

# **IL\_West Central QL2+ Lidar 2017 Final Report**

Report Produced for U.S. Geological Survey

TASK ORDER: G17PD01203

REPORT DATE: 10/24/2018

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## OVERVIEW

The primary purpose of this project was to develop a consistent and accurate surface elevation dataset derived from high-accuracy Light Detection and Ranging (LiDAR) technology for the USGS IL\_West Central County QL2+ Lidar 2017 project Area. West Central Illinois is the focus of this report and is one area of interest (AOI) from a lidar survey that was collected over two (2) areas of interest in Illinois. The AOIs cover approximately 3,077 square miles in total and include the counties of Schuyler, Brown, Menard, Mason, Sangamon and Morgan. The Base AOI covers approximately 1,926 square miles in total and the Option AOI covers approximately 1,151 square miles in total.

The LiDAR data was processed and classified according to project specifications. Detailed breaklines, bare earth Digital Elevation Models (DEMs), and Intensity Images were produced for the project area. Data was formatted according to tiles with each tile covering an area of 2,000 feet by 2000 feet. A total of 22,208 LAS files, 22,209 DEMs, and 22,208 Intensity Images were produced for the project encompassing an area of approximately 3,077 square miles and formatted into 22,209 total tiles. In an effort to preserve smooth continuity of the surface in which there are multiple overlapping swaths, an isolated area of cross flight line 229 was bit set at withheld in the following nine tiles: 2207\_1295, 2207\_1293, 2209\_1297, 2209\_1295, 2209\_1293, 2311\_1297, 2311\_1295, 2311\_1293, and 2313\_1297. In addition, one tile located in Mason County, titled 2353\_1367, did not contain LAS points as it consisted strictly of water with no ground points present. Therefore, no intensity image TIF can be produced for this tile, only a hydro-flattened DEM image. These tiles will be included in the tile index.

## 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 and building rooftop cleanup, preformed hydro collection, flattening, and produced bare earth DEMs for 2/3 of the project area. 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 use in independent testing of the vertical accuracy of the LiDAR-derived surface model. Please see SURVEY REPORT to view the separate Survey Report that was created for this portion of the project.

## SURVEY AREA

The project area addressed by this report falls within the counties of Schuyler, Brown, Menard, Mason, Sangamon and Morgan, Illinois.

## DATE OF SURVEY

LiDAR acquisition was conducted from December 3, 2017 to December 13, 2017.

## 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 West State Plane (FIPS 1202)

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

**Geoid Model:** Geoid12B

## LIDAR VERTICAL ACCURACY

For the IL\_West Central QL2+ project, the tested RMSEz of the classified LiDAR data for checkpoints in non-vegetated terrain equaled 6.253 cm (0.205 ft), compared with the 10 cm (0.33 ft) specification: The 95% confidence value of NVA of the classified LiDAR data computed using RMSEz x 1.96 and was found to equal 12.256 cm (0.402 ft), compared with the 19.6 cm (0.64 ft) specification.

For the IL\_West Central QL2+ project, the tested VVA of the classified LiDAR data computed using the 95<sup>th</sup> percentile was equal to 17.489 cm (0.574 ft), compared with the 29.4 cm (0.96 ft) 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.

1. Classified Point Cloud Data (Tiled)
2. Bare Earth Surface (Raster DEM – IMG format)
3. Intensity Images (8-bit gray scale, tiled, GeoTIFF format)
4. Breakline Data (File GDB)
5. Independent Survey Checkpoint Data
6. Calibration Points
7. Metadata
8. Project Report (Acquisition, Processing, QC)
9. Project Extent (Included in GDB)
10. Tile Index (included in GDB)

### PROJECT TILING FOOTPRINT

22,209 tiles, 22,208 LAS files, 22,209 DEM tiles, and 22,208 Intensity Image tiles were delivered for the project. Each tile's extent is 2,000 feet by 2,000 feet. (See Appendix A for a complete listing of delivered tiles.)

IL\_West Central QL2+ LiDAR

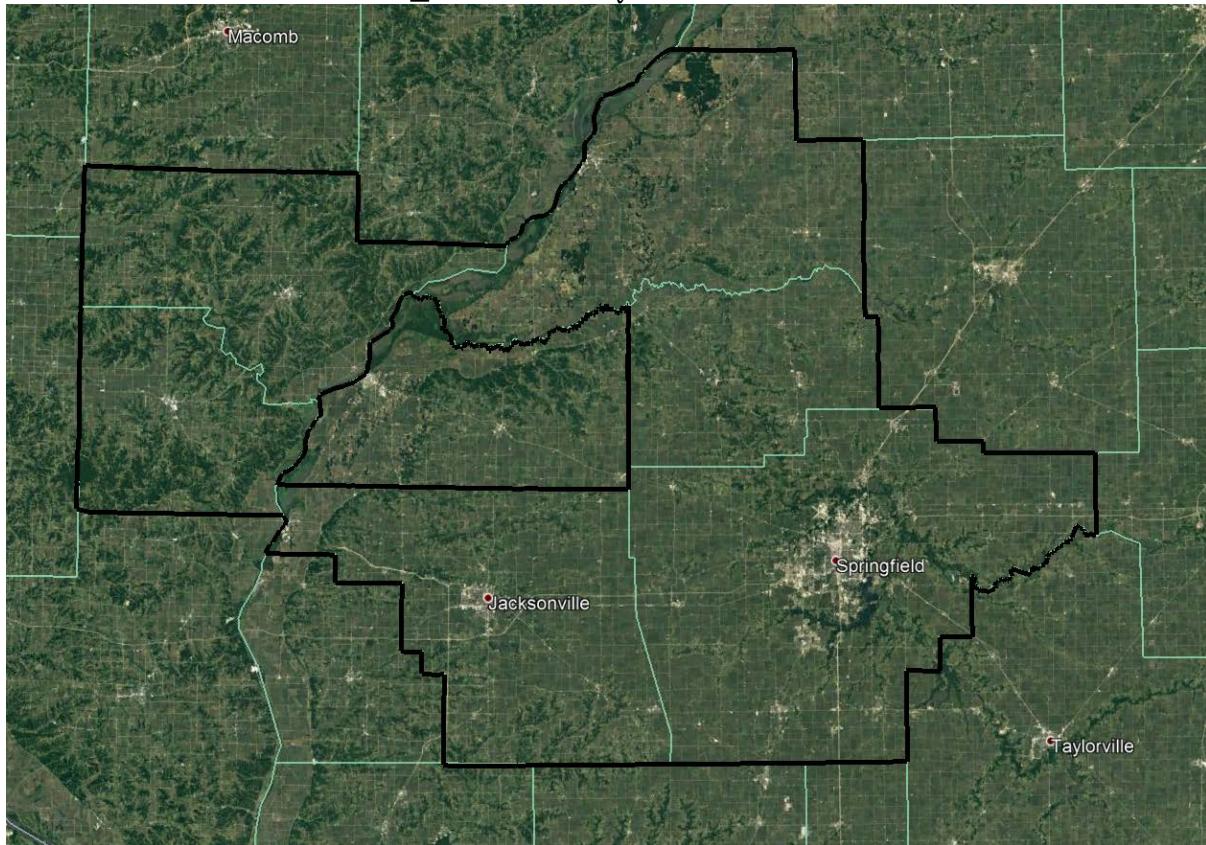


Figure 1 – Area of Interest

## LIDAR ACQUISITION DETAILS

Aerial Services, Inc. served as prime contractor for the IL\_West Central QL2+ and expansion counties QL2 project and preformed the LiDAR Acquisition and Calibration.

Aerial Services, Inc. planned 227 passes for the project area as well a series of cross flightlines for the purposes of quality control. 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.
- 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 # N92HC) 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.

Item	Parameter
System	Leica ALS-70 HP
Maximum Number of Returns per Pulse	4
Nominal Pulse Spacing (single swath), (m)	0.5
Nominal Pulse Density (single swath) (ppsm), (m)	4
Aggregate NPS (m) (if ANPS was designed to be met through single coverage, ANPS and NPS will be equal)	0.5
Aggregate NPD (m) (if ANPD was designed to be met through single coverage, ANPD and NPD will be equal)	4
Altitude (AGL meters)	1300
Approx. Flight Speed (knots)	110
Total Sensor Scan Angle (degree)	50
Scan Frequency (hz)	47
Scanner Pulse Rate (kHz)	197
Did the Sensor Operate with Multiple Pulses in The Air? (yes/no)	Yes
Nominal Swath Width on the Ground (m)	1212
Swath Overlap (%)	30
Max. Point Spacing Along Track (m)	1.02
Max. Point Spacing Across Track (m)	1.03

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.

Figure 2 shows the combined trajectory of the flightlines.

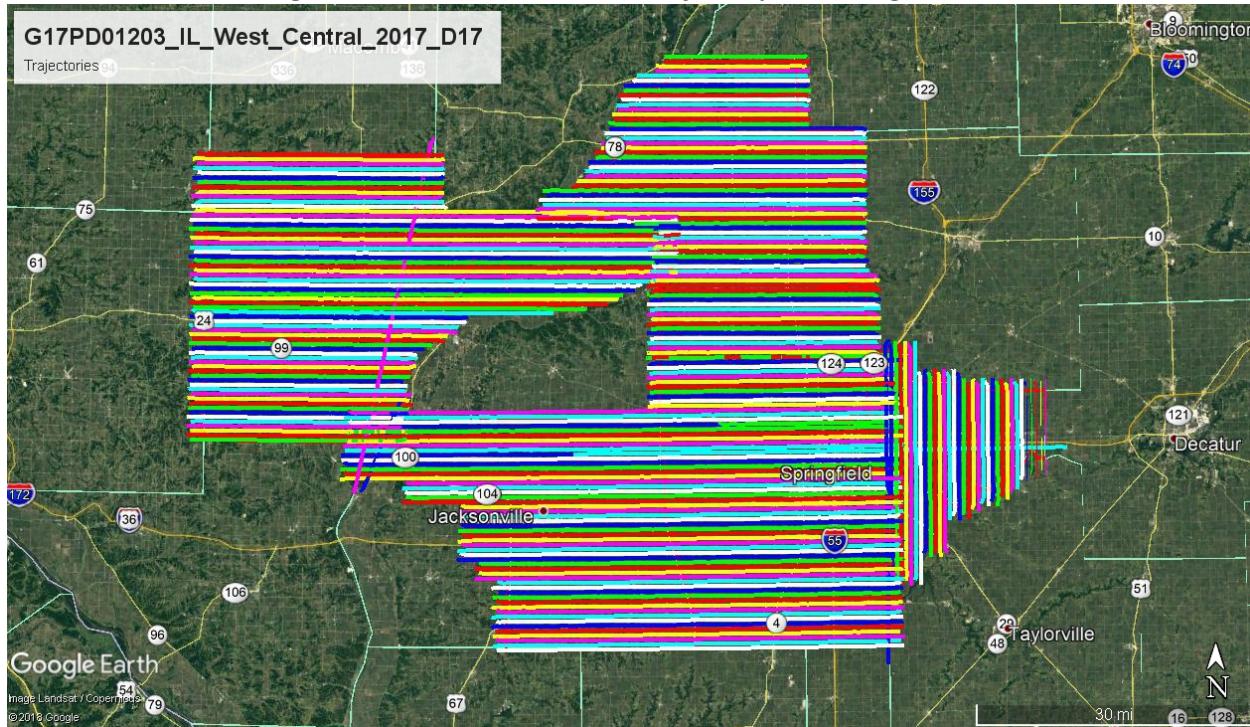


Figure 2: Trajectories as flown by Aerial Services, Inc.

## ACQUISITION CONTROL

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

Name	NAD83(2011) UTM 16		Ellipsoid Ht (WGS84, m)
	Easting X (m)	Northing Y (m)	
DE9521	<b>744650.079</b>	<b>353564.051</b>	<b>133.079</b>
DG6009	<b>679541.067</b>	<b>367545.087</b>	<b>107.288</b>
ILUC	<b>865961.636</b>	<b>382794.804</b>	<b>233.775</b>
MOBG	<b>610250.115</b>	<b>298087.803</b>	<b>240.716</b>
MOEB	<b>647111.287</b>	<b>390037.328</b>	<b>110.109</b>
KA21	<b>781914.348</b>	<b>458322.278</b>	<b>193.103</b>
HDIL	<b>773908.783</b>	<b>432074.011</b>	<b>201.043</b>
BLOM	<b>798908.478</b>	<b>425672.684</b>	<b>205.969</b>
MOCN	<b>582651.962</b>	<b>386831.782</b>	<b>159.399</b>
ILSA	<b>747659.869</b>	<b>345557.103</b>	<b>154.030</b>

Table 2 – Base station used to control lidar acquisition for the Project.

## AIRBORNE GPS KINEMATIC

Airborne GPS data was processed using Waypoint's Inertial Explorer version 8.60 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. Distances from base station to aircraft were kept to a maximum of 50 km.

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.

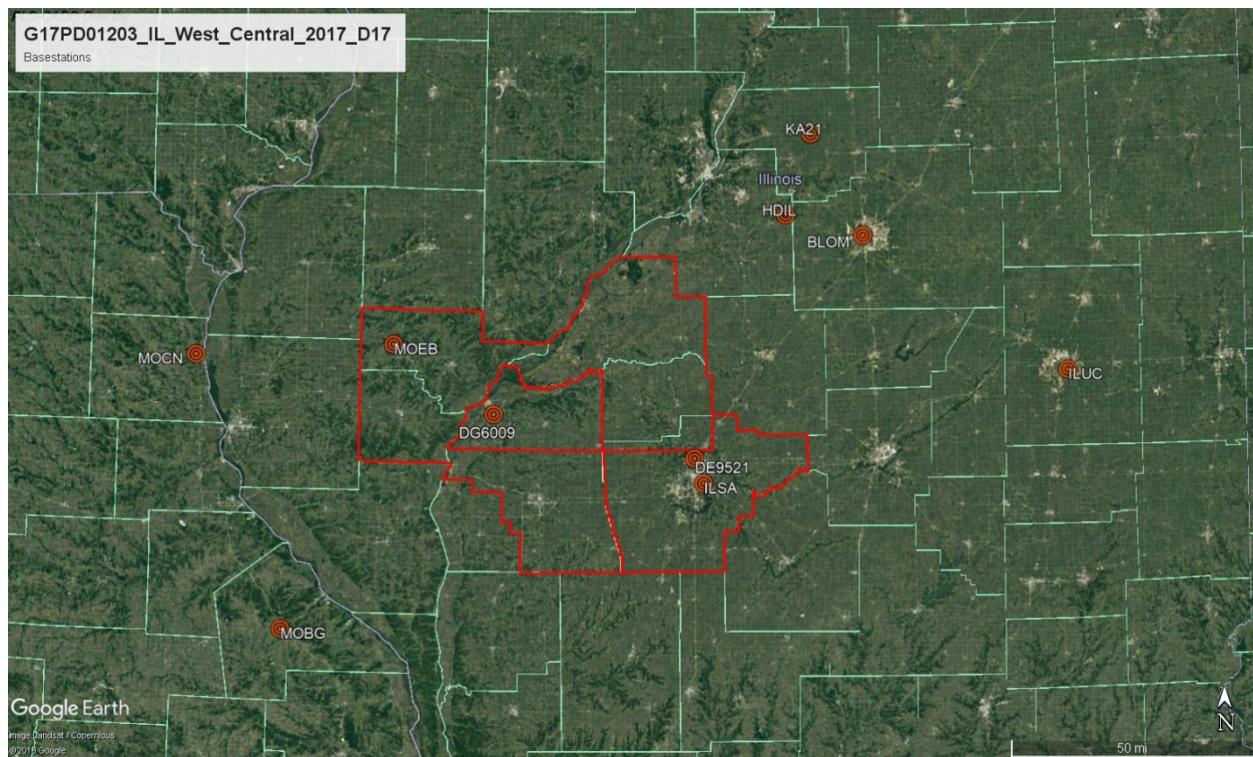


FIGURE 3 – IL\_WEST CENTRAL BASESTATION LOCATIONS

## 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 boresite 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 the 100 meter buffer 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, and at minimum 8 cm RMSDz with a 16 cm maximum difference. Tested interswath RMSDz was 2.298 cm, or 0.075 feet.

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.

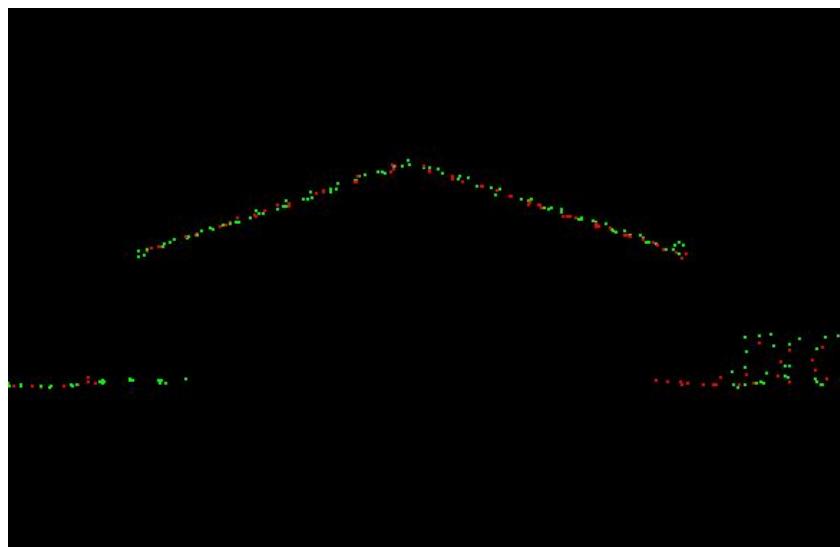


Figure 5 – Profile view showing proper interswath calibration.

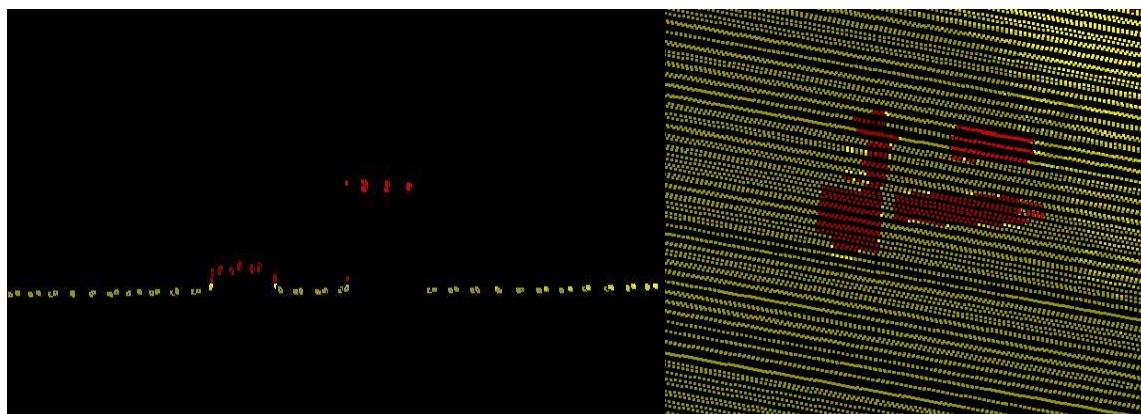


Figure 6 – Top view showing a parking lot with a car and raised feature on a single swath demonstrating intraswath accuracy. Yellow color is scaled to a range of 6 cm in elevation. Points are within 6 cm of variation until the raised curb and car. Also shown is a profile view showing low variability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

## FINAL CALIBRATION VERIFICATION

Surveying and Mapping, LLC (SAM) conducted the survey for 63 ground control points (GCPs) of which 61 were used to test the accuracy of the calibrated swath data. These 61 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 3 and the accuracy results from testing the calibrated swath data against the GCPs is provided in table 4; 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: 0.205 ft (6.248 cm) with a 95% confidence value of 0.402 ft (12.247 cm).

Point ID	NAD83 (2011 adj) Illinois East State Plane		NAVD88 (Geoid 12B)		Dz
	Easting X (USft)	Northing Y (USft)	Z-Survey (USft)	Z-LiDAR (USft)	
GCP-01	2092392.79	1315916.878	630.816	630.850	0.034
GCP-02	2214784.232	1312154.856	635.255	635.070	-0.185
GCP-03	2177291.084	1301960.626	658.271	658.100	-0.171
GCP-04	2126991.093	1286423.627	490.526	490.350	-0.176
GCP-05	2206106.768	1279272.65	657.354	657.070	-0.284
GCP-06	2094517.708	1263413.624	698.995	698.970	-0.025
GCP-07	2171331.773	1255572.545	623.331	623.360	0.029
GCP-08	2299779.649	1273383.823	471.386	471.250	-0.136
GCP-09	2348027.267	1258531.788	480.995	481.030	0.035
GCP-11	2311200.041	1246898.232	455.132	455.130	-0.002
GCP-12	2234858.502	12255512.517	449.620	449.390	-0.230
GCP-13	2128193.115	1232758.306	709.545	709.450	-0.095
GCP-14	2215326.658	1224551.371	429.797	429.740	-0.057
GCP-15	2189429.338	1198332.967	681.390	681.240	-0.150
GCP-16	2128629.997	1209293.101	738.274	738.050	-0.224
GCP-17	2104587.499	1158126.115	523.364	523.300	-0.064
GCP-18	2193621.388	1168314.685	434.528	434.470	-0.058
GCP-20	2446237.252	1160659.256	525.083	525.160	0.077
GCP-21	2182114.765	1137700.850	444.691	444.710	0.019
GCP-22	2376120.764	1370181.629	510.118	510.030	-0.088
GCP-23	2421887.777	1362255.180	517.142	517.250	0.108
GCP-24	2364175.468	1356989.321	495.440	495.530	0.090
GCP-25	2390874.22	1338242.065	496.525	496.590	0.065
GCP-26	2311173.110	1297998.453	451.479	451.750	0.271
GCP-27	2353990.465	1322278.129	495.262	495.310	0.048
GCP-28	2341753.459	1280229.318	492.569	492.490	-0.079
GCP-29	2282626.429	1166772.958	548.086	547.750	-0.336
GCP-30	2310574.187	1148901.187	606.639	606.500	-0.139
GCP-31	2370332.318	1114561.599	648.970	649.230	0.260
GCP-32	2443331.288	1327773.268	532.747	532.750	0.003
GCP-33	2369749.136	1290098.364	490.958	491.040	0.082

GCP-34	2427957.741	1306776.500	584.139	584.750	0.611
GCP-35	2442779.055	1284784.600	554.008	553.700	-0.308
GCP-36	2417405.233	1244837.968	531.224	530.950	-0.274
GCP-37	2366225.263	1151776.431	630.037	630.020	-0.017
GCP-38	2354961.276	1061031.683	654.162	654.280	0.118
GCP-39	2453230.342	12345652.666	602.270	602.230	-0.040
GCP-40	2365085.99	1226427.267	593.752	593.570	-0.182
GCP-41	2388265.065	1050446.304	688.324	688.510	0.186
GCP-42	2434405.141	1205342.820	611.191	611.370	0.179
GCP-43	2361472.292	1193714.167	623.845	623.660	-0.185
GCP-44	2472965.840	1195715.959	580.761	580.830	0.069
GCP-45	2388131.827	1183564.332	584.383	584.510	0.127
GCP-46	2508641.419	1184968.448	613.158	613.410	0.252
GCP-47	2473503.694	1157738.908	578.676	578.630	-0.046
GCP-48	2489817.054	1153345.518	585.627	585.790	0.163
GCP-49	2474353.523	1089078.856	592.925	592.940	0.015
GCP-50	2499476.091	1104430.568	588.541	588.300	-0.241
GCP-51	2560506.898	1153233.588	574.992	575.010	0.018
GCP-52	2541503.605	1153183.131	602.236	602.190	-0.046
GCP-53	2525281.514	1135776.714	595.084	595.100	0.016
GCP-54	2552326.575	1182656.547	603.600	603.850	0.250
GCP-55	2414568.982	1139116.997	594.771	606.710	0.025
GCP-56	2230697.962	1129003.757	624.320	624.180	-0.140
GCP-57	2279027.997	1118431.831	594.771	594.680	-0.091
GCP-58	2442400.047	1109961.271	594.112	594.000	-0.112
GCP-59	2321076.791	1097678.265	677.369	677.670	0.301
GCP-60	2264466.759	1041216.076	565.580	565.440	-0.140
GCP-61	2300910.931	1075864.030	696.992	696.970	-0.022
GCP-62	2414146.479	1070715.956	624.866	624.960	0.094
GCP-63	2473020.014	1046590.884	609.115	609.060	-0.055

Table 3 – IL\_West Central Project surveyed ground control points (GCPs).

This project must meet Non-vegetated Vertical Accuracy (NVA)  $\leq 0.64$  ft (19.6 cm) at the 95% confidence level based on  $RMSE_z \leq 0.33$  ft (10 cm)  $\times 1.9600$ .

100 % of Totals	# of Points	RMSEz NVA (m)	NVA-Non-vegetated Vertical Accuracy ((RMSEz $\times 1.9600$ ) m	Mean (m)	Median (m)	Skew	Std Dev (m)	Min (m)	Max (m)	Kurtosis
GCP	61	0.052	0.101	-0.004	-0.007	0.783	0.052	-0.102	0.186	1.82

Table 4 - Ground control points (GCPs) 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 remaining class 1. With Building size parameters set, extraction of buildings from the vegetation class occurs. Once building had been deduced the remaining vegetation points were re-filtered by distance into Low Vegetation is 0.5-5 feet, Medium Vegetation is 5-20 feet, High Vegetation is >20 feet.

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. Building rooftops were manually reviewed to ensure that proper classification had occurred. After the ground classification and building corrections completed, the dataset was processed through a water classification routine that utilizes breaklines compiled by subcontractors Tetra Tech as well as breaklines compiled by the prime ASI 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 10 ignored ground, due to breakline proximity. Overage points are then identified in TerraScan and used to set the overlap bit for those points. The withheld points identified during the classification routine are used to set the withheld bit. The LiDAR tiles were classified to the following classification schema:

- o Class 1 – Default, Processed, but unclassified
- o Class 2 – Ground, Bare-earth
- o Class 3 – Low Vegetation is 0.5-5 feet
- o Class 4 – Medium Vegetation is 5-20 feet
- o Class 5 – High Vegetation is >20 feet
- o Class 6 – Buildings
- o Class 7 – Low Noise (low and manually identified)
- o Class 9 – Water
- o Class 10 – Ignored Ground (Breakline Proximity)
- o Class 17 – Bridge Decks
- o Class 18 – High Noise (high, manually identified)

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, lasvalidate, lasread v1.1 and an ASI proprietary software was used to perform final analysis to checks on LAS header information, LAS point classes, and LAS timestamps.

### **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. Bare earth DEMs for Schuyler, Mason, and Sangamon counties of this project were provided by subcontractor Tetra Tech, the remainder were produced in-house by ASI. 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 IL\_West Central County 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 IL\_West Central county 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).

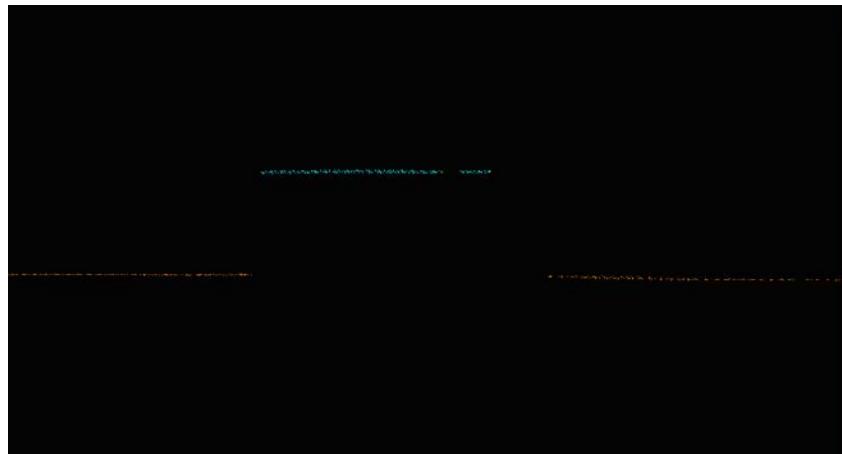


Figure 7: Profile view of a classified bridge deck (blue) and ground (orange).

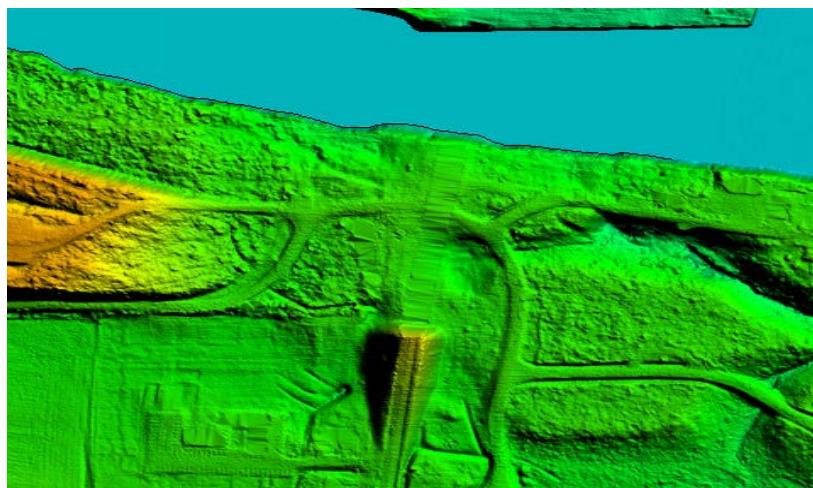


Figure 8: DEM with bridge removed from surface model.

## 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.

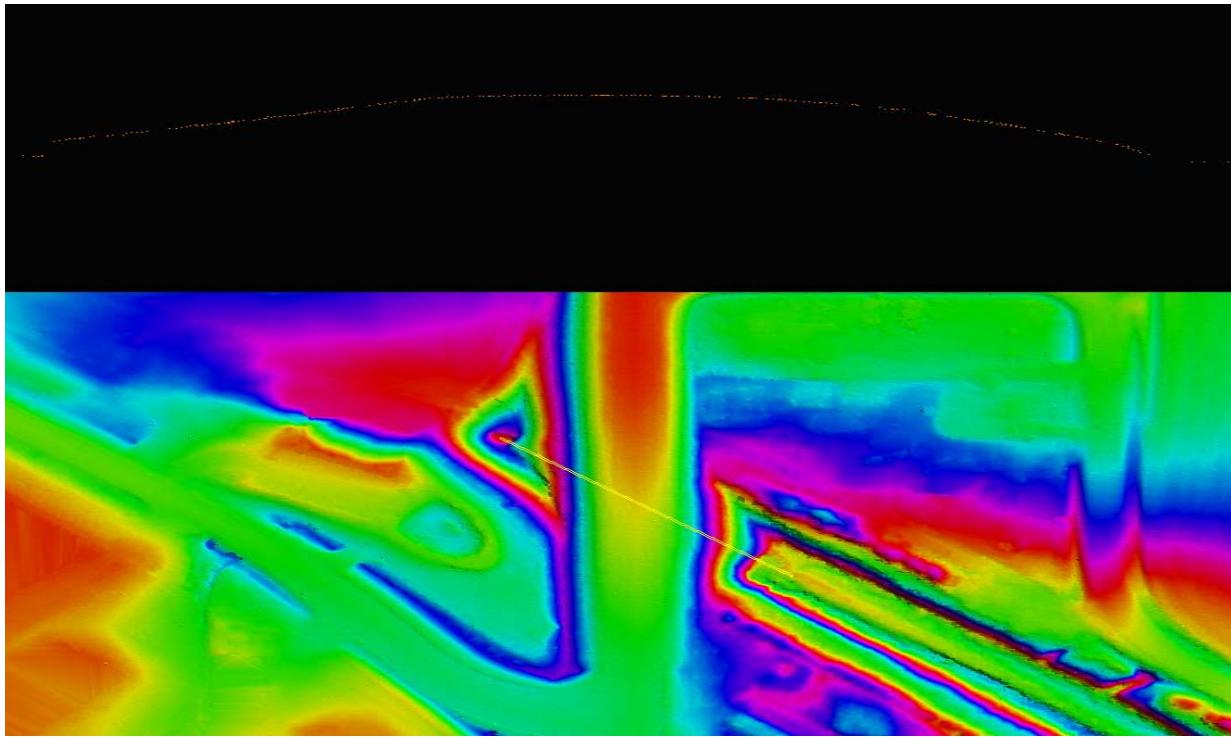
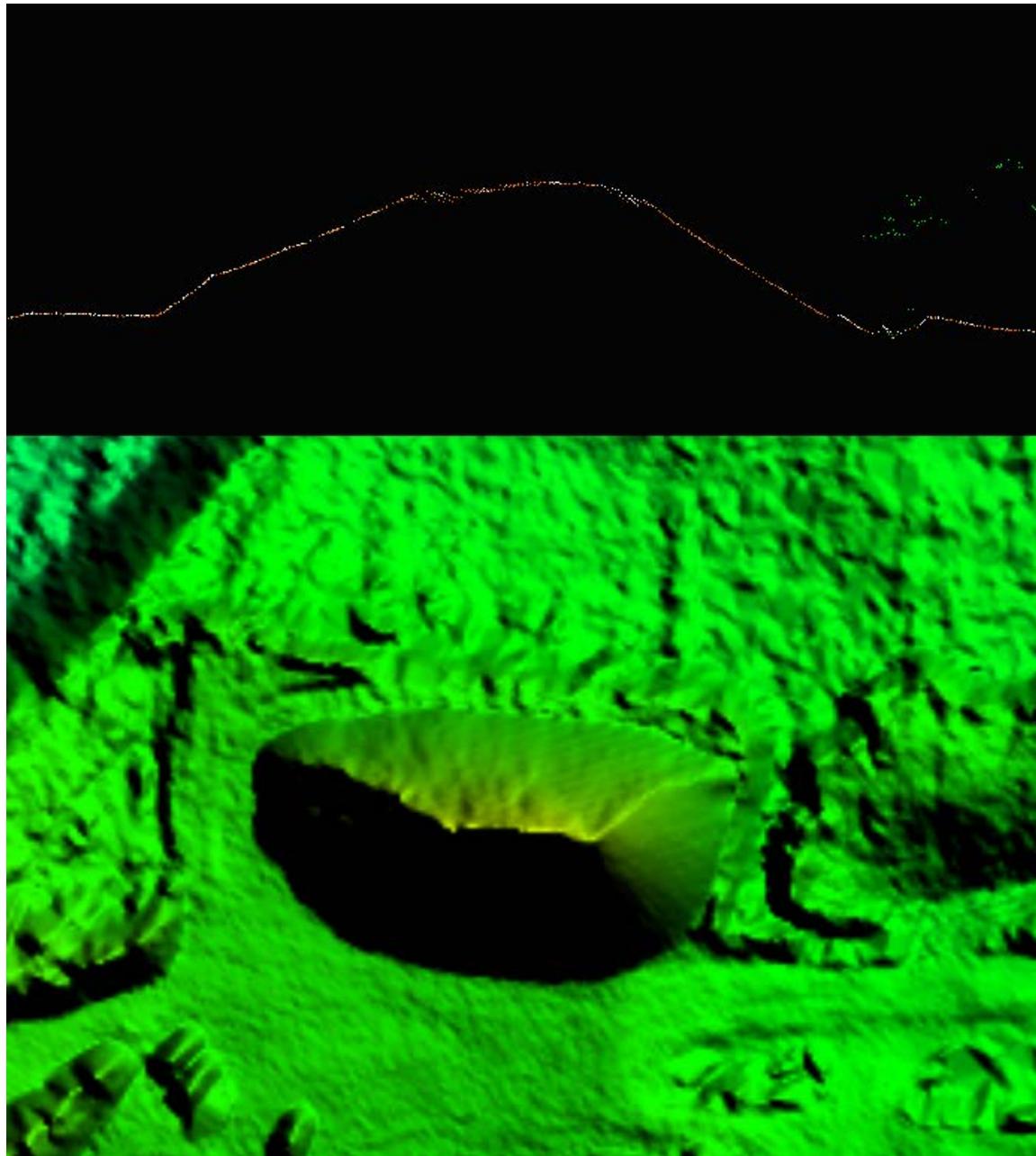


Figure 9: Profile with points colored by class (class 1=white, class 2=orange) is shown in the top view and the DEM is shown in the bottom view. This culvert remains in the bare earth surface. Bridges have been removed from the bare earth surface and classified to class 17.

### 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 10 - 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.

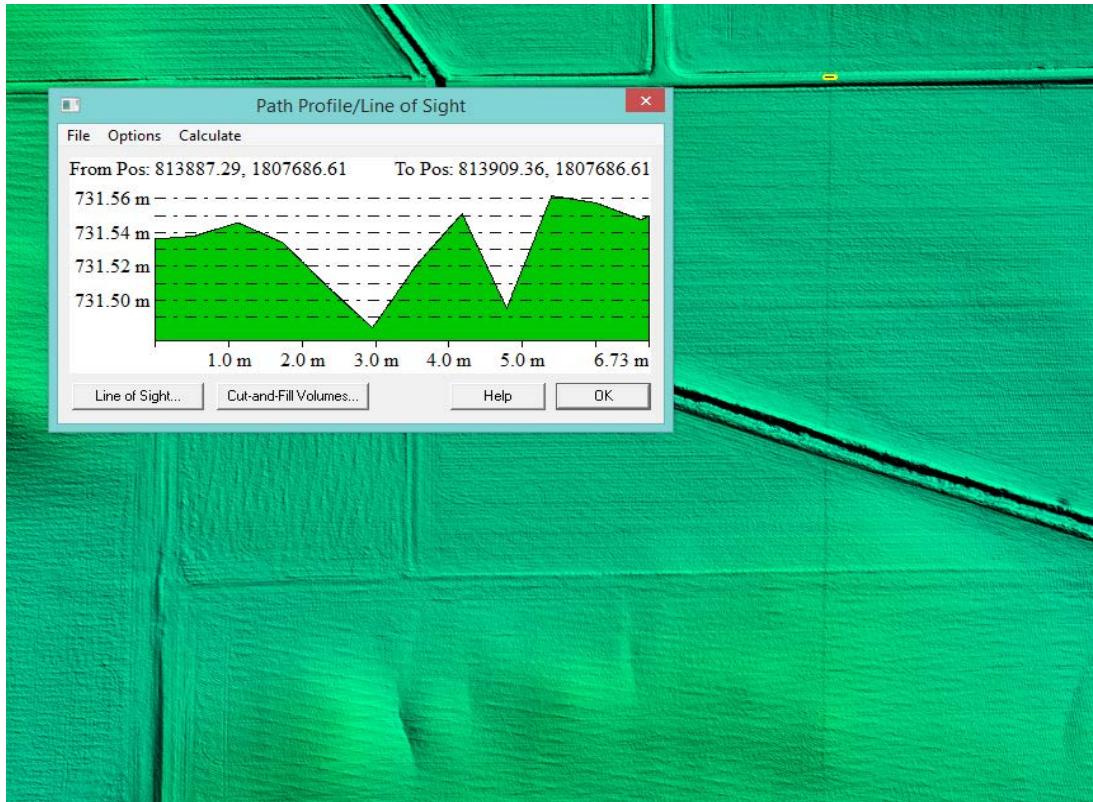


Figure 11 – The flight line ridge is less than 8 cm. Overall, the IL\_West Central project data meets the project specifications for 8 cm RMSDz relative accuracy requirement.

### Dam and Lock system

Irregularities in the natural water flow exist in sections of river affected by Lock and Dam systems. Series of locks enable vessels to “step” up or down a river or canal from one water level to another. There are Dam and Lock systems in the IL West Central Lidar project area.

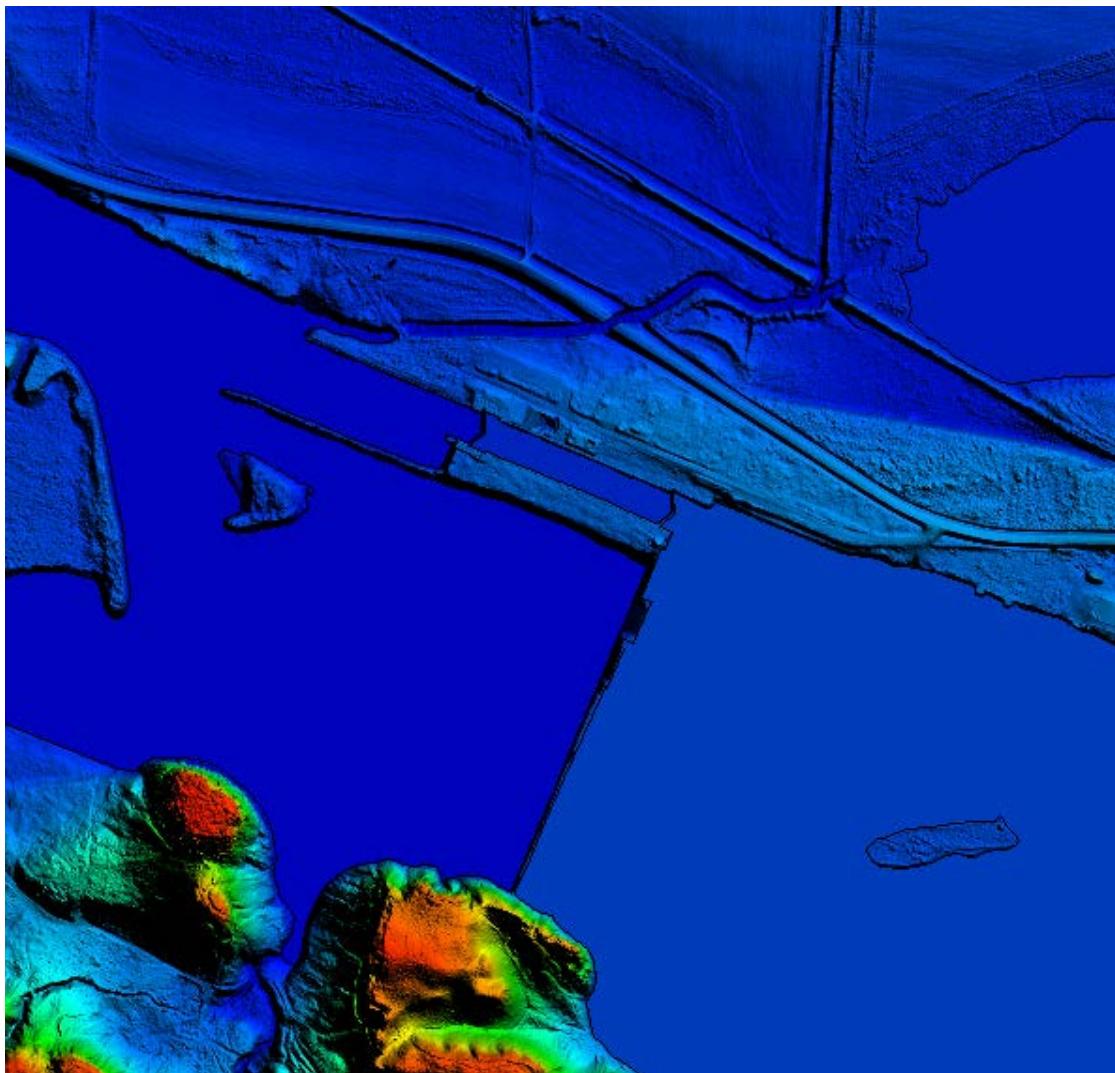


Figure 12 – DEM shows Large Dam structure that disrupts natural monotonic river flow, coupled with a lock system.

### 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 IL\_West Central project, one hundred sixty two check points were surveyed. Ninety one of those check points are located within bare earth/open terrain (91 NVA points). Seventy one check points are located within grass/weeds/crops, brush/low trees, and forested/fully grown land cover categories (71 VVA 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 West	NAD83 (2011) State Plane IL West	NAVD88 (Geoid12B)
	Easting (USft)	Northing (USft)	Elevation (USft)
NVA_01	2098259.295	1311777.304	639.355
NVA_02	2198618.716	1311183.791	633.537
NVA_03	2182908.798	1305874.041	667.242
NVA_04	2115925.422	1290366.198	614.869
NVA_05	2212614.231	1282265.691	640.348
NVA_06	2094349.796	1270139.887	683.101

NVA_07	2167900.428	1256856.794	613.565
NVA_08	2278680.371	1279468.526	459.706
NVA_09	2340256.747	1269258.531	494.923
NVA_10	2292438.325	1241173.455	450.027
NVA_11	2323758.721	1253525.319	458.751
NVA_12	2232442.945	1264035.736	614.942
NVA_13	2164557.027	1233799.043	587.886
NVA_14	2182772.736	1213040.812	450.945
NVA_15	2192739.072	1194657.436	455.724
NVA_16	2103710.468	1208242.182	747.077
NVA_17	2090010.710	1167820.465	608.916
NVA_18	2167460.806	1167005.410	466.926
NVA_19	2145858.790	1187305.916	664.536
NVA_20	2451599.781	1169885.776	580.984
NVA_21	2183869.171	1137607.057	441.766
NVA_22	2359435.283	1358796.793	485.900
NVA_23	2404275.387	1369199.045	497.234
NVA_24	2346070.735	1343341.473	471.233
NVA_25	2417203.886	1336544.690	505.154
NVA_26	2329906.507	1302038.438	482.832
NVA_27	2369885.468	1315857.705	502.968
NVA_28	2360162.888	1291783.985	495.103
NVA_29	2254715.262	1162896.211	554.442
NVA_30	2331769.138	1155562.622	631.243
NVA_31	2387392.143	1113822.740	637.482
NVA_32	2453620.386	1324142.016	602.721
NVA_33	2375195.856	1281559.954	521.681
NVA_34	2432043.506	1289089.013	566.095
NVA_35	2448738.306	1284204.848	561.000
NVA_36	2399077.097	1232968.605	561.502
NVA_37	2366255.508	1151319.563	628.845
NVA_38	2354355.302	1065500.167	671.786
NVA_39	2453380.564	1248299.576	603.548
NVA_40	2345606.176	1226600.703	602.160
NVA_41	2388267.026	1049191.303	693.516
NVA_42	2451574.455	1210866.265	608.646
NVA_43	2361377.762	1192713.488	623.934
NVA_44	2462205.287	1200467.232	581.634
NVA_45	2403374.255	1184898.378	599.262
NVA_46	2485569.569	1182251.333	569.328
NVA_47	2456034.712	1149410.173	571.890

NVA_48	2509106.045	1160601.891	616.438
NVA_49	2481423.717	1089056.830	583.411
NVA_50	2493756.189	1110106.287	585.036
NVA_51	2561703.221	1163897.394	603.549
NVA_52	2540854.452	1142701.729	595.360
NVA_53	2517006.578	1131560.869	601.231
NVA_54	2547336.067	1173494.003	599.658
NVA_55	2414231.947	1140039.115	599.393
NVA_56	2217840.600	1128208.840	629.345
NVA_57	2279012.839	1117190.979	612.464
NVA_58	2429217.019	1107469.427	591.727
NVA_59	2342610.526	1100506.230	672.758
NVA_60	2258772.034	1041824.567	655.695
NVA_61	2307871.581	1093484.492	668.329
NVA_62	2422127.506	1064774.437	620.091
NVA_63	2464441.057	1046516.824	616.445
NVA_64	2260762.264	1274450.840	466.911
NVA_65	2448658.799	1119020.690	589.200
NVA_66	2378057.333	1243137.271	531.758
NVA_67	2486843.726	1139260.021	590.849
NVA_68	2154293.170	1166579.418	628.641
NVA_69	2148321.079	1301255.468	637.890
NVA_70	2148125.710	1208963.324	658.216
NVA_71	2221455.303	1155464.787	591.149
NVA_72	2394200.846	1086729.896	617.755
NVA_73	2221852.360	1239035.040	450.298
NVA_74	2260471.197	1091366.505	632.432
NVA_75	2126102.031	1182001.390	681.935
NVA_76	2396868.698	1221876.806	595.675
NVA_77	2390541.807	1321906.845	500.510
NVA_78	2531291.101	1174241.252	597.556
NVA_79	2278221.654	1258961.172	444.575
NVA_80	2304507.836	1054838.216	645.729
NVA_81	2347561.304	1127513.904	648.050
NVA_82	2410317.045	1159265.368	595.006
NVA_83	2281312.432	1151683.636	590.128
NVA_84	2365412.161	1168554.098	614.582
NVA_85	2417068.869	1267834.070	568.861
NVA_86	2358668.628	1087472.319	652.661
NVA_87	2111578.439	1223438.231	739.082
NVA_88	2390063.279	1349253.702	502.899

NVA_89	2128512.332	1248185.842	614.951
NVA_90	2419246.036	1135858.974	587.564
NVA_91	2142500.660	1271032.419	482.671
VA_01	2094101.771	1311771.945	635.037
VA_02	2209616.920	1311248.434	631.986
VA_03	2177500.566	1301586.903	661.732
VA_04	2139035.429	1287137.808	597.223
VA_05	2198130.566	1275341.270	664.943
VA_06	2092581.929	1266078.148	683.198
VA_07	2168540.880	1256668.257	542.179
VA_08	2292420.958	1270726.553	443.279
VA_09	2352279.472	1254575.994	477.372
VA_10	2266903.984	1244520.241	451.287
VA_11	2308690.889	1252139.970	484.861
VA_12	2210722.023	1243061.869	627.704
VA_13	2137199.396	1236274.299	664.157
VA_14	2200072.004	1221084.078	432.359
VA_15	2162514.051	1195648.667	625.394
VA_16	2111839.849	1210826.521	724.722
VA_17	2088546.954	1160358.986	687.991
VA_18	2187184.833	1158136.650	455.725
VA_19	2152560.460	1177942.330	653.623
VA_20	2452278.348	1172517.114	567.991
VA_21	2197875.544	1140331.004	499.793
VA_22	2368093.155	1366078.523	498.019
VA_23	2406133.206	1369498.051	494.509
VA_24	2358054.639	1347616.598	493.647
VA_25	2406578.668	1348435.405	511.295
VA_26	2328904.338	1289178.715	496.504
VA_27	2364682.943	1310465.390	503.513
VA_28	2340867.829	1269786.922	501.167
VA_29	2282733.150	1154545.915	551.505
VA_30	2322628.122	1148479.747	584.433
VA_31	2367095.233	1095645.186	641.406
VA_32	2443637.907	1310454.732	578.836
VA_33	2403694.105	1284421.148	653.090
VA_34	2400912.868	1316769.849	514.748
VA_35	2441328.774	1274143.723	539.003
VA_36	2394792.900	1240130.713	523.428
VA_37	2378110.884	1163223.458	601.080
VA_38	2328053.529	1073856.217	676.988

VA_39	2436451.855	1238117.179	629.338
VA_40	2368460.641	1232457.162	588.953
VA_41	2358345.483	1047738.002	681.001
VA_42	2411690.436	1214810.268	579.378
VA_43	2355460.570	1197858.751	590.694
VA_44	2450845.401	1194168.091	563.397
VA_45	2417736.524	1176919.914	601.376
VA_46	2483451.121	1182234.910	565.331
VA_47	2475409.706	1159548.414	572.113
VA_48	2492837.030	1142307.502	556.947
VA_49	2463756.597	1089831.077	574.381
VA_50	2494077.060	1108416.483	583.930
VA_51	2557410.081	1162241.417	596.720
VA_52	2530353.326	1145611.187	589.665
VA_53	2520934.406	1134146.529	592.237
VA_53-1	2507528.723	1166938.778	650.245
VA_54	2526077.503	1175119.920	601.479
VA_55	2405846.011	1134997.055	609.996
VA_56	2227949.443	1141642.112	597.971
VA_57	2263731.488	1113512.696	677.671
VA_58	2433877.759	1112348.630	593.052
VA_59	2318992.582	1108155.252	640.899
VA_60	2272643.724	1061818.671	677.837
VA_61	2307928.599	1062656.161	624.966
VA_62	2429669.091	1070837.170	594.422
VA_63	2439903.699	1055752.685	615.324
VA_64	2239806.933	1266696.207	590.156
VA_65	2375603.381	1135715.888	584.120
VA_66	2402146.325	1260672.766	485.447
VA_67	2147261.347	1245496.512	486.914
VA_68	2179819.037	1216435.573	552.668
VA_69	2402395.962	1077495.788	622.699
VA_70	2234176.639	1156700.875	558.445

Table 5 – IL\_West Central project LiDAR Checkpoints.

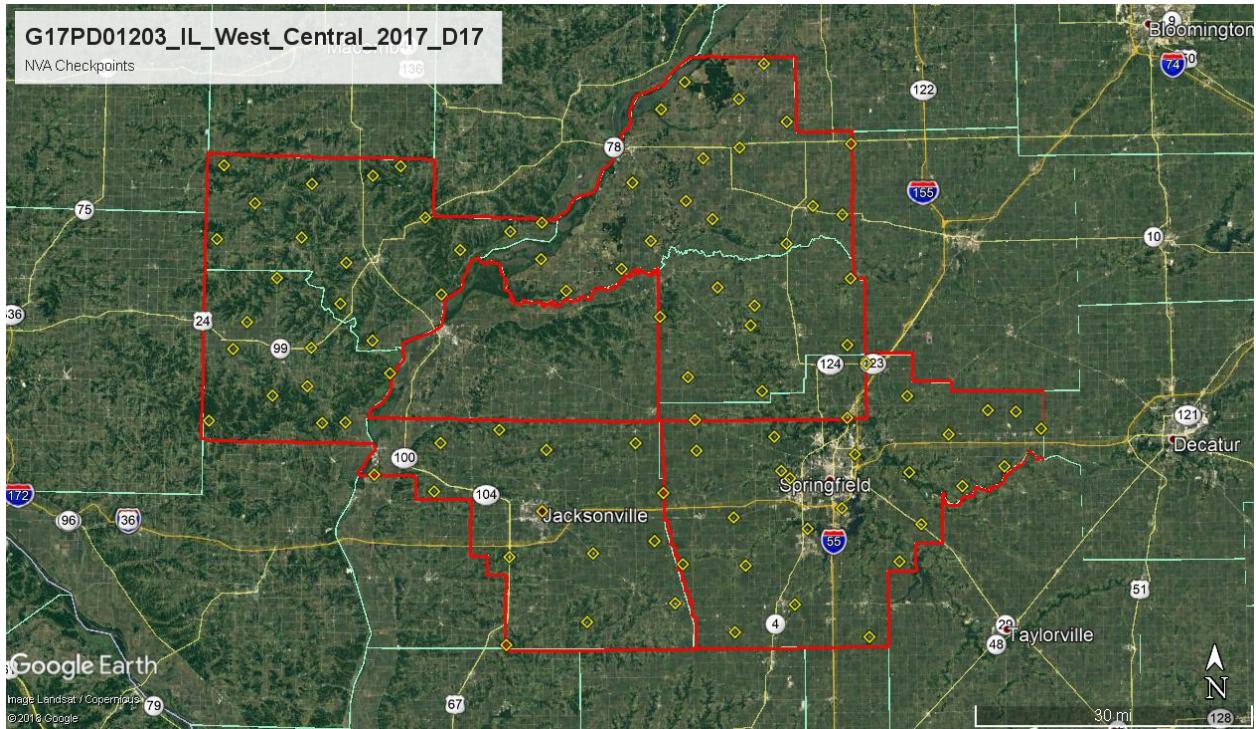


Figure 13 – Location of West Central LiDAR NVA Checkpoints

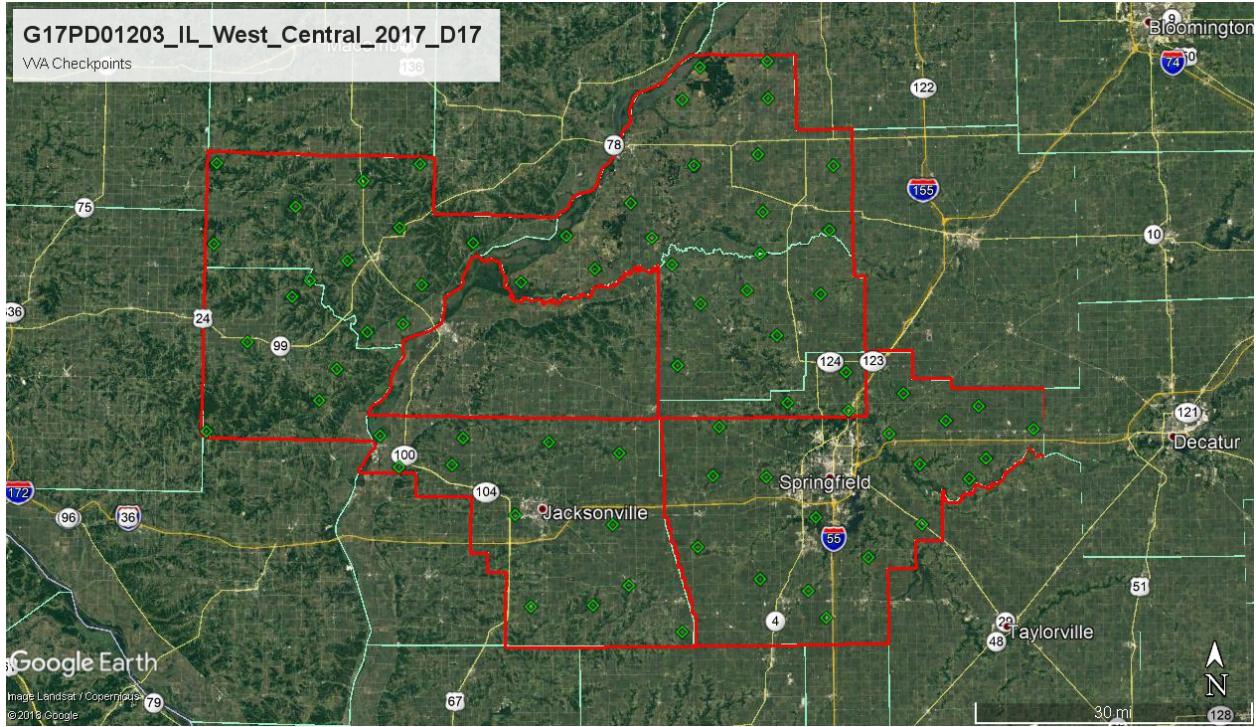


Figure 14- Location of West Central LiDAR VVA Checkpoints

## VERTICAL ACCURACY TEST PROCEDURES

NVA (Non-vegetated Vertical Accuracy) is determined with check points located only in nonvegetated terrain, including open terrain (grass, dirt, sand, and/or rocks) and urban areas, where there is a very high probability that the LiDAR sensor will have detected the bare-earth ground surface and where random errors are expected to follow a normal error distribution. The NVA determines how well the calibrated LiDAR sensor performed. With a normal error distribution, the vertical accuracy at the 95% confidence level is computed as the vertical root mean square error (RMSEz) of the checkpoints  $\times 1.9600$ . For the IL\_West Central and Expansion Counties project, vertical accuracy must be 0.64 ft (19.6 cm) or less based on an RMSEz of 0.33 ft (10 cm)  $\times 1.9600$ . 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 West Central LiDAR project VVA standard is 0.96 ft (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 6 – 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	91	0.12257	
VVA	71		0.17489

Table 7 – Tested NVA and VVA.

## HORIZONTAL ACCURACY TEST PROCEDURES

Horizontal accuracy testing requires well-defined checkpoints that can be identified in the dataset. Elevation datasets, including LiDAR datasets, do not always contain well-defined checkpoints suitable for horizontal accuracy assessment. However, the ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014) recommends at least half of the NVA vertical check points should be located at the ends of paint stripes or other point features visible on the LiDAR intensity image, allowing them to double as horizontal check points. ASI reviews all NVA checkpoints to determine which, if any, of these checkpoints are located on photo-identifiable features in the intensity imagery. Photo-identifiable checkpoints are a subset of NVA checkpoints and are used for horizontal accuracy testing.

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

1. SAM surveyed QA/QC vertical checkpoints in accordance with the project's specifications and tried to locate half of the NVA checkpoints on features photo-identifiable in the intensity imagery.
2. Next, ASI identified the well-defined features in the intensity imagery.
3. ASI then computed the associated xy-value differences between the coordinates of the well-defined feature in the LiDAR intensity imagery and the ground truth survey checkpoints.
4. The data were analyzed by ASI to assess the accuracy of the data. Horizontal accuracy was assessed using NSSDA methodology where horizontal accuracy is calculated at the 95% confidence level. This report provides the results of the horizontal accuracy testing.

## HORIZONTAL ACCURACY RESULTS

Twelve checkpoints were determined to be photo-identifiable in the intensity imagery and were used to test the horizontal accuracy of the LiDAR dataset. As only twelve (12) checkpoints were photo-identifiable, the results are not statistically significant enough to report as a final tested value, but the results of the testing are still shown in the table below. Using NSSDA methodology (endorsed by the ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014)), horizontal accuracy at the 95% confidence level (called ACCURACYr) is computed by the formula  $RMSEr * 1.7308$  or  $RMSEy * 2.448$ . No horizontal accuracy requirements or thresholds were provided for this project. However, LiDAR datasets are generally calibrated by methods designed to ensure a horizontal accuracy of 1 meter or less.

# of Points	RMSEx (ft)	RMSEy (ft)	RMSEr (ft)	ACCURACYr (RMSEr x 1.7308) (ft)
12	0.242	0.252	0.350	0.606

Table 8– Tested horizontal accuracy at the 95% confidence level.

Actual positional accuracy of this dataset was found to be RMSEx = 0.242 ft (7.389 cm) and RMSEy = 0.252 (7.696 cm) which equates to +/- 0.606 ft (18.466 cm) at 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 as the LiDAR point delivery. Hydrologic water-surface edges are set at or 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-m (100 feet), were collected to best fit the shoreline by using information in the LAS format; intensity format, ground surface TIN, and sometimes “quick guide” contours. Streams and rivers do not break at bridges, but they are closed ended breaks at culvert locations. Steams and Rivers breaklines have been delivered in PolylineZ format in the final GDB.

### Inland Ponds and Lakes

Inland ponds and lakes of 2 acres (86,111 square feet/ ~350' 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 4000m<sup>2</sup> (1 acre) or larger shall be delineated within all water bodies. Breaklines have been delivered in PolygonZ format in the final GDB

### Bridge Breaklines

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

## INTENSITY IMAGERY PRODUCTION & QUALITATIVE ASSESSMENT

### INTENSITY PRODUCTION METHODOLOGY

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

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

## INTENSITY QUALITATIVE ASSESSMENT

ASI performed a qualitative assessment of the Intensity deliverables to ensure that all tiled Intensity products were delivered with the proper extents, and contained proper referencing information. The image below show an example of an Intensity Image:



Figure 15 – 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. ArcGIS 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 mis-classifications, 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. This process was performed using a script ASI developed to verify that the raster extents match those of the tile grid and contain the correct projection information.

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

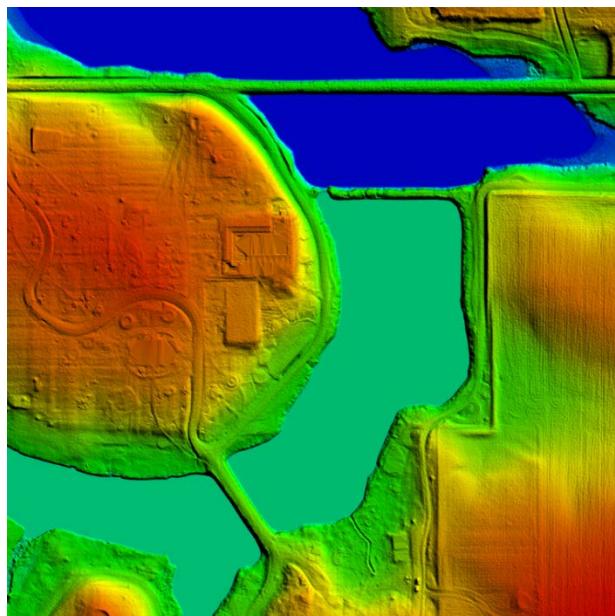


Figure 16 – IL\_West Central County project bare earth DEM

## DEM VERTICAL ACCURACY RESULTS

The same 162 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 9; 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	91	0.122	
VVA	71		0.163

Table 9— DEM vertical accuracy summary

DEM datasets were tested to meet ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014) for a 0.33 ft (10 cm) RMSEz Vertical Accuracy Class. Actual NVA accuracy was found to be RMSEz = 0.185 ft (0.062 m) with a 0.363 ft (0.122 m) accuracy at 95 % confidence level. Actual VVA accuracy was found to be RMSEz = 0.279 ft (0.085 m) with a 0.534 ft (0.163 m) accuracy at the 95<sup>th</sup> percentile.

Based on the vertical accuracy testing conducted by ASI, the DEM dataset for the IL\_West Central project satisfies the project's pre-defined vertical accuracy criteria.

## APPENDIX A: LIST OF DELIVERED LAS FILES

2085_1157	2087_1225	2089_1195
2085_1159	2087_1227	2089_1197
2085_1161	2087_1229	2089_1199
2085_1163	2087_1231	2089_1201
2085_1165	2087_1233	2089_1203
2085_1167	2087_1235	2089_1205
2085_1169	2087_1237	2089_1207
2085_1171	2087_1239	2089_1209
2085_1173	2087_1241	2089_1211
2085_1175	2087_1243	2089_1213
2085_1177	2087_1245	2089_1215
2085_1179	2087_1247	2089_1217
2085_1181	2087_1249	2089_1219
2085_1183	2087_1251	2089_1221
2085_1185	2087_1253	2089_1223
2087_1157	2087_1255	2089_1225
2087_1159	2087_1257	2089_1227
2087_1161	2087_1259	2089_1229
2087_1163	2087_1261	2089_1231
2087_1165	2087_1263	2089_1233
2087_1167	2087_1265	2089_1235
2087_1169	2087_1267	2089_1237
2087_1171	2087_1269	2089_1239
2087_1173	2087_1271	2089_1241
2087_1175	2087_1273	2089_1243
2087_1177	2087_1275	2089_1245
2087_1179	2087_1277	2089_1247
2087_1181	2087_1279	2089_1249
2087_1183	2087_1281	2089_1251
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2087_1187	2089_1157	2089_1255
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2087_1191	2089_1161	2089_1259
2087_1193	2089_1163	2089_1261
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2087_1197	2089_1167	2089_1265
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2087_1203	2089_1173	2089_1271
2087_1205	2089_1175	2089_1273
2087_1207	2089_1177	2089_1275
2087_1209	2089_1179	2089_1277
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2087_1215	2089_1185	2089_1283
2087_1217	2089_1187	2089_1285
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2087_1221	2089_1191	2089_1289
2087_1223	2089_1193	2089_1291

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2089_1301	2091_1239	2093_1177
2089_1303	2091_1241	2093_1179
2089_1305	2091_1243	2093_1181
2089_1307	2091_1245	2093_1183
2089_1309	2091_1247	2093_1185
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2091_1163	2091_1265	2093_1203
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2091_1169	2091_1271	2093_1209
2091_1171	2091_1273	2093_1211
2091_1173	2091_1275	2093_1213
2091_1175	2091_1277	2093_1215
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2091_1183	2091_1285	2093_1223
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2091_1189	2091_1291	2093_1229
2091_1191	2091_1293	2093_1231
2091_1193	2091_1295	2093_1233
2091_1195	2091_1297	2093_1235
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2091_1209	2091_1311	2093_1249
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2113_1173	2113_1275	2115_1215
2113_1175	2113_1277	2115_1217
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2113_1187	2113_1289	2115_1229
2113_1189	2113_1291	2115_1231
2113_1191	2113_1293	2115_1233
2113_1193	2113_1295	2115_1235
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2525_1175	2529_1161	2533_1147
2525_1177	2529_1163	2533_1149
2525_1179	2529_1165	2533_1151
2525_1181	2529_1167	2533_1153
2525_1183	2529_1169	2533_1155
2525_1185	2529_1171	2533_1157
2527_1129	2529_1173	2533_1159
2527_1131	2529_1175	2533_1161
2527_1133	2529_1177	2533_1163
2527_1135	2529_1179	2533_1165
2527_1137	2529_1181	2533_1167
2527_1139	2529_1183	2533_1169
2527_1141	2529_1185	2533_1171
2527_1143	2531_1129	2533_1173
2527_1145	2531_1131	2533_1175
2527_1147	2531_1133	2533_1177
2527_1149	2531_1135	2533_1179
2527_1151	2531_1137	2533_1181
2527_1153	2531_1139	2533_1183
2527_1155	2531_1141	2533_1185
2527_1157	2531_1143	2535_1131
2527_1159	2531_1145	2535_1133
2527_1161	2531_1147	2535_1135
2527_1163	2531_1149	2535_1137
2527_1165	2531_1151	2535_1139
2527_1167	2531_1153	2535_1141
2527_1169	2531_1155	2535_1143

2535_1145	2539_1137	2541_1185
2535_1147	2539_1139	2543_1139
2535_1149	2539_1141	2543_1141
2535_1151	2539_1143	2543_1143
2535_1153	2539_1145	2543_1145
2535_1155	2539_1147	2543_1147
2535_1157	2539_1149	2543_1149
2535_1159	2539_1151	2543_1151
2535_1161	2539_1153	2543_1153
2535_1163	2539_1155	2543_1155
2535_1165	2539_1157	2543_1157
2535_1167	2539_1159	2543_1159
2535_1169	2539_1161	2543_1161
2535_1171	2539_1163	2543_1163
2535_1173	2539_1165	2543_1165
2535_1175	2539_1167	2543_1167
2535_1177	2539_1169	2543_1169
2535_1179	2539_1171	2543_1171
2535_1181	2539_1173	2543_1173
2535_1183	2539_1175	2543_1175
2535_1185	2539_1177	2543_1177
2537_1131	2539_1179	2543_1179
2537_1133	2539_1181	2543_1181
2537_1135	2539_1183	2543_1183
2537_1137	2539_1185	2543_1185
2537_1139	2541_1133	2545_1139
2537_1141	2541_1135	2545_1141
2537_1143	2541_1137	2545_1143
2537_1145	2541_1139	2545_1145
2537_1147	2541_1141	2545_1147
2537_1149	2541_1143	2545_1149
2537_1151	2541_1145	2545_1151
2537_1153	2541_1147	2545_1153
2537_1155	2541_1149	2545_1155
2537_1157	2541_1151	2545_1157
2537_1159	2541_1153	2545_1159
2537_1161	2541_1155	2545_1161
2537_1163	2541_1157	2545_1163
2537_1165	2541_1159	2545_1165
2537_1167	2541_1161	2545_1167
2537_1169	2541_1163	2545_1169
2537_1171	2541_1165	2545_1171
2537_1173	2541_1167	2545_1173
2537_1175	2541_1169	2545_1175
2537_1177	2541_1171	2545_1177
2537_1179	2541_1173	2545_1179
2537_1181	2541_1175	2545_1181
2537_1183	2541_1177	2545_1183
2537_1185	2541_1179	2545_1185
2539_1133	2541_1181	2547_1141
2539_1135	2541_1183	2547_1143

2547_1145	2551_1159	2555_1183
2547_1147	2551_1161	2555_1185
2547_1149	2551_1163	2557_1149
2547_1151	2551_1165	2557_1151
2547_1153	2551_1167	2557_1153
2547_1155	2551_1169	2557_1155
2547_1157	2551_1171	2557_1157
2547_1159	2551_1173	2557_1159
2547_1161	2551_1175	2557_1161
2547_1163	2551_1177	2557_1163
2547_1165	2551_1179	2557_1165
2547_1167	2551_1181	2557_1167
2547_1169	2551_1183	2557_1169
2547_1171	2551_1185	2557_1171
2547_1173	2553_1145	2557_1173
2547_1175	2553_1147	2557_1175
2547_1177	2553_1149	2557_1177
2547_1179	2553_1151	2557_1179
2547_1181	2553_1153	2557_1181
2547_1183	2553_1155	2557_1183
2547_1185	2553_1157	2557_1185
2549_1143	2553_1159	2559_1147
2549_1145	2553_1161	2559_1149
2549_1147	2553_1163	2559_1151
2549_1149	2553_1165	2559_1153
2549_1151	2553_1167	2559_1155
2549_1153	2553_1169	2559_1157
2549_1155	2553_1171	2559_1159
2549_1157	2553_1173	2559_1161
2549_1159	2553_1175	2559_1163
2549_1161	2553_1177	2559_1165
2549_1163	2553_1179	2559_1167
2549_1165	2553_1181	2559_1169
2549_1167	2553_1183	2559_1171
2549_1169	2553_1185	2559_1173
2549_1171	2555_1151	2559_1175
2549_1173	2555_1153	2559_1177
2549_1175	2555_1155	2559_1179
2549_1177	2555_1157	2559_1181
2549_1179	2555_1159	2559_1183
2549_1181	2555_1161	2559_1185
2549_1183	2555_1163	2561_1147
2549_1185	2555_1165	2561_1149
2551_1143	2555_1167	2561_1151
2551_1145	2555_1169	2561_1153
2551_1147	2555_1171	2561_1155
2551_1149	2555_1173	2561_1157
2551_1151	2555_1175	2561_1159
2551_1153	2555_1177	2561_1161
2551_1155	2555_1179	2561_1163
2551_1157	2555_1181	2561_1165

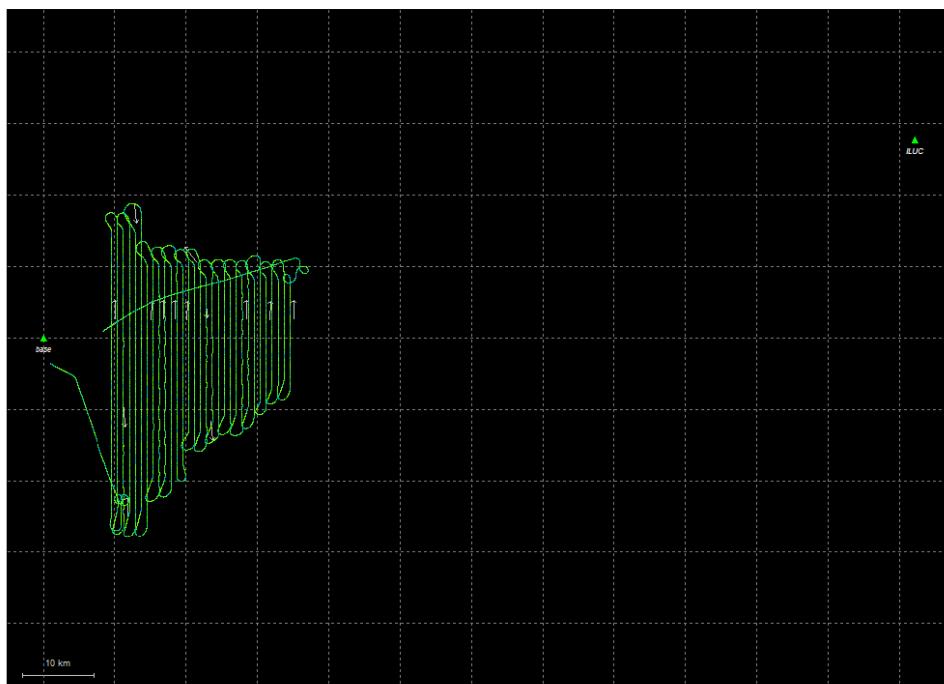
2561_1167	2563_1157
2561_1169	2563_1159
2561_1171	2563_1161
2561_1173	2563_1163
2561_1175	2563_1165
2561_1177	2563_1167
2561_1179	2563_1169
2561_1181	2563_1171
2561_1183	2563_1173
2561_1185	2563_1175
2563_1147	2563_1177
2563_1149	2563_1179
2563_1151	2563_1181
2563_1153	2563_1183
2563_1155	2563_1185

## APPENDIX B: MISSION GPS AND IMU PROCESSING REPORT

## Output Results for W\_Central\_3DEP\_20171203\_192639

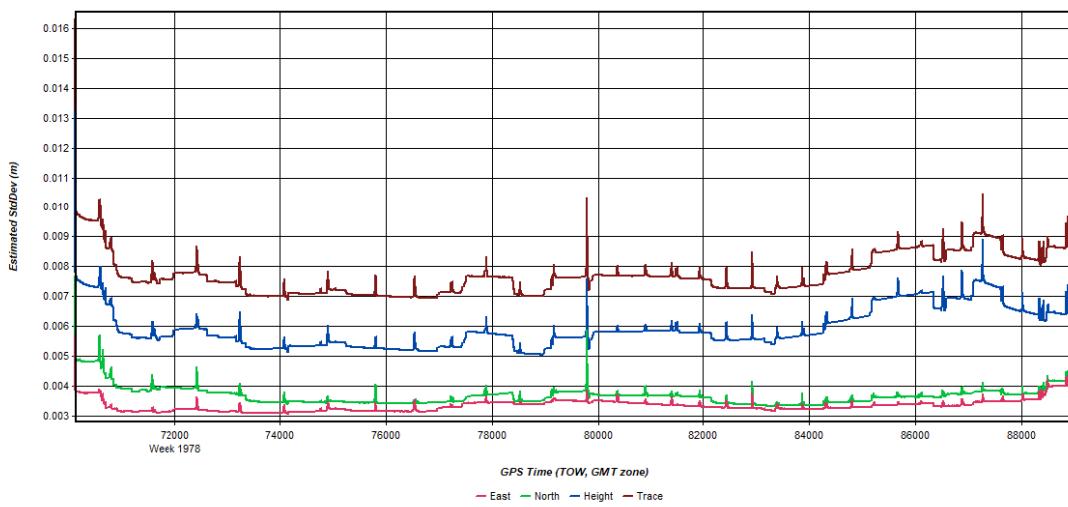
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171203\_192639 | by Unknown | on 12/12/2017 | at 12:04:26

Figure 2: W\_Central\_3DEP\_20171203\_192639 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171203\_192639 | by Unknown | on 12/12/2017 | at 12:04:26

Figure 3: W\_Central\_3DEP\_20171203\_192639 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

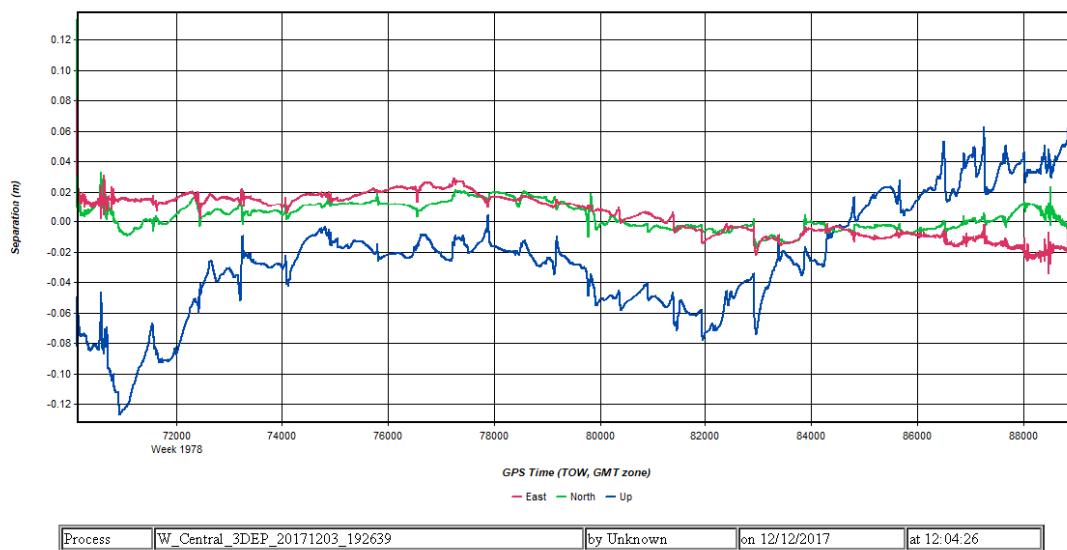
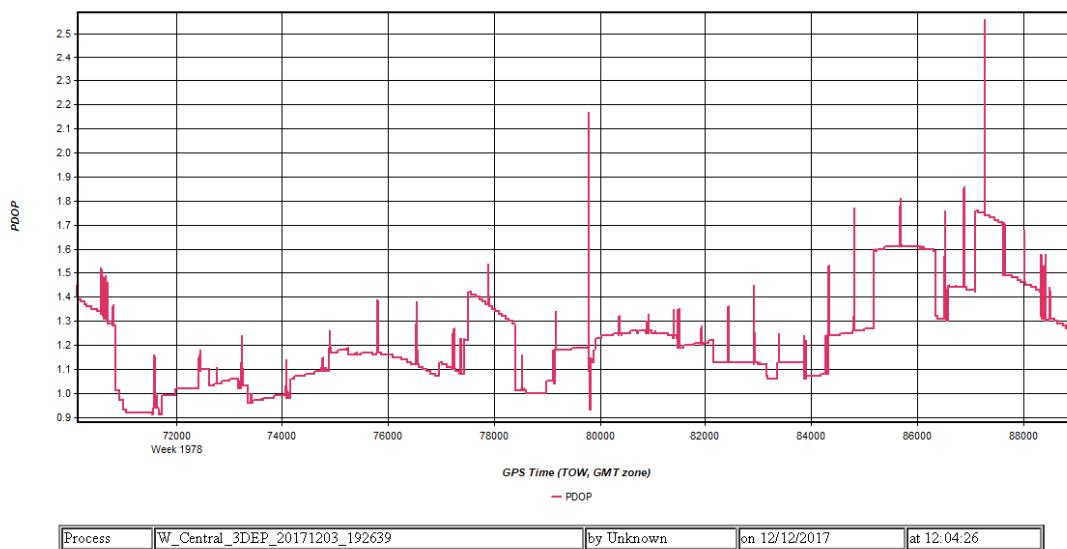


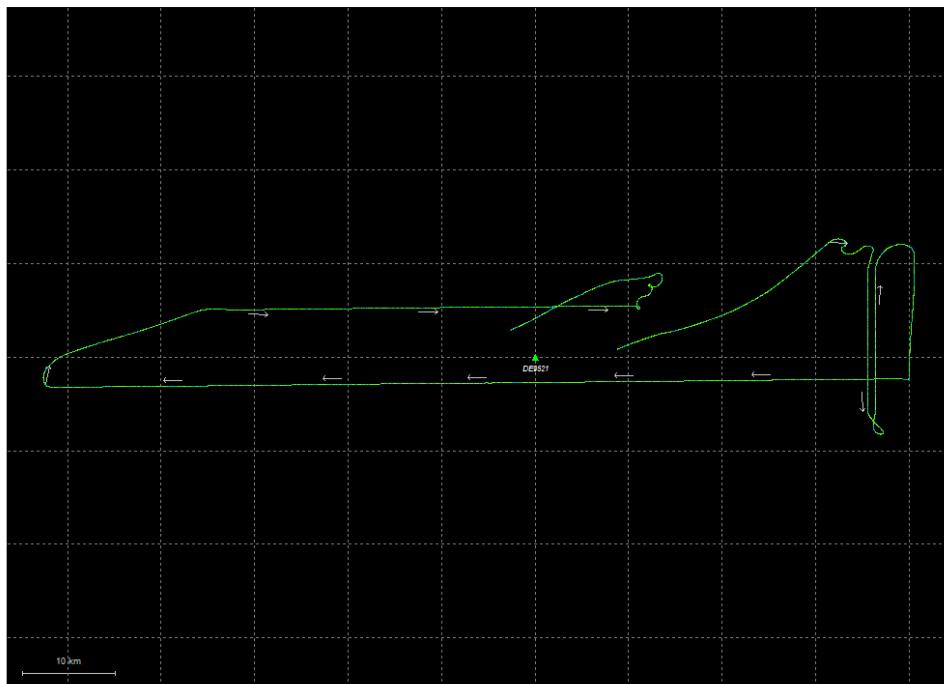
Figure 4: W\_Central\_3DEP\_20171203\_192639 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171204\_154138

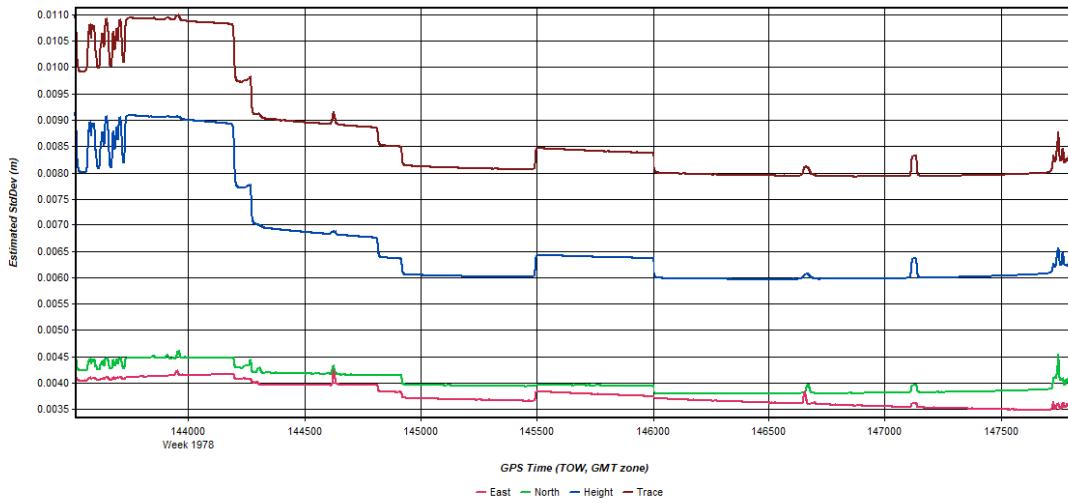
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171204\_154138 | by Unknown | on 12/12/2017 | at 13:38:53

Figure 2: W\_Central\_3DEP\_20171204\_154138 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171204\_154138 | by Unknown | on 12/12/2017 | at 13:38:53

Figure 3: W\_Central\_3DEP\_20171204\_154138 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

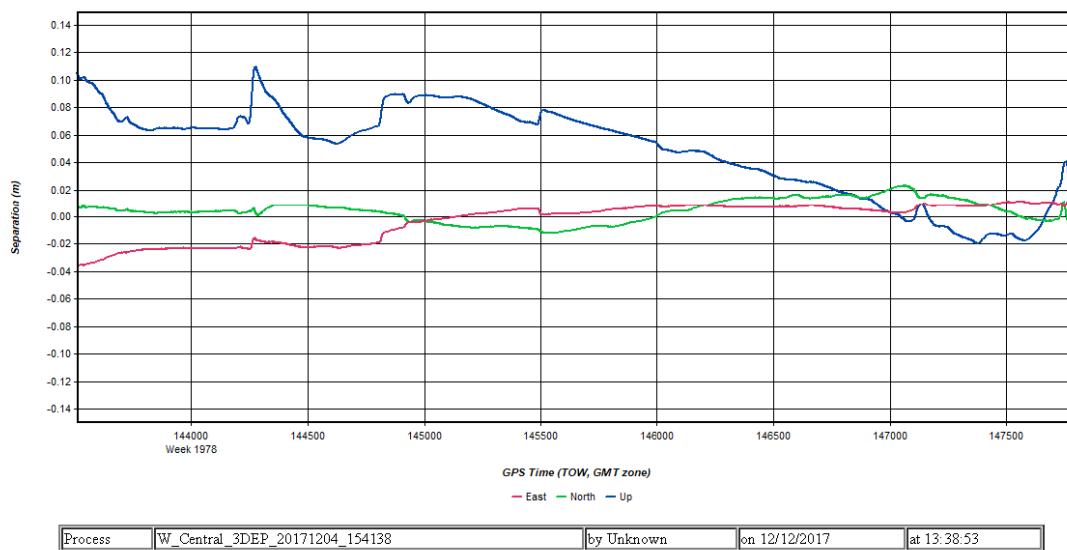
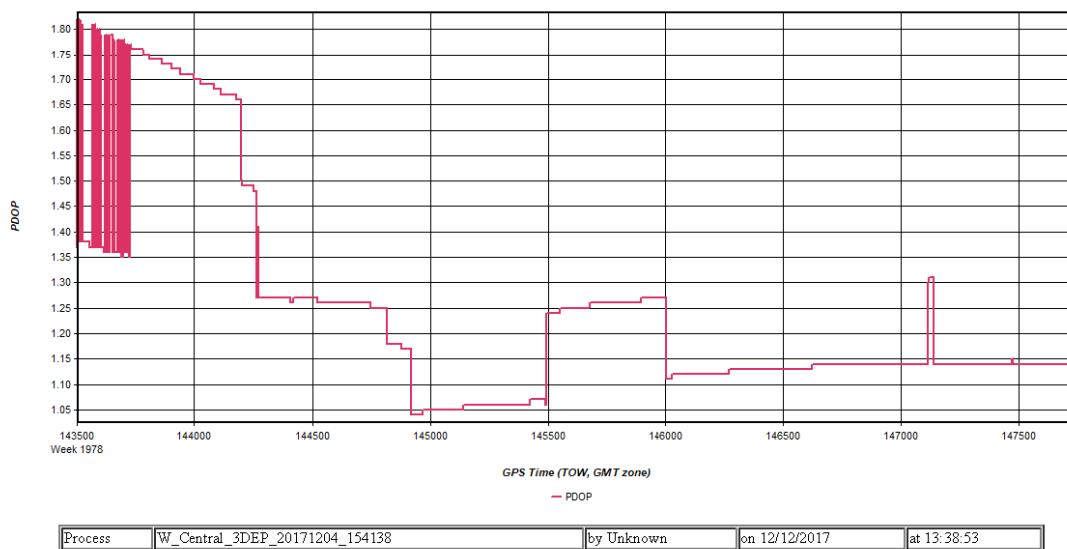


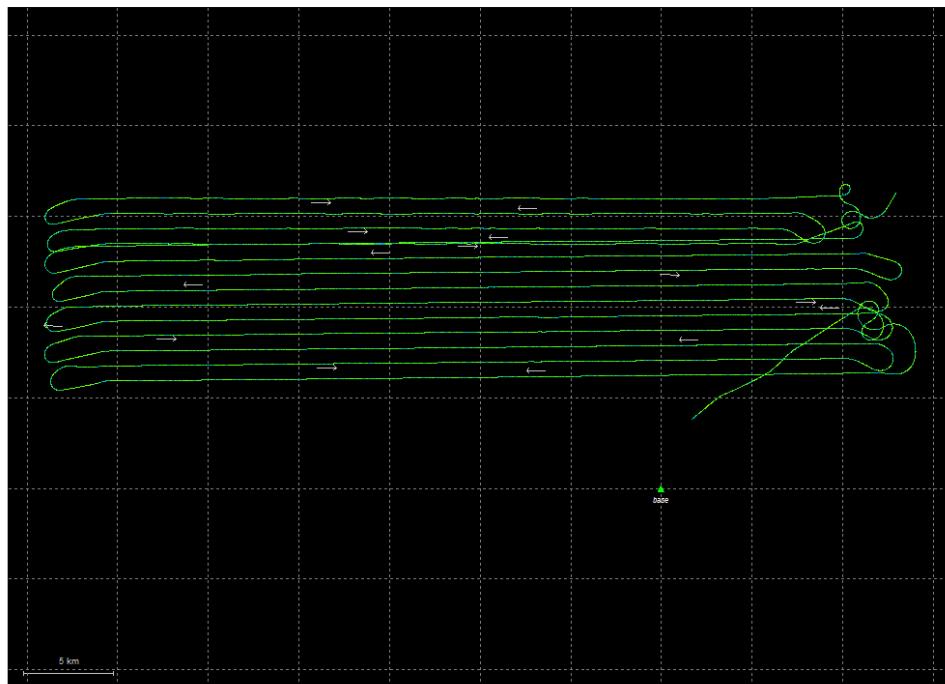
Figure 4: W\_Central\_3DEP\_20171204\_154138 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_IL\_3DEP\_20171207\_180506

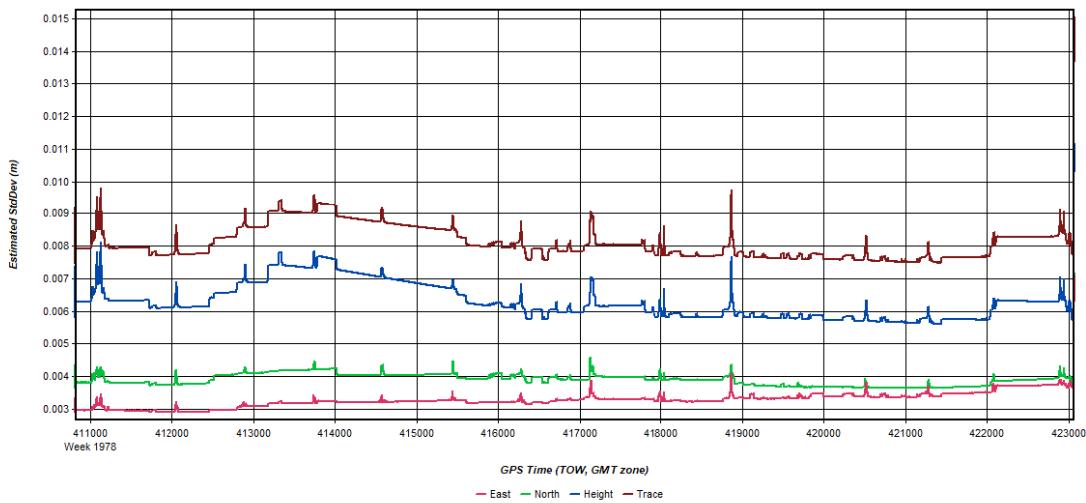
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process	W_Central_IL_3DEP_20171207_180506	by Unknown	on 12/13/2017	at 10:46:27
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Figure 2: W\_Central\_IL\_3DEP\_20171207\_180506 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process	W_Central_IL_3DEP_20171207_180506	by Unknown	on 12/13/2017	at 10:46:27
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Figure 3: W\_Central\_IL\_3DEP\_20171207\_180506 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

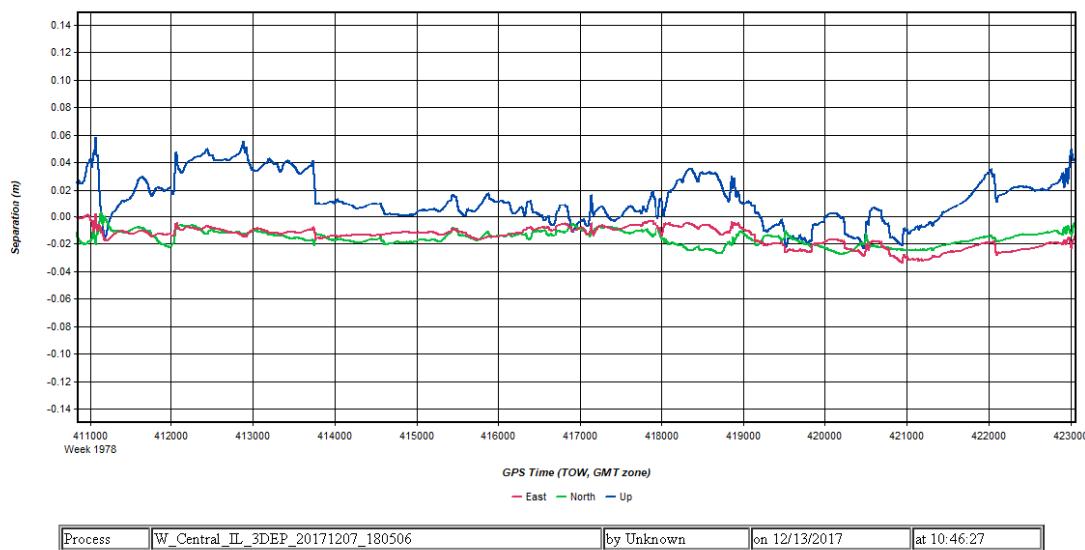
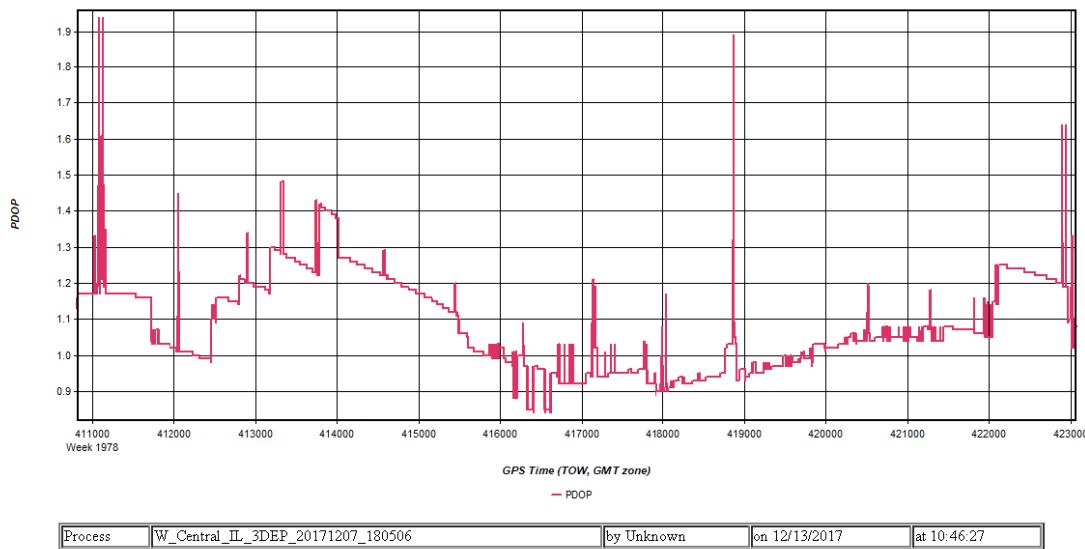


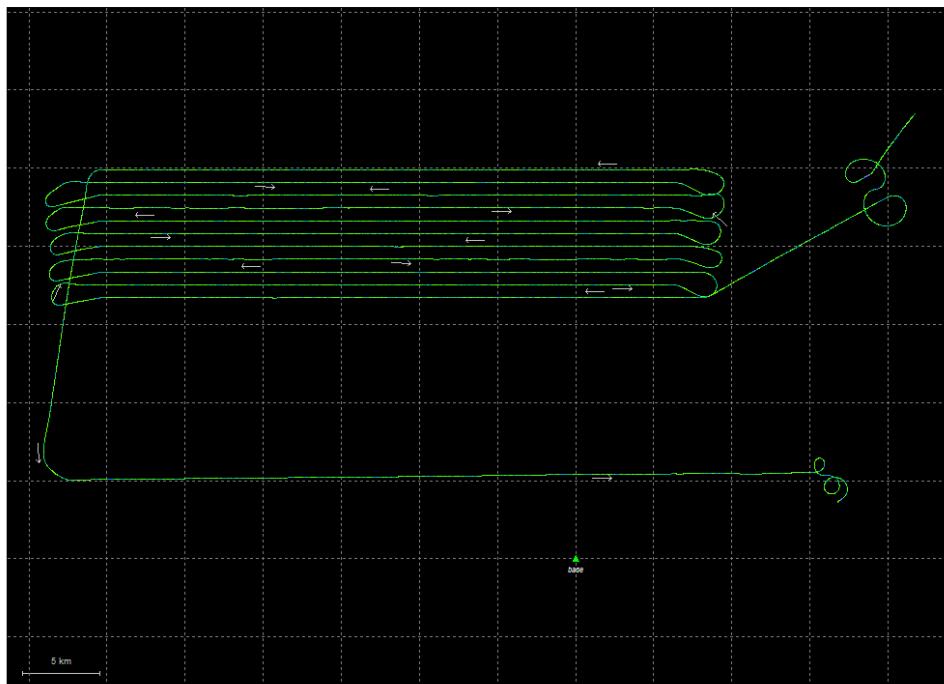
Figure 4: W\_Central\_IL\_3DEP\_20171207\_180506 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171207\_220234

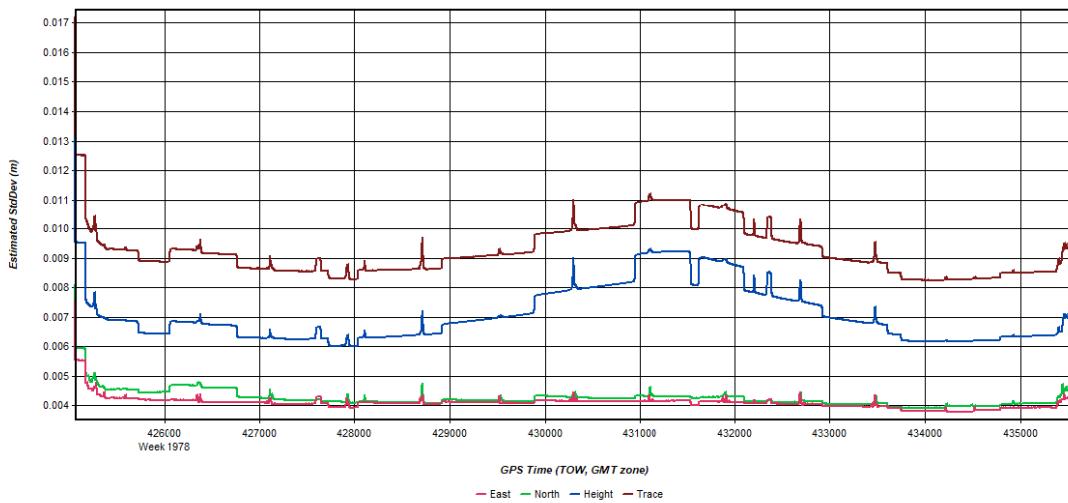
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171207\_220234 | by Unknown | on 12/13/2017 | at 11:24:08

Figure 2: W\_Central\_3DEP\_20171207\_220234 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171207\_220234 | by Unknown | on 12/13/2017 | at 11:24:08

Figure 3: W\_Central\_3DEP\_20171207\_220234 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

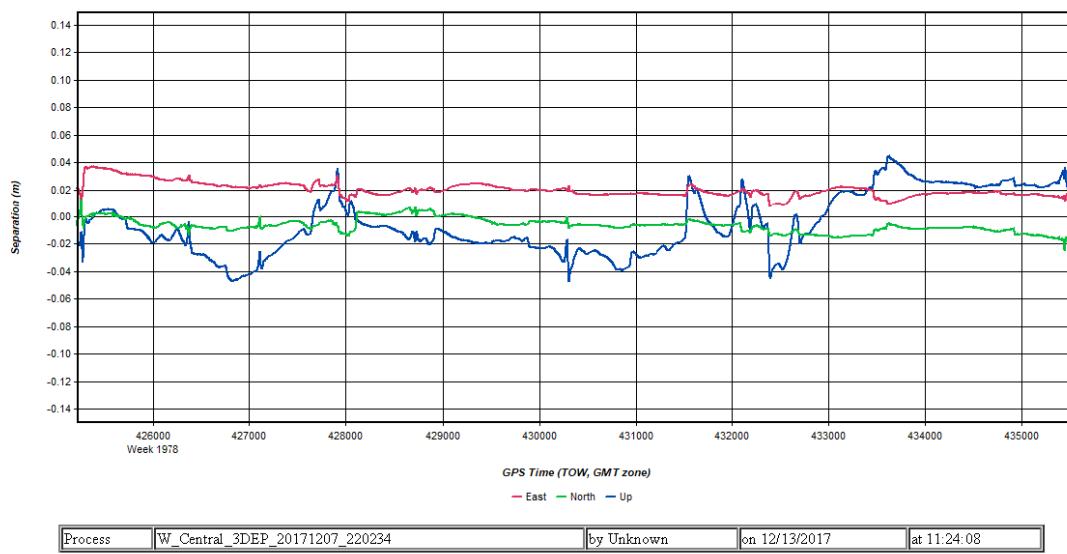
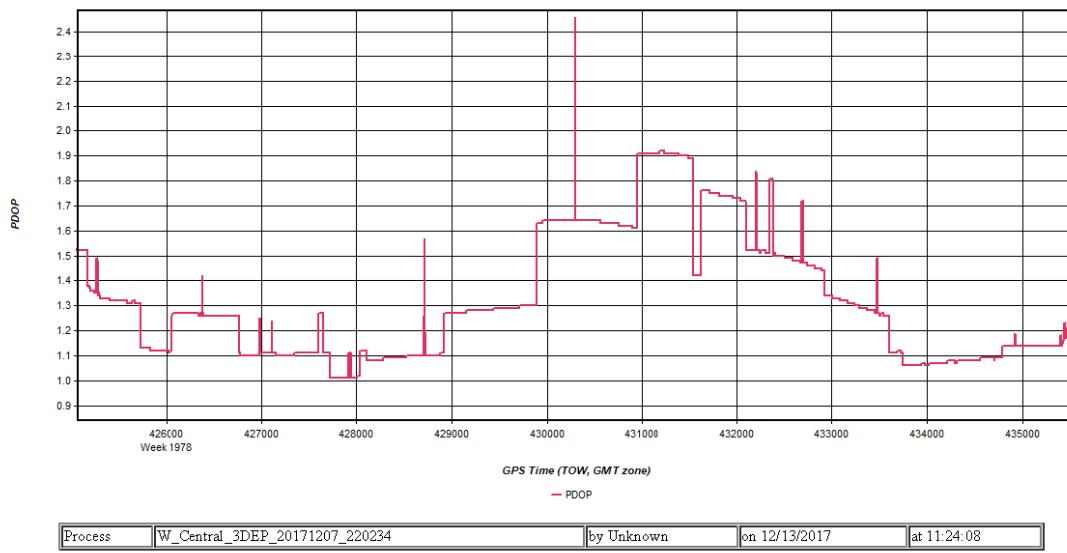


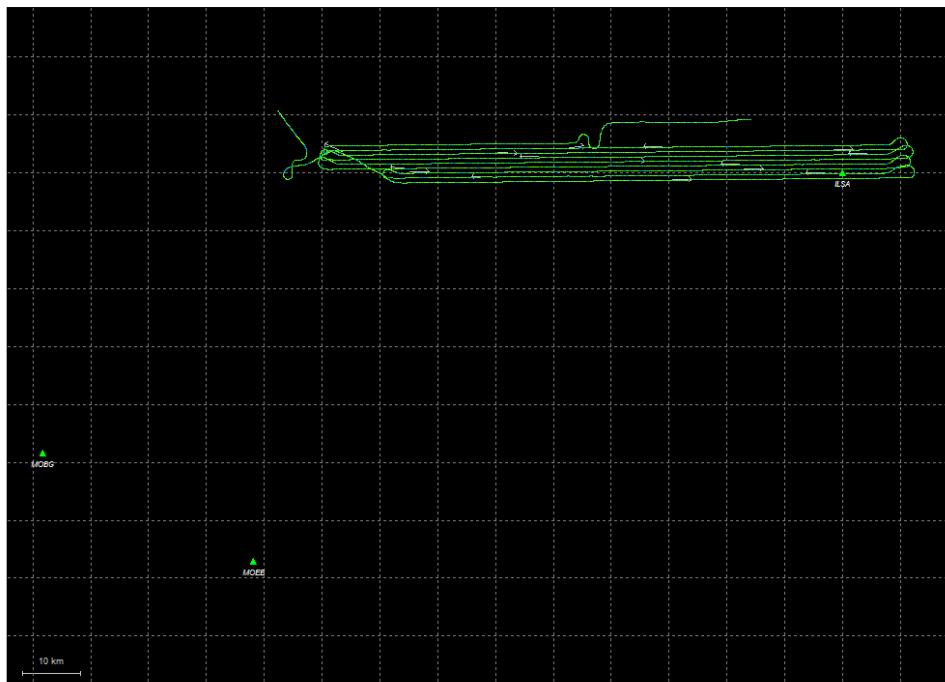
Figure 4: W\_Central\_3DEP\_20171207\_220234 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171208\_083824

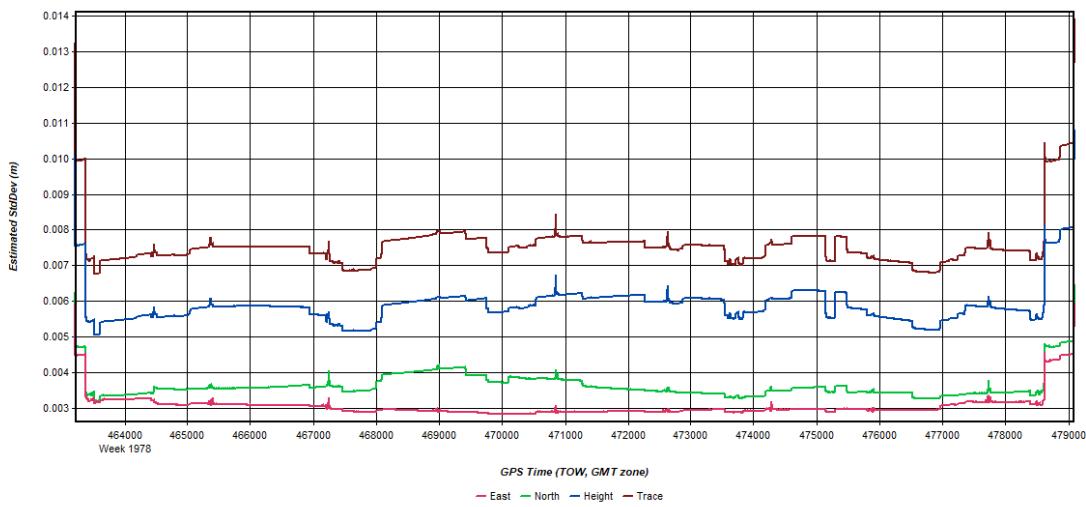
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process	W_Central_3DEP_20171208_083824	by Unknown	on 12/19/2017	at 15:48:14
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Figure 2: W\_Central\_3DEP\_20171208\_083824 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process	W_Central_3DEP_20171208_083824	by Unknown	on 12/19/2017	at 15:48:14
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Figure 3: W\_Central\_3DEP\_20171208\_083824 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

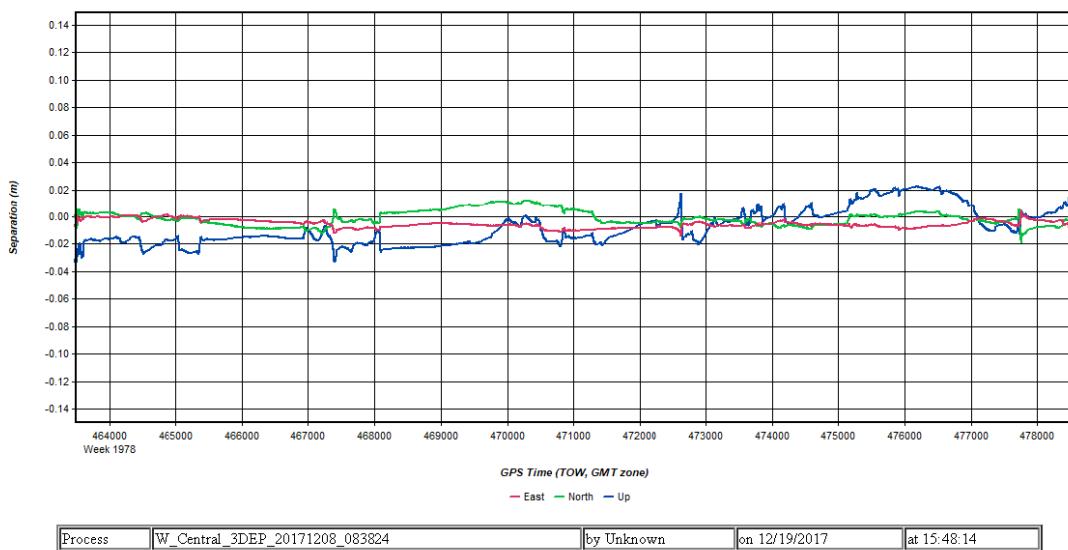
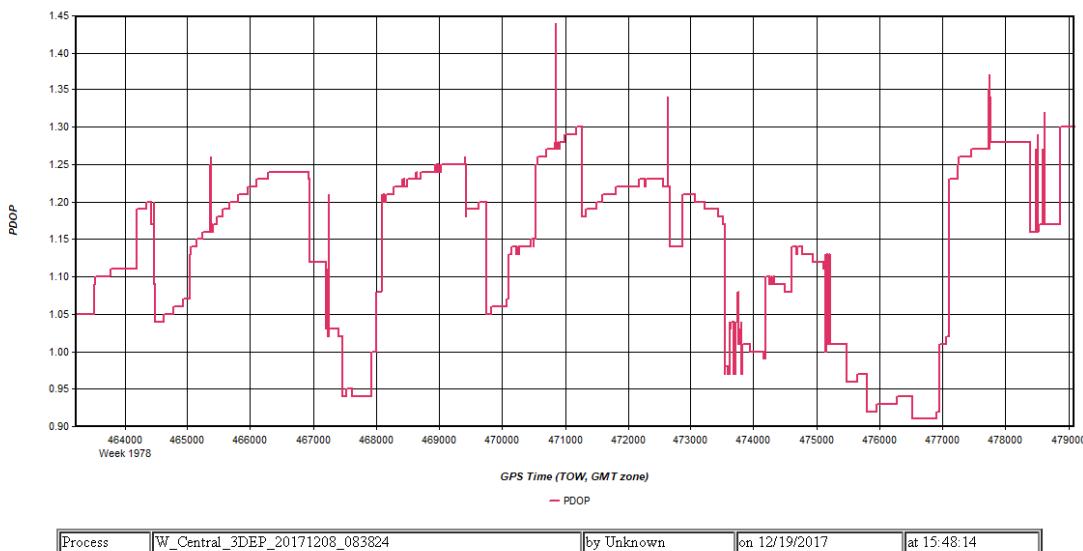


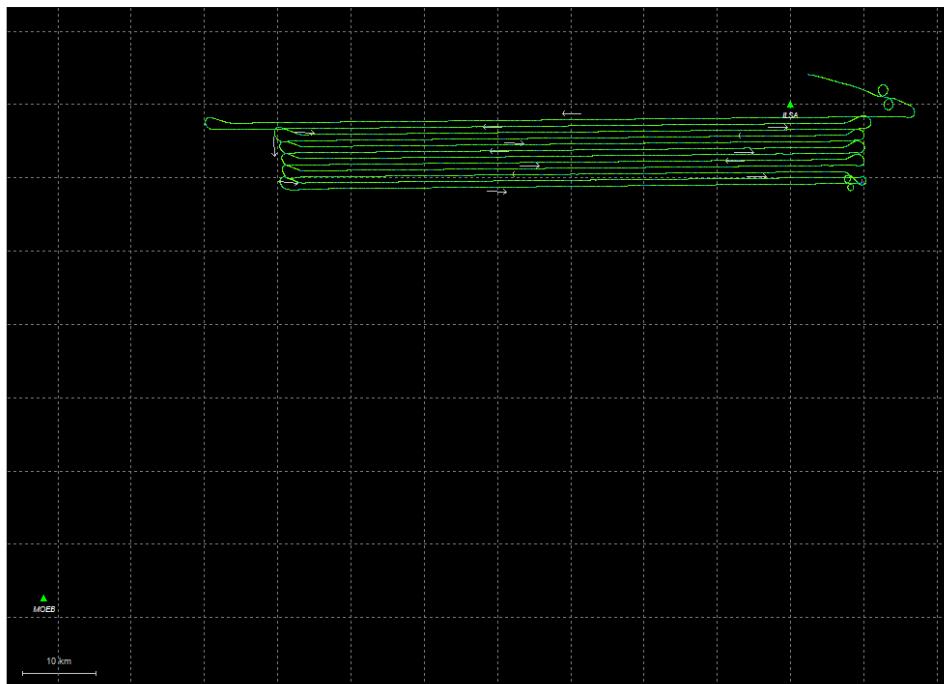
Figure 4: W\_Central\_3DEP\_20171208\_083824 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171208\_144832

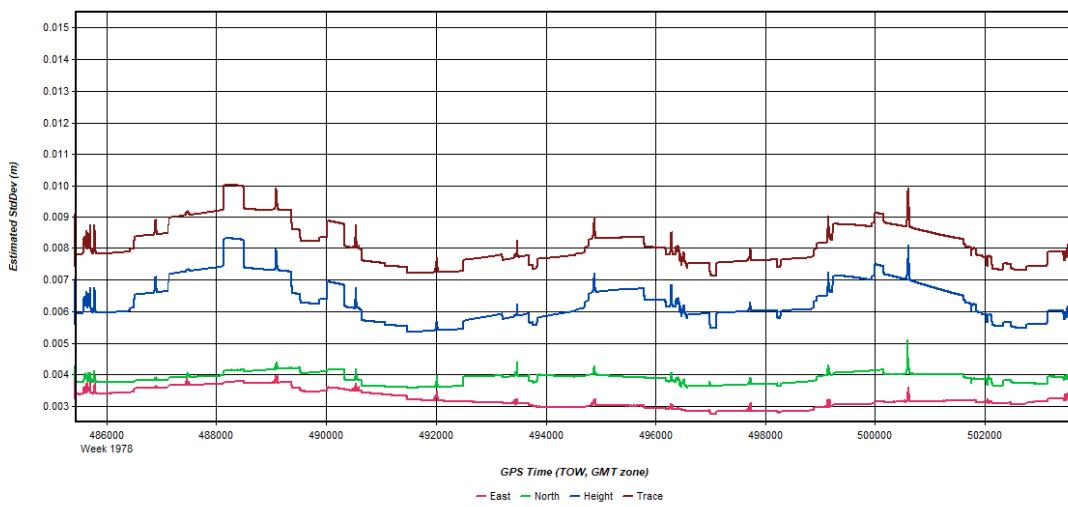
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process	W_Central_3DEP_20171208_144832	by Unknown	on 12/19/2017	at 16:27:28
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Figure 2: W\_Central\_3DEP\_20171208\_144832 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process	W_Central_3DEP_20171208_144832	by Unknown	on 12/19/2017	at 16:27:28
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Figure 3: W\_Central\_3DEP\_20171208\_144832 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

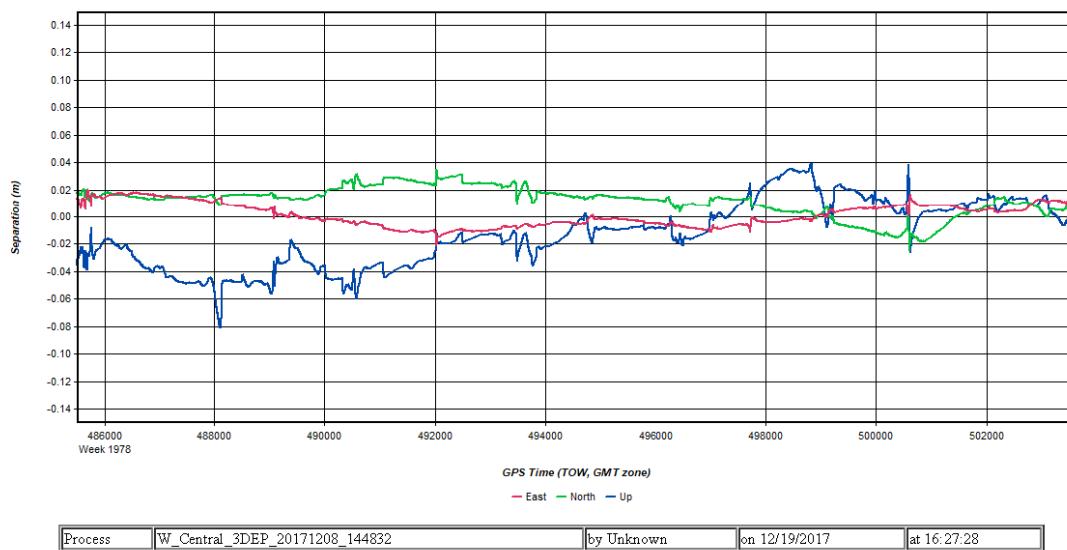
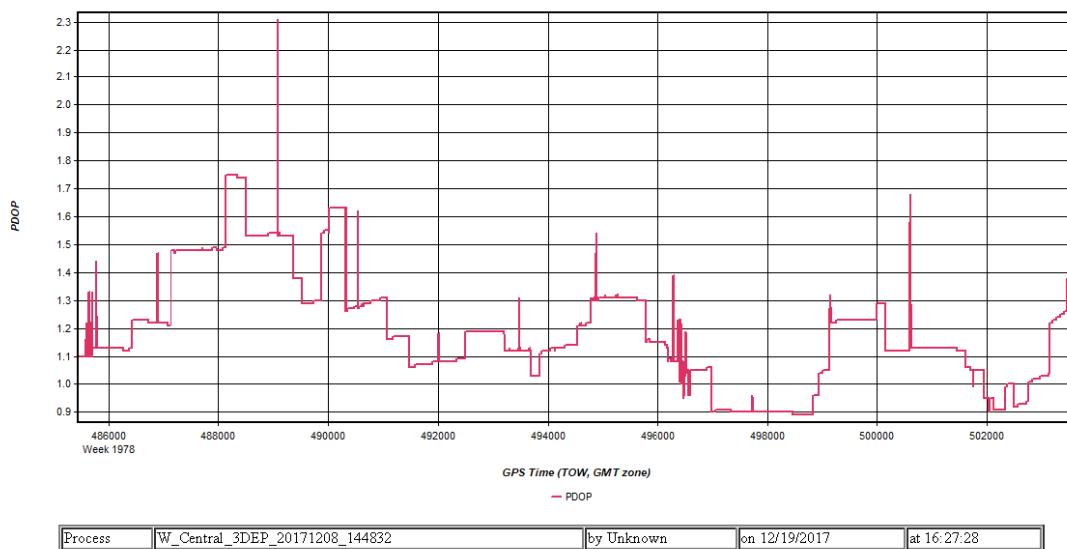


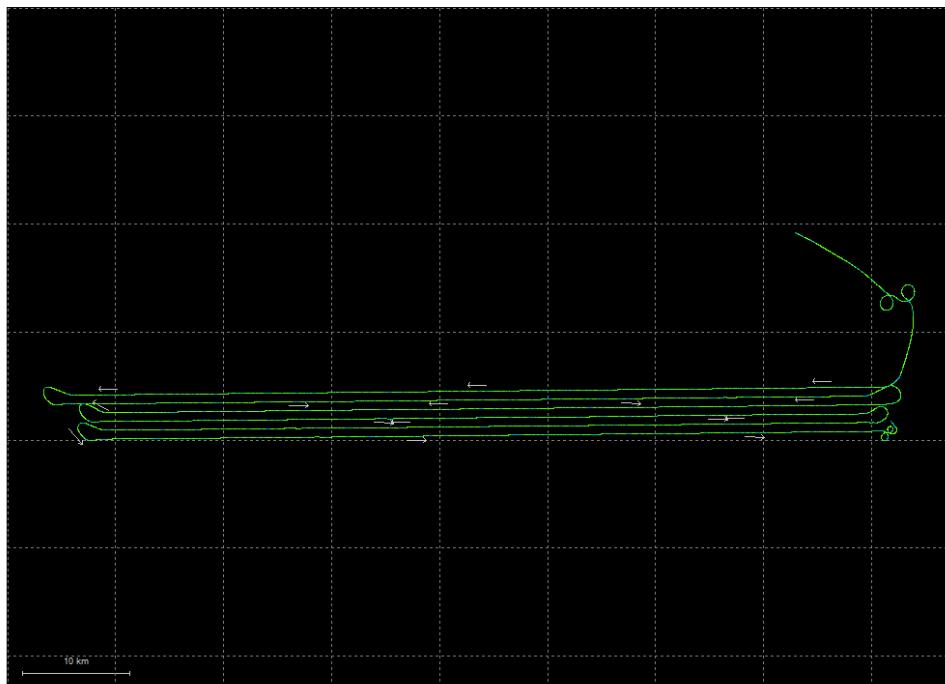
Figure 4: W\_Central\_3DEP\_20171208\_144832 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171208\_203957

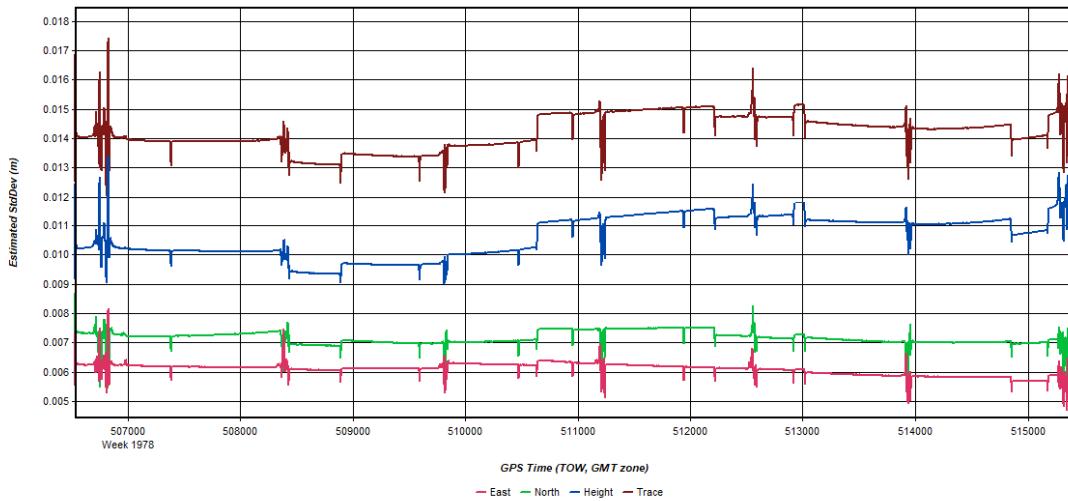
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171208\_203957 | by Unknown | on 12/20/2017 | at 13:57:15

Figure 2: W\_Central\_3DEP\_20171208\_203957 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171208\_203957 | by Unknown | on 12/20/2017 | at 13:57:15

Figure 3: W\_Central\_3DEP\_20171208\_203957 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

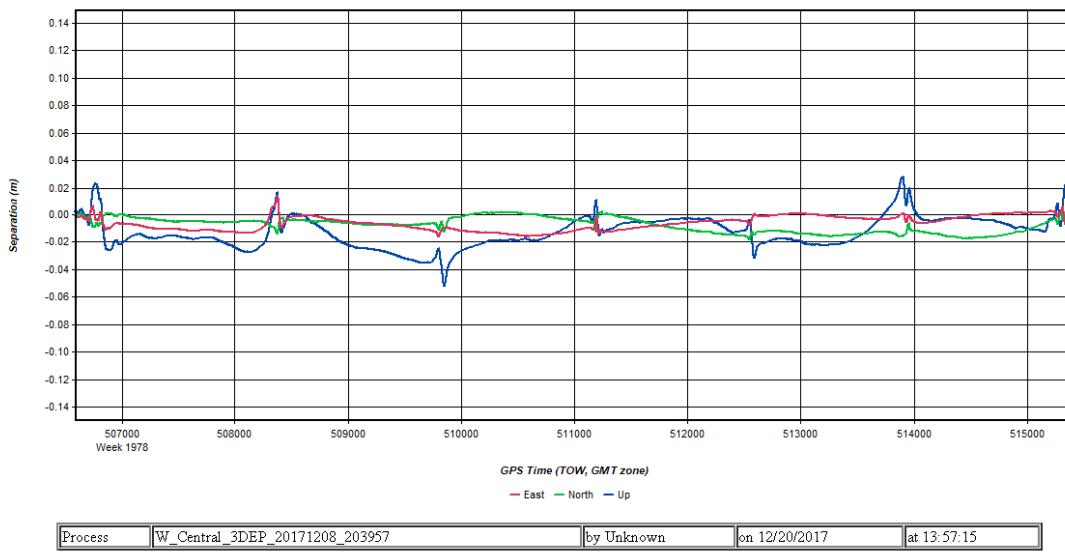
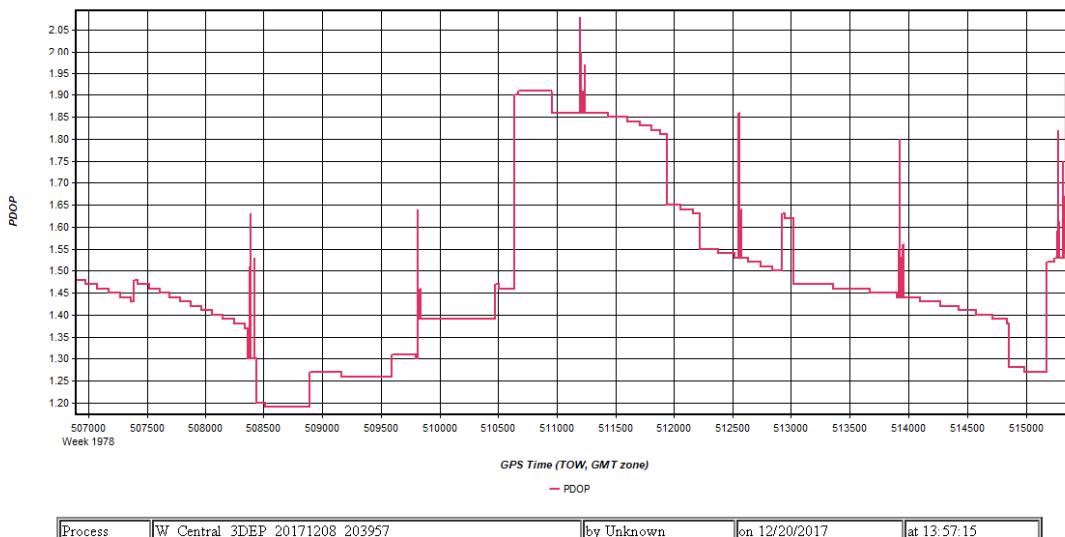


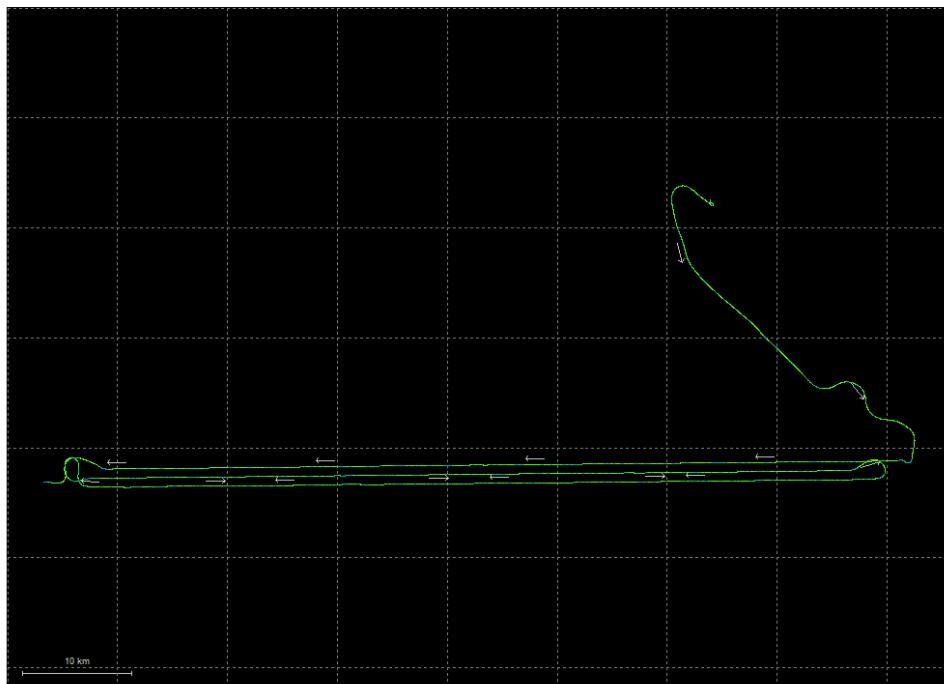
Figure 4: W\_Central\_3DEP\_20171208\_203957 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171209\_022008

Inertial Explorer Version 8.60.6717  
10/23/2018

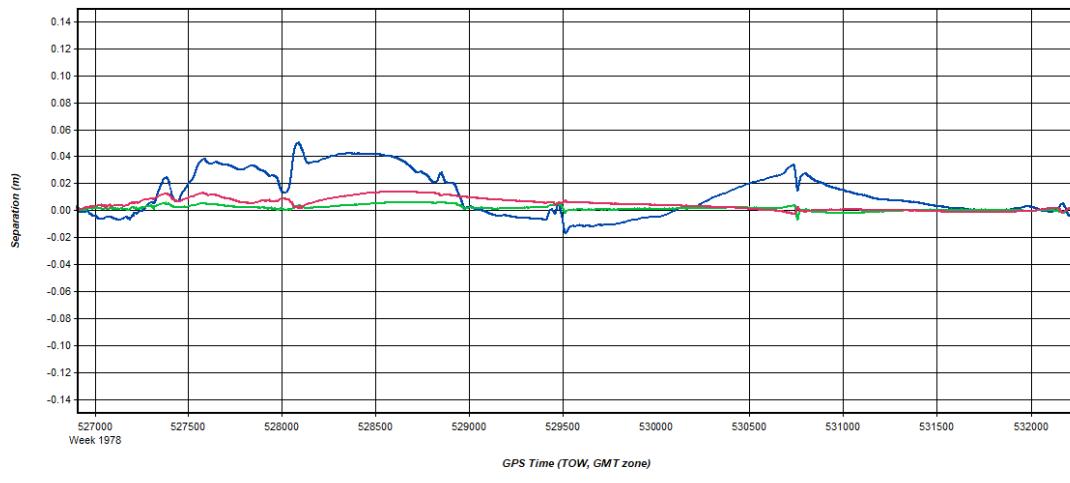
Figure 1: Smoothed TC Combined - Map



Process	W_Central_3DEP_20171209_022008	by Unknown	on 12/21/2017	at 11:05:56
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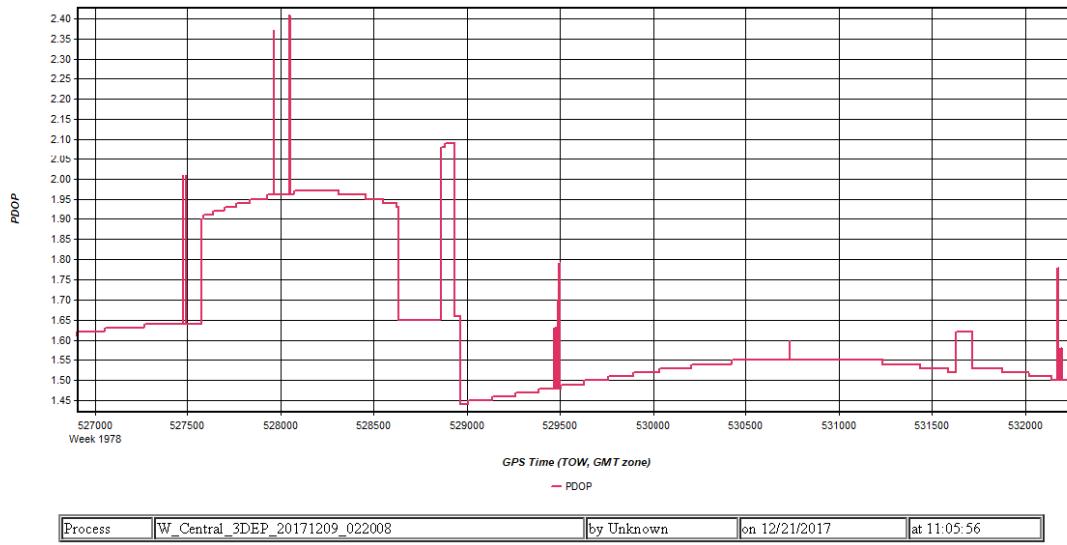
Object W\_Central\_3DEP\_20171209\_022008 [Smoothed TC Combined] - Estimated Position Accuracy Plot failed--NULL bitmap handle

Figure 2: W\_Central\_3DEP\_20171209\_022008 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



Process	W_Central_3DEP_20171209_022008	by Unknown	on 12/21/2017	at 11:05:56
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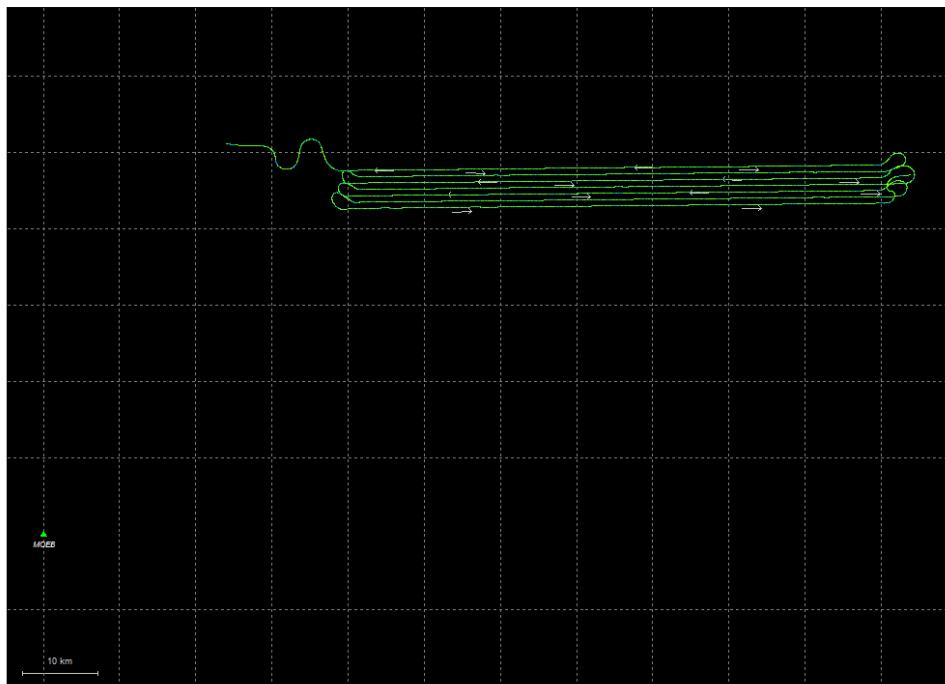
Figure 3: W\_Central\_3DEP\_20171209\_022008 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171209\_035603

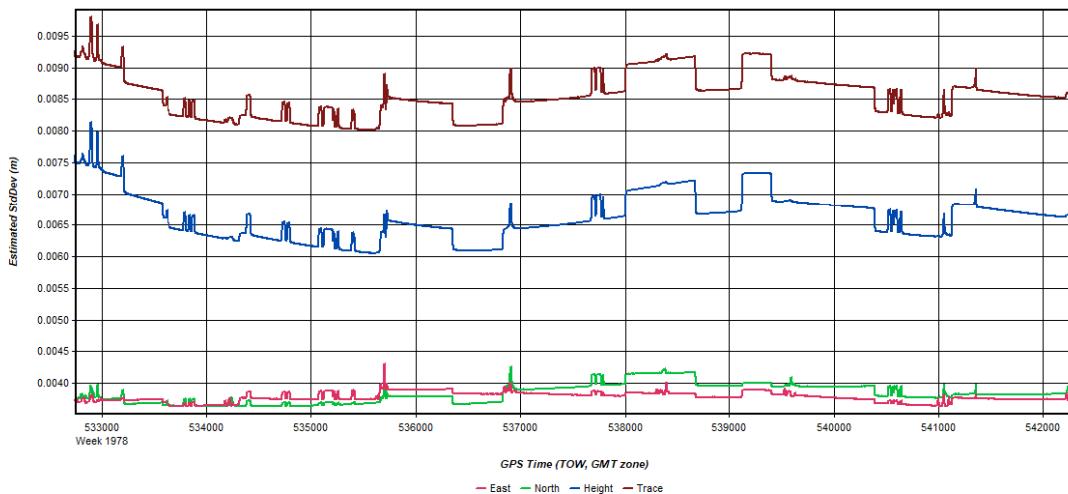
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171209\_035603 | by Unknown | on 12/21/2017 | at 11:54:39

Figure 2: W\_Central\_3DEP\_20171209\_035603 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171209\_035603 | by Unknown | on 12/21/2017 | at 11:54:39

Figure 3: W\_Central\_3DEP\_20171209\_035603 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

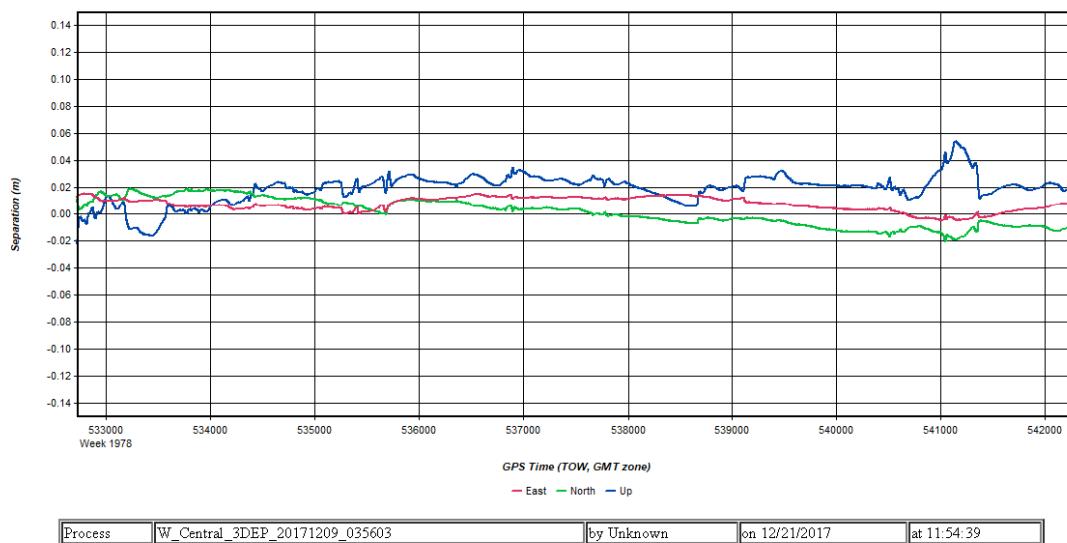
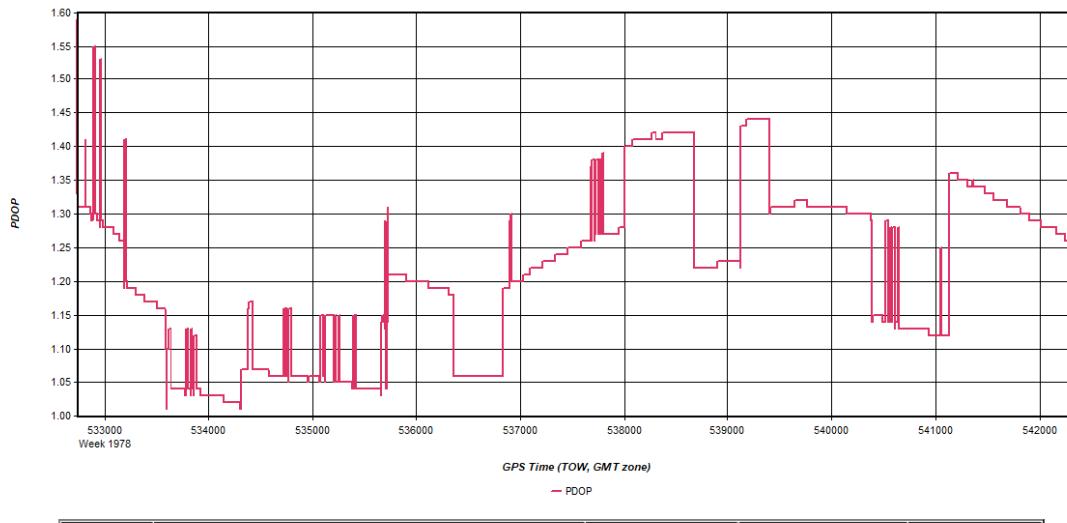


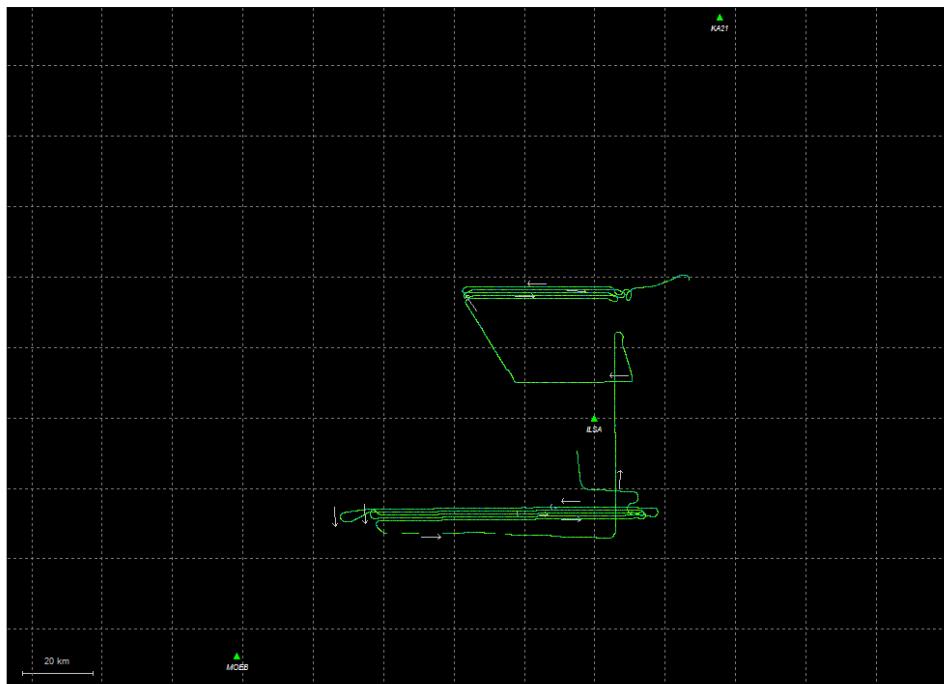
Figure 4: W\_Central\_3DEP\_20171209\_035603 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171210\_020503

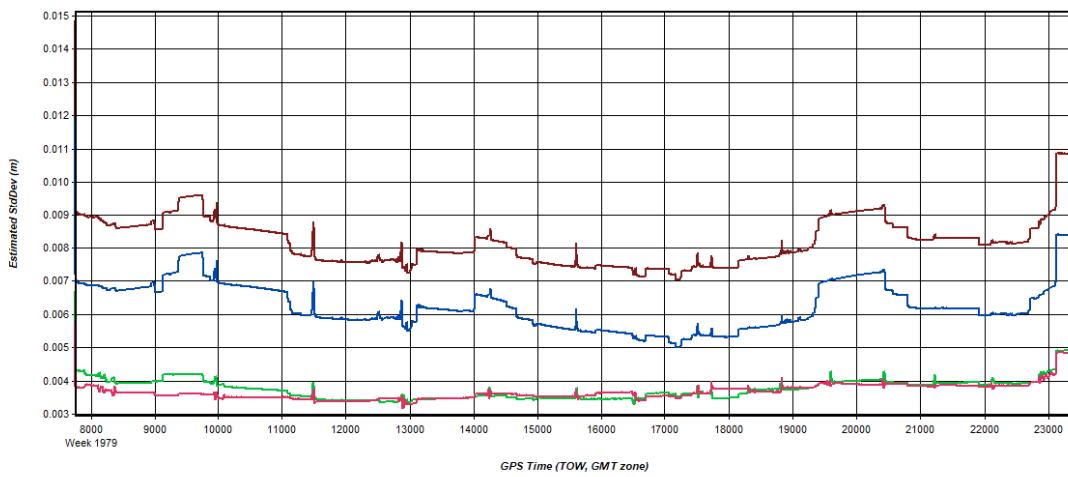
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171210\_020503 | by Unknown | on 12/13/2017 | at 15:31:11

Figure 2: W\_Central\_3DEP\_20171210\_020503 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171210\_020503 | by Unknown | on 12/13/2017 | at 15:31:11

Figure 3: W\_Central\_3DEP\_20171210\_020503 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

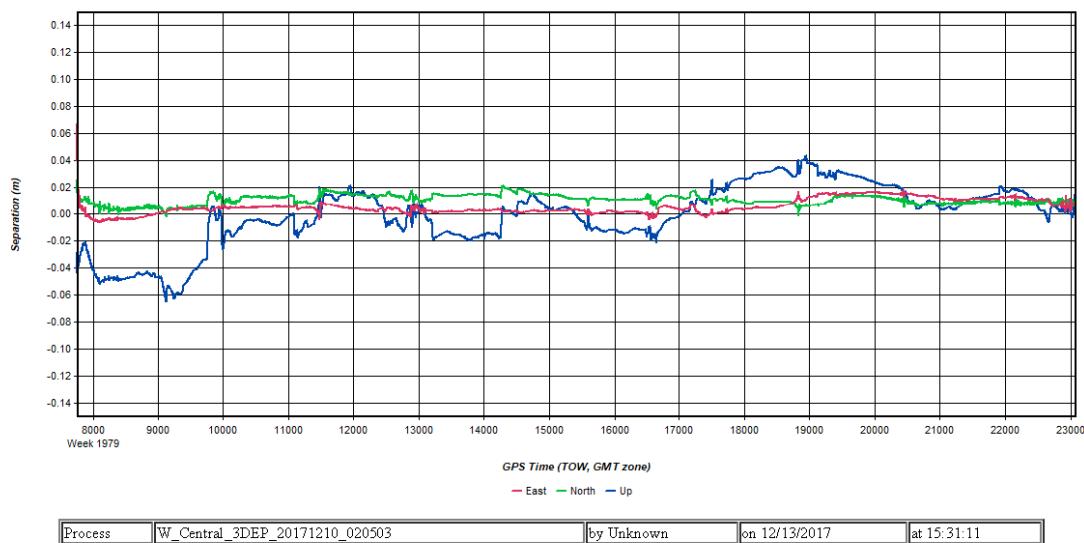
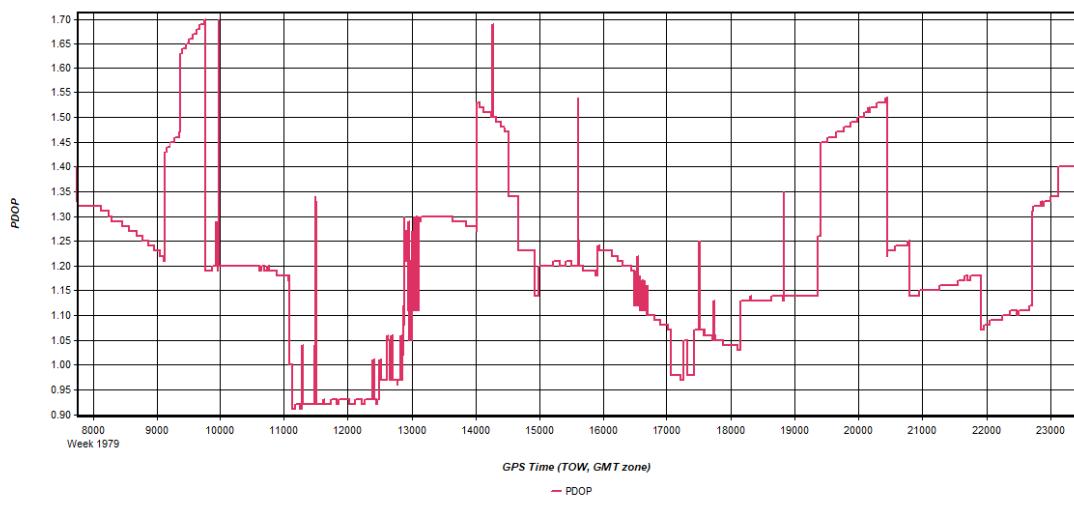


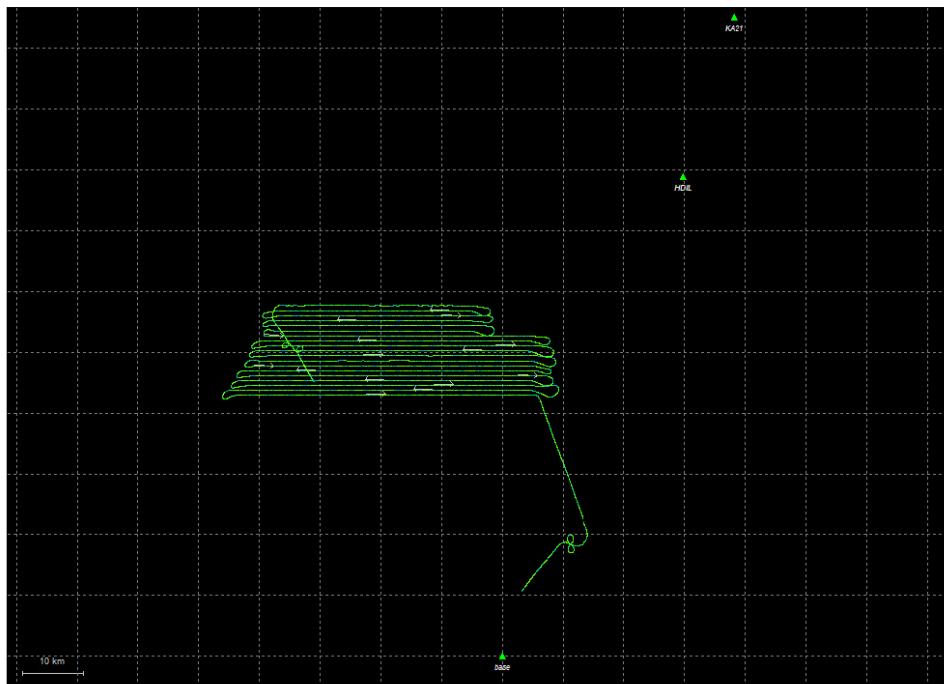
Figure 4: W\_Central\_3DEP\_20171210\_020503 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171210\_142129

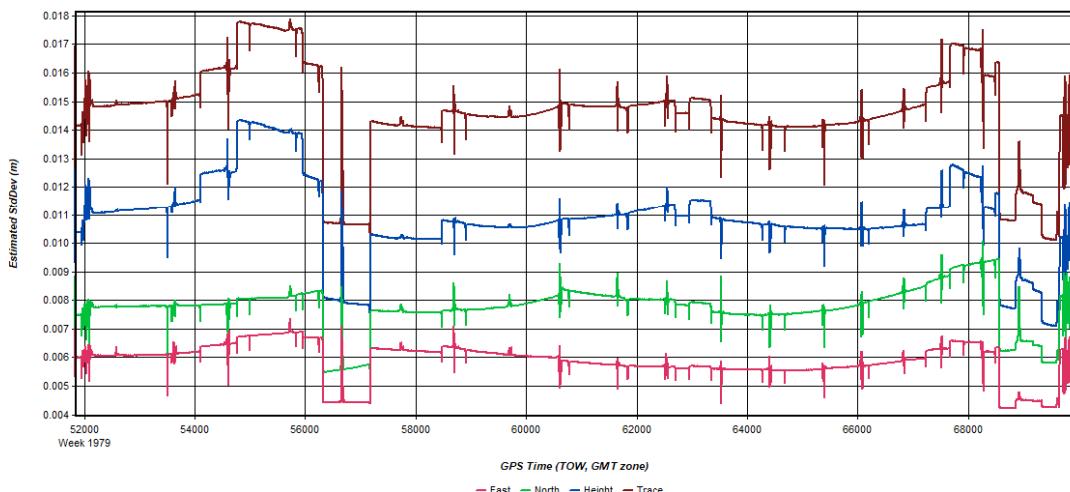
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process	W_Central_3DEP_20171210_142129	by Unknown	on 12/14/2017	at 17:19:45
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Figure 2: W\_Central\_3DEP\_20171210\_142129 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process	W_Central_3DEP_20171210_142129	by Unknown	on 12/14/2017	at 17:19:45
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Figure 3: W\_Central\_3DEP\_20171210\_142129 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

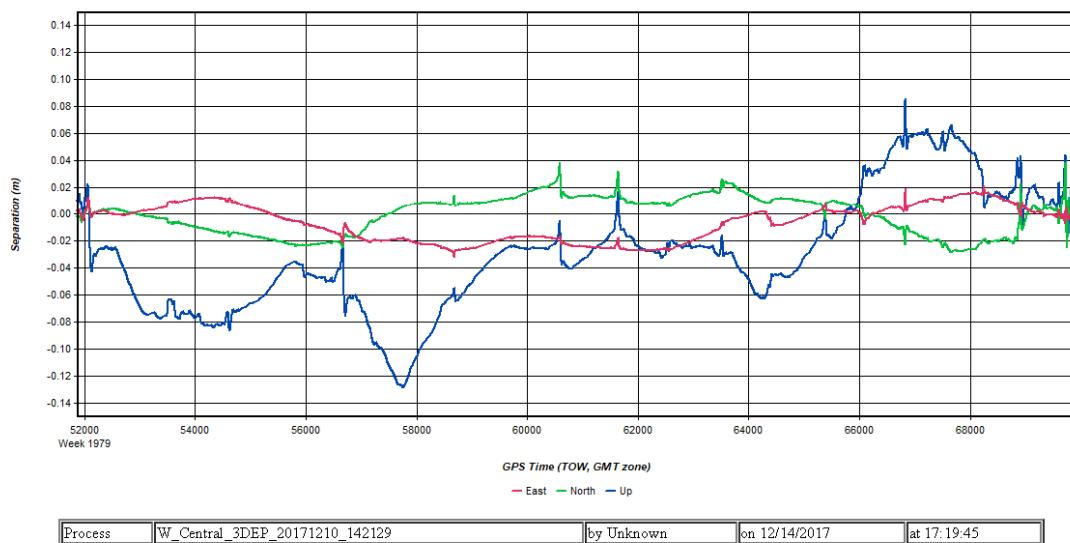
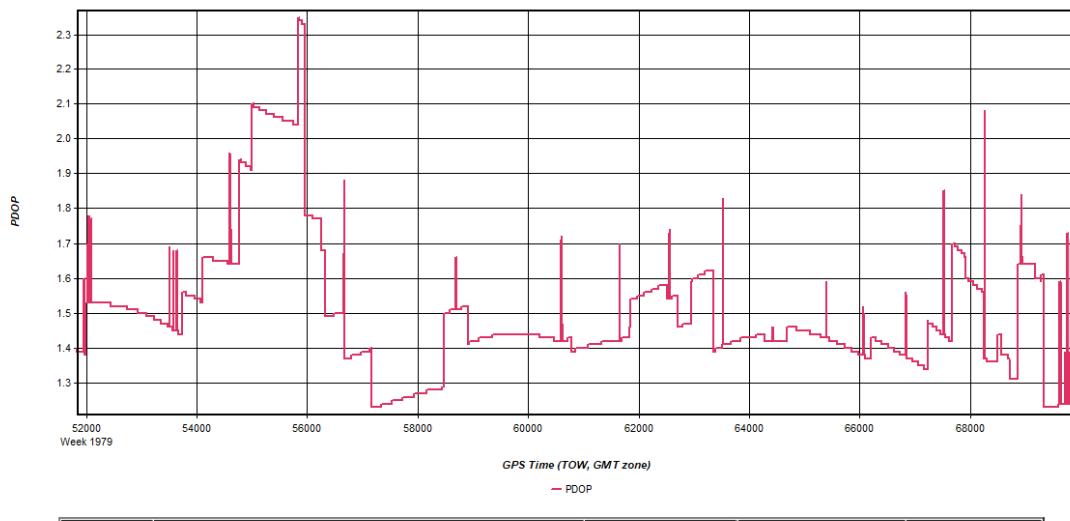


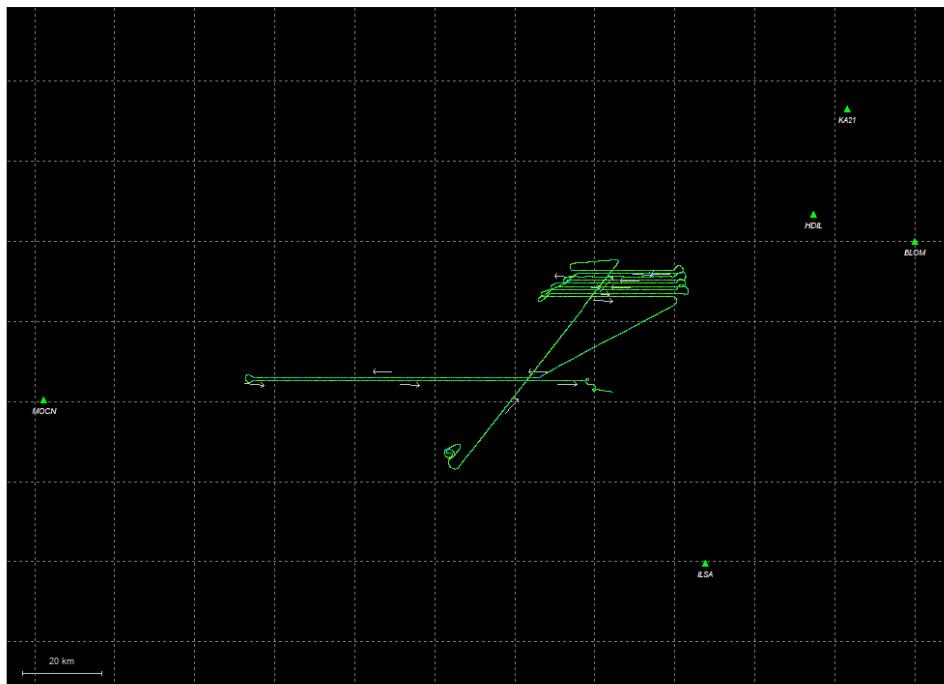
Figure 4: W\_Central\_3DEP\_20171210\_142129 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171210\_210808

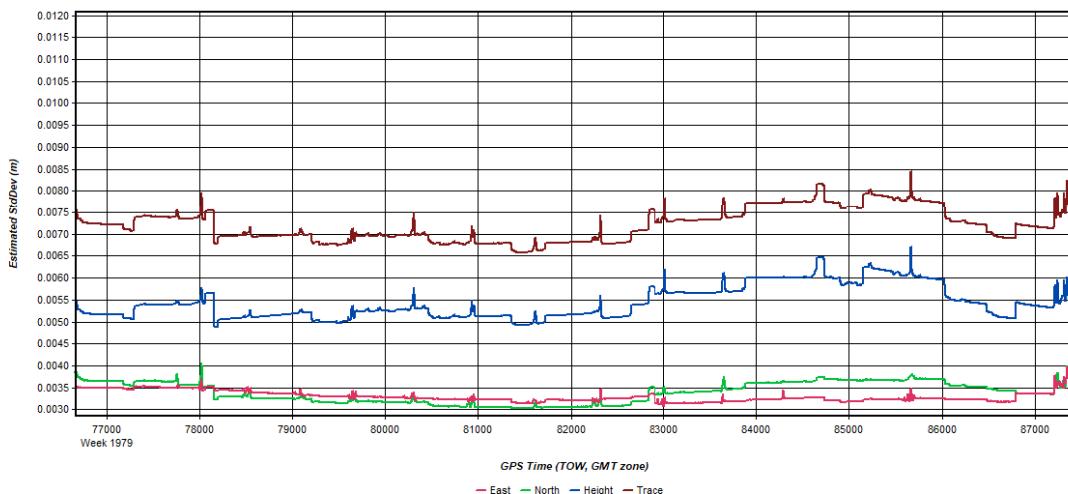
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process	W_Central_3DEP_20171210_210808	by Unknown	on 12/21/2017	at 15:21:55
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Figure 2: W\_Central\_3DEP\_20171210\_210808 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process	W_Central_3DEP_20171210_210808	by Unknown	on 12/21/2017	at 15:21:55
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Figure 3: W\_Central\_3DEP\_20171210\_210808 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

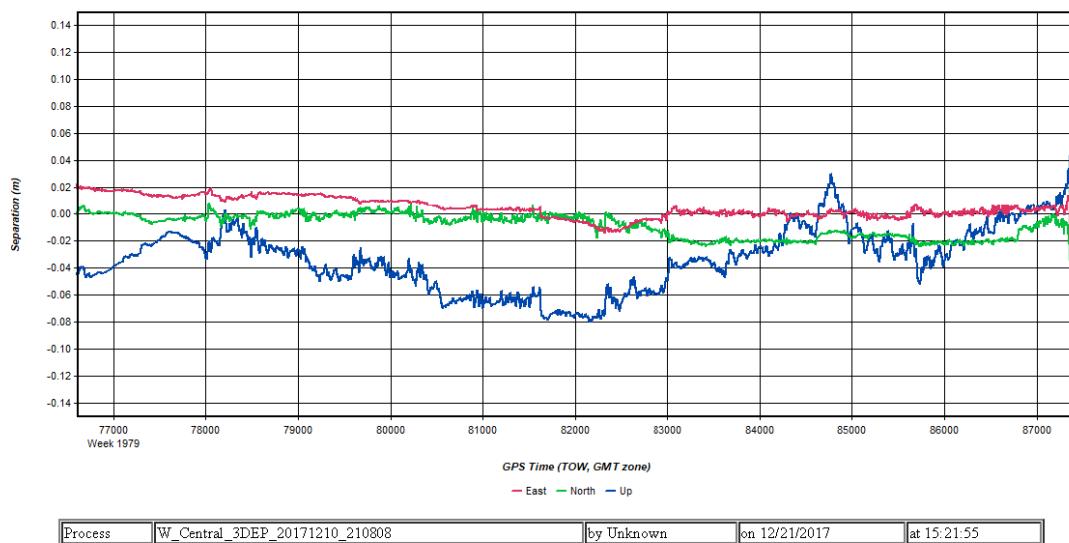
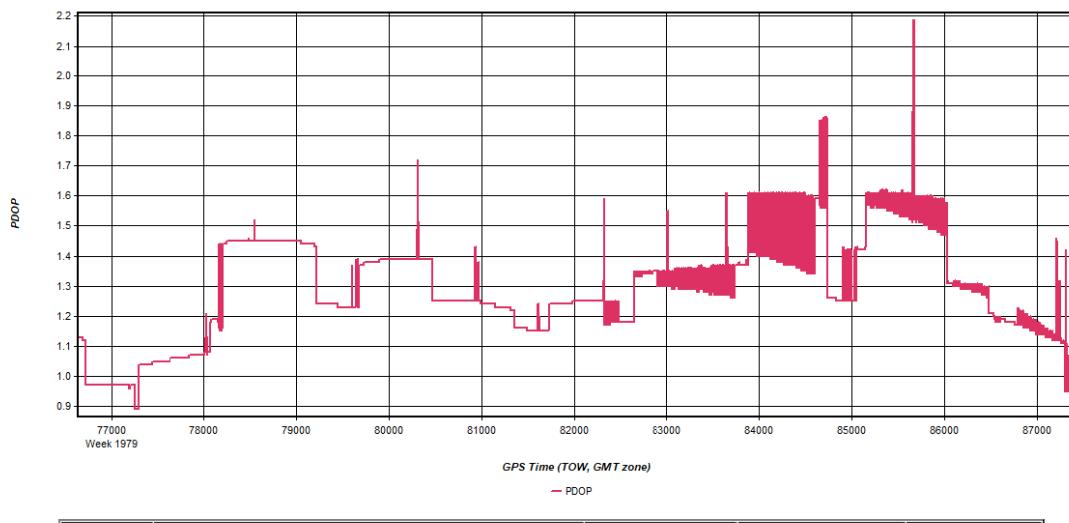


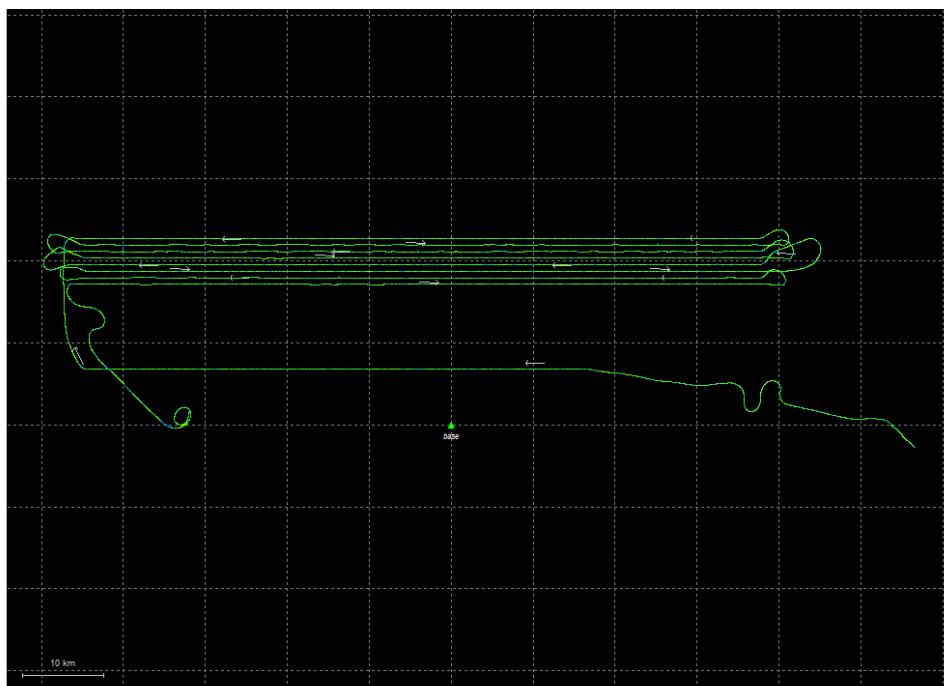
Figure 4: W\_Central\_3DEP\_20171210\_210808 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171211\_033323

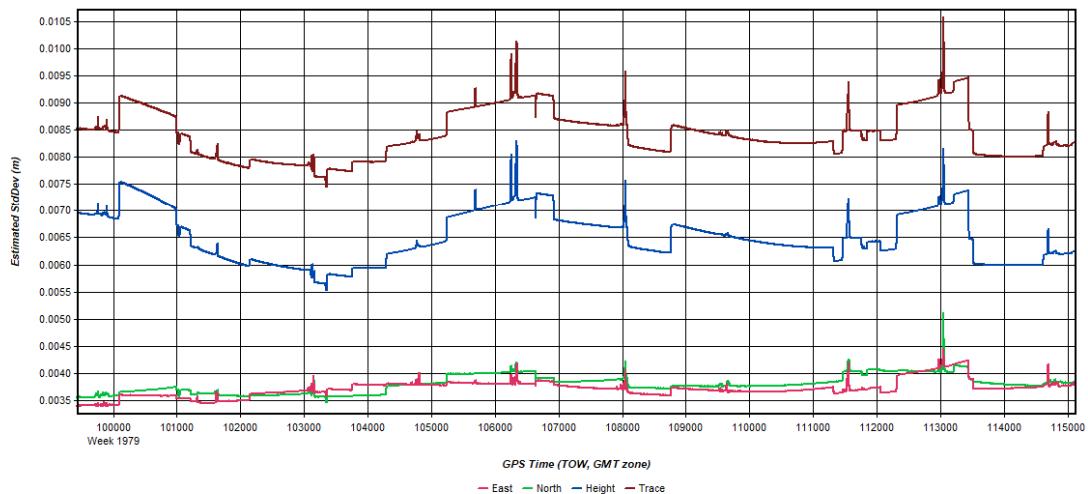
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



[Process] [W\_Central\_3DEP\_20171211\_033323] [by Unknown] [on 12/21/2017] [at 16:07:52]

Figure 2: W\_Central\_3DEP\_20171211\_033323 [Smoothed TC Combined] - Estimated Position Accuracy Plot



[Process] [W\_Central\_3DEP\_20171211\_033323] [by Unknown] [on 12/21/2017] [at 16:07:52]

Figure 3: W\_Central\_3DEP\_20171211\_033323 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

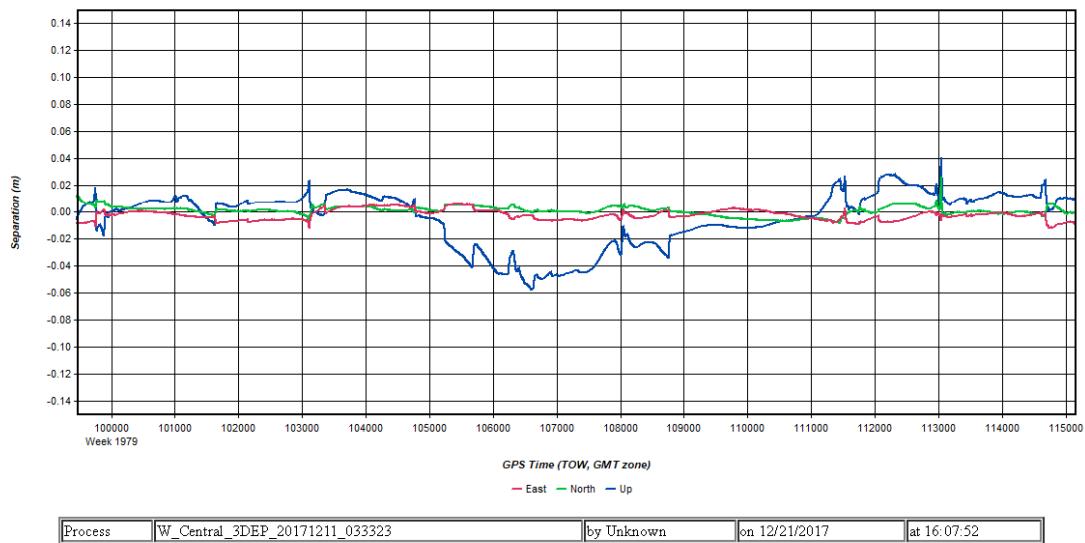
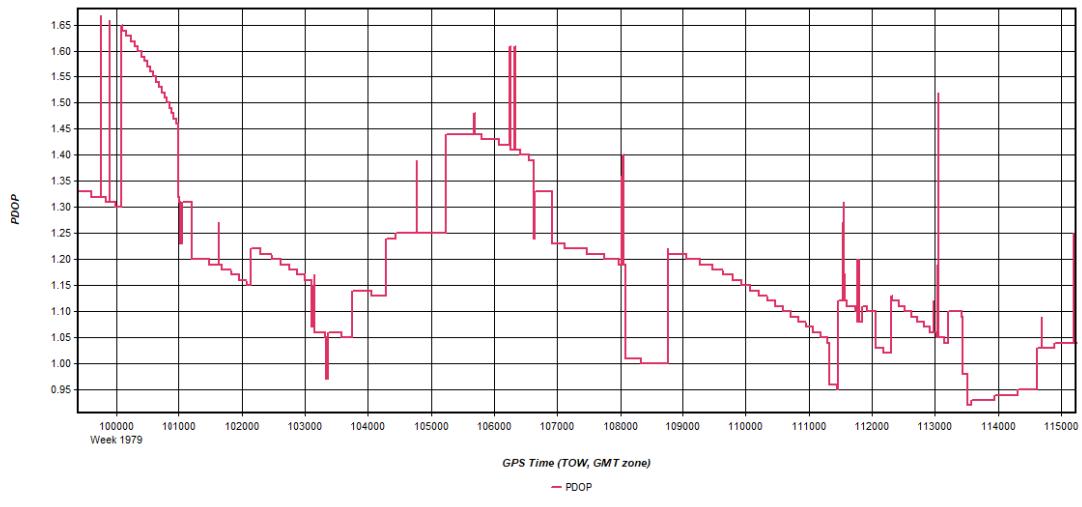


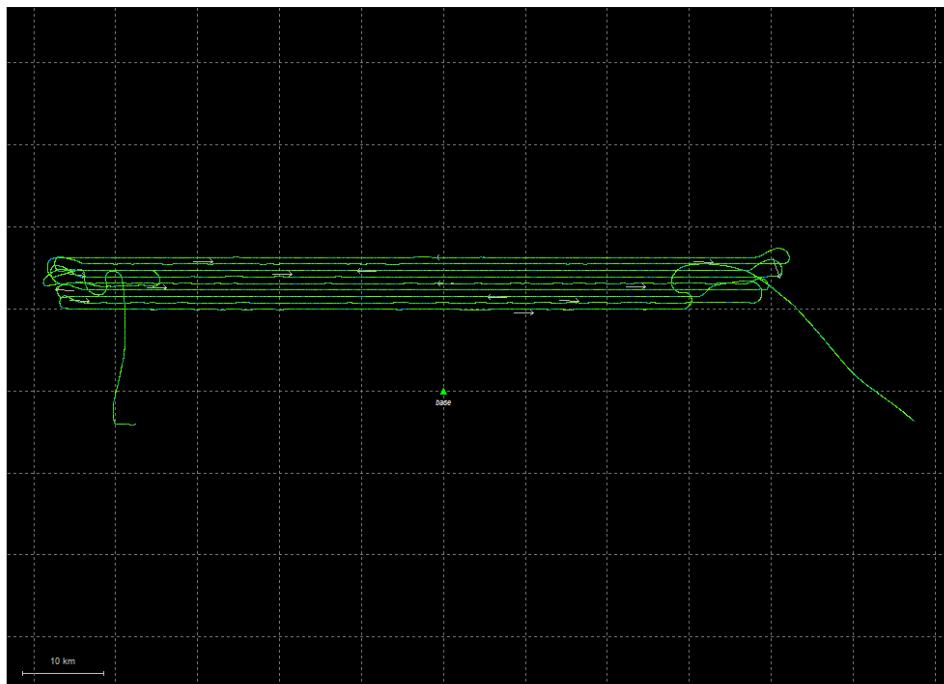
Figure 4: W\_Central\_3DEP\_20171211\_033323 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171211\_084536

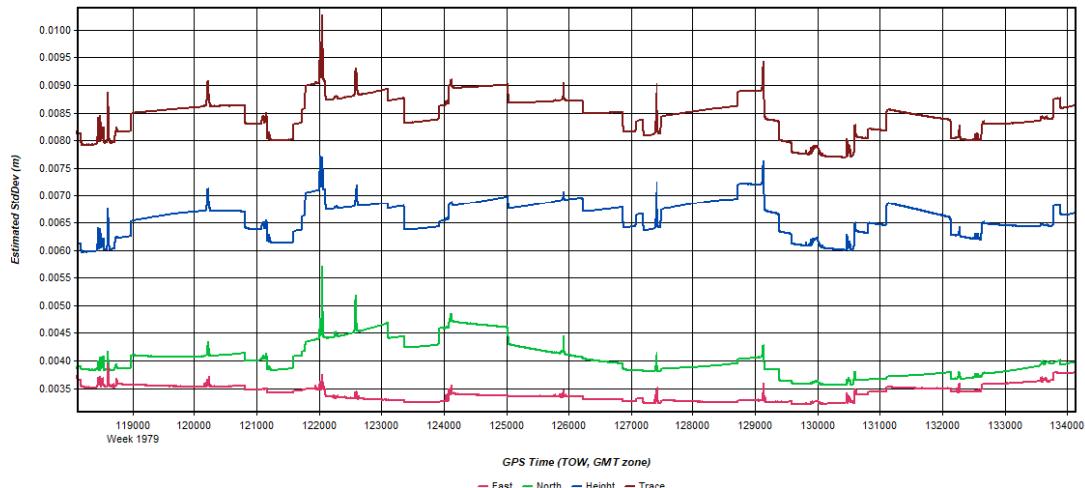
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171211\_084536 | by Unknown | on 12/21/2017 | at 16:50:44

Figure 2: W\_Central\_3DEP\_20171211\_084536 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171211\_084536 | by Unknown | on 12/21/2017 | at 16:50:44

Figure 3: W\_Central\_3DEP\_20171211\_084536 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

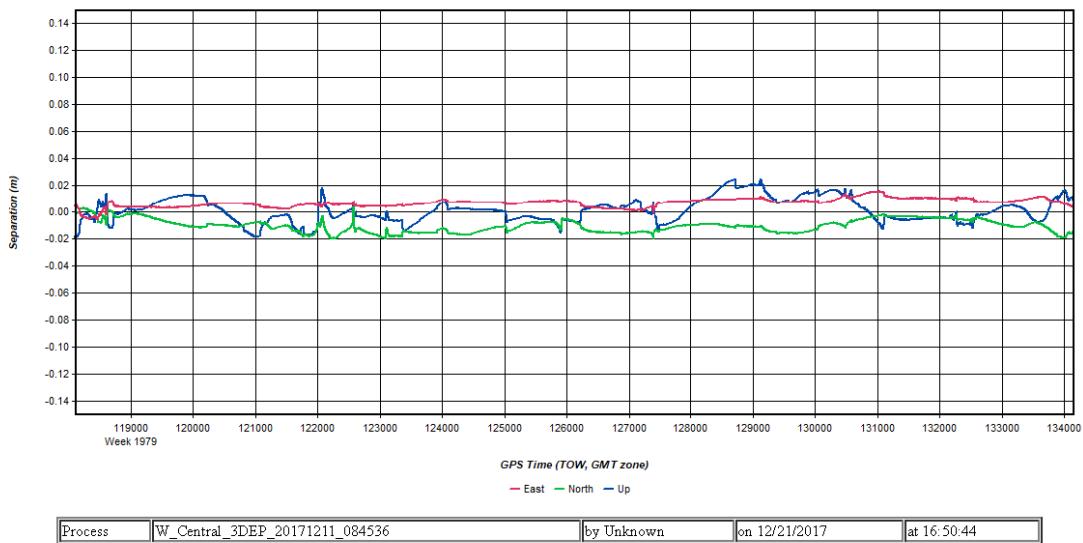
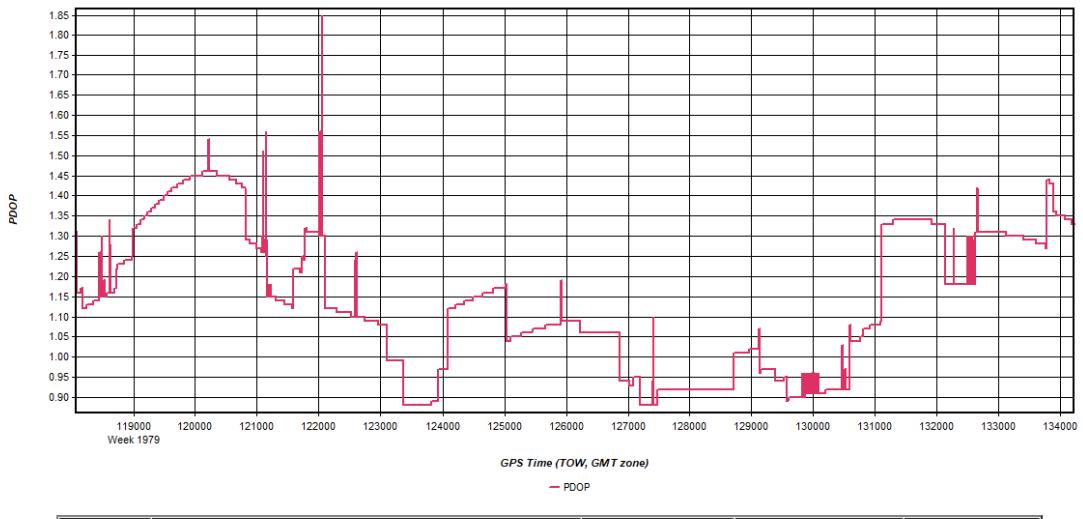


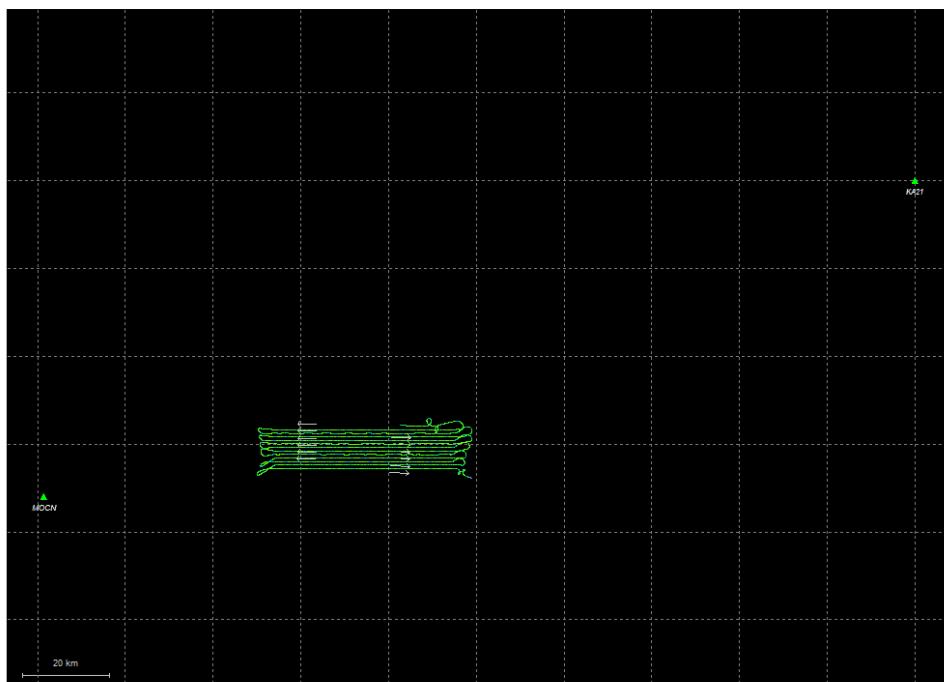
Figure 4: W\_Central\_3DEP\_20171211\_084536 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171211\_162838

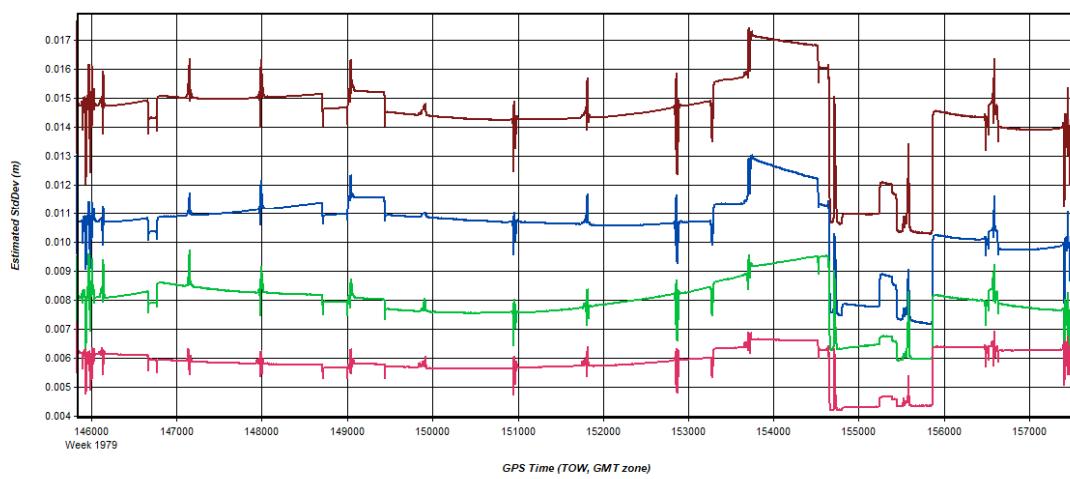
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process	W_Central_3DEP_20171211_162838	by Unknown	on 1/15/2018	at 11:34:59
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Figure 2: W\_Central\_3DEP\_20171211\_162838 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process	W_Central_3DEP_20171211_162838	by Unknown	on 1/15/2018	at 11:34:59
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Figure 3: W\_Central\_3DEP\_20171211\_162838 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

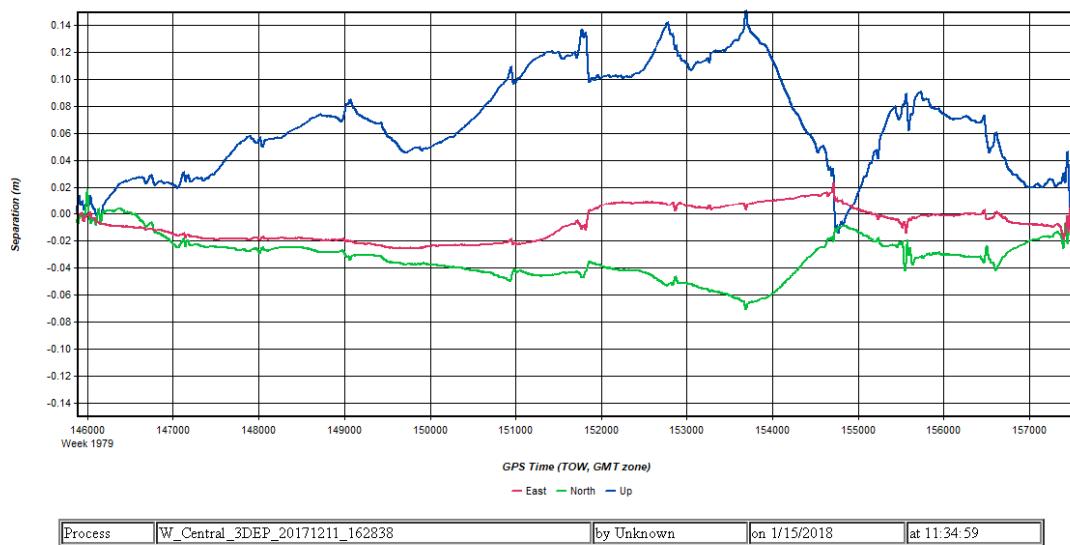
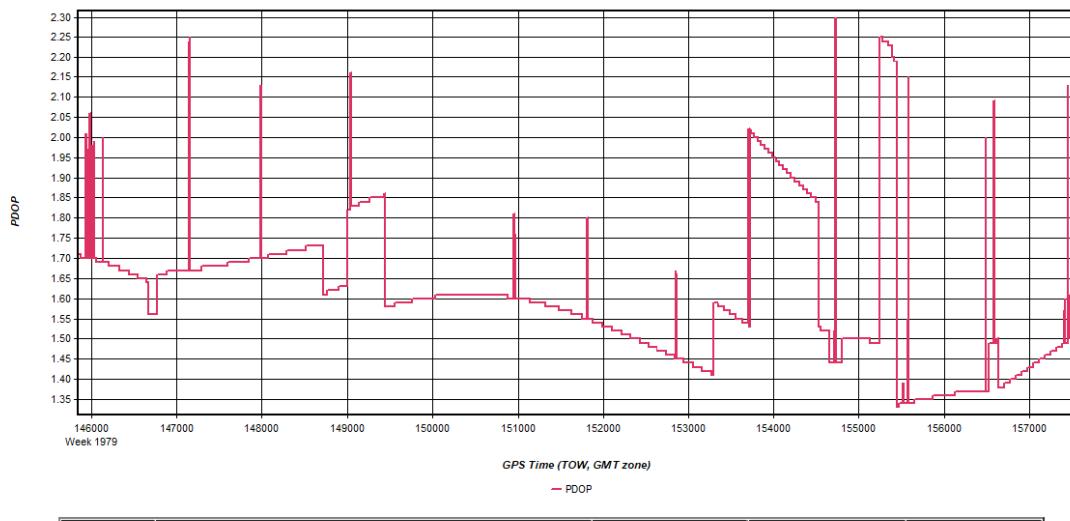


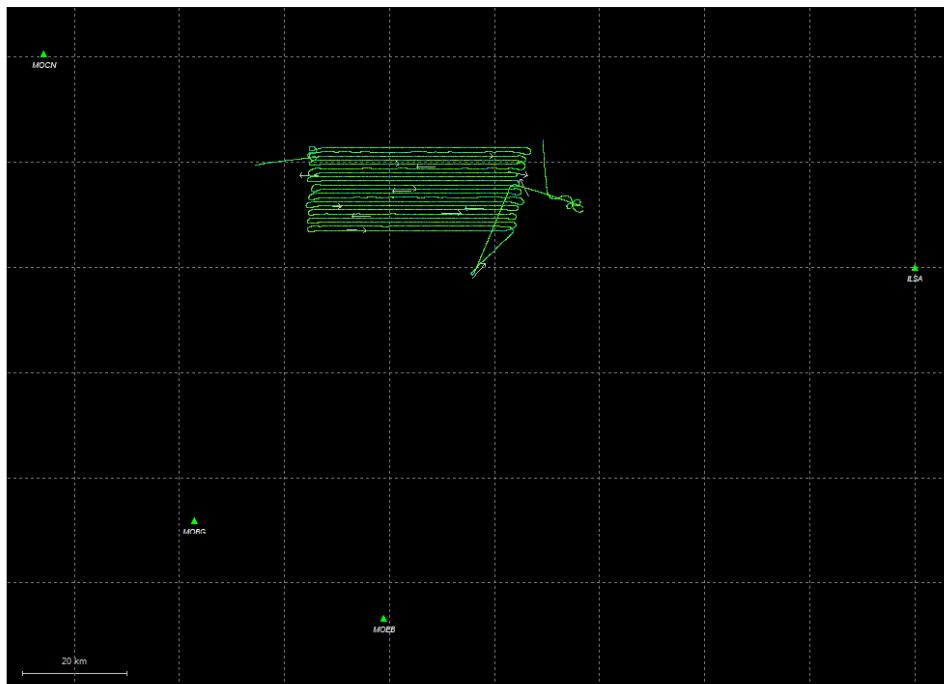
Figure 4: W\_Central\_3DEP\_20171211\_162838 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171212\_154819

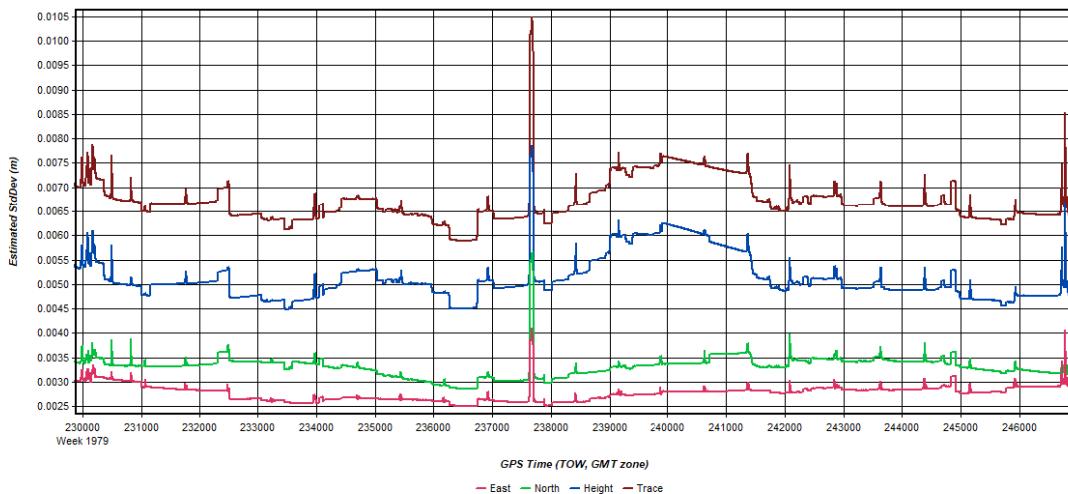
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171212\_154819 | by Unknown | on 12/21/2017 | at 17:46:07

Figure 2: W\_Central\_3DEP\_20171212\_154819 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171212\_154819 | by Unknown | on 12/21/2017 | at 17:46:07

Figure 3: W\_Central\_3DEP\_20171212\_154819 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

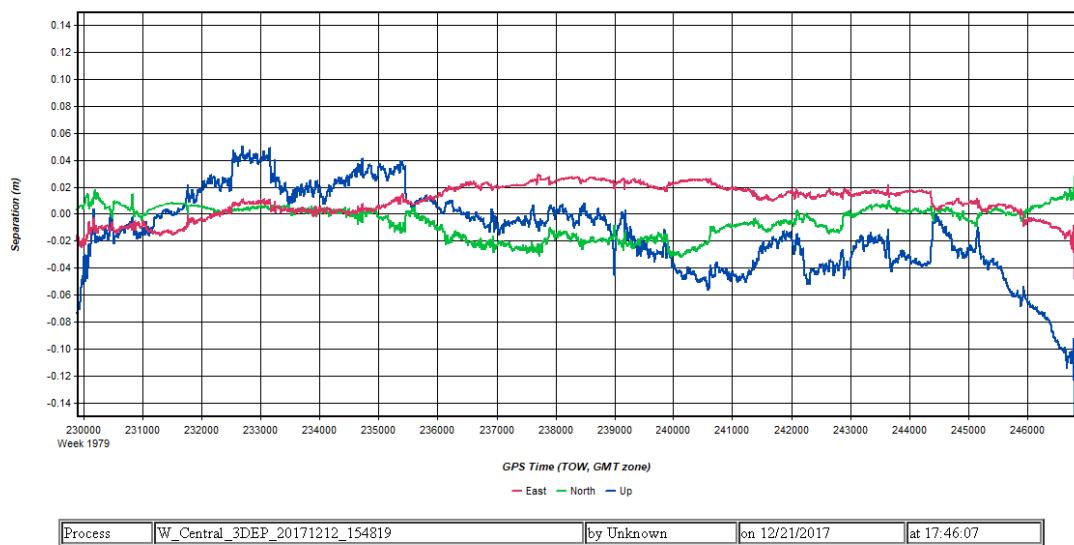
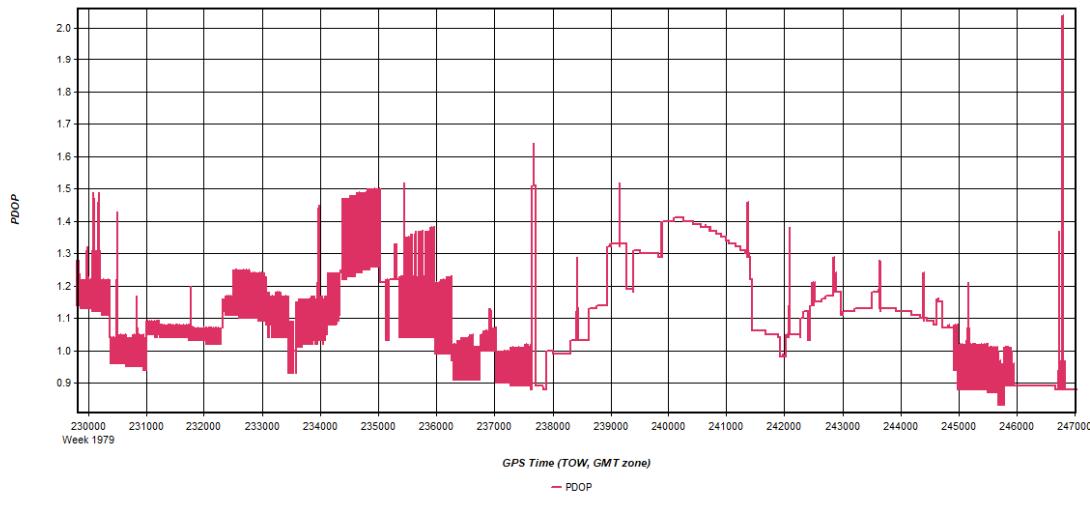


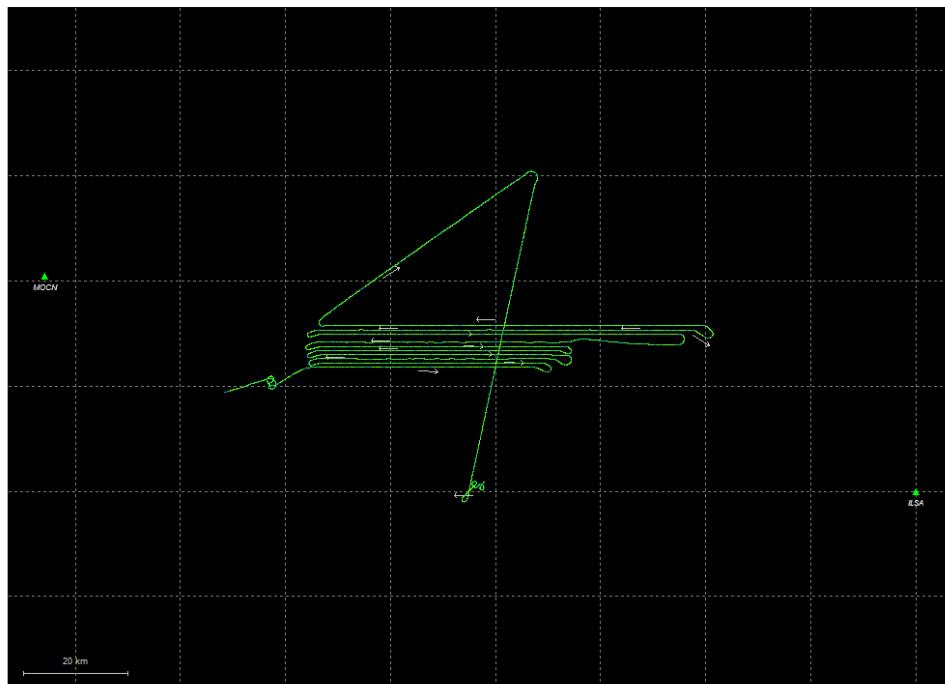
Figure 4: W\_Central\_3DEP\_20171212\_154819 [Smoothed TC Combined] - PDOP Plot



## Output Results for W\_Central\_3DEP\_20171212\_211752

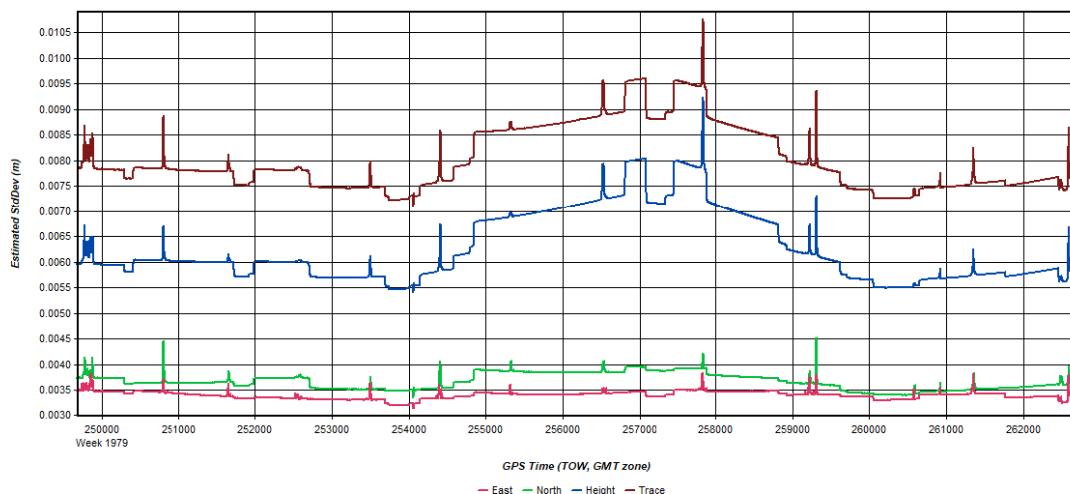
Inertial Explorer Version 8.60.6717  
10/23/2018

Figure 1: Smoothed TC Combined - Map



Process | W\_Central\_3DEP\_20171212\_211752 | by Unknown | on 12/21/2017 | at 18:34:10

Figure 2: W\_Central\_3DEP\_20171212\_211752 [Smoothed TC Combined] - Estimated Position Accuracy Plot



Process | W\_Central\_3DEP\_20171212\_211752 | by Unknown | on 12/21/2017 | at 18:34:10

Figure 3: W\_Central\_3DEP\_20171212\_211752 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot

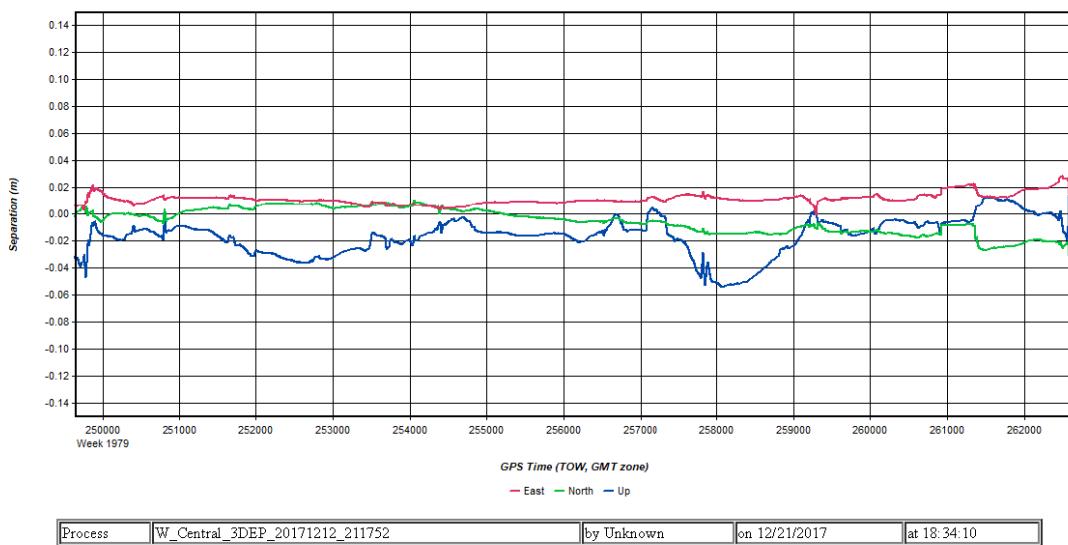


Figure 4: W\_Central\_3DEP\_20171212\_211752 [Smoothed TC Combined] - PDOP Plot

