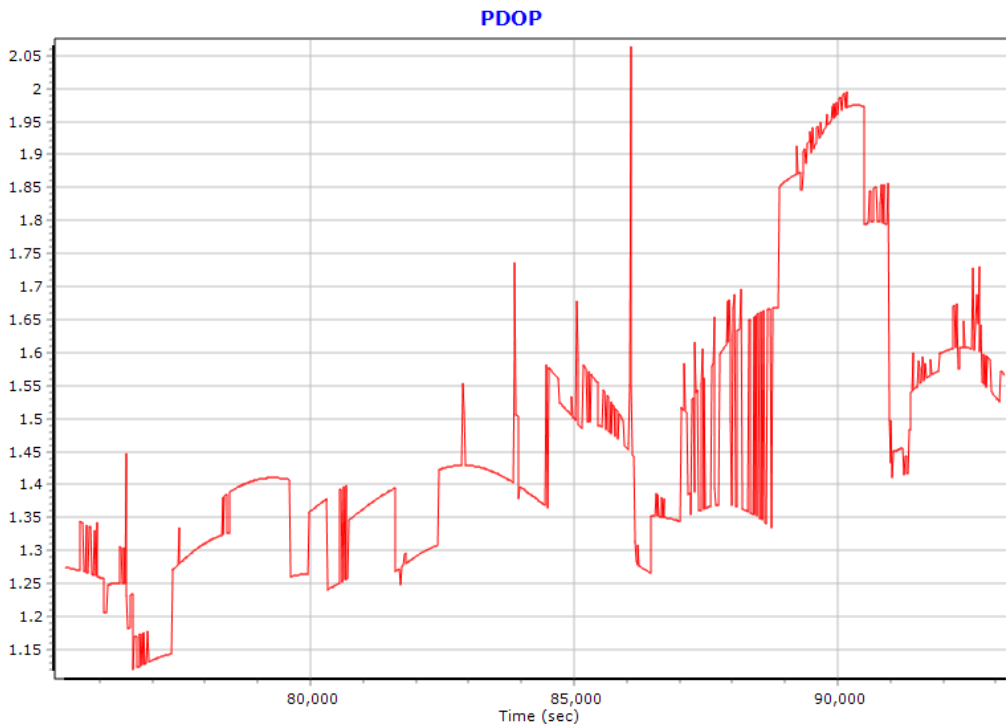
**Number of Satellites**



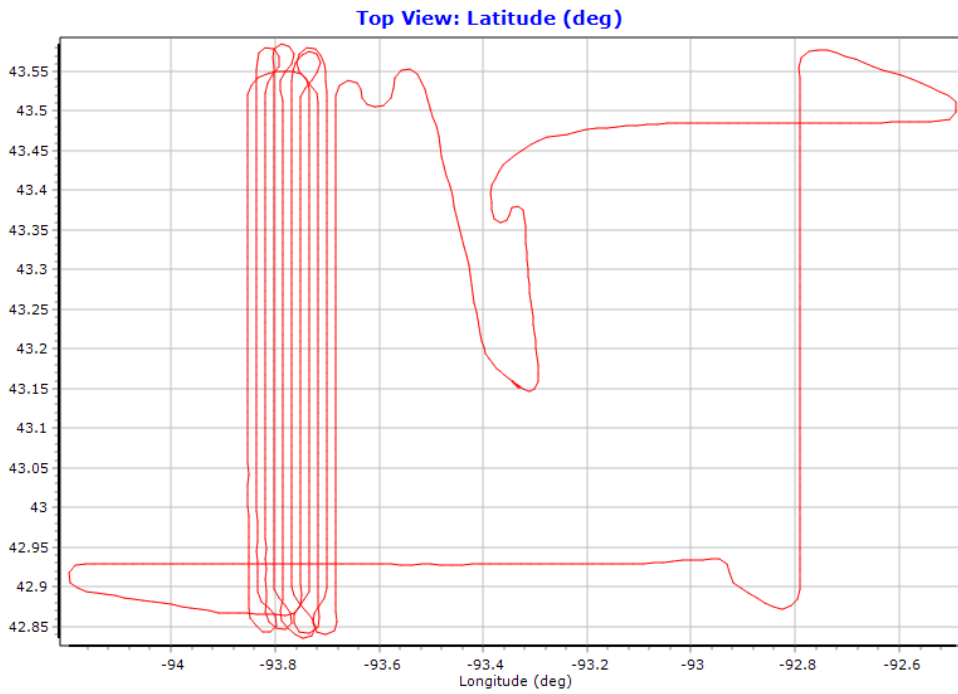
### Forward/Reverse Separation



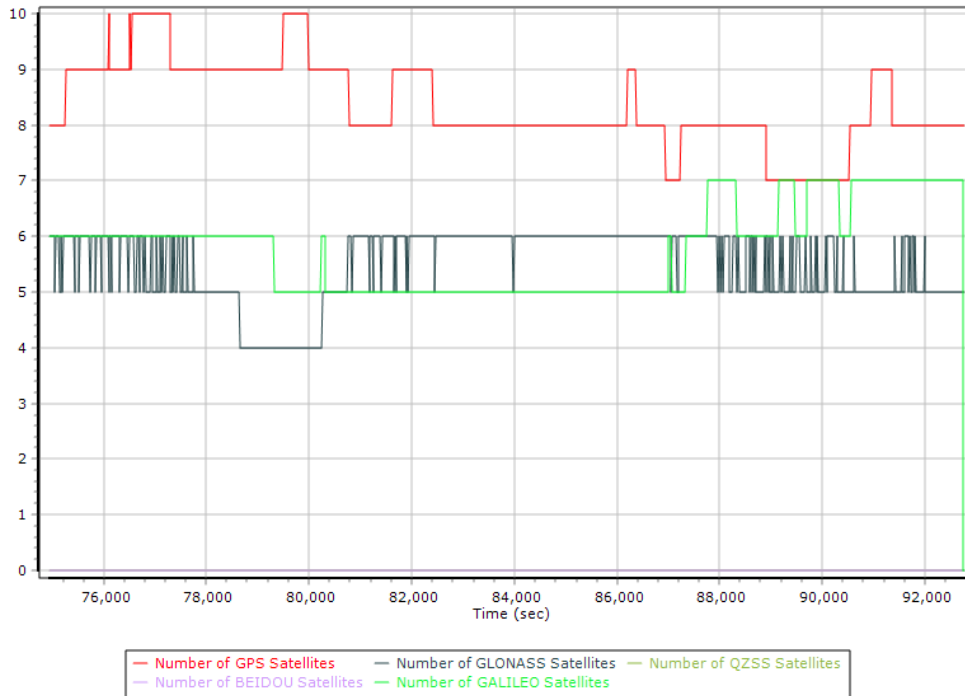
### PDOP



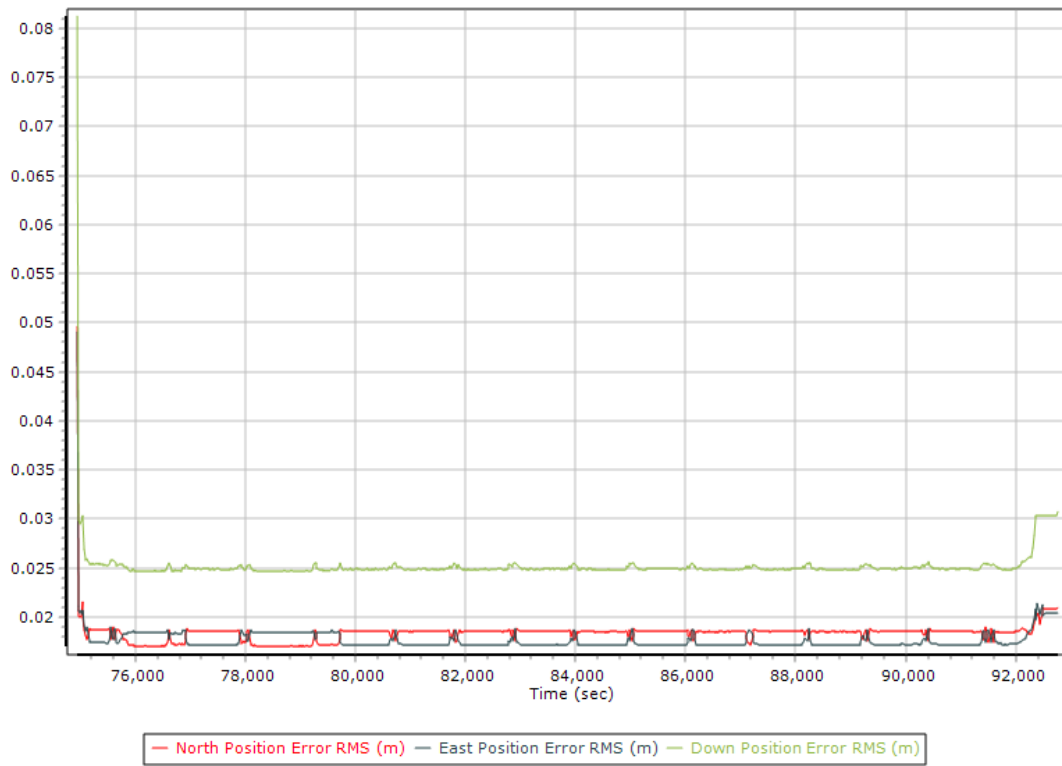
### Top View



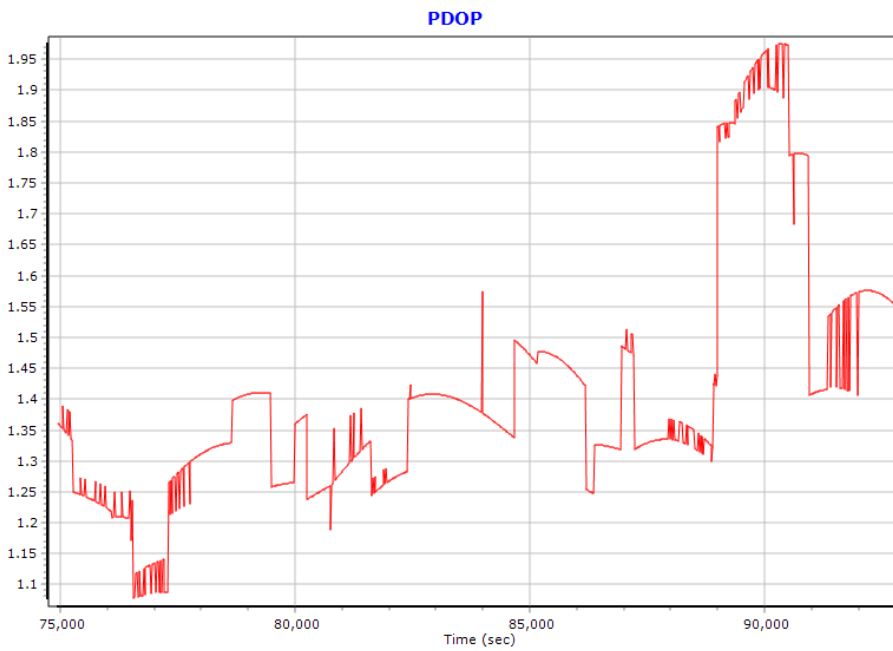
### Number of Satellites



### Forward/Reverse Separation

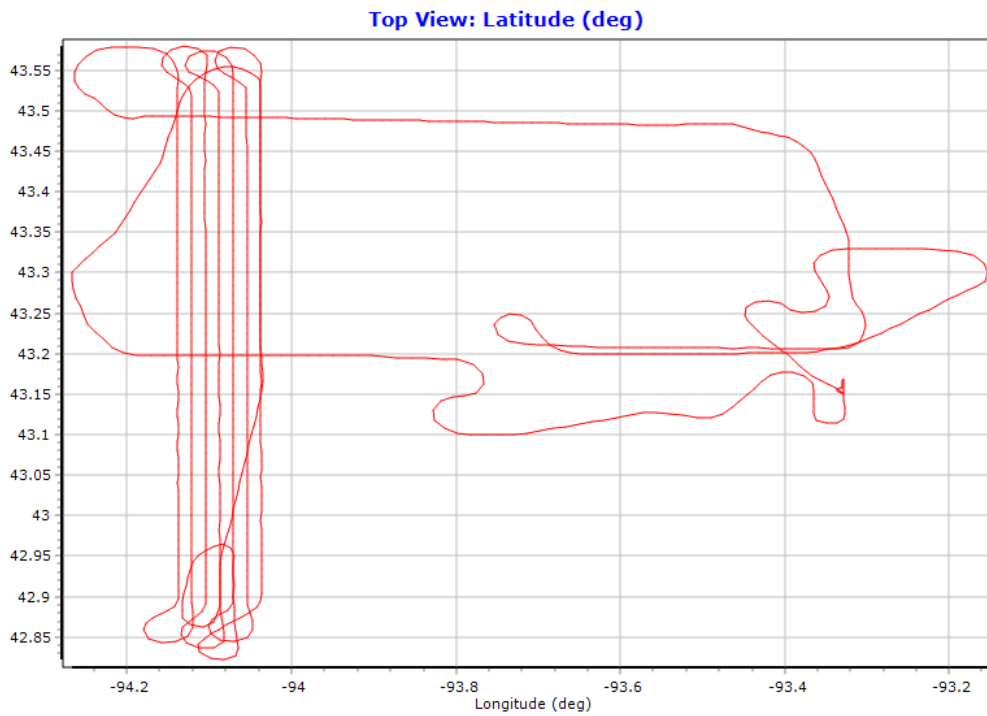


### PDOP

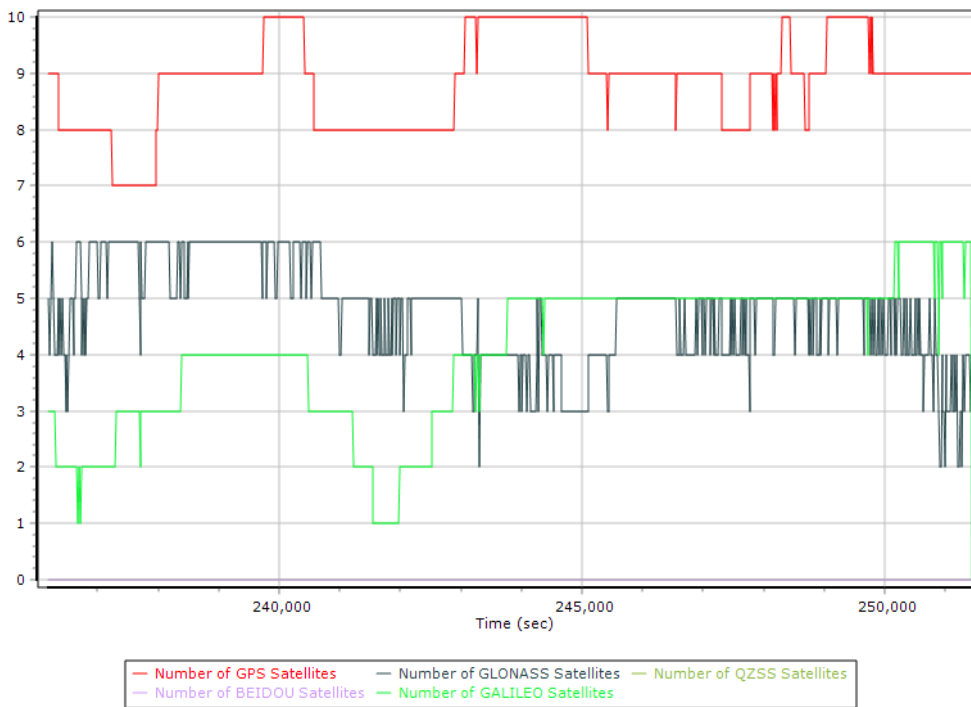


North\_040720A\_5-386.docx - 04/07/2020 09:52:17  
**Smoothed Trajectory Information**

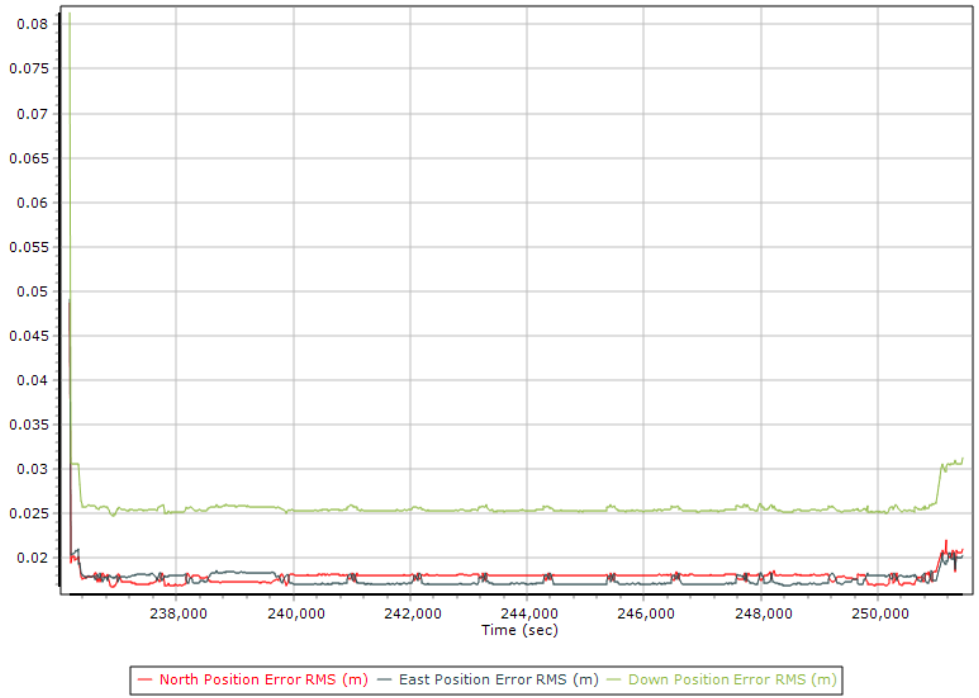
**Top View**



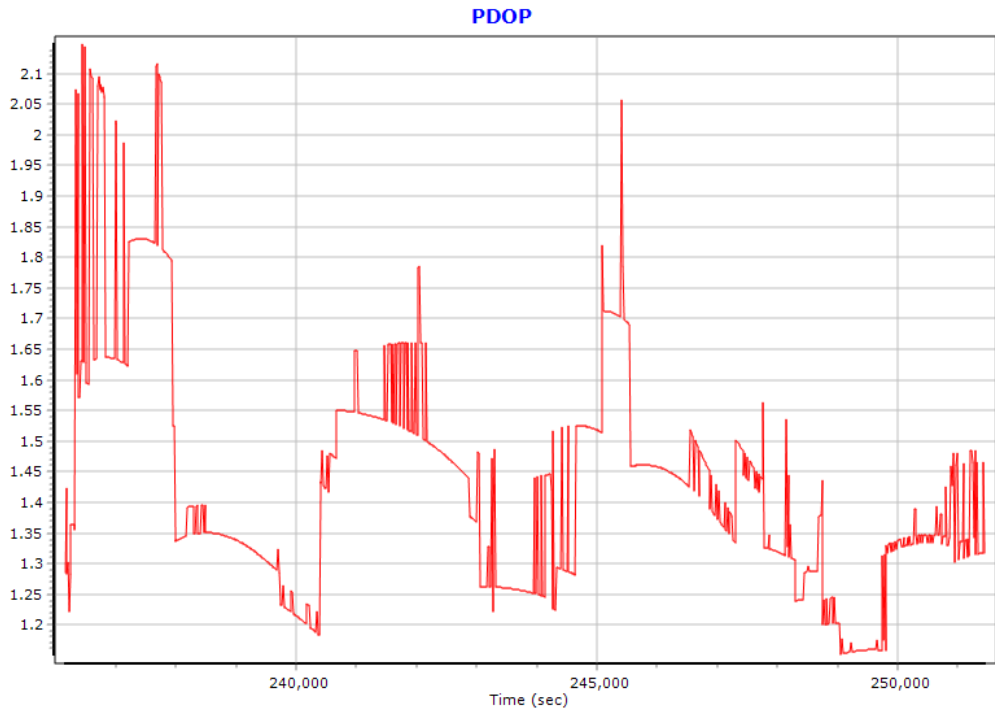
**Number of Satellites**



### Forward/Reverse Separation

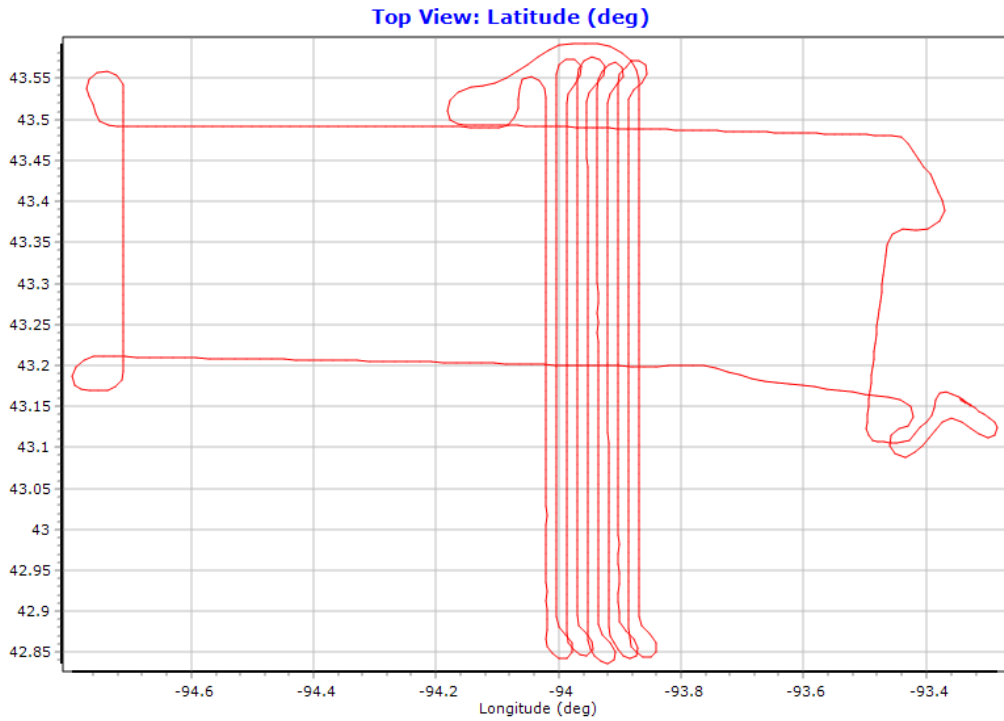


### PDOP

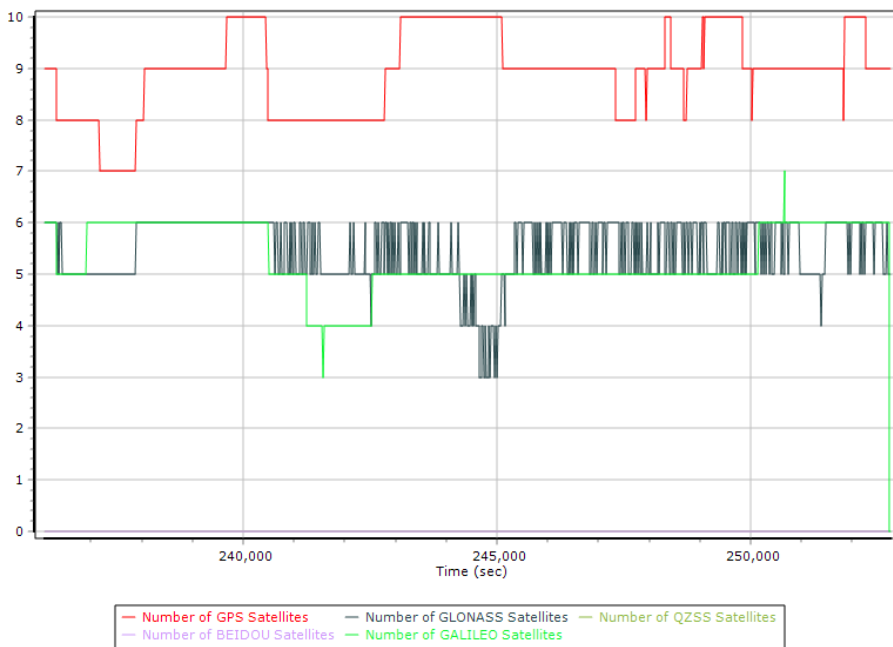


North\_040720A\_5-442.docx - 04/07/2020 11:27:44  
**Smoothed Trajectory Information**

**Top View**

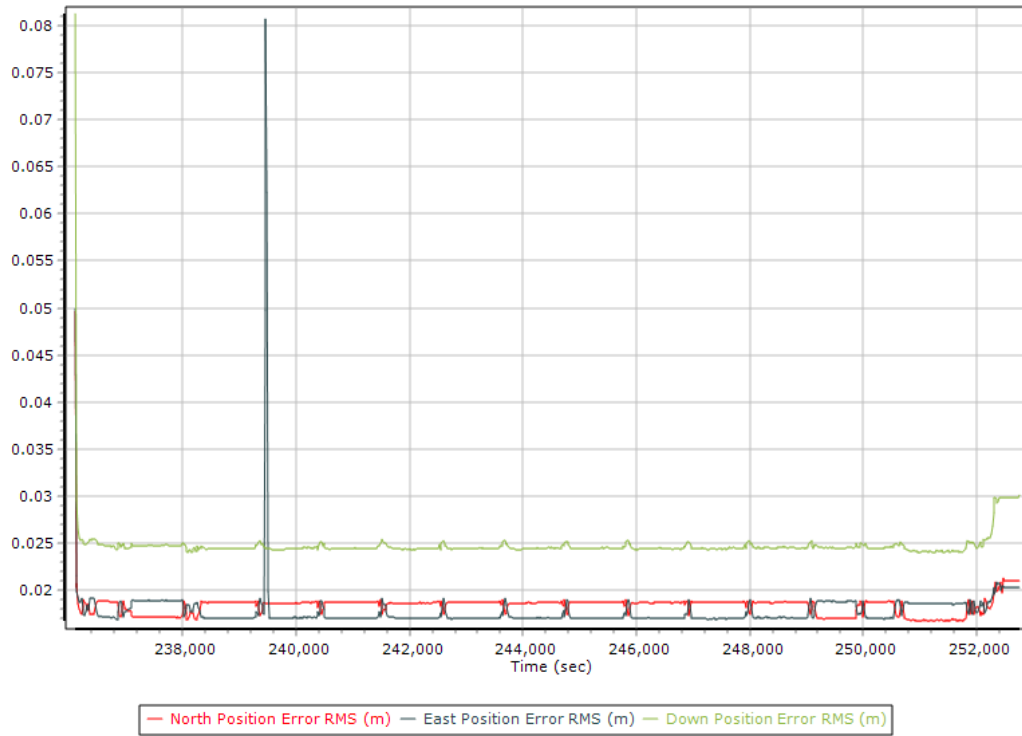


**Number of Satellites**

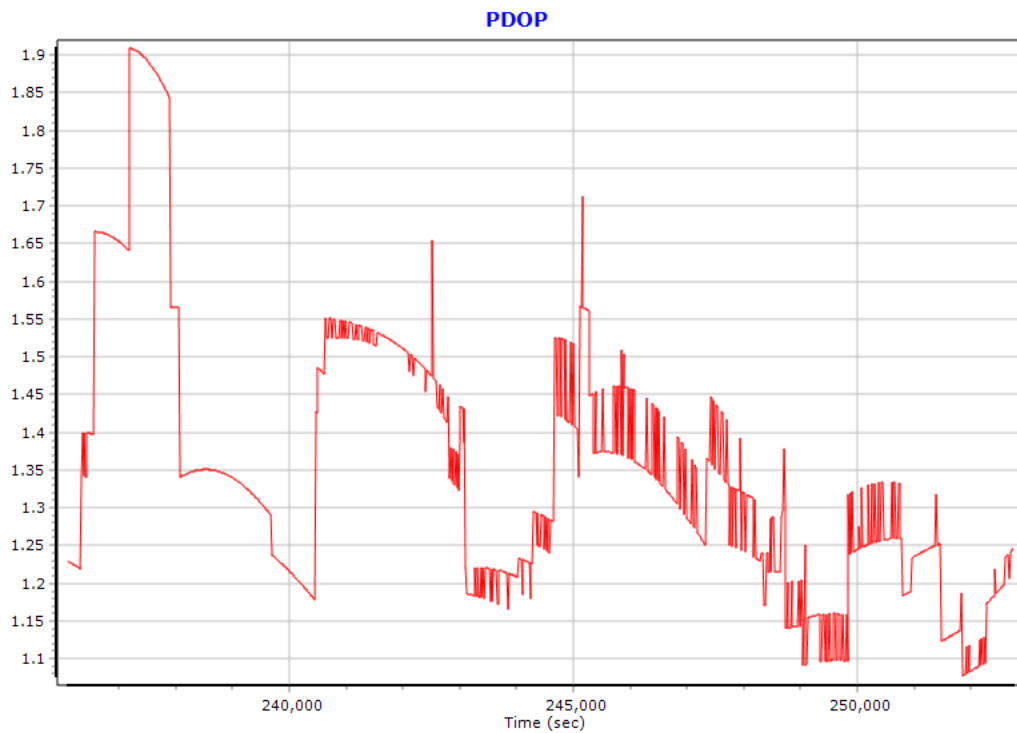


**Forward/Reverse Separation**



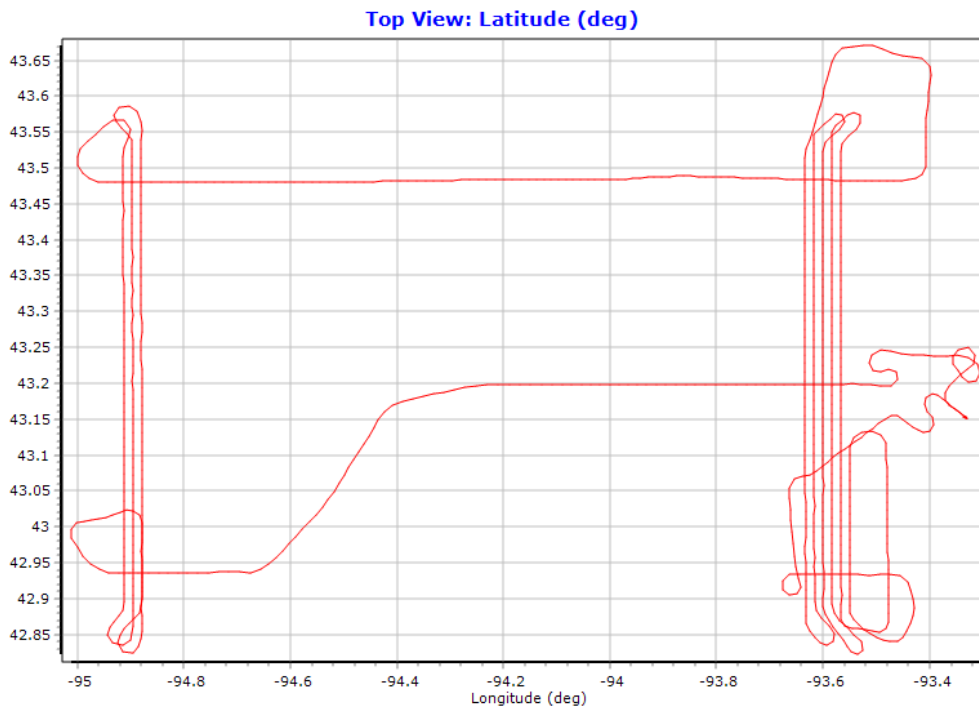


## PDOP

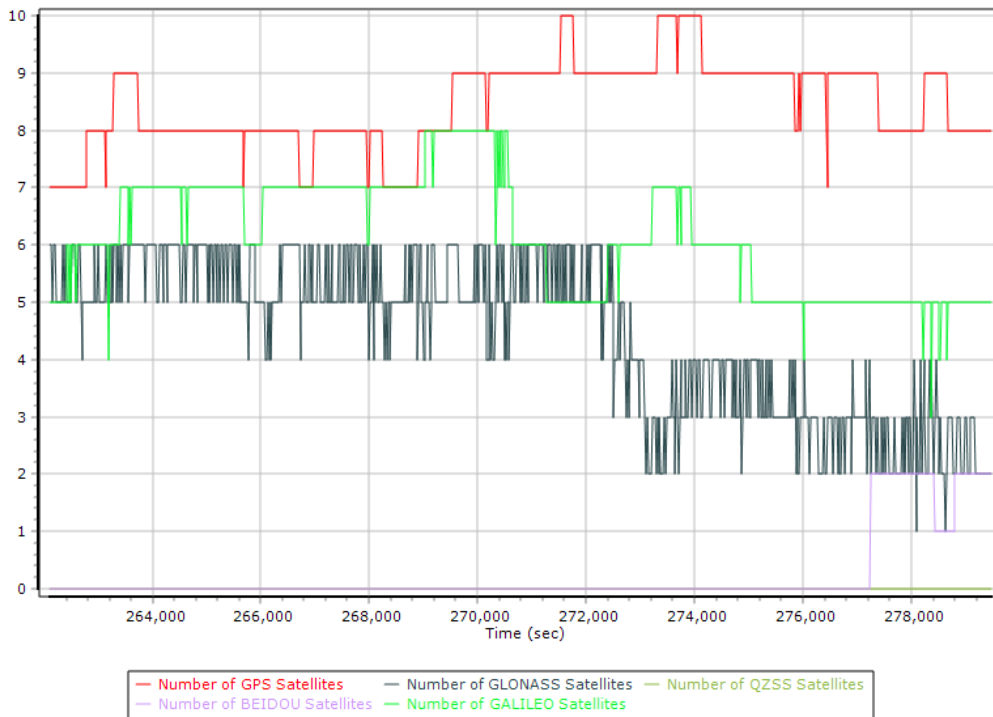


North\_040720B\_6-386.docx - 4/07/2021 10:00:06  
**Smoothed Trajectory Information**

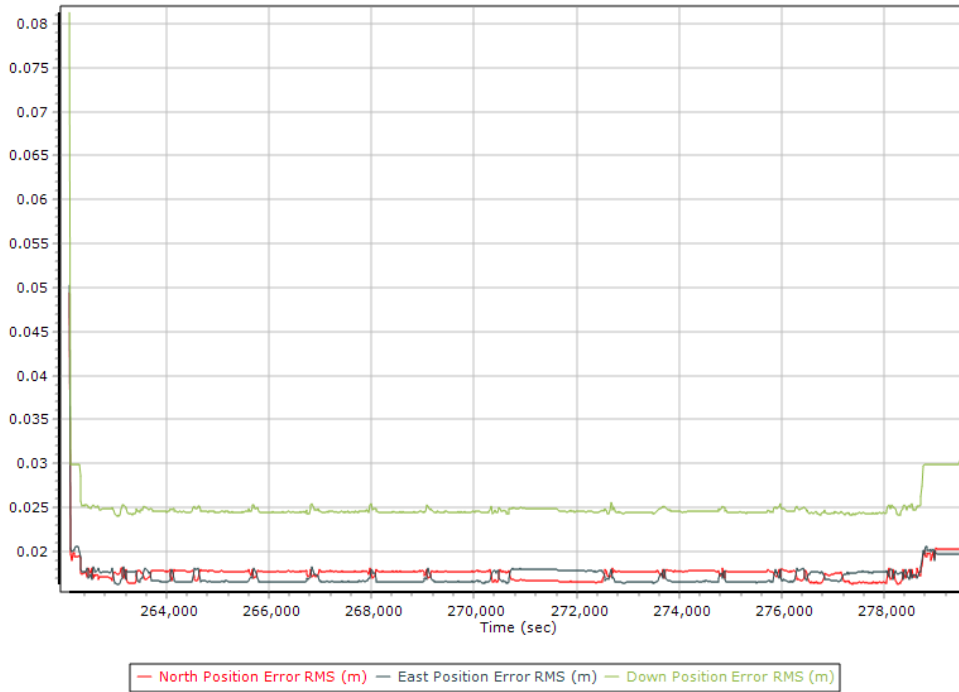
### Top View



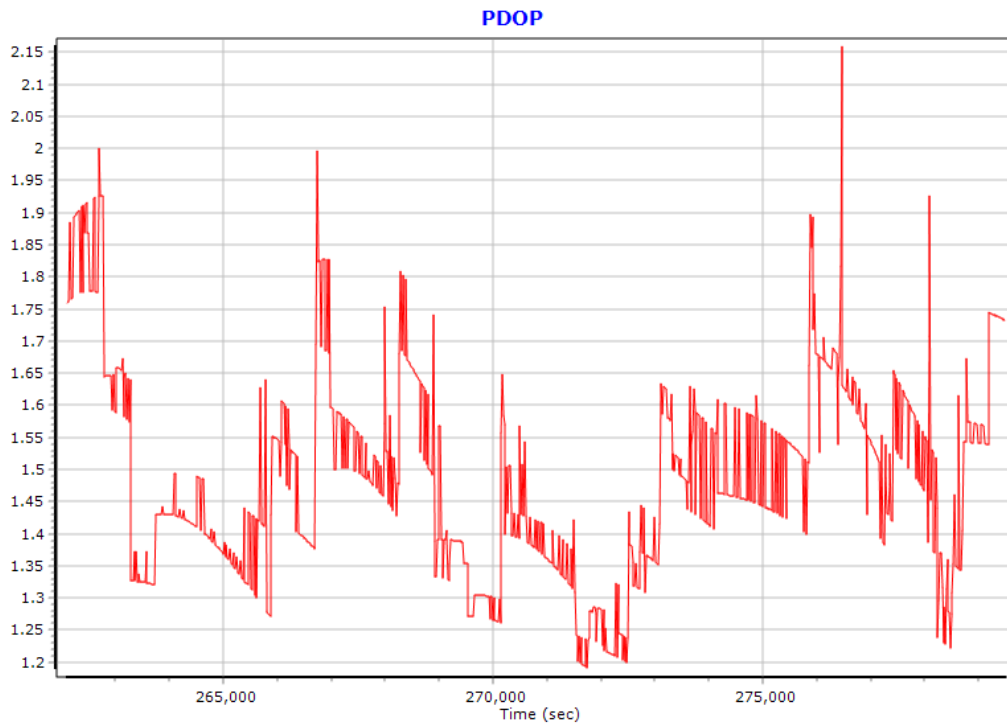
### Number of Satellites



### Forward/Reverse Separation

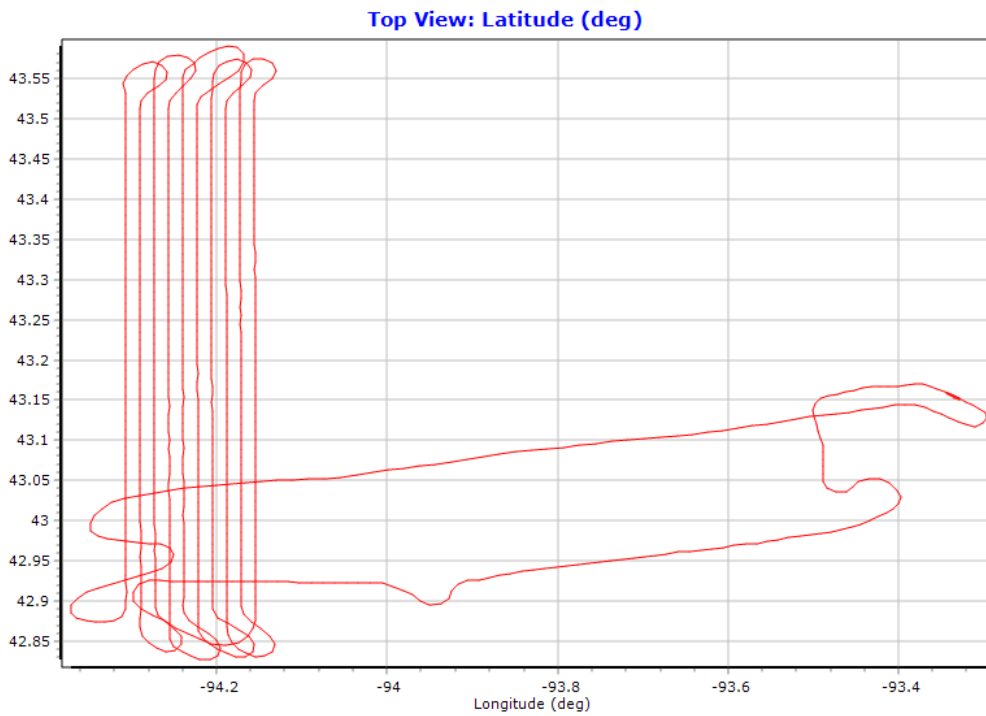


### PDOP

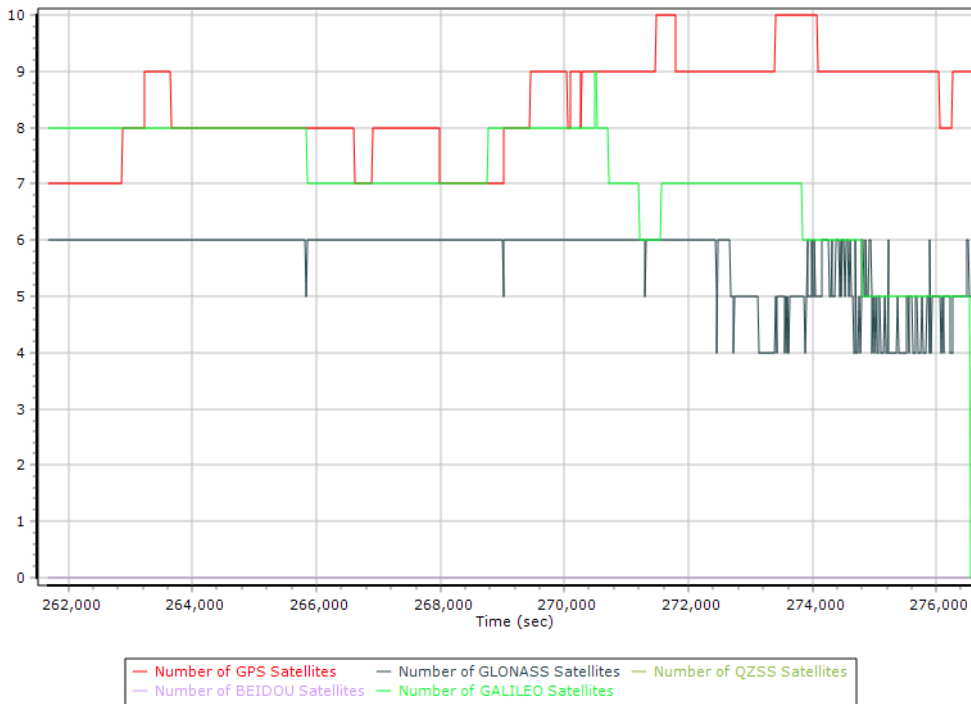


North\_040720B\_6-442.docx - 4/07/2021 11:30:08  
**Smoothed Trajectory Information**

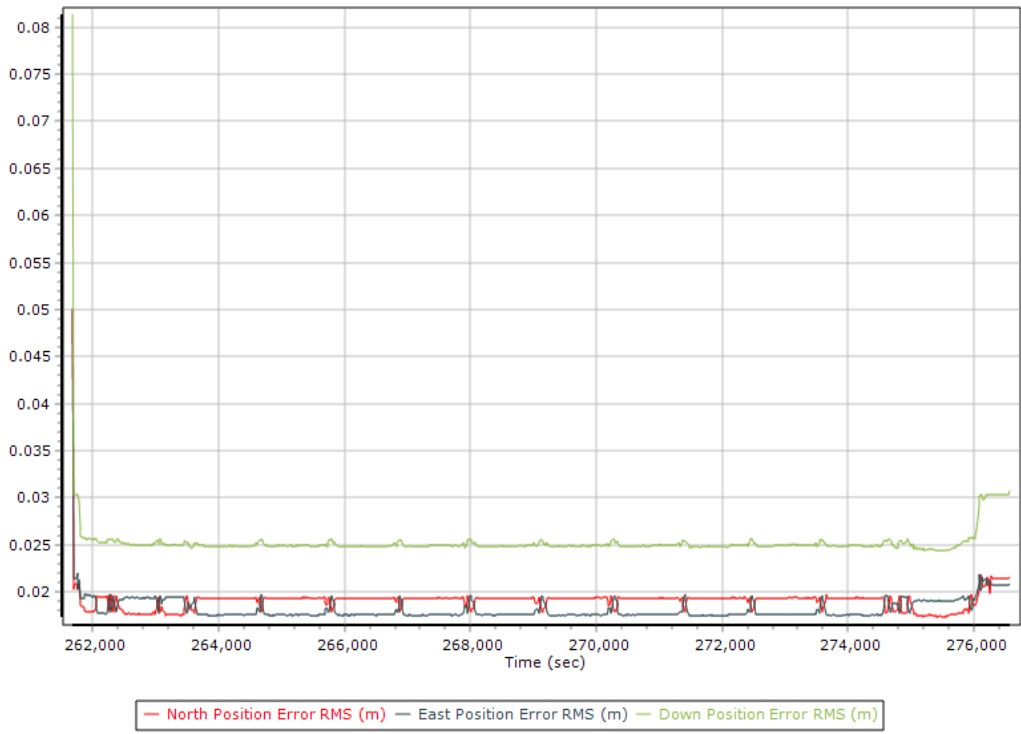
### Top View



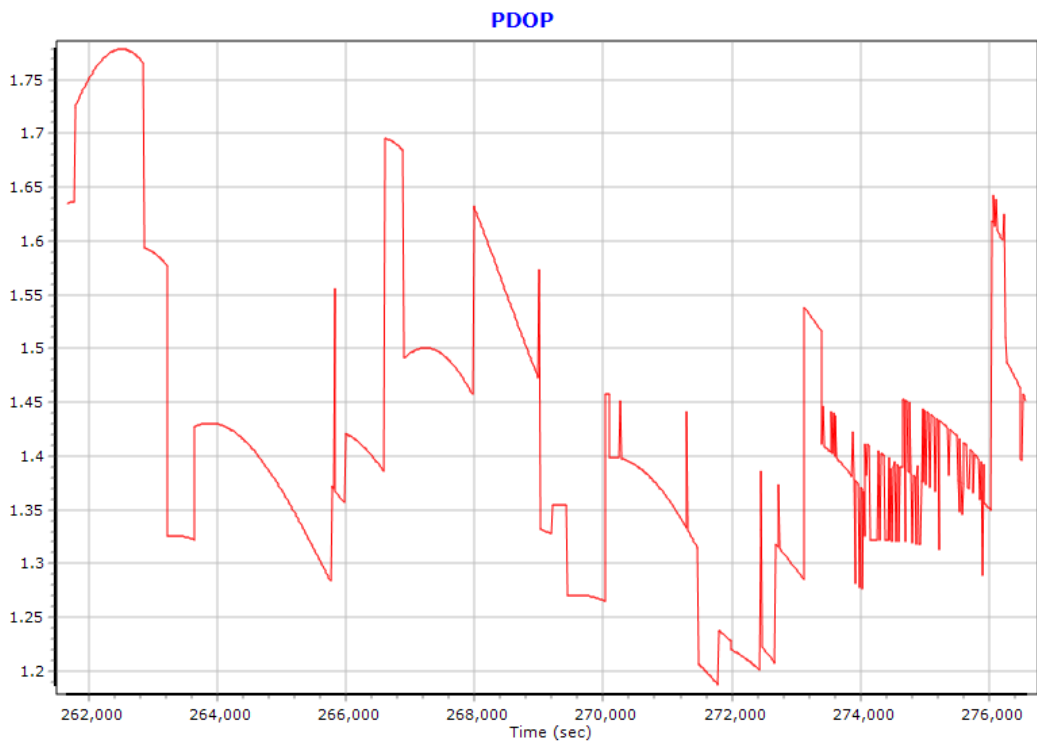
### Number of Satellites



### Forward/Reverse Separation

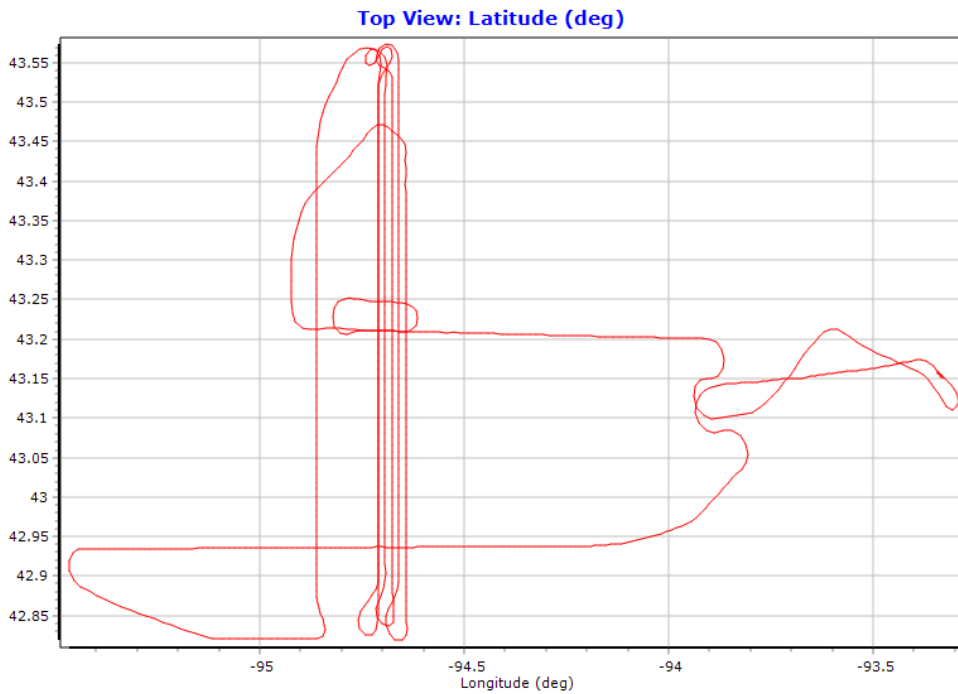


### PDOP

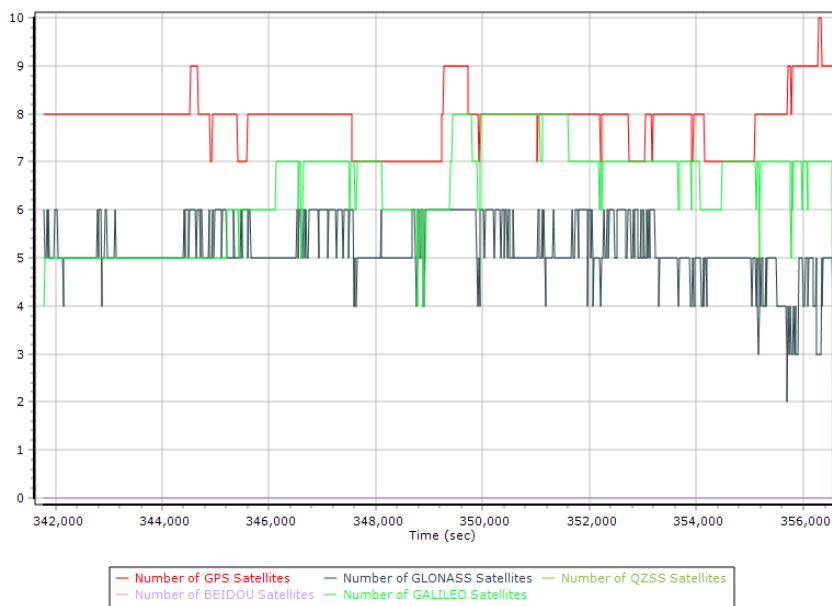


North\_040820A\_7-386.docx - 4/07/2021 10:03:03  
**Smoothed Trajectory Information**

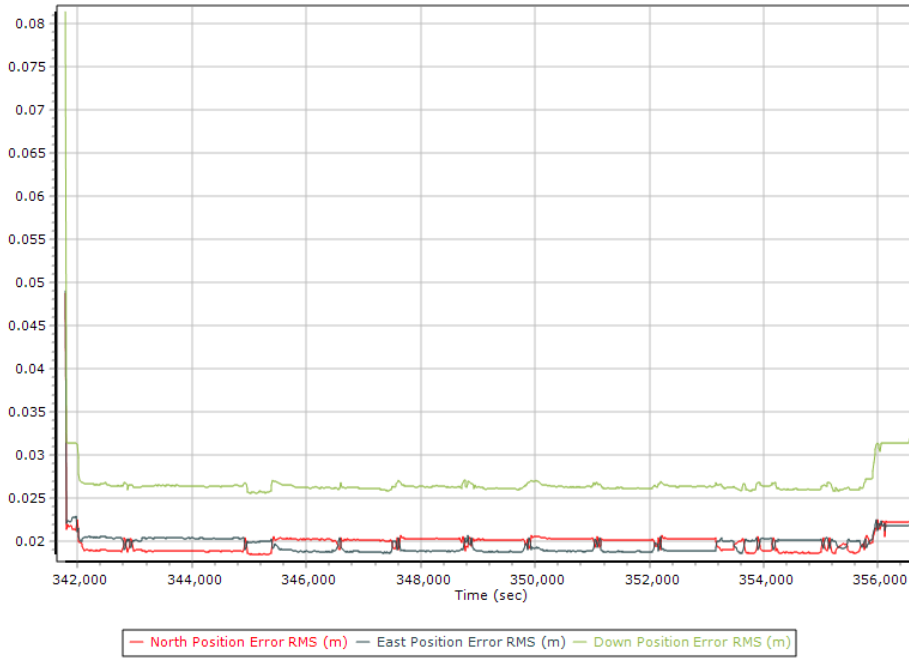
**Top View**



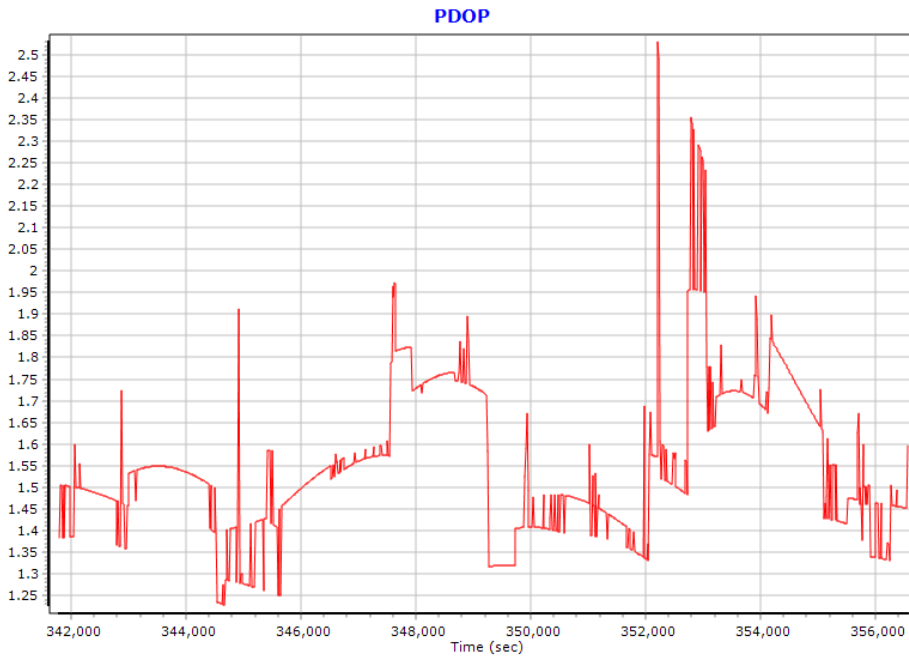
**Number of Satellites**



### Forward/Reverse Separation

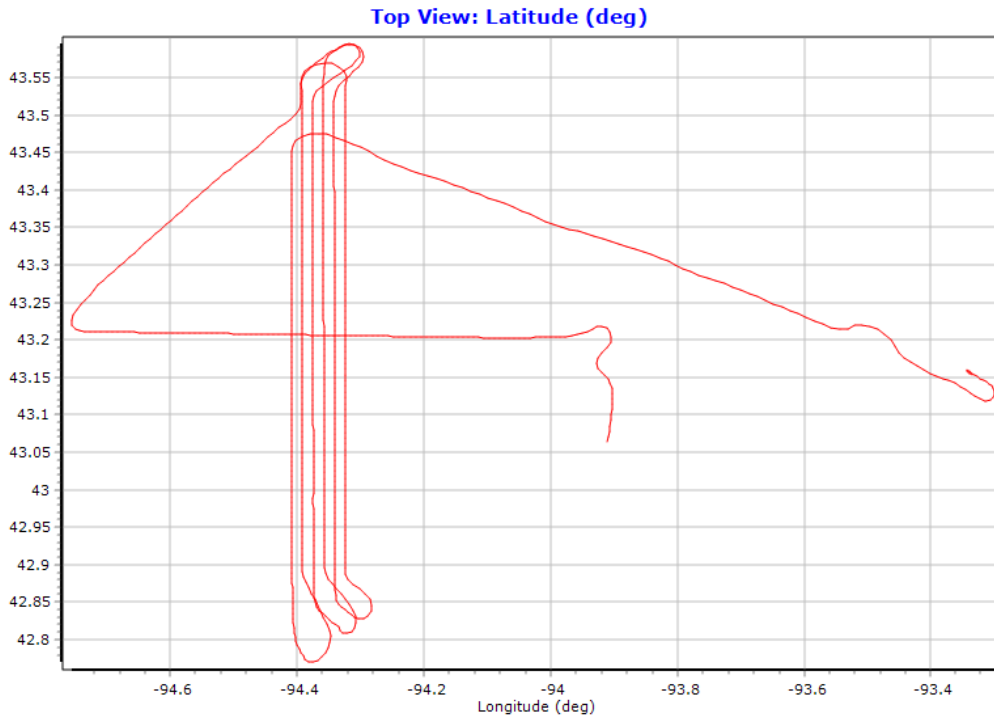


### PDOP

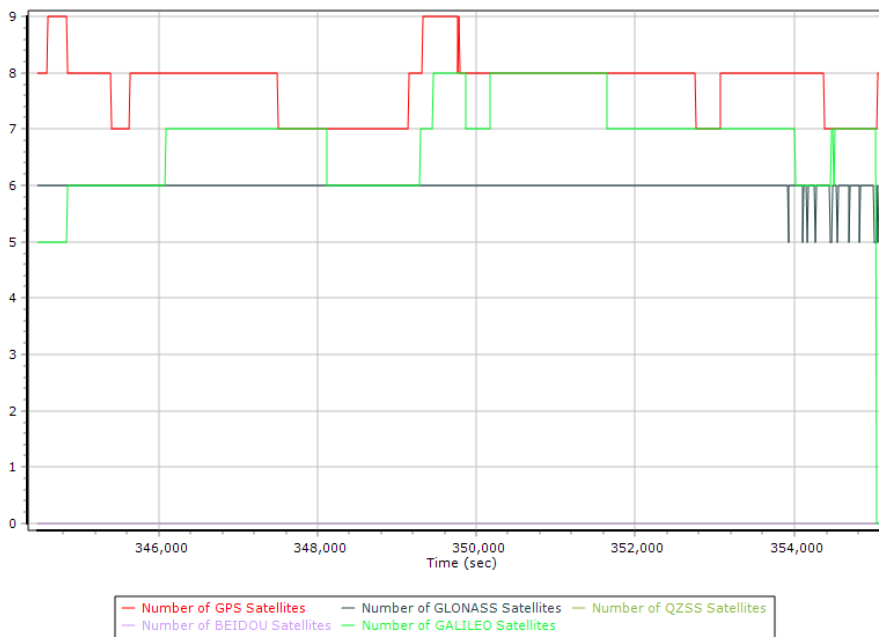


North\_040820A\_7-442.docx - 4/07/2021 11:32:11  
**Smoothed Trajectory Information**

### Top View

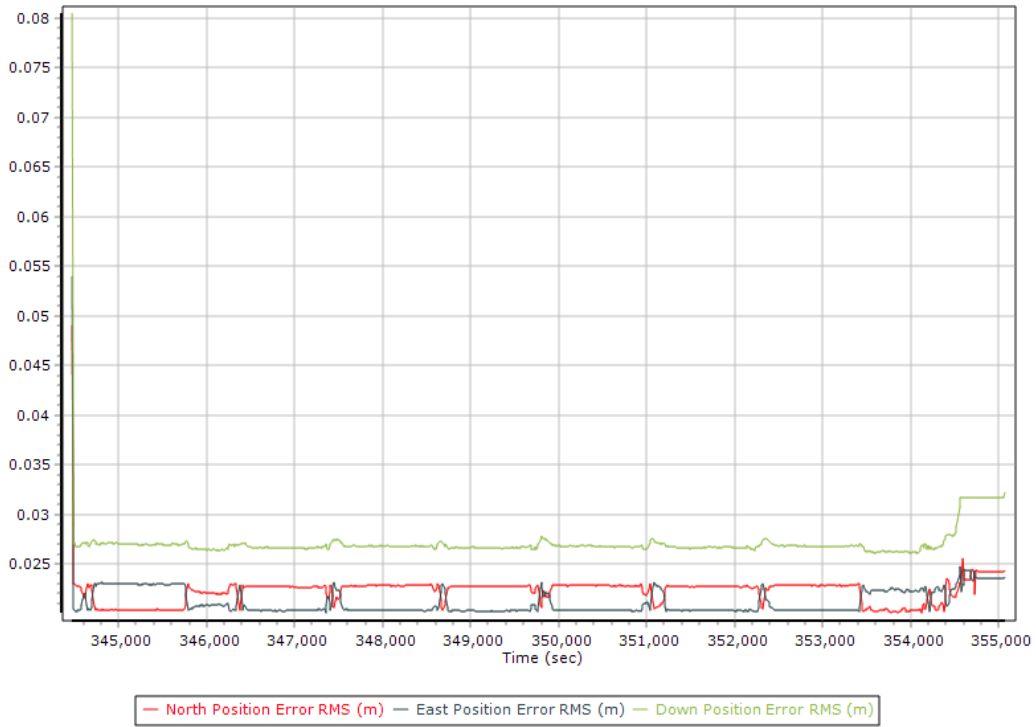


### Number of Satellites

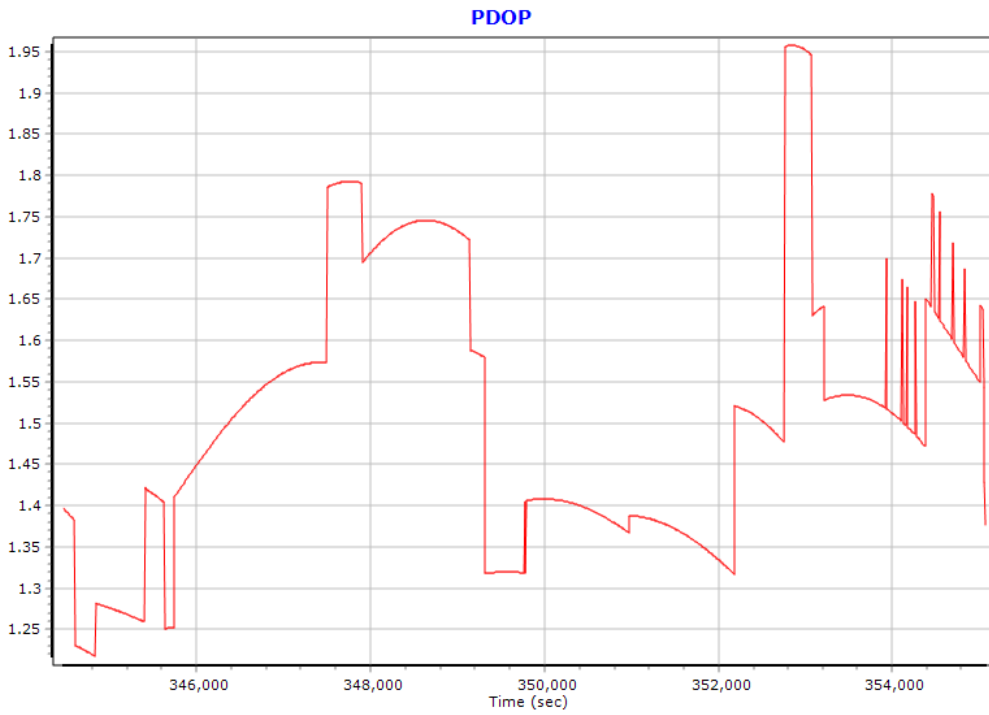


### Forward/Reverse Separation



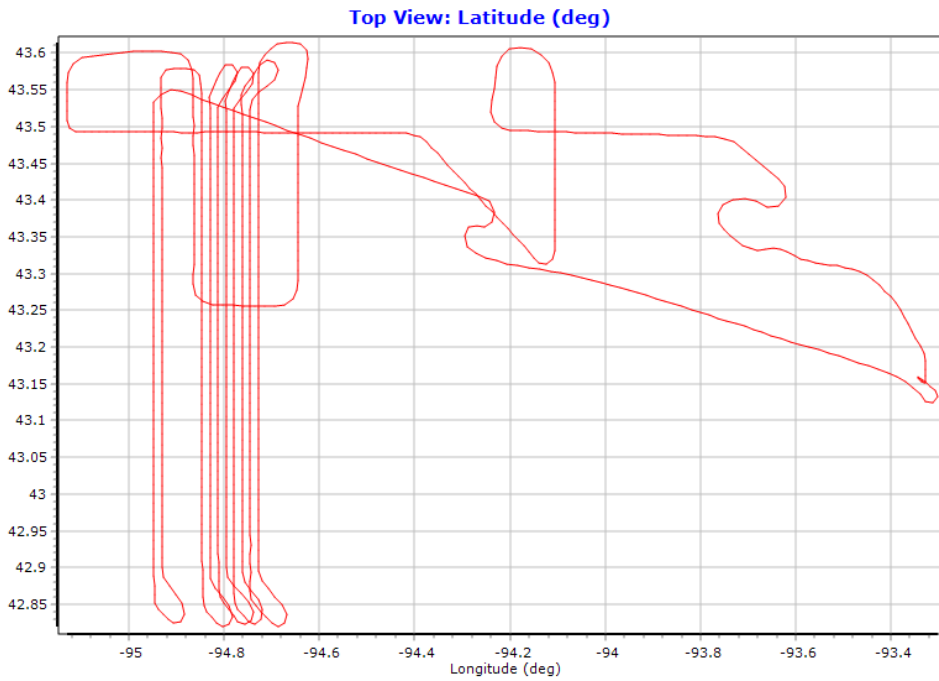


## PDOP

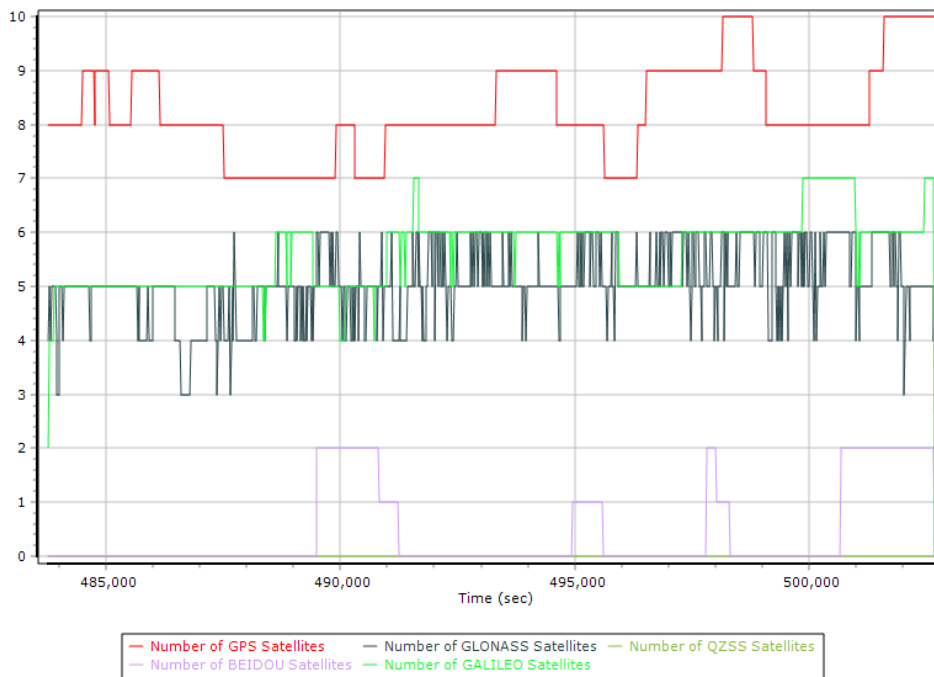


North\_041020A\_8-386.docx - 4/07/2021 10:06:22  
**Smoothed Trajectory Information**

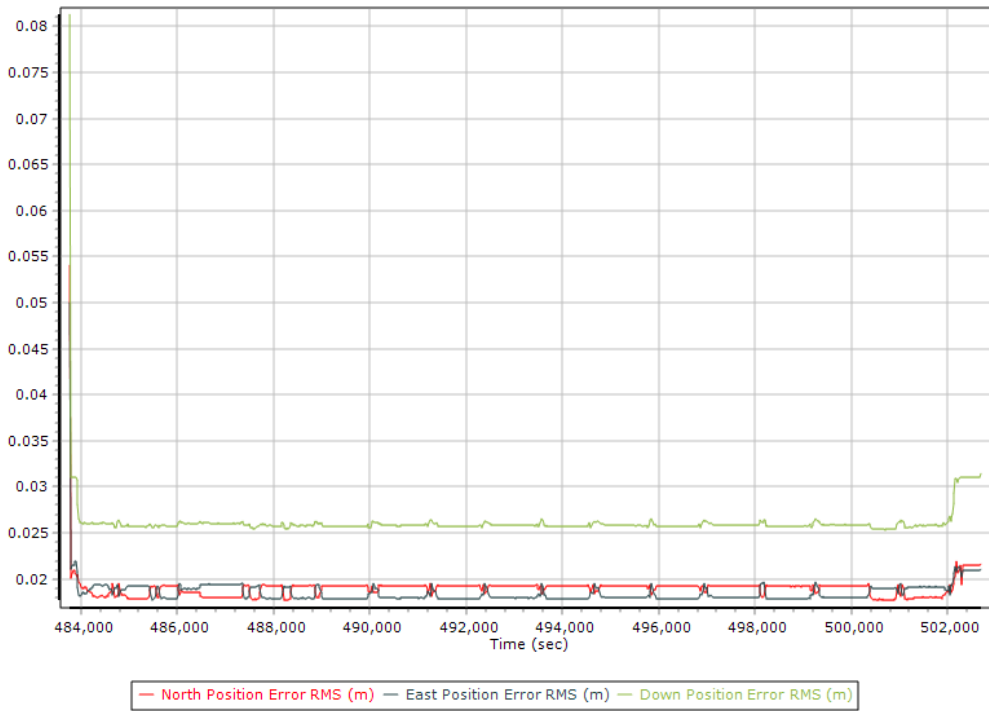
**Top View**



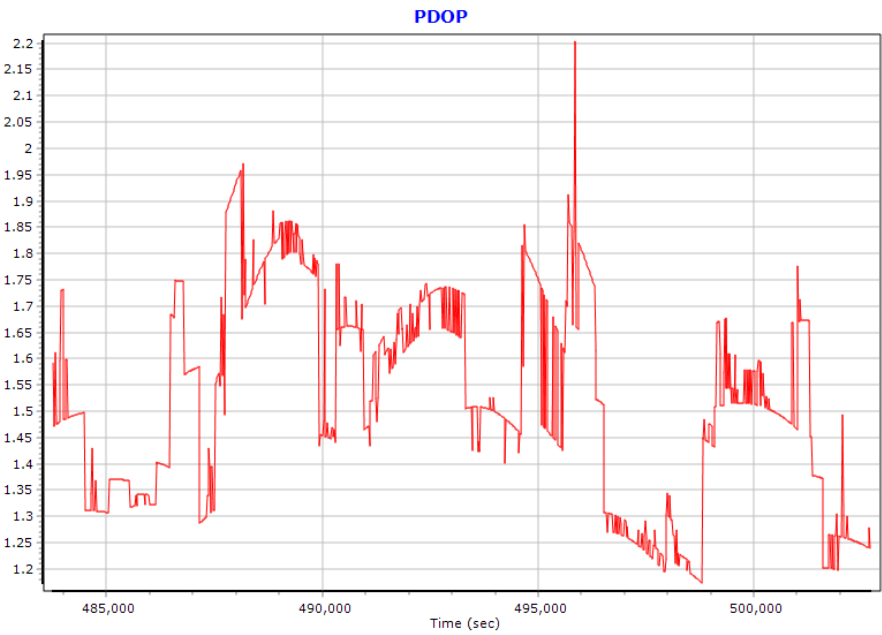
**Number of Satellites**



### Forward/Reverse Separation

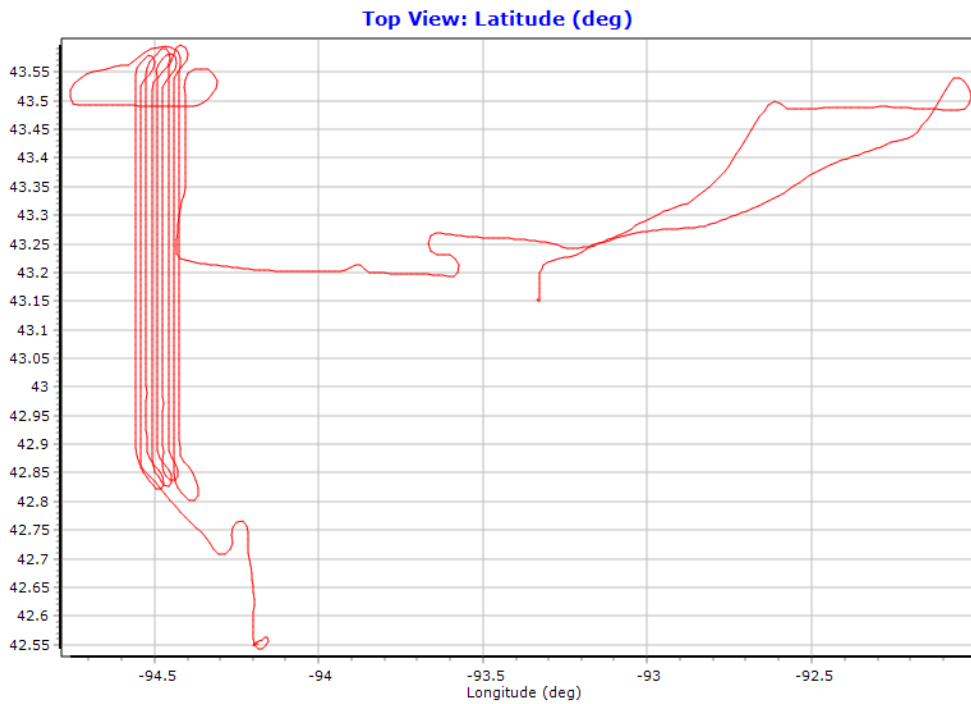


### PDOP

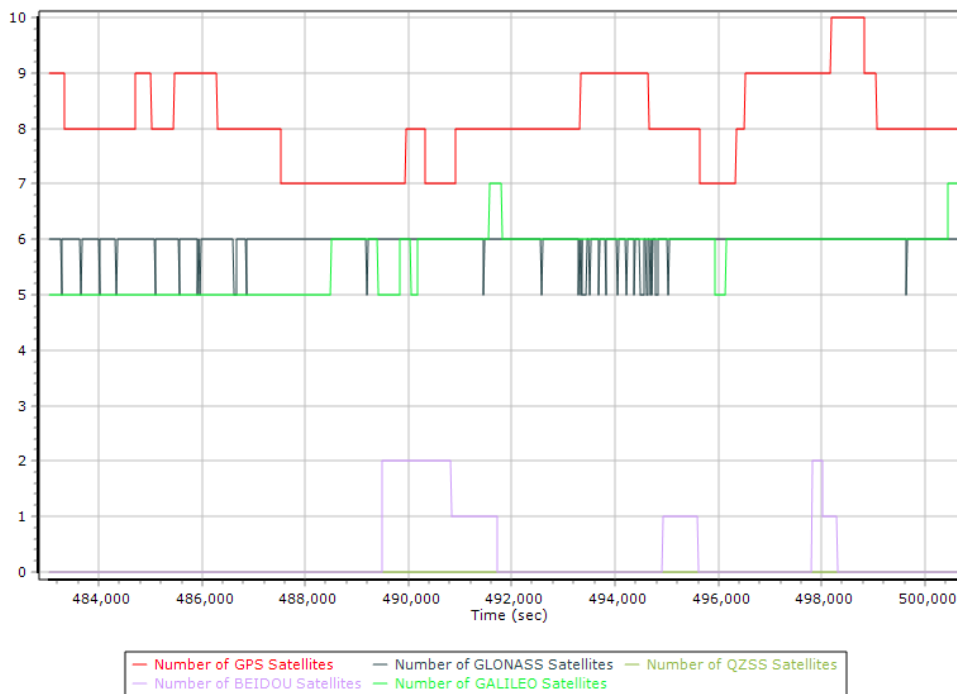


North\_041020A\_8-442.docx - 4/07/2021 11:35:24  
**Smoothed Trajectory Information**

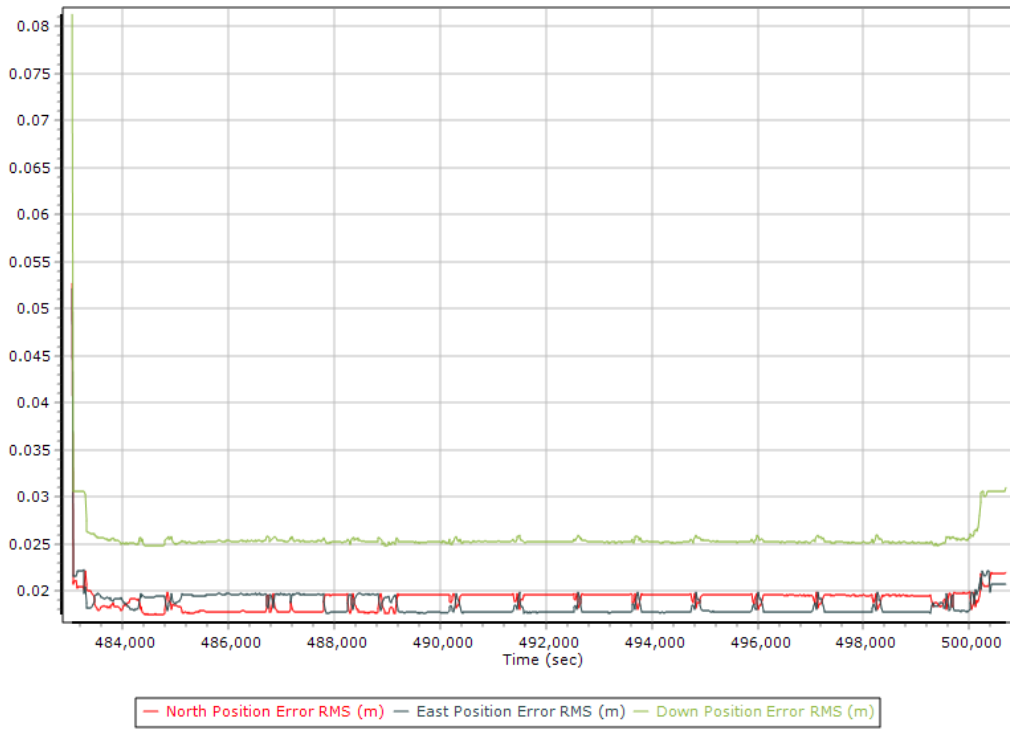
**Top View**



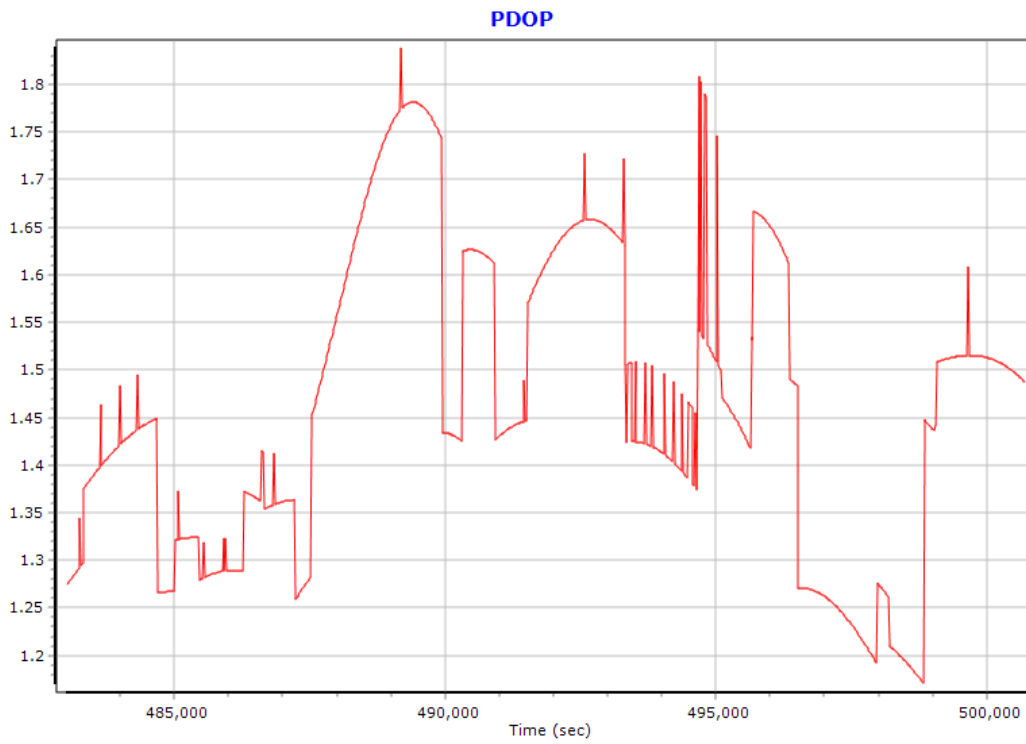
**Number of Satellites**



### Forward/Reverse Separation

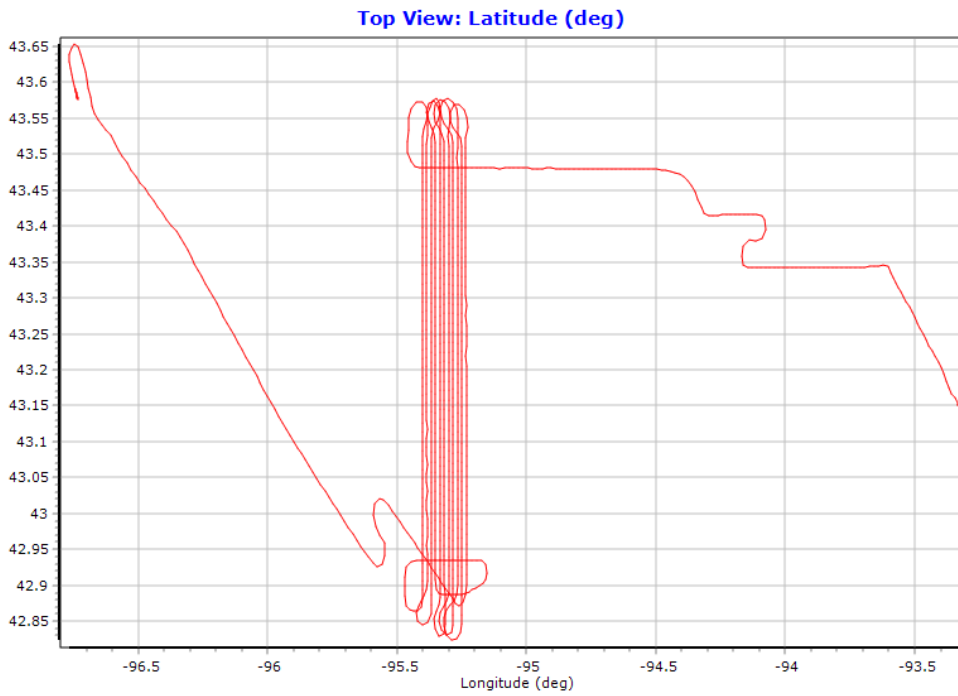


### PDOP

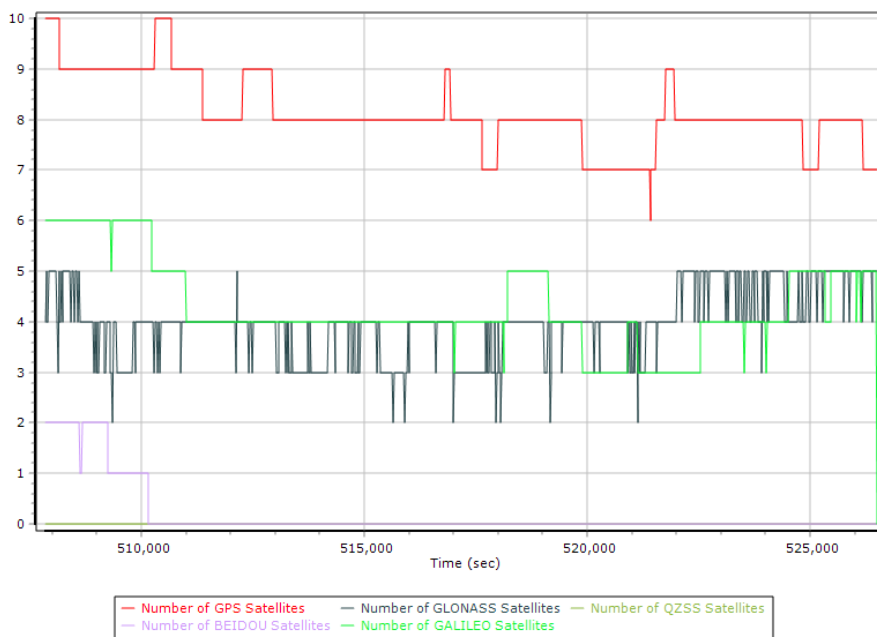


North\_041020B\_9-386.docx – 4/07/2021 10:33:37  
**Smoothed Trajectory Information**

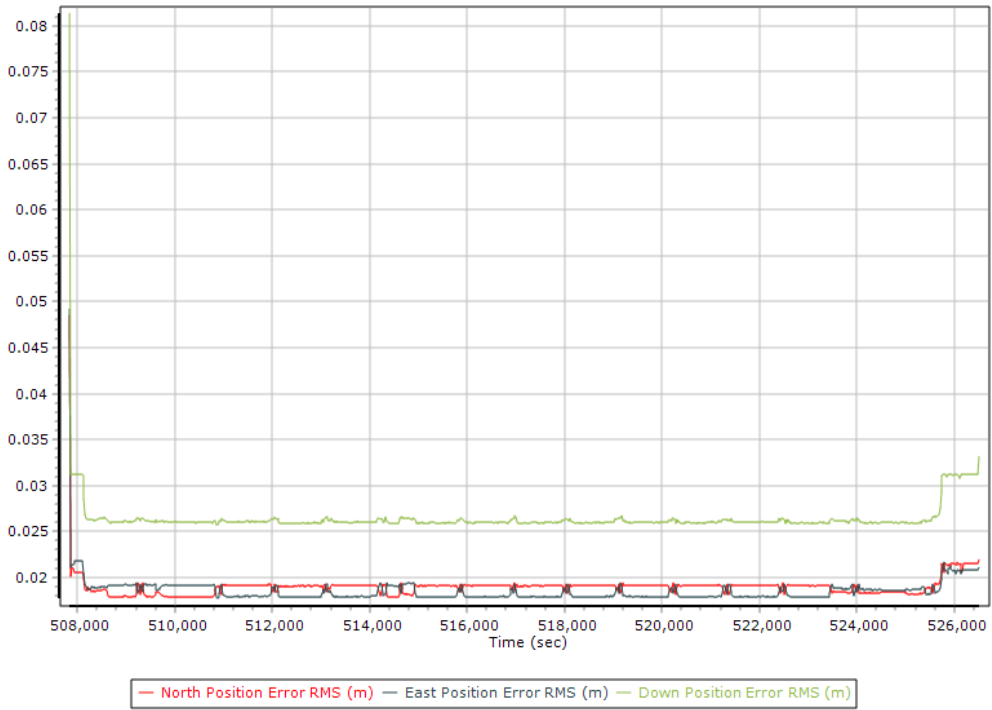
**Top View**



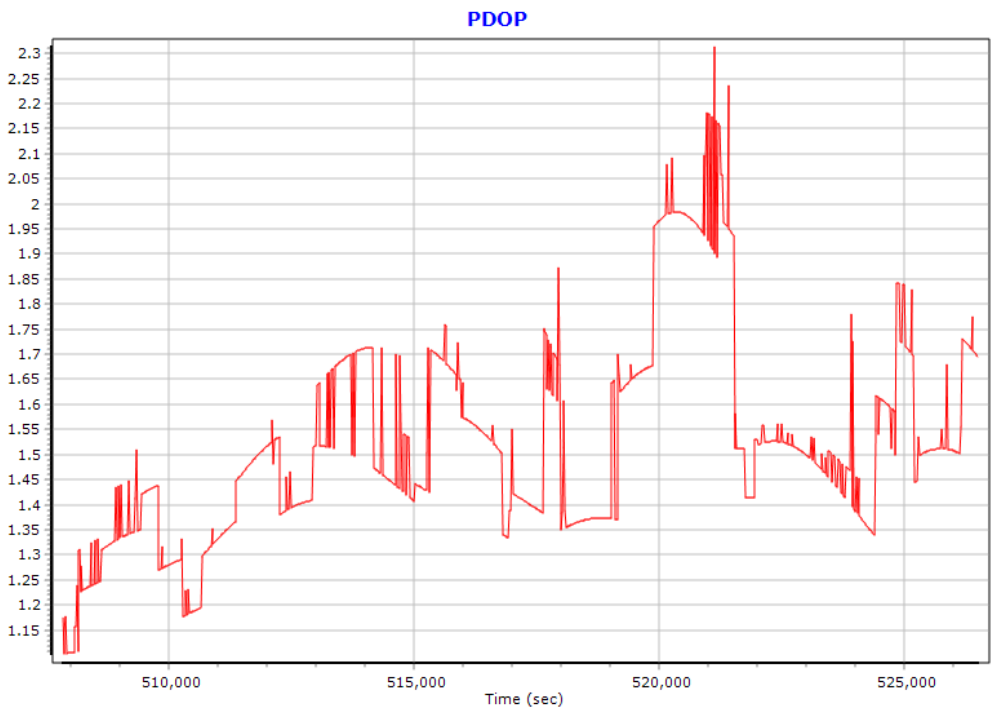
**Number of Satellites**



### Forward/Reverse Separation

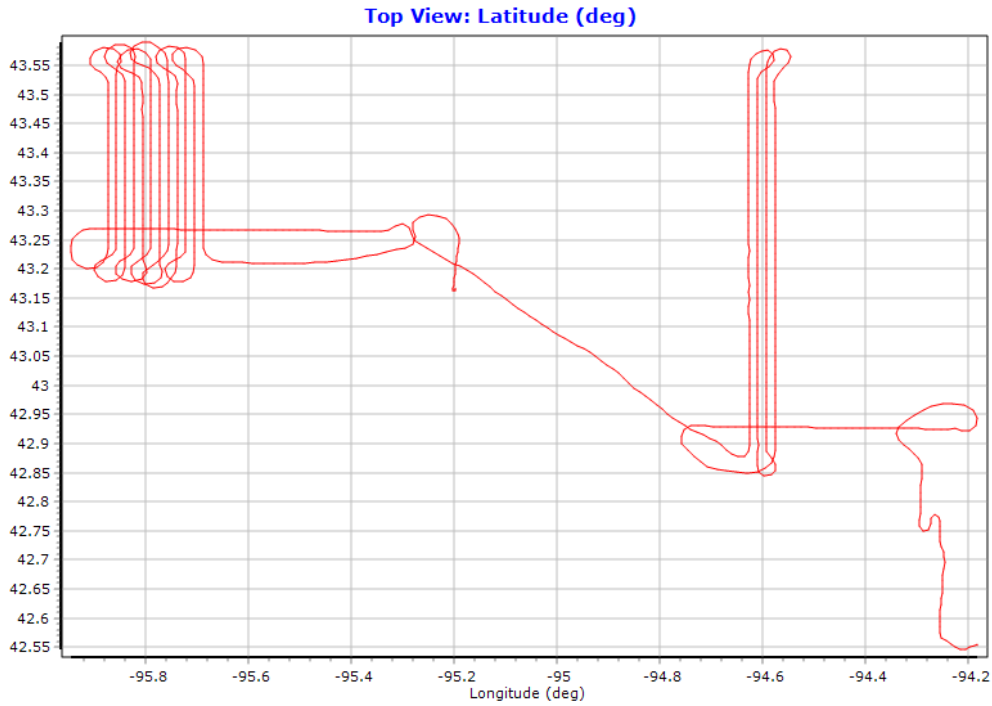


### PDOP

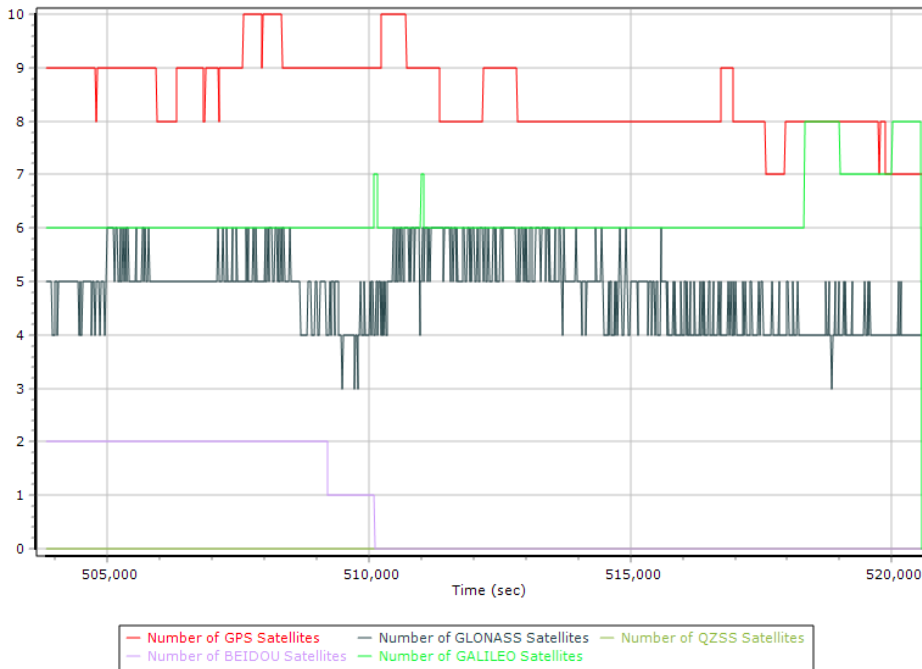


North\_041020B\_9-442.docx – 4/07/2021 11:38:28  
**Smoothed Trajectory Information**

### Top View

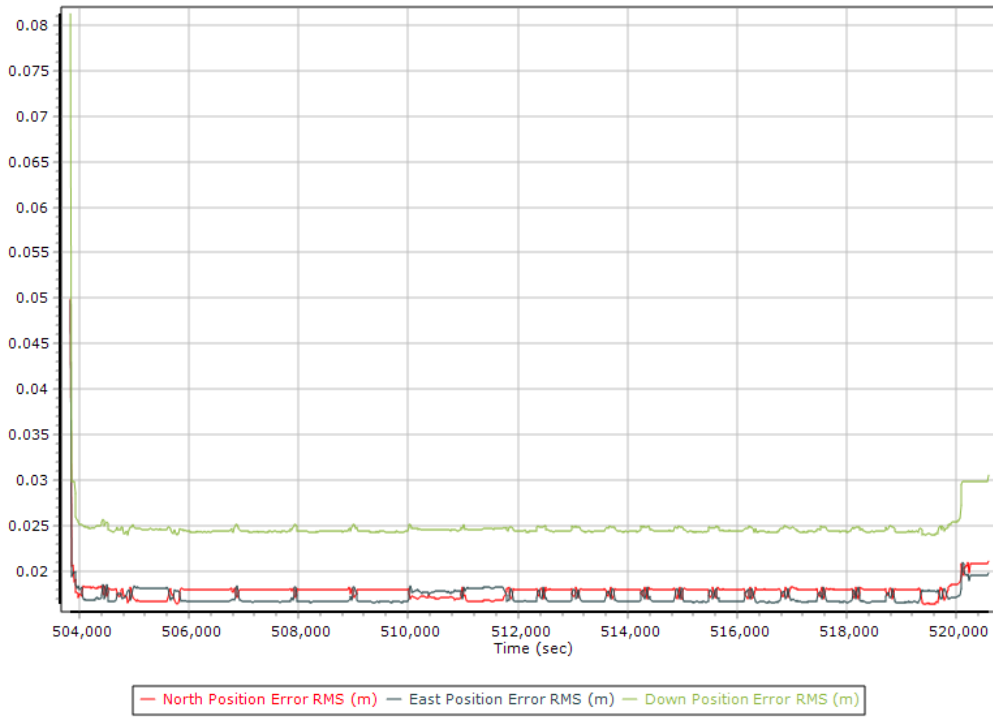


### Number of Satellites

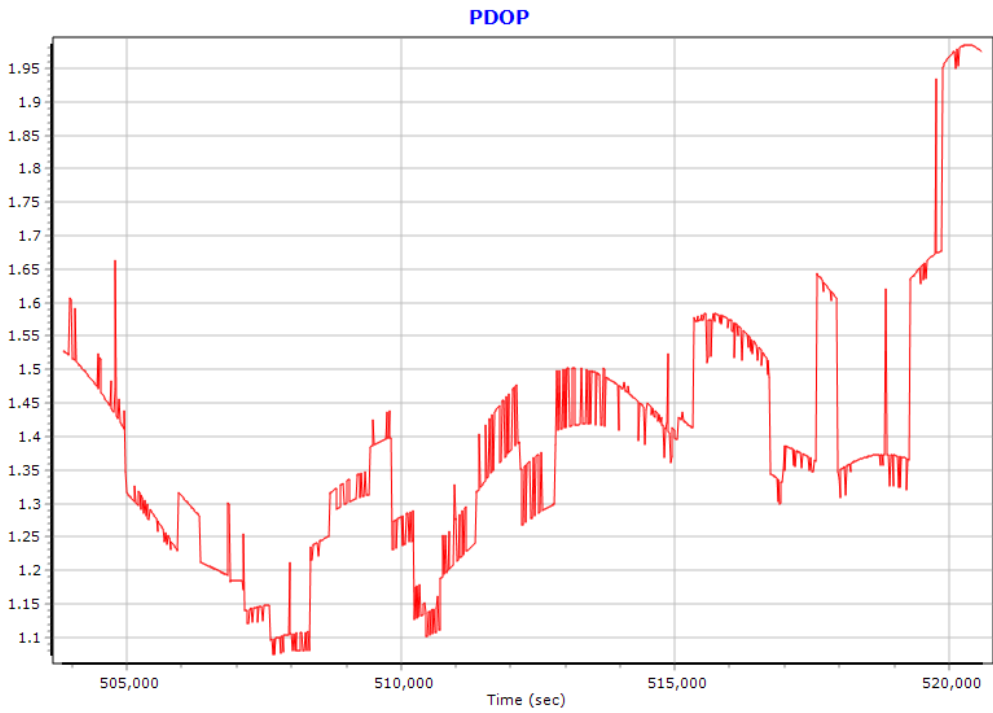




### /Reverse Separation

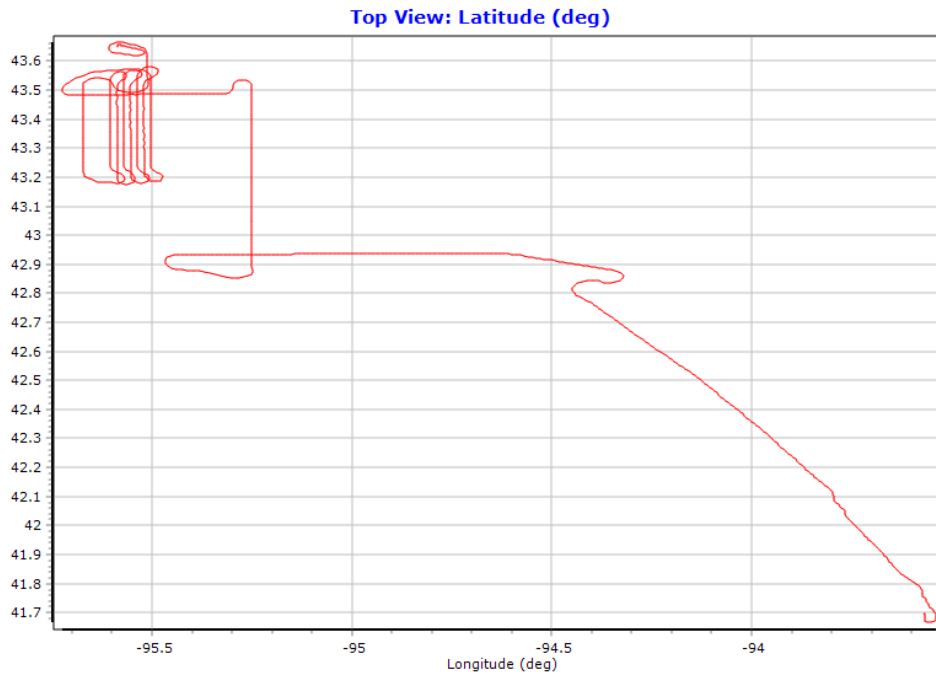


### PDOP

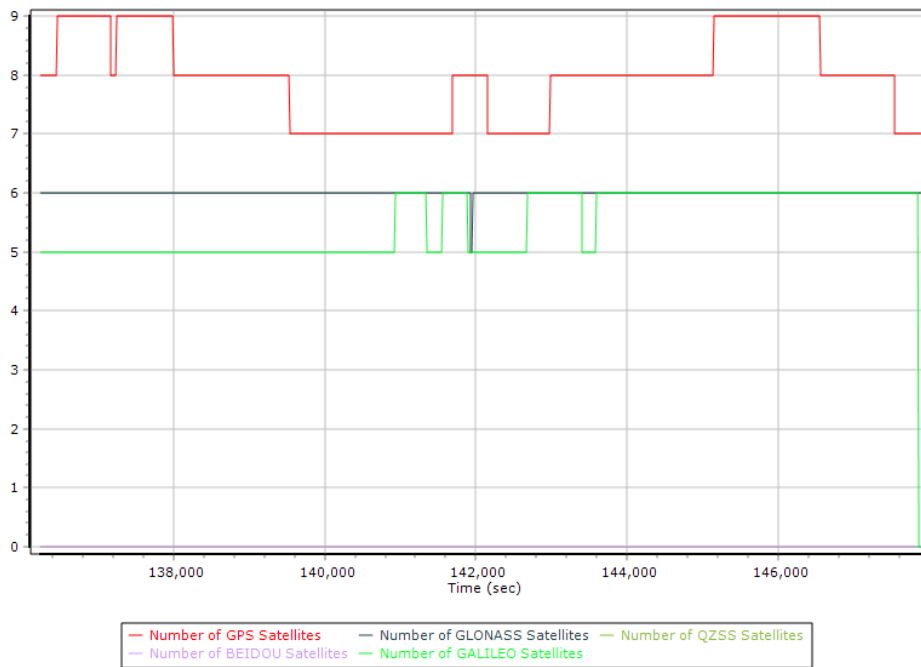


North\_042020A\_15-442.docx - 4/07/2021 11:40:19  
**Smoothed Trajectory Information**

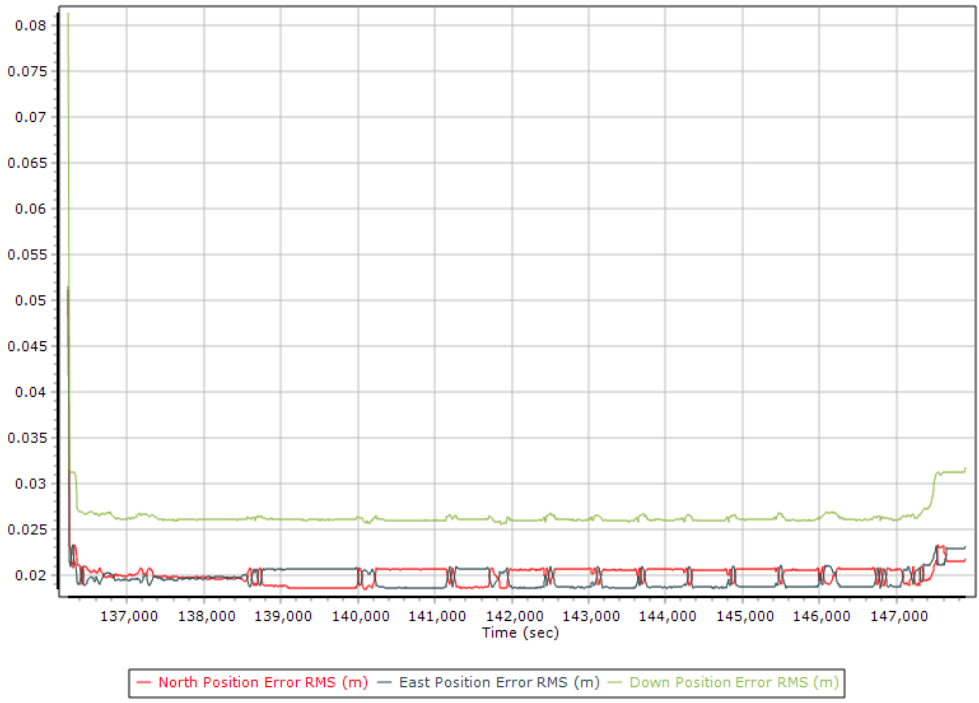
**Top View**



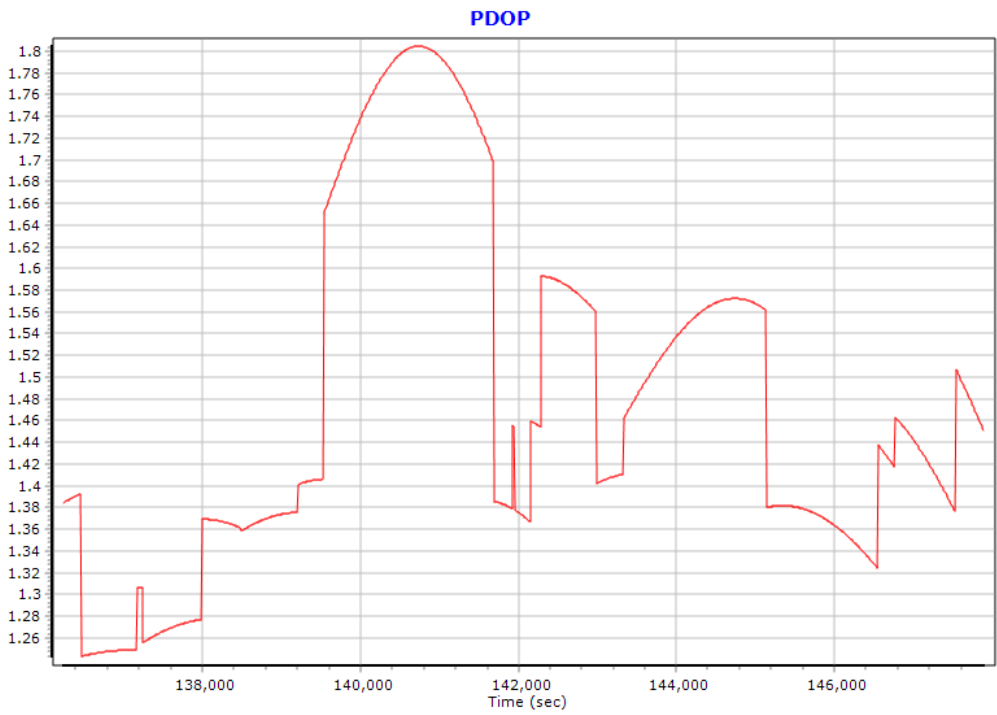
**Number of Satellites**



### Forward/Reverse Separation

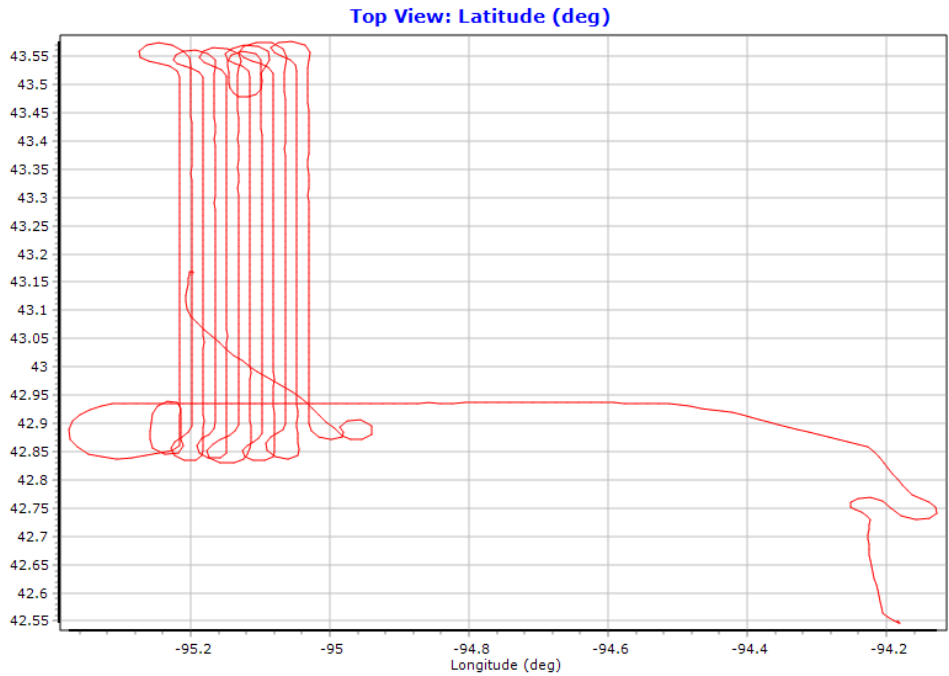


### PDOP

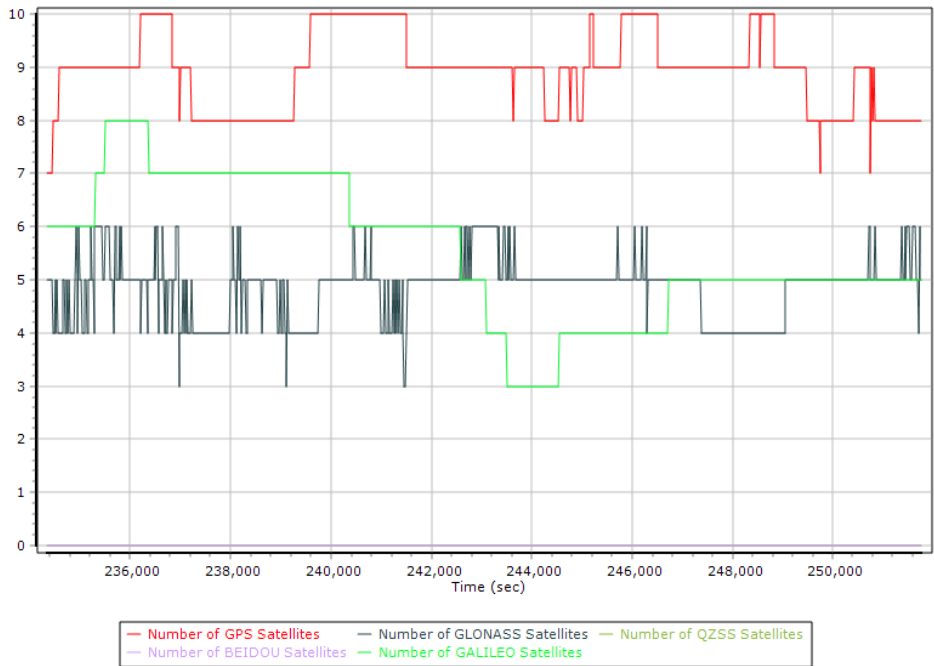


North\_042120B\_15-386.docx - 4/07/2021 10:42:23  
**Smoothed Trajectory Information**

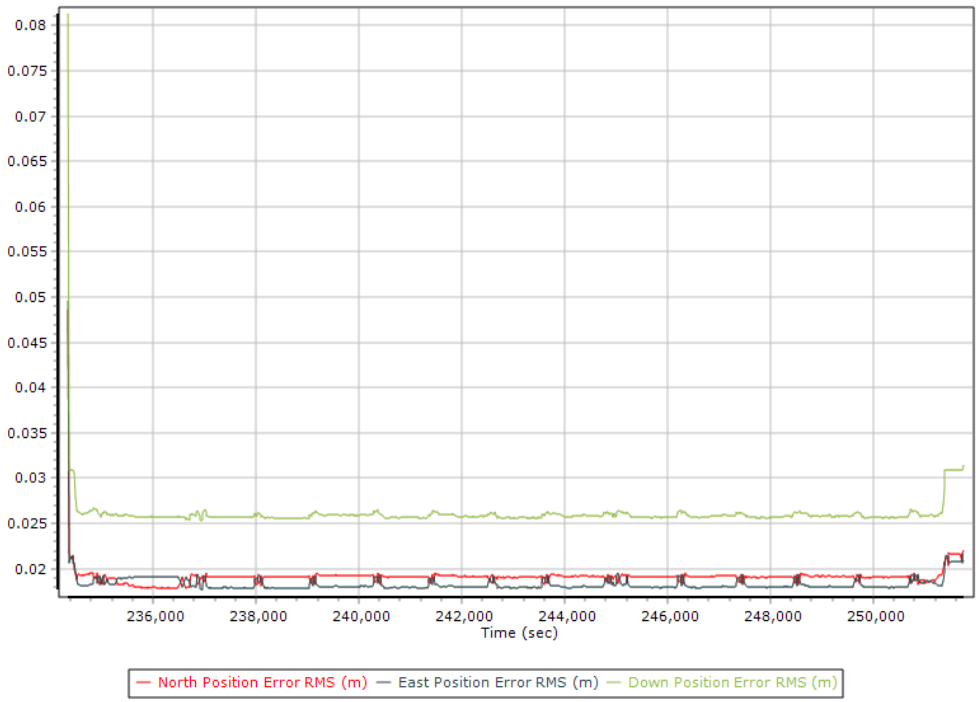
### Top View



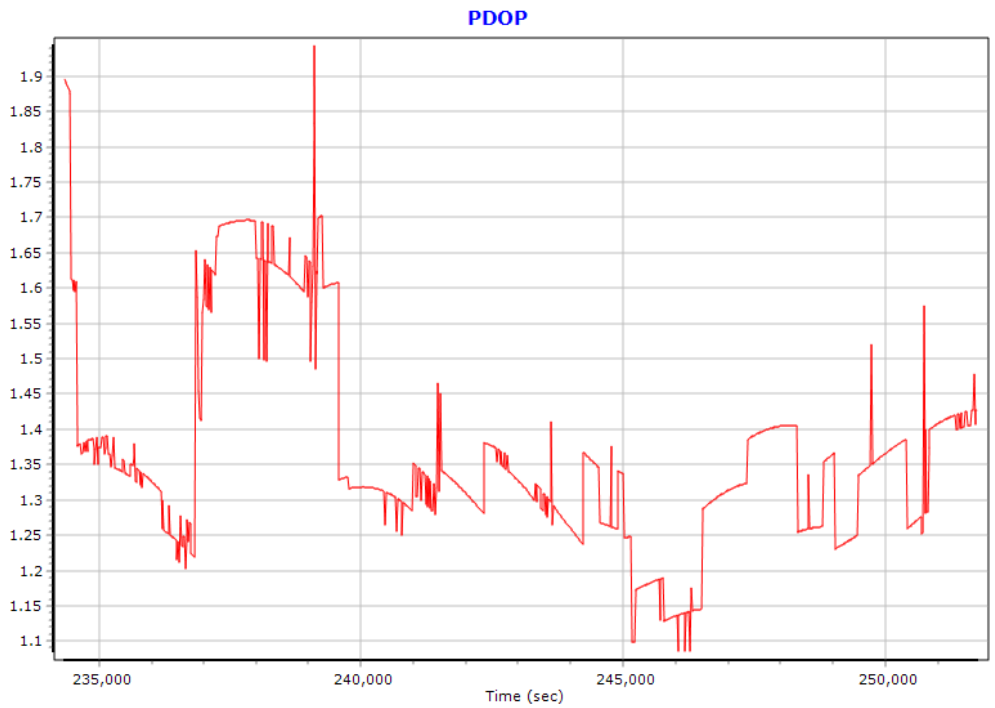
### Number of Satellites



### Forward/Reverse Separation

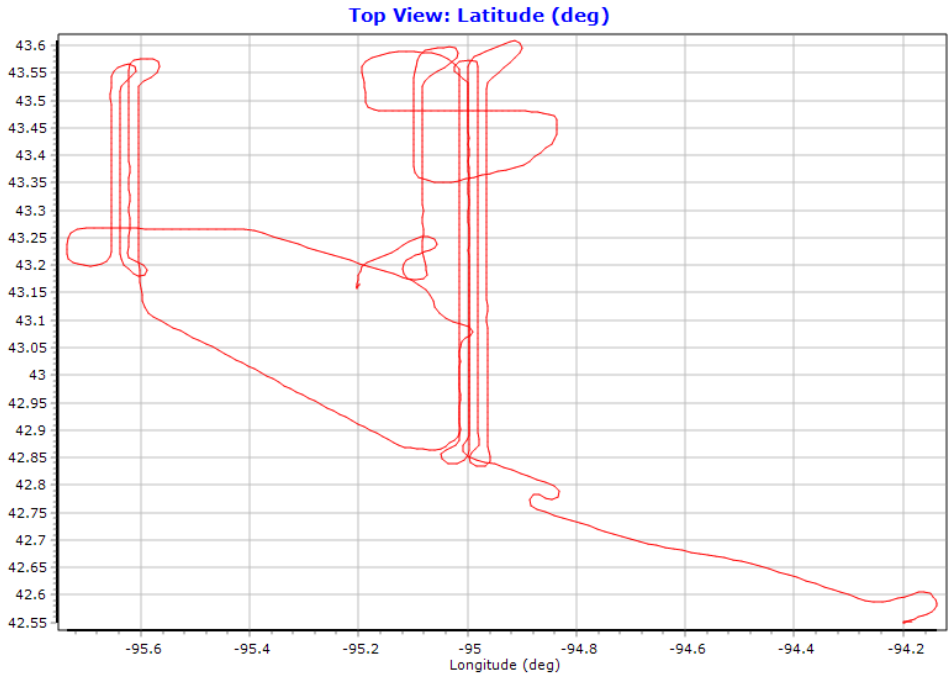


### PDOP

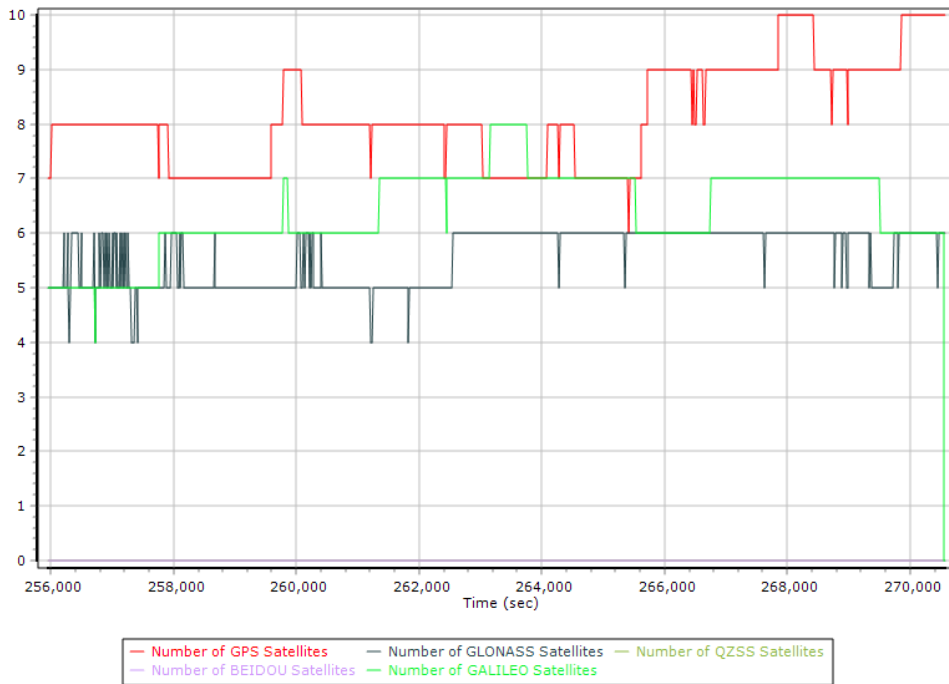


North\_042120C\_16-386.docx - 4/07/2021 11:07:54  
**Smoothed Trajectory Information**

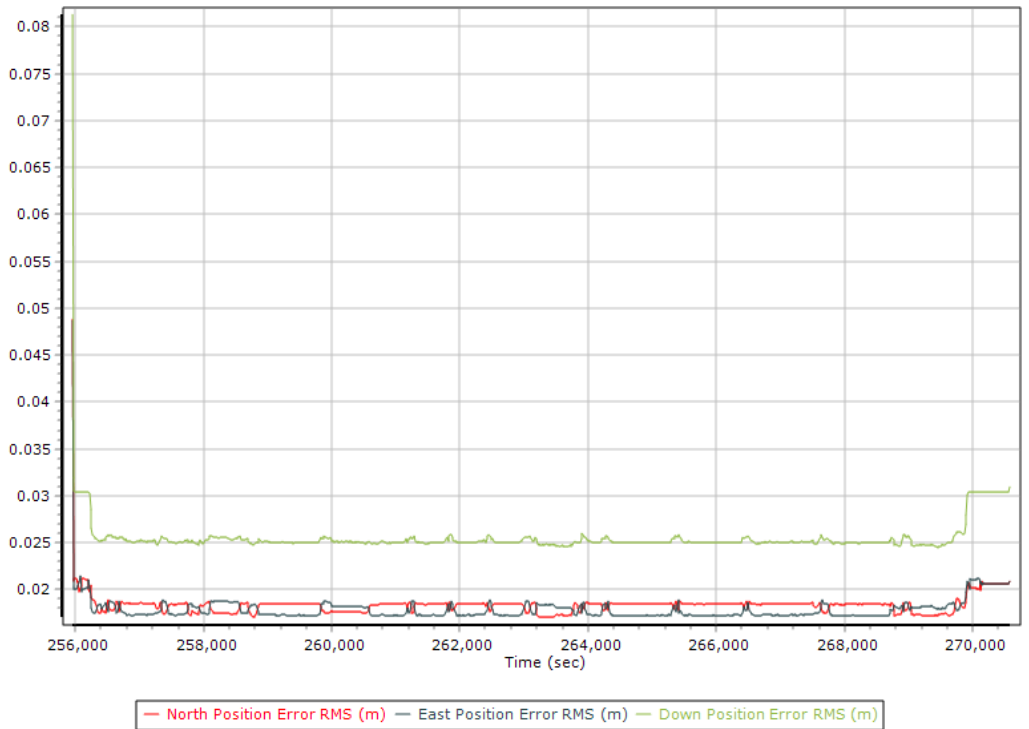
**Top View**



**Number of Satellites**



### Forward/Reverse Separation



### PDOP

