

# **Block\_1\_IL\_HicksDome\_Fluorspar District\_Lidar 2019\_D19 Final Report**

Report Produced for U.S. Geological Survey

TASK ORDER: 140G0219F0337

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## Overview

The primary purpose of this project was to develop a consistent and accurate surface elevation dataset derived from high-accuracy Light Detection and Ranging (LiDAR) technology for the 140G0219F0337 \_ Block\_1\_ IL\_HicksDome\_FloursparDistrict\_2019\_D19 project Area. Block\_1\_HicksDome\_FloursparDistrict area of interest (AOI) covered approximately 2616 square miles in total and includes the counties of Hamilton, Franklin, Saline, Williamson, Johnson, and a portion of Wayne. Block\_1\_HicksDome\_FloursparDistrict was planned for the acquisition, processing, and derivative products of lidar data to be collected at an aggregate nominal pules spacing (ANPS) of  $\leq 0.5$  meters. Adverse ground conditions during the fall 2019 flight season pushed Lidar acquisition to late winter early spring of 2020. Block\_1\_HicksDome\_FloursparDistrict is the only portion of the USGS IL\_HicksDome\_FloursparDistrict\_2019 project area that has been acquired at that time.

The LiDAR data for Block\_1\_HicksDome\_FloursparDistrict was processed and classified according to project specifications. Detailed breaklines, bare earth Digital Elevation Models (DEMs), and Intensity Images were produced for the Block\_1\_HicksDome\_FloursparDistrict project area. Data was formatted into tiles with each tile covering an area of 2000 US survey feet by 2000 US survey feet. A total of 18,609 LAS files 18,609 DEMs and 18,609 Intensity Images were produced for the project, encompassing the Block\_1\_HicksDome\_FloursparDistrict AOI of approximately 2616 square miles and formatted into 18,601 total tiles. DEMs were created with a 2 foot cell size and for that reason one DEM could not be produced for Tile 7430\_4150 due to the tile containing less that 2 feet of data within the AOI.

### **PROJECT TEAM**

Aerial Services, Inc. (ASI) served as the prime contractor for the project. In addition to project management ASI was responsible for LiDAR acquisition and calibration, LAS classification, LiDAR products, Digital Elevation Model (DEM) production, Intensity Image production, and quality assurance. Subcontractor: Tetra Tech manually edited bare earth surface cleanup, preformed hydro collection, and flattening for all of project Block\_1\_HicksDome\_FloursparDistrict . All follow-on processing was completed by the prime contractor.

Surveying and Mapping, LLC (SAM) completed ground surveying for the project and delivered surveyed checkpoints. SAM was to acquire surveyed checkpoints for the project to be used in independent testing of the vertical accuracy of the LiDAR-derived surface model. Please see SURVEY REPORT to view the separate Survey Report that was created for this portion of the project.

### **SURVEY AREA**

The project area addressed by this report falls within the Block\_1\_HicksDome\_FloursparDistrict covering the counties of Hamilton, Franklin, Saline, Williamson, Johnson, and a portion of Wayne, Illinois.

### **DATE OF SURVEY**

LiDAR acquisition for Block\_1\_HicksDome\_FluorsparDistrict was conducted on the dates of on February 29, to March 1, 2020, and again on March 5 to March 8, 2020.

### **COORDINATE REFERENCE SYSTEM**

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

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

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

**Coordinate System:** Illinois State Plane East (FIPS 1201) (EPSG 6455).

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

**Geoid Model:** Geoid192B

### **LIDAR VERTICAL ACCURACY**

For the Block\_1\_HicksDome\_FluorsparDistrict project, the tested RMSEz of the data for checkpoints in non-vegetated terrain equaled 0.037 meters compared with the 10 cm specification: The 95% confidence value of NVA of the classified LiDAR data computed using RMSEz x 1.96 and was found to equal 0.072 meters compared with the 19.6 cm specification.

For the Block\_1\_HicksDome\_FluorsparDistrict project, the tested VVA of the classified data computed using the 95<sup>th</sup> percentile was equal to 0.089 meters, compared with the 29.4 cm specification.

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

Project Report (Acquisition, Processing, QC)

Project Extent (Included in breakline GDB)

Swaths Extents (File GDB)

Tile Index (included in breakline GDB)

**PROJECT TILING FOOTPRINT**

~18,609 tiles, ~18,609 LAS files, ~18,609 DEM tiles, and ~18,609 Intensity Image tiles were delivered for the project. Each tile's extent is 2000 US Survey feet by 2000 US Survey feet. (See Appendix A for a complete listing of delivered tiles.)

140G0219F0337 \_ Block\_1\_IL\_HicksDome\_FluorsparDistrict\_2019\_D19 project Area

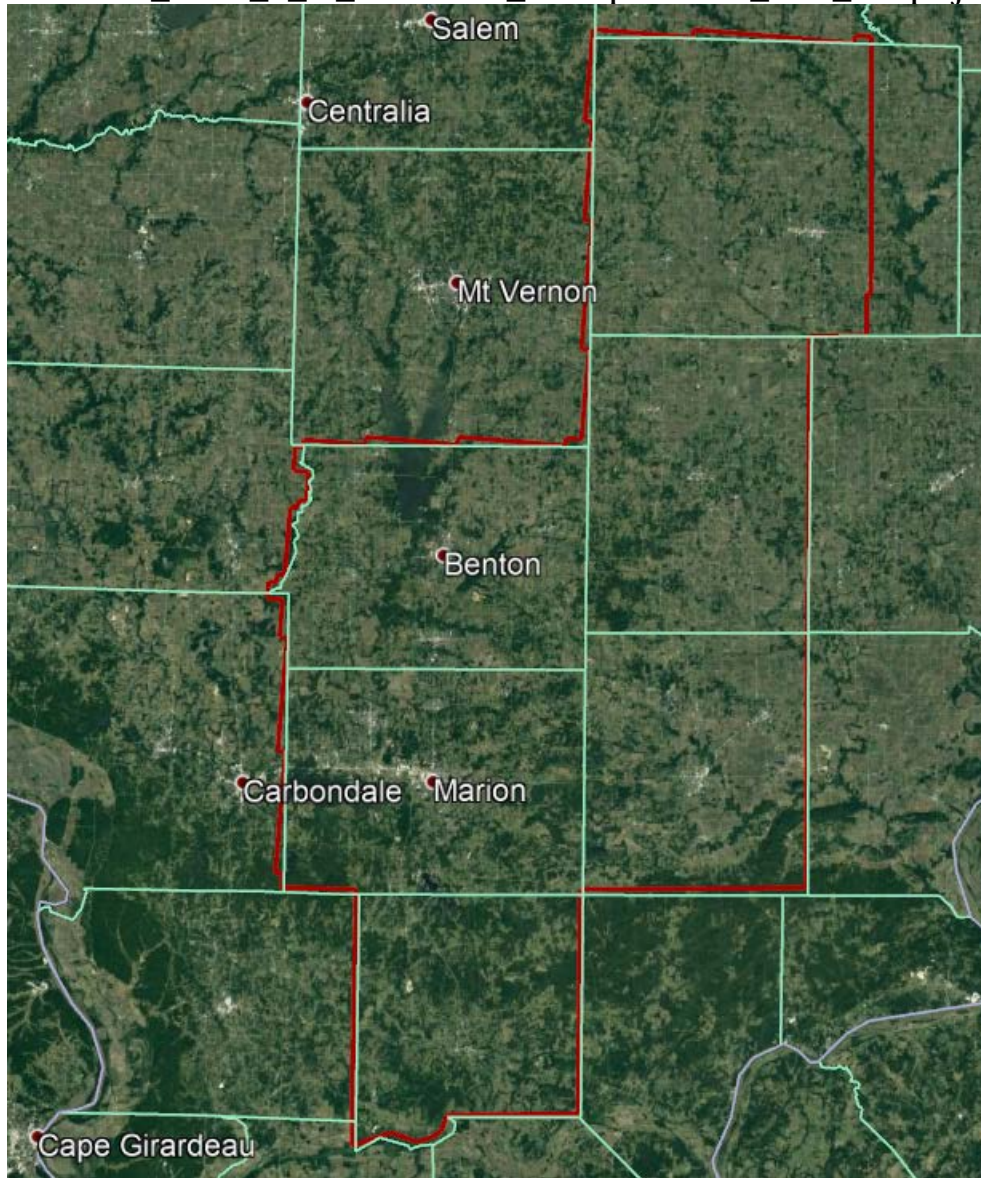


Figure 1 – Block\_1\_IL\_HicksDome\_FluorsparDistrict Area of Interest

## Lidar Acquisition Details

Aerial Services, Inc. served as prime contractor for the Block\_1\_HicksDome\_FluorsparDistrict project and performed the LiDAR Acquisition and Calibration.

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

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

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

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

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

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

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

**LIDAR SYSTEM PARAMETERS**

Aerial Services, Inc. operated a Cessna (Tail # N78AS) outfitted with a LEICA ALS70-HP lidar system during the collection of the study area. Table 1 illustrates Aerial Services, Inc. system parameters for lidar acquisition on this project.

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

**Table 1: Aerial Services, Inc. Lidar System Parameters**



### ACQUISITION STATUS REPORT AND FLIGHTLINES

Upon notification to proceed, the flight crew loaded the flight plans and validated the flight parameters. The Acquisition Manager contacted air traffic control and coordinated flight pattern requirements. Lidar acquisition began immediately upon notification that control base stations were in place. During flight operations, the flight crew monitored weather and atmospheric conditions. Lidar missions were flown only when no condition existed below the sensor that would affect the collection of data. The pilot constantly monitored the aircraft course, position, pitch, roll, and yaw of the aircraft. The sensor operator monitored the sensor, the status of PDOPs, and performed the first Q/C review during acquisition. The flight crew constantly reviewed weather and cloud locations. Any flight lines impacted by unfavorable conditions were marked as invalid and re-flown immediately or at an optimal time. A listing of Flightlines and corresponding, Lift\_ID that contains the date of mission, Point Source ID, Scanner, and adjusted GPS times are available in Table 2.

Figure 2 shows the combined trajectory of the flightlines by mission.



Figure 2: 140G0219F0337\_Block\_1\_IL\_HicksDome\_FluorsparDistrict\_2019\_D19 trajectories by mission as flown by Aerial Services, Inc.

Name	Lift_ID	PT Source ID	Scanner	Start Time	End Time
200229_163827_EC075	20200229_161043	1	ALS_70	267029528	267031446.55
200229_171257_EC074	20200229_161043	2	ALS_70	267031598	267033829.07
200229_175144_EC073	20200229_161043	3	ALS_70	267033924	267036220.77
200229_183211_EC072	20200229_161043	4	ALS_70	267036351	267038604.44
200229_191109_EC071	20200229_161043	5	ALS_70	267038689	267040905.47
200229_194947_EC070	20200229_161043	6	ALS_70	267041008	267043286.84
200229_211247_EC069	20200229_210131	7	ALS_70	267045988	267048165.38
200229_215045_EC068	20200229_210131	8	ALS_70	267048266	267050513.47
200229_222931_EC067	20200229_210131	9	ALS_70	267050593	267052807.62
200229_230800_EC066	20200229_210131	10	ALS_70	267052901	267055184.40
200301_001127_EC060	20200229_210131	11	ALS_70	267056708	267058130.41
200301_003721_EC058	20200229_210131	12	ALS_70	267058263	267059680.88
200301_023559_EC002	20200301_020914	13	ALS_70	267065379	267065707.71
200301_024427_EC003	20200301_020914	14	ALS_70	267065888	267066319.41
200301_025847_EC004	20200301_020914	15	ALS_70	267066748	267067371.80
200301_031412_EC005	20200301_020914	16	ALS_70	267067673	267068404.69
200301_033231_EC006	20200301_020914	17	ALS_70	267068772	267069507.58
200301_034921_EC007	20200301_020914	18	ALS_70	267069781	267070780.32
200301_042928_EC008	20200301_020914	19	ALS_70	267072189	267073263.83
200301_045208_EC009	20200301_020914	20	ALS_70	267073549	267074426.40
200301_064133_EC010	20200301_061551	21	ALS_70	267080114	267081100.57
200301_070400_EC011	20200301_061551	22	ALS_70	267081461	267082500.71
200301_095757_EC065	20200301_093540	23	ALS_70	267091898	267094086.81
200301_103548_EC064	20200301_093540	24	ALS_70	267094169	267096594.42
200301_112229_EC063	20200301_093540	25	ALS_70	267096969	267099145.65
200301_120102_EC057	20200301_093540	26	ALS_70	267099283	267100055.73

200301_121824_EC055	20200301_093540	27	ALS_70	267100324	267100719.07
200301_122634_EC053	20200301_093540	28	ALS_70	267100814	267101115.01
200301_123306_EC051	20200301_093540	29	ALS_70	267101206	267101405.37
200301_123852_EC062	20200301_093540	30	ALS_70	267101553	267104126.44
200301_133956_EC001	20200301_093540	31	ALS_70	267105218	267105274.09
200301_144940_EC061	20200301_093540	32	ALS_70	267109401	267111652.16
200301_152833_EC059	20200301_093540	33	ALS_70	267111734	267112561.10
200301_155011_EC056	20200301_093540	34	ALS_70	267113032	267114846.06
200301_162241_EC054	20200301_093540	35	ALS_70	267114982	267116347.19
200305_013117_E001	20200305_010608	36	ALS_70	267407098	267408077.26
200305_015125_E002	20200305_010608	37	ALS_70	267408306	267409254.75
200305_021150_E003	20200305_010608	38	ALS_70	267409531	267410537.82
200305_023154_E004	20200305_010608	39	ALS_70	267410736	267411649.89
200305_025054_E005	20200305_010608	40	ALS_70	267411876	267412981.16
200305_031247_E006	20200305_010608	41	ALS_70	267413188	267414092.09
200305_033159_E007	20200305_010608	42	ALS_70	267414340	267415399.26
200305_035333_E008	20200305_010608	43	ALS_70	267415634	267416544.61
200305_041424_E009	20200305_010608	44	ALS_70	267416884	267417932.12
200305_043531_E010	20200305_010608	45	ALS_70	267418152	267419079.77
200305_045639_E011	20200305_010608	46	ALS_70	267419421	267420694.51
200305_101009_E012	20200305_094110	47	ALS_70	267438230	267439465.70
200305_103227_E013	20200305_094110	48	ALS_70	267439568	267440942.72
200305_105827_E014	20200305_094110	49	ALS_70	267441128	267442579.26
200305_112434_E015	20200305_094110	50	ALS_70	267442695	267444151.54
200305_150742_E016	20200305_144800	51	ALS_70	267456083	267457502.72
200305_153338_E017	20200305_144800	52	ALS_70	267457639	267459135.82
200305_160022_E018	20200305_144800	53	ALS_70	267459243	267460694.33

200305_162632_E019	20200305_144800	54	ALS_70	267460813	267462247.10
200305_191208_E020	20200305_184142	55	ALS_70	267470748	267472154.16
200305_193959_E021	20200305_184142	56	ALS_70	267472419	267473845.79
200305_201125_E022	20200305_184142	57	ALS_70	267474305	267475740.56
200305_210302_E023	20200305_184142	58	ALS_70	267477402	267478879.38
200305_213446_E024	20200305_184142	59	ALS_70	267479307	267480689.22
200305_231635_E025	20200305_225309	60	ALS_70	267485416	267487063.41
200305_234836_E026	20200305_225309	61	ALS_70	267487337	267488765.37
200306_001653_E027	20200305_225309	62	ALS_70	267489033	267490673.91
200306_004903_E028	20200305_225309	63	ALS_70	267490964	267492368.98
200306_011822_E029	20200305_225309	64	ALS_70	267492722	267494333.76
200306_034438_E030	20200306_025611	65	ALS_70	267501499	267502952.71
200306_041531_E031	20200306_025611	66	ALS_70	267503351	267505011.60
200306_044650_E032	20200306_025611	67	ALS_70	267505230	267506680.28
200306_071832_E033	20200306_063204	68	ALS_70	267514332	267515779.46
200306_074453_E034	20200306_063204	69	ALS_70	267515914	267517551.42
200306_081354_E035	20200306_063204	70	ALS_70	267517654	267519070.91
200306_083931_E036	20200306_063204	71	ALS_70	267519192	267520864.69
200306_090930_E037	20200306_063204	72	ALS_70	267520990	267522344.00
200306_094629_E038	20200306_063204	73	ALS_70	267523209	267524788.55
200306_115645_E039	20200306_113358	74	ALS_70	267531024	267532367.95
200306_224627_E041	20200306_214702	77	ALS_70	267570007	267571824.21
200306_232439_E042	20200306_214702	78	ALS_70	267572299	267574178.03
200307_013816_E040	20200307_010807	80	ALS_70	267580316	267581642.62
200307_024755_E043	20200307_010807	82	ALS_70	267584495	267586400.77
200307_032455_E044	20200307_010807	83	ALS_70	267586714	267588363.25
200307_040022_E045	20200307_010807	84	ALS_70	267588842	267590748.65

200307_043554_E046	20200307_010807	85	ALS_70	267590973	267592608.99
200307_075935_E047	20200307_072436	86	ALS_70	267603195	267604937.36
200307_083110_E048	20200307_072436	87	ALS_70	267605089	267606904.43
200307_090334_E049	20200307_072436	88	ALS_70	267607035	267608775.09
200307_093423_E050	20200307_072436	89	ALS_70	267608882	267610660.68
200307_100608_E051	20200307_072436	90	ALS_70	267610789	267612512.99
200307_103628_E052	20200307_072436	91	ALS_70	267612608	267614354.96
200307_110735_E053	20200307_072436	92	ALS_70	267614475	267616232.51
200307_122049_E060	20200307_120639	93	ALS_70	267618869	267620634.01
200307_125225_E059	20200307_120639	94	ALS_70	267620765	267622528.77
200307_132341_E058	20200307_120639	95	ALS_70	267622641	267624382.23
200307_135428_E057	20200307_120639	96	ALS_70	267624488	267626219.61
200307_142505_E056	20200307_120639	97	ALS_70	267626324	267628078.80
200307_145839_E055	20200307_120639	98	ALS_70	267628340	267630058.49
200307_152835_E054	20200307_120639	99	ALS_70	267630135	267631890.14
200307_160100_E061	20200307_120639	100	ALS_70	267632080	267633822.78
200307_191711_E062	20200307_184217	101	ALS_70	267643851	267645585.76
200307_195234_E077	20200307_184217	102	ALS_70	267645975	267647646.94
200307_202418_E078	20200307_184217	103	ALS_70	267647879	267649626.63
200307_231203_E063	20200307_225857	106	ALS_70	267657944	267659794.91
200308_004110_E064	20200308_003052	107	ALS_70	267663290	267665146.43
200308_011608_E065	20200308_003052	108	ALS_70	267665389	267666998.73
200308_014742_E066	20200308_003052	109	ALS_70	267667283	267669171.23
200308_035155_E067	20200308_031434	110	ALS_70	267674735	267676624.09
200308_042726_E068	20200308_031434	111	ALS_70	267676866	267678562.47
200308_050035_E069	20200308_031434	112	ALS_70	267678855	267680798.09
200308_071131_E070	20200308_063825	113	ALS_70	267686712	267688550.05

200308_074554_E071	20200308_063825	114	ALS_70	267688774	267690527.45
200308_081705_E072	20200308_063825	115	ALS_70	267690646	267692484.19
200308_085022_E073	20200308_063825	116	ALS_70	267692643	267694415.68
200308_092223_E074	20200308_063825	117	ALS_70	267694563	267696391.93
200308_104106_E075	20200308_101948	118	ALS_70	267699287	267701021.36
200308_111217_E076	20200308_101948	119	ALS_70	267701157	267703010.23

**Table 2 – Block\_1\_HicksDome\_FluorsparDistrict, Illinois Project flightline by Mission**

**ACQUISITION CONTROL**

Aerial Services, Inc. conducted the survey which provided the established base stations used to control the lidar acquisition for the Block\_1\_HicksDome\_FluorsparDistrict project area. The coordinates of the base stations are provided in the table below.

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

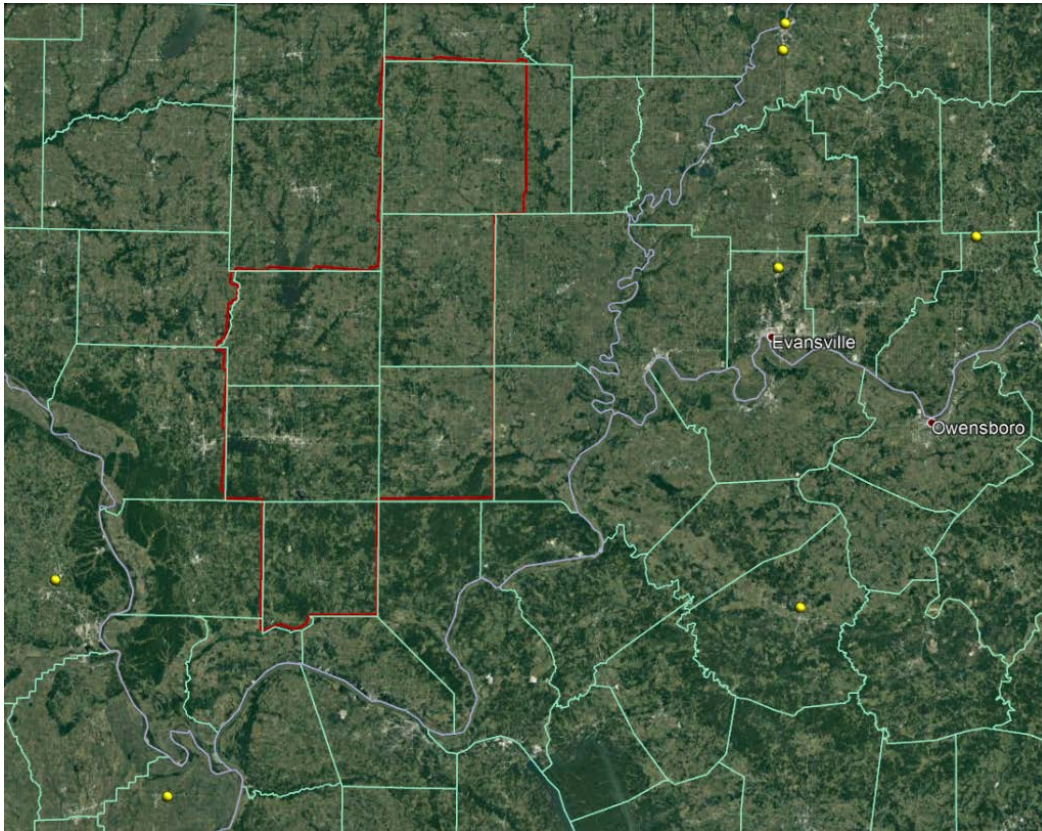
**Table 3 – Base station used to control lidar acquisition for the Project.**

### **AIRBORNE GPS KINEMATIC**

Airborne GPS data was processed using Waypoint's Inertial Explorer version 8.80.2503 software suite. All flights were flown with PDOP less than or equal to 3.0 and with at least 6 satellites in common view of both a stationary reference receiver and the airborne GPS.

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

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



**figure 3 – 140G0219F0337\_Block\_1\_IL\_HicksDome\_FluorsparDistrict\_2019\_D19 Base station location**

### **GENERATION AND CALIBRATION OF LASER POINTS (RAW DATA)**

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

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



**Figure 4 – Lidar swath coverage over AOI.**



## Boresight and Relative Accuracy

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

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

For this project the specifications used are as follow

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

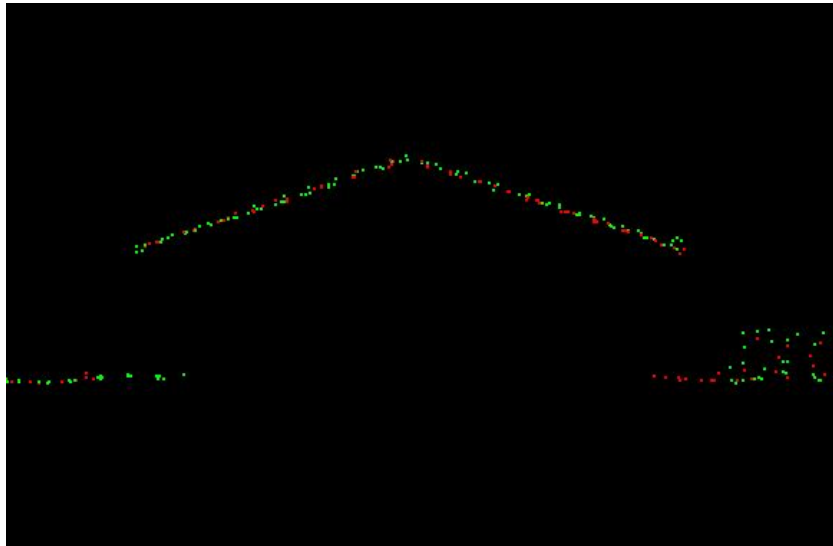


Figure 5 – Profile view showing proper interswath calibration.

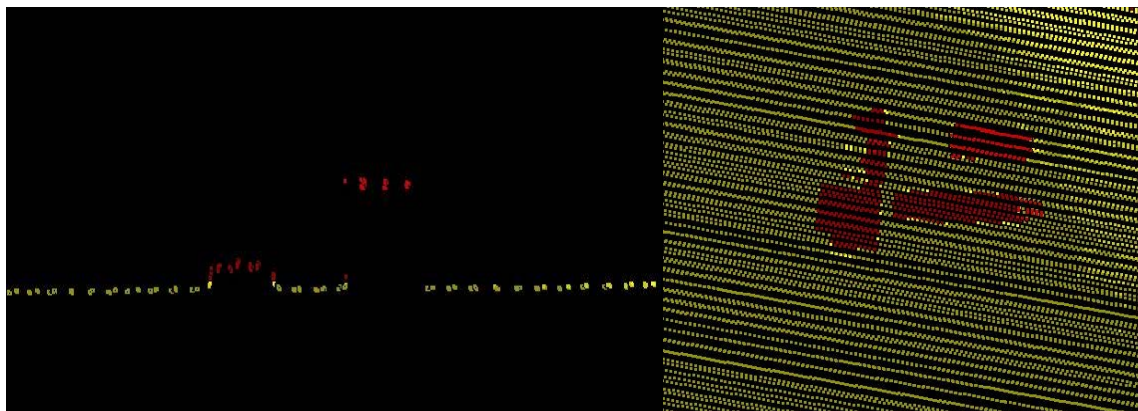
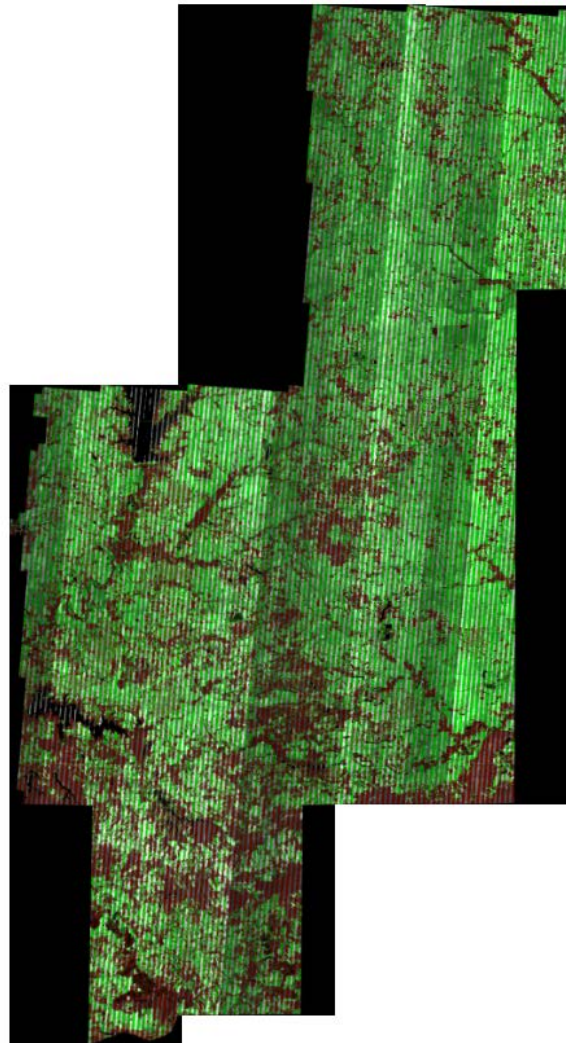


Figure 6 – Top view showing a parking lot with a car and raised feature on a single swath demonstrating intraswath accuracy. Yellow color is scaled to a range of 6 cm in elevation. Points are within 6 cm of variation until the raised curb and car. Also shown is a profile view showing low variability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

### **DELTA-Z ACCURACY ASSESSMENT**

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

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



**Figure 7: Block\_1\_HicksDome\_FluorsparDistrict, Illinois Project Delta-z raster image.**

## Final Calibration Verification

Surveying and Mapping, LLC (SAM) conducted the survey for 39 ground control points (GCPs) which were used to test the accuracy of the calibrated swath data. These 39 GCPs were available to use as control in case the swath data exhibited any biases which would need to be adjusted or removed. The coordinates of all GCPs are provided in table 4 and the accuracy results from testing the calibrated swath data against the GCPs is provided in table 5; no further adjustments to the swath data were required based on the accuracy results of the GCPs. Accuracy of the raw point cloud against GCP: 0.016 meters with a 95% confidence value of 0.031 meters.

Point ID	NAD83 (2011 adj) IL East		NAVD88 (Geoid 12B)		Dz (USft)
	Easting X (USft)	Northing Y (USft)	Z-Survey (USft)	Z-LiDAR (USft)	
GCP201	893629.566	674629.129	506.096	506.10	-0.004
GCP202	954160.36	689241.5	455.92	456.10	-0.18
GCP211	964014.097	645783.626	452.844	452.85	-0.006
GCP212	891518.84	645439.58	437.21	437.19	0.02
GCP213	910915.038	611783.561	443.916	443.92	-0.004
GCP214	964068.41	623490.428	412.192	412.28	-0.088
GCP221	940530.419	582885.747	390.827	390.83	-0.003
GCP222	887711.765	584341.168	453.48	453.49	-0.01
GCP223	883176.041	546093.166	502.295	502.25	0.045
GCP224	925245.558	541626.038	393.103	393.06	0.043
GCP231	928855.071	504911.887	401.729	401.79	-0.061
GCP232	877050.966	511478.248	434.452	434.41	0.042
GCP233	818388.168	514328.347	437.859	437.85	0.009
GCP234	776802.732	516067.788	474.001	474.01	-0.009
GCP235	759415.071	477517.31	444.306	444.30	0.006
GCP236	812507.617	467880.574	411.953	411.91	0.043
GCP237	870167.73	481486.841	495.239	495.19	0.049

GCP238	948332.081	462396.034	371.711	371.75	-0.039
GCP243	940319.085	407945.159	379.48	379.50	-0.02
GCP244	893276.159	388709.22	393.267	393.29	-0.023
GCP246	810670.587	409426.557	437.054	437.08	-0.026
GCP247	763842.177	399007.858	447.515	447.52	-0.005
GCP248	760772.925	357970.523	575.32	575.29	0.03
GCP249	812034.206	361852.278	494.869	494.83	0.039
GCP250	854585.929	365751.116	465.864	465.88	-0.016
GCP251	925417.043	366529.711	415.269	415.28	-0.011
GCP252	940719.933	352864.752	383.064	383.22	-0.156
GCP259	858446.535	332754.389	525.578	525.60	-0.022
GCP260	799197.68	322082.46	750.036	749.99	0.046
GCP267	839876.034	308621.248	751.243	751.27	-0.027
GCP271	854898.213	267446.926	496.079	496.10	-0.021
GCP272	821463.935	274390.657	376.846	376.88	-0.034
GCP273	798493.559	277654.267	377.06	377.10	-0.04
GCP279	784066.338	235200.841	337.186	337.22	-0.034
GCP280	825294.116	248073.811	376.917	376.85	0.067

**Table 4 – Block\_1\_HicksDome\_FluorsparDistrict, Illinois Project surveyed ground control points (GCPs).**

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

100 % of Totals	# of Points	RMSE <sub>z</sub> GCP (m)	NVA- Non-vegetated Vertical Accuracy ((RMSE <sub>z</sub> x 1.9600)m
GCP	35	0.016	0.031

**Table 5 – Ground Control Points (GCP) vertical Accuracy of the RAW vertical accuracy results.**

## **DATA CLASSIFICATION AND EDITING**

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

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

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

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

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

After manual classification, the LAS tiles were peer reviewed and then underwent a final QA/QC. After the final QA/QC and corrections, the LAS files were then converted from LAS v1.2 to LAS v1.4 using TerraScan software to flag the overlap bit and withheld bit. LP360 64bit was used to deduce the Well Known Text (WKT) and an 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 87,976,140,013 lidar points the following table shows the total number of points for every class.

Project Count by Class		
Class 1	Processed, unclassified	13647747242
Class 2	Bare-earth ground	20309381881
Class 3	Low vegetation (0.5-5 ft)	1007222514
Class 4	Medium vegetation (5-20 ft)	3625262466
Class 5	High vegetation (>20 ft)	12171508437
Class 7	Low Noise	13017089
Class 9	Water	121497020
Class 17	Bridge Decks	1978864
Class 18	High Noise	4114195
Class 20	Ignored_Ground	5429706
Class Overlap 1	Overlap Processed, unclassified	40424
Class Overlap 2	Overlap Bare-earth ground	13207
Class Overlap 3	Overlap Low vegetation (0.5-5 ft)	60
Class Overlap 4	Overlap Medium vegetation (5-20 ft)	2026
Class Overlap 5	Overlap High vegetation (>20 ft)	7090
Class Overlap 7	Overlap Low Noise	224
Class Overlap 9	Overlap Water	4
Class Overlap 17	Overlap Bridge Decks	14074079398
Class Overlap 18	Overlap High Noise	10567899465
Class Overlap 20	Overlap Ignored_Ground	863806425
Class Withheld 1	Withheld Processed, unclassified	2750851989
Class Withheld 2	Withheld Bare-earth ground	8793359992
Class Withheld 3	Withheld Low vegetation (0.5-5 ft)	4367816
Class Withheld 4	Withheld Medium vegetation (5-20 ft)	8272578
Class Withheld 5	Withheld High vegetation (>20 ft)	1485803
Class Withheld 7	Withheld Low Noise	1669093
Class Withheld 18	Withheld High Noise	2765039
Class Overlap Withheld 1	Overlap Withheld Processed, unclassified	151732
Class Overlap Withheld 2	Overlap Withheld Bare-earth ground	107746
Class Overlap Withheld 3	Overlap Withheld Low vegetation (0.5-5 ft)	1450
Class Overlap Withheld 4	Overlap Withheld Medium vegetation (5-20 ft)	5788
Class Overlap Withheld 5	Overlap Withheld High vegetation (>20 ft)	3926
Class Overlap Withheld 7	Overlap Withheld Low Noise	87489
Class Overlap Withheld 18	Overlap Withheld High Noise	1835

Project Total Count		87976140013

**Table 6 – 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\_HicksDome\_FluorsparDistrict project.

### Data Voids

Acceptable voids (areas with no LiDAR returns in the LAS files) that are present in the majority of LiDAR projects include voids caused by bodies of water. No unacceptable voids are present in the Block\_1\_HicksDome\_FluorsparDistrict project.

### Bridge Removal Artifacts

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



Figure 8: Profile view of a classified bridge deck (blue) and ground (orange).

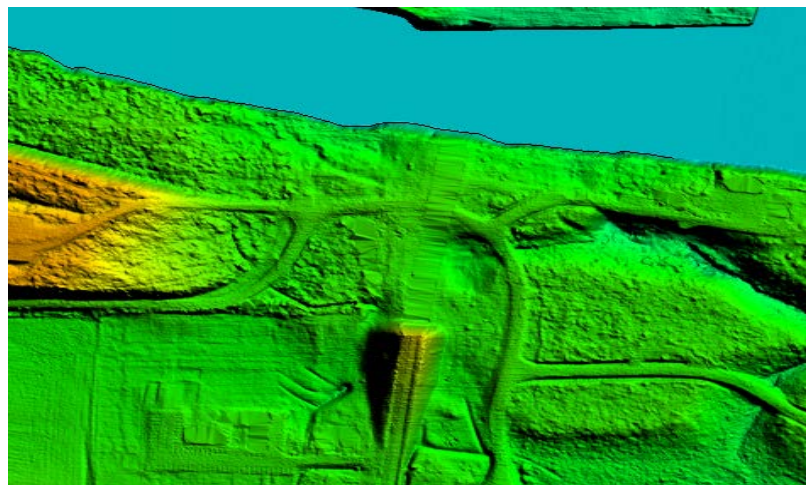
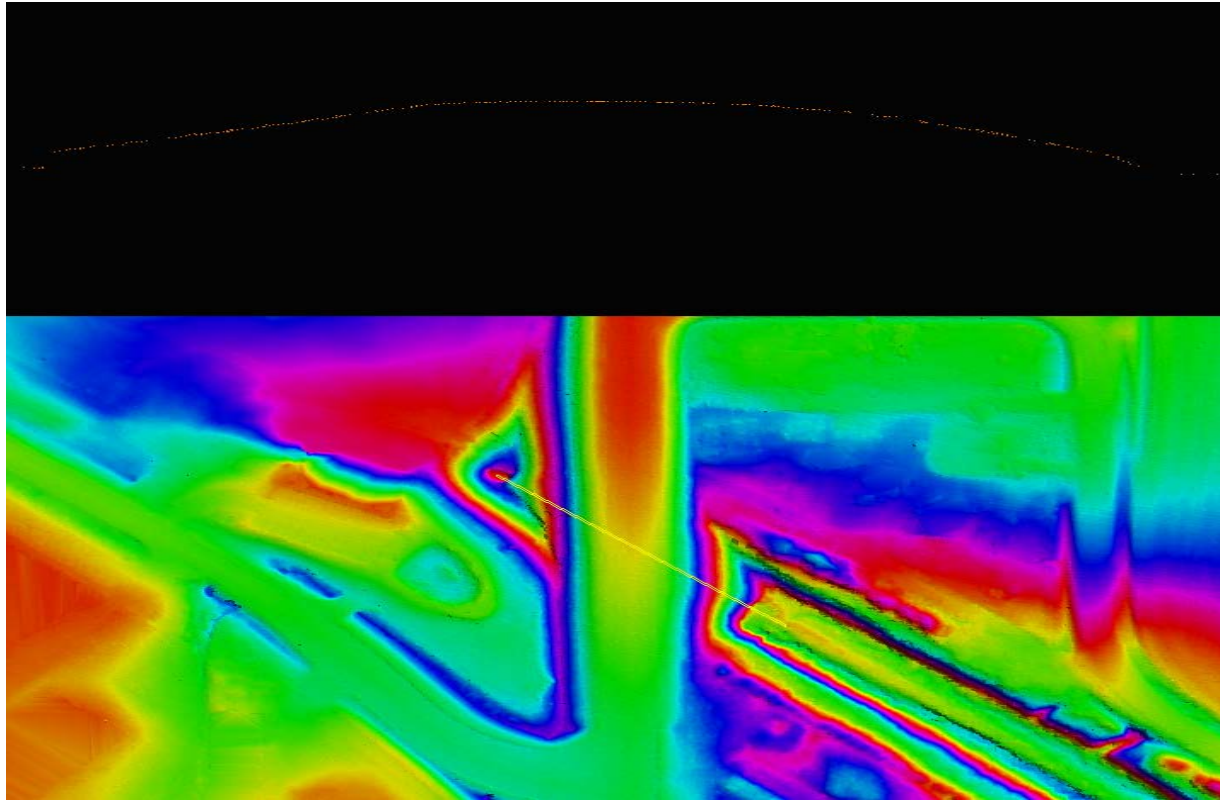


Figure 9: DEM with bridge removed from surface model.



### Culverts

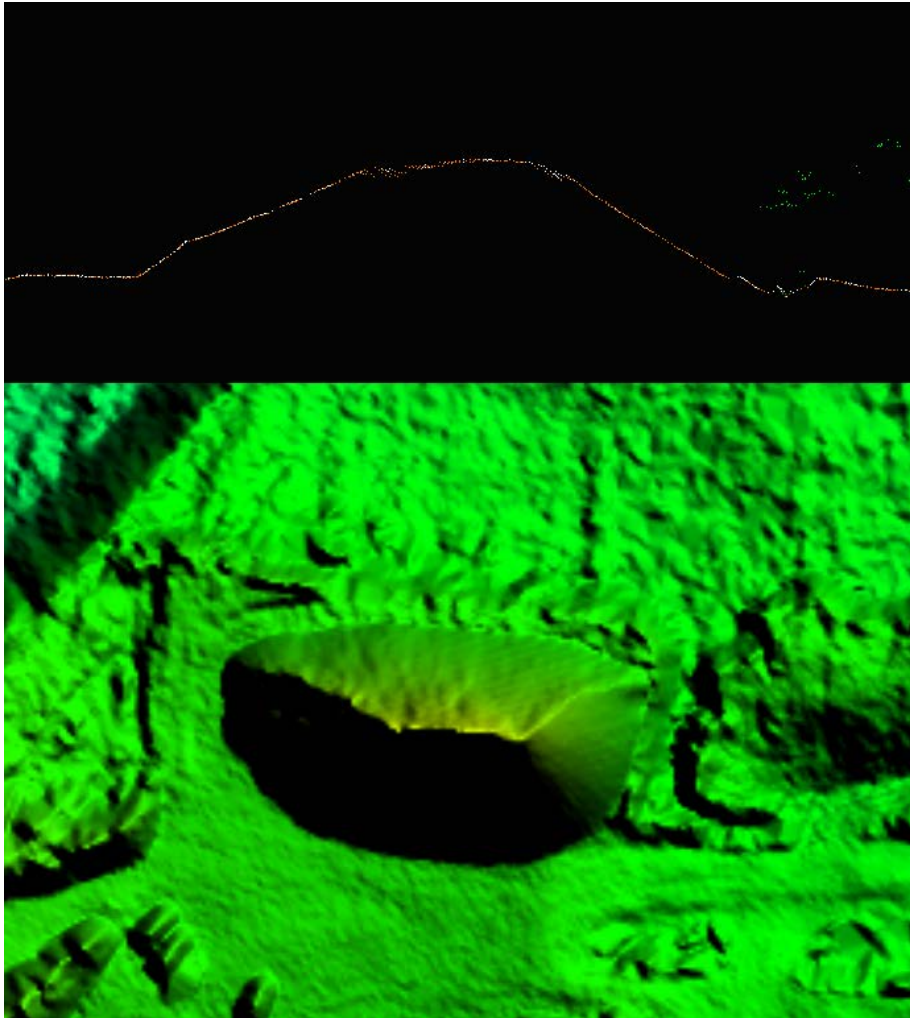
Bridges have been removed from the bare earth surface while culverts remain in the bare earth surface. In instances where it is difficult to determine if the feature is a culvert or bridge, such as with some small bridges, ASI erred on assuming they would be culverts especially if they are on secondary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



**Figure 10: 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

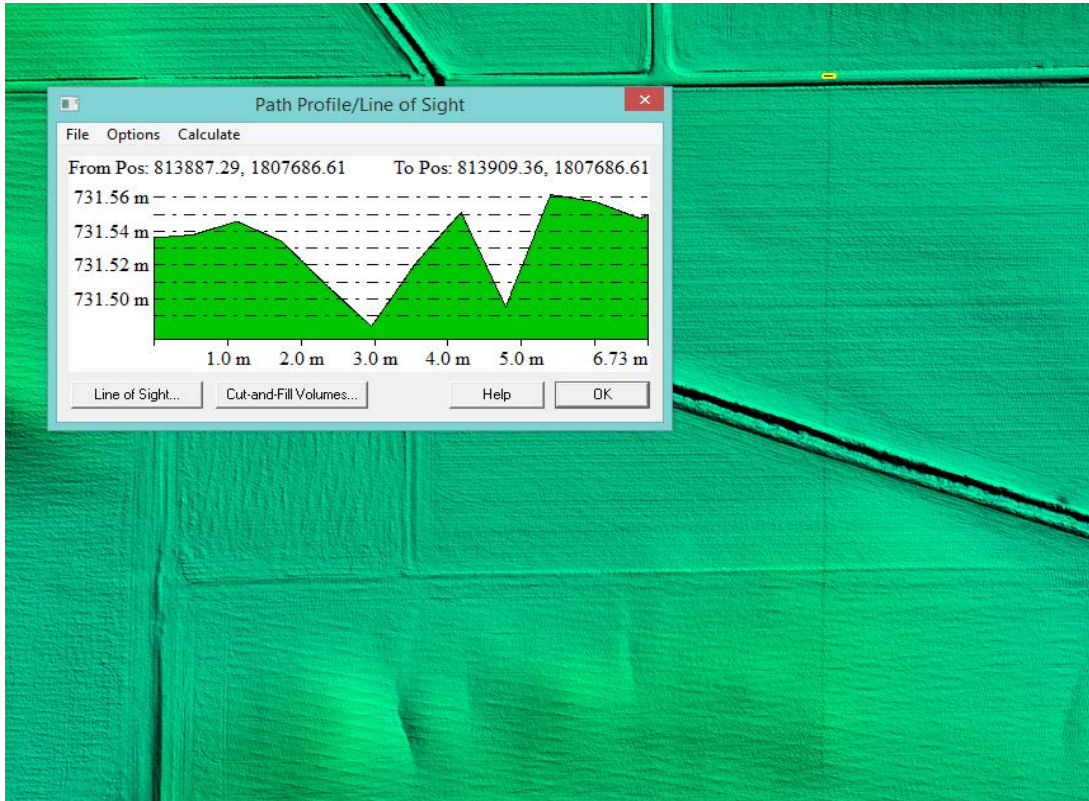
Irregularities in the natural ground exist and may be misinterpreted as artifacts that should be removed. Hills and dirt mounds are present throughout the project area. These features are correctly included in the ground.



**Figure 11 - 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

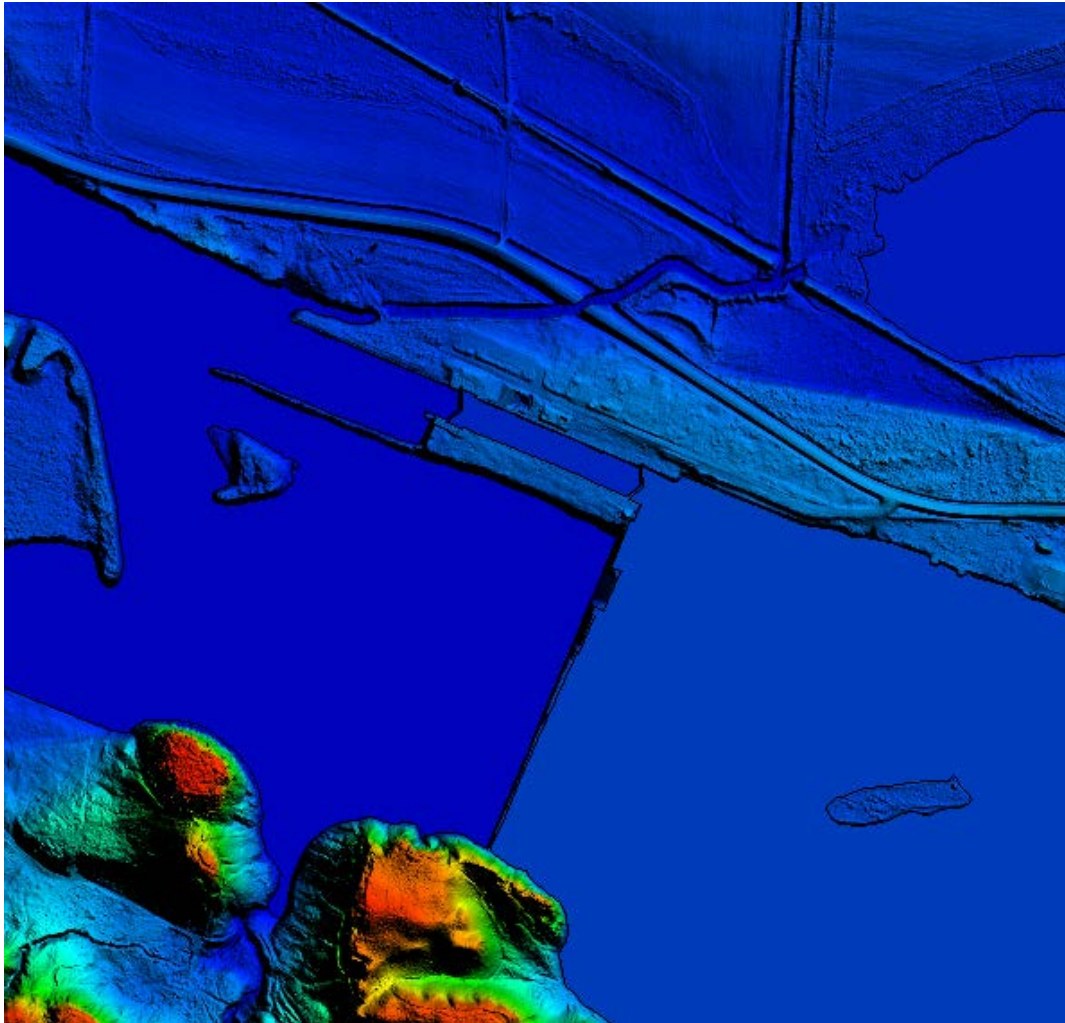
Ridges occur when there is a difference between the elevations of adjoining flight lines or swaths. Some flightline ridges are visible in the final DEMs but they do not exceed the project specifications and the overall relative accuracy requirements for the project area have been met. An example of a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



**Figure 12 – The flight line ridge is less than 8 cm. Overall, Block\_1\_HicksDome\_FluorsparDistrict project data meets the project specifications for 8 cm RMSDz relative accuracy requirement.**

### Dam and Lock system

Irregularities in the natural water flow exist in sections of river affected by Lock and Dam systems. Series of locks enable vessels to “step” up or down a river or canal from one water level to another. There are no Lock systems in the Block\_1\_HicksDome\_FluorsparDistrict Lidar project area.



**Figure 13 – DEM shows Large Dam structure that disrupts natural monotonic river flow, coupled with a lock system.**

### **FORMATTING**

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

## LiDAR Positional Accuracy

### BACKGROUND

ASI quantitatively tested the dataset by testing the vertical accuracy of the LiDAR. The vertical accuracy is tested by comparing the discreet measurement of the survey checkpoints to that of the interpolated value within the three closest LiDAR points that constitute the vertices of a three-dimensional triangular face of the TIN. Therefore, the end result is that only a small sample of the LiDAR data is actually tested. However there is an increased level of confidence with LiDAR data due to the relative accuracy. This relative accuracy in turn is based on how well one LiDAR point "fits" in comparison to the next contiguous LiDAR measurement, and is verified as part of the initial processing. If the relative accuracy of a dataset is within specifications and the dataset passes vertical accuracy requirements at the location of survey checkpoints, the vertical accuracy results can be applied to the whole dataset with high confidence due to the passing relative accuracy. ASI also tests the horizontal accuracy of LiDAR datasets when checkpoints are photo-identifiable in the intensity imagery. Photo-identifiable checkpoints in intensity imagery typically include checkpoints located at the ends of paint stripes on concrete or asphalt surfaces or checkpoints located at 90 degree corners of different reflectivity, e.g. a sidewalk corner adjoining a grass surface. The XY coordinates of checkpoints, as defined in the intensity imagery, are compared to surveyed XY coordinates for each photo-identifiable checkpoint. These differences are used to compute the tested horizontal accuracy of the LiDAR. As not all projects contain photo-identifiable checkpoints, the horizontal accuracy of the LiDAR cannot always be tested.

### SURVEY VERTICAL ACCURACY CHECKPOINTS

For the vertical accuracy assessment of Block\_1\_HicksDome\_FluorsparDistrict project, fifty seven check points were surveyed. All of those check points are located within bare earth/open terrain (57 NVA points). Please see provided survey report which details and validates how the survey was completed for this project. Checkpoints were evenly distributed throughout the project area so as to cover as many flight lines as possible using the "dispersed method" of placement. All checkpoints surveyed for vertical accuracy testing purposes are listed in the following table.

Point ID	NAD83 (2011) State Plane IL_East	NAD83 (2011) State Plane IL_East	NAVD88 (Geoid192B)
	Easting (USft)	Northing (USft)	Elevation (USft)
NVA201	893901.383	700293.333	568.094
NVA202	954111.867	699889.543	441.91
NVA203	990225.263	696312.392	467.239
NVA211	964018.552	673120.405	449.73
NVA212	926060.686	675790.978	546.612
NVA213	892965.782	654295.647	426.604
NVA214	949247.252	646911.636	472.907

NVA215	976599.194	623393.661	440.688
NVA221	979035.972	589032.778	461.277
NVA222	927604.418	621010.087	423.346
NVA223	895073.769	610265.436	443.657
NVA224	883262.024	558089.864	513.369
NVA225	920501.139	565524.408	465.453
NVA226	949337.311	573238.235	389.707
NVA234	949218.032	535679.039	430.213
NVA235	925773.223	520793.293	476.903
NVA236	885486.501	515290.423	465.81
NVA237	776759.92	519754.567	475.949
NVA238	819709.414	518484.525	435.291
NVA239	861381.307	509378.248	437.033
NVA240	914113.536	483777.568	434.868
NVA241	938660.251	483665.973	399.574
NVA248	948400.421	456946.06	379.52
NVA249	912686.837	462291.173	414.081
NVA250	860849.449	481309.912	480.581
NVA251	818872.908	482018.759	447.078
NVA252	776669.027	478850.641	434.164
NVA253	759277.355	447074.239	435.701
NVA256	954639.476	419977.099	427.118
NVA257	924743.992	422669.728	406.53
NVA258	886294.759	431275.648	400.807
NVA259	859519.729	456087.702	494.951
NVA260	805574.109	450700.464	400.178
NVA261	751785.395	424389.542	384.408
NVA262	763461.312	393882.316	431.549
NVA263	813484.461	422941.244	465.361
NVA264	833698.289	405081.41	471.495
NVA265	892238.403	410609.958	421.308
NVA266	928210.003	390404.513	369.717
NVA271	926701.498	354963.812	385.418
NVA272	895909.19	370872.854	394.223
NVA273	852486.737	387921.411	511.541
NVA274	808551.982	388061.124	439.568
NVA275	758205.376	377595.003	437.446
NVA276	744213.983	356871.81	587.961
NVA277	796882.385	346314.385	554.192
NVA278	837082.147	347187.76	505.047
NVA279	875341.941	344996.564	406.349

NVA280	902186.248	353297.877	421.688
NVA289	859678.015	319572.785	685.81
NVA290	813678.622	316103.013	775.031
NVA291	782036.129	324327.995	813.931
NVA298	798191.917	293677.528	521.701
NVA299	832108.89	295042.097	603.384
NVA300	855470.635	291841.581	429.119
NVA305	829551.631	272737.771	399.096
NVA306	784967.193	256591.283	482.798
VVA201	893830.398	696836.516	528.307
VVA202	949192.242	694725.748	448.578
VVA209	954380.904	673311.951	458.102
VVA210	910322.811	645654.605	445.489
VVA212	969626.064	625266.574	454.958
VVA219	925363.075	566780.031	428.743
VVA220	883344.708	560851.057	486.938
VVA221	922733.596	520625.323	456.541
VVA222	961976.078	546772.903	424.501
VVA228	935714.917	489263.884	388.248
VVA229	877836.796	504386.613	511.233
VVA230	855397.91	526968.952	442.881
VVA231	820791.924	517712.384	447.283
VVA232	776746.919	517568.935	466.218
VVA233	773523.107	477946.487	454.069
VVA234	818752.062	482324.379	448.233
VVA235	858119.765	454656.234	484.751
VVA236	901502.322	457131.67	452.095
VVA237	946607.251	461852.273	376.993
VVA242	954890.189	417439.177	388.314
VVA243	909608.83	425852.449	401.535
VVA244	855325.624	419952.188	515.18
VVA245	821741.996	449502.693	399.854
VVA246	758778.357	439243.842	385.123
VVA247	756175.728	407273.95	417.51
VVA248	810967.108	409075.834	438.073
VVA249	844836.389	387286.376	488.491
VVA250	919551.451	390447.472	365.682
VVA254	967172.642	355634.39	432.552
VVA255	925677.935	358456.518	380.842
VVA256	866656.608	373727.074	546.507

VVA257	812026.06	363655.037	505.942
VVA258	755843.658	377768.788	439.695
VVA259	760601.929	346496.6	635.209
VVA261	799540.596	336585.772	628.724
VVA262	856597.708	333031.554	612.717
VVA271	861809.712	292182.378	387.277
VVA272	839621.198	308966.84	756.739
VVA273	797680.549	293763.422	509.536
VVA280	785454.786	256711.305	479.536
VVA281	836297.235	260776.033	527.523

**Table 7 – Block\_1\_HicksDome\_FluorsparDistrict project LiDAR Checkpoints.**



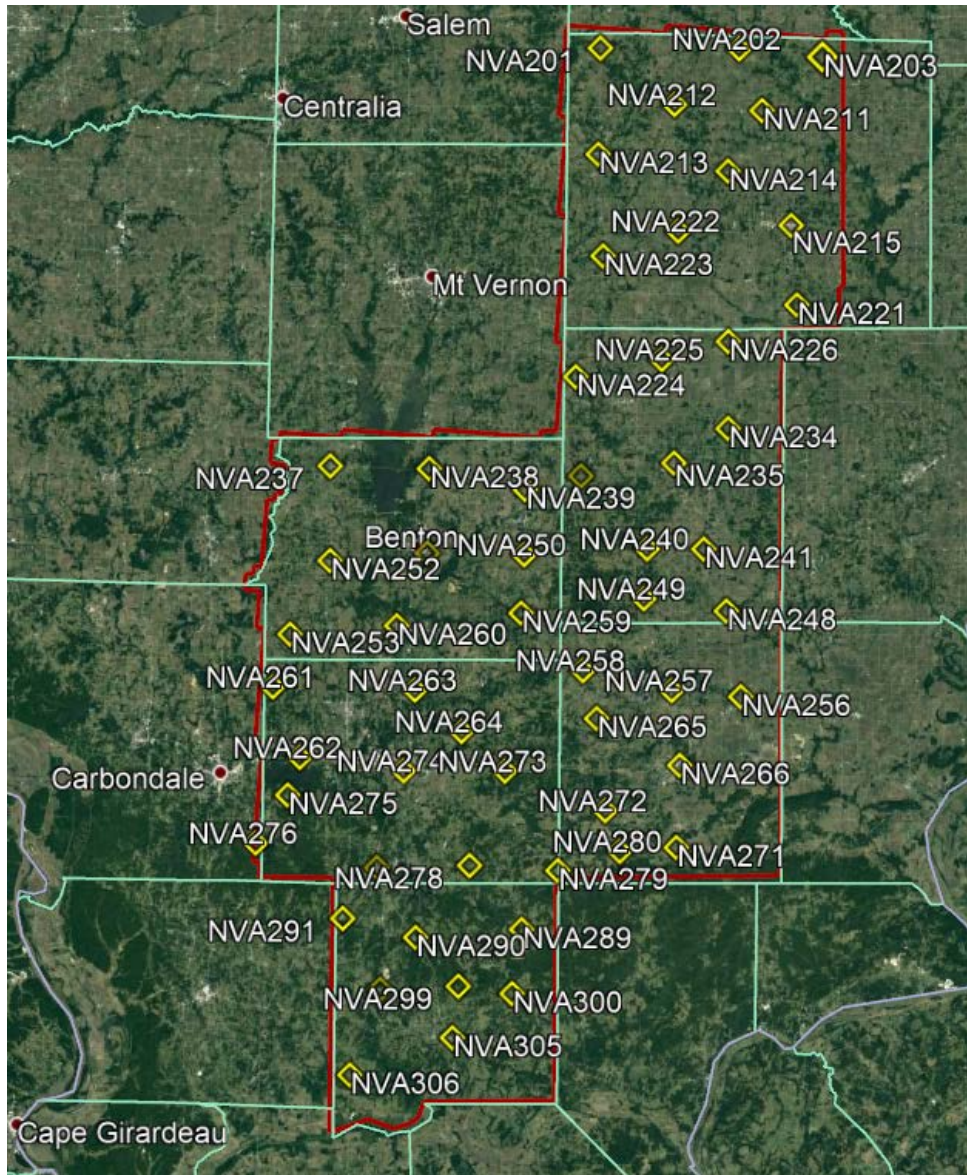


Figure 14 – Location of Block\_1\_HicksDome\_FluorsparDistrict LiDAR NVA Checkpoints

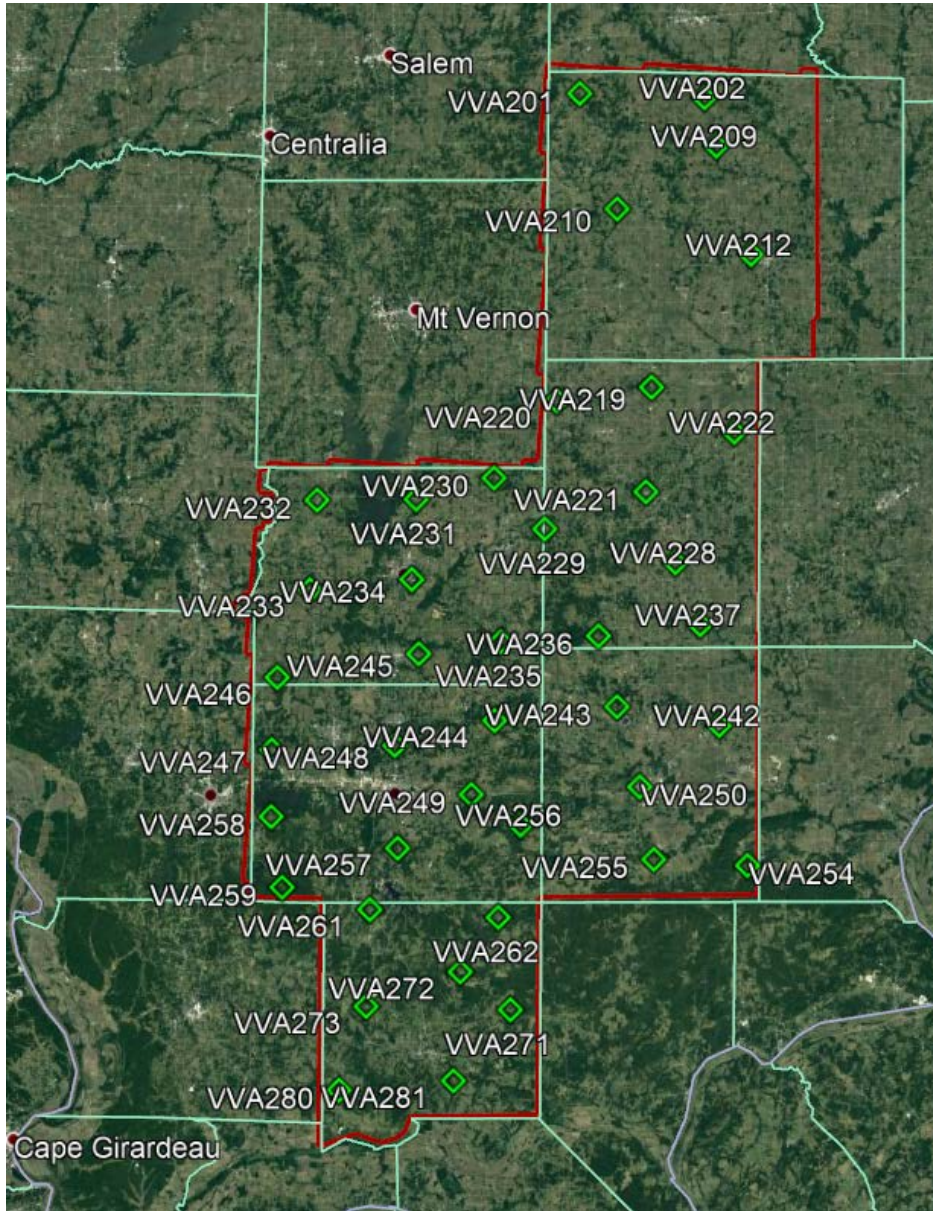


Figure 15- No VVA Checkpoints were located in Block\_1\_HicksDome\_FluorsparDistrict

## VERTICAL ACCURACY TEST PROCEDURES

NVA (Non-vegetated Vertical Accuracy) is determined with check points located only in nonvegetated terrain, including open terrain (grass, dirt, sand, and/or rocks) and urban areas, where there is a very high probability that the LiDAR sensor will have detected the bare-earth ground surface and where random errors are expected to follow a normal error distribution. The NVA determines how well the calibrated LiDAR sensor performed. With a normal error distribution, the vertical accuracy at the 95% confidence level is computed as the vertical root mean square error (RMSEz) of the checkpoints x 1.9600. For the Block\_1\_HicksDome\_FluorsparDistrict project, vertical accuracy must be 19.6 cm or less based on an RMSEz of 10 cm x 1.9600. VVA (Vegetated Vertical Accuracy) is determined with all checkpoints in vegetated land cover categories, including tall grass, weeds, crops, brush and low trees, and fully forested areas, where there is a possibility that the LiDAR sensor and post-processing may yield elevation errors that do not follow a normal error distribution. VVA at the 95% confidence level equals the 95th percentile error for all checkpoints in all vegetated land cover categories combined. The Block\_1\_HicksDome\_FluorsparDistrict Lidar project VVA standard is 29.4 cm based on the 95th percentile.

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

Table 8 – Acceptance Criteria.

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

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

## VERTICAL ACCURACY RESULTS

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

Land Cover Category	# of Points	NVA – Non-vegetated Vertical Accuracy (95% confidence)Spec = 0.196 m	VVA – Vegetated Vertical Accuracy (95 <sup>th</sup> Percentile) spec = 0.294 m
NVA	57	0.072	
VVA	41		0.089

Table 9 – Tested NVA and VVA.

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

100 % of Totals	# of Points	RMSEz NVA (m)	NVA-Non-vegetated Vertical Accuracy ((RMSEz x 1.9600) m)	Mean (m)	Median (m)	Skew	Std Dev (m)	Min (m)	Max (m)	Kurtosis
NVA	57	0.037	0.072	0.007	-0.007	0.001	0.036	-0.078	0.086	0.083

Table 10 – Non Vegetated Vertical (NVA) accuracy assessment results.

## HORIZONTAL ACCURACY TEST PROCEDURES

This data set was produced to meet ASPRS “Positional Accuracy Standards for Digital Geospatial Data” (2014) for a 19.7 (cm) RMSE<sub>x</sub> / RMSE<sub>y</sub> Horizontal Accuracy Class which equates to Positional Horizontal Accuracy = +/- 38.6 cm at a 95% confidence level.”

## Breakline Production Methodology

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

### **BREAKLINE QUALITATIVE ASSESSMENT**

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

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

### **FEATURE DEFINITION**

#### **Inland Streams and Rivers**

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

#### **Inland Ponds and Lakes**

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

#### **Islands**

Permanent island 0.4 hectares (1 acre) or larger were delineated within all water bodies. Breaklines have been delivered in PolygonZ format in the final GDB

#### **Bridge Breaklines**

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

## Intensity Imagery Production & Qualitative Assessment

### **INTENSITY PRODUCTION METHODOLOGY**

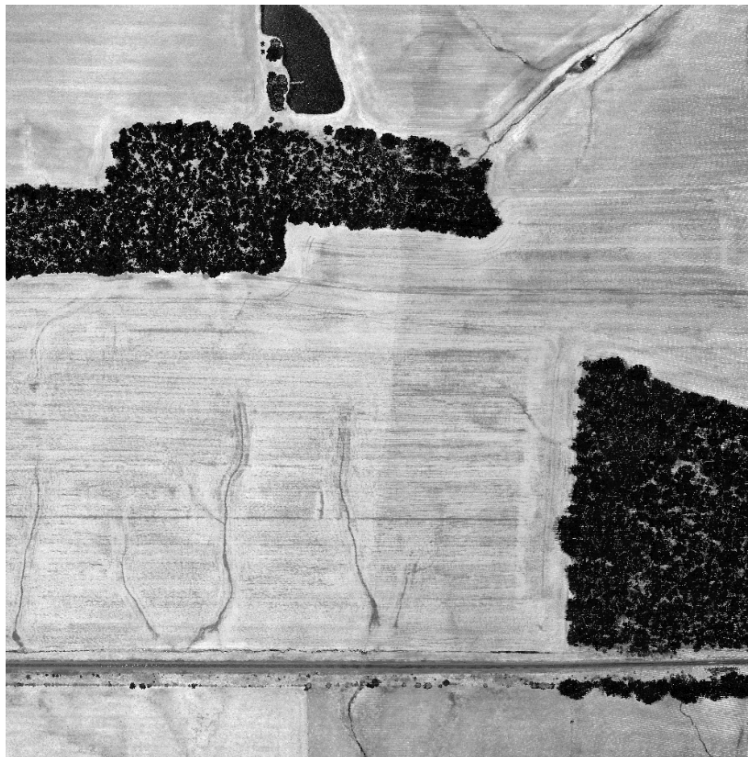
ASI utilized MicroStation in conjunction with TerraSolid's TerraScan for Intensity production. Global Mapper was used to QC the products. ArcGIS was used to finalize the Intensity's projection.

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

### **INTENSITY QUALITATIVE ASSESSMENT**

ASI performed a qualitative assessment of the Intensity deliverables to ensure that all tiled Intensity products were delivered with the proper extents, and contained proper referencing information. This lidar survey was conducted over a span of time consisting of both day and nighttime missions. In this data set Lidar collected during daytime hours tends to have intensity returns of lighter higher range values as opposed to dark lower range value intensity returns of missions flown at night. Lighter daytime and darker nighttime intensity values are evident in the intensities of this dataset.

Figure 16, is an example of an Intensity Image that contains both daytime and nighttime collections of lidar data. The left side of the image contains higher intensity values consistent with a daytime collection, while the darker right side exhibits lower intensity values consistent with a night time collection.



**Figure 16 – Intensity Image example.**

## DEM Production & Qualitative Assessment

### **DEM PRODUCTION METHODOLOGY**

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

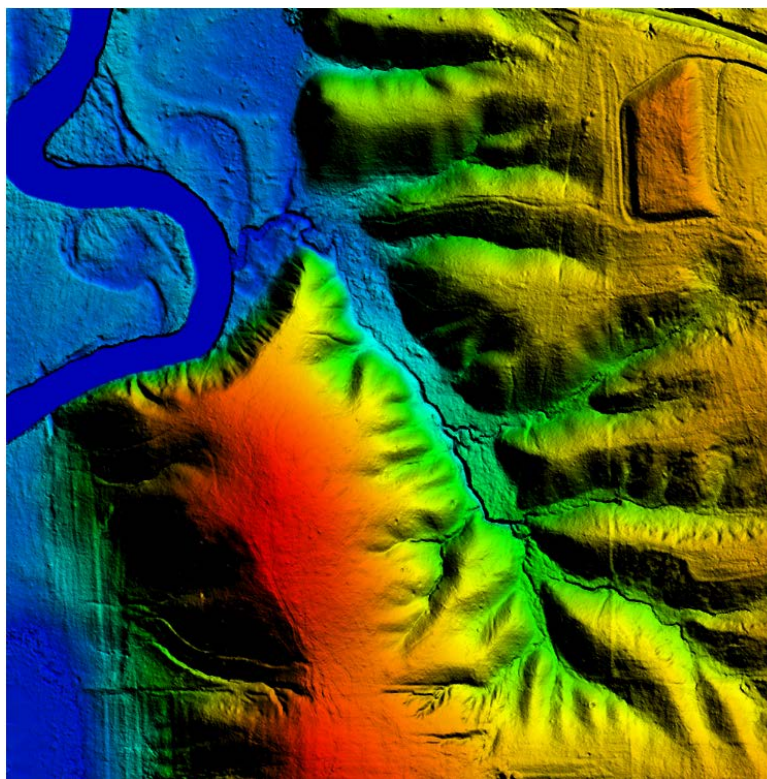


Figure 17 – Block\_1\_HicksDome\_FluorsparDistrict project bare earth DEM

## DEM VERTICAL ACCURACY RESULTS

The same 57 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 11; 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	57	0.07	
VVA	41		0.92

**Table 11 – 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 = Not Complete m with a Not Complete m accuracy at 95 % confidence level. Actual VVA accuracy tested Not Complete 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\_HicksDome\_FluorsparDistrict project satisfies the project's pre-defined vertical accuracy criteria.



## Appendix A: List of Delivered LAS File

7390_4650	7430_4750	7450_4290	7470_3870	7470_4770
7390_4670	7450_3410	7450_4310	7470_3890	7470_4790
7390_4690	7450_3430	7450_4330	7470_3910	7470_4810
7390_4710	7450_3450	7450_4350	7470_3930	7470_4830
7390_4730	7450_3470	7450_4370	7470_3950	7470_4850
7410_3470	7450_3490	7450_4390	7470_3970	7470_4870
7410_3490	7450_3510	7450_4490	7470_3990	7470_4890
7410_4650	7450_3530	7450_4510	7470_4010	7470_4910
7410_4670	7450_3550	7450_4530	7470_4030	7470_4930
7410_4690	7450_3570	7450_4550	7470_4050	7470_4950
7410_4710	7450_3590	7450_4570	7470_4070	7470_4970
7410_4730	7450_3610	7450_4590	7470_4090	7470_4990
7430_3410	7450_3630	7450_4610	7470_4110	7470_5010
7430_3470	7450_3650	7450_4630	7470_4130	7470_5030
7430_3490	7450_3670	7450_4650	7470_4150	7490_3410
7430_3510	7450_3690	7450_4670	7470_4170	7490_3430
7430_3530	7450_3710	7450_4690	7470_4190	7490_3450
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7430_3590	7450_3770	7450_4750	7470_4250	7490_3510
7430_3610	7450_3790	7450_4770	7470_4270	7490_3530
7430_3630	7450_3810	7450_4790	7470_4290	7490_3550
7430_3650	7450_3830	7470_3410	7470_4310	7490_3570
7430_3670	7450_3850	7470_3430	7470_4330	7490_3590
7430_3690	7450_3870	7470_3450	7470_4350	7490_3610
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7430_3730	7450_3910	7470_3490	7470_4390	7490_3650
7430_3990	7450_3930	7470_3510	7470_4410	7490_3670
7430_4010	7450_3950	7470_3530	7470_4430	7490_3690
7430_4030	7450_3970	7470_3550	7470_4450	7490_3710
7430_4050	7450_3990	7470_3570	7470_4470	7490_3730
7430_4070	7450_4010	7470_3590	7470_4490	7490_3750
7430_4090	7450_4030	7470_3610	7470_4510	7490_3770
7430_4110	7450_4050	7470_3630	7470_4530	7490_3790
7430_4130	7450_4070	7470_3650	7470_4550	7490_3810
7430_4150	7450_4090	7470_3670	7470_4570	7490_3830
7430_4490	7450_4110	7470_3690	7470_4590	7490_3850
7430_4510	7450_4130	7470_3710	7470_4610	7490_3870
7430_4530	7450_4150	7470_3730	7470_4630	7490_3890
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7430_4670	7450_4210	7470_3790	7470_4690	7490_3950
7430_4690	7450_4230	7470_3810	7470_4710	7490_3970
7430_4710	7450_4250	7470_3830	7470_4730	7490_3990
7430_4730	7450_4270	7470_3850	7470_4750	7490_4010

7490_4030	7490_4970	7510_4150	7510_5190	7530_4210
7490_4050	7490_4990	7510_4170	7510_5210	7530_4230
7490_4070	7490_5010	7510_4190	7510_5230	7530_4250
7490_4090	7490_5030	7510_4210	7510_5250	7530_4270
7490_4110	7490_5050	7510_4230	7510_5270	7530_4290
7490_4130	7490_5190	7510_4250	7510_5290	7530_4310
7490_4150	7490_5210	7510_4270	7510_5310	7530_4330
7490_4170	7490_5230	7510_4290	7530_3410	7530_4350
7490_4190	7490_5250	7510_4310	7530_3430	7530_4370
7490_4210	7490_5270	7510_4330	7530_3450	7530_4390
7490_4230	7510_3410	7510_4350	7530_3470	7530_4410
7490_4250	7510_3430	7510_4370	7530_3490	7530_4430
7490_4270	7510_3450	7510_4390	7530_3510	7530_4450
7490_4290	7510_3470	7510_4410	7530_3530	7530_4470
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7490_4390	7510_3570	7510_4510	7530_3630	7530_4570
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7490_4450	7510_3630	7510_4570	7530_3690	7530_4630
7490_4470	7510_3650	7510_4590	7530_3710	7530_4650
7490_4490	7510_3670	7510_4610	7530_3730	7530_4670
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7490_4530	7510_3710	7510_4650	7530_3770	7530_4710
7490_4550	7510_3730	7510_4670	7530_3790	7530_4730
7490_4570	7510_3750	7510_4690	7530_3810	7530_4750
7490_4590	7510_3770	7510_4710	7530_3830	7530_4770
7490_4610	7510_3790	7510_4730	7530_3850	7530_4790
7490_4630	7510_3810	7510_4750	7530_3870	7530_4810
7490_4650	7510_3830	7510_4770	7530_3890	7530_4830
7490_4670	7510_3850	7510_4790	7530_3910	7530_4850
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7550_4010	7550_4950	7570_3950	7570_4890	7590_3890
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7550_4150	7550_5090	7570_4090	7570_5030	7590_4030
7550_4170	7550_5110	7570_4110	7570_5050	7590_4050
7550_4190	7550_5130	7570_4130	7570_5070	7590_4070
7550_4210	7550_5150	7570_4150	7570_5090	7590_4090
7550_4230	7550_5170	7570_4170	7570_5110	7590_4110

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7590_4230	7590_5170	7610_4170	7610_5110	7630_4110
7590_4250	7590_5190	7610_4190	7610_5130	7630_4130
7590_4270	7590_5210	7610_4210	7610_5150	7630_4150
7590_4290	7590_5230	7610_4230	7610_5170	7630_4170
7590_4310	7590_5250	7610_4250	7610_5190	7630_4190
7590_4330	7590_5270	7610_4270	7610_5210	7630_4210
7590_4350	7590_5290	7610_4290	7610_5230	7630_4230
7590_4370	7590_5310	7610_4310	7610_5250	7630_4250
7590_4390	7590_5330	7610_4330	7610_5270	7630_4270
7590_4410	7610_3410	7610_4350	7610_5290	7630_4290
7590_4430	7610_3430	7610_4370	7610_5310	7630_4310
7590_4450	7610_3450	7610_4390	7610_5330	7630_4330
7590_4470	7610_3470	7610_4410	7630_3410	7630_4350
7590_4490	7610_3490	7610_4430	7630_3430	7630_4370
7590_4510	7610_3510	7610_4450	7630_3450	7630_4390
7590_4530	7610_3530	7610_4470	7630_3470	7630_4410
7590_4550	7610_3550	7610_4490	7630_3490	7630_4430
7590_4570	7610_3570	7610_4510	7630_3510	7630_4450
7590_4590	7610_3590	7610_4530	7630_3530	7630_4470
7590_4610	7610_3610	7610_4550	7630_3550	7630_4490
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9750_5870	9750_6810	9770_6470	9790_6130	9810_5790
9750_5890	9750_6830	9770_6490	9790_6150	9810_5810
9750_5910	9750_6850	9770_6510	9790_6170	9810_5830
9750_5930	9750_6870	9770_6530	9790_6190	9810_5850
9750_5950	9750_6890	9770_6550	9790_6210	9810_5870
9750_5970	9750_6910	9770_6570	9790_6230	9810_5890
9750_5990	9750_6930	9770_6590	9790_6250	9810_5910
9750_6010	9750_6950	9770_6610	9790_6270	9810_5930
9750_6030	9750_6970	9770_6630	9790_6290	9810_5950
9750_6050	9750_6990	9770_6650	9790_6310	9810_5970
9750_6070	9750_7010	9770_6670	9790_6330	9810_5990
9750_6090	9750_7030	9770_6690	9790_6350	9810_6010
9750_6110	9750_7050	9770_6710	9790_6370	9810_6030
9750_6130	9770_5790	9770_6730	9790_6390	9810_6050
9750_6150	9770_5810	9770_6750	9790_6410	9810_6070
9750_6170	9770_5830	9770_6770	9790_6430	9810_6090
9750_6190	9770_5850	9770_6790	9790_6450	9810_6110
9750_6210	9770_5870	9770_6810	9790_6470	9810_6130
9750_6230	9770_5890	9770_6830	9790_6490	9810_6150
9750_6250	9770_5910	9770_6850	9790_6510	9810_6170
9750_6270	9770_5930	9770_6870	9790_6530	9810_6190
9750_6290	9770_5950	9770_6890	9790_6550	9810_6210
9750_6310	9770_5970	9770_6910	9790_6570	9810_6230
9750_6330	9770_5990	9770_6930	9790_6590	9810_6250
9750_6350	9770_6010	9770_6950	9790_6610	9810_6270
9750_6370	9770_6030	9770_6970	9790_6630	9810_6290
9750_6390	9770_6050	9770_6990	9790_6650	9810_6310
9750_6410	9770_6070	9770_7010	9790_6670	9810_6330
9750_6430	9770_6090	9770_7030	9790_6690	9810_6350
9750_6450	9770_6110	9770_7050	9790_6710	9810_6370
9750_6470	9770_6130	9790_5790	9790_6730	9810_6390
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9750_6570	9770_6230	9790_5890	9790_6830	9810_6490
9750_6590	9770_6250	9790_5910	9790_6850	9810_6510
9750_6610	9770_6270	9790_5930	9790_6870	9810_6530
9750_6630	9770_6290	9790_5950	9790_6890	9810_6550
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9750_6690	9770_6350	9790_6010	9790_6950	9810_6610
9750_6710	9770_6370	9790_6030	9790_6970	9810_6630
9750_6730	9770_6390	9790_6050	9790_6990	9810_6650
9750_6750	9770_6410	9790_6070	9790_7010	9810_6670

9810_6690	9830_6350	9850_6010	9850_6950	9870_6610
9810_6710	9830_6370	9850_6030	9850_6970	9870_6630
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9810_6950	9830_6610	9850_6270	9870_5930	9870_6870
9810_6970	9830_6630	9850_6290	9870_5950	9870_6890
9810_6990	9830_6650	9850_6310	9870_5970	9870_6910
9810_7010	9830_6670	9850_6330	9870_5990	9870_6930
9810_7030	9830_6690	9850_6350	9870_6010	9870_6950
9810_7050	9830_6710	9850_6370	9870_6030	9870_6970
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9830_5850	9830_6790	9850_6450	9870_6110	9890_5790
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9830_5910	9830_6850	9850_6510	9870_6170	9890_5850
9830_5930	9830_6870	9850_6530	9870_6190	9890_5870
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9830_6010	9830_6950	9850_6610	9870_6270	9890_5950
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9830_6090	9830_7030	9850_6690	9870_6350	9890_6030
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9830_6130	9850_5790	9850_6730	9870_6390	9890_6070
9830_6150	9850_5810	9850_6750	9870_6410	9890_6090
9830_6170	9850_5830	9850_6770	9870_6430	9890_6110
9830_6190	9850_5850	9850_6790	9870_6450	9890_6130
9830_6210	9850_5870	9850_6810	9870_6470	9890_6150
9830_6230	9850_5890	9850_6830	9870_6490	9890_6170
9830_6250	9850_5910	9850_6850	9870_6510	9890_6190
9830_6270	9850_5930	9850_6870	9870_6530	9890_6210
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9890_6350	9910_6030	9910_6970	9930_6610	9950_6250
9890_6370	9910_6050	9910_6990	9930_6630	9950_6270
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9890_6450	9910_6130	9910_7070	9930_6710	9950_6350
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9890_6570	9910_6250	9930_5890	9930_6830	9950_6470
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9890_6670	9910_6350	9930_5990	9930_6930	9950_6570
9890_6690	9910_6370	9930_6010	9930_6950	9950_6590
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9890_6770	9910_6450	9930_6090	9930_7030	9950_6670
9890_6790	9910_6470	9930_6110	9930_7050	9950_6690
9890_6810	9910_6490	9930_6130	9930_7070	9950_6710
9890_6830	9910_6510	9930_6150	9950_5790	9950_6730
9890_6850	9910_6530	9930_6170	9950_5810	9950_6750
9890_6870	9910_6550	9930_6190	9950_5830	9950_6770
9890_6890	9910_6570	9930_6210	9950_5850	9950_6790
9890_6910	9910_6590	9930_6230	9950_5870	9950_6810
9890_6930	9910_6610	9930_6250	9950_5890	9950_6830
9890_6950	9910_6630	9930_6270	9950_5910	9950_6850
9890_6970	9910_6650	9930_6290	9950_5930	9950_6870
9890_6990	9910_6670	9930_6310	9950_5950	9950_6890
9890_7010	9910_6690	9930_6330	9950_5970	9950_6910
9890_7030	9910_6710	9930_6350	9950_5990	9950_6930
9910_5790	9910_6730	9930_6370	9950_6010	9950_6950
9910_5810	9910_6750	9930_6390	9950_6030	9950_6970
9910_5830	9910_6770	9930_6410	9950_6050	9950_6990
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9910_5890	9910_6830	9930_6470	9950_6110	9950_7050
9910_5910	9910_6850	9930_6490	9950_6130	9950_7070
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9970_6010	9970_6230	9970_6450	9970_6670	9970_6890
9970_6030	9970_6250	9970_6470	9970_6690	9970_6910
9970_6050	9970_6270	9970_6490	9970_6710	9970_6930
9970_6070	9970_6290	9970_6510	9970_6730	9970_6950
9970_6090	9970_6310	9970_6530	9970_6750	9970_6970
9970_6110	9970_6330	9970_6550	9970_6770	9970_6990
9970_6130	9970_6350	9970_6570	9970_6790	9970_7010
9970_6150	9970_6370	9970_6590	9970_6810	9970_7030
9970_6170	9970_6390	9970_6610	9970_6830	9970_7050
9970_6190	9970_6410	9970_6630	9970_6850	9970_7070
9970_6210	9970_6430	9970_6650	9970_6870	



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## Appendix B: Mission GPS and IMU Processing Report

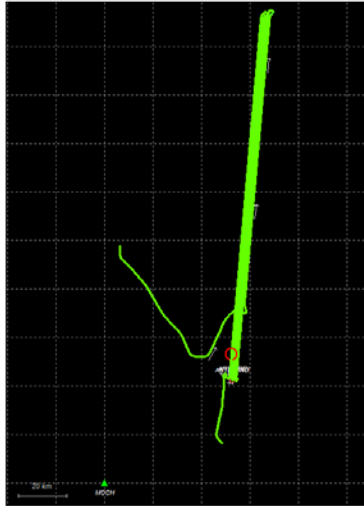
3/6/2020

Inertial Explorer Project HicksDome\_20200229\_161043

**Output Results for HicksDome\_20200229\_161043**

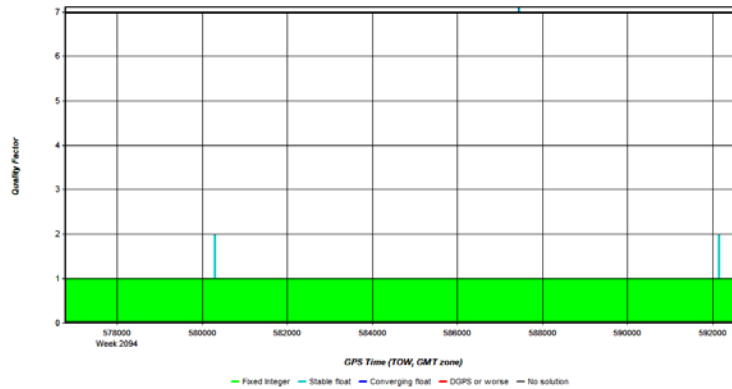
Inertial Explorer Version 8.80.2503  
 03/06/2020

**Figure 1: Smoothed TC Combined - Map**



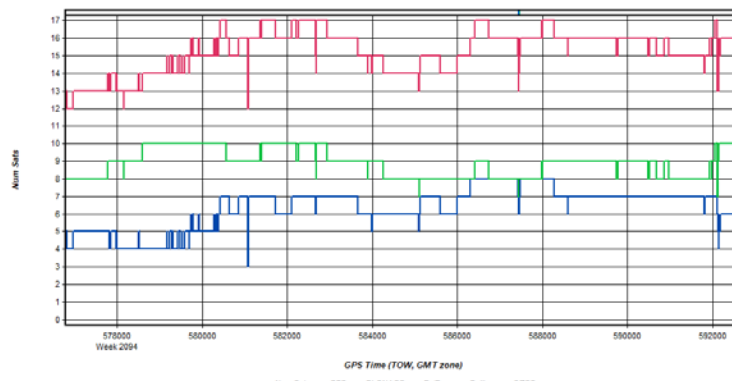
Process	HicksDome_20200229_161043	by Unknown	on 3/6/2020	at 10:47:19
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**Figure 2: HicksDome\_20200229\_161043 [Smoothed TC Combined] - Quality Factor Plot**



Process	HicksDome_20200229_161043	by Unknown	on 3/6/2020	at 10:47:19
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**Figure 3: HicksDome\_20200229\_161043 [Smoothed TC Combined] - Number of Satellites Line Plot**

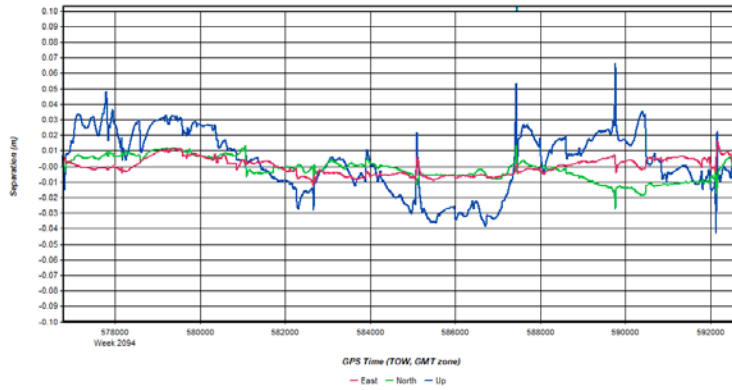


3/6/2020

Inertial Explorer Project HicksDome\_20200229\_161043

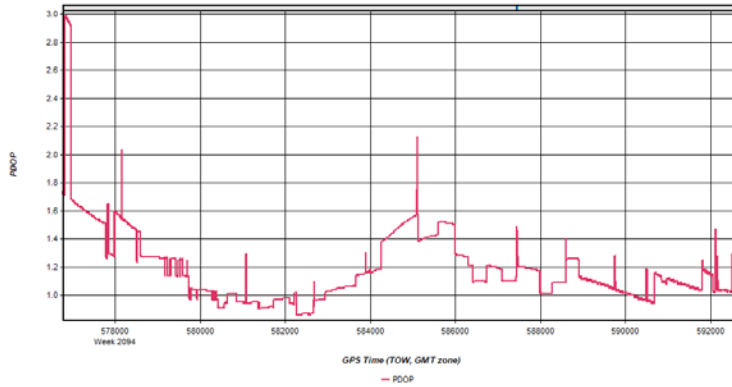
Process HicksDome\_20200229\_161043 by Unknown on 3/6/2020 at 10:47:19

Figure 4: HicksDome\_20200229\_161043 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200229\_161043 by Unknown on 3/6/2020 at 10:47:19

Figure 5: HicksDome\_20200229\_161043 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200229\_161043 by Unknown on 3/6/2020 at 10:47:19

3/6/2020

Inertial Explorer Project HicksDome\_20200229\_210131

### Output Results for HicksDome\_20200229\_210131

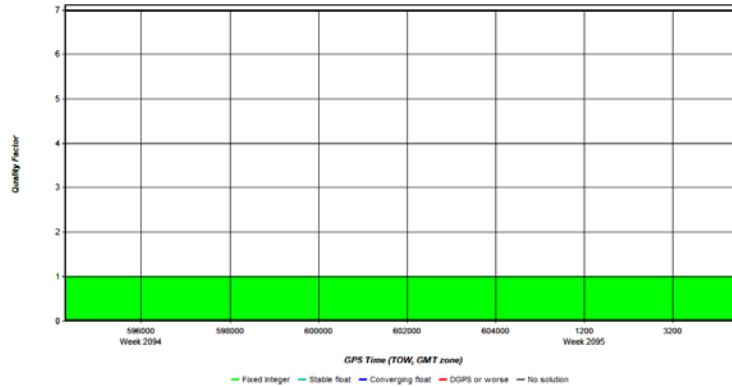
Inertial Explorer Version 8.80.2503  
03/06/2020

Figure 1: Smoothed TC Combined - Map



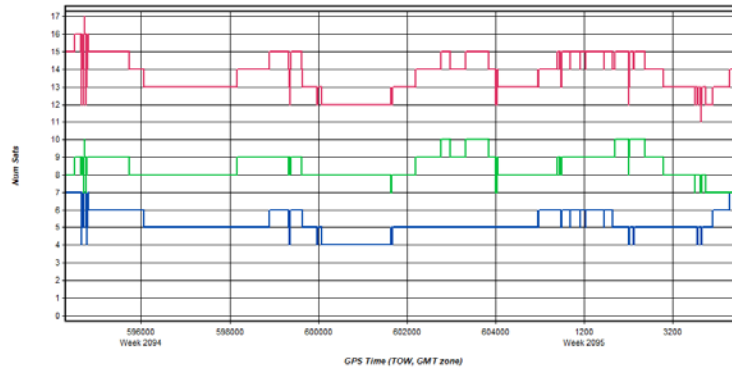
Process: HicksDome\_20200229\_210131 by Unknown on 3/6/2020 at 09:58:58

Figure 2: HicksDome\_20200229\_210131 [Smoothed TC Combined] - Quality Factor Plot



Process: HicksDome\_20200229\_210131 by Unknown on 3/6/2020 at 09:58:58

Figure 3: HicksDome\_20200229\_210131 [Smoothed TC Combined] - Number of Satellites Line Plot





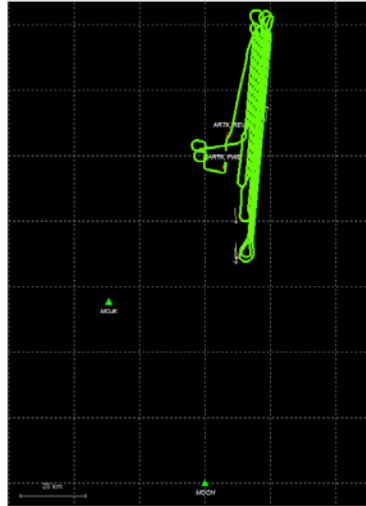
3/6/2020

Inertial Explorer Project HicksDome\_20200301\_020914

### Output Results for HicksDome\_20200301\_020914

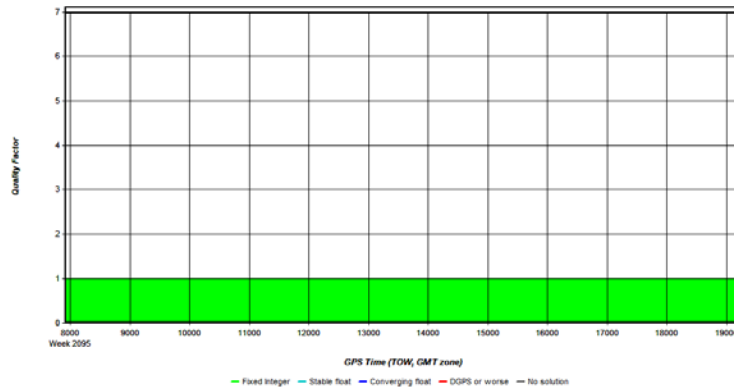
Inertial Explorer Version 8.80.2503  
 03/06/2020

Figure 1: Smoothed TC Combined - Map



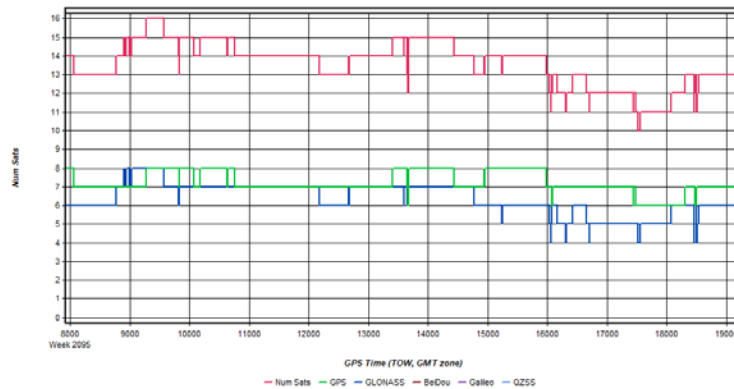
Process	HicksDome_20200301_020914	by Unknown	on 3/6/2020	at 11:58:03
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Figure 2: HicksDome\_20200301\_020914 [Smoothed TC Combined] - Quality Factor Plot



Process	HicksDome_20200301_020914	by Unknown	on 3/6/2020	at 11:58:03
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Figure 3: HicksDome\_20200301\_020914 [Smoothed TC Combined] - Number of Satellites Line Plot

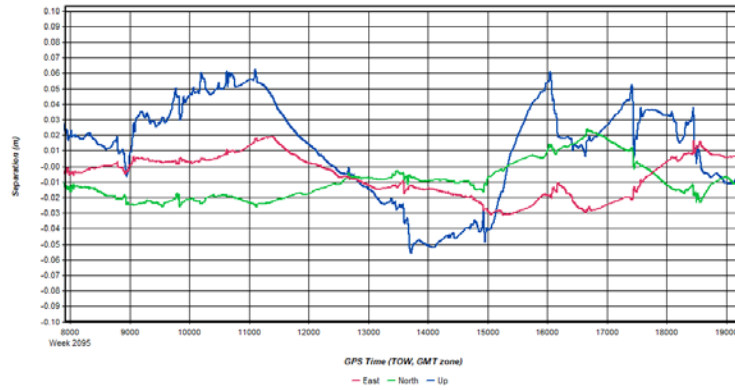


3/6/2020

Inertial Explorer Project HicksDome\_20200301\_020914

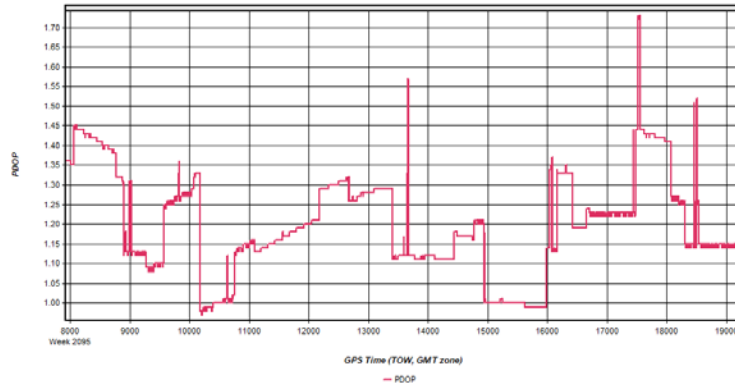
Process HicksDome\_20200301\_020914 by Unknown on 3/6/2020 at 11:58:03

Figure 4: HicksDome\_20200301\_020914 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200301\_020914 by Unknown on 3/6/2020 at 11:58:03

Figure 5: HicksDome\_20200301\_020914 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200301\_020914 by Unknown on 3/6/2020 at 11:58:03



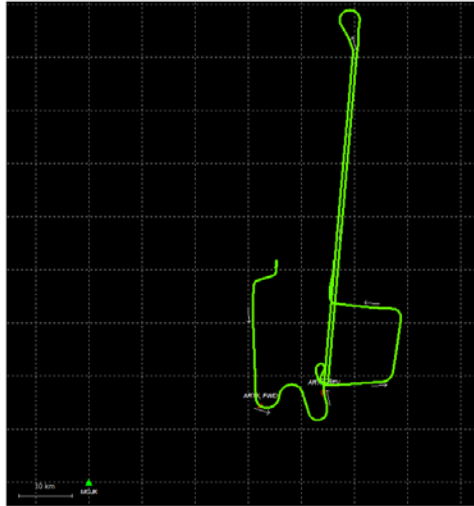
3/6/2020

Inertial Explorer Project HicksDome\_20200301\_061551

### Output Results for HicksDome\_20200301\_061551

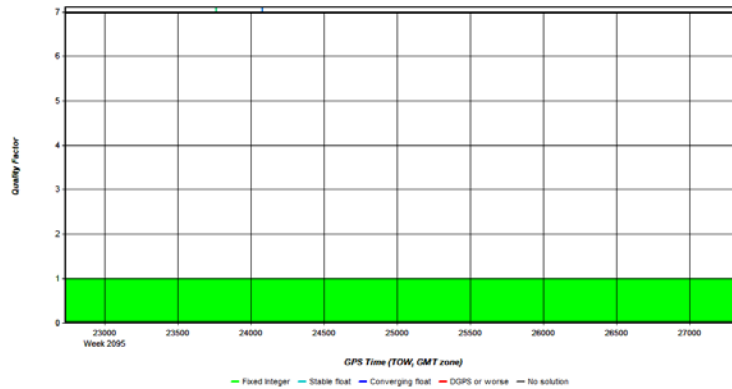
Inertial Explorer Version 8.80.2503  
 03/06/2020

Figure 1: Smoothed TC Combined - Map



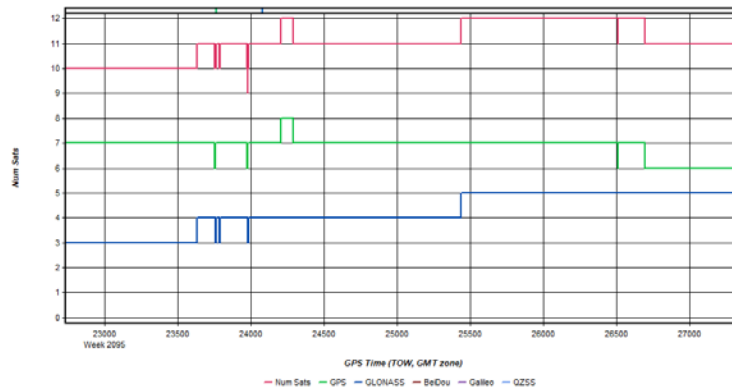
Process	HicksDome_20200301_061551	by Unknown	on 3/6/2020	at 14:59:55
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Figure 2: HicksDome\_20200301\_061551 [Smoothed TC Combined] - Quality Factor Plot



Process	HicksDome_20200301_061551	by Unknown	on 3/6/2020	at 14:59:55
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Figure 3: HicksDome\_20200301\_061551 [Smoothed TC Combined] - Number of Satellites Line Plot

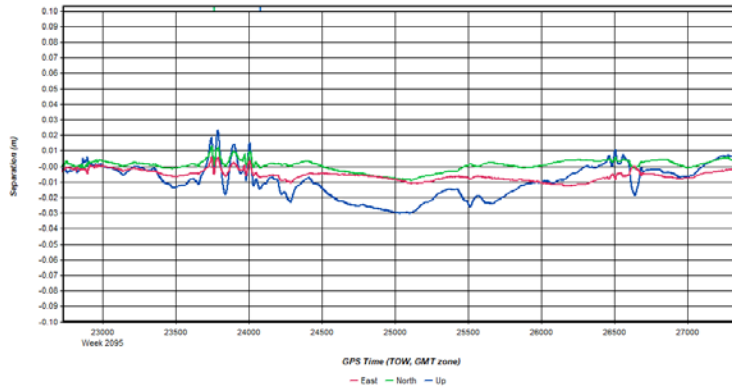


3/6/2020

Inertial Explorer Project HicksDome\_20200301\_061551

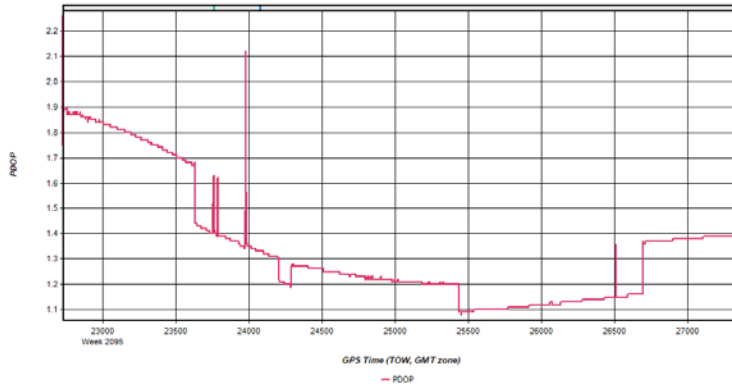
Process HicksDome\_20200301\_061551 by Unknown on 3/6/2020 at 14:59:55

Figure 4: HicksDome\_20200301\_061551 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200301\_061551 by Unknown on 3/6/2020 at 14:59:55

Figure 5: HicksDome\_20200301\_061551 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200301\_061551 by Unknown on 3/6/2020 at 14:59:55

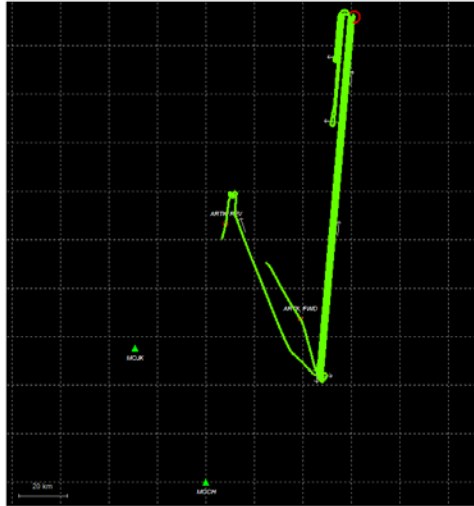
3/7/2020

Inertial Explorer Project HicksDome\_20200301\_093540

### Output Results for HicksDome\_20200301\_093540

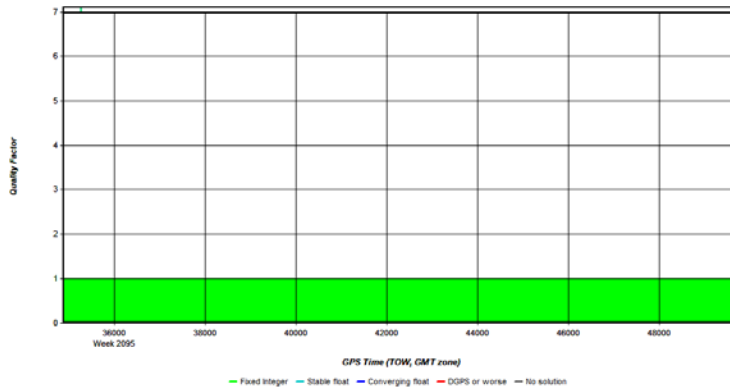
Inertial Explorer Version 8.80.2503  
03/07/2020

Figure 1: Smoothed TC Combined - Map



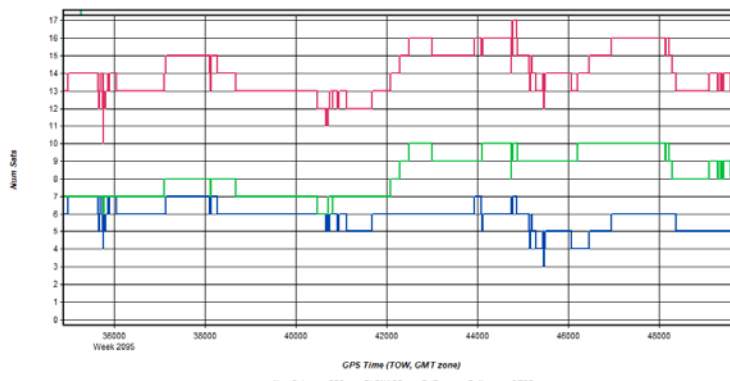
Process: HicksDome\_20200301\_093540 by Unknown on 3/6/2020 at 21:53:13

Figure 2: HicksDome\_20200301\_093540 [Smoothed TC Combined] - Quality Factor Plot



Process: HicksDome\_20200301\_093540 by Unknown on 3/6/2020 at 21:53:13

Figure 3: HicksDome\_20200301\_093540 [Smoothed TC Combined] - Number of Satellites Line Plot





3/7/2020

Inertial Explorer Project HicksDome\_20200301\_142548

**Output Results for HicksDome\_20200301\_142548**

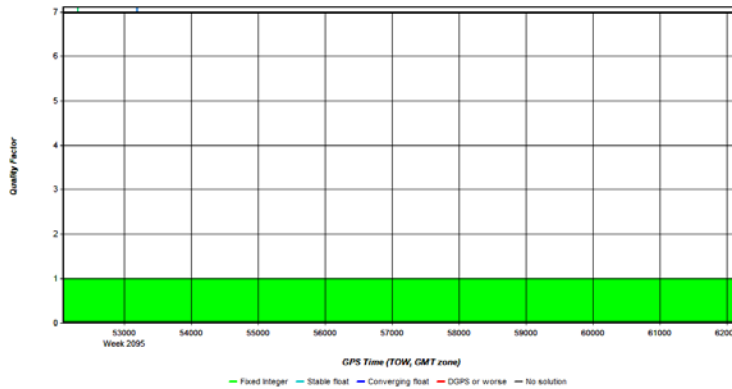
Inertial Explorer Version 8.80.2503  
 03/07/2020

**Figure 1: Smoothed TC Combined - Map**



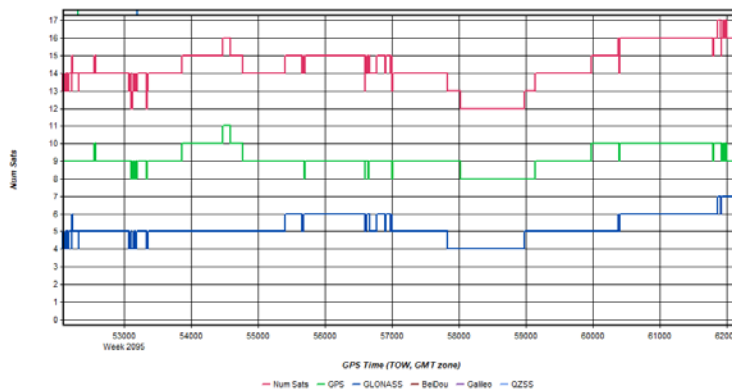
Process: HicksDome\_20200301\_142548 by Unknown on 3/7/2020 at 15:49:31

**Figure 2: HicksDome\_20200301\_142548 [Smoothed TC Combined] - Quality Factor Plot**



Process: HicksDome\_20200301\_142548 by Unknown on 3/7/2020 at 15:49:31

**Figure 3: HicksDome\_20200301\_142548 [Smoothed TC Combined] - Number of Satellites Line Plot**





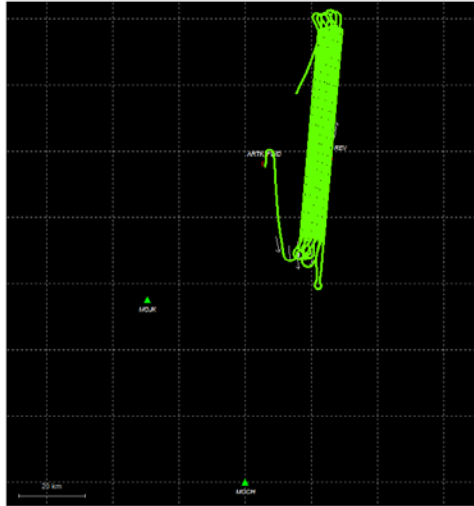
3/9/2020

Inertial Explorer Project HicksDome\_20200305\_010608

**Output Results for HicksDome\_20200305\_010608**

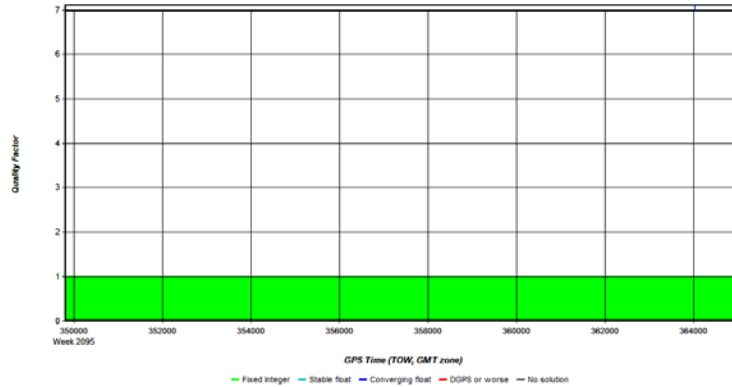
Inertial Explorer Version 8.80.2503  
 03/09/2020

**Figure 1: Smoothed TC Combined - Map**



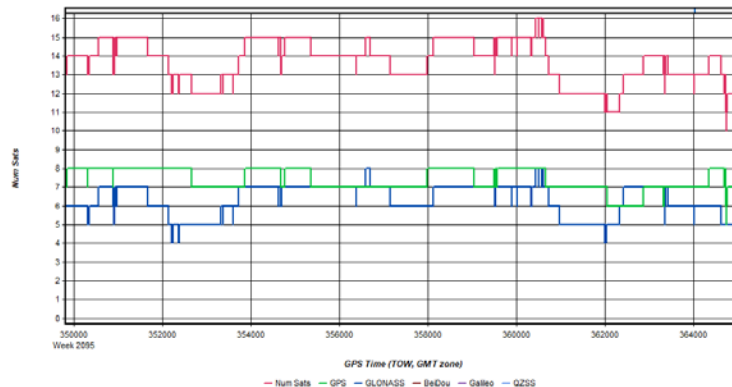
Process: HicksDome\_20200305\_010608 by Unknown on 3/9/2020 at 09:51:53

**Figure 2: HicksDome\_20200305\_010608 [Smoothed TC Combined] - Quality Factor Plot**



Process: HicksDome\_20200305\_010608 by Unknown on 3/9/2020 at 09:51:53

**Figure 3: HicksDome\_20200305\_010608 [Smoothed TC Combined] - Number of Satellites Line Plot**







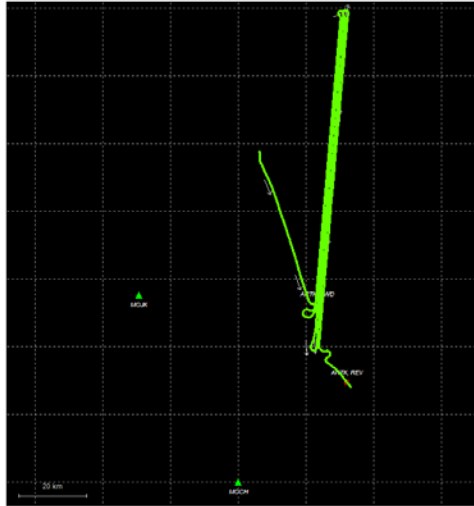
3/9/2020

Inertial Explorer Project HicksDome\_20200305\_094110

### Output Results for HicksDome\_20200305\_094110

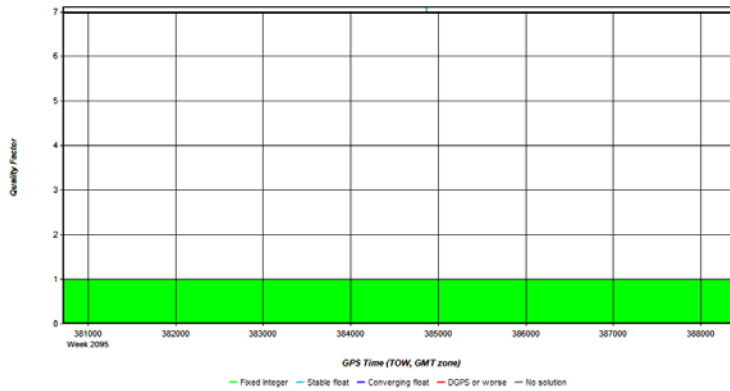
Inertial Explorer Version 8.80.2503  
03/09/2020

Figure 1: Smoothed TC Combined - Map



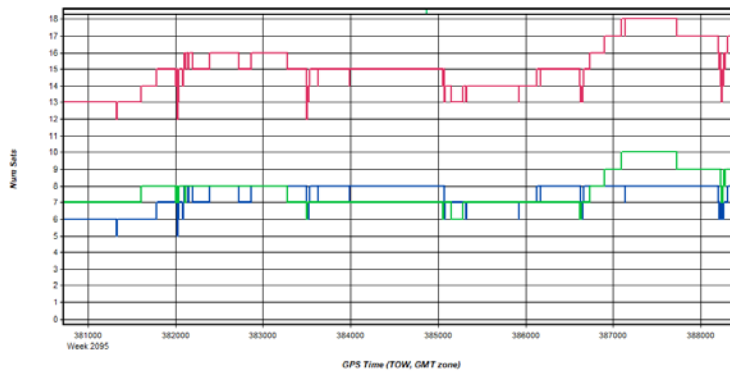
Process: HicksDome\_20200305\_094110 by Unknowns on 3/9/2020 at 12:31:18

Figure 2: HicksDome\_20200305\_094110 [Smoothed TC Combined] - Quality Factor Plot



Process: HicksDome\_20200305\_094110 by Unknowns on 3/9/2020 at 12:31:18

Figure 3: HicksDome\_20200305\_094110 [Smoothed TC Combined] - Number of Satellites Line Plot

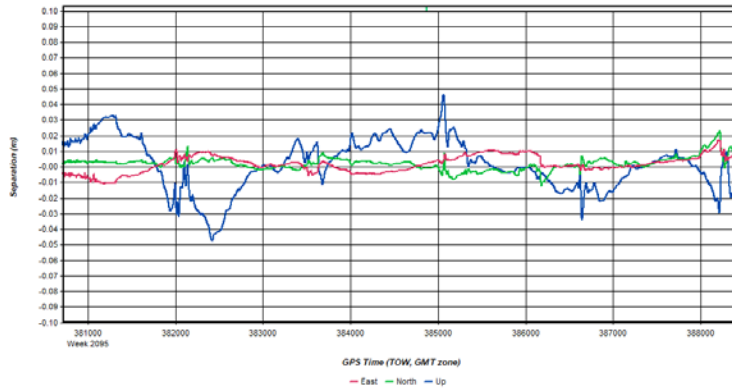


3/9/2020

Inertial Explorer Project HicksDome\_20200305\_094110

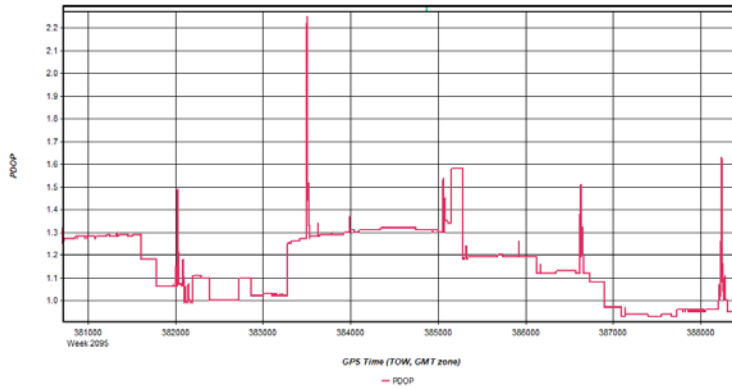
Process HicksDome\_20200305\_094110 by Unknown on 3/9/2020 at 12:31:18

Figure 4: HicksDome\_20200305\_094110 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200305\_094110 by Unknown on 3/9/2020 at 12:31:18

Figure 5: HicksDome\_20200305\_094110 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200305\_094110 by Unknown on 3/9/2020 at 12:31:18

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Inertial Explorer Project HicksDome\_20200305\_144800

**Output Results for HicksDome\_20200305\_144800**

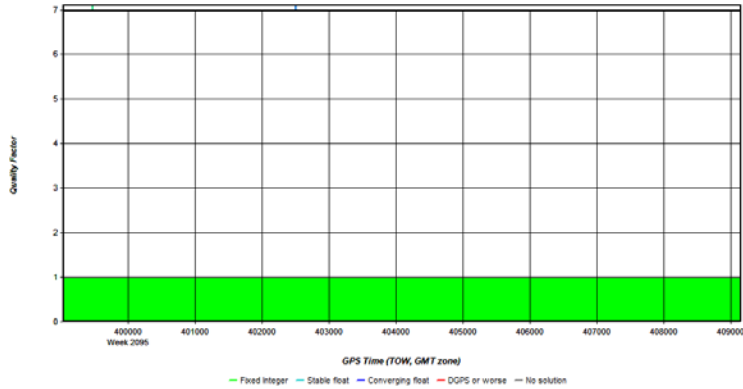
Inertial Explorer Version 8.80.2503  
 03/09/2020

**Figure 1: Smoothed TC Combined - Map**



Process: HicksDome\_20200305\_144800 by Unknowns on 3/9/2020 at 14:09:46

**Figure 2: HicksDome\_20200305\_144800 [Smoothed TC Combined] - Quality Factor Plot**



Process: HicksDome\_20200305\_144800 by Unknowns on 3/9/2020 at 14:09:46

**Figure 3: HicksDome\_20200305\_144800 [Smoothed TC Combined] - Number of Satellites Line Plot**



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Inertial Explorer Project HicksDome\_20200305\_144800

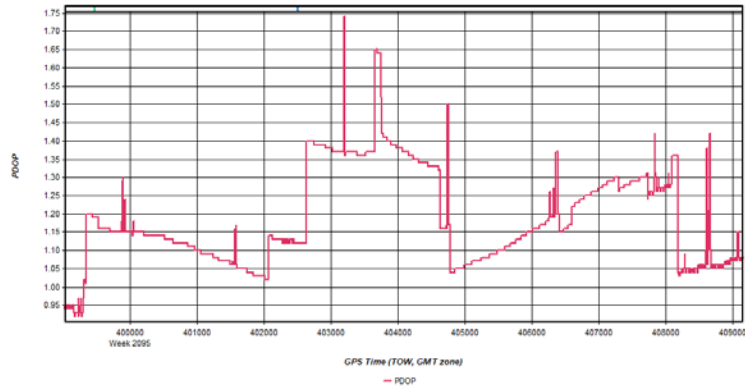
Process HicksDome\_20200305\_144800 by Unknown on 3/9/2020 at 14:09:46

Figure 4: HicksDome\_20200305\_144800 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200305\_144800 by Unknown on 3/9/2020 at 14:09:46

Figure 5: HicksDome\_20200305\_144800 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200305\_144800 by Unknown on 3/9/2020 at 14:09:46

3/9/2020

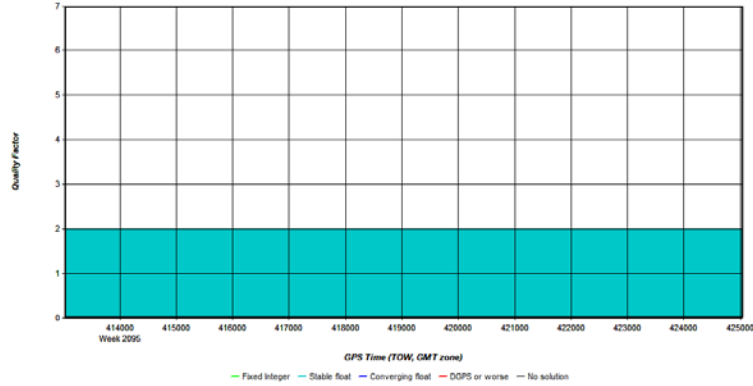
Inertial Explorer Project HicksDome\_20200305\_184142

### Output Results for HicksDome\_20200305\_184142

Inertial Explorer Version 8.80.2503  
 03/09/2020

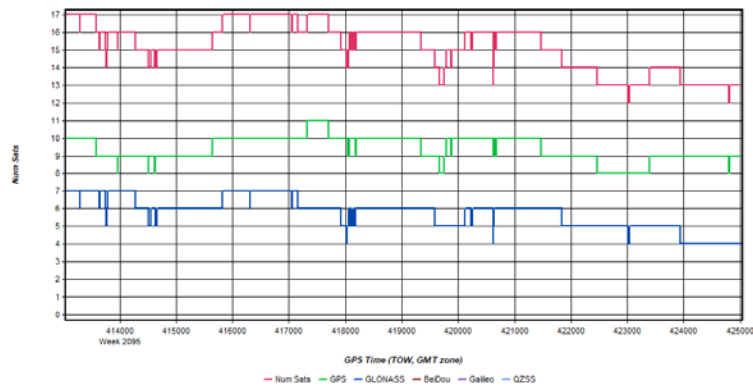
Object Smoothed TC Combined - Map failed-NULL bitmap handle

Figure 1: HicksDome\_20200305\_184142 [Smoothed TC Combined] - Quality Factor Plot



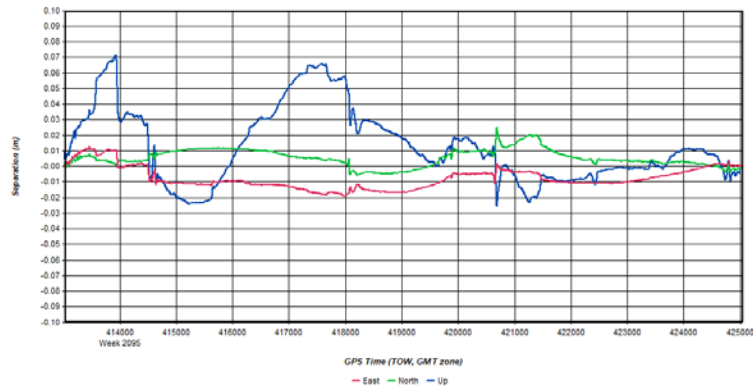
Process	HicksDome_20200305_184142	by Unknown	on 3/9/2020	at 17:18:17
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Figure 2: HicksDome\_20200305\_184142 [Smoothed TC Combined] - Number of Satellites Line Plot



Process	HicksDome_20200305_184142	by Unknown	on 3/9/2020	at 17:18:17
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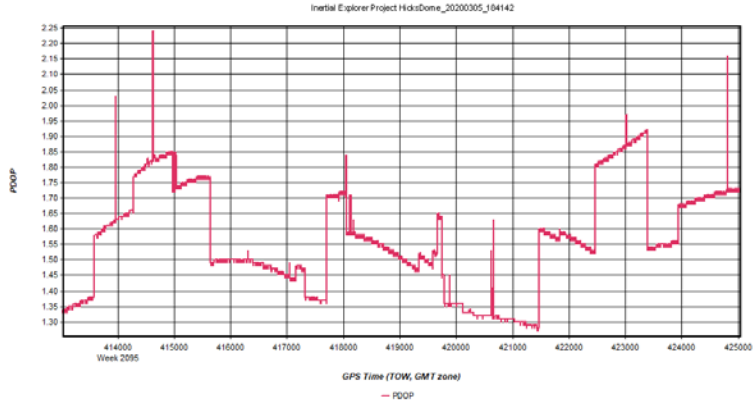
Figure 3: HicksDome\_20200305\_184142 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200305_184142	by Unknown	on 3/9/2020	at 17:18:17
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Figure 4: HicksDome\_20200305\_184142 [Smoothed TC Combined] - PDOP Plot

3/9/2020



Process	HicksDome_20200305_184142	by Unknown	on 3/9/2020	at 17:18:17
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3/10/2020

Inertial Explorer Project HicksDome\_20200305\_225309

**Output Results for HicksDome\_20200305\_225309**

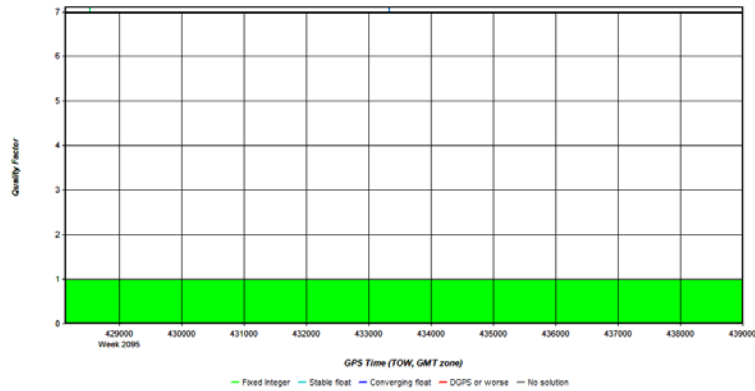
Inertial Explorer Version 8.80.2503  
 03/10/2020

**Figure 1: Smoothed TC Combined - Map**



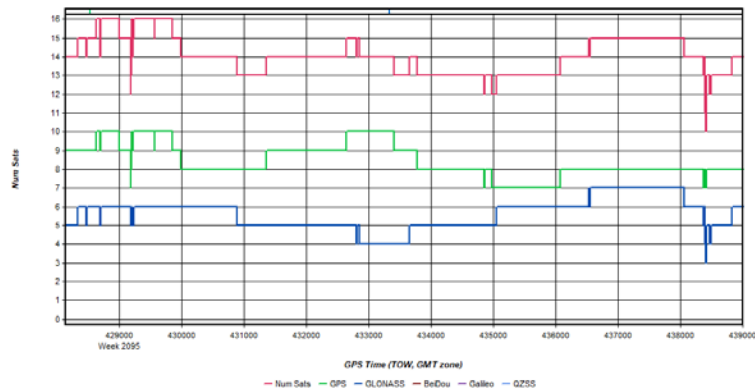
Process: HicksDome\_20200305\_225309    by Unknown    on 3/10/2020    at 08:53:20

**Figure 2: HicksDome\_20200305\_225309 [Smoothed TC Combined] - Quality Factor Plot**



Process: HicksDome\_20200305\_225309    by Unknown    on 3/10/2020    at 08:53:20

**Figure 3: HicksDome\_20200305\_225309 [Smoothed TC Combined] - Number of Satellites Line Plot**

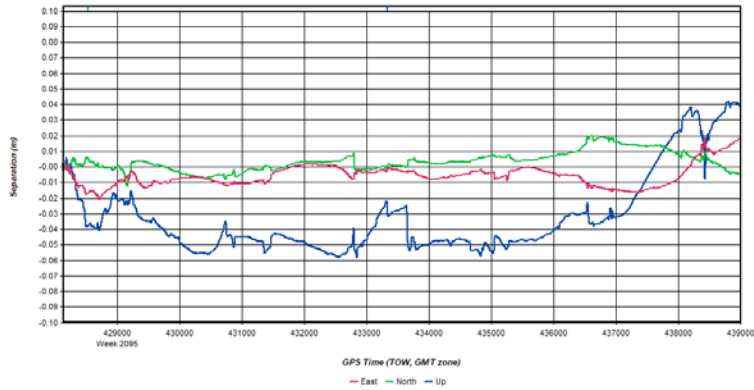


3/10/2020

Inertial Explorer Project HicksDome\_20200305\_225309

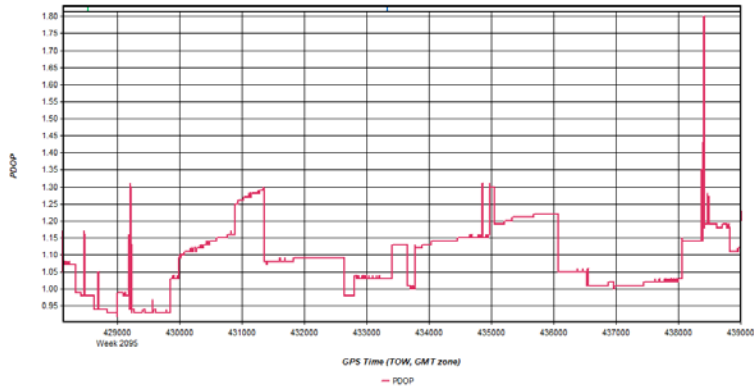
Process HicksDome\_20200305\_225309 by Unknown on 3/10/2020 at 08:53:20

Figure 4: HicksDome\_20200305\_225309 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200305\_225309 by Unknown on 3/10/2020 at 08:53:20

Figure 5: HicksDome\_20200305\_225309 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200305\_225309 by Unknown on 3/10/2020 at 08:53:20







3/10/2020

Inertial Explorer Project HicksDome\_20200306\_063204

### Output Results for HicksDome\_20200306\_063204

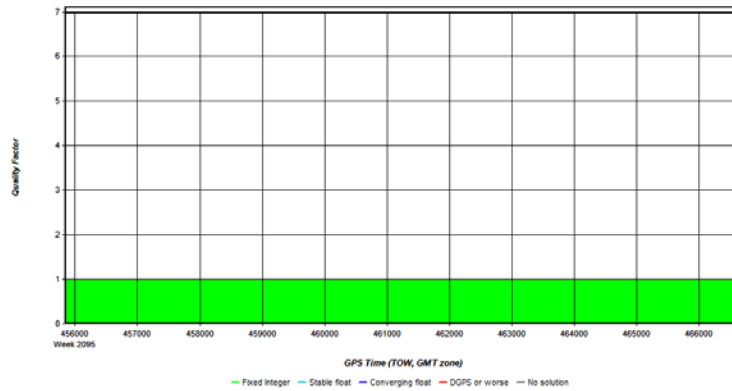
Inertial Explorer Version 8.80.2503  
 03/10/2020

Figure 1: Smoothed TC Combined - Map



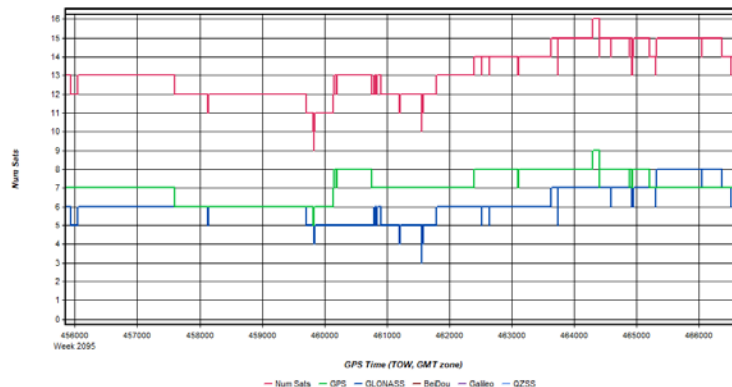
Process: HicksDome\_20200306\_063204    by Unknown    on 3/10/2020    at 13:08:01

Figure 2: HicksDome\_20200306\_063204 [Smoothed TC Combined] - Quality Factor Plot



Process: HicksDome\_20200306\_063204    by Unknown    on 3/10/2020    at 13:08:01

Figure 3: HicksDome\_20200306\_063204 [Smoothed TC Combined] - Number of Satellites Line Plot

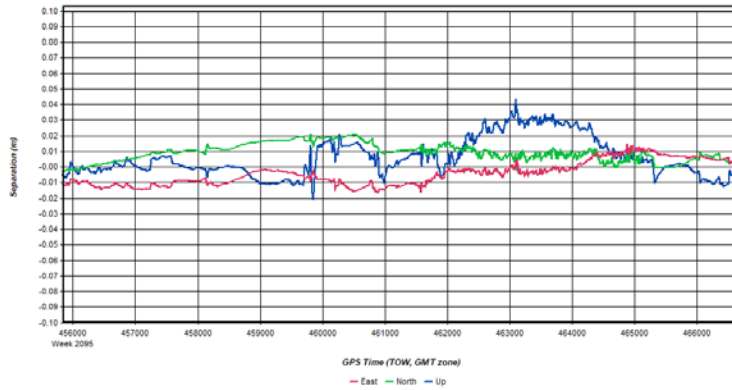


3/10/2020

Inertial Explorer Project HicksDome\_20200306\_063204

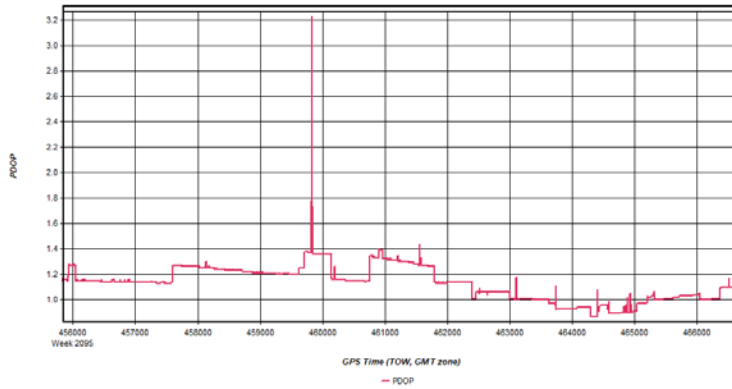
Process HicksDome\_20200306\_063204 by Unknown on 3/10/2020 at 13:08:01

Figure 4: HicksDome\_20200306\_063204 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200306\_063204 by Unknown on 3/10/2020 at 13:08:01

Figure 5: HicksDome\_20200306\_063204 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200306\_063204 by Unknown on 3/10/2020 at 13:08:01

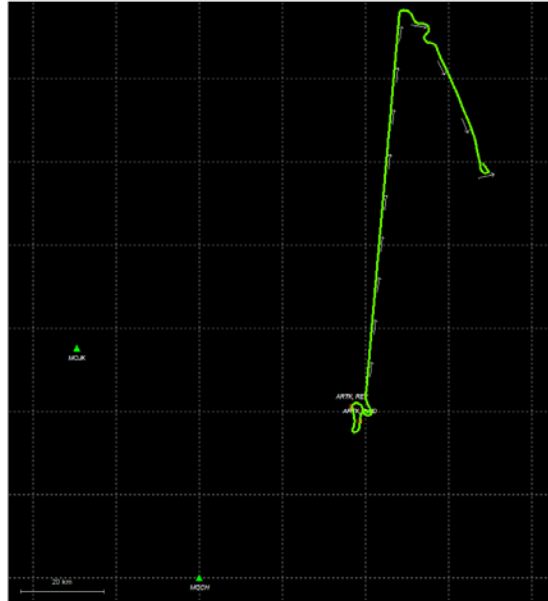
3/10/2020

Inertial Explorer Project HicksDome\_20200306\_063204pt2

### Output Results for HicksDome\_20200306\_063204pt2

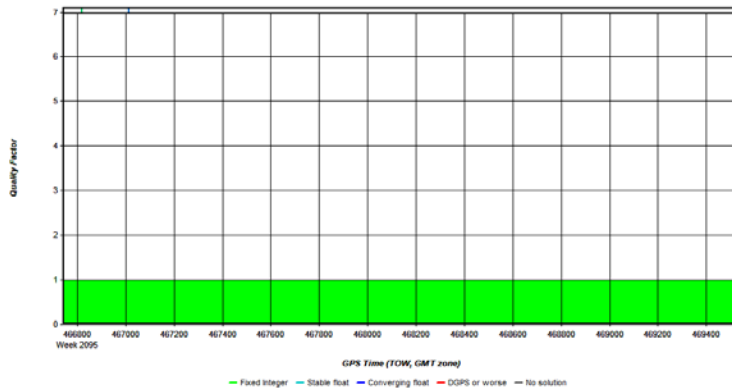
Inertial Explorer Version 8.80.2503  
03/10/2020

Figure 1: Smoothed TC Combined - Map



Process HicksDome\_20200306\_063204pt2 by Unknown on 3/10/2020 at 13:04:47

Figure 2: HicksDome\_20200306\_063204pt2 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200306\_063204pt2 by Unknown on 3/10/2020 at 13:04:47

Figure 3: HicksDome\_20200306\_063204pt2 [Smoothed TC Combined] - Number of Satellites Line Plot

3/10/2020

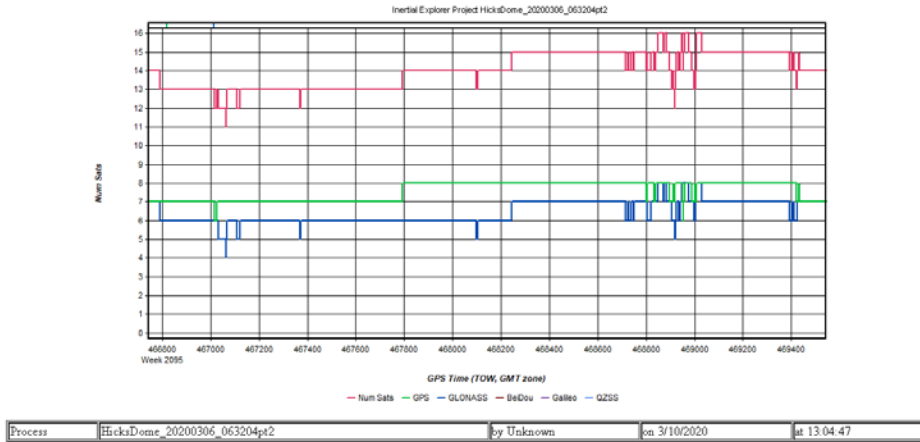


Figure 4: HicksDome\_20200306\_063204pt2 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

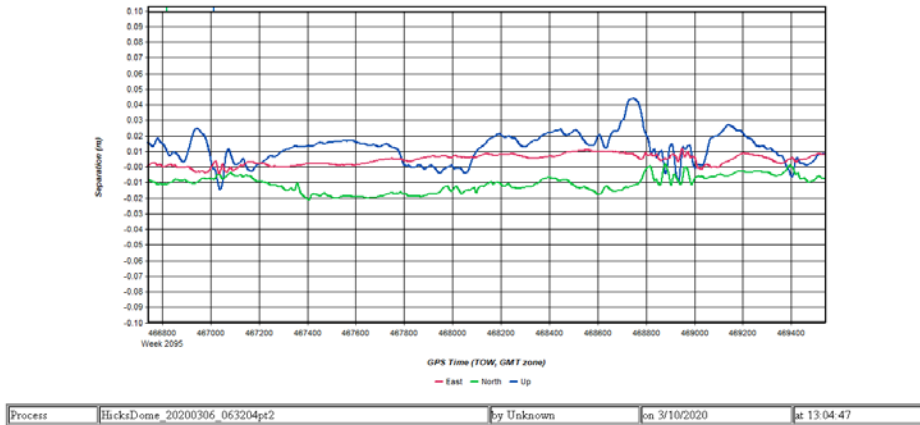
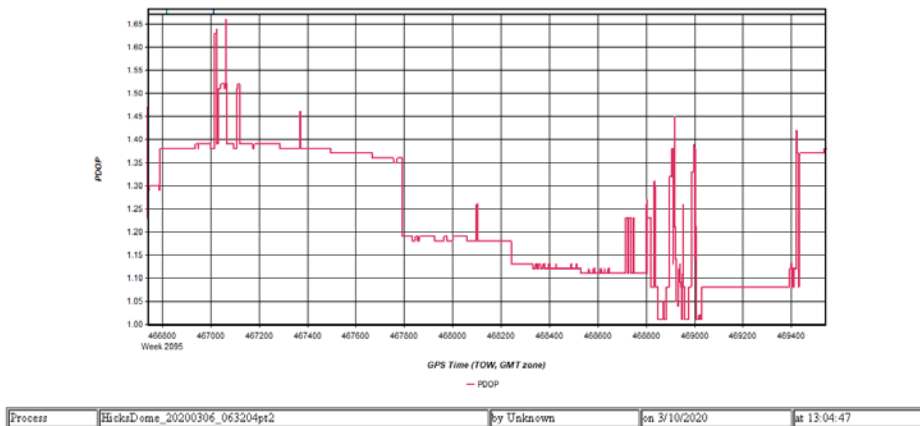


Figure 5: HicksDome\_20200306\_063204pt2 [Smoothed TC Combined] - PDOP Plot



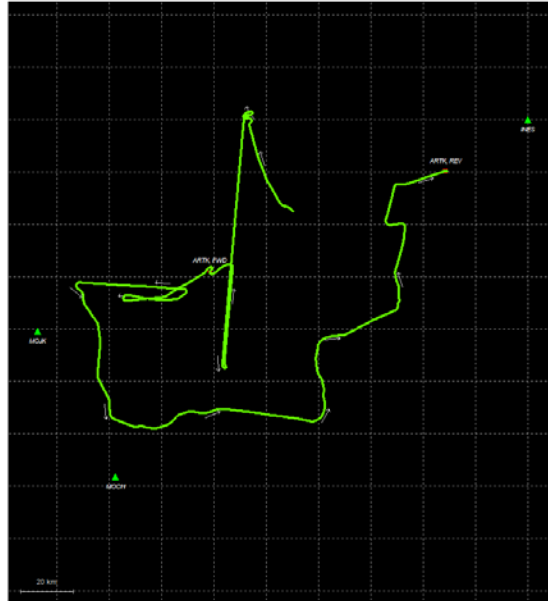
3/10/2020

Inertial Explorer Project 20200306\_113358

**Output Results for 20200306\_113358**

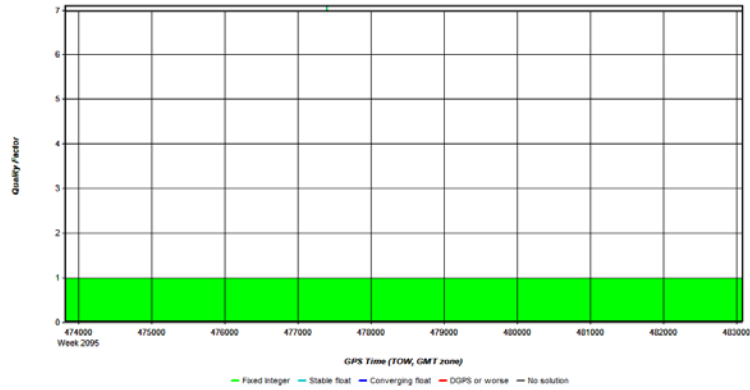
Inertial Explorer Version 8.80.2503  
 03/10/2020

**Figure 1: Smoothed TC Combined - Map**



Process	20200306_113358	by Unknown	on 3/10/2020	at 18:15:11
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**Figure 2: 20200306\_113358 [Smoothed TC Combined] - Quality Factor Plot**



Process	20200306_113358	by Unknown	on 3/10/2020	at 18:15:11
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**Figure 3: 20200306\_113358 [Smoothed TC Combined] - Number of Satellites Line Plot**

3/10/2020

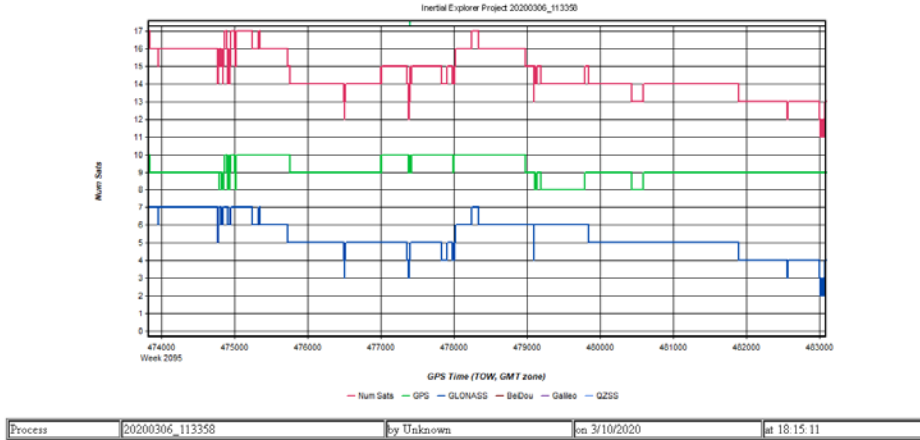


Figure 4: 20200306\_113358 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

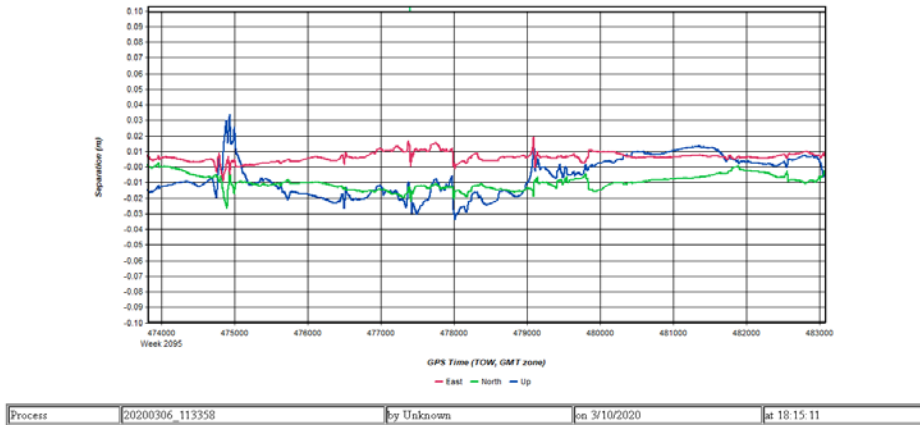
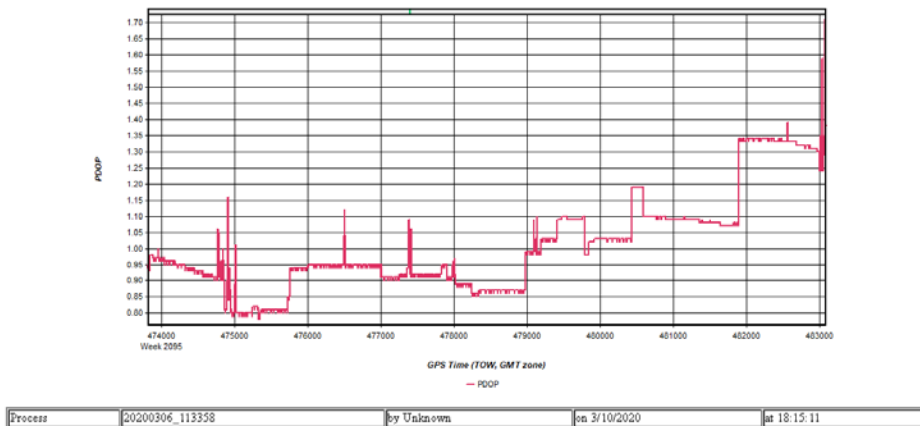


Figure 5: 20200306\_113358 [Smoothed TC Combined] - PDOP Plot





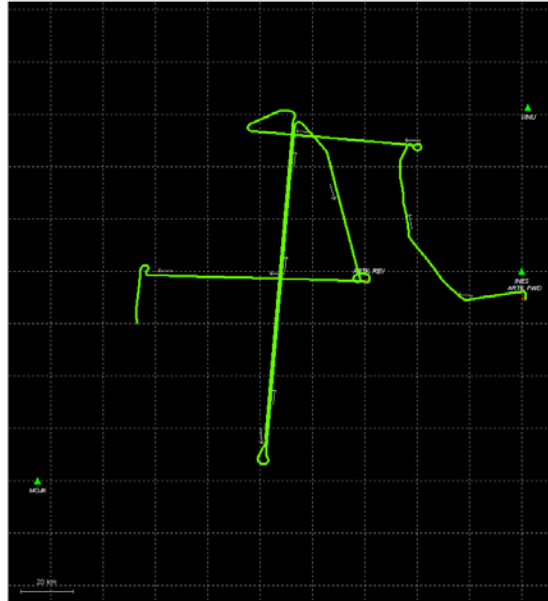
3/11/2020

Inertial Explorer Project HicksDome\_20200306\_214702

### Output Results for HicksDome\_20200306\_214702

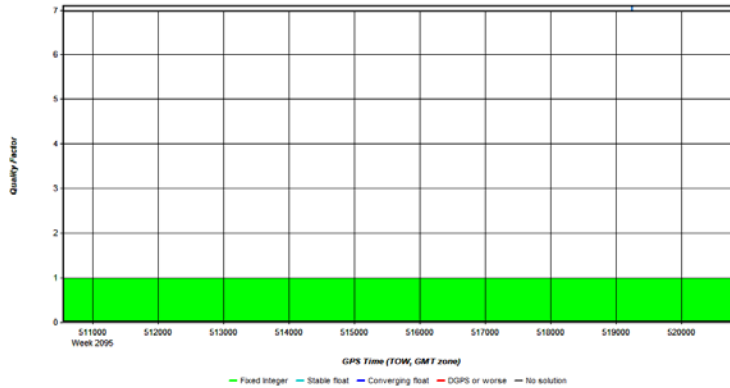
Inertial Explorer Version 8.80.2503  
03/11/2020

Figure 1: Smoothed TC Combined - Map



Process HicksDome\_20200306\_214702 by Unknown on 3/11/2020 at 07:15:49

Figure 2: HicksDome\_20200306\_214702 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200306\_214702 by Unknown on 3/11/2020 at 07:15:49

Figure 3: HicksDome\_20200306\_214702 [Smoothed TC Combined] - Number of Satellites Line Plot

3/11/2020

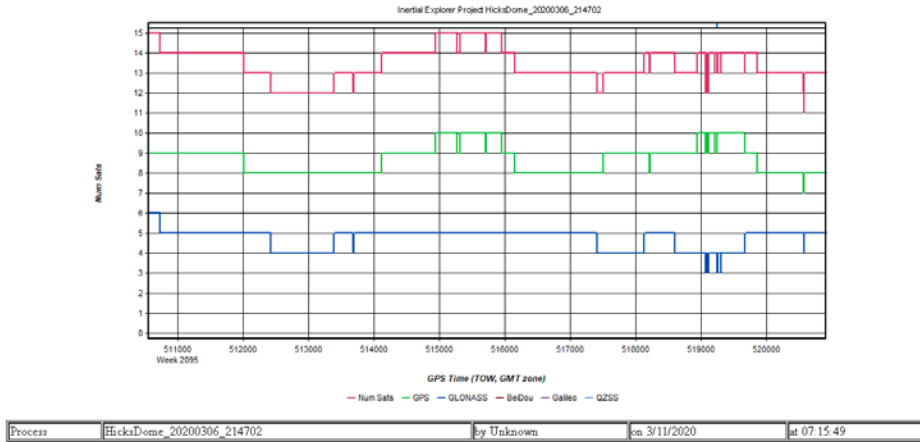


Figure 4: HicksDome\_20200306\_214702 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

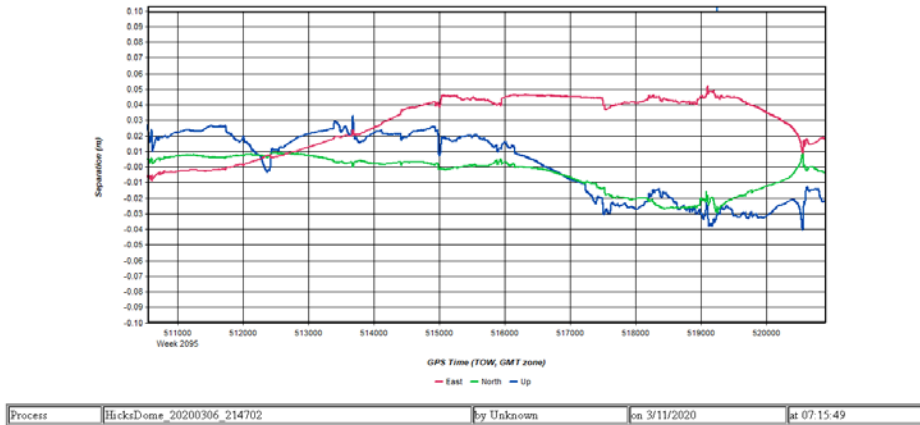
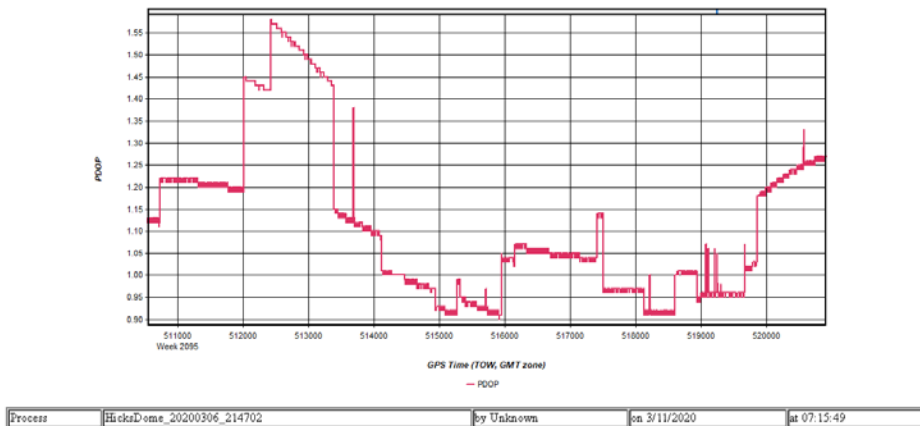


Figure 5: HicksDome\_20200306\_214702 [Smoothed TC Combined] - PDOP Plot

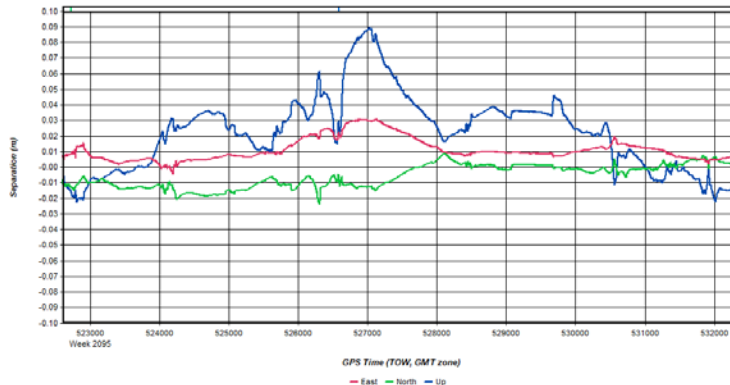




3/11/2020

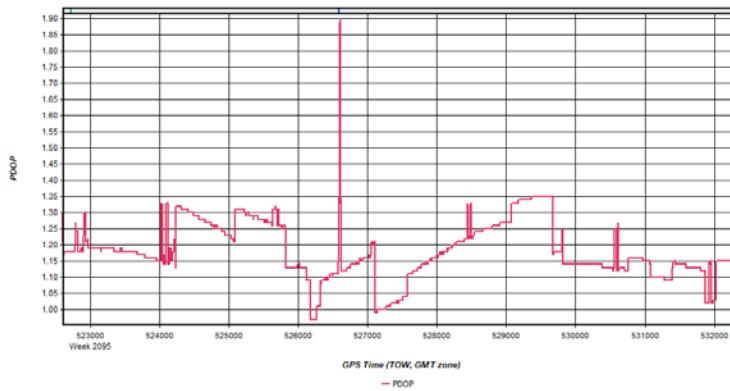
Inertial Explorer Project HicksDome\_20200307\_010807

Figure 4: HicksDome\_20200307\_010807 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process HicksDome\_20200307\_010807 by Unknown on 3/11/2020 at 09:54:11

Figure 5: HicksDome\_20200307\_010807 [Smoothed TC Combined] - PDOP Plot



Process HicksDome\_20200307\_010807 by Unknown on 3/11/2020 at 09:54:11

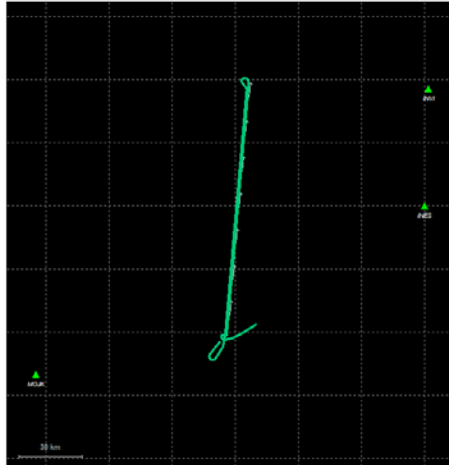
3/11/2020

Inertial Explorer Project HicksDome\_20200307\_010807pt2

### Output Results for HicksDome\_20200307\_010807pt2

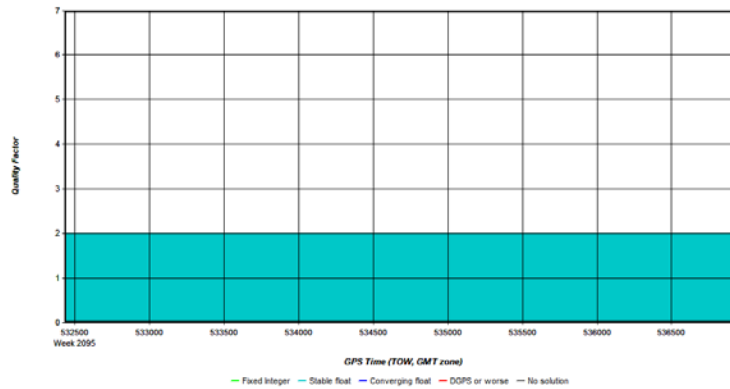
Inertial Explorer Version 8.80.2503  
 03/11/2020

Figure 1: Smoothed TC Combined - Map



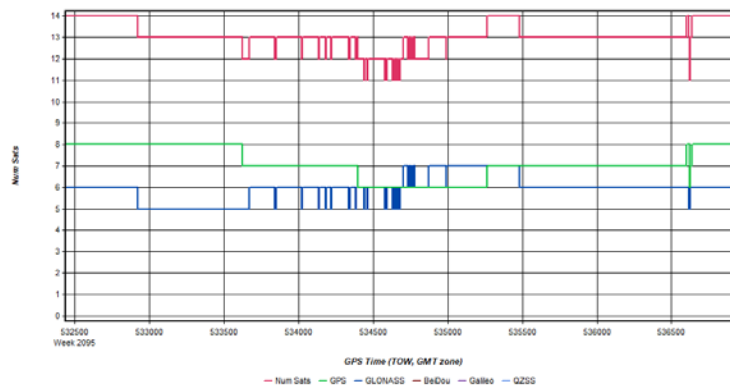
Process HicksDome\_20200307\_010807pt2 by Unknown on 3/11/2020 at 09:37:55

Figure 2: HicksDome\_20200307\_010807pt2 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200307\_010807pt2 by Unknown on 3/11/2020 at 09:37:55

Figure 3: HicksDome\_20200307\_010807pt2 [Smoothed TC Combined] - Number of Satellites Line Plot

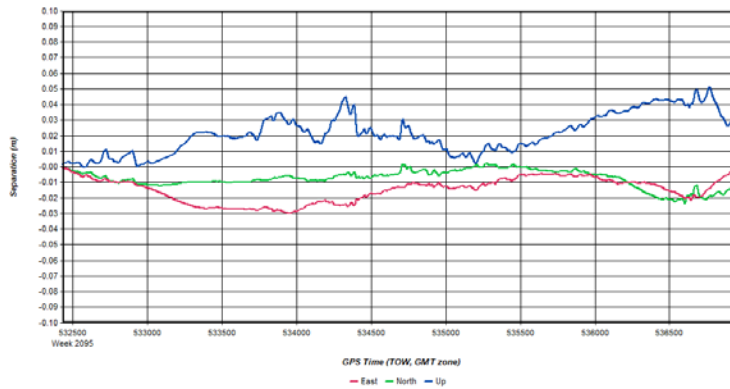


Process HicksDome\_20200307\_010807pt2 by Unknown on 3/11/2020 at 09:37:55

3/11/2020

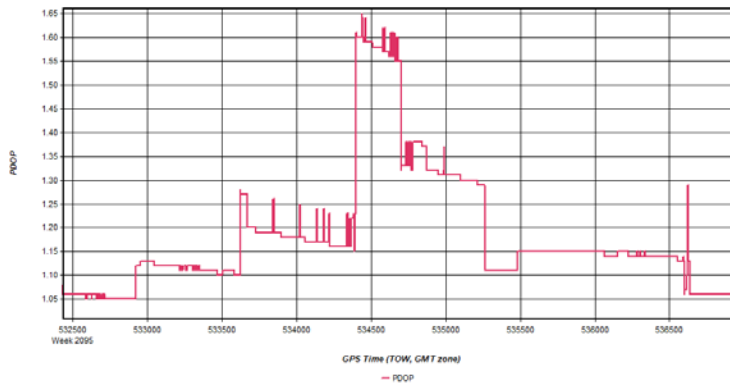
Inetrial Explorer Project HicksDome\_20200307\_010807pt2

Figure 4: HicksDome\_20200307\_010807pt2 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200307_010807pt2	by Unknown	on 3/11/2020	at 09:37:55
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Figure 5: HicksDome\_20200307\_010807pt2 [Smoothed TC Combined] - PDOP Plot



Process	HicksDome_20200307_010807pt2	by Unknown	on 3/11/2020	at 09:37:55
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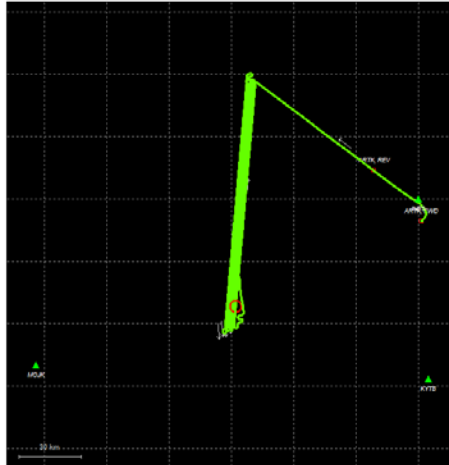
3/11/2020

Inertial Explorer Project HicksDome\_20200307\_072436

### Output Results for HicksDome\_20200307\_072436

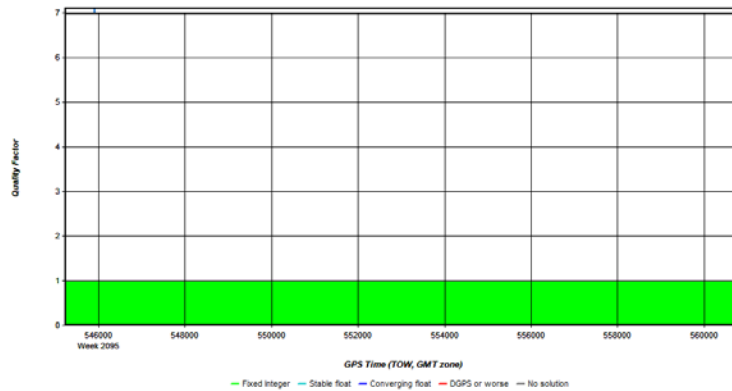
Inertial Explorer Version 8.80.2503  
03/11/2020

Figure 1: Smoothed TC Combined - Map



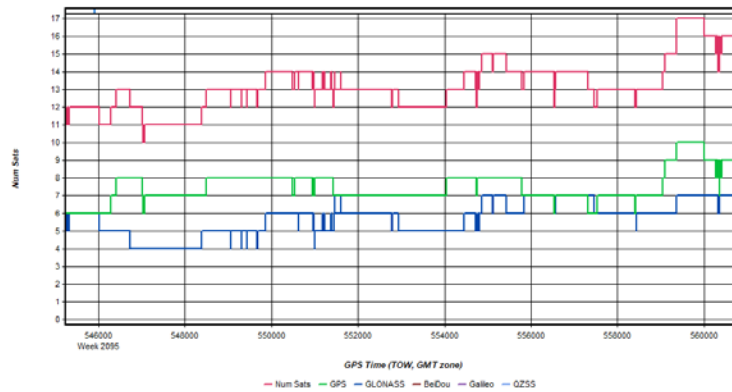
Process HicksDome\_20200307\_072436 by Unknown on 3/11/2020 at 11:01:43

Figure 2: HicksDome\_20200307\_072436 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200307\_072436 by Unknown on 3/11/2020 at 11:01:43

Figure 3: HicksDome\_20200307\_072436 [Smoothed TC Combined] - Number of Satellites Line Plot

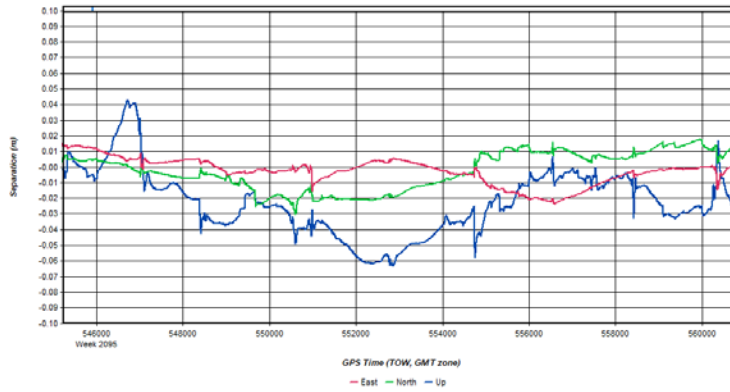


Process HicksDome\_20200307\_072436 by Unknown on 3/11/2020 at 11:01:43

3/11/2020

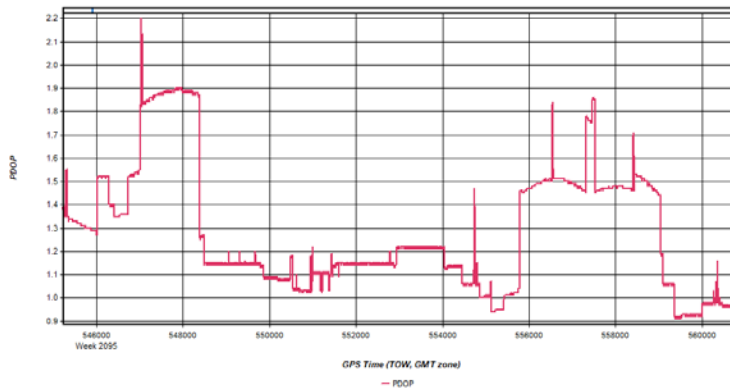
Inertial Explorer Project HicksDome\_20200307\_072436

Figure 4: HicksDome\_20200307\_072436 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200307_072436	by Unknown	on 3/11/2020	at 11:01:43
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Figure 5: HicksDome\_20200307\_072436 [Smoothed TC Combined] - PDOP Plot



Process	HicksDome_20200307_072436	by Unknown	on 3/11/2020	at 11:01:43
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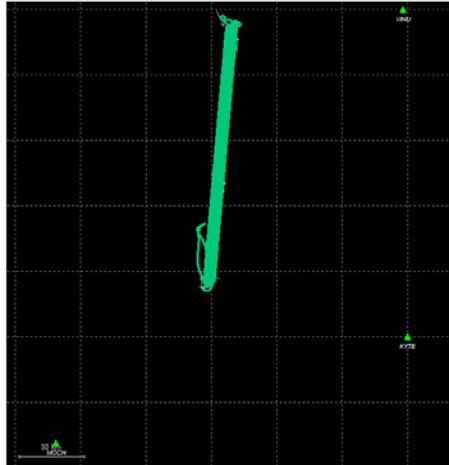
3/11/2020

Inertial Explorer Project HicksDome\_20200307\_120639

### Output Results for HicksDome\_20200307\_120639

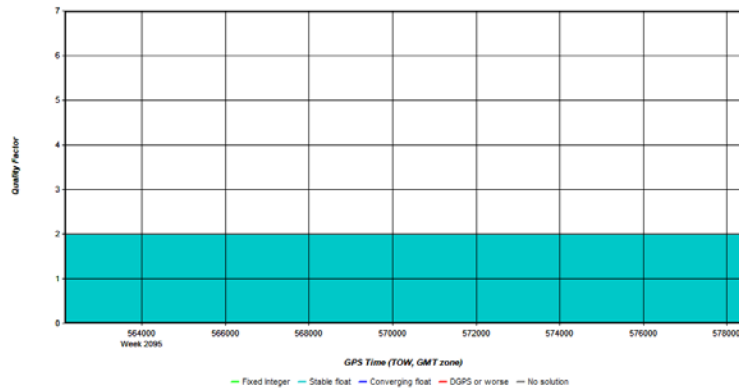
Inertial Explorer Version 8.80.2503  
 03/11/2020

Figure 1: Smoothed TC Combined - Map



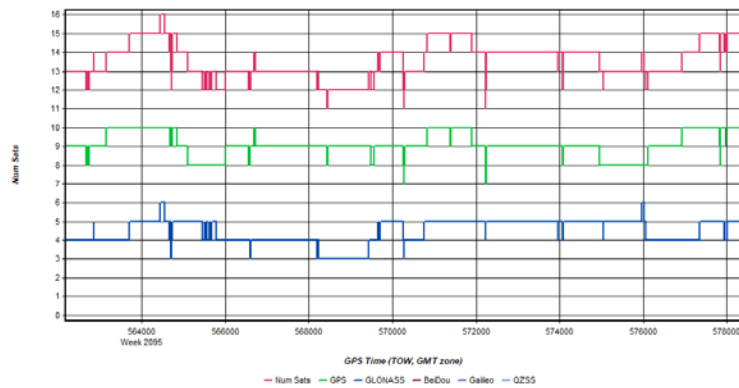
Process	HicksDome_20200307_120639	by Unknown	on 3/11/2020	at 14:05:46
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Figure 2: HicksDome\_20200307\_120639 [Smoothed TC Combined] - Quality Factor Plot



Process	HicksDome_20200307_120639	by Unknown	on 3/11/2020	at 14:05:46
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Figure 3: HicksDome\_20200307\_120639 [Smoothed TC Combined] - Number of Satellites Line Plot

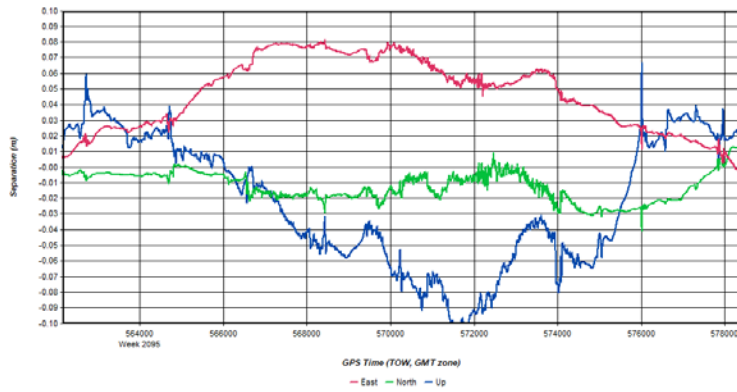


Process	HicksDome_20200307_120639	by Unknown	on 3/11/2020	at 14:05:46
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3/11/2020

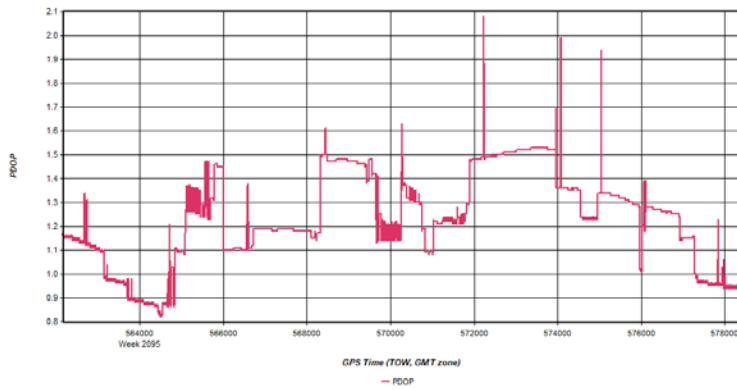
Inertial Explorer Project HicksDome\_20200307\_120639

Figure 4: HicksDome\_20200307\_120639 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200307_120639	by Unknown	on 3/11/2020	at 14:05:46
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Figure 5: HicksDome\_20200307\_120639 [Smoothed TC Combined] - PDOP Plot



Process	HicksDome_20200307_120639	by Unknown	on 3/11/2020	at 14:05:46
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3/11/2020

Inertial Explorer Project HicksDome\_20200307\_184217

### Output Results for HicksDome\_20200307\_184217

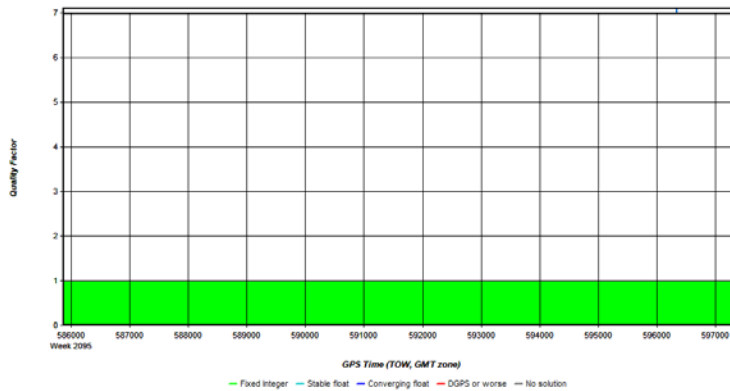
Inertial Explorer Version 8.80.2503  
 03/11/2020

Figure 1: Smoothed TC Combined - Map



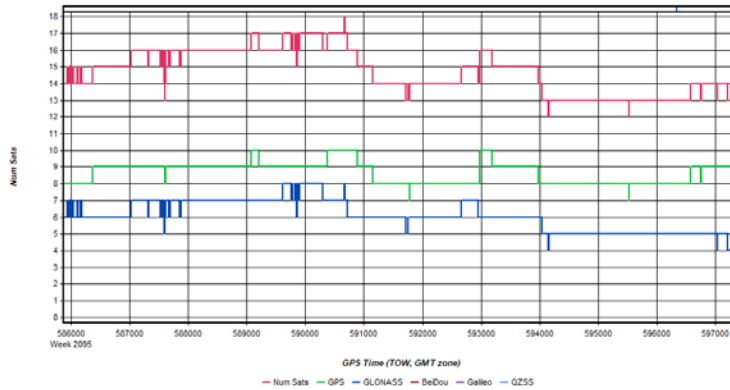
Process HicksDome\_20200307\_184217 by Unknown on 3/11/2020 at 14:39:24

Figure 2: HicksDome\_20200307\_184217 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200307\_184217 by Unknown on 3/11/2020 at 14:39:24

Figure 3: HicksDome\_20200307\_184217 [Smoothed TC Combined] - Number of Satellites Line Plot

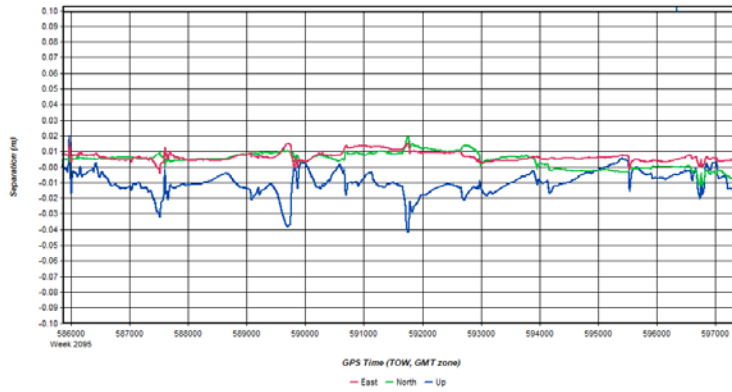


Process HicksDome\_20200307\_184217 by Unknown on 3/11/2020 at 14:39:24

3/11/2020

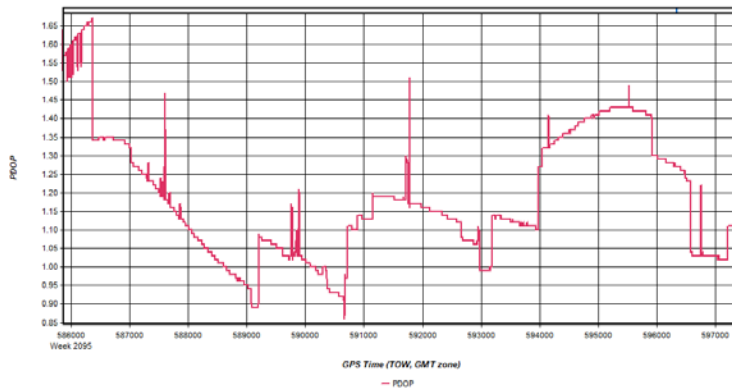
Inertial Explorer Project HicksDome\_20200307\_184217

Figure 4: HicksDome\_20200307\_184217 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200307_184217	by Unknown	on 3/11/2020	at 14:39:24
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Figure 5: HicksDome\_20200307\_184217 [Smoothed TC Combined] - PDOP Plot



Process	HicksDome_20200307_184217	by Unknown	on 3/11/2020	at 14:39:24
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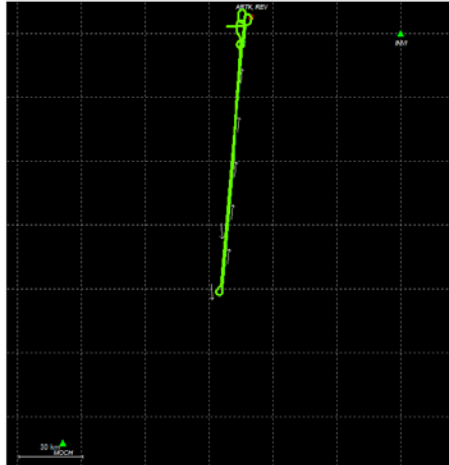
3/11/2020

Inertial Explorer Project HicksDome\_20200307\_225857

### Output Results for HicksDome\_20200307\_225857

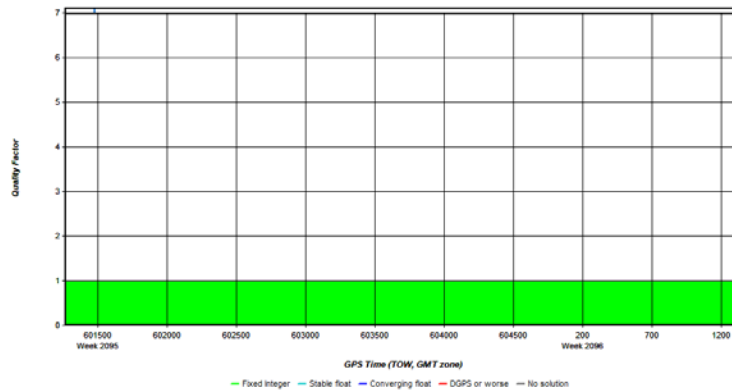
Inertial Explorer Version 8.80.2503  
 03/11/2020

Figure 1: Smoothed TC Combined - Map



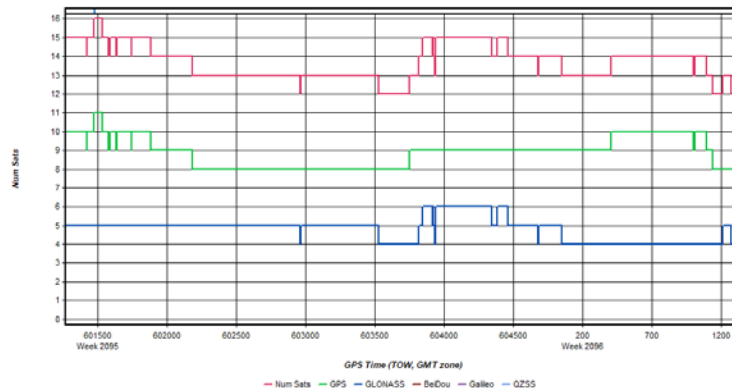
Process HicksDome\_20200307\_225857 by Unknown on 3/11/2020 at 17:20:20

Figure 2: HicksDome\_20200307\_225857 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200307\_225857 by Unknown on 3/11/2020 at 17:20:20

Figure 3: HicksDome\_20200307\_225857 [Smoothed TC Combined] - Number of Satellites Line Plot



Process HicksDome\_20200307\_225857 by Unknown on 3/11/2020 at 17:20:20



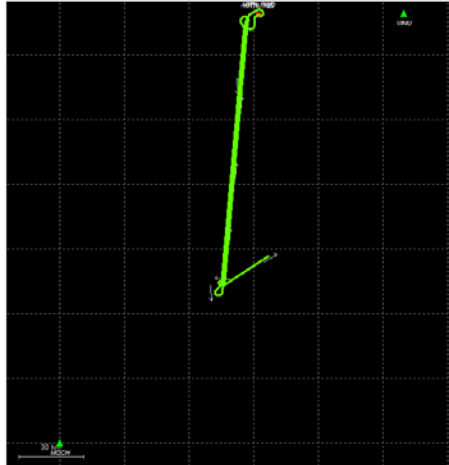
3/12/2020

Inertial Explorer Project HicksDome\_20200308\_003052

### Output Results for HicksDome\_20200308\_003052

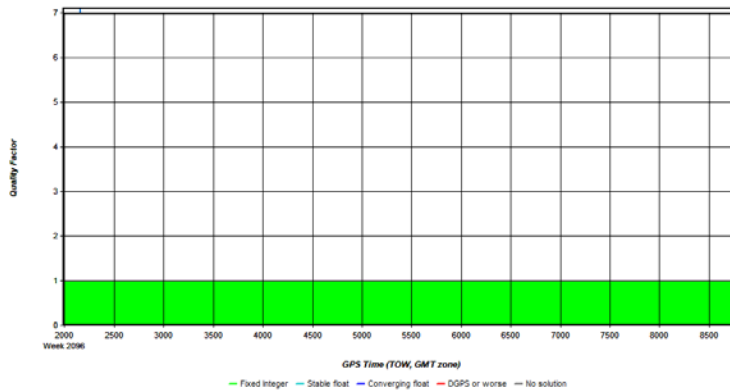
Inertial Explorer Version 8.80.2503  
03/12/2020

Figure 1: Smoothed TC Combined - Map



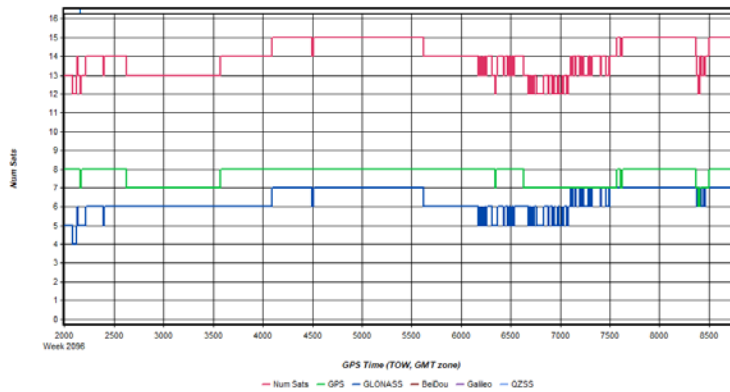
Process HicksDome\_20200308\_003052 by Unknown on 3/12/2020 at 09:09:55

Figure 2: HicksDome\_20200308\_003052 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200308\_003052 by Unknown on 3/12/2020 at 09:09:55

Figure 3: HicksDome\_20200308\_003052 [Smoothed TC Combined] - Number of Satellites Line Plot

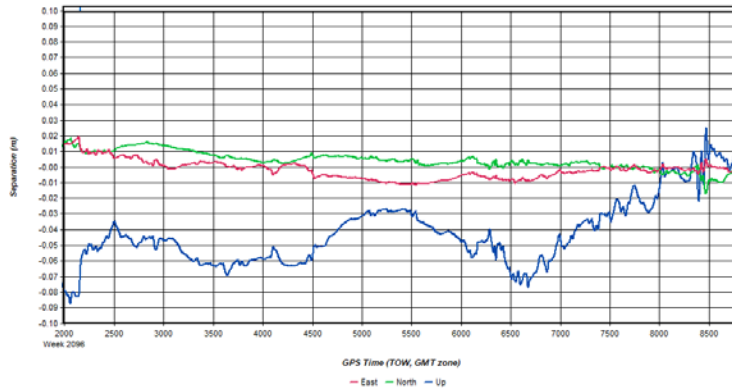


Process HicksDome\_20200308\_003052 by Unknown on 3/12/2020 at 09:09:55

3/12/2020

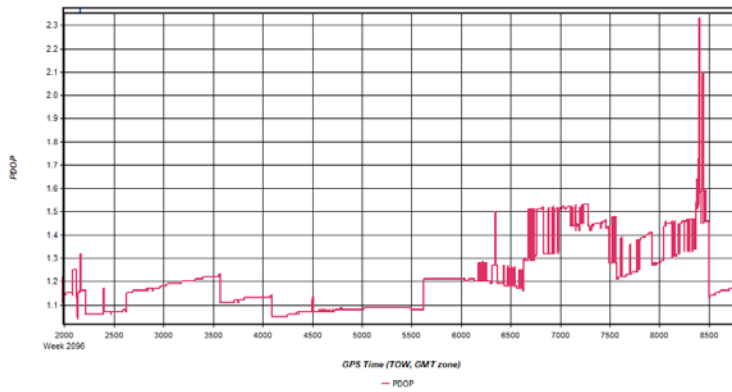
Inertial Explorer Project HicksDome\_20200308\_003052

Figure 4: HicksDome\_20200308\_003052 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200308_003052	by Unknown	on 3/12/2020	at 09:09:55
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Figure 5: HicksDome\_20200308\_003052 [Smoothed TC Combined] - PDOP Plot



Process	HicksDome_20200308_003052	by Unknown	on 3/12/2020	at 09:09:55
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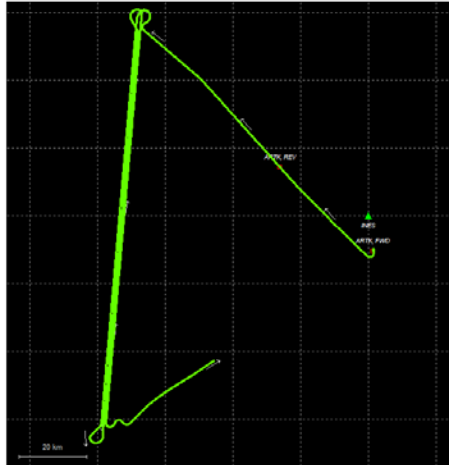
3/12/2020

Inertial Explorer Project HicksDome\_20200308\_031434

### Output Results for HicksDome\_20200308\_031434

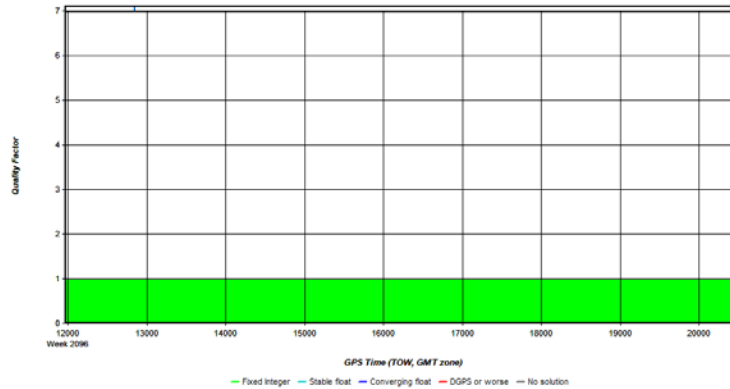
Inertial Explorer Version 8.80.2503  
 03/12/2020

Figure 1: Smoothed TC Combined - Map



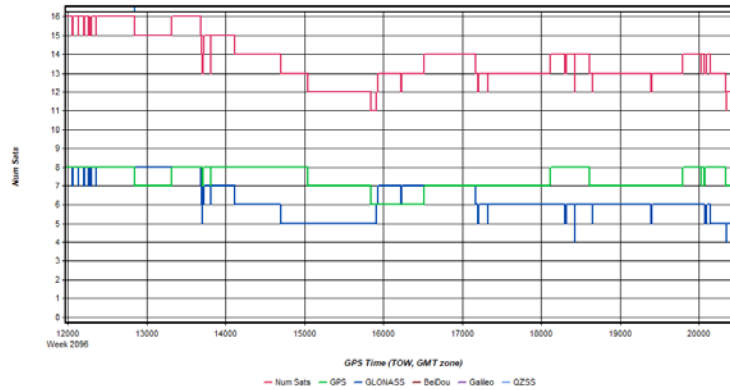
Process HicksDome\_20200308\_031434 by Unknown on 3/12/2020 at 12:15:47

Figure 2: HicksDome\_20200308\_031434 [Smoothed TC Combined] - Quality Factor Plot



Process HicksDome\_20200308\_031434 by Unknown on 3/12/2020 at 12:15:47

Figure 3: HicksDome\_20200308\_031434 [Smoothed TC Combined] - Number of Satellites Line Plot

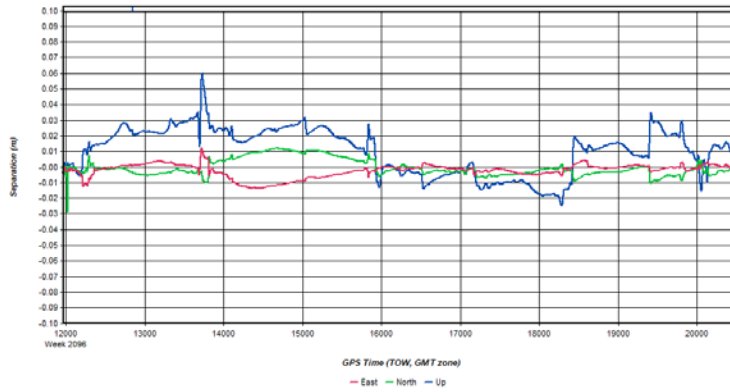


Process HicksDome\_20200308\_031434 by Unknown on 3/12/2020 at 12:15:47

3/12/2020

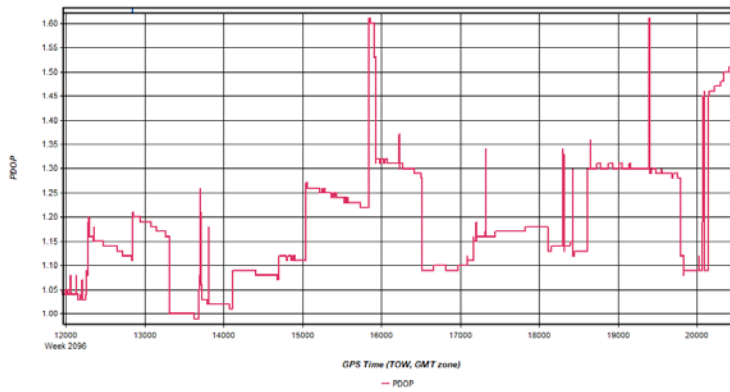
Inertial Explorer Project HicksDome\_20200308\_031434

Figure 4: HicksDome\_20200308\_031434 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	HicksDome_20200308_031434	by Unknown	on 3/12/2020	at 12:15:47
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Figure 5: HicksDome\_20200308\_031434 [Smoothed TC Combined] - PDOP Plot



Process	HicksDome_20200308_031434	by Unknown	on 3/12/2020	at 12:15:47
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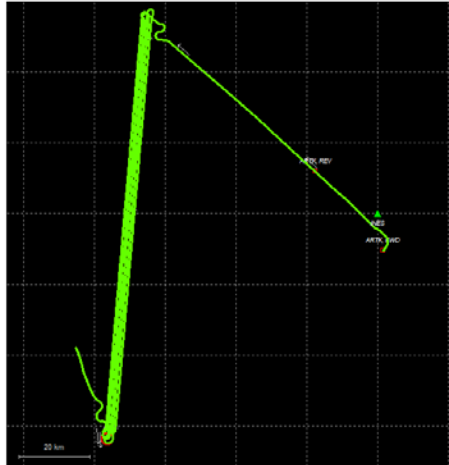
3/12/2020

Inertial Explorer Project HicksDome\_20200308\_063825

**Output Results for HicksDome\_20200308\_063825**

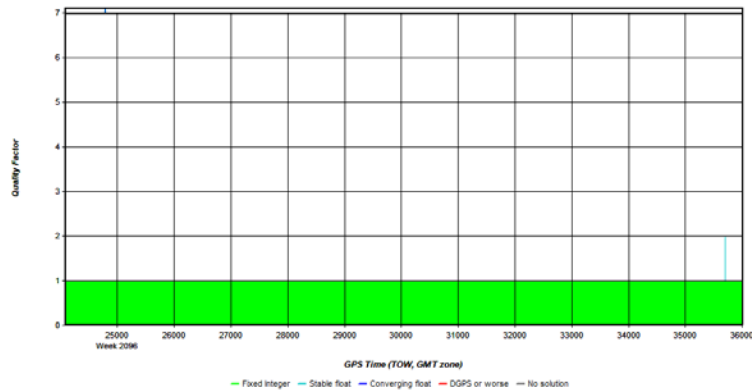
Inertial Explorer Version 8.80.2503  
 03/12/2020

**Figure 1: Smoothed TC Combined - Map**



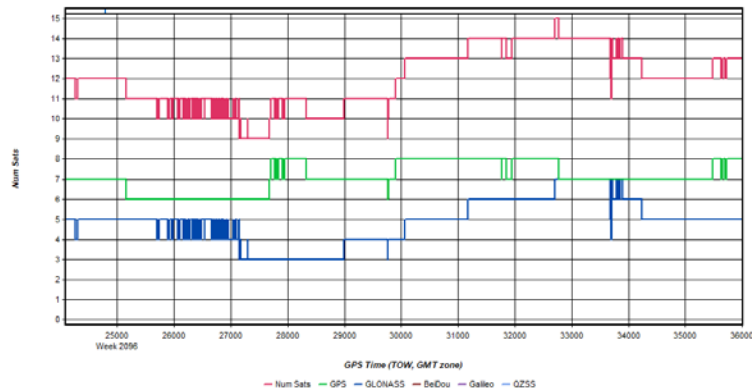
Process HicksDome\_20200308\_063825 by Unknown on 3/12/2020 at 12:50:17

**Figure 2: HicksDome\_20200308\_063825 [Smoothed TC Combined] - Quality Factor Plot**



Process HicksDome\_20200308\_063825 by Unknown on 3/12/2020 at 12:50:17

**Figure 3: HicksDome\_20200308\_063825 [Smoothed TC Combined] - Number of Satellites Line Plot**



Process HicksDome\_20200308\_063825 by Unknown on 3/12/2020 at 12:50:17

