Northern California 3DEP QL1 QL2 LiDAR Project Report

USGS Contract # G16PC00016
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1. Summary / Scope

1.1. Summary

This report contains a summary of the Northern California 3DEP QL1 QL2 LiDAR acquisition task order, issued by the USGS under USGS Contract G16PC00016 on May 15, 2018. The task order yielded a project area covering 19,990 square miles over Northern California. The intent of this document is only to provide specific validation information for the data acquisition/collection, processing, and production of deliverables completed as specified in the task order.

1.2. Scope

Aerial topographic LiDAR was acquired using state of the art technology along with the necessary surveyed ground control points (GCPs) and airborne GPS and inertial navigation systems. The aerial data collection was designed with the following specifications listed in Table 1 below.

Table 1. Originally Planned LiDAR Specifications

QL Level	Average Point Density	Flight Altitude (AGL)	Field of View	Minimum Side Overlap	RMSEz
QL 1	8 pts / m^2	2000 m	26°	60%	≤ 10 cm
QL 2	2 pts / m^2	2200 m	30°	30%	≤ 10 cm

1.3. Coverage

The project boundary covers 19,990 square miles and encompasses Northern California. The QL1 AOI covers 3,259 square miles of Plumas National Forest and the QL2 AOI covers 16,731 square miles encompassing the Northern Coast Ranges of Humboldt and Mendocino Counties, the south and central regions of the Sacramento Valley, northern regions of the Bay Area, and the Sierra Nevadas in the vicinity of Lake Tahoe. A buffer of 100 meters was created to meet task order specifications. Project extents are shown in Figure 1.

1.4. Duration

LiDAR data was acquired from 7 July 2018 to 5 September 2019 in 140 total lifts. See “Section: 2.5. Time Period” for more details.

1.5. Issues

There were no issues to report for this project.

1.6. Deliverables

The following products were produced and delivered:

- Classified LiDAR point cloud data tiles in .LAS 1.4 format
- Hydro-flattened breaklines in Esri file geodatabase format
- 1-meter hydro-flattened bare earth digital elevation model (DEM) tiles in GeoTIFF format
- 1-meter intensity imagery tiles in GeoTIFF format
- Processing boundary in Esri shapefile format
- Tile index in Esri shapefile format
- Calibration and QC checkpoints (NVA/VVA) in Esri shapefile format
- Delivery diagram in Esri shapefile format
- Flight logs in .PDF format
- GPS/IMU statistics in .PDF format
- Flight index in Esri file geodatabase format
- Flight swaths in Esri file geodatabase format
- Survey report in .PDF format
- FOCUS report in .PDF format
- FOCUS on Deliverables report in .PDF format
- FOCUS on Accuracy report in .PDF format
- Project report in .PDF format
- Deliverable metadata in .XML format

All geospatial deliverables were produced with a horizontal datum/projection of NAD83 (2011), Albers Equal Area, Meters and a vertical datum/projection of NAVD88 (GEOID12B). All tiled deliverables have a tile size of 1,000 meters x 1,000 meters. Tile names are derived from the easting and northing locations of the lower left corner of each tile (w0002n0612).

Figure 1. Project Boundary



2. Planning / Equipment

2.1. Flight Planning

Flight planning was based on the unique project requirements and characteristics of the project site. The basis of planning included: required accuracies, type of development, amount / type of vegetation within project area, required data posting, and potential altitude restrictions for flights in project vicinity.

Detailed project flight planning calculations were performed for the project using Leica MissionPro and Riegl RiPARAMETER planning software. The entire target area was comprised of 2109 planned flight lines (Figure 2).

2.2. LiDAR Sensor

Quantum Spatial utilized a Riegl VQ1560i and Leica ALS70 and ALS80 LiDAR sensors (Figure 3) during the project.

The Leica ALS 70 system is capable of collecting data at a maximum frequency of 500 kHz, which affords elevation data collection of up to 500,000 points per second. The system utilizes a Multi-Pulse in the Air option (MPIA). The sensor is also equipped with the ability to measure up to 4 returns per outgoing pulse from the laser and these come in the form of 1st, 2nd, 3rd and last returns. The intensity of the returns is also captured during aerial acquisition.

The Leica ALS 80 system is capable of collecting data at a maximum frequency of 1,000 kHz. The system utilizes a Multi-Pulse in the Air option (MPIA). The sensor also has the capacity for unlimited range returns from each outbound pulse. The intensity of the returns is also captured during aerial acquisition.

The Riegl 1560i system has a laser pulse repetition rate of up to 2 MHz resulting in more than 1.3 million measurements per second. The system utilizes a Multi-Pulse in the Air option (MPIA). The sensor is also equipped with the ability to measure up to an unlimited number of targets per pulse from the laser.

A brief summary of the aerial acquisition parameters for the project are shown in the LiDAR System Specifications in Table 2.

Figure 2. Planned Flight Lines - Southwest

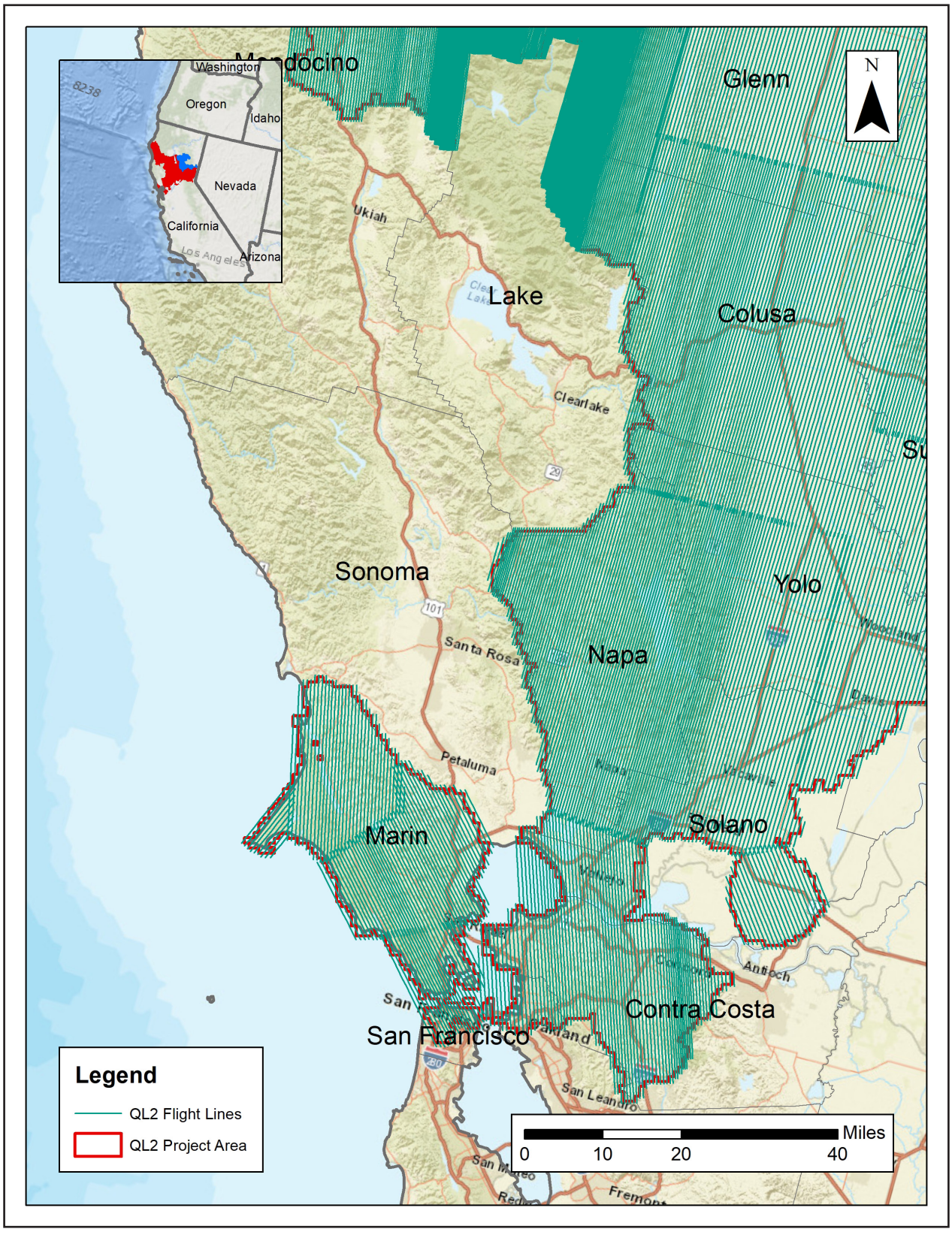

Figure 3. Planned Flight Lines - Northwest

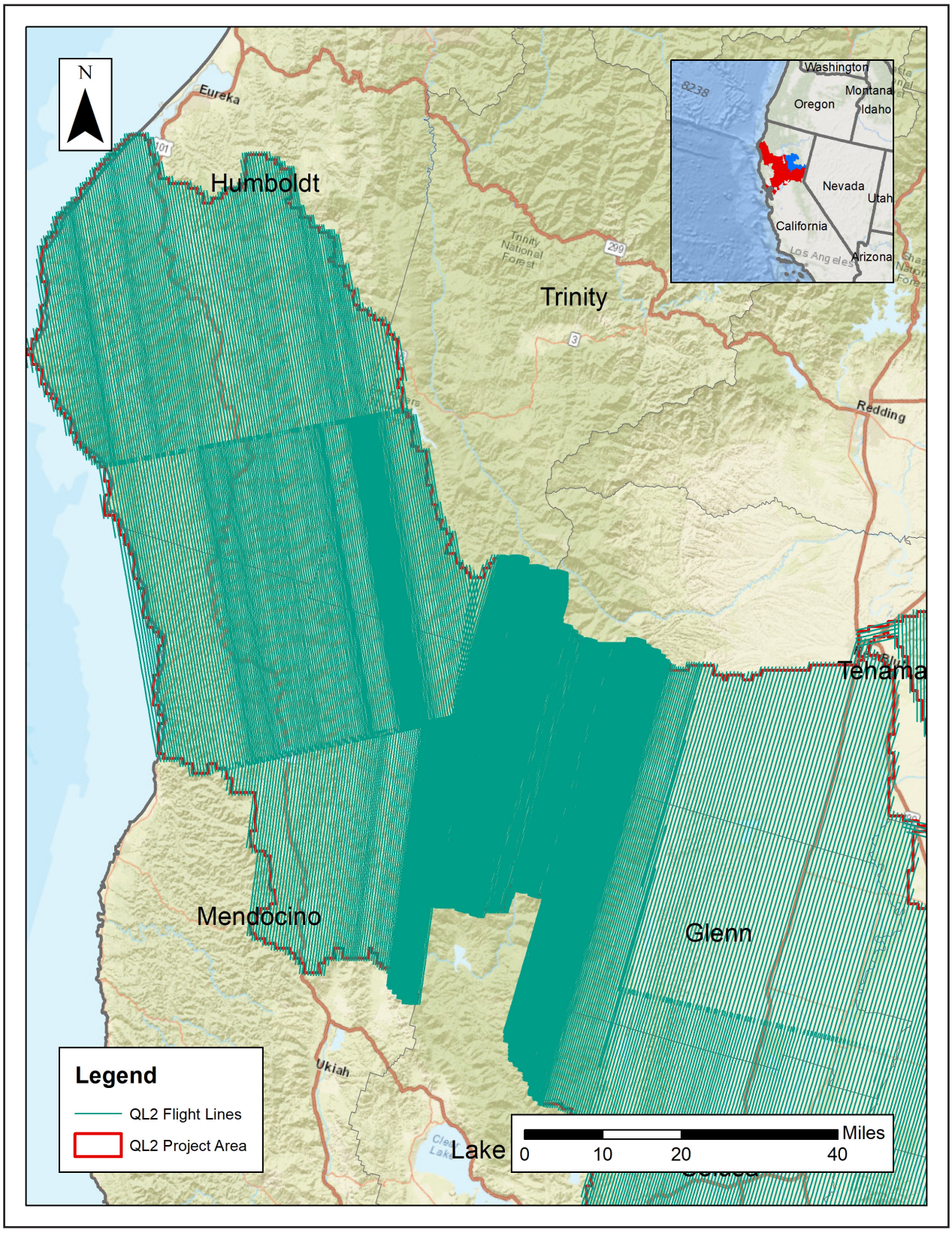

Figure 4. Planned Flight Lines - East

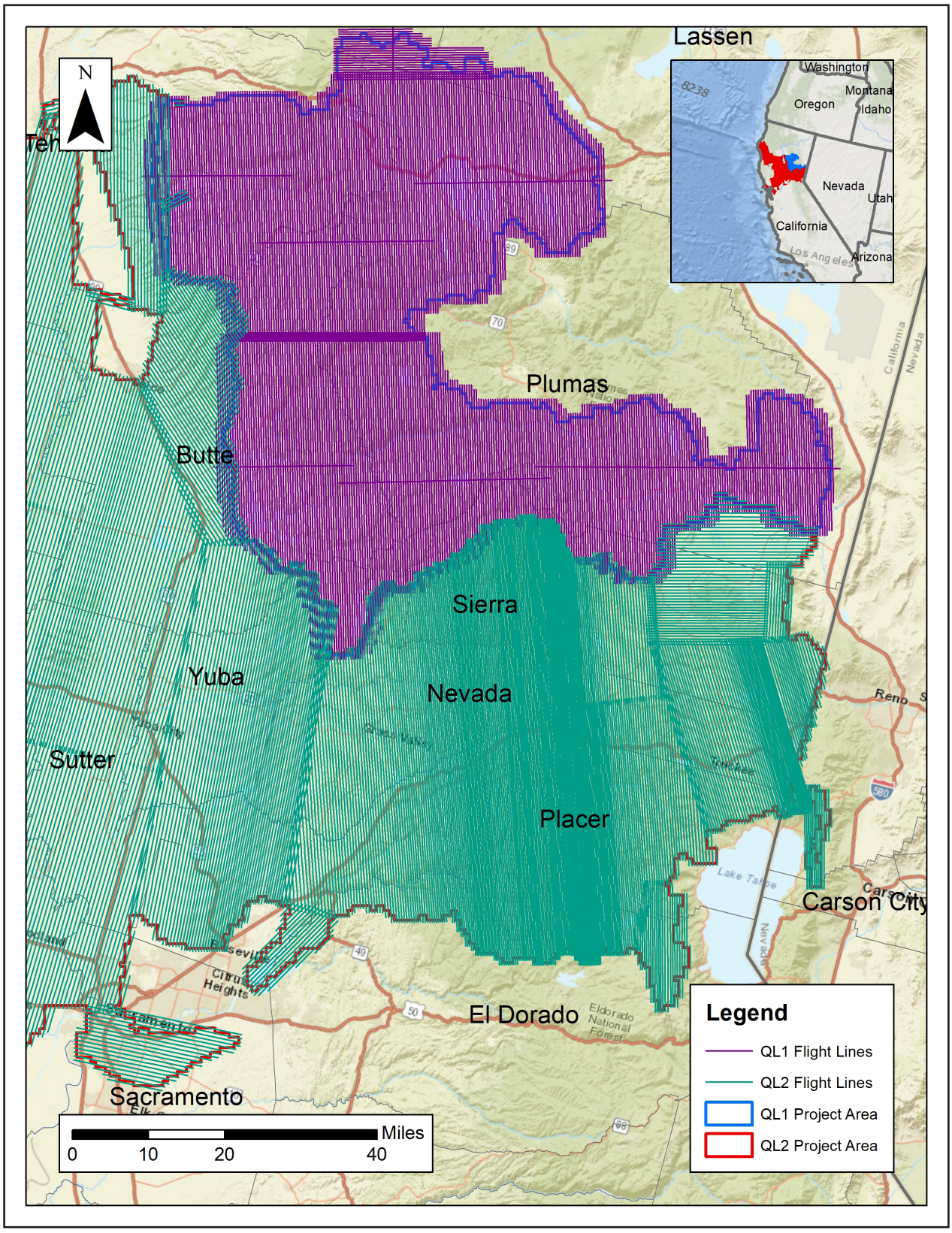

Figure 5. Planned Flight Lines - GMEG

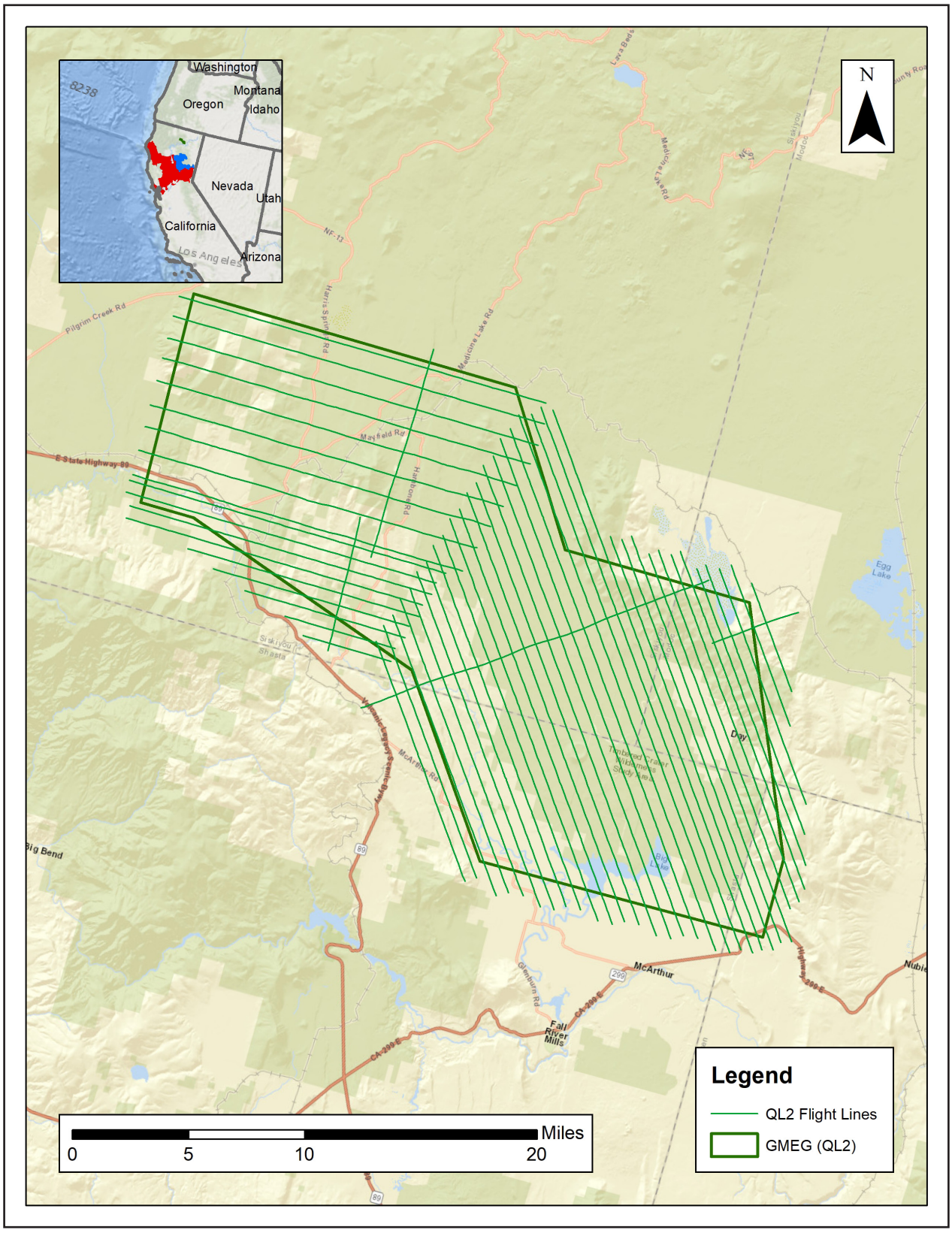

Table 2. LiDAR System Specifications

		Leica ALS70	Leica ALS80	Riegl (QL2)	Riegl (QL1)
Terrain and Aircraft Scanner	Flying Height	2200 m	2300 m	2300 m	2000 m
	Recommended Ground Speed	140 kts	140 kts	140 kts	160 kts
Scanner	Field of View	30°	28°	60°	58.5°
	Scan Rate Setting Used	46 Hz	60 Hz	165 Hz	46.1 Hz
Laser	Laser Pulse Rate Used	245 kHz	240 kHz	800 kHz	100 kHz
	Multi Pulse in Air Mode	yes	yes	yes	yes
Coverage	Full Swath Width	1179 m	1147 m	2656 m	2217 m
	Line Spacing	825.3 m	802.9 m	1859.2 m	997.65 m
Point Spacing and Density	Average Point Spacing	0.6 m	0.6 m	0.6 m	0.48 m
	Average Point Density	2.78 pts / m^2	2.78 pts / m^2	2.78 pts / m^2	4.35 pts / m^2

Figure 6. The ALS70, ALS80, and VQ1560i LiDAR Sensors



2.3. Aircraft

All flights for the project were accomplished through the use of customized planes. Plane type and tail numbers are listed below.

LiDAR Collection Planes

- Cessna Caravan (C208), Tail Numbers: N840JA, N208JA, N704MD, N208NR
- Piper Navajo (PA31), Tail Numbers: C-GMEC, N-44RL, C-FFRY

These aircraft provided an ideal, stable aerial base for LiDAR and orthoimagery acquisition. These aerial platforms has relatively fast cruise speeds which are beneficial for project mobilization / demobilization while maintaining relatively slow stall speeds which proved ideal for collection of high-density, consistent data posting using state-of-the-art Leica and Riegl LiDAR systems. Some of Quantum Spatial's operating aircraft can be seen in Figure 4 below.

Figure 7. Some of Quantum Spatial's Planes



2.4. Time Period

Project specific flights were conducted over eleven months. 140 aircraft lifts were completed. Accomplished lfits are listed below.

- 20180707A (1560Q, N-44RL)
- 20180708A (1560Q, N-44RL)
- 20180709A (1560Q, N-44RL)
- 20180710A (1560Q, N-44RL)
- 20180711A (1560Q, N-44RL)
- 20180712A (1560Q, N-44RL)
- 20180714A (SN7161, N704MD)
- 20180715A (SN7161, N704MD)
- 20180716A (1560Q, N-44RL)
- 20180716A (SN7161, N704MD)
- 20180717A (1560Q, N-44RL)
- 20180717A (SN7161, N704MD)
- 20180718A (1560Q-SN1256, N-44RL)
- 20180718A (1560Q-SN1756, N-44RL)
- 20180718A (1560Q, N-44RL)
- 20180718A (SN7161, N704MD)
- 20180718B (1560Q-SN1256, N-44RL)
- 20180718B (SN1256-AI, N-44RL)
- 20180720A (1560Q-SN1756, N-44RL)
- 20180720B (1560Q-SN0754, N-44RL)
- 20180721B (1560Q-SN1756, N-44RL)
- 20180721B (SN1256-AI, N-44RL)
- 20180723A (SN1256-AI, N-44RL)
- 20180724A (SN1256-AI, N-44RL)
- 20180725A (SN1256-AI, N-44RL)
- 20180729A (1560i, N704MD)
- 20180731A (1560i, N704MD)
- 20180801A (1560i, N704MD)
- 20180802A (1560i, N704MD)
- 20180803A (1560i, N704MD)
- 20180816A (SN8239, N840JA)
- 20180817A (SN8239, N840JA)
- 20180817B (SN8239, N840JA)
- 20180818A (SN8239, N840JA)
- 20180818B (SN8239, N840JA)
- 20180819A (SN8239, N840JA)
- 20180820A (SN8239, N840JA)
- 20180821A (SN8239, N840JA)
- 20180822A (SN8239, N840JA)
- 20180822B (SN8239, N840JA)
- 20180822C (SN8239, N840JA)
- 20180822D (SN8239, N840JA)
- 20180826A (SN8239, N840JA)
- 20180831A (SN3543-AI, C-FFRY)
- 20180901A (SN3543-AI, C-FFRY)
- 20180902A (SN3543-AI, C-FFRY)
- 20180903A (SN3543-AI, C-FFRY)
- 20180905A (SN3543-AI, C-FFRY)

- 20180906A (SN3543-AI, C-FFRY)
- 20180906A (SN8239, N840JA)
- 20180907A (SN3543-AI, C-FFRY)
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- 20180907B (SN8239, N840JA)
- 20180908A (SN8239, N840JA)
- 20180909A (SN8239, N840JA)
- 20180910A (SN8239, N840JA)
- 20180910B (SN8239, N840JA)
- 20180911A (SN8239, N840JA)
- 20180912A (SN3543-AI, C-FFRY)
- 20180913A (SN3543-AI, C-FFRY)
- 20180914A (SN3543-AI, C-FFRY)
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- 20181213A (SN546, N840JA)
- 20181213A (SN62-AI, C-GMEC)
- 20181213A (Split SN546, N840JA)
- 20181219A (SN546, N840JA)
- 20181222A (SN546, N840JA)
- 20181227A (SN546, N840JA)
- 20181228A (SN546, N840JA)
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- 20181229B (SN546, N840JA)
- 20181230A (SN546, N840JA)
- 20181231A (SN546, N840JA)
- 20181231B (SN546, N840JA)
- 20190101A (SN546, N840JA)
- 20190102A (SN546, N840JA)
- 20190102A (SN546, N840JA)
- 20190103A (SN, 62-AI, C-GMEC)
- 20190103A (SN546, N840JA)
- 20190103B (SN546, N840JA)

- 20190104A (SN62-AI, C-GMEC)
- 20190113A (SN3562-AI, C-GMEC)
- 20190123A (SN3562-AI, C-GMEC)
- 20190124A (SN3562-AI, C-GMEC)
- 20190125A (SN62-AI, C-GMEC)
- 20190126A (SN62-AI, C-GMEC)
- 20190127A (SN62-AI, C-GMEC)
- 20190128A (SN62-AI, C-GMEC)
- 20190207A (SN3562-AI, C-GMEC)
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- 20190212A (SN3562-AI, C-GMEC)
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- 20190811A (SN3061, N208JA)
- 20190812A (SN3061, N208JA)
- 20190905A (SN3061, N840JA)

3. Processing Summary

3.1. Flight Logs

Flight logs were completed by LIDAR sensor technicians for each mission during acquisition. These logs depict a variety of information, including:

- Job / Project #
- Flight Date / Lift Number
- FOV (Field of View)
- Scan Rate (HZ)
- Pulse Rate Frequency (Hz)
- Ground Speed
- Altitude
- Base Station
- PDOP avoidance times
- Flight Line #
- Flight Line Start and Stop Times
- Flight Line Altitude (AMSL)
- Heading
- Speed
- Returns
- Crab

Notes: (Visibility, winds, ride, weather, temperature, dew point, pressure, etc). Flight logs for sorties are available upon request.

3.2. LiDAR Processing

Inertial Explorer and Applanix + POSPac Mobile Mapping Suite softwares were used for post-processing of airborne GPS and inertial data (IMU), which is critical to the positioning and orientation of the LiDAR sensor during all flights. Inertial Explorer and POSPac combine aircraft raw trajectory data with stationary GPS base station data yielding a “Smoothed Best Estimate Trajectory (SBET) necessary for additional post processing software to develop the resulting geo-referenced point cloud from the LiDAR missions.

During the sensor trajectory processing (combining GPS & IMU datasets) certain statistical graphs and tables are generated within the Inertial Explorer and Applanix POSPac processing environments which are commonly used as indicators of processing stability and accuracy. This data for analysis include: Max horizontal / vertical GPS variance, separation plot, altitude plot, PDOP plot, base station baseline length, processing mode, number of satellite vehicles, and mission trajectory.

The generated point cloud is the mathematical three dimensional composite of all returns from all laser pulses as determined from the aerial mission. Laser point data are imported into

TerraScan and a manual calibration is performed to assess the system offsets for pitch, roll, heading and scale. At this point this data is ready for analysis, classification, and filtering to generate a bare earth surface model in which the above-ground features are removed from the data set. Point clouds were created using the Leica CloudPro software and RIPROCESS software. GeoCue distributive processing software was used in the creation of some files needed in downstream processing, as well as in the tiling of the dataset into more manageable file sizes. TerraScan and TerraModeler software packages were then used for the automated data classification, manual cleanup, and bare earth generation. Project specific macros were developed to classify the ground and remove side overlap between parallel flight lines.

All data was manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler. Global Mapper was used as a final check of the bare earth dataset. GeoCue was used to create the deliverable industry-standard LAS files for both the All Point Cloud Data and the Bare Earth. In-house software was then used to perform final statistical analysis of the classes in the LAS files.

3.3. LAS Classification Scheme

The classification classes are determined by the USGS Version 1.3 specifications and are an industry standard for the classification of LIDAR point clouds. All data starts the process as Class 1 (Unclassified), and then through automated classification routines, the classifications are determined using TerraScan macro processing.

The classes used in the dataset are as follows and have the following descriptions:

- Class 1 – Processed, but Unclassified – These points would be the catch all for points that do not fit any of the other deliverable classes. This would cover features such as vegetation, cars, etc.
- Class 2 – Bare-Earth Ground – This is the bare earth surface
- Class 7 – Low Noise – Low points, manually identified below the surface that could be noise points in point cloud.
- Class 9 – Water – Points found inside of inland lake/ponds
- Class 17 – Bridge Decks – Points falling on bridge decks.
- Class 18 – High Noise – High points, manually identified above the surface that could be noise points in point cloud.
- Class 20 – Ignored Ground – Points found to be close to breakline features. Points are moved to this class from the Class 2 dataset. This class is ignored during the DEM creation process in order to provide smooth transition between the ground surface and hydro flattened surface.
- Class 21 – Snow – If present and identifiable
- Class 22 – Temporal exclusion – Typically non-favored data in intertidal zones

3.4. Classified LAS Processing

The bare earth surface is then manually reviewed to ensure correct classification on the Class 2 (Ground) points. After the bare- earth surface is finalized; it is then used to generate all hydro-breaklines through heads-up digitization.

All ground (ASPRS Class 2) LiDAR data inside of the Lake Pond and Double Line Drain hydro flattening breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 3 feet was also used around each hydro flattened feature to classify these ground (ASPRS Class 2) points to Ignored ground (ASPRS Class 20). All Lake Pond Island and Double Line Drain Island features were checked to ensure that the ground (ASPRS Class 2) points were reclassified to the correct classification after the automated classification was completed.

All overlap data was processed through automated functionality provided by TerraScan to classify the overlapping flight line data to approved classes by USGS. The overlap data was identified using the Overlap Flag, per LAS 1.4 specifications.

All data was manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler. Global Mapper is used as a final check of the bare earth dataset. GeoCue was then used to create the deliverable industry-standard LAS files for all point cloud

data. Quantum Spatial's proprietary software was used to perform final statistical analysis of the classes in the LAS files, on a per tile level to verify final classification metrics and full LAS header information.

3.5. Hydro-Flattened Breakline Processing

Class 2 LiDAR was used to create a bare earth surface model. The surface model was then used to heads-up digitize 2D breaklines of Inland Streams and Rivers with a 100 foot nominal width and Inland Ponds and Lakes of 2 acres or greater surface area.

Elevation values were assigned to all Inland Ponds and Lakes, Inland Pond and Lake Islands, Inland Streams and Rivers and Inland Stream and River Islands using TerraModeler functionality.

Elevation values were assigned to all Inland streams and rivers using Quantum Spatial's proprietary software.

All ground (ASPRS Class 2) LiDAR data inside of the collected inland breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 3 feet was also used around each hydro flattened feature. These points were moved from ground (ASPRS Class 2) to Ignored Ground (ASPRS Class 20).

The breakline files were then translated to Esri file geodatabase format using Esri conversion tools.

Breaklines are reviewed against lidar intensity imagery to verify completeness of capture. All breaklines are then compared to TINs (triangular irregular networks) created from ground only points prior to water classification. The horizontal placement of breaklines is compared to terrain features and the breakline elevations are compared to lidar elevations to ensure all breaklines match the lidar within acceptable tolerances. Some deviation is expected between breakline and lidar elevations due to monotonicity, connectivity, and flattening rules that are enforced on the breaklines. Once completeness, horizontal placement, and vertical variance is reviewed, all

breaklines are reviewed for topological consistency and data integrity using a combination of Esri Data Reviewer tools and proprietary tools.

3.6. Hydro-Flattened Raster DEM Processing

Class 2 LiDAR in conjunction with the hydro breaklines were used to create 0.5 and 1-meter Raster DEMs. Using automated scripting routines within ArcMap, a GeoTIFF file was created for each tile. Each surface is reviewed using Global Mapper to check for any surface anomalies or incorrect elevations found within the surface.

3.7. Intensity Image Processing

GeoCue software was used to create the deliverable intensity images. All overlap classes were ignored during this process. This helps to ensure a more aesthetically pleasing image. The GeoCue software was then used to verify full project coverage as well. GeoTIFF files with a cell size of 0.5 and 1 meter were then provided as the deliverable for this dataset requirement.

Figure 8. LiDAR Tile Layout - Southwest



Figure 9. LiDAR Tile Layout - Northwest

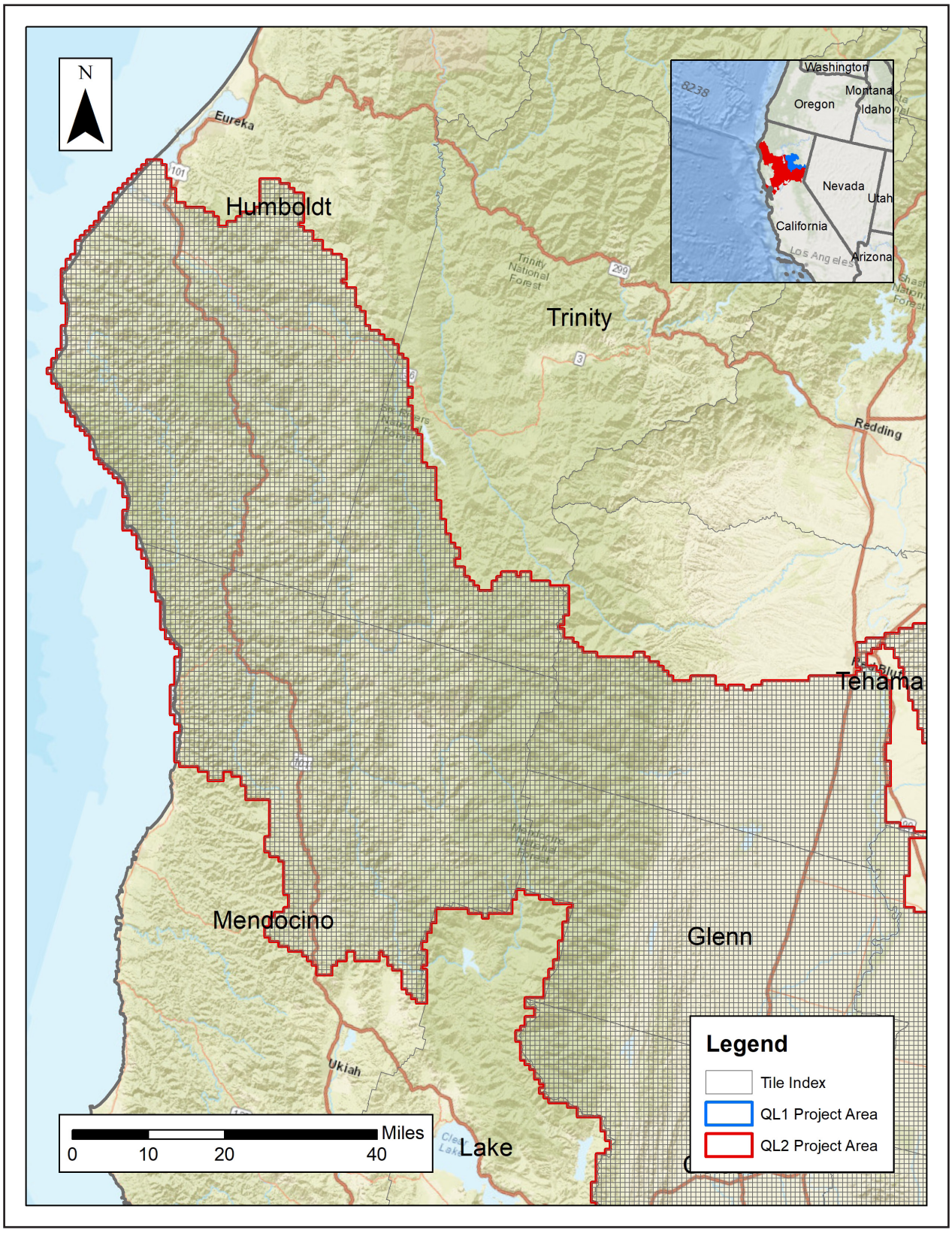


Figure 10. LiDAR Tile Layout - East

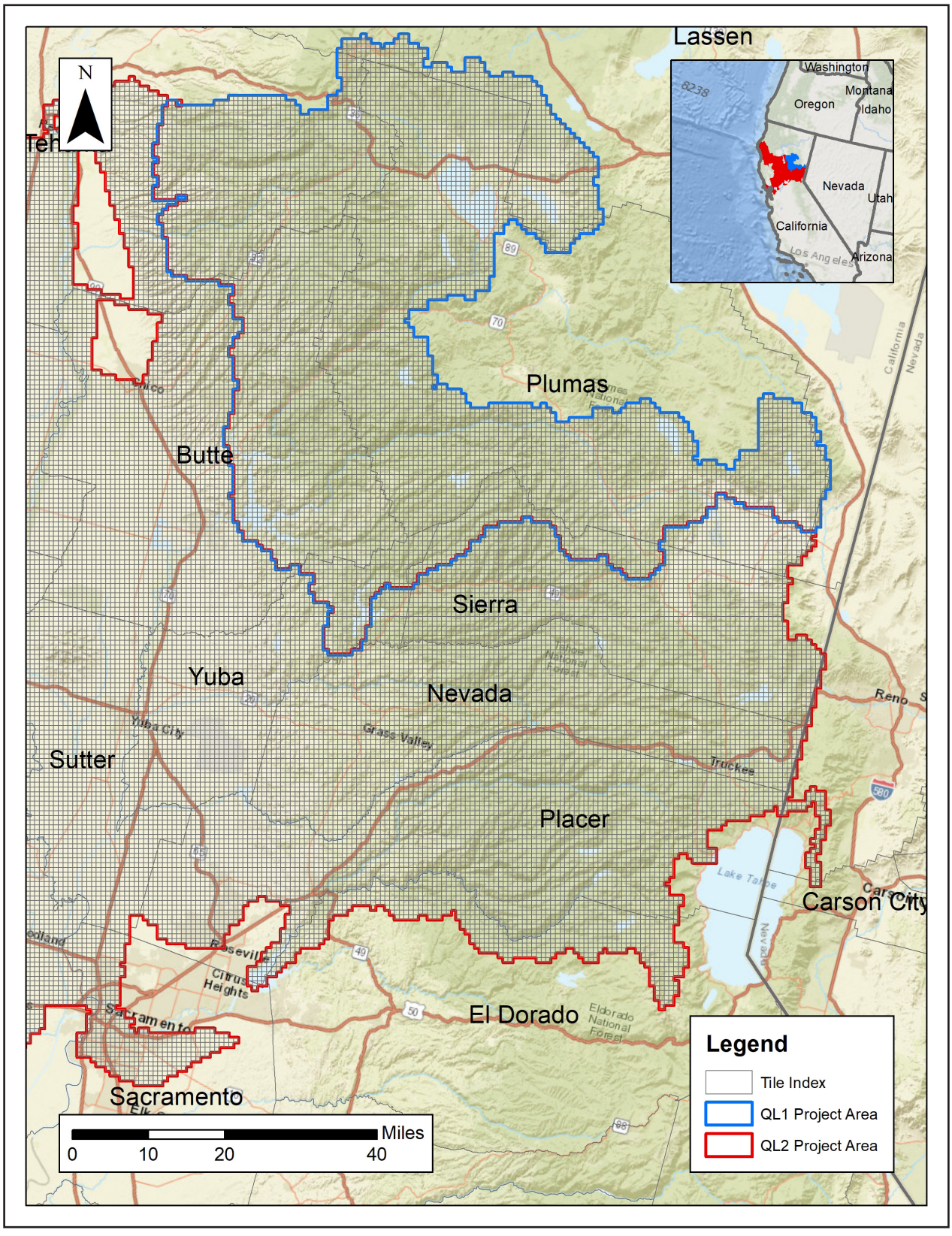
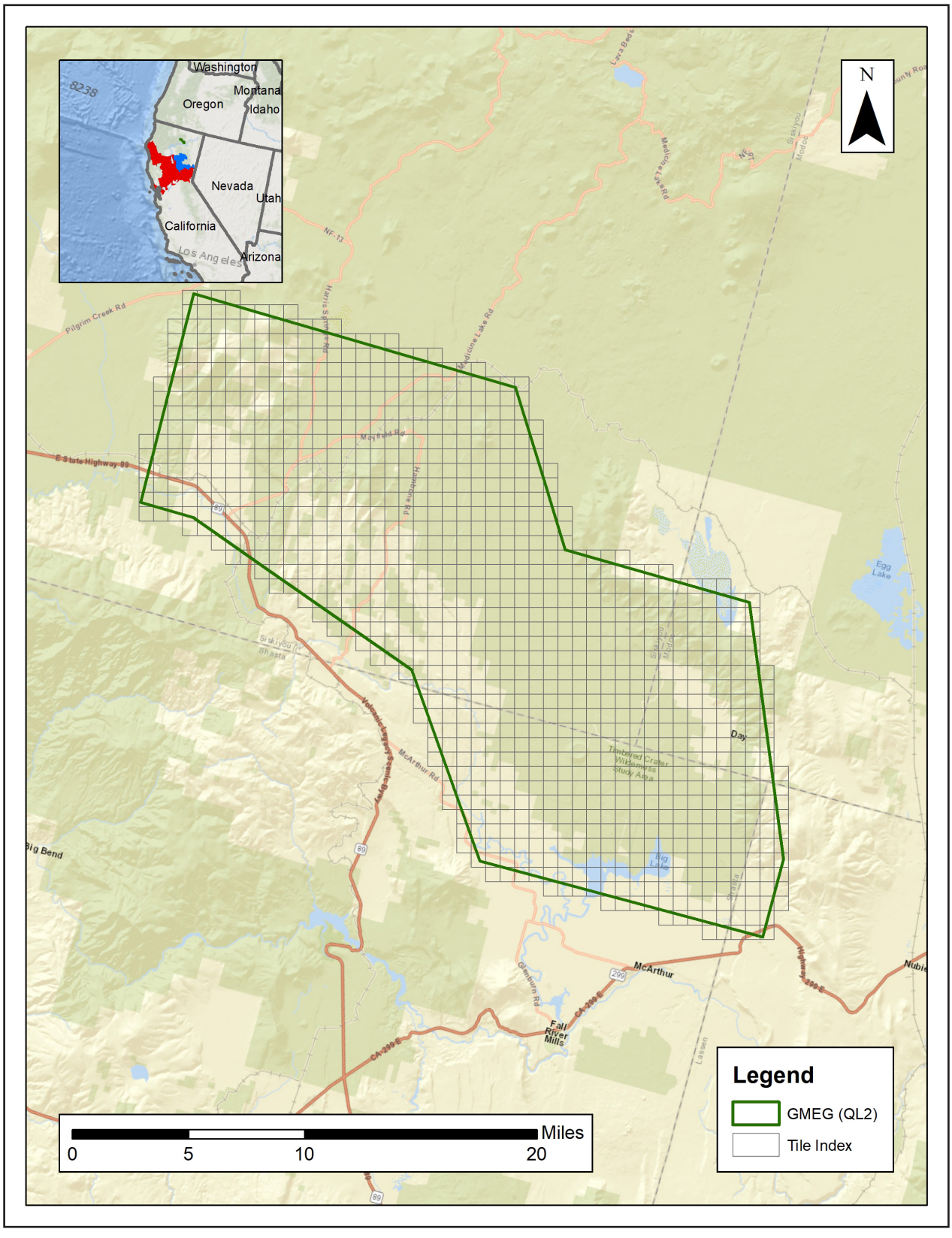


Figure 11. LiDAR Tile Layout - GMEG



4. Project Coverage Verification

Coverage verification was performed by comparing coverage of processed .LAS files captured during project collection to generate project shape files depicting boundaries of specified project areas. Please refer to Figure 7.

Figure 12. LiDAR Flightline Coverage - Southwest

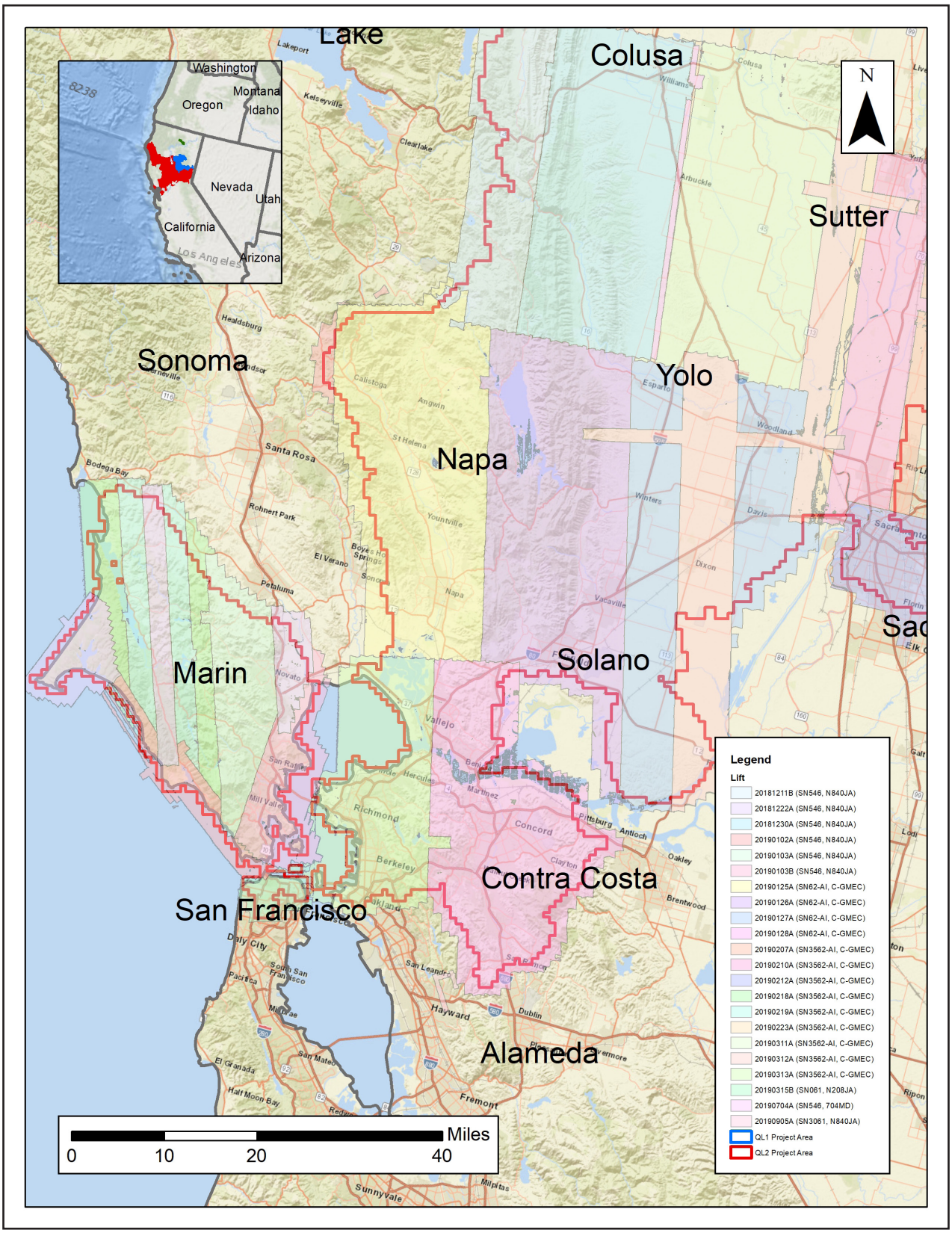


Figure 13. LiDAR Flightline Coverage - Northwest

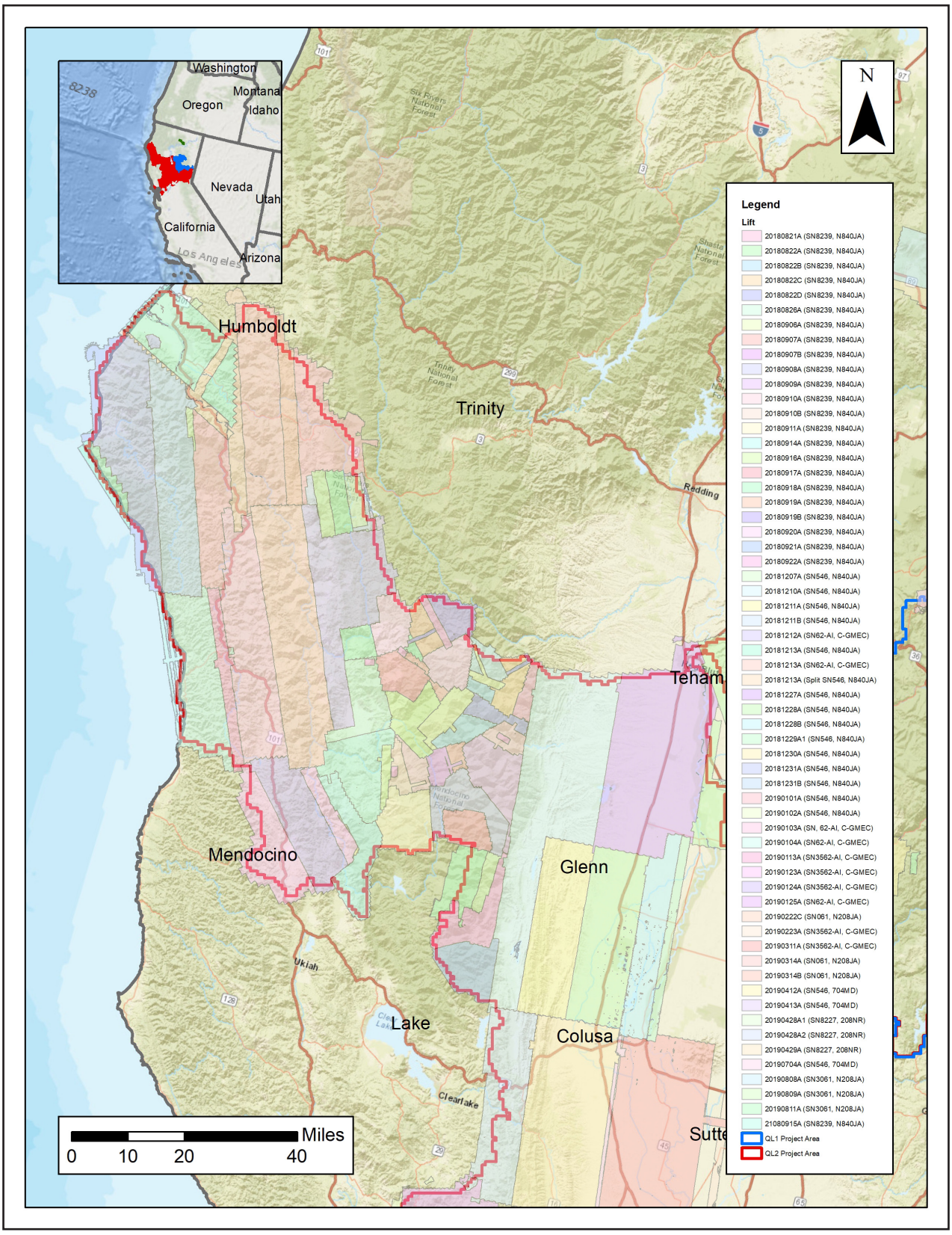


Figure 14. LiDAR Flightline Coverage - Northeast

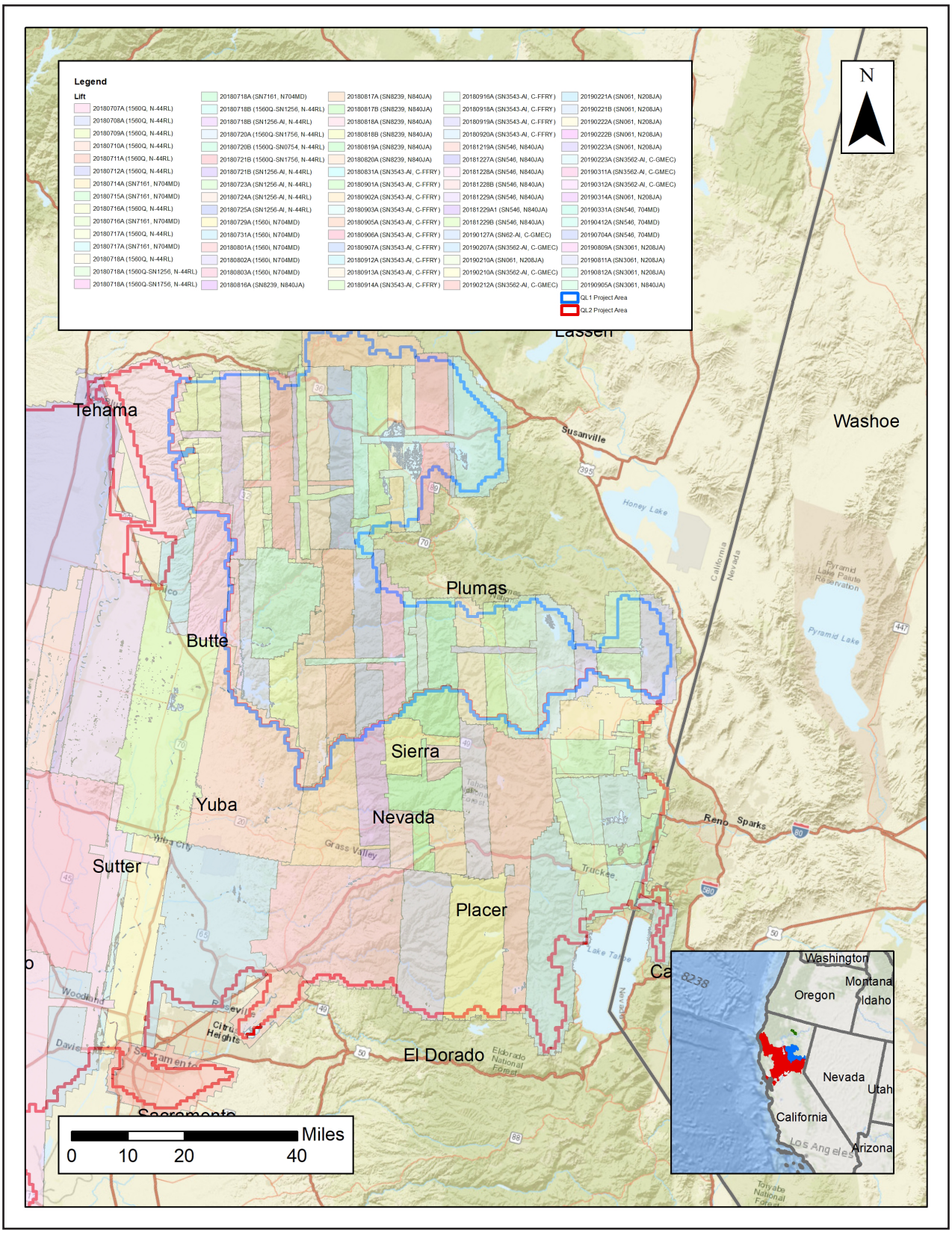
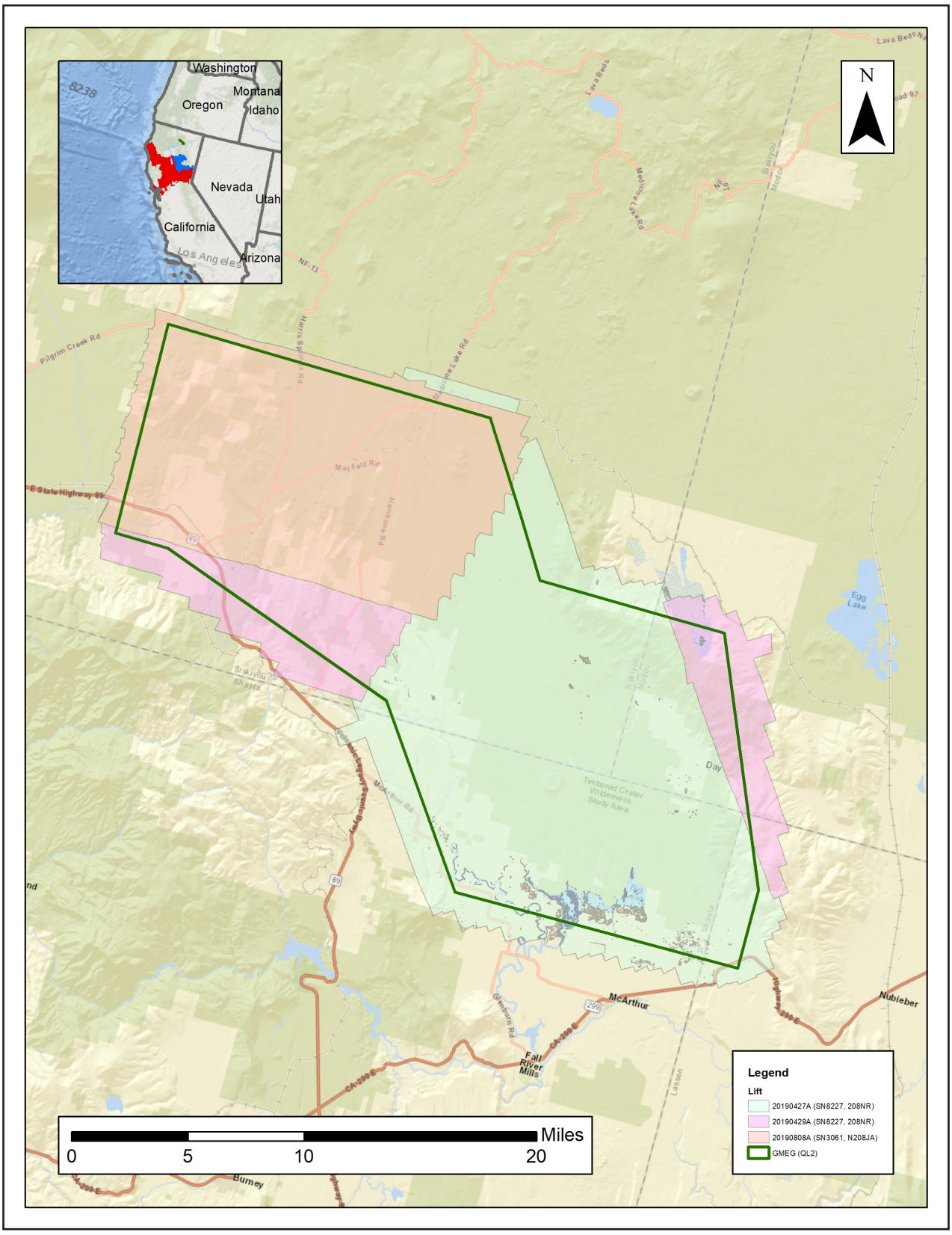


Figure 15. LiDAR Flightline Coverage - GMEG



5. Ground Control and Check Point Collection

Quantum Spatial completed a field survey of 387 ground control (calibration) points along with 678 blind QA points in Non-Vegetated and Vegetated land cover classifications (total of 1065 points) as an independent test of the accuracy of this project.

A combination of precise GPS surveying methods, including static and RTK observations were used to establish the 3D position of ground calibration points and QA points for the point classes above. GPS was not an appropriate methodology for surveying in the forested areas during the leaf-on conditions for the actual field survey (which was accomplished after the LiDAR acquisition). Therefore the 3D positions for the forested points were acquired using a GPS-derived offset point located out in the open near the forested area, and using precise offset surveying techniques to derive the 3D position of the forested point from the open control point. The explicit goal for these surveys was to develop 3D positions that were three times greater than the accuracy requirement for the elevation surface. In this case of the blind QA points the goal was a positional accuracy of 5 cm in terms of the RMSE.

For more information, see the Survey Report in Appendix A.

The required accuracy testing was performed on the LiDAR dataset (both the LiDAR point cloud and derived DEM's) according to the USGS LiDAR Base Specification Version 1.3 (2018).

5.1. Calibration Control Point Testing

Figure 8 shows the location of each bare earth calibration point for the project area. TerraScan was used to perform a quality assurance check using the LiDAR bare earth calibration points. The results of the surface calibration are not an independent assessment of the accuracy of these project deliverables, but the statistical results do provide additional feedback as to the overall quality of the elevation surface.

5.2. Point Cloud Testing

The project specifications require that only Non-Vegetated Vertical Accuracy (NVA) be computed for raw lidar point cloud swath files. The required accuracy (ACCz) is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the "bare earth" and "urban" land cover classes. The NVA was tested with 374 checkpoints located in bare earth and urban (non-vegetated) areas. These check points were not used in the calibration or post processing of the lidar point cloud data. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See survey report for additional survey methodologies.

Elevations from the unclassified lidar surface were measured for the x,y location of each check point. Elevations interpolated from the lidar surface were then compared to the elevation values of the surveyed control points. AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using RMSE(z) x 1.9600 as defined by the

National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASRPS Guidelines. See Figure 10.

5.3. Digital Elevation Model (DEM) Testing

The project specifications require the accuracy (ACCz) of the derived DEM be calculated and reported in two ways:

1. The required NVA is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the "bare earth" and "urban" land cover classes. This is a required accuracy. The NVA was tested with 380 checkpoints located in bare earth and urban (non-vegetated) areas. See Figure 10.

2. Vegetated Vertical Accuracy (VVA): VVA shall be reported for "shrub/brush," "forest," and "tall weed/crop" land cover classes. The target VVA is: 29.4 cm at the 95th percentile, derived according to ASPRS Guidelines, Vertical Accuracy Reporting for Lidar Data, i.e., based on the 95th percentile error in all vegetated land cover classes combined. This is a target accuracy. The VVA was tested with 298 checkpoints located in tall weed/crop, forest, and shrub/brush (vegetated) areas. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See Figure 11.

AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using RMSE(z) x 1.9600 as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ ASRPS Guidelines.

A brief summary of results are listed below. For more information, See the FOCUS on Accuracy report.

	Target	Measured	Point Count
Raw NVA	0.196	0.087	374
NVA	0.196	0.086	380
VVA	0.294	0.270	298

Figure 16. Calibration Control Point Locations

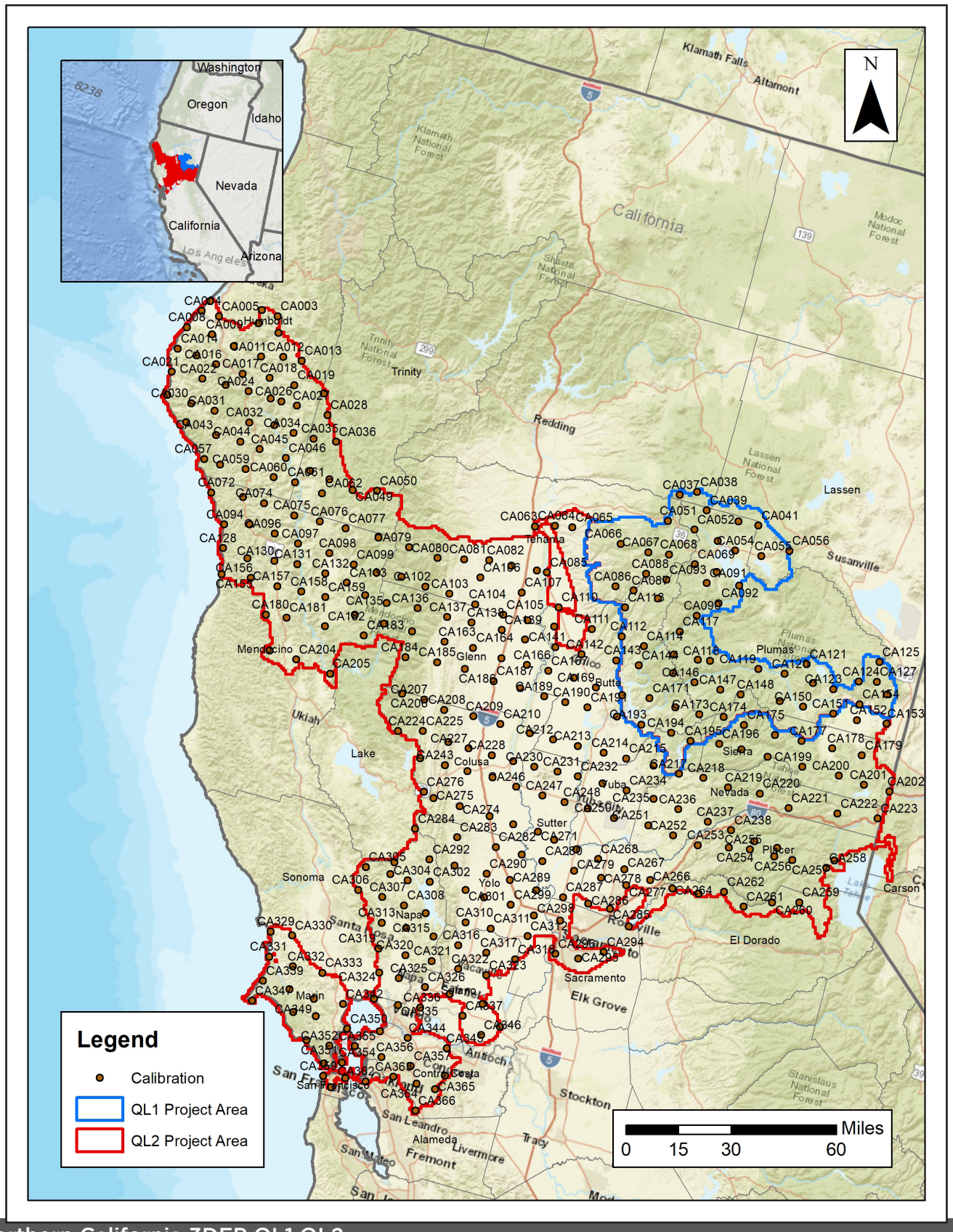


Figure 17. QC Checkpoint Locations - NVA

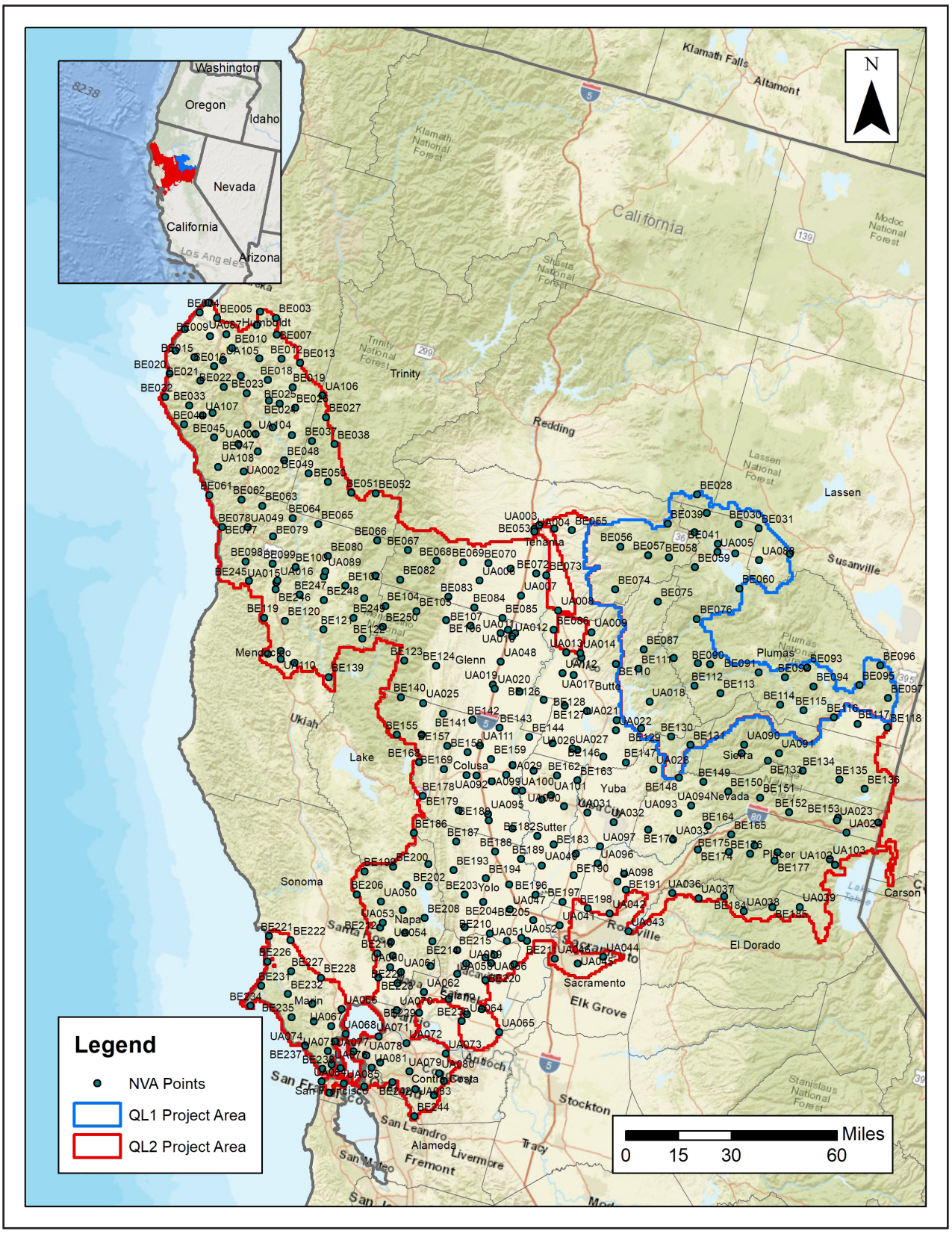
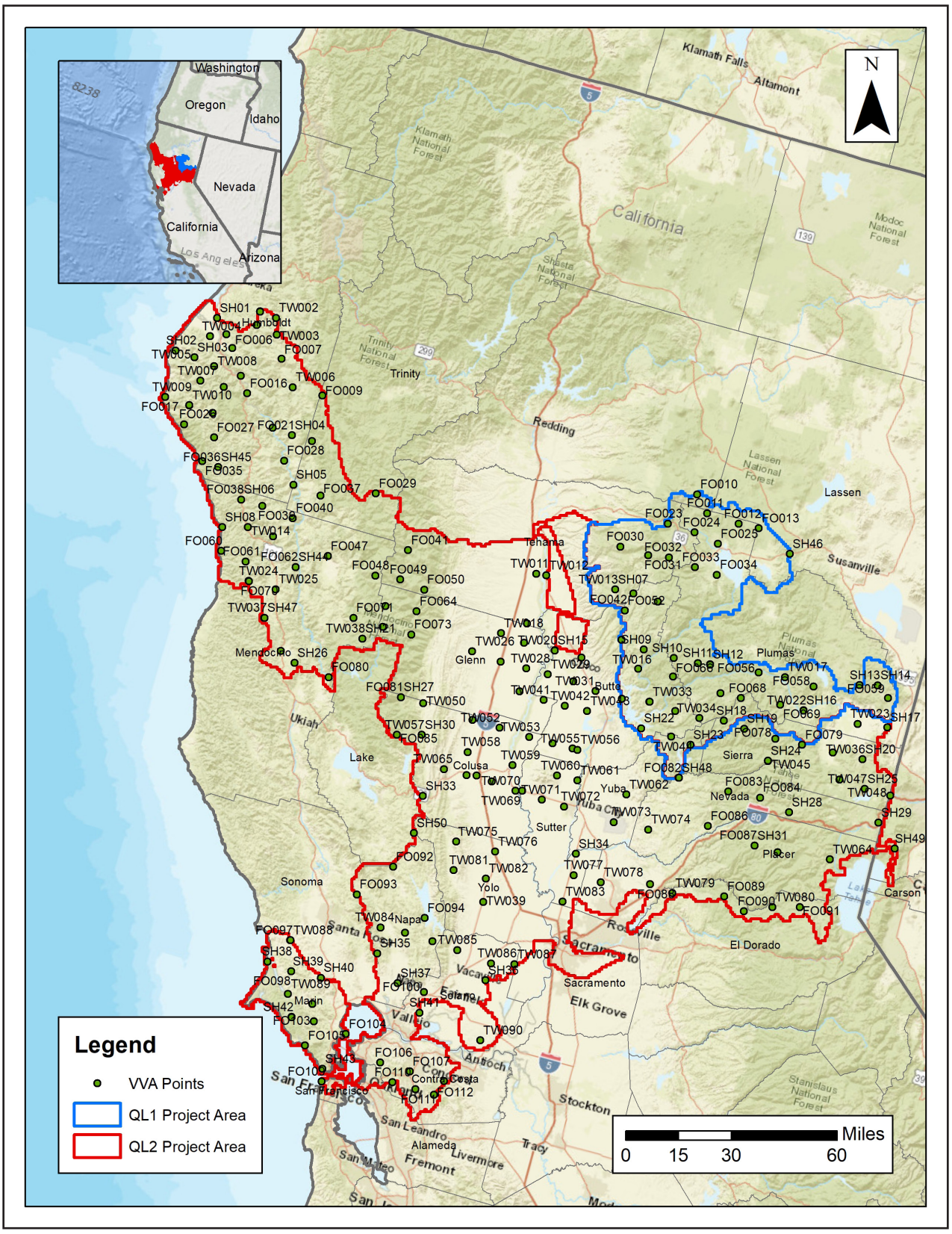


Figure 18. QC Checkpoint Locations - VVA



Project Report Appendices

The following section contains the appendices as listed in the Northern California 2018 LiDAR Project Report.

Appendix A

Survey Report

July 29, 2019

Survey Report of
LiDAR Calibration & Quality Control Points

USGS Contract: G16PC00016

Project: 140G0218F0251:
CA_NoCAL_3DEP_Supp_Funding2018_D18

USGS Task Order: 140G0218F0251:
CA_NoCAL_3DEP_Supp_Funding2018_D18

Presented to:

USGS
science for a changing world

Presented By:

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- Calibration Points.....19
- NVA - Bare Earth Points.....30

- NVA - Urban Area Points.....39
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- Calibration Points.....54
    - Brushy AOI.....427
    - Campfire AOI.....442
    - Marin AOI.....455
- NVA - Bare Earth Points.....474
    - Brushy AOI.....734
    - Campfire AOI.....768
    - Marin AOI.....789
- NVA - Urban Area Points.....816
    - Brushy AOI.....930
    - Campfire AOI.....931
    - Marin AOI.....939
- VVA - Tall Weed Point.....950
    - Brushy AOI.....1045
    - Campfire AOI.....1049
    - Marin AOI.....1053

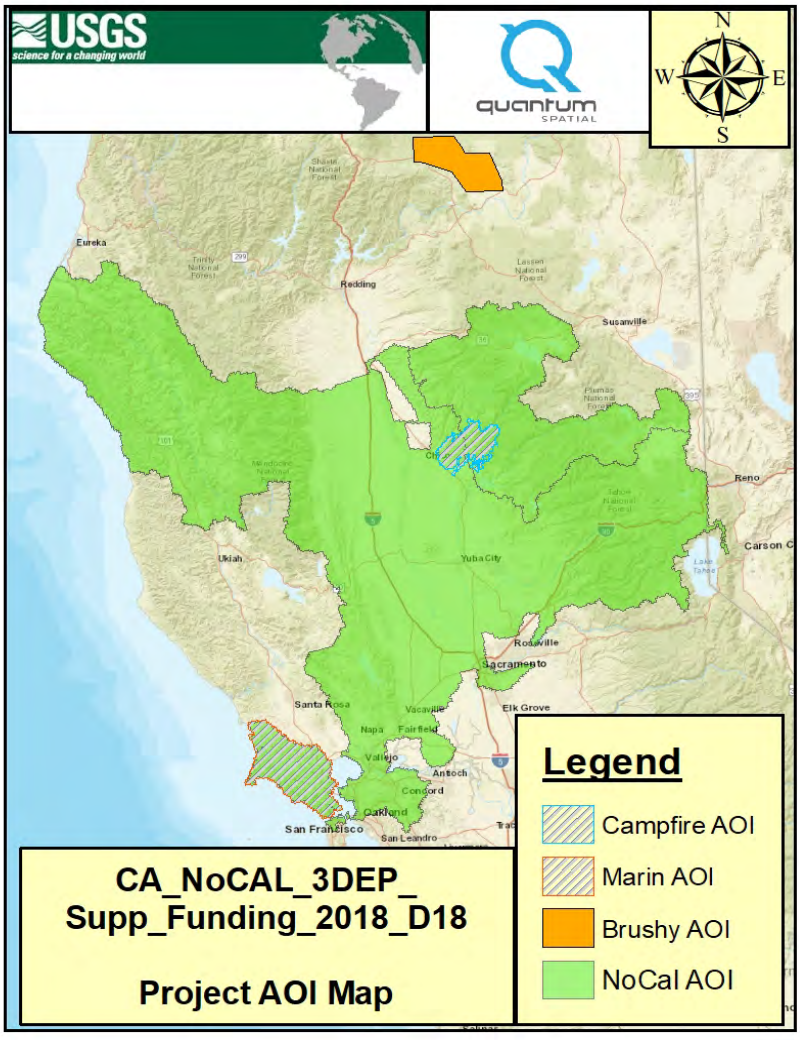
- VVA - Shrub Points.....1067
    - Brushy AOI.....1120
    - Campfire AOI.....1123
    - Marin AOI.....1126
- VVA - Forest Points.....1132
    - Brushy AOI.....1245
    - Campfire AOI.....1266
    - Marin AOI.....1276

Introduction

Quantum Spatial, Inc. was contracted by USGS under task order 140G0218F0251 to survey LiDAR calibration and quality control points in support of CA_NoCAL_3DEP_Supp_Funding2018_D18 which encompassed the project area to support QL1 accuracy. In addition, the areas commonly known as Brushy, Campfire, and Marin AOIs support the QL2 accuracy. This is the report of the technical approach used and detail of each point surveyed.

Project Area

The NoCal AOI, shown in the figure below, consist of approximately 19,990 square miles, this includes the Marin AOI and the Campfire AOI. An additional area referred to as Brushy consists of approximately 237 square miles.



Technical Approach to Land Cover Validation Point Selection

Referencing ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, - November, 2014) table C.1 Recommended Number of Checkpoints based on Area, Quantum Spatial calculated the total number of checkpoints required for the entire project areas. It was determined that 470 Non-Vegetated Vertical Assessment (NVA) and 328 Vegetated Vertical Assessment (VVA) points are required for this project area.

To ensure that checkpoints were distributed generally proportionate among the various vegetated land cover types, Quantum Spatial used existing USGS Land Cover data to divide both the NVA and VVA categories among the various types, calculating the approximate number of required points in each representative type proportionate to the total project area. The resulting point classes are detailed below:

NVA Class	# of Points
Bare Earth	337
Urban Area	133

VVA Class	# of Points
Forested	152
Tall Weeds/Crops	176

Quantum Spatial has adopted the philosophy that each vegetative class must be well distributed throughout the project area. While points in varying classes may be near to one another, points of a single vegetative class may not. Proposed point locations are selected with this distribution methodology in mind.

Survey Accuracy Requirements

Given that the survey accuracy of calibration and quality control check points should be 3 times more accurate than the required accuracy of the data set, Quantum Spatial requires that calibration and NVA points are better than 3 centimeters RMSE, both horizontally and vertically, and that VVA points be better than 5 centimeters RMSE, both horizontally and vertically. The surveyed accuracy of each point must be determined through redundant measurements and/or network adjustment using procedures and methodologies that reliably and consistently result in the aforementioned accuracies.

Due to variances in reference control accuracy and adjustment, Quantum Spatial requires that the survey methodology used be explained, so that it can be repeated if necessary.

Field Survey Methodology

Date Range: July 1, 2018 – July 15, 2019

Equipment Used**:**

Field crews used Trimble R6, R7, and R8 dual frequency GNSS receivers as base stations and rovers.

GNSS Methodology:

A combination of fast static and RTK GPS surveying methods were used during this project. Temporary marks were established and used as base stations for RTK and airborne surveys. The fast static GPS method consisted of collecting a minimum 15 minutes of static data. The data was downloaded and baselines processed to NGS CORS and virtual Trimble VRSNow base stations. The network was adjusted holding the CORS as control.

A total station was used to determine the positions of VVA-Forest points under the tree canopy. After backsight and instrument station positions were established with GNSS observations in open areas, a total station was used to observe the foresighted Forest point.

All the GNSS and conventional information was downloaded, processed and analyzed using Trimble Business Center processing software. A network was formed and adjusted.

Overall Project Accuracy Statement

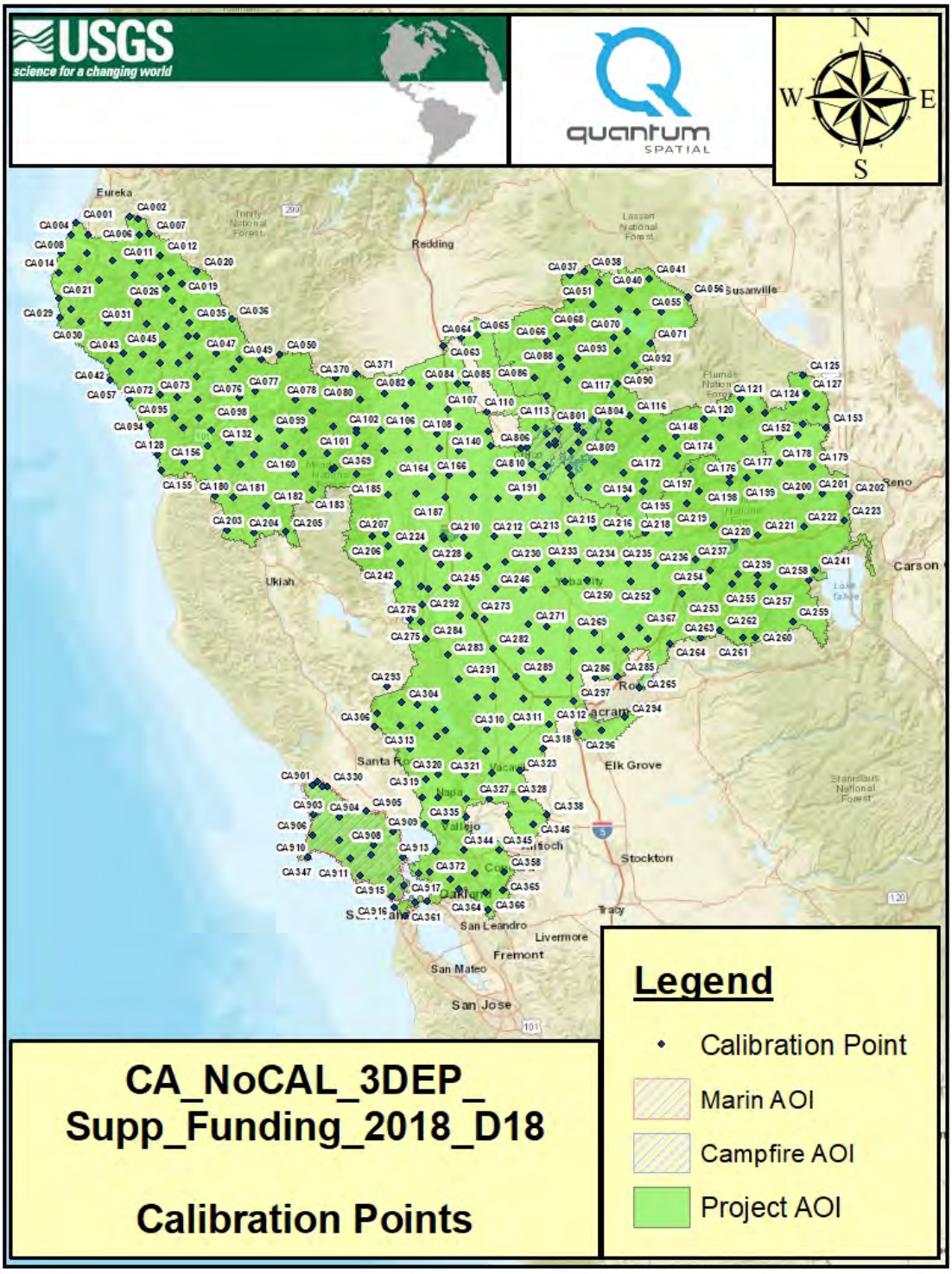
All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011). Universal Transverse Mercator Zone 10 (UTM10) coordinates in meters horizontally. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 12B model and are reported in meters.

<u>Calibration Points</u>
Average Horizontal RMSE is 0.015 meter.
Average Elevation RMSE is 0.020 meter.
Average 3 dimensional RMSE is 0.025 meter.

NVA Points
Average Horizontal RMSE is 0.015 meter.
Average Elevation RMSE is 0.020 meter.
Average 3 dimensional RMSE is 0.025 meter.

VVA Points
Average Horizontal RMSE is 0.020 meter.
Average Elevation RMSE is 0.024 meter.
Average 3 dimensional RMSE is 0.031 meter.

Project AOI & Point Location Maps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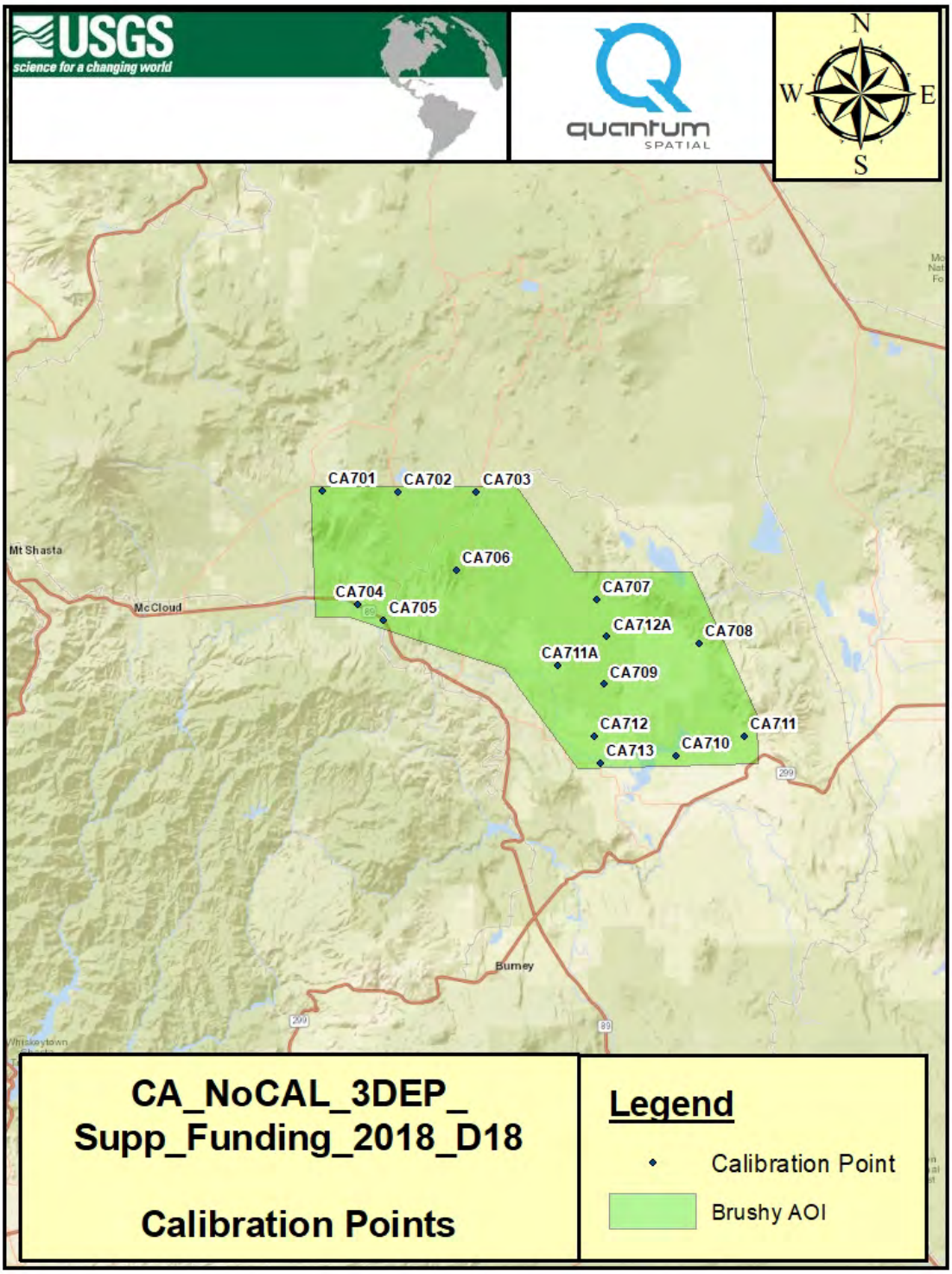
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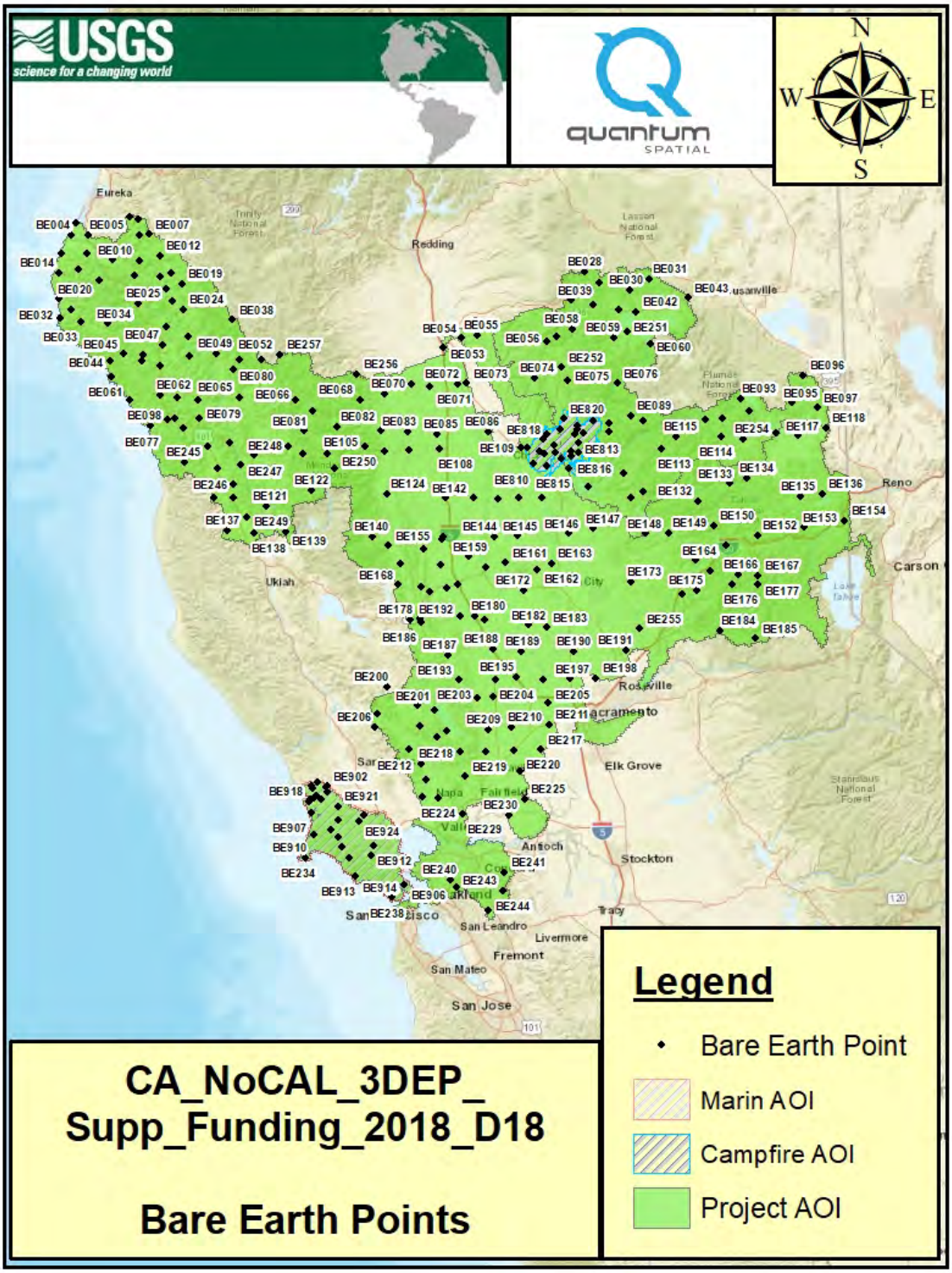
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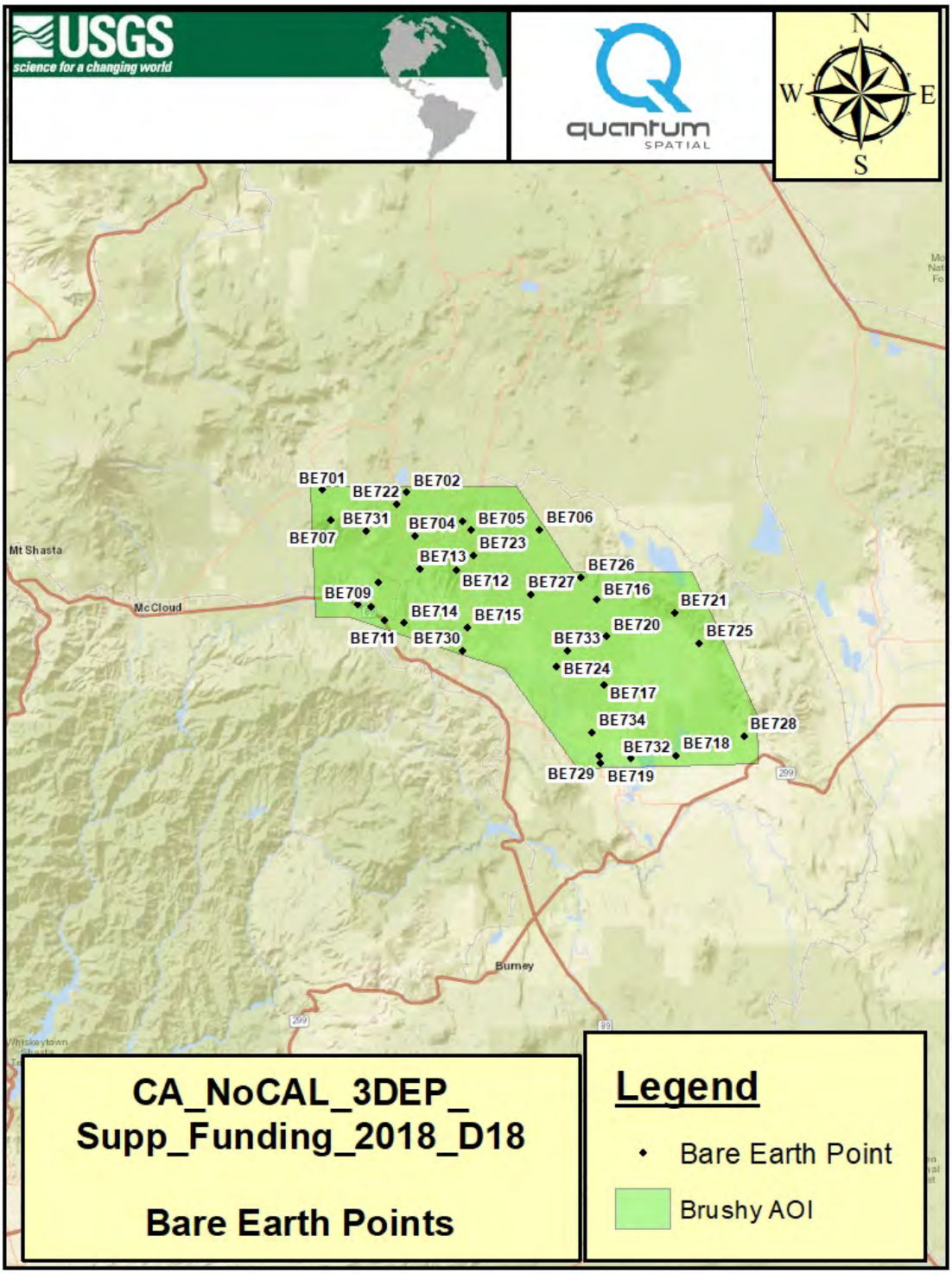
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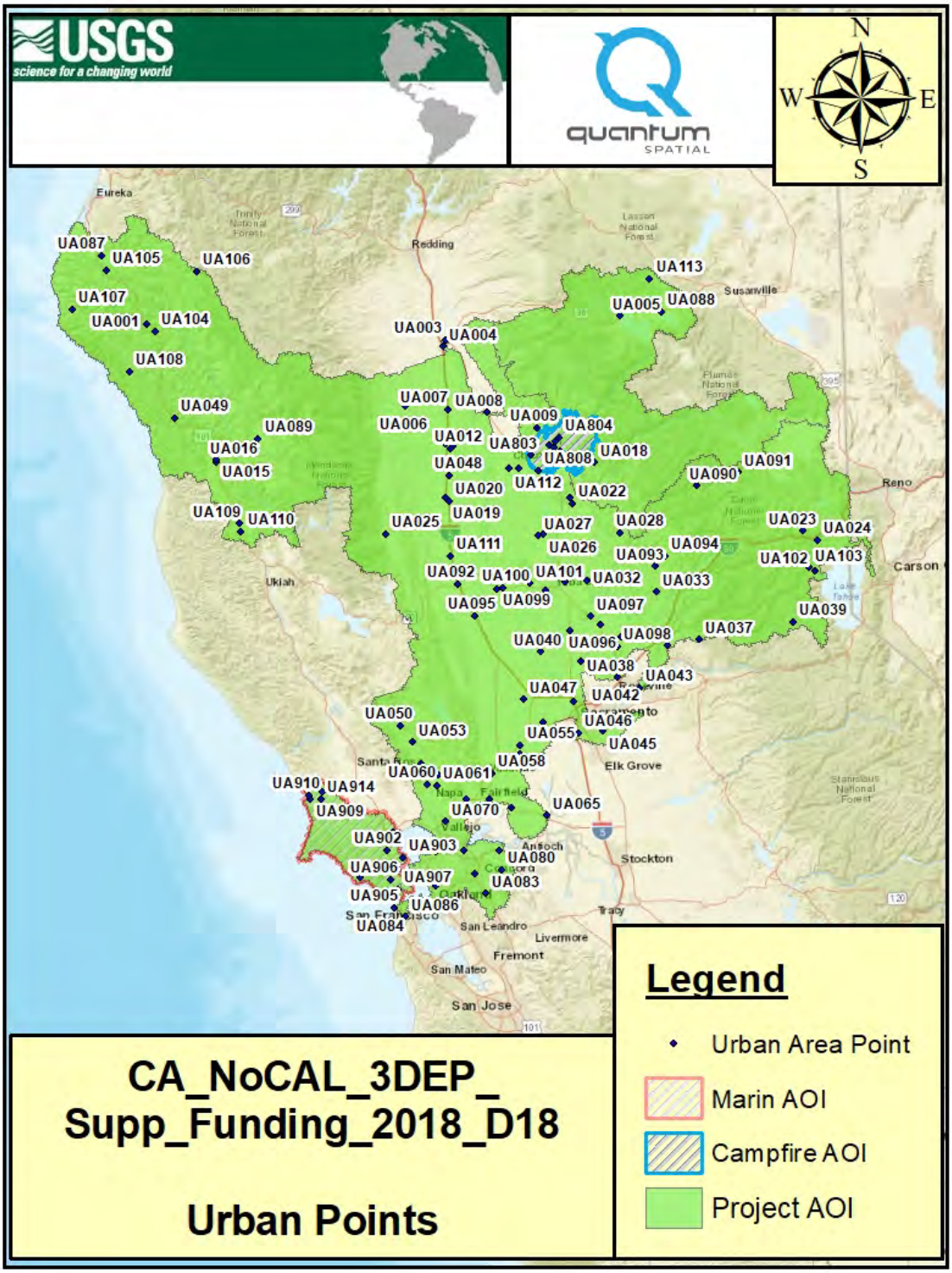
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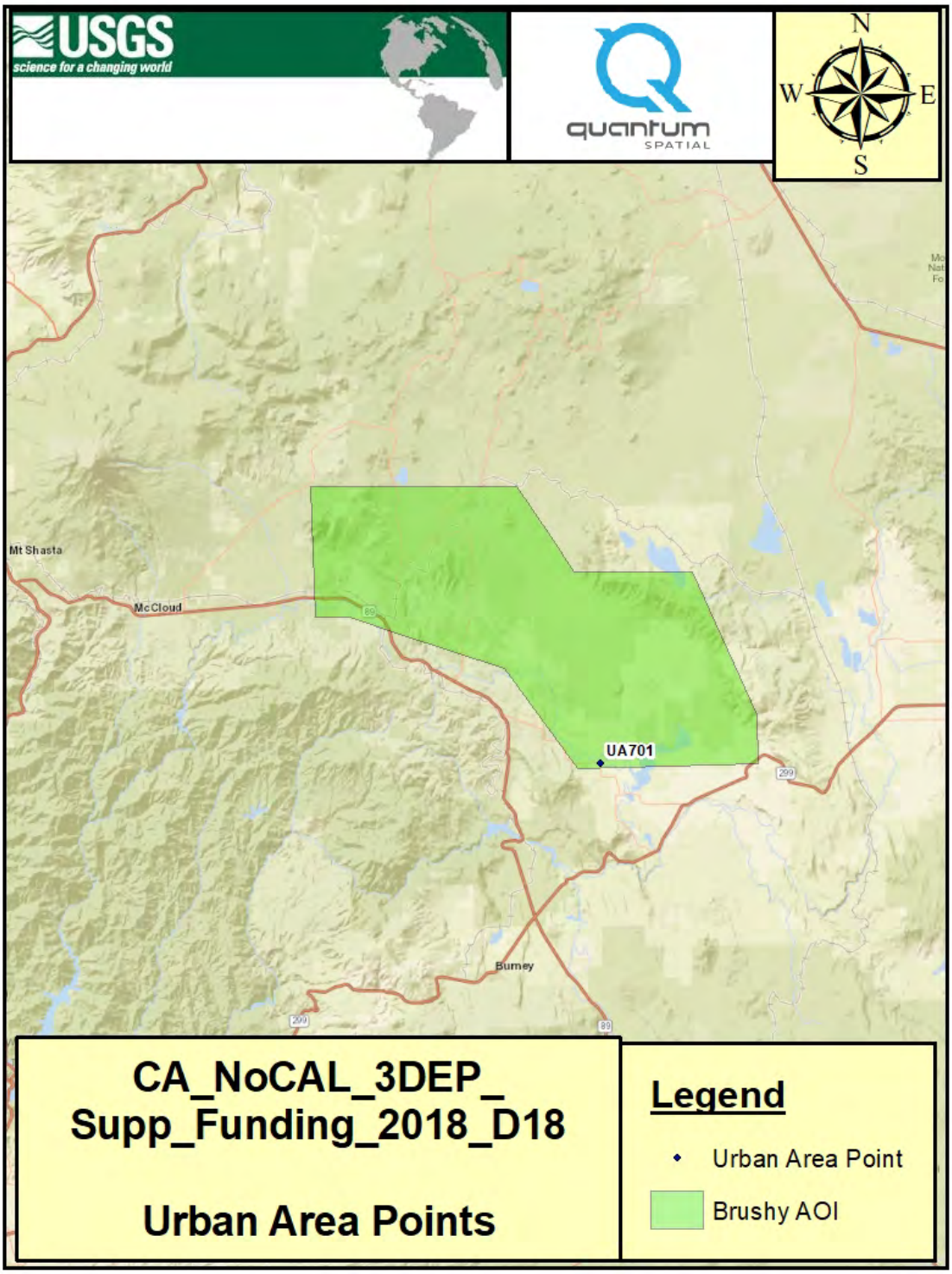
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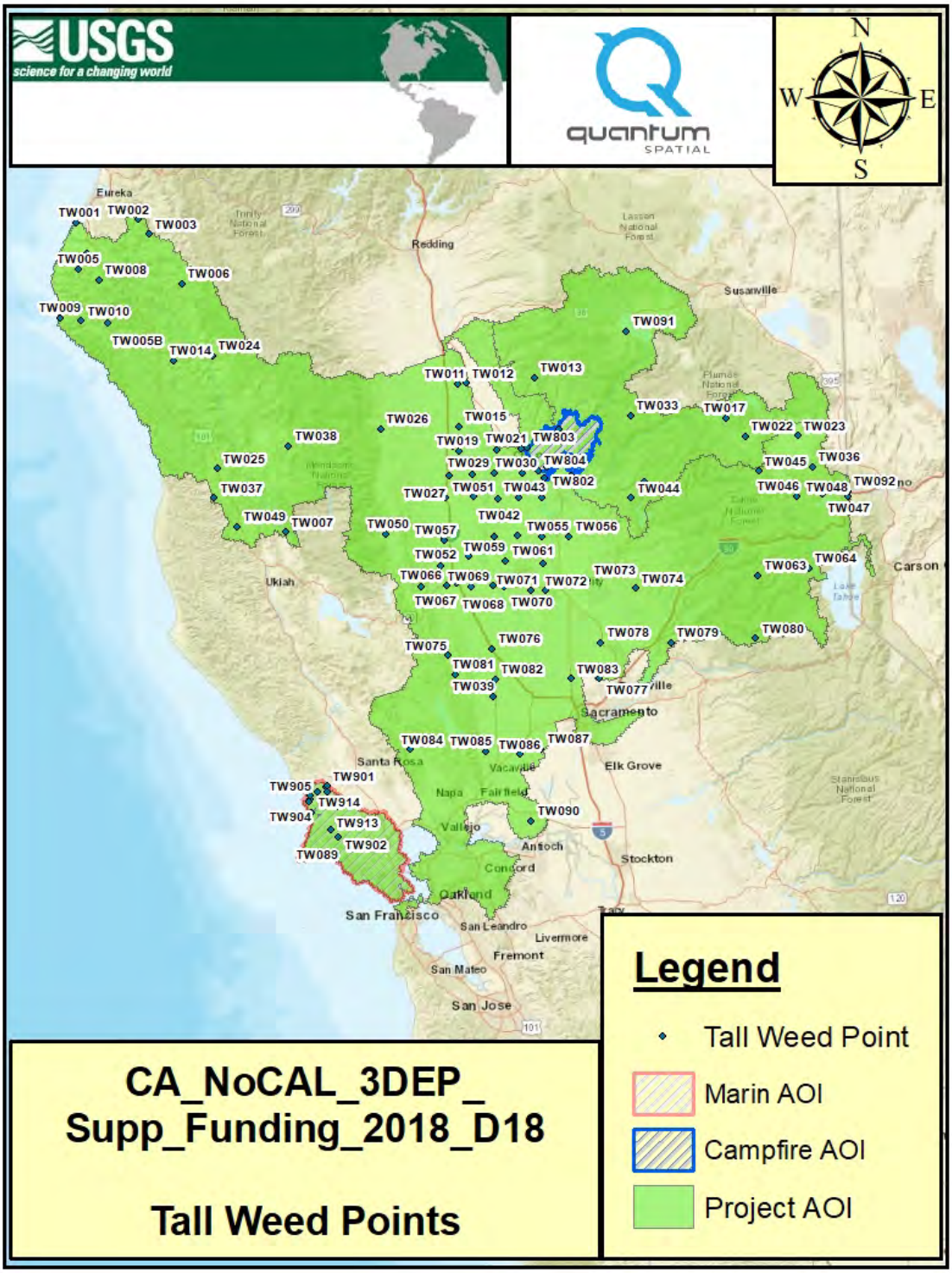
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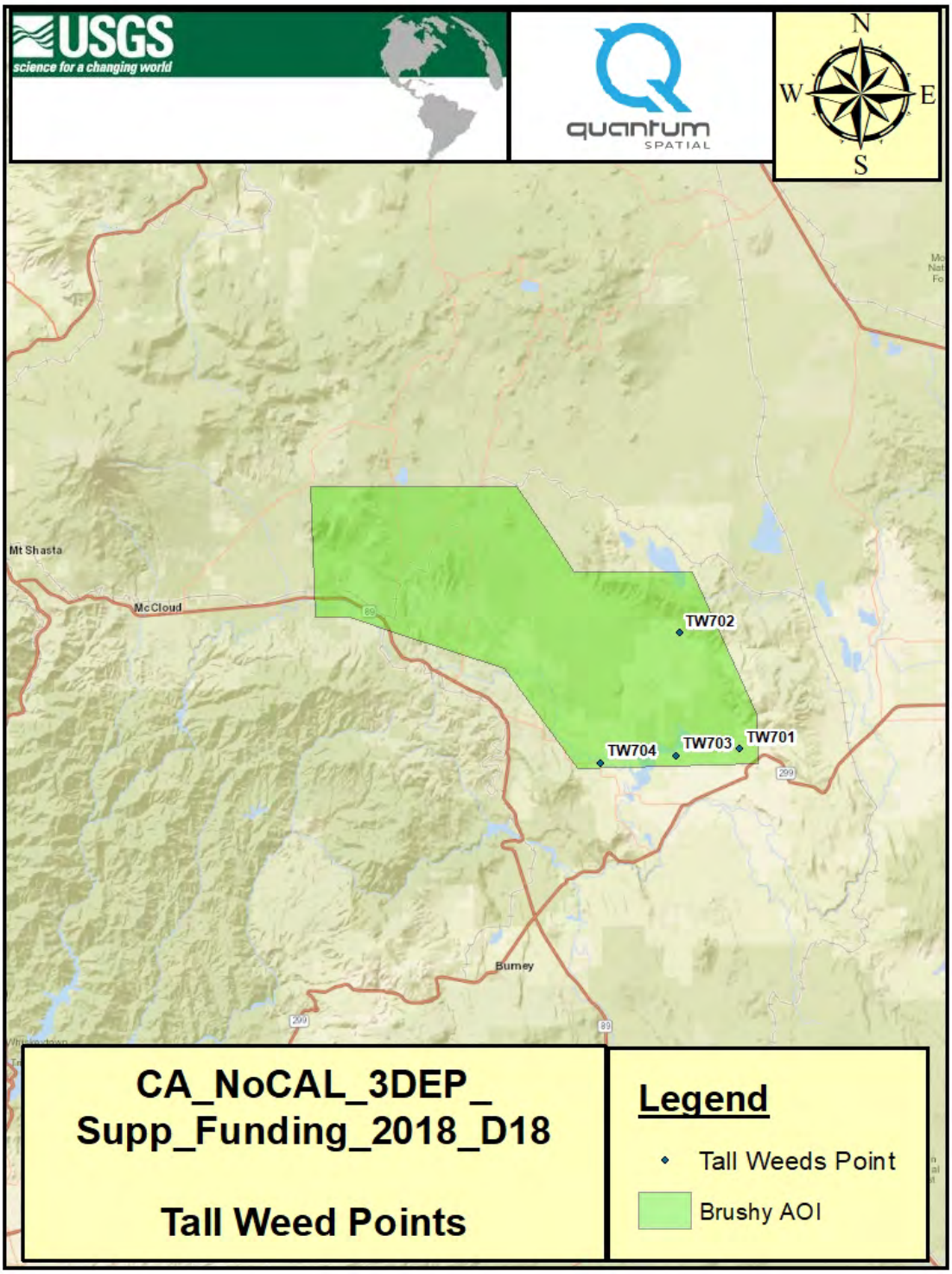
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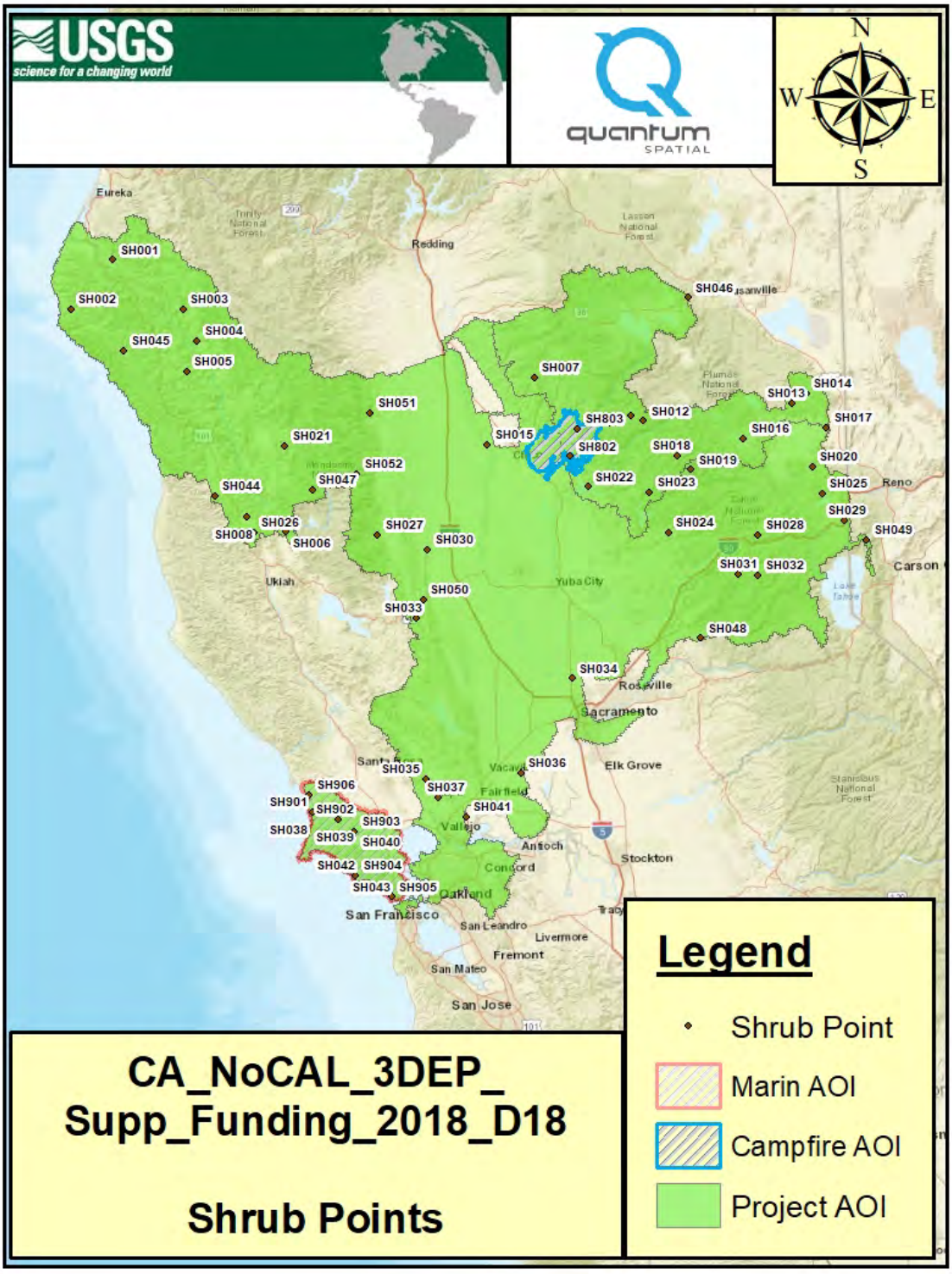
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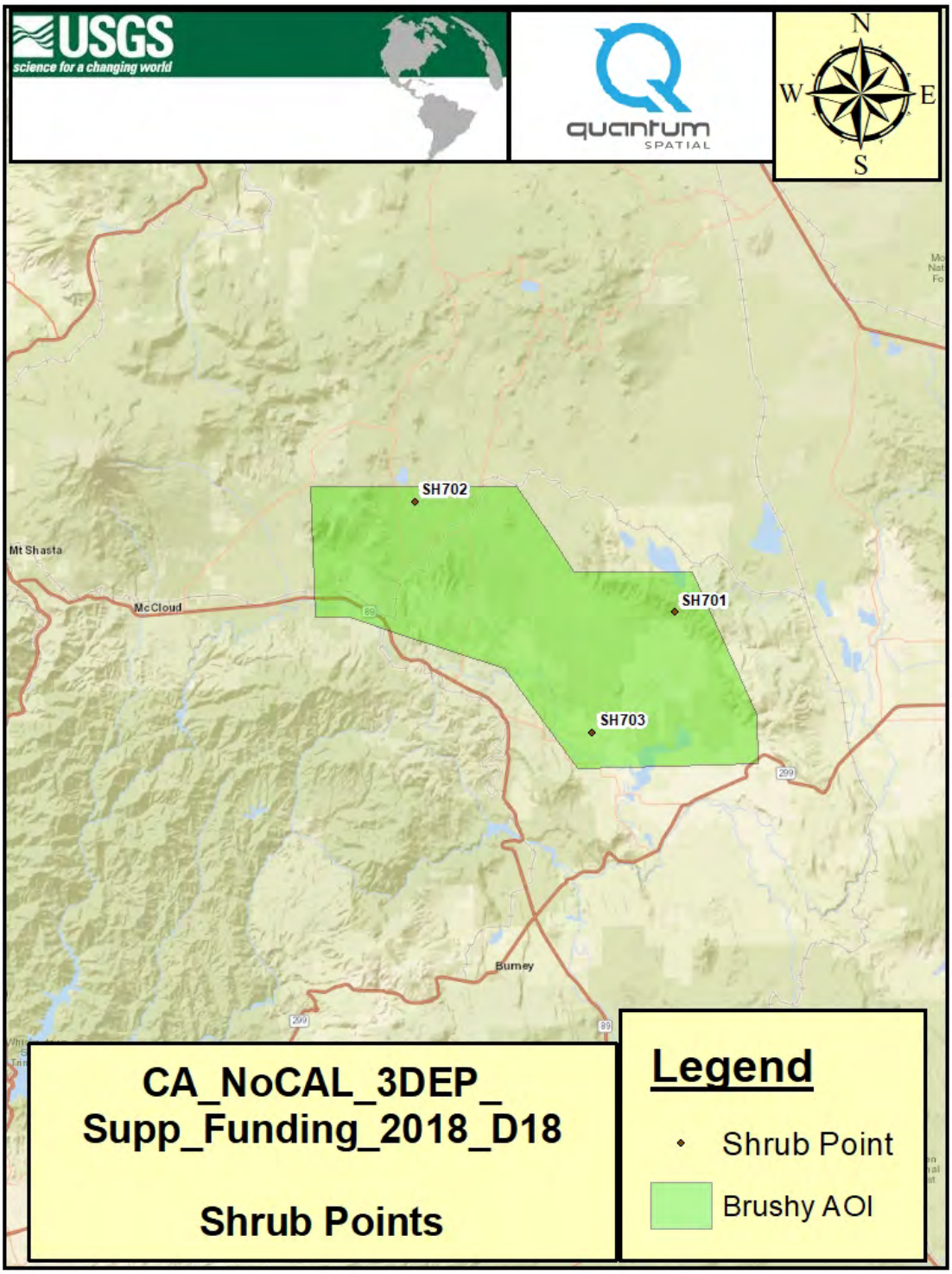
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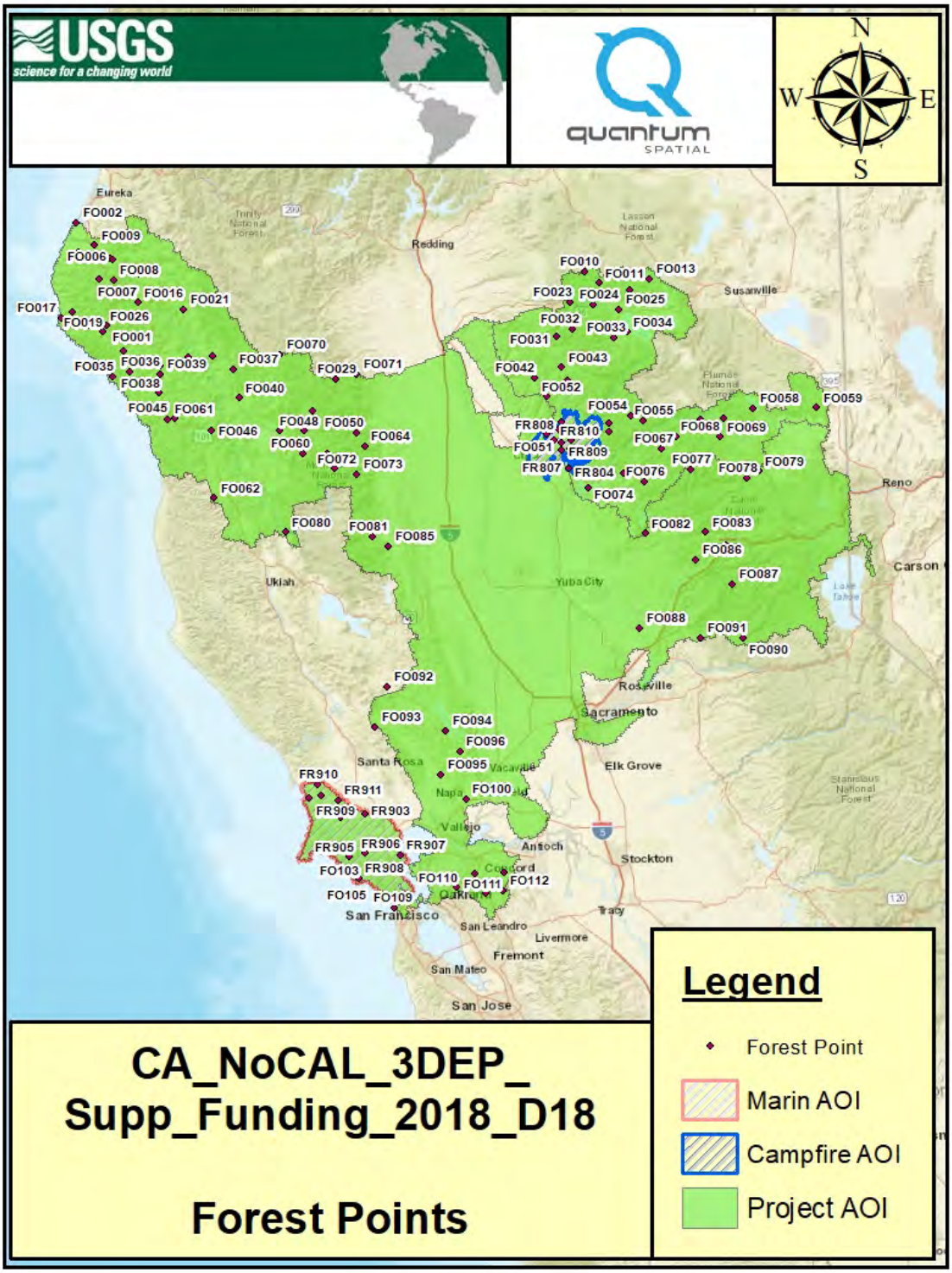
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FR804
FO076
FO077
FO078
FO079
FO074
FO082
FO083
FO086
FO087
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FO100
FR910
FR911
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FR905
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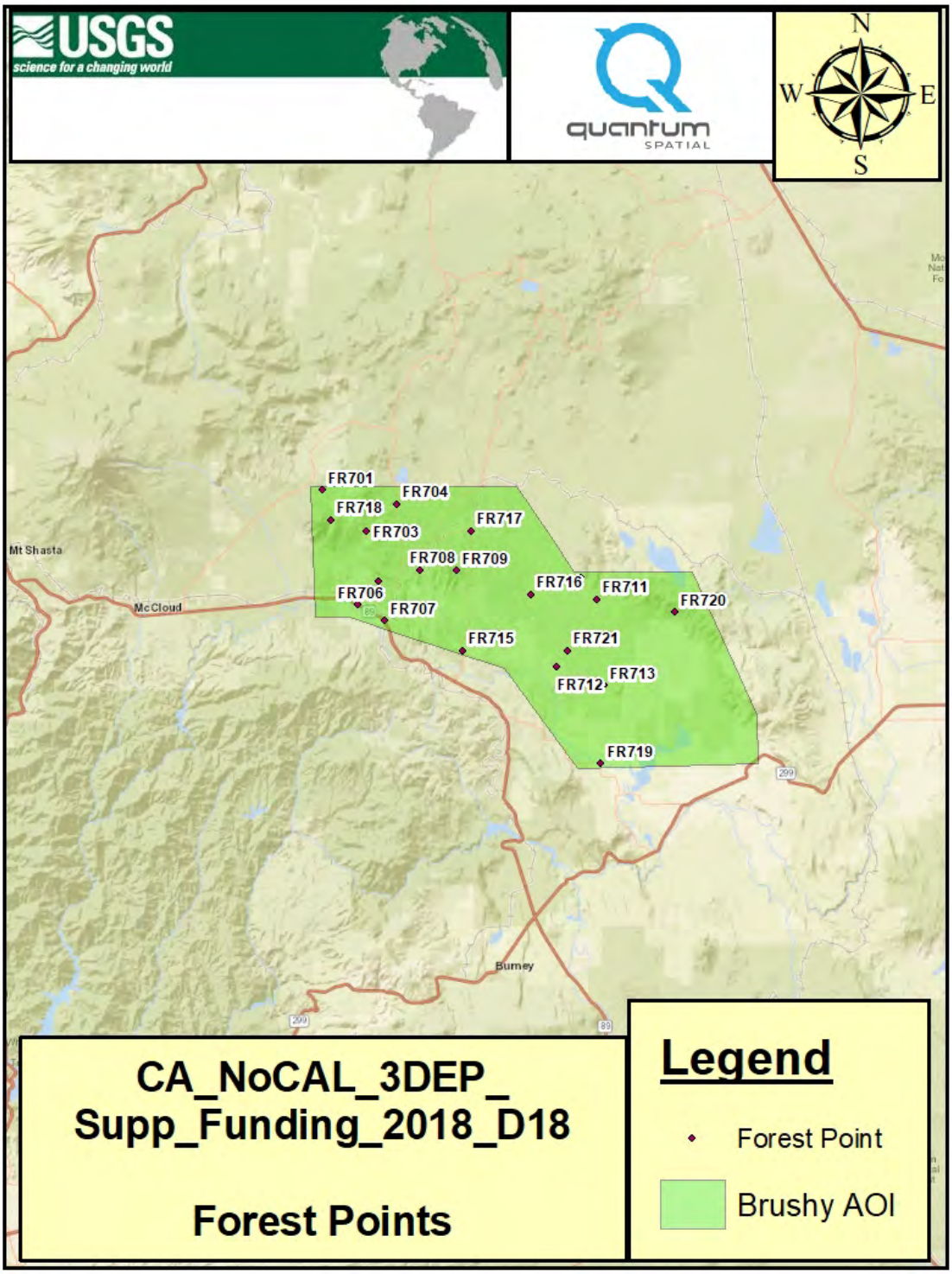
FO103
FR908
FO110
FO111
FO112
FO105
FO109
Legend
Forest Point
Marin AOI
Campfire AOI
Project AOI
CA_NoCAL_3DEP_
Supp_Funding_2018_D18
Forest Points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Mt Shasta
McCloud
Burney
CA_NoCAL_3DEP_
Supp_Funding_2018_D18
Forest Points
Legend
Forest Point
Brushy AOI

Final Point Coordinates

Calibration Point Coordinates

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CA001	4505324.601	392402.786	23.313
CA002	4508746.238	417888.830	814.997
CA003	4507199.002	422055.933	825.438
CA004	4499975.157	389788.947	3.048
CA005	4499787.192	398173.063	97.580
CA006	4499642.460	422176.213	760.234
CA007	4500121.765	426816.775	762.697
CA008	4490949.636	385419.266	101.423
CA009	4491399.314	397428.597	10.928
CA010	4487979.860	409832.275	39.320
CA011	4487524.877	422192.818	689.274
CA012	4490184.006	432093.310	994.478
CA013	4481664.874	437148.371	653.004
CA014	4481974.221	384528.214	280.414
CA015	4483592.445	393375.458	611.182
CA016	4478488.261	403208.891	593.409
CA017	4481021.872	419793.979	90.501
CA018	4480072.358	432050.019	208.813
CA019	4476857.649	442368.943	751.042
CA020	4482504.806	449616.742	729.165
CA021	4469535.674	384369.955	10.059
CA022	4464866.014	389890.608	37.121
CA023	4467608.998	421502.800	52.311
CA024	4467774.823	421661.404	51.933
CA025	4464675.293	443072.149	362.619
CA026	4474591.906	435203.341	509.651
CA027	4468887.217	437978.228	359.444
CA028	4451685.786	449249.928	156.528
CA029	4460722.328	384739.070	5.253
CA030	4459104.106	394616.498	59.068

CA031	4458017.403	407581.886	714.978
CA032	4457659.476	425980.538	62.941
CA033	4456238.345	435024.920	646.381
CA034	4451983.361	445692.608	109.820
CA035	4458433.568	446024.960	468.577
CA036	4459795.913	466454.261	1173.215
CA037	4480515.267	625953.335	2496.151
CA038	4482634.031	633151.274	2105.014
CA039	4477184.486	640031.500	1611.217
CA040	4473812.855	654603.699	1837.266
CA041	4478939.955	663605.475	1769.521
CA042	4440203.383	408319.514	760.857
CA043	4443602.858	415028.569	207.308
CA044	4442986.363	424281.193	407.531
CA045	4448049.859	433590.797	80.874
CA046	4442528.990	446287.184	576.754
CA047	4443787.322	458708.040	1011.104
CA048	4440789.220	469684.895	853.694
CA049	4441038.269	480059.917	1401.452
CA050	4443187.600	488749.723	1699.237
CA051	4469076.766	626511.833	1480.500
CA052	4467001.423	636908.517	1778.795
CA053	4464776.14	649290.849	1415.888
CA054	4463350.533	657805.625	1489.408
CA055	4463360.121	669247.728	1551.745
CA056	4470179.575	681928.681	1702.725
CA057	4431151.535	408713.716	19.356
CA058	4435212.127	417784.948	296.138
CA059	4439352.233	432431.488	164.829
CA060	4439431.760	441015.492	918.440
CA061	4432764.980	449624.486	672.733
CA062	4436465.241	466530.802	1013.958
CA063	4447055.472	566180.632	81.097
CA064	4451050.856	574561.752	240.592
CA065	4452590.230	582551.805	333.794
CA066	4449495.630	615077.497	1261.224
CA067	4451705.655	619831.869	1665.930
CA068	4455650.872	627328.513	1477.037
CA069	4451463.143	646701.489	1422.783
CA070	4454086.686	653053.290	1390.385
CA071	4448629.625	664168.313	1401.894

CA072	4421850.595	417567.719	60.564
CA073	4424332.091	432149.937	240.501
CA074	4422786.336	440486.844	764.423
CA075	4421958.842	450310.723	1114.151
CA076	4422866.098	469508.167	582.632
CA077	4425894.182	477443.016	677.415
CA078	4422025.161	496403.166	1224.011
CA079	4416736.932	504490.953	1904.098
CA080	4422044.760	526659.414	1044.251
CA081	4424884.499	538514.070	294.231
CA082	4429685.257	551320.252	166.112
CA083	4428171.931	559847.147	118.004
CA084	4429648.144	572929.479	71.125
CA085	4429745.328	577104.110	65.222
CA086	4432441.957	609316.429	1225.854
CA087	4437277.699	622187.413	1328.674
CA088	4441740.484	621400.907	1335.277
CA089	4431088.497	625111.112	1589.208
CA090	4429645.657	648459.184	679.613
CA091	4445100.182	648794.492	1315.819
CA092	4437887.196	656755.225	914.838
CA093	4441480.073	629635.261	1506.700
CA094	4409460.622	427309.509	4.661
CA095	4413397.575	438928.876	287.456
CA096	4413307.763	450673.242	928.907
CA097	4407685.819	456444.518	1039.469
CA098	4412866.529	476700.882	739.592
CA099	4407448.025	488777.598	438.062
CA100	4407386.135	500560.155	1065.221
CA101	4409013.096	514426.065	1558.176
CA102	4408065.118	525083.809	1234.993
CA103	4407251.105	536840.517	222.120
CA104	4406671.590	549394.049	163.671
CA105	4405637.988	563280.442	98.624
CA106	4418862.269	548054.318	172.403
CA107	4417467.670	568429.660	84.023
CA108	4409069.652	573519.588	65.775
CA109	4406988.025	587407.135	47.970
CA110	4415998.302	586757.965	63.795
CA111	4408463.791	610296.062	515.507
CA112	4408106.081	621143.934	686.923

CA113	4423493.177	615343.591	1019.935
CA114	4407955.086	629700.020	1004.644
CA115	4410705.345	644771.373	1642.258
CA116	4414569.475	654756.303	1578.748
CA117	4424251.785	645734.312	625.123
CA118	4411882.040	661049.474	1791.365
CA119	4412593.408	689966.866	1672.544
CA120	4413023.722	698604.112	1355.159
CA121	4422716.265	706934.612	1771.089
CA122	4417395.599	711248.846	2031.277
CA123	4415752.853	718516.931	1632.994
CA124	4420425.117	731563.428	1811.524
CA125	4433383.491	736408.791	1830.726
CA126	4418222.720	742976.772	1806.867
CA127	4425015.700	738019.064	1715.805
CA128	4395905.162	430825.935	28.214
CA129	4408780.208	443036.924	432.756
CA130	4400019.578	454534.092	456.327
CA131	4401515.390	465105.446	581.810
CA132	4403434.354	478656.157	423.157
CA133	4399997.065	491082.723	1090.873
CA134	4396413.791	499546.765	1613.516
CA135	4396377.789	511203.019	1969.002
CA136	4399890.274	529037.691	1296.994
CA137	4397566.809	538608.738	285.445
CA138	4398213.979	550129.536	156.206
CA139	4398842.740	564406.448	86.202
CA140	4397640.031	573547.046	64.731
CA141	4399997.051	588635.051	44.106
CA142	4398713.841	603250.650	76.863
CA143	4400407.725	619259.223	502.336
CA144	4397411.727	626816.561	619.799
CA145	4406697.819	644800.407	1555.512
CA146	4403216.723	661933.445	1685.826
CA147	4398856.373	669791.582	1541.902
CA148	4404734.063	676436.986	1725.154
CA149	4404236.679	697213.730	1667.997
CA150	4403394.304	708480.988	1409.390
CA151	4404107.088	725219.656	1489.737
CA152	4404950.825	734022.674	1491.365
CA153	4408610.032	747358.648	1588.961

CA154	4410265.137	736564.359	1495.713
CA155	4388431.872	432698.000	26.416
CA156	4392412.278	443562.810	455.903
CA157	4389347.994	459126.327	513.721
CA158	4391163.491	470468.249	316.321
CA159	4395786.420	476643.156	605.103
CA160	4386816.260	496517.681	1275.143
CA161	4388767.973	513495.598	1733.047
CA162	4386866.044	525111.547	1310.718
CA163	4386426.637	540590.037	214.450
CA164	4385281.340	560669.748	77.098
CA165	4386284.622	569053.027	51.218
CA166	4386726.251	580240.586	43.822
CA167	4387240.119	590457.542	35.838
CA168	4387189.103	603555.570	44.749
CA169	4385395.020	613749.567	59.505
CA170	4385911.035	626503.503	426.071
CA171	4392303.856	637983.462	779.742
CA172	4387159.611	651641.182	1193.989
CA173	4383229.672	661664.886	1082.539
CA174	4395459.245	676936.300	1394.382
CA175	4388857.487	683348.659	1823.610
CA176	4385311.766	701759.100	2477.820
CA177	4388227.226	715485.054	2044.928
CA178	4391945.025	725569.909	1531.636
CA179	4390054.013	740827.473	1657.816
CA180	4376384.097	458030.219	694.059
CA181	4375785.877	467051.208	734.397
CA182	4371600.425	482282.919	410.416
CA183	4379087.880	504065.693	1717.967
CA184	4355759.786	566419.463	32.319
CA185	4376539.902	539969.419	272.148
CA186	4377127.101	553167.057	122.066
CA187	4375530.436	567553.274	42.764
CA188	4375912.150	580275.023	29.849
CA189	4375292.237	591961.822	30.389
CA190	4375405.362	601987.803	31.084
CA191	4375669.375	612716.086	38.422
CA192	4375371.675	626014.259	101.601
CA193	4380544.766	634557.429	306.518
CA194	4375300.766	652759.239	860.284

CA195	4378568.150	660830.498	1136.951
CA196	4372791.526	681708.334	1396.539
CA197	4378592.677	687219.490	1566.773
CA198	4382406.288	702019.749	1456.087
CA199	4385091.956	709794.711	2234.071
CA200	4376208.756	735522.770	1905.022
CA201	4377605.345	745587.172	1855.576
CA202	4376084.174	758130.251	1532.787
CA203	4360275.550	464086.729	495.391
CA204	4359084.162	476515.688	702.557
CA205	4359324.600	491556.589	465.332
CA206	4357406.416	532579.941	452.913
CA207	4358589.122	539092.279	358.833
CA208	4351662.368	557032.801	88.941
CA209	4356602.906	576132.710	21.032
CA210	4357382.320	566376.915	31.009
CA211	4357350.128	590436.987	21.162
CA212	4357643.196	601258.349	22.009
CA213	4358220.248	613227.623	29.259
CA214	4358738.274	625796.882	34.071
CA215	4361118.064	637309.451	230.062
CA216	4359123.168	649594.018	492.401
CA217	4358761.748	661889.740	577.636
CA218	4358821.303	672771.419	872.076
CA219	4362371.840	694092.622	1485.124
CA220	4355212.442	703925.373	1536.955
CA221	4357790.045	715080.393	2174.090
CA222	4361728.176	736824.659	2069.426
CA223	4364642.998	756078.050	1627.386
CA224	4352863.391	540210.694	381.821
CA225	4344316.904	545792.062	402.884
CA226	4332105.016	559158.479	94.840
CA227	4343712.922	565044.177	36.949
CA228	4347755.897	578381.879	18.454
CA229	4342989.078	586643.348	22.924
CA230	4344867.131	595699.082	20.538
CA231	4341632.217	610657.465	20.232
CA232	4344633.358	617327.307	23.117
CA233	4345805.970	629730.357	33.075
CA234	4344746.553	640805.883	82.866
CA235	4344498.809	653848.986	370.440

CA236	4343204.356	666588.720	778.291
CA237	4346121.702	685608.389	1251.808
CA238	4340748.181	692453.378	1139.745
CA239	4339412.527	705634.261	1642.509
CA240	4338963.784	715293.207	1961.058
CA241	4341268.341	741976.450	1899.001
CA242	4334439.310	544956.936	664.050
CA243	4333586.876	555801.563	154.691
CA244	4332810.369	567641.487	37.044
CA245	4333271.657	579572.989	18.432
CA246	4332590.989	590935.546	15.815
CA247	4331751.693	604153.425	17.850
CA248	4331654.453	614782.331	15.792
CA249	4336020.882	624147.707	20.928
CA250	4336561.478	634445.608	33.609
CA251	4335956.649	654864.261	446.411
CA252	4331080.963	667389.990	672.327
CA253	4330055.401	679529.900	358.502
CA254	4333572.857	690979.779	1117.039
CA255	4334754.457	703209.533	1510.958
CA256	4334842.208	715075.256	1962.722
CA257	4333586.087	722546.400	1606.906
CA258	4336362.098	739511.611	2177.473
CA259	4316810.546	731604.786	1960.872
CA260	4308993.407	714022.721	1451.160
CA261	4309098.907	707928.030	1308.639
CA262	4312998.587	697428.693	1044.171
CA263	4309184.152	688106.922	829.692
CA264	4306579.570	673343.488	462.024
CA265	4285601.169	659344.757	107.041
CA266	4308787.921	662976.316	366.232
CA267	4310119.727	650209.988	67.675
CA268	4311410.977	637475.653	26.160
CA269	4312616.058	626115.370	12.875
CA270	4314368.844	615048.188	9.946
CA271	4315475.424	606786.428	9.368
CA272	4317719.447	586014.305	21.114
CA273	4319837.345	580921.972	39.447
CA274	4319799.015	574187.750	88.228
CA275	4316738.435	555933.149	324.458
CA276	4317926.421	550675.942	529.348

CA277	4303375.039	652972.485	160.426
CA278	4303668.622	640795.094	31.270
CA279	4303043.652	627889.793	11.907
CA280	4302736.190	612488.684	6.043
CA281	4302903.858	602983.307	9.265
CA282	4304098.717	589519.366	19.401
CA283	4301262.523	568228.246	121.456
CA284	4308439.081	558264.717	193.347
CA285	4290943.455	648804.412	49.896
CA286	4290444.893	638545.467	30.391
CA287	4290084.679	626424.059	6.229
CA288	4289691.666	613690.342	11.542
CA289	4290783.064	600735.319	19.305
CA290	4289694.716	590716.508	62.921
CA291	4289820.757	573604.530	91.680
CA292	4325126.993	556539.639	246.262
CA293	4286141.464	539780.720	334.257
CA294	4271523.712	652074.660	46.067
CA295	4265323.743	641219.455	14.526
CA296	4264448.851	630348.049	5.487
CA297	4279509.162	628193.991	7.183
CA298	4278457.512	616047.430	10.983
CA299	4280155.438	604301.670	23.439
CA300	4281531.793	589701.374	45.929
CA301	4280773.923	582525.590	81.974
CA302	4275387.242	561828.456	139.465
CA303	4277283.430	554193.178	185.858
CA304	4278561.368	546452.372	215.749
CA305	4273267.843	535024.632	158.411
CA306	4267371.718	533791.871	327.929
CA307	4267874.412	545993.697	310.799
CA308	4267600.379	555440.529	296.464
CA309	4265553.845	567507.460	175.683
CA310	4266182.721	586652.615	58.837
CA311	4267176.439	598371.142	29.153
CA312	4268515.696	616371.832	7.035
CA313	4256444.963	550257.576	53.801
CA314	4262526.025	563441.753	302.843
CA315	4255829.120	574001.110	189.854
CA316	4255688.635	586525.818	91.237
CA317	4256031.734	599571.519	23.056

CA318	4256789.643	613221.691	8.534
CA319	4242446.853	557879.526	36.897
CA320	4244769.113	563953.872	28.713
CA321	4244428.456	576263.266	96.688
CA322	4245431.709	589148.434	52.039
CA323	4246237.758	602414.546	12.170
CA324	4233901.114	556285.984	53.788
CA325	4233855.285	563977.401	13.834
CA326	4233252.872	576918.833	18.752
CA327	4233316.575	588202.957	5.258
CA328	4233322.065	604553.886	5.854
CA329	4240997.813	506807.780	6.666
CA330	4238913.382	511009.982	87.636
CA331	4225733.925	505002.127	182.733
CA332	4224316.590	516797.765	60.065
CA333	4226997.218	529555.105	40.184
CA334	4221036.466	557442.628	2.784
CA335	4222471.960	567005.382	35.261
CA336	4224407.622	576947.147	7.551
CA337	4225509.441	597285.890	13.46
CA338	4225427.342	615197.982	9.425
CA339	4215722.324	504416.145	34.201
CA340	4213434.026	516905.908	10.078
CA341	4211203.010	533121.469	200.052
CA342	4217615.794	542675.116	2.770
CA343	4208244.295	562541.543	8.236
CA344	4208780.085	575838.325	3.102
CA345	4208801.382	592852.901	30.373
CA346	4220737.499	608698.852	40.797
CA347	4205284.861	501762.625	42.539
CA348	4204842.236	521980.030	101.200
CA349	4206615.766	531946.819	125.344
CA350	4205493.275	546958.965	2.389
CA351	4196713.736	527020.160	4.084
CA352	4194893.862	541505.099	4.0100
CA353	4186646.728	541705.467	64.279
CA354	4192176.148	547547.596	2.097
CA355	4197678.236	554384.444	2.591
CA356	4195001.567	569416.507	131.477
CA357	4197669.749	581401.057	35.968
CA358	4198469.582	595052.615	190.698

CA359	4181602.909	543022.009	47.416
CA360	4183702.735	552980.447	3.230
CA361	4177513.531	547965.613	173.515
CA362	4184444.089	558738.468	4.175
CA363	4190579.366	573603.970	197.474
CA364	4188444.843	586415.869	94.846
CA365	4189954.188	594524.751	542.857
CA366	4180586.931	587489.876	220.407
CA367	4313816.460	659079.157	298.356
CA368	4406229.694	525407.544	1522.485
CA369	4389336.860	514851.830	1839.936
CA370	4432013.665	515301.776	2003.098
CA371	4433996.537	525028.867	1410.228
CA372	4198442.405	559531.424	22.173
CA701	4581159.807	593135.706	1391.436
CA702	4580982.999	601721.358	1394.902
CA703	4580963.145	610663.85	1346.355
CA704	4568211.092	597114.216	1212.908
CA705	4566458.871	600134.223	1217.728
CA706	4572096.782	608337.068	1410.908
CA707	4568791.022	624296.997	1140.531
CA708	4563854.034	635979.204	1095.308
CA709	4559164.212	625173.447	1066.623
CA710	4551068.317	633340.04	1008.822
CA711	4553291.004	641024.181	1100.092
CA711A	4561299.157	619916.005	1115.357
CA712	4553307.229	624048.604	1018.521
CA712A	4564579.909	625438.537	1120.739
CA713	4550254.52	624763.602	1009.891
CA801	4409810.239	629785.733	1118.052
CA803	4406193.351	632674.901	459.130
CA804	4411968.920	637376.044	450.896
CA805	4405466.496	615318.842	222.562
CA806	4399277.198	605870.913	102.999
CA807	4400497.894	616545.889	466.277
CA808	4402114.274	619458.010	560.880
CA809	4401767.636	630095.839	652.736
CA810	4391510.687	608198.597	61.557
CA811	4390760.705	614939.722	100.948
CA812	4389535.954	625475.424	404.931
CA813	4397365.973	626779.917	618.093

CA901	4239334.662	504206.366	16.653
CA902	4238554.742	509060.237	50.242
CA903	4225733.925	505002.127	182.733
CA904	4224316.590	516797.765	60.065
CA905	4226997.218	529555.105	40.184
CA906	4215722.324	504416.145	34.201
CA907	4213434.026	516905.908	10.078
CA908	4211203.010	533121.469	200.052
CA909	4217615.794	542675.116	2.770
CA910	4205284.861	501762.625	42.539
CA911	4204842.236	521980.030	101.200
CA912	4206615.766	531946.819	125.344
CA913	4205493.275	546958.965	2.389
CA914	4194893.862	541505.099	4.010
CA915	4196713.736	527020.160	4.084
CA916	4186646.728	541705.467	64.279
CA917	4192176.148	547547.596	2.097

Bare Earth Point Coordinates

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE001	4505322.762	392405.301	23.332
BE002	4508752.706	417887.289	814.973
BE003	4507196.480	422052.774	825.516
BE004	4499976.032	389765.507	3.614
BE005	4499781.553	398178.236	97.415
BE006	4499647.033	422168.460	759.951
BE007	4500121.668	426823.655	762.531
BE008	4490944.788	385422.934	101.403
BE009	4491384.946	397427.743	10.428
BE010	4487992.881	409841.642	38.573
BE011	4487526.132	422196.678	689.228
BE012	4490185.561	432089.794	994.634
BE013	4481646.120	437152.152	652.821
BE014	4481971.797	384526.351	280.225
BE015	4483597.369	393363.260	610.992
BE016	4478474.730	403213.309	594.462
BE017	4481021.591	419797.879	90.521
BE018	4480068.693	432045.461	208.714
BE019	4476855.790	442367.169	751.085
BE020	4469542.168	384371.178	9.937
BE021	4464865.410	389893.325	36.859
BE022	4432838.176	409356.937	195.145
BE023	4467758.927	421649.470	51.860
BE024	4464688.789	443037.747	362.269
BE025	4474585.242	435209.636	509.915
BE026	4468894.331	437970.954	359.808
BE027	4437960.743	431975.757	100.583
BE028	4482622.061	633166.766	2104.618
BE029	4477207.498	640018.253	1611.331
BE030	4473784.928	654560.236	1839.439
BE031	4479121.208	663795.289	1762.116

BE032	4460724.097	384747.580	5.356
BE033	4459103.100	394614.031	59.082
BE034	4458019.773	407582.363	714.879
BE035	4456238.366	435024.920	646.371
BE036	4451980.457	445687.475	109.915
BE037	4440228.387	423382.266	177.682
BE038	4459809.998	466467.173	1173.771
BE039	4469061.122	626503.810	1479.767
BE040	4466965.139	636909.369	1781.217
BE041	4464792.478	649258.446	1417.469
BE042	4463458.359	657625.911	1478.727
BE043	4470164.497	681928.693	1702.224
BE044	4440200.630	408320.371	760.602
BE045	4443602.849	415028.572	207.329
BE046	4442988.573	424278.868	407.902
BE047	4448052.016	433593.348	80.689
BE048	4442526.708	446283.692	576.815
BE049	4443767.027	458713.786	1011.092
BE050	4440780.535	469704.417	853.586
BE051	4440845.217	480116.871	1408.170
BE052	4443208.747	488754.809	1699.812
BE053	4446975.380	566206.996	80.961
BE054	4451088.167	574555.485	243.547
BE055	4452598.056	582567.053	333.921
BE056	4449500.736	615110.436	1263.709
BE057	4451672.307	619794.898	1663.314
BE058	4455609.366	627303.112	1478.55
BE059	4451439.762	646770.975	1420.355
BE060	4448625.730	664149.977	1401.736
BE061	4421845.04	417572.102	60.430
BE062	4424333.136	432145.838	240.438
BE063	4422785.553	440489.276	764.532
BE064	4421962.068	450312.787	1114.390
BE065	4422948.627	469511.365	582.778
BE066	4422038.412	496396.866	1224.406
BE067	4416630.124	504460.582	1898.857
BE068	4422031.338	526649.751	1044.025
BE069	4424864.358	538514.396	294.311
BE070	4429658.228	551310.266	166.128
BE071	4428077.204	559839.451	117.962
BE072	4429660.137	572896.587	74.209

BE073	4429788.642	577087.302	65.369
BE074	4432423.250	609308.294	1224.711
BE075	4431122.390	625140.302	1587.440
BE076	4429669.201	648470.391	678.376
BE077	4409457.249	427306.540	4.712
BE078	4413391.601	438928.741	287.443
BE078A	4408780.210	443036.923	432.739
BE079	4413307.755	450673.246	928.922
BE080	4436326.675	466601.480	1013.545
BE081	4407295.44	500562.332	1059.335
BE082	4409249.808	516150.040	1642.696
BE083	4407249.848	536846.415	221.723
BE084	4406672.083	549400.448	163.724
BE085	4405639.419	563256.771	98.766
BE086	4406956.374	587373.129	47.786
BE087	4407965.459	629690.931	1005.033
BE088	4410706.845	644817.591	1642.069
BE089	4414583.214	654802.283	1578.324
BE090	4411933.977	661062.148	1787.797
BE091	4413015.042	698607.138	1354.901
BE092	4412585.512	689983.907	1671.749
BE093	4422724.295	706949.737	1770.906
BE094	4416859.017	710921.380	2091.192
BE095	4420457.909	731486.362	1813.470
BE096	4433377.557	736407.744	1830.633
BE097	4418278.904	743312.329	1784.176
BE098	4412559.310	435836.035	570.019
BE099	4400010.178	454510.289	455.581
BE100	4401500.458	465120.809	581.855
BE101	4382051.718	466972.671	342.757
BE102	4399921.148	492872.155	1166.787
BE103	4396349.758	499599.221	1615.198
BE104	4396434.723	511274.633	1970.030
BE105	4399963.775	529046.658	1290.654
BE106	4397578.353	538609.396	285.394
BE107	4398192.753	550109.894	156.430
BE108	4398808.828	564417.376	85.832
BE109	4399450.756	602806.354	73.434
BE110	4400512.032	618854.283	501.515
BE111	4397377.307	626787.467	618.515
BE112	4387139.277	651619.807	1195.131

BE113	4398885.417	669624.209	1529.015
BE114	4404642.212	697824.583	1598.041
BE115	4404708.364	676414.599	1726.174
BE116	4406312.638	723542.430	1515.101
BE117	4404963.143	734009.636	1491.097
BE118	4408603.943	747365.230	1588.995
BE119	4375505.211	457801.960	692.680
BE120	4375781.009	467053.443	734.112
BE121	4371592.291	482214.221	410.137
BE122	4379080.441	504047.380	1718.688
BE123	4355755.905	565636.158	33.775
BE124	4377646.510	539576.337	287.502
BE125	4375895.454	580277.635	30.385
BE126	4375316.601	591986.157	30.506
BE127	4375408.991	602095.942	31.346
BE128	4375664.004	612769.277	38.018
BE129	4380584.600	634570.756	304.900
BE130	4375445.113	655261.940	956.527
BE131	4378570.375	660842.145	1136.711
BE132	4374222.777	686794.586	1676.948
BE133	4382403.385	702027.569	1455.792
BE134	4385101.900	709793.075	2233.514
BE135	4376259.663	735499.177	1905.933
BE136	4377586.614	745591.026	1855.687
BE137	4360288.226	464106.209	494.542
BE138	4359098.192	476518.087	703.175
BE139	4359283.069	491558.323	463.503
BE140	4357422.554	532595.749	452.545
BE141	4351656.548	557052.243	88.432
BE142	4375553.824	567535.697	43.158
BE143	4357395.064	566362.880	30.952
BE144	4357367.588	590432.548	20.891
BE145	4357628.917	601279.436	21.957
BE146	4358741.365	625828.703	33.777
BE147	4361114.063	637369.264	231.941
BE148	4358756.902	661859.750	577.432
BE149	4358849.130	672776.553	873.009
BE150	4362378.735	694094.371	1485.200
BE151	4353339.040	700154.386	1388.043
BE152	4357773.508	715102.867	2172.694
BE153	4361709.712	736818.893	2069.083

BE154	4364661.778	756081.475	1626.430
BE155	4353005.120	540199.781	384.595
BE156	4344318.660	545762.170	402.845
BE157	4331387.287	559633.432	81.114
BE158	4343707.923	565034.912	37.493
BE159	4347769.364	578384.398	18.059
BE160	4342943.928	586616.205	22.454
BE161	4344908.335	595712.203	19.643
BE162	4341688.570	610639.174	20.338
BE163	4344637.963	617358.077	23.174
BE164	4346124.629	685610.428	1251.703
BE165	4340789.352	692454.538	1137.179
BE166	4339407.345	705637.867	1642.178
BE167	4338930.049	715302.518	1959.105
BE168	4334424.896	544960.034	664.277
BE169	4333583.275	555799.952	154.393
BE170	4332907.128	567646.571	37.106
BE171	4334819.060	572986.348	24.481
BE172	4331774.091	604144.516	18.350
BE173	4335950.998	654853.206	446.681
BE174	4330046.333	679523.070	357.598
BE175	4331755.888	686003.116	907.054
BE176	4334763.550	703207.741	1511.412
BE177	4334791.263	715043.882	1958.200
BE178	4317915.900	550608.065	527.660
BE179	4319805.280	574195.920	87.903
BE180	4319791.727	580985.598	39.594
BE181	4317716.536	586002.736	21.028
BE182	4315476.895	606791.211	9.126
BE183	4314344.731	615053.498	9.698
BE184	4312987.752	697400.089	1042.265
BE185	4308994.453	714027.864	1451.245
BE186	4316775.742	555935.112	325.137
BE187	4301261.524	568256.957	121.275
BE188	4304119.313	589534.985	19.307
BE189	4302887.165	602988.453	8.823
BE190	4303041.437	627905.491	11.952
BE191	4303406.493	653015.064	162.219
BE192	4318335.165	555293.841	325.598
BE193	4289819.899	573585.526	91.630
BE194	4289684.912	590695.099	62.405

BE195	4290814.340	600756.755	18.996
BE196	4289682.323	613689.621	11.477
BE197	4290095.472	626408.730	6.372
BE198	4290476.735	638550.442	30.428
BE199	4273249.806	535006.956	158.276
BE200	4286147.745	539789.725	333.220
BE201	4277298.823	554178.334	186.149
BE202	4275329.680	561802.068	141.951
BE203	4280778.420	582539.622	81.703
BE204	4281514.485	589703.593	45.840
BE205	4278456.955	616056.616	11.094
BE206	4267375.219	533815.089	329.172
BE207	4267613.938	555422.033	296.977
BE208	4265568.566	567576.866	183.333
BE209	4266202.497	587267.711	58.261
BE210	4267160.466	598366.910	29.298
BE211	4268514.209	616376.365	7.019
BE212	4256481.036	550228.425	53.965
BE213	4262515.290	563421.329	303.162
BE214	4255859.425	574000.863	189.454
BE215	4255685.422	586534.941	90.986
BE216	4256041.951	599585.167	22.984
BE217	4256781.280	612316.388	9.316
BE218	4250043.532	555913.559	28.839
BE218A	4242425.560	557871.949	38.662
BE219	4243934.518	576572.496	85.901
BE220	4246231.498	602414.414	12.130
BE221	4240953.162	506763.890	7.732
BE222	4238728.649	510550.302	47.743
BE223	4233935.461	556292.422	55.512
BE224	4233850.567	563982.959	13.976
BE225	4233323.684	604545.730	5.871
BE226	4226808.557	504025.555	92.786
BE227	4223388.653	516293.783	71.647
BE228	4225320.319	528828.621	58.284
BE229	4226186.028	575223.588	20.161
BE230	4225510.036	597279.372	13.341
BE231	4216078.231	504921.611	32.754
BE232	4214983.533	516681.984	30.978
BE233	4211187.304	533124.175	201.498
BE234	4205388.711	500860.592	102.910

BE235	4205396.286	521555.140	63.031
BE236	4206583.017	531975.195	125.928
BE237	4196779.118	524586.821	74.637
BE238	4186638.384	541726.956	64.806
BE239	4192452.024	547618.881	4.012
BE240	4195019.762	569426.653	130.552
BE241	4198477.482	595011.618	190.029
BE242	4191215.520	572371.724	187.167
BE243	4189943.446	594566.665	540.941
BE244	4180589.713	587501.968	220.570
BE245	4392426.359	443583.257	455.123
BE246	4389324.052	459116.368	513.120
BE247	4391177.488	470472.916	316.549
BE248	4395785.481	476617.971	604.482
BE249	4366553.923	473142.256	622.242
BE250	4389364.733	514837.003	1839.919
BE251	4454074.982	653057.467	1390.133
BE252	4437224.159	622165.978	1329.031
BE253	4406761.195	644757.209	1556.959
BE254	4403521.665	708378.902	1404.743
BE255	4313774.463	659062.390	300.118
BE256	4434009.932	525161.845	1400.863
BE257	4443363.634	488764.904	1692.248
BE701	4581181.838	593145.96	1391.845
BE702	4580948.015	602709.613	1394.219
BE703	4577657.304	609036.889	1338.448
BE704	4576043.646	603740.528	1392.458
BE705	4576618.636	610018.785	1321.220
BE706	4576658.709	617863.743	1186.182
BE707	4577801.615	594067.537	1693.662
BE708	4570755.57	599523.589	1230.430
BE709	4568190.5	597103.79	1212.583
BE710	4567991.449	598747.235	1211.037
BE711	4566413.211	600163.665	1218.358
BE712	4572115.6	608353.472	1410.973
BE713	4572248.259	604268.624	1412.189
BE714	4566122.641	602403.851	1374.942
BE715	4565642.032	609608.643	1281.434
BE716	4568799.93	624287.838	1140.674
BE717	4559069.378	625108.081	1059.956
BE718	4551069.831	633358.959	1008.97

BE719	4550204.865	624765.165	1012.519
BE720	4564584.519	625464.041	1116.941
BE721	4567291.427	633134.336	1181.844
BE722	4579641.437	601606.439	1411.117
BE723	4573818.85	610262.036	1299.669
BE724	4561197.085	619765.257	1116.498
BE725	4563851.523	635982.311	1095.320
BE726	4571286.398	622545.456	1163.904
BE727	4569356.094	616824.93	1163.612
BE728	4553285.831	641037.662	1099.735
BE729	4551115.971	624653.83	1010.832
BE730	4562984.108	609065.665	1279.985
BE731	4576598.953	598178.749	1487.872
BE732	4550736.291	628258.58	1009.749
BE733	4562950.255	621005.155	1117.726
BE734	4553679.438	623736.981	1019.985
BE801	4409818.667	629787.688	1118.178
BE802	4411969.376	637370.954	450.538
BE803	4408107.890	621569.125	693.923
BE805	4406188.357	632669.692	459.204
BE806	4405453.778	615313.082	221.300
BE807	4399282.674	605869.606	102.961
BE808	4401773.214	630097.806	652.597
BE809	4405771.989	628590.076	693.819
BE810	4391597.826	608811.442	84.374
BE811	4390498.183	614943.407	96.037
BE813	4396938.535	630133.450	666.957
BE814	4396373.487	613775.572	297.121
BE815	4389536.767	625450.703	404.385
BE816	4395153.895	626469.820	505.674
BE817	4397009.000	619050.509	391.541
BE818	4403272.700	613679.160	180.566
BE819	4394326.218	622369.438	379.979
BE820	4412930.341	623068.729	824.364
BE821	4397611.678	611634.587	292.218
BE901	4239413.935	503986.816	23.919
BE902	4239196.400	511106.206	61.562
BE903	4226808.557	504025.555	92.786
BE904	4223388.653	516293.783	71.647
BE905	4225320.319	528828.621	58.284
BE906	4192452.024	547618.881	4.012

BE907	4216078.231	504921.611	32.754
BE908	4214983.533	516681.984	30.978
BE909	4211187.304	533124.175	201.498
BE910	4205388.711	500860.592	102.910
BE911	4205396.286	521555.140	63.031
BE912	4206583.017	531975.195	125.928
BE913	4196779.118	524586.821	74.637
BE914	4186638.384	541726.956	64.806
BE915	4235056.521	506349.522	5.755
BE916	4233163.947	502947.138	11.157
BE917	4233486.405	504897.964	143.47
BE918	4231925.242	502680.151	2.600
BE919	4236336.745	511102.914	18.292
BE920	4238536.247	504521.226	91.976
BE921	4229499.115	516310.731	50.227
BE922	4233079.193	508128.297	38.025
BE924	4222410.257	526013.854	126.971
BE925	4218721.407	512843.043	4.613
BE926	4210715.705	518477.665	14.306

Urban Area Point Coordinates

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA001	4457660.942	425980.236	62.966
UA002	4439349.620	432431.701	164.851
UA003	4450392.965	567222.862	85.999
UA004	4447075.463	566149.380	81.264
UA005	4461489.611	649600.133	1380.046
UA006	4418956.953	548139.499	175.398
UA007	4417464.556	568451.644	83.990
UA008	4415975.295	586739.601	63.837
UA009	4408520.199	610308.425	517.314
UA010	4401278.911	567143.530	83.273
UA011	4399841.439	570897.471	74.065
UA012	4398829.912	569832.929	74.324
UA013	4398805.299	595906.619	50.475
UA014	4399894.976	602142.813	71.833
UA015	4392380.358	458614.729	496.991
UA016	4393333.171	458588.979	504.407
UA017	4389780.544	602098.730	48.395
UA018	4392297.992	637972.559	780.220
UA019	4375554.951	567552.458	42.883
UA020	4373967.591	568923.974	39.154
UA021	4375406.175	626034.425	101.929
UA022	4372827.586	627191.306	109.576
UA023	4359820.972	736260.695	2050.180
UA024	4355468.715	743312.587	1841.320
UA025	4358537.019	539208.400	358.830
UA026	4358219.341	613260.366	29.182
UA027	4357625.465	611000.078	27.230
UA028	4359109.169	649593.650	492.119
UA029	4340287.497	585564.418	16.973
UA030	4331664.708	614766.379	15.844
UA031	4336026.959	624117.893	20.830

UA032	4336567.325	634461.426	33.897
UA033	4331080.589	667375.646	671.187
UA034	4312602.147	626122.198	12.910
UA035	4310093.731	650206.546	67.104
UA036	4306078.010	672151.457	464.680
UA037	4308489.946	687198.238	803.295
UA038	4298281.806	631630.852	15.211
UA039	4316806.334	731597.790	1960.108
UA040	4302750.255	612482.355	6.033
UA041	4279488.486	628194.564	7.070
UA042	4290913.639	648549.208	52.717
UA043	4285609.757	659323.211	106.969
UA044	4271502.580	651954.026	44.943
UA045	4265317.689	641479.635	15.070
UA046	4264442.584	630367.759	5.318
UA047	4280184.596	604256.256	23.340
UA048	4386321.314	569055.854	51.342
UA049	4413377.405	438930.865	288.057
UA050	4267910.944	545974.763	309.890
UA051	4266520.669	606926.085	16.943
UA052	4269210.454	613214.057	10.119
UA053	4260009.233	551921.875	56.217
UA054	4250054.543	555924.947	28.966
UA055	4258662.960	602791.634	20.180
UA056	4254312.755	602697.877	16.944
UA057	4244767.536	563993.245	28.813
UA058	4245429.305	589130.507	51.964
UA059	4245814.068	588891.515	53.467
UA060	4239892.487	558774.480	36.776
UA061	4239663.677	563122.405	5.888
UA062	4233257.970	576928.763	18.693
UA063	4233316.475	588194.432	5.233
UA064	4229077.409	598605.713	29.553
UA065	4225433.479	615205.177	9.505
UA066	4217587.947	542674.216	2.610
UA067	4208764.437	539350.224	52.777
UA068	4205472.510	546969.155	2.527
UA069	4201539.921	543640.388	1.035
UA070	4222476.935	567005.867	35.167
UA071	4208255.865	562598.564	7.637
UA072	4208779.971	575833.486	3.122

UA073	4208800.970	592846.956	30.384
UA074	4195964.758	526630.397	58.570
UA075	4194892.233	541488.212	4.088
UA076	4190579.404	544941.177	3.040
UA077	4197678.002	554415.061	2.615
UA078	4198482.357	559510.832	21.263
UA079	4197695.193	581404.651	34.994
UA080	4199833.493	593696.136	121.638
UA081	4192239.382	562714.182	25.493
UA082	4184453.318	558743.415	4.197
UA083	4188444.172	586447.302	95.563
UA084	4181596.102	542993.831	46.764
UA085	4183747.559	552944.917	3.078
UA086	4177493.382	547963.629	172.397
UA087	4490003.936	404264.547	105.741
UA088	4463389.183	669232.418	1553.21
UA089	4403434.216	478636.063	423.269
UA090	4381185.301	686436.277	883.531
UA091	4387662.639	705895.221	1687.215
UA092	4334833.071	572997.545	24.499
UA093	4343225.448	666588.640	778.685
UA094	4348022.355	670980.419	781.812
UA095	4319848.762	580968.100	38.990
UA096	4315841.723	640631.716	34.518
UA097	4319470.425	635767.393	23.304
UA098	4305489.941	648539.188	48.546
UA099	4332407.732	591262.071	16.969
UA100	4333118.114	594186.094	13.425
UA101	4335078.586	607279.228	21.781
UA102	4341280.176	741997.057	1898.038
UA103	4342607.935	739359.489	1894.196
UA104	4454158.704	429884.683	103.351
UA105	4483046.869	406696.093	41.508
UA106	4482495.645	449613.740	729.059
UA107	4464543.828	390652.256	29.532
UA108	4435212.103	417784.971	296.153
UA109	4363278.627	469473.977	415.981
UA110	4359530.453	470462.034	442.502
UA111	4348045.705	569652.701	27.845
UA112	4389794.159	597063.584	43.785
UA113	4478988.403	663634.830	1768.650

UA701	4550209.592	624755.524	1012.364
UA801	4402112.133	619466.087	560.687
UA802	4400496.447	616540.948	466.196
UA803	4395732.830	607753.316	145.191
UA804	4403916.225	620706.014	636.800
UA805	4392912.612	622887.213	288.544
UA806	4399452.944	618908.094	446.457
UA807	4397701.409	621830.908	471.810
UA808	4388514.177	610964.050	59.426
UA901	4217587.947	542674.216	2.610
UA902	4208764.437	539350.224	52.777
UA903	4205472.510	546969.155	2.527
UA904	4201539.921	543640.388	1.035
UA905	4195964.758	526630.397	58.570
UA906	4194892.233	541488.212	4.088
UA907	4190579.404	544941.177	3.040
UA908	4236507.649	508743.611	9.318
UA909	4233193.139	502953.344	11.640
UA910	4234806.792	502765.825	110.956
UA914	4233062.558	508121.416	38.864

Shrub Point Coordinates

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SH001	4487986.234	409796.341	38.514
SH002	4464878.501	389885.586	37.688
SH003	4464723.765	443039.312	362.472
SH004	4449763.139	449590.980	193.613
SH005	4435280.004	444592.847	679.182
SH006	4359325.842	491542.601	465.314
SH007	4432458.411	609302.710	1224.122
SH008	4366542.272	473132.105	621.339
SH009	4407973.509	629695.033	1004.665
SH010	4410723.446	644824.089	1642.533
SH011	4414621.573	654788.612	1575.389
SH012	4411902.244	661070.879	1789.322
SH013	4420416.374	731537.368	1811.562
SH014	4425002.610	738028.633	1715.063
SH015	4400407.994	587060.592	42.957
SH016	4403505.489	708368.126	1403.722
SH017	4408622.066	747374.611	1589.221
SH018	4395449.253	676940.167	1393.361
SH019	4388825.433	683333.969	1823.404
SH020	4390183.218	740827.905	1660.427
SH021	4399988.609	491081.706	1090.081
SH022	4380588.813	634595.930	304.243
SH023	4378225.558	663644.383	1018.795
SH024	4359187.661	672719.193	876.173
SH025	4377437.689	745589.016	1858.055
SH026	4359070.401	476507.725	701.843
SH027	4357792.439	535079.095	395.415

SH028	4357814.911	715054.448	2176.878
SH029	4364687.701	756097.072	1624.202
SH030	4350966.557	558563.490	75.568
SH031	4339403.775	705631.543	1642.474
SH032	4338949.602	715289.709	1960.739
SH033	4318426.260	553420.229	379.180
SH034	4290063.831	627227.951	5.950
SH035	4242446.539	557844.558	40.022
SH036	4245437.664	602856.387	11.354
SH037	4233869.619	563967.796	13.368
SH038	4226811.191	504054.213	91.531
SH039	4223416.967	516287.751	71.725
SH040	4217726.289	524024.916	85.927
SH041	4224375.031	576968.441	8.588
SH042	4196699.144	524580.506	70.920
SH043	4186617.521	541758.416	64.754
SH044	4376340.001	457999.676	692.103
SH045	4444909.833	414906.545	180.645
SH046	4470156.142	681988.840	1701.326
SH047	4379096.188	504055.550	1718.206
SH048	4309140.262	688215.336	828.324
SH049	4355519.667	766672.225	2662.929
SH050	4327319.917	556686.873	201.924
SH051	4415779.172	531501.156	729.886
SH052	4386890.031	525183.947	1306.517
SH701	4567346.100	633122.057	1182.574
SH702	4579862.506	603638.119	1394.568
SH703	4553700.218	623738.649	1020.272
SH802	4395174.333	626464.853	507.282
SH803	4407952.923	629675.287	1003.515
SH901	4226811.191	504054.213	91.531
SH902	4223416.967	516287.751	71.725
SH903	4217726.289	524024.916	85.927
SH904	4196699.144	524580.506	70.920
SH905	4186617.521	541758.416	64.754
SH906	4234815.888	502784.348	112.721

Tall Weed Point Coordinates

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TW001	4505766.076	392348.970	48.233
TW002	4507179.392	422058.850	825.954
TW003	4500131.114	426824.103	762.619
TW004	4491374.720	397422.849	9.864
TW005	4483585.056	393374.638	610.433
TW005B	4458026.060	407586.867	715.431
TW006	4476870.062	442373.812	750.483
TW007	4359334.681	491555.313	465.688
TW008	4478479.145	403217.323	593.588
TW009	4460713.563	384702.704	5.322
TW010	4459110.621	394628.610	58.861
TW011	4429650.616	572941.742	71.102
TW012	4429799.121	577053.697	65.768
TW013	4432459.209	609320.865	1225.170
TW014	4440460.477	438269.545	754.257
TW015	4409131.386	573521.736	65.821
TW016	4408136.762	621161.901	685.309
TW017	4413420.571	699992.254	1647.198
TW018	4399832.439	570896.028	74.432
TW019	4397633.235	573529.151	64.647
TW020	4398178.227	591372.259	41.235
TW021	4398713.193	603273.005	76.668
TW022	4404645.977	709290.887	1476.276
TW023	4404954.875	734000.142	1491.228
TW024	4442859.215	456728.754	955.633
TW025	4389298.914	459116.443	513.244
TW026	4407943.690	536499.886	215.916
TW027	4386291.364	569045.031	51.199
TW028	4386693.559	580225.528	41.576

TW029	4387289.413	590462.435	35.577
TW030	4387339.836	603546.136	44.757
TW031	4384980.056	614118.791	58.514
TW032	4385910.819	626511.127	426.576
TW033	4414618.750	654801.895	1575.418
TW034	4383205.839	661669.475	1081.244
TW035	4391979.646	725606.703	1530.351
TW036	4390124.294	740808.366	1656.836
TW037	4375483.267	457809.939	692.252
TW038	4399928.378	492863.521	1166.177
TW039	4281509.236	589721.471	46.116
TW040	4376375.330	580344.337	29.490
TW041	4375205.568	591969.577	31.001
TW042	4375402.117	601983.702	30.815
TW043	4375682.497	612753.930	38.642
TW044	4375439.273	655272.632	956.316
TW045	4388256.252	715456.491	2044.985
TW046	4376294.059	733618.191	1956.060
TW047	4377443.836	745573.215	1857.884
TW048	4376080.036	758081.653	1534.231
TW049	4361839.331	468539.052	432.718
TW050	4358440.237	539155.263	359.447
TW051	4375601.221	567535.552	43.517
TW052	4357409.502	566381.329	31.446
TW053	4357461.853	590422.114	20.352
TW054	4357624.028	601269.356	21.739
TW055	4357408.481	613184.050	28.599
TW056	4357476.012	625738.232	32.144
TW057	4355752.017	566426.911	32.523
TW058	4343615.891	565034.184	36.051
TW059	4347781.060	578399.421	17.701
TW060	4344521.144	613293.221	21.044
TW061	4345674.345	595694.412	19.041
TW062	4342383.621	643810.984	80.635
TW063	4338916.203	715298.126	1958.760
TW064	4342442.360	739259.265	1889.379
TW065	4333589.487	555815.169	154.915
TW066	4334016.437	567943.638	34.545
TW067	4335166.853	572491.742	24.666
TW068	4333263.013	579603.078	17.910
TW069	4333956.909	589576.650	14.080

TW070	4333243.354	595259.662	12.343
TW071	4331895.609	607619.355	13.125
TW072	4331650.025	614783.039	15.833
TW073	4336528.161	634407.314	32.742
TW074	4332744.917	657219.632	490.947
TW075	4300899.442	568594.318	119.223
TW076	4304159.164	589506.266	19.261
TW077	4290450.666	640284.889	30.087
TW078	4307027.173	640713.826	31.308
TW079	4307018.930	673964.349	476.938
TW080	4308983.534	713973.567	1450.951
TW081	4292031.697	572060.718	94.209
TW082	4289703.654	590718.693	62.486
TW083	4290100.468	626468.363	5.405
TW084	4256469.924	550251.564	53.512
TW085	4255666.951	586527.251	90.252
TW086	4254304.398	602678.387	17.293
TW087	4256787.572	612314.984	9.162
TW088	4238703.431	510556.446	47.062
TW089	4214989.517	516668.544	30.740
TW090	4222944.015	607987.697	45.650
TW091	4454136.694	653003.455	1390.472
TW092	4378762.401	757730.163	1508.367
TW701	4551818.479	640532.050	1088.894
TW702	4564982.263	633677.045	1079.840
TW703	4551032.465	633345.426	1008.897
TW704	4550212.498	624729.185	1012.104
TW802	4390319.270	614945.525	93.592
TW803	4399281.801	605859.299	102.651
TW804	4388521.539	610959.388	59.605
TW901	4239208.232	511112.508	61.143
TW902	4214989.517	516668.544	30.740
TW903	4236265.630	506544.362	5.476
TW904	4233158.658	502924.505	11.013
TW904A	4232099.282	502728.775	2.610
TW905	4234646.348	502903.761	116.968
TW906	4236344.232	511095.997	18.369
TW907	4233074.898	508316.547	23.840
TW908	4229506.601	516359.853	48.804
TW910	4232609.928	516552.326	52.304
TW912	4221681.593	525778.258	116.925

TW913	4218733.149	512951.400	15.308
TW914	4226822.594	504035.070	91.843

Forest Point Coordinates

Horizontal Datum - NAD83(2011)
UTM ZONE 14
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FO001	4457324.256	406662.858	633.863
FO002	4505809.736	392378.532	47.245
FO003	4488699.506	408582.300	86.929
FO004	4491967.545	393752.403	27.691
FO005	4479135.475	403526.151	493.934
FO006	4487994.493	409930.665	38.437
FO007	4481447.068	422600.199	122.725
FO008	4478579.691	410116.495	36.478
FO009	4495039.117	401080.228	17.439
FO010	4482624.334	633188.656	2104.285
FO011	4477157.402	640003.848	1610.611
FO012	4473812.220	654541.972	1843.486
FO013	4479005.186	663654.905	1767.380
FO014	4463326.791	390878.301	27.737
FO015	4440256.485	423392.390	176.431
FO016	4467783.945	421675.963	51.495
FO017	4460817.646	385432.555	28.288
FO018	4457242.680	398399.921	83.028
FO019	4454092.478	405197.680	107.531
FO020	4441899.260	445657.975	567.145
FO021	4464666.080	443081.546	362.848
FO022	4437984.226	432031.775	99.5110
FO023	4468279.954	625929.987	1461.302
FO024	4466950.778	636887.283	1783.348
FO025	4464784.292	649231.719	1419.393
FO026	4456957.113	405052.220	478.716
FO027	4444935.718	414889.354	180.941
FO028	4442915.361	456787.783	955.580
FO029	4431938.843	515396.695	2007.124
FO030	4449527.360	615116.162	1267.513
FO031	4451643.701	619779.675	1663.822
FO032	4455591.365	627281.667	1478.541

FO033	4451519.482	646683.744	1424.726
FO034	4454015.988	653034.697	1390.287
FO035	4432815.046	409371.087	196.368
FO036	4435263.681	417832.483	297.309
FO037	4436280.438	466641.870	1015.401
FO038	4425055.232	431819.606	213.365
FO039	4433937.467	432439.756	149.884
FO040	4422819.806	469533.78	584.958
FO041	4416563.026	504444.211	1891.187
FO042	4432370.753	609296.489	1224.444
FO043	4437284.895	622213.637	1330.009
FO044	4431086.531	625092.504	1589.040
FO045	4413243.974	438868.369	289.951
FO046	4407674.095	456435.444	1040.690
FO047	4407437.538	488745.180	437.590
FO048	4407236.813	500582.769	1057.868
FO049	4409192.011	516141.459	1643.033
FO050	4406233.277	525394.183	1522.233
FO051	4408156.446	621160.512	685.824
FO052	4423498.468	615325.775	1019.628
FO053	4410675.195	644864.477	1643.728
FO054	4414552.502	654824.719	1578.934
FO055	4411971.235	661023.242	1789.931
FO056	4412534.244	688119.251	1771.433
FO057	4412924.401	698905.947	1424.183
FO058	4417875.011	712871.781	1786.161
FO059	4418222.117	742995.361	1807.590
FO060	4396411.677	499532.243	1611.967
FO061	4412545.926	435818.394	569.714
FO062	4375470.120	457806.867	692.485
FO063	4396367.065	511165.477	1970.606
FO064	4399975.422	529044.151	1292.776
FO065	4397447.036	626824.895	620.640
FO066	4406665.361	644848.904	1557.823
FO067	4398867.575	669759.315	1542.523
FO068	4404696.963	676403.460	1726.442
FO069	4404255.935	697204.076	1667.111
FO070	4443453.170	488781.432	1688.745
FO071	4434000.183	525176.539	1399.374
FO072	4389390.994	514836.492	1839.205
FO073	4386899.003	525193.999	1306.715

FO074	4380516.354	634577.946	308.363
FO075	4387163.453	651657.927	1195.370
FO076	4383216.166	661652.058	1081.833
FO077	4388912.440	683360.530	1826.133
FO078	4385085.266	709824.279	2234.373
FO079	4388189.973	715489.690	2042.651
FO080	4359262.796	491545.261	462.163
FO081	4357435.279	532619.570	451.037
FO082	4358752.480	661838.956	577.270
FO083	4359405.864	690292.509	840.522
FO084	4353341.720	700181.863	1388.298
FO085	4352824.492	540301.696	379.499
FO086	4346139.650	685586.919	1251.451
FO087	4334772.743	703184.555	1512.713
FO088	4313842.924	659085.952	297.990
FO089	4312999.492	697459.826	1049.187
FO090	4309122.488	707926.385	1310.400
FO091	4309219.196	688077.793	832.157
FO092	4286111.549	539769.769	334.310
FO093	4267381.306	533848.109	333.161
FO094	4265513.439	567554.738	174.757
FO095	4244645.390	565034.335	40.174
FO096	4255549.255	574031.264	193.735
FO097	4235050.764	508671.524	47.292
FO098	4224612.918	517880.297	69.167
FO099	4226209.451	529068.274	41.757
FO100	4233192.444	576849.686	18.451
FO101	4210238.336	534770.263	74.394
FO102	4205633.634	521476.281	59.843
FO103	4207412.943	529307.770	94.228
FO104	4206538.466	545675.697	5.948
FO105	4195780.956	526349.348	58.738
FO106	4195006.823	569410.451	132.770
FO107	4197671.392	581341.323	34.784
FO108	4198456.119	595106.335	190.423
FO109	4181625.423	543023.531	49.812
FO110	4191227.560	572365.277	186.869
FO111	4188426.239	586377.136	94.281
FO112	4189965.751	594513.349	542.699

FR701	4581181.454	593160.371	1392.589
FR702	4580929.365	602701.079	1394.363
FR703	4576586.342	598190.815	1487.464
FR704	4579645.258	601569.474	1412.434
FR705	4570806.705	599488.042	1230.025
FR706	4568176.581	597112.42	1212.718
FR707	4566382.251	600147.159	1218.125
FR708	4572167.016	604252.967	1411.436
FR709	4572083.079	608332.100	1409.771
FR710	4571266.792	622552.091	1164.115
FR711	4568797.428	624264.459	1141.156
FR712	4561182.844	619763.771	1116.638
FR713	4559059.287	625083.483	1060.098
FR714	4564578.074	625488.742	1115.786
FR715	4562968.324	609063.481	1279.215
FR716	4569404.021	616789.827	1164.971
FR717	4576575.092	610030.574	1321.262
FR718	4577805.343	594056.158	1694.462
FR719	4550192.973	624763.32	1012.277
FR720	4567331.293	633152.580	1183.731
FR721	4562963.786	621000.417	1117.667
FR803	4411350.764	622369.434	820.674
FR804	4389517.993	625431.069	403.283
FR805	4398883.030	626245.033	538.881
FR806	4402628.916	626758.837	617.186
FR807	4397970.062	622334.611	465.428
FR808	4405477.857	615347.136	227.817
FR809	4401835.894	622281.878	584.340
FR810	4402569.101	618409.967	564.591
FR901	4235050.764	508671.524	47.292
FR902	4224612.918	517880.297	69.167
FR903	4226209.451	529068.274	41.757
FR904	4210238.336	534770.263	74.394
FR905	4205633.634	521476.281	59.843
FR906	4207412.943	529307.770	94.228
FR907	4206538.466	545675.697	5.948
FR908	4195780.956	526349.348	58.738
FR909	4233683.262	502853.056	6.642
FR910	4239981.934	506916.204	6.184
FR911	4232551.691	516583.397	54.691

Point Data and Accuracy Log Sheets

Calibration Point Log Sheets

Point ID	CA001
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Cannibal Island

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4505324.601	392402.786	23.313

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:









Point ID	CA002
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4508746.238	417888.83	814.997

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	CA003
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4507199.002	422055.933	825.438

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.022
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	CA004
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Cannibal Island

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4499975.157	389788.947	3.048

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.023
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA005
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fields Landing

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

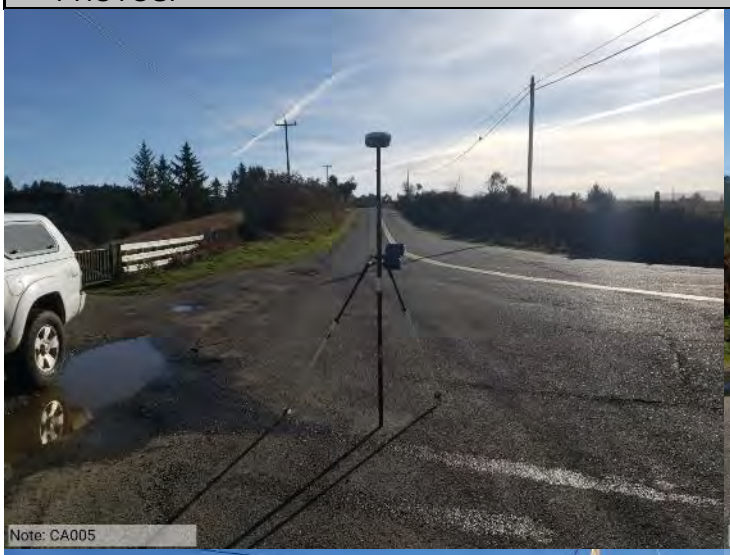
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4499787.192	398173.063	97.580

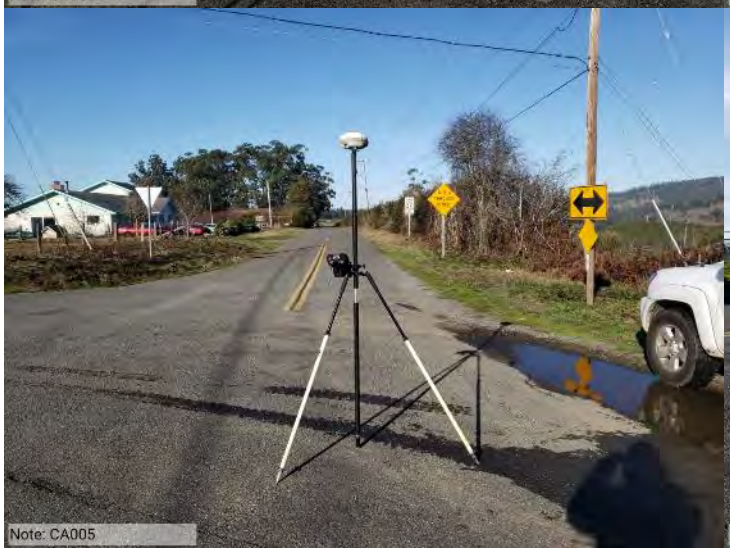
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.009
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	CA006
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4499642.460	422176.213	760.234

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	CA007
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4500121.765	426816.775	762.697

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	CA008
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ferndale

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4490949.636	385419.266	101.423

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	CA009
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fortuna

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4491399.314	397428.597	10.928

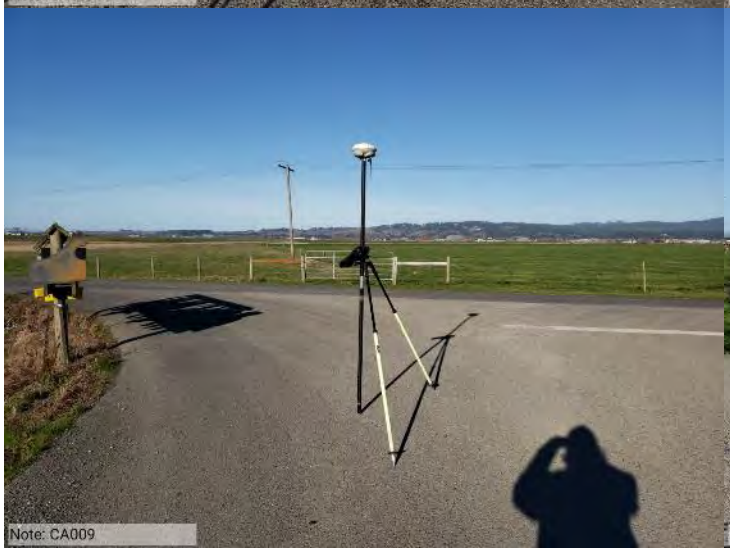
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	CA010
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Hydesville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4487979.86	409832.275	39.320

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

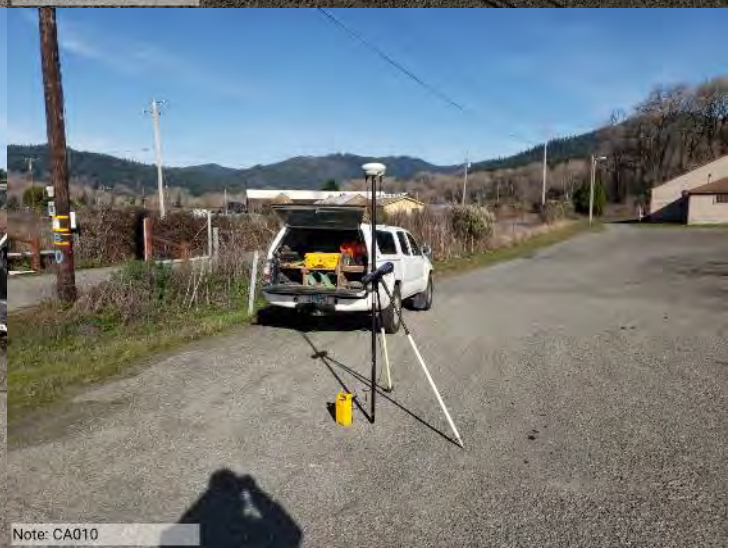
Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	CA011
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Owl Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4487524.877	422192.818	689.274

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	CA012
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Yager Junction

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4490184.006	432093.310	994.478

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA013
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Larabee Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481664.874	437148.371	653.004

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	CA014
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Capetown

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481974.221	384528.214	280.414

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

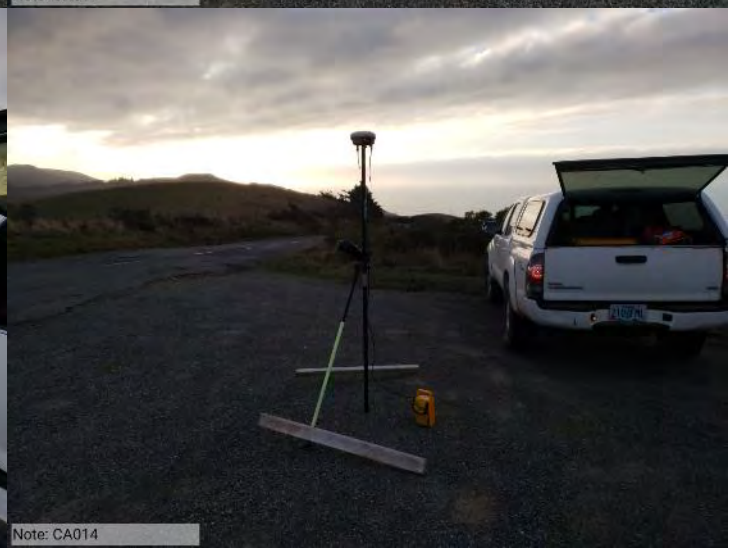
Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	CA015
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Capetown

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4483592.445	393375.458	611.182

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.012
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA016
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Taylor Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

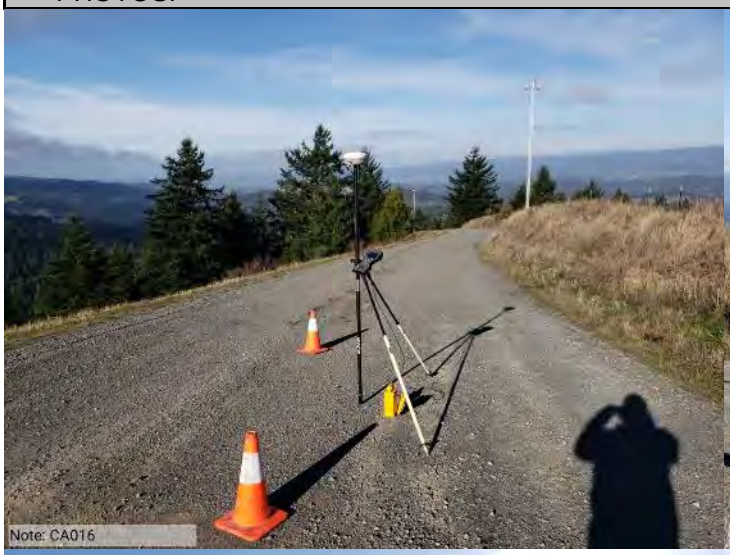
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4478488.261	403208.891	593.409

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.010
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA017
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Redcrest

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481021.872	419793.979	90.501

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	CA018
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Yager Junction

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

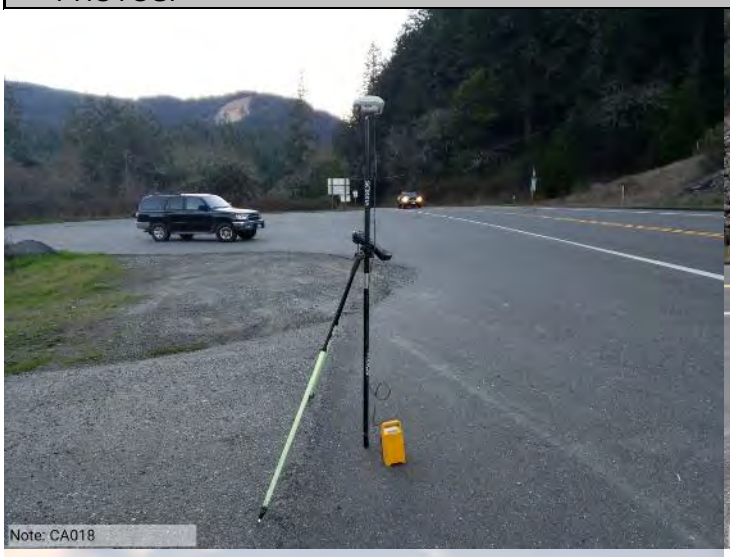
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4480072.358	432050.019	208.813

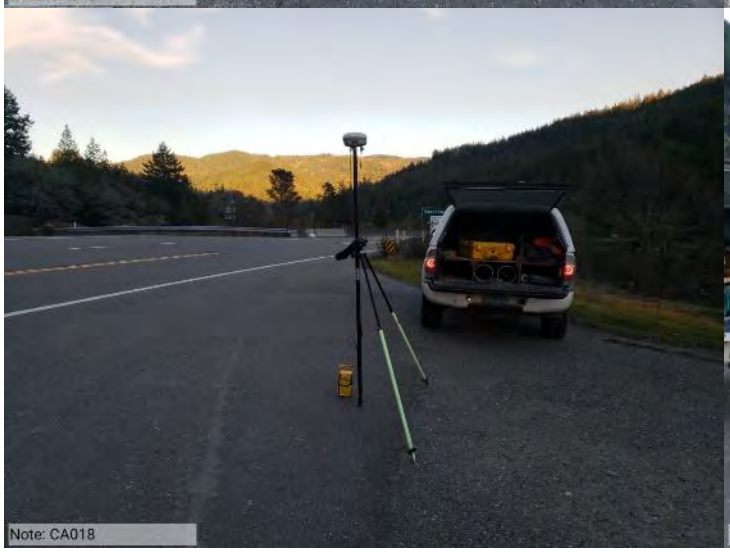
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.009
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA019
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Larabee Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4476857.649	442368.943	751.042

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.012
RMSE Z	0.021
GPS Method	Fast Static

PHOTOS:









Point ID	CA020
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Dinsmore

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

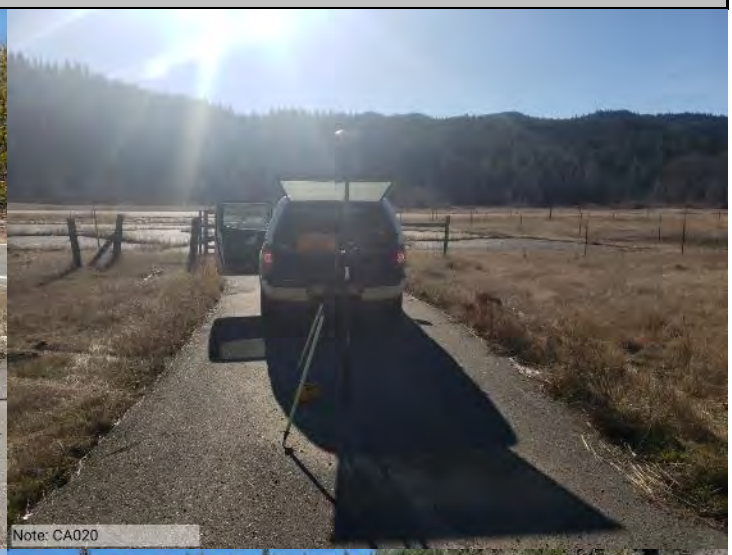
Northing	Easting	Elevation
4482504.806	449616.742	729.165

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

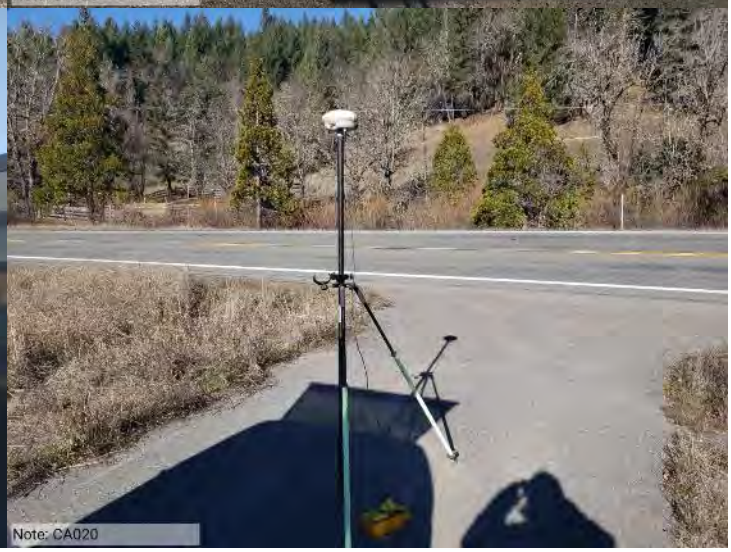
Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA021
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4469535.674	384369.955	10.059

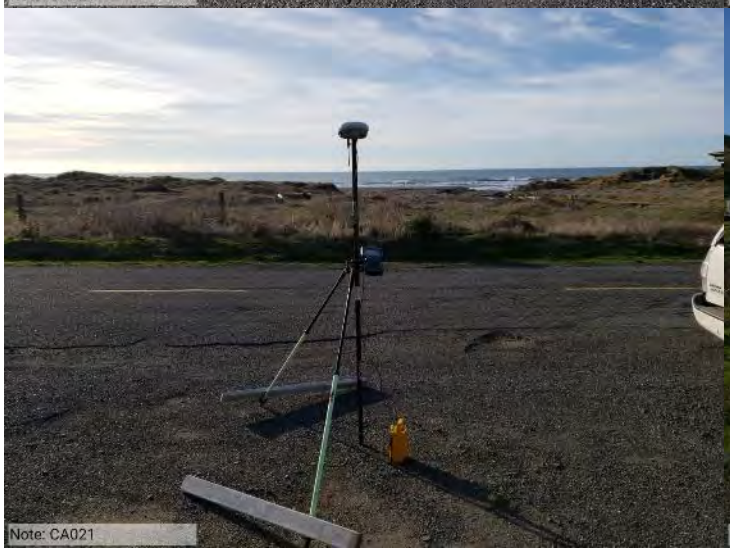
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

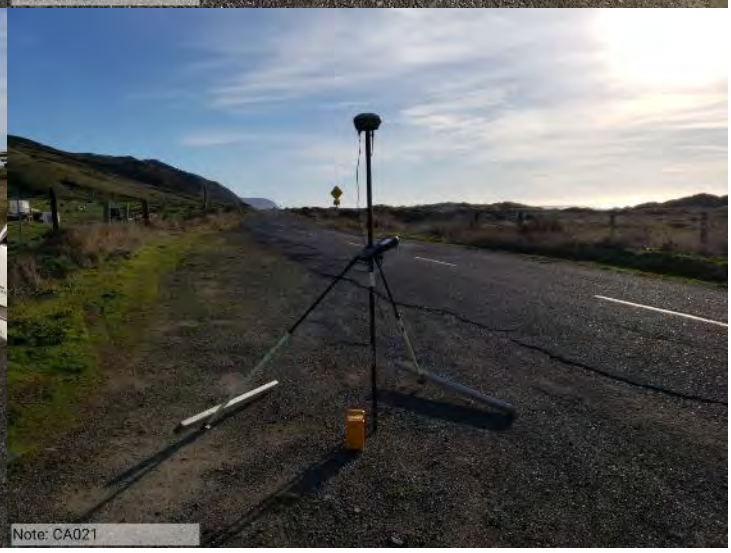
Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA022
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464866.014	389890.608	37.121

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:









Point ID	CA023
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Weott

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4467608.998	421502.800	52.311

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/18/2019
RMSE Hz	0.008
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:



Point ID	CA024
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Weott

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

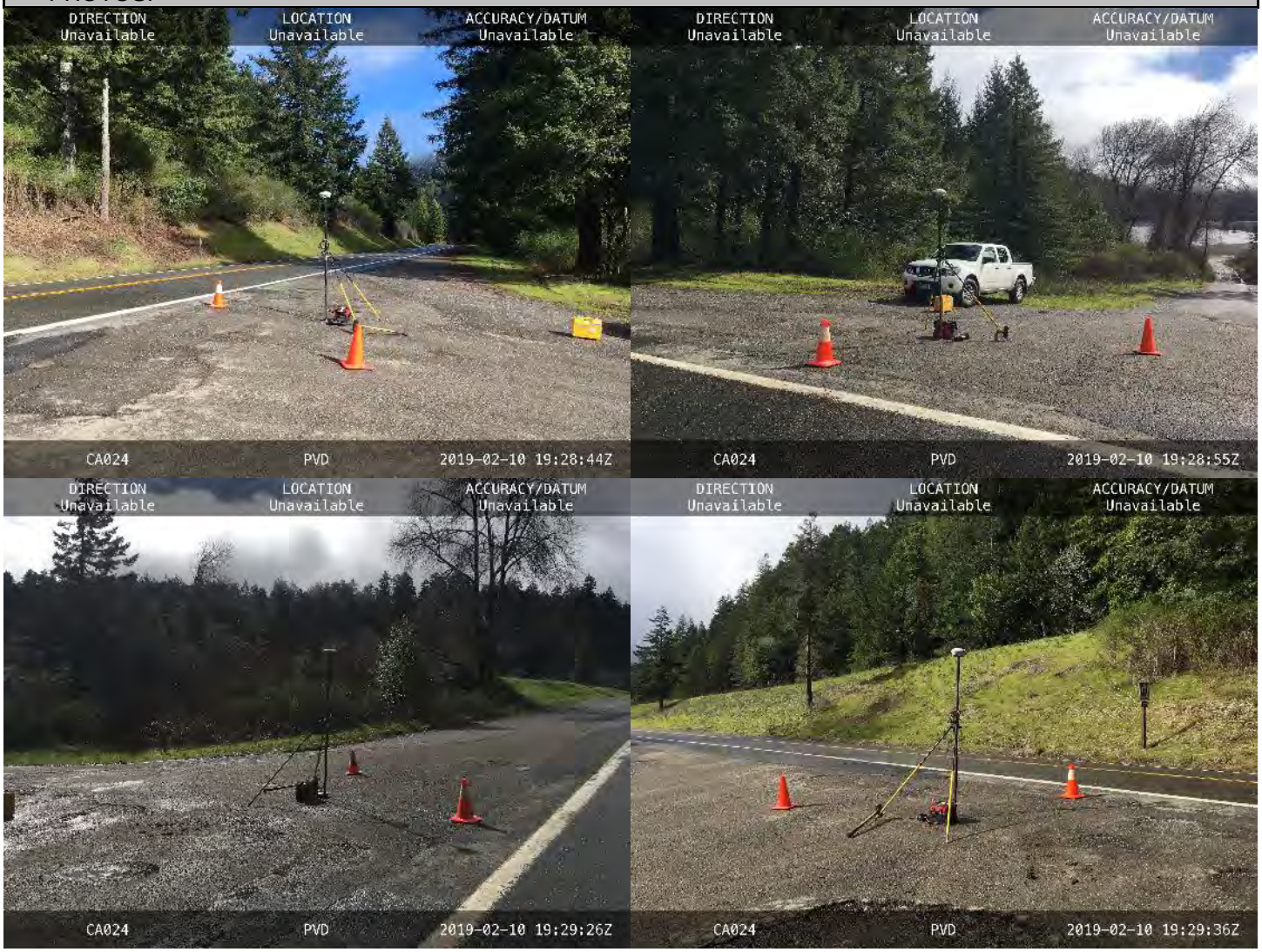
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4467774.823	421661.404	51.933

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-10--2019
RMSE Hz	0.008
RMSE Z	0.017
GPS Method	FS

PHOTOS:



Point ID	CA025
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

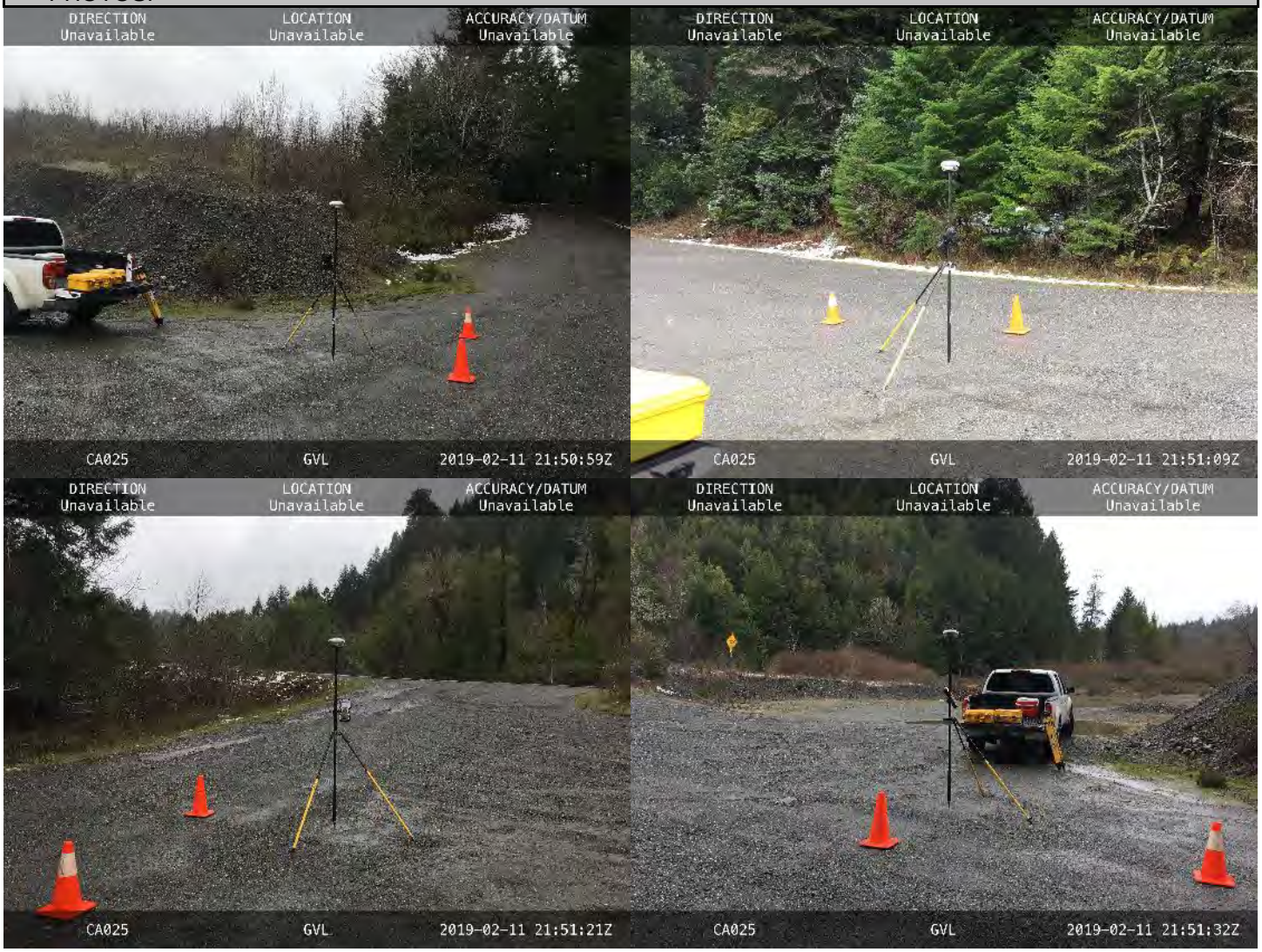
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464675.293	443072.149	362.619

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.012
RMSE Z	0.021
GPS Method	FS

PHOTOS:



Point ID	CA026
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bridgeville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4474591.906	435203.341	509.651

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.009
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	CA027
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4468887.217	437978.228	359.444

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA028
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Alderpoint

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

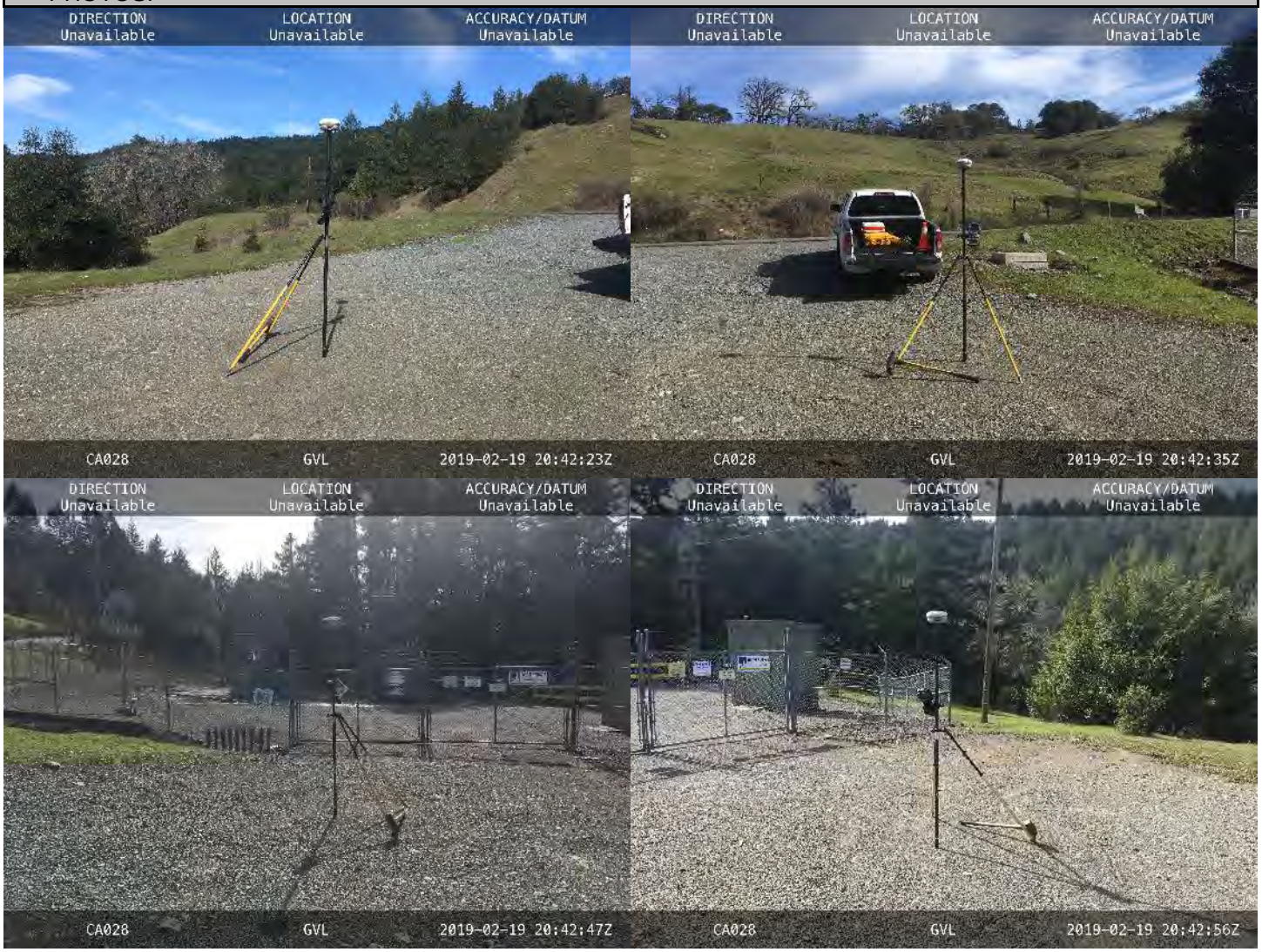
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451685.786	449249.928	156.528

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	CA029
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4460722.328	384739.070	5.253

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA030
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Buckeye Mtn

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4459104.106	394616.498	59.068

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.009
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	CA031
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bull Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4458017.403	407581.886	714.978

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA032
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Myers Flat

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4457659.476	425980.538	62.941

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA033
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Meyers Flat

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4456238.345	435024.92	646.381

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-09-2019
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA034
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fort Seward

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451983.361	445692.608	109.82

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-09-2019
RMSE Hz	0.010
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	CA035
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4458433.568	446024.960	468.577

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	FS

PHOTOS:



Point ID	CA036
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Ruth Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4459795.913	466454.261	1173.215

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	CA037
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Shasta
Quad	Lassen Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4480515.267	625953.335	2496.151

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.021
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA038
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Shasta
Quad	Reading Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4482634.031	633151.274	2105.014

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	FastStatic

PHOTOS:









Point ID	CA039
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Mount Harkness

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4477184.486	640031.500	1611.217

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.011
RMSE Z	0.018
GPS Method	FastStatic

PHOTOS:









Point ID	CA040
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Red Cinder

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4473812.855	654603.699	1837.266

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.008
RMSE Z	0.019
GPS Method	FastStatic

PHOTOS:









Point ID	CA041
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Swain Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4478939.955	663605.475	1769.521

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.028
RMSE Z	0.032
GPS Method	FastStatic

PHOTOS:









Point ID	CA042
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Shelter Cove

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440203.383	408319.514	760.857

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-04-2019
RMSE Hz	0.007
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	CA043
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ettersburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443602.858	415028.569	207.308

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.013
RMSE Z	0.022
GPS Method	Fast Static

PHOTOS:









Point ID	CA044
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ettersburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4442986.363	424281.193	407.531

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA045
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Miranda

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4448049.859	433590.797	80.874

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA046
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fort Seward

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4442528.990	446287.184	576.754

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA047
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Zenia

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443787.322	458708.040	1011.104

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-03-2018
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Point ID	CA048
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Long Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440789.22	469684.895	853.694

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-03-2018
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	CA049
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Four Corners Rock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

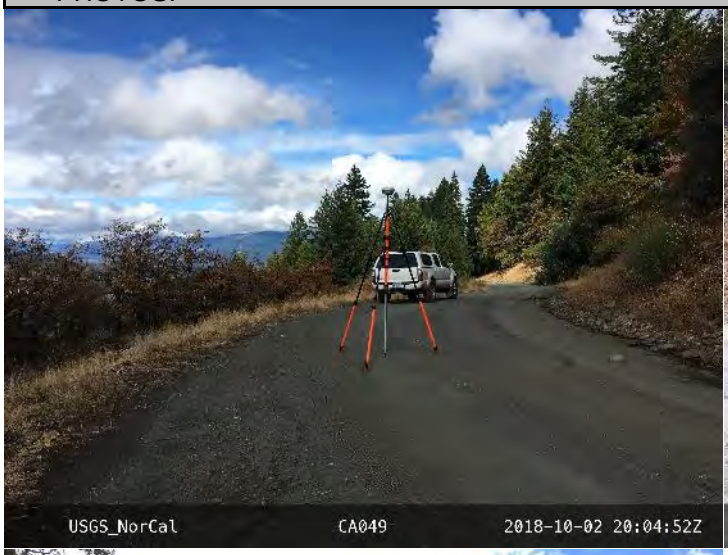
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4441038.269	480059.917	1401.452

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	CA050
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Swim Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

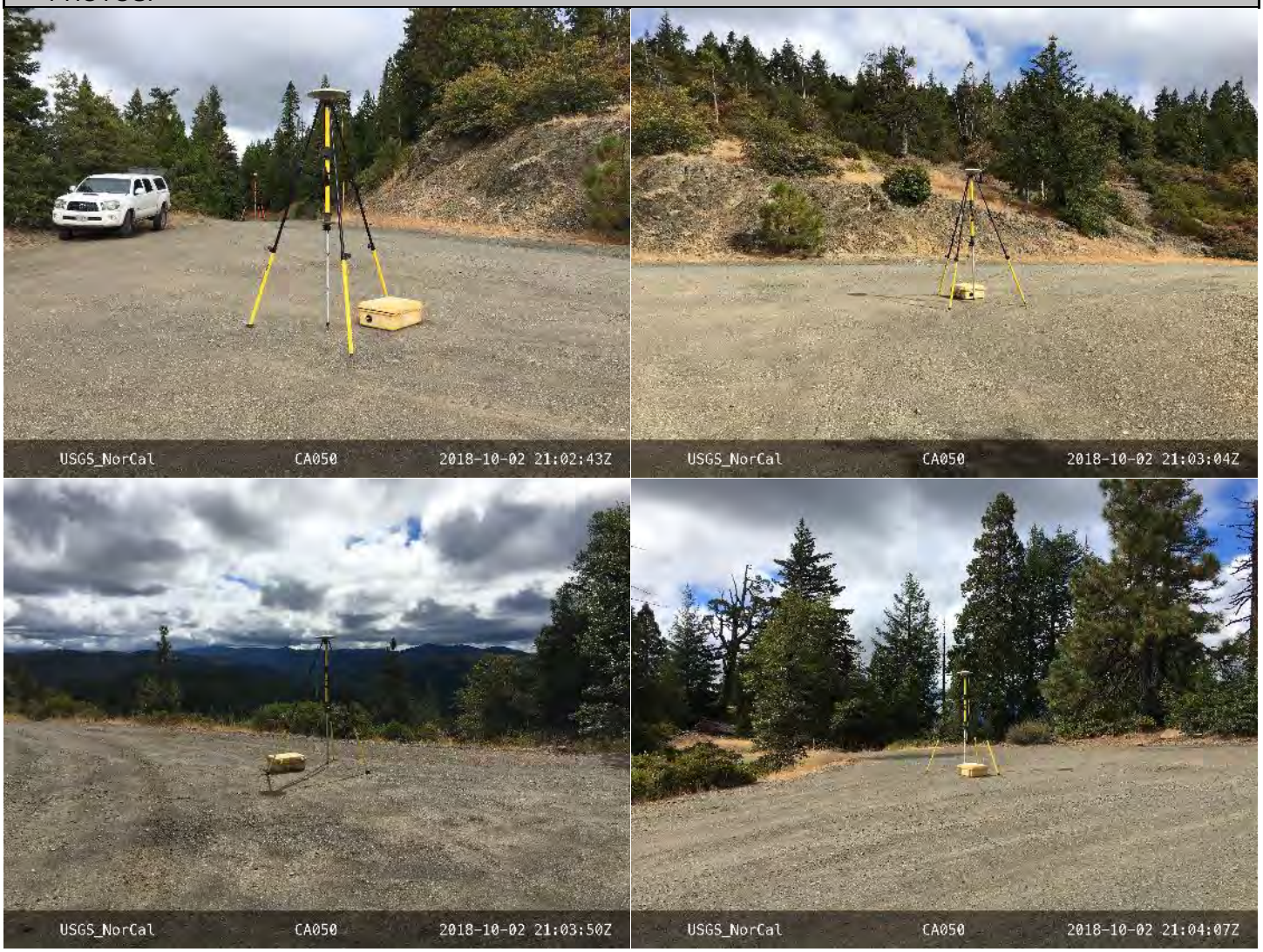
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443187.600	488749.723	1699.237

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:



Point ID	CA051
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Mineral

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4469076.766	626511.833	1480.500

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

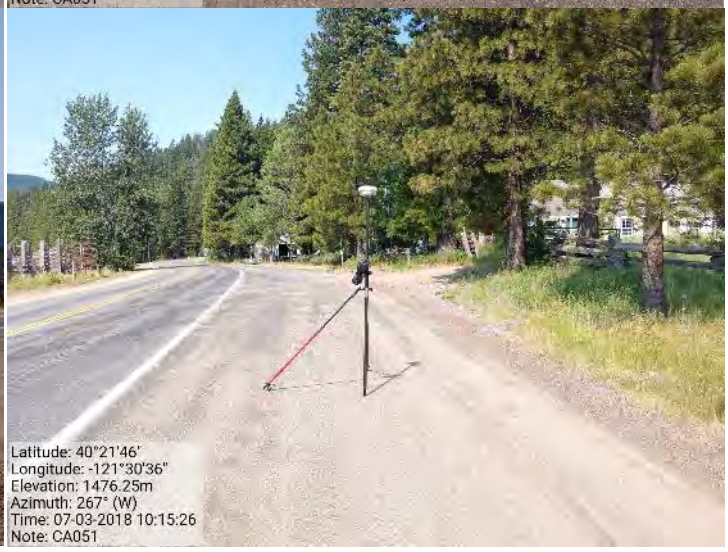
Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	CA052
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Childs Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4467001.423	636908.517	1778.795

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	FastStatic

PHOTOS:









Point ID	CA053
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chester

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

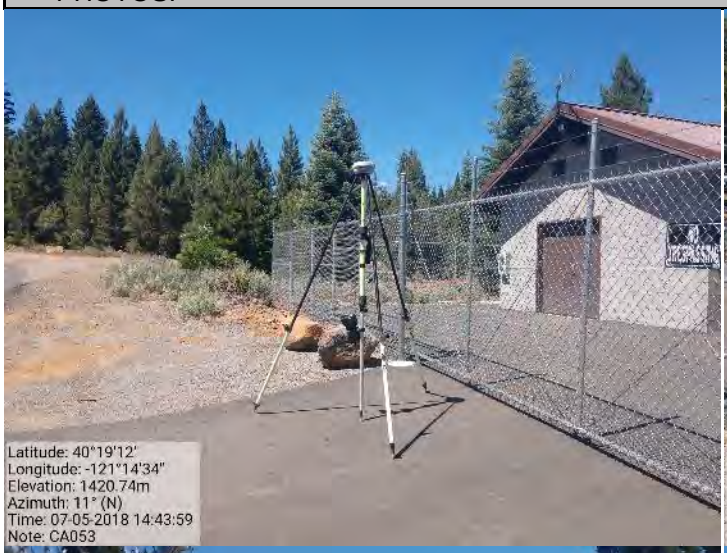
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464776.140	649290.849	1415.888

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.011
RMSE Z	0.028
GPS Method	FastStatic

PHOTOS:









Point ID	CA054
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chester

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4463350.533	657805.625	1489.408

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.009
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA055
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Westwood West

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4463360.121	669247.728	1551.745

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.006
RMSE Z	0.013
GPS Method	RTK

PHOTOS:









Point ID	CA056
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lassen
Quad	Fredonyer Pass

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4470179.575	681928.681	1702.725

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA057
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Shelter Cove

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

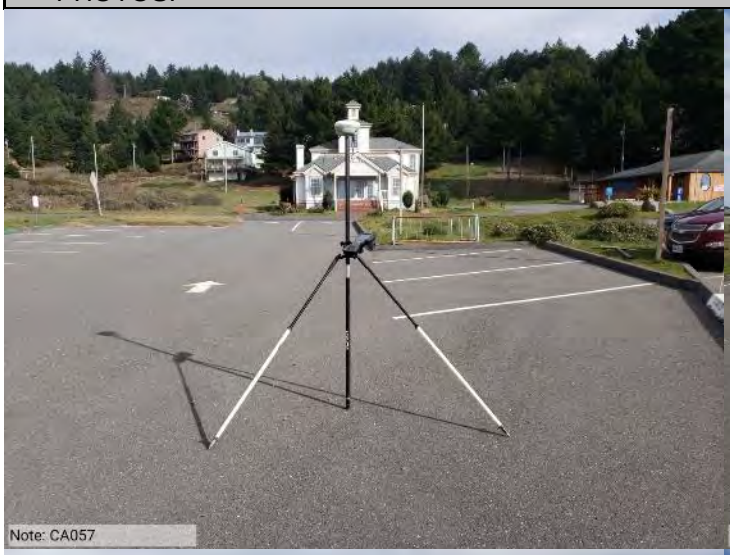
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4431151.535	408713.716	19.356

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-04-2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:









Point ID	CA058
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Briceland

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4435212.127	417784.948	296.138

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA059
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Garberville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4439352.233	432431.488	164.829

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:









Point ID	CA060
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Harris

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4439431.76	441015.492	918.44

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.010
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:









Point ID	CA061
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Jewett Rock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432764.98	449624.486	672.733

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	CA062
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Lake Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4436465.241	466530.802	1013.958

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-26-2018
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:









Point ID	CA063
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Red Bluff East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4447055.472	566180.632	81.097

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	CA064
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Tuscan Springs

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451050.856	574561.752	240.592

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.019
RMSE Z	0.031
GPS Method	RTK

PHOTOS:









Point ID	CA065
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Tuscan Springs

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4452590.23	582551.805	333.794

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	CA066
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Barkley Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4449495.630	615077.497	1261.224

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.016
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	CA067
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Onion Butte

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451705.655	619831.869	1665.93

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	CA068
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Onion Butte

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4455650.872	627328.513	1477.037

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.007
RMSE Z	0.020
GPS Method	FS

PHOTOS:



Point ID	CA069
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Humbug Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451463.143	646701.489	1422.783

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	RTK

PHOTOS:



Point ID	CA070
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Almanor

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

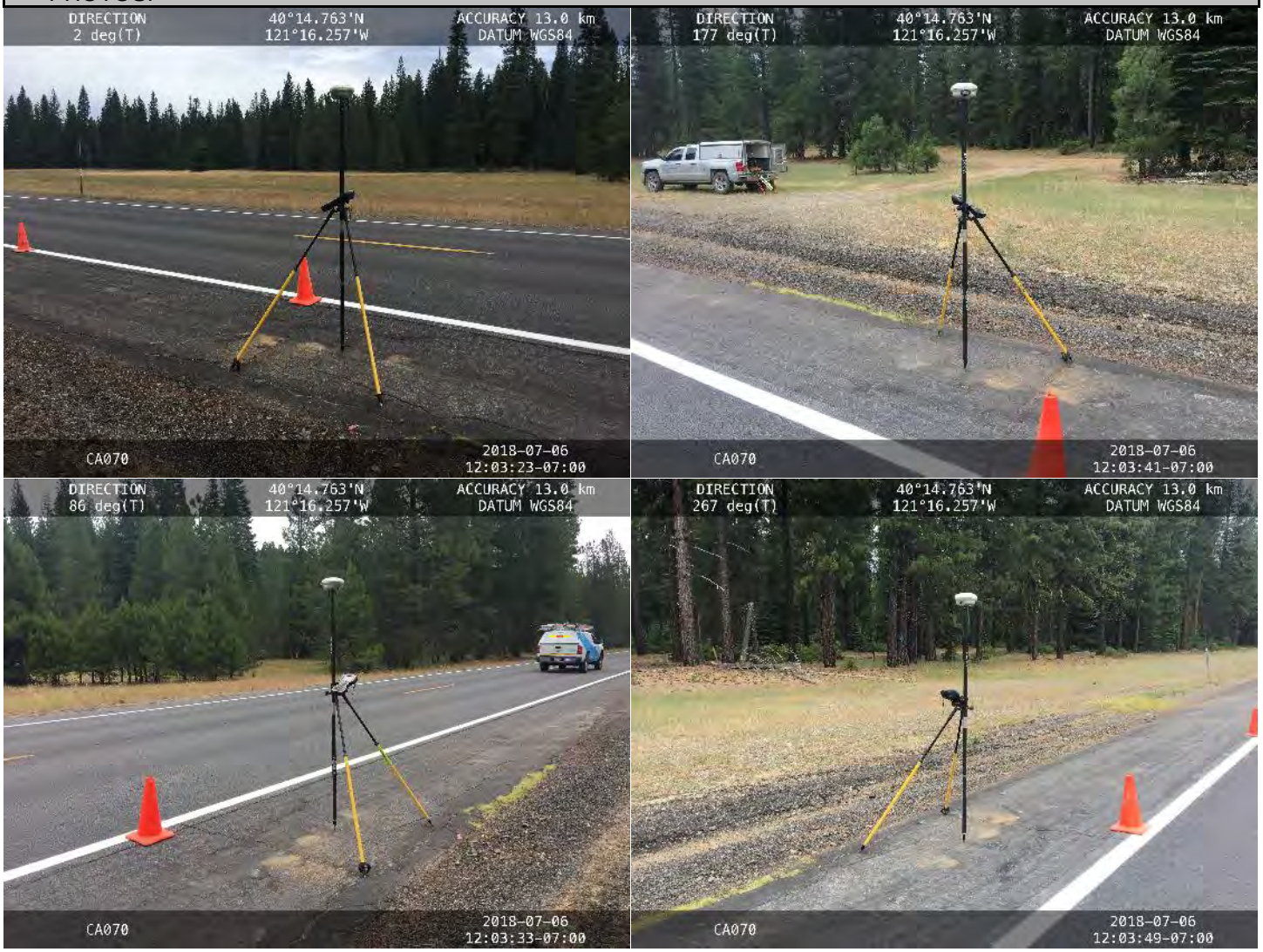
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4454086.686	653053.290	1390.385

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.006
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Point ID	CA071
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Canyondam

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

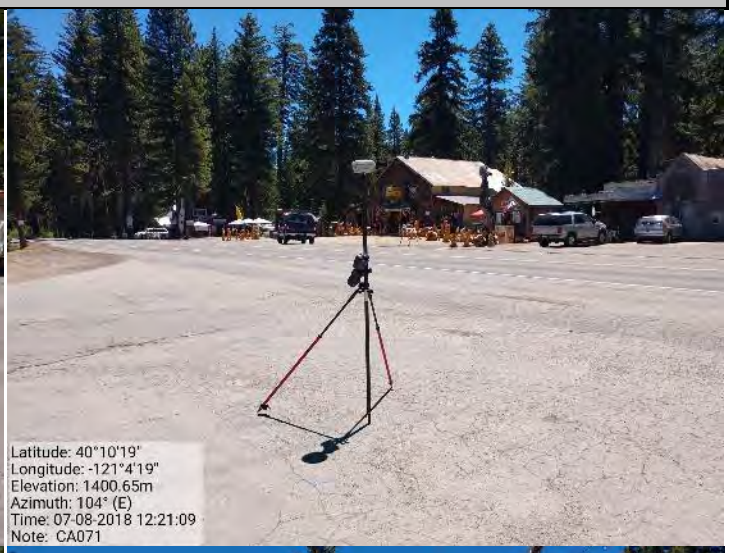
Northing	Easting	Elevation
4448629.625	664168.313	1401.894

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.016
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA072
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bear Harbor

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

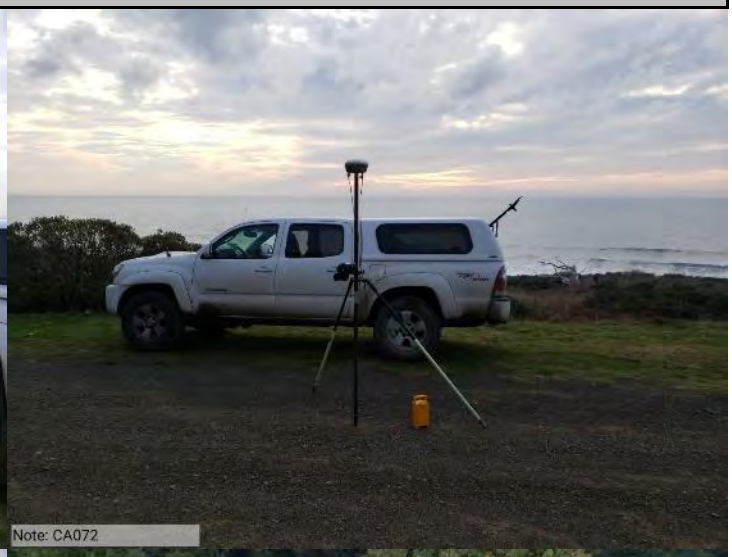
Northing	Easting	Elevation
4421850.595	417567.719	60.564

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-04-2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	CA073
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Piercy

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4424332.091	432149.937	240.501

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA074
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Noble Butte

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422786.336	440486.844	764.423

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	CA075
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Tan Oak Park

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4421958.842	450310.723	1114.151

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.016
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA076
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Mina

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422866.098	469508.167	582.632

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-26-2018
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:



Point ID	CA077
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Mina

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4425894.182	477443.016	677.415

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-26-2018
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	CA078
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Leech Lake Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422025.161	496403.166	1224.011

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:



Point ID	CA079
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Buck Rock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4416736.932	504490.953	1904.098

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-23-2018
RMSE Hz	0.009
RMSE Z	0.017
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA080
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Riley Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422044.760	526659.414	1044.251

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA081
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Paskenta

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4424884.499	538514.070	294.231

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA082
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Red Bank

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429685.257	551320.252	166.112

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.020
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA083
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	West of Gerber

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4428171.931	559847.147	118.004

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA084
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Gerber

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429648.144	572929.479	71.125

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA085
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Los Molinos

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429745.328	577104.11	65.222

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA086
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Devils Parade Ground

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432441.957	609316.429	1225.854

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA087
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Butte Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

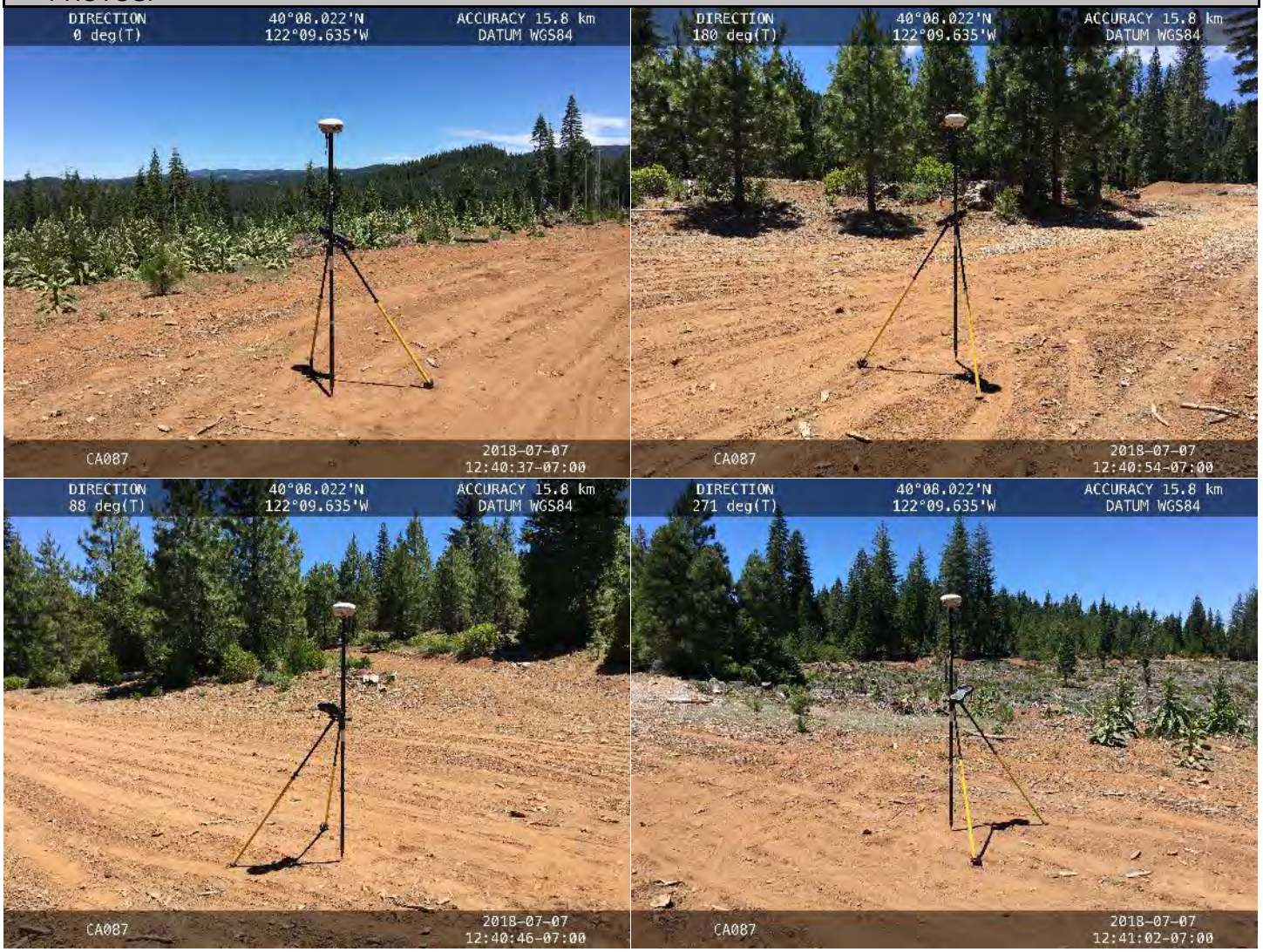
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4437277.699	622187.413	1328.674

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	FS

PHOTOS:



Point ID	CA088
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Butte Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

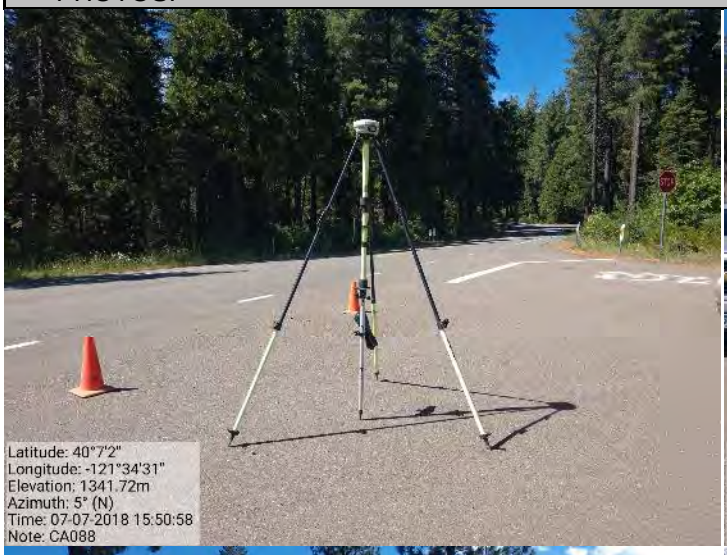
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4441740.484	621400.907	1335.277

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.023
RMSE Z	0.031
GPS Method	FastStatic

PHOTOS:









Point ID	CA089
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Butte Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

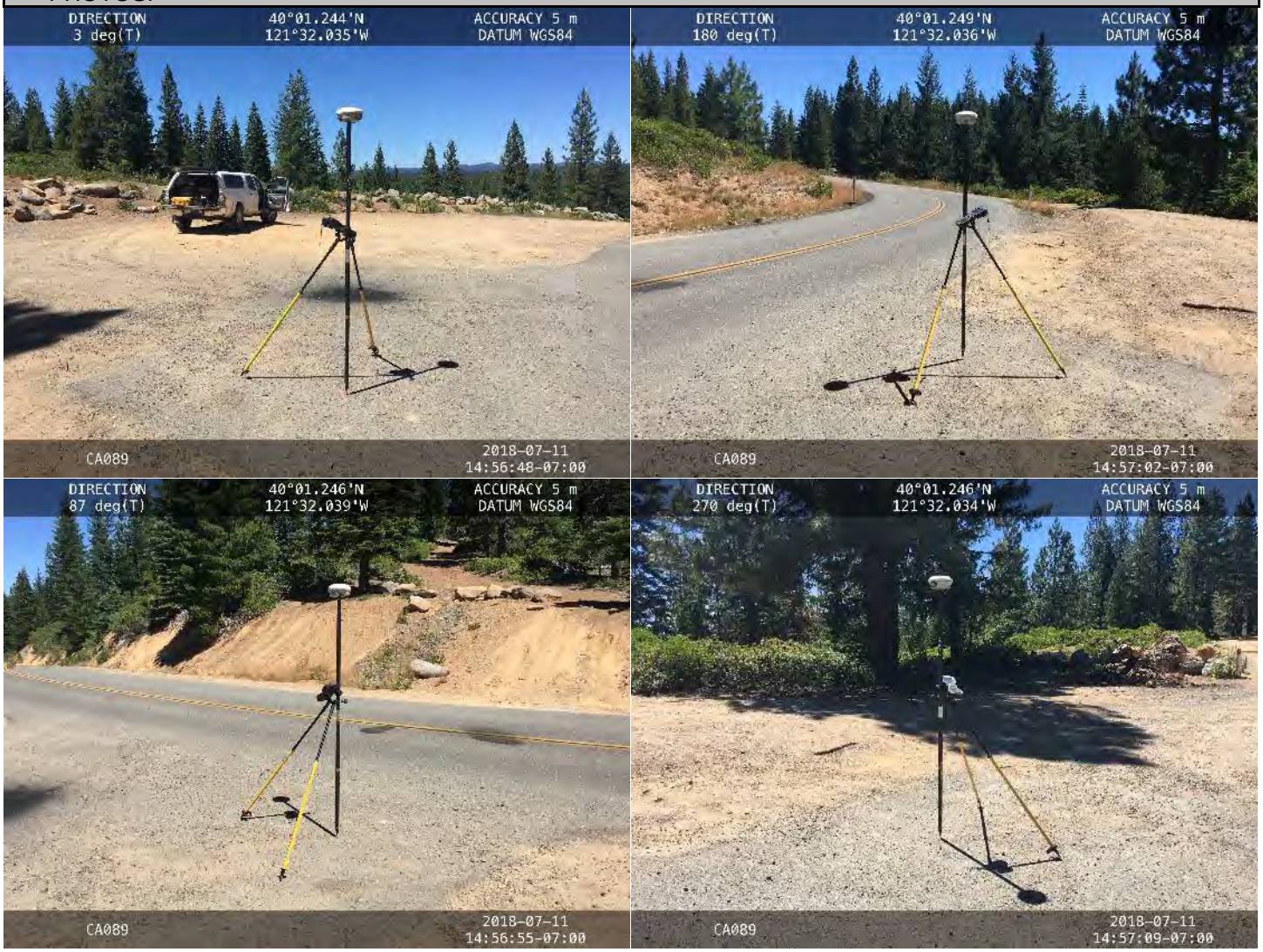
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4431088.497	625111.112	1589.208

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.009
RMSE Z	0.027
GPS Method	FS

PHOTOS:



Point ID	CA090
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Belden

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429645.657	648459.184	679.613

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA091
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Humbug Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4445100.182	648794.492	1315.819

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA092
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Caribou

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4437887.196	656755.225	914.838

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.028
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA093
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Jonesville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4441480.073	629635.261	1506.7

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.008
RMSE Z	0.024
GPS Method	FastStatic

PHOTOS:









Point ID	CA094
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Hales Grove

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409460.622	427309.509	4.661

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-07-2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA095
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Humboldt

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413397.575	438928.876	287.456

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA096
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Tan Oak Park

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413307.763	450673.242	928.907

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	Fast Static

PHOTOS:









Point ID	CA097
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Iron Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407685.819	456444.518	1039.469

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/20/2019
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	CA098
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Covelo West

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4412866.529	476700.882	739.592

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:



Point ID	CA099
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Covelo East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407448.025	488777.598	438.062

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	CA100
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Mendocino Pass

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407386.135	500560.155	1065.221

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-23-2018
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA101
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehana
Quad	Log Spring

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

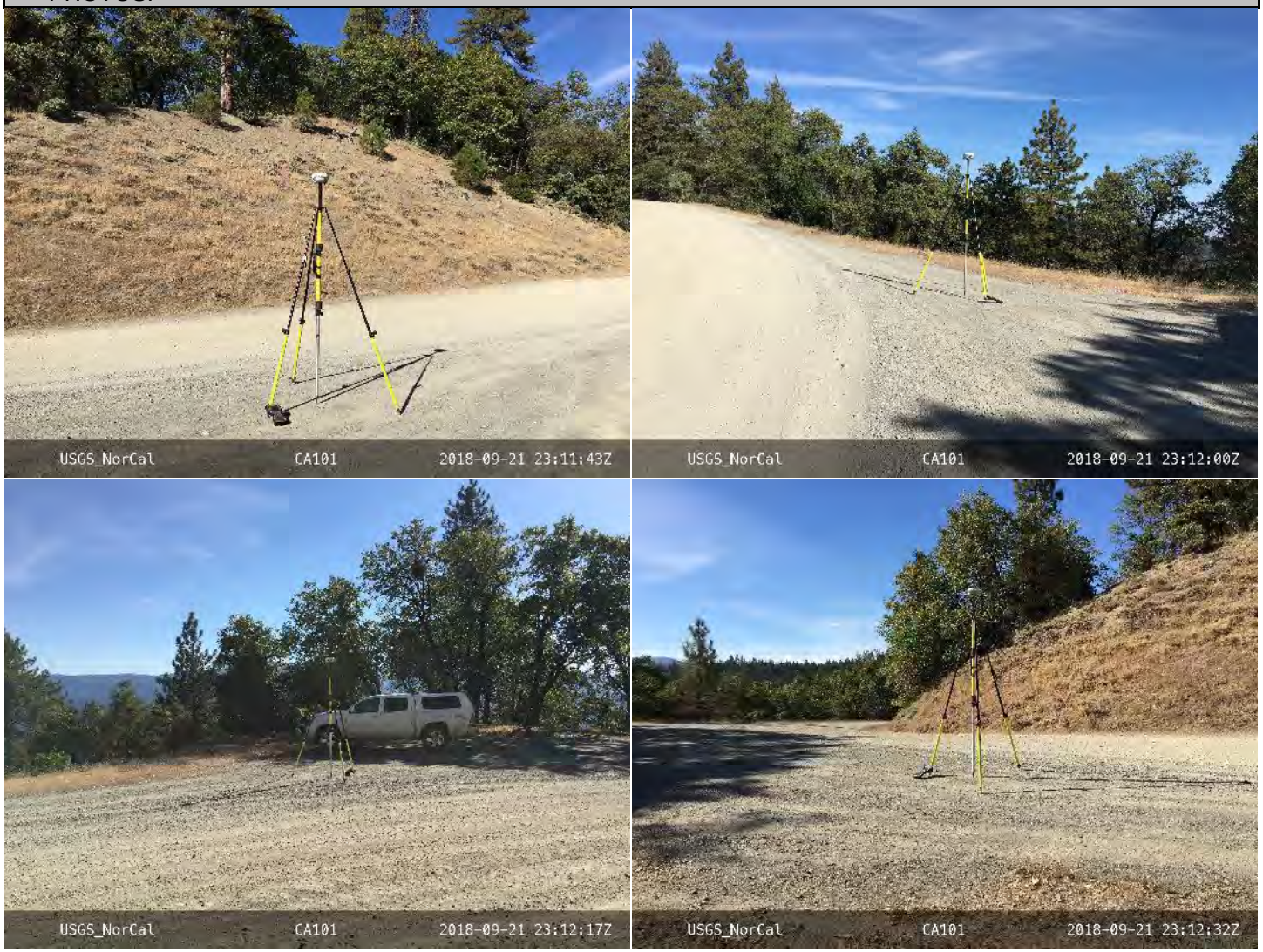
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409013.096	514426.065	1558.176

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA102
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Hall Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408065.118	525083.809	1234.993

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA103
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Newville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407251.105	536840.517	222.120

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA104
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Sehorn Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406671.590	549394.049	163.671

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA105
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Black Butte Dam

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4405637.988	563280.442	98.624

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA106
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Flournoy

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

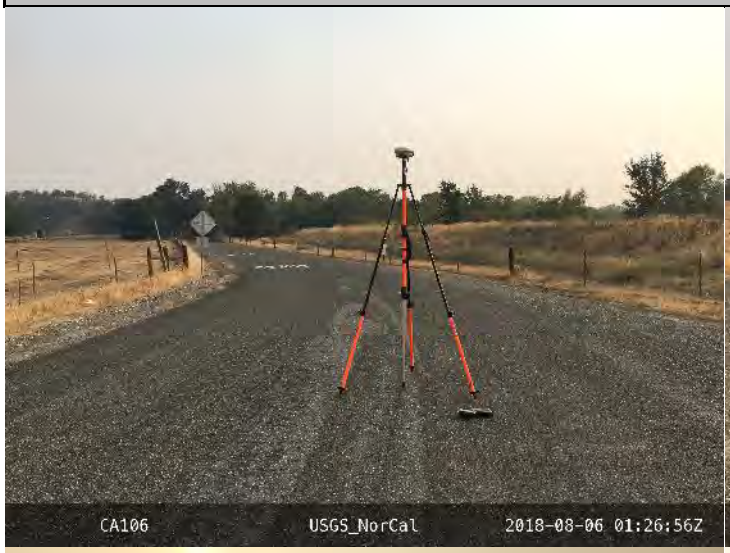
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4418862.269	548054.318	172.403

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA107
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Corning

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4417467.670	568429.660	84.023

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:









Point ID	CA108
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Kirkwood

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409069.652	573519.588	65.775

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-10-2019
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA109
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Nord

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406988.025	587407.135	47.970

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	CA110
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Richardson Springs NW

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4415998.302	586757.965	63.795

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	CA111
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Paradise West

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408463.791	610296.062	515.507

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/5/2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA112
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Paradise East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408106.081	621143.934	686.923

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA113
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Cohasset

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4423493.177	615343.591	1019.935

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.019
RMSE Z	0.028
GPS Method	FS

PHOTOS:



Point ID	CA114
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Pulga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407955.086	629700.020	1004.644

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA115
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4410705.345	644771.373	1642.258

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	FS

PHOTOS:



Point ID	CA116
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Haskins Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4414569.475	654756.303	1578.748

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	RTK

PHOTOS:









Point ID	CA117
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Storrie

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4424251.785	645734.312	625.123

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.009
RMSE Z	0.021
GPS Method	FastStatic

PHOTOS:









Point ID	CA118
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dogwood Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4411882.040	661049.474	1791.365

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.008
RMSE Z	0.017
GPS Method	FS

PHOTOS:









Point ID	CA119
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blue Nose Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4412593.408	689966.866	1672.544

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA120
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Johnsonville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413023.722	698604.112	1355.159

Operator	Gabe Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	CA121
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Grizzly Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422716.265	706934.612	1771.089

Operator	Gabe Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	CA122
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Grizzly Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4417395.599	711248.846	2031.277

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	CA123
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Portola

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4415752.853	718516.931	1632.994

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA124
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dixie Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4420425.117	731563.428	1811.524

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

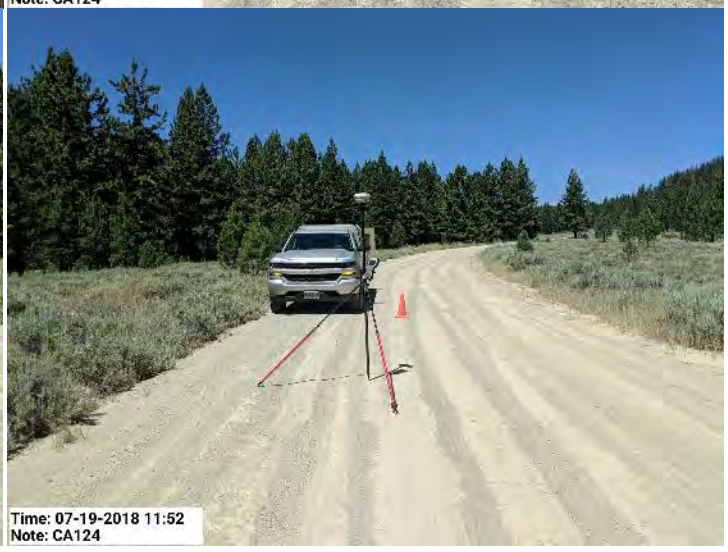
Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.008
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA125
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	McKesick Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4433383.491	736408.791	1830.726

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA126
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Frenchman Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4418222.72	742976.772	1806.867

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:









Point ID	CA127
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Frenchman Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4425015.700	738019.064	1715.805

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.018
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA128
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Westport

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4395905.162	430825.935	28.214

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-07-2019
RMSE Hz	0.009
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:



Point ID	CA129
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Leggett

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408780.208	443036.924	432.756

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-07-2019
RMSE Hz	0.011
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:



Point ID	BE130
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Cahto Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4400019.578	454534.092	456.327

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-28-2018
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	CA131
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Iron Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4401515.390	465105.446	581.810

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	09-28-2018
RMSE Hz	0.007
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA132
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Covelo East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4403434.354	478656.157	423.157

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:









Point ID	CA133
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399997.065	491082.723	1090.873

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	CA134
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4396413.791	499546.765	1613.516

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.009
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:



Point ID	CA135
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4396377.789	511203.019	1969.002

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA0136
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Alder Springs

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

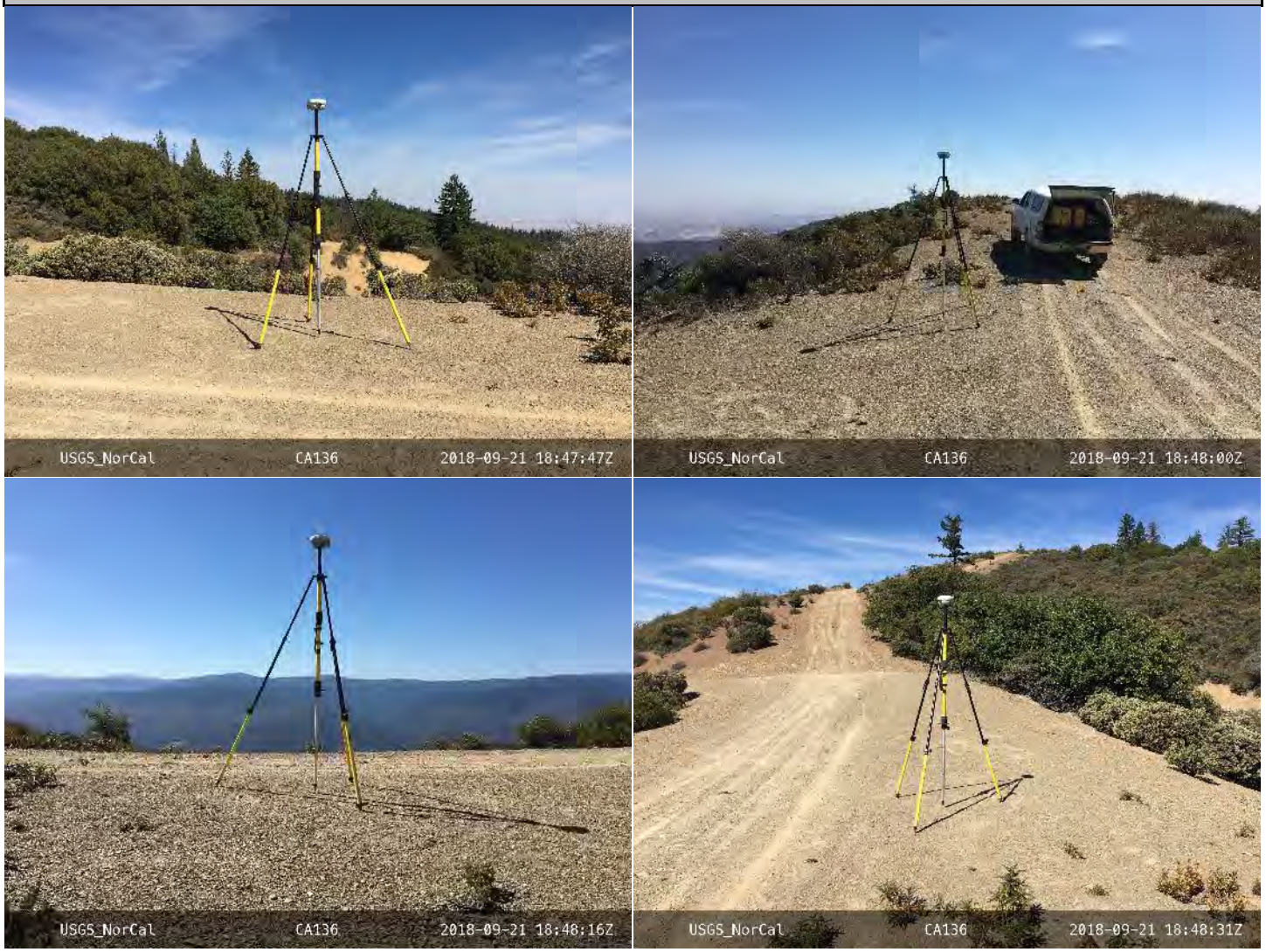
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399890.274	529037.691	1296.994

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA137
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Chrome

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397566.809	538608.738	285.445

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA138
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Julian Rocks

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

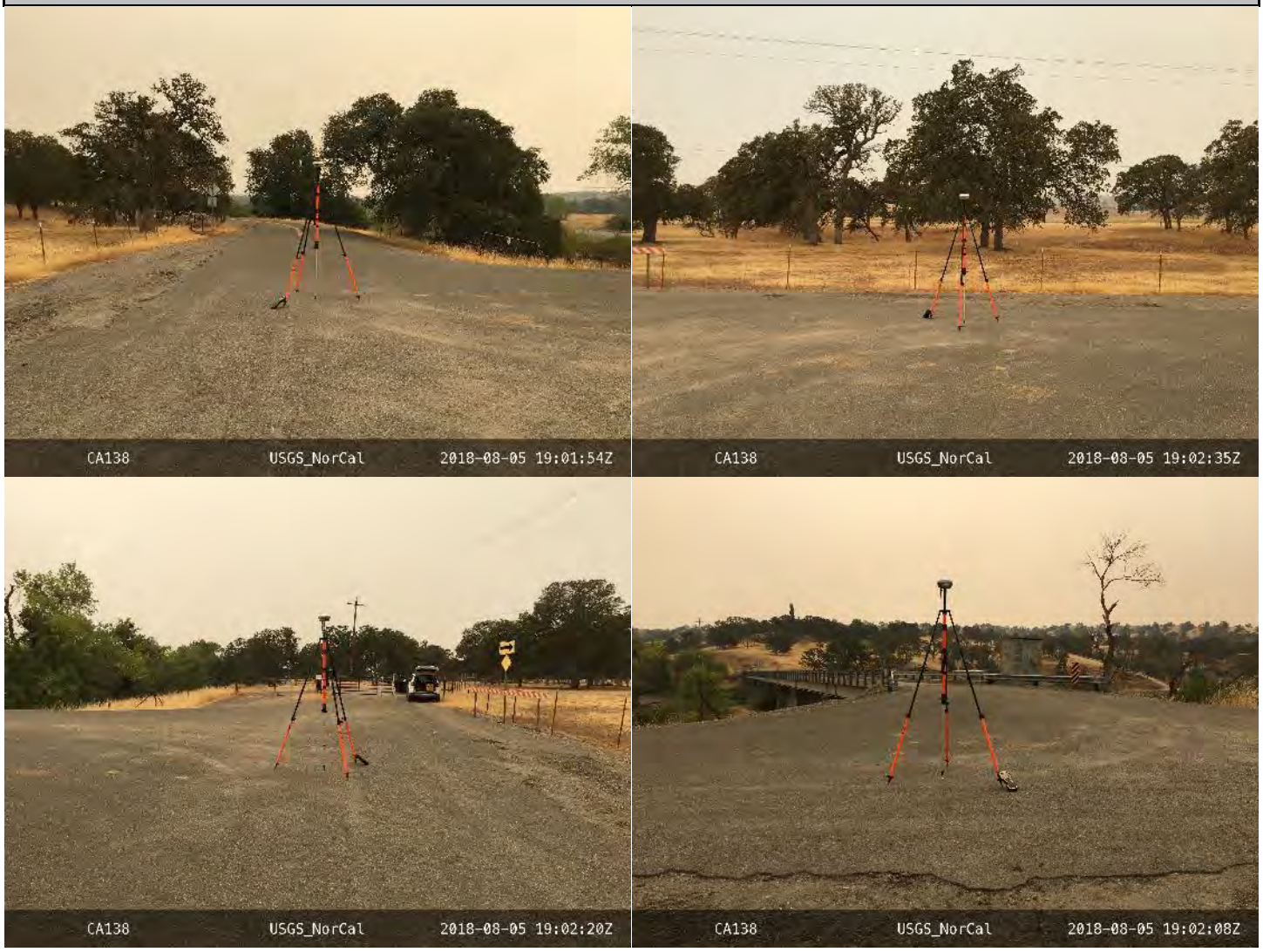
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398213.979	550129.536	156.206

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA139
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398842.740	564406.448	86.202

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTN

PHOTOS:









Point ID	CA140
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

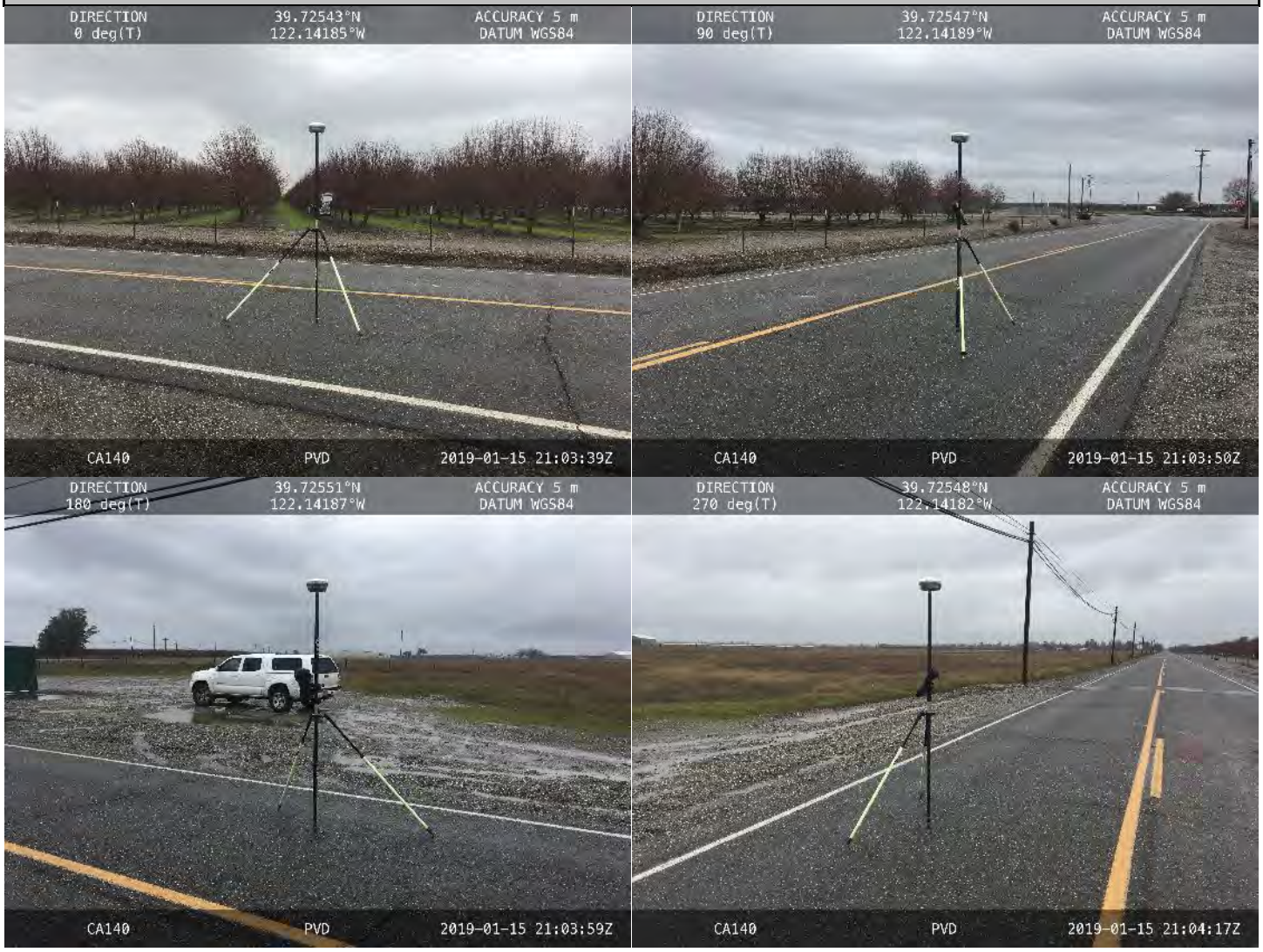
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397640.031	573547.046	64.731

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA141
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Ord Ferry

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399997.051	588635.051	44.106

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:









Point ID	CA142
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398713.841	603250.650	76.863

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	CA143
Project No.	R033371
Project Name	USGS 3DEP NoCal
State	California
County	Butte
Quad	Cherokee

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4400407.725	619259.223	502.336

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/5/2019
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA144
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Cherokee

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397411.727	626816.561	619.799

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	CA145
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406697.819	644800.407	1555.512

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.008
RMSE Z	0.020
GPS Method	FS

PHOTOS:



Point ID	CA146
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Dogwood Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4403216.723	661933.445	1685.826

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-14-2018
RMSE Hz	0.009
RMSE Z	0.027
GPS Method	Fast Static

PHOTOS:









Point ID	CA147
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	American House

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398856.373	669791.582	1541.902

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.015
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	CA148
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Humbug Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404734.063	676436.986	1725.154

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-14-2018
RMSE Hz	0.008
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	CA149
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Johnsonville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404236.679	697213.730	1667.997

Operator	Gabe Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.020
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA150
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blairsden

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4403394.304	708480.988	1409.390

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	CA151
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Reconnaissance Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404107.088	725219.656	1489.737

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.019
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	CA152
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Reconnaissance Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404950.825	734022.674	1491.365

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.018
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	CA153
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Beckwourth Pass

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408610.032	747358.648	1588.961

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.021
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA154
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chilkoot

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4410265.137	736564.359	1495.713

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.022
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	CA155
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Westport

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388431.872	432698.000	26.416

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-07-2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	CA156
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Lincoln Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4392412.278	443562.810	455.903

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/19/2019
RMSE Hz	0.028
RMSE Z	0.028
GPS Method	FS

PHOTOS:









Point ID	CA157
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Laytonville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389347.994	459126.327	513.721

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	CA158
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Dos Rios

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

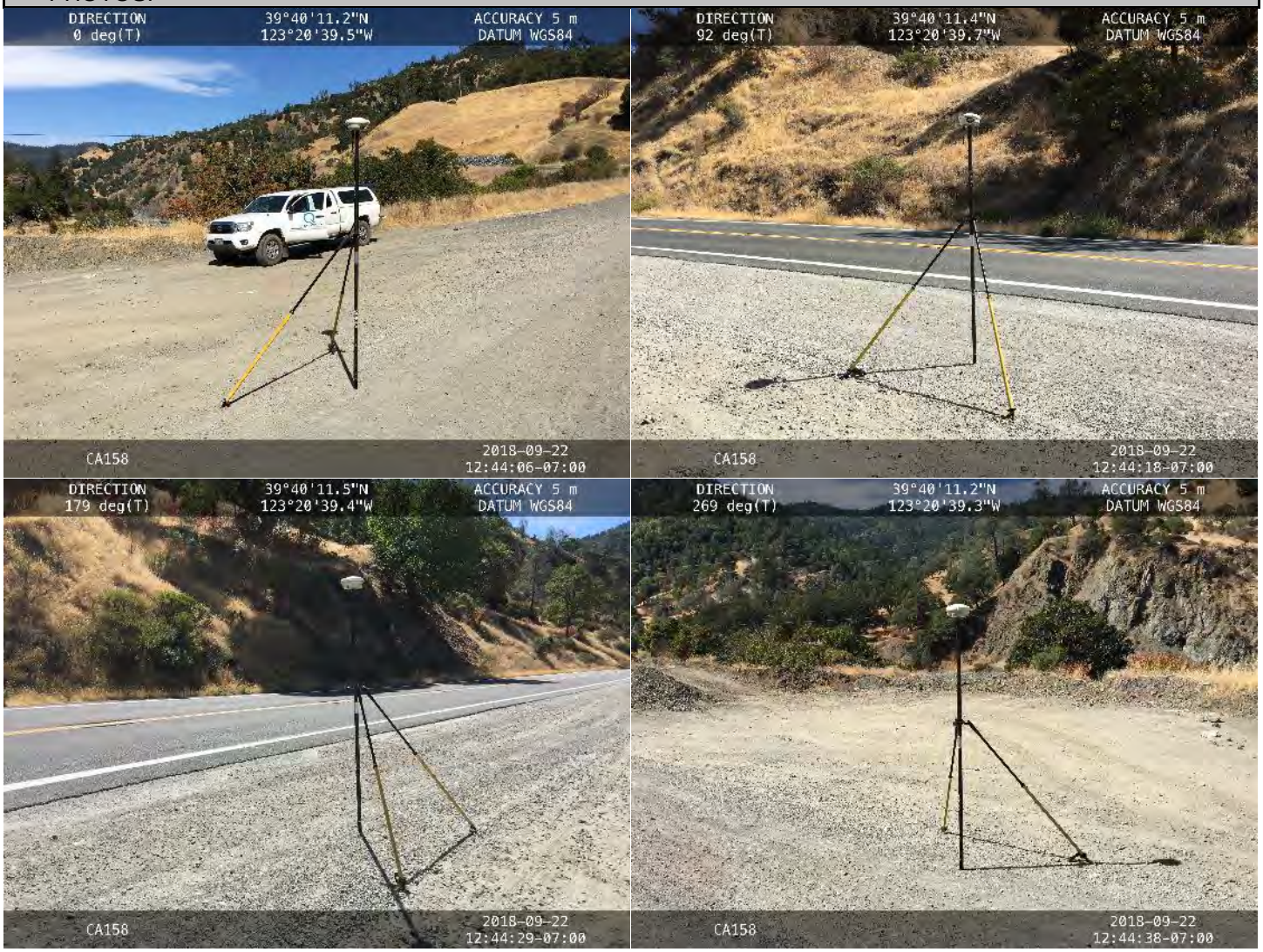
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4391163.491	470468.249	316.321

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	CA159
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Dos Rios

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4395786.420	476643.156	605.103

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:



Point ID	CA160
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386816.260	496517.681	1275.143

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:



Point ID	CA161
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388767.973	513495.598	1733.047

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA0162
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Alder Springs

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386866.044	525111.547	1310.718

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA163
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Chrome

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386426.637	540590.037	214.450

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA164
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Fruto NE

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

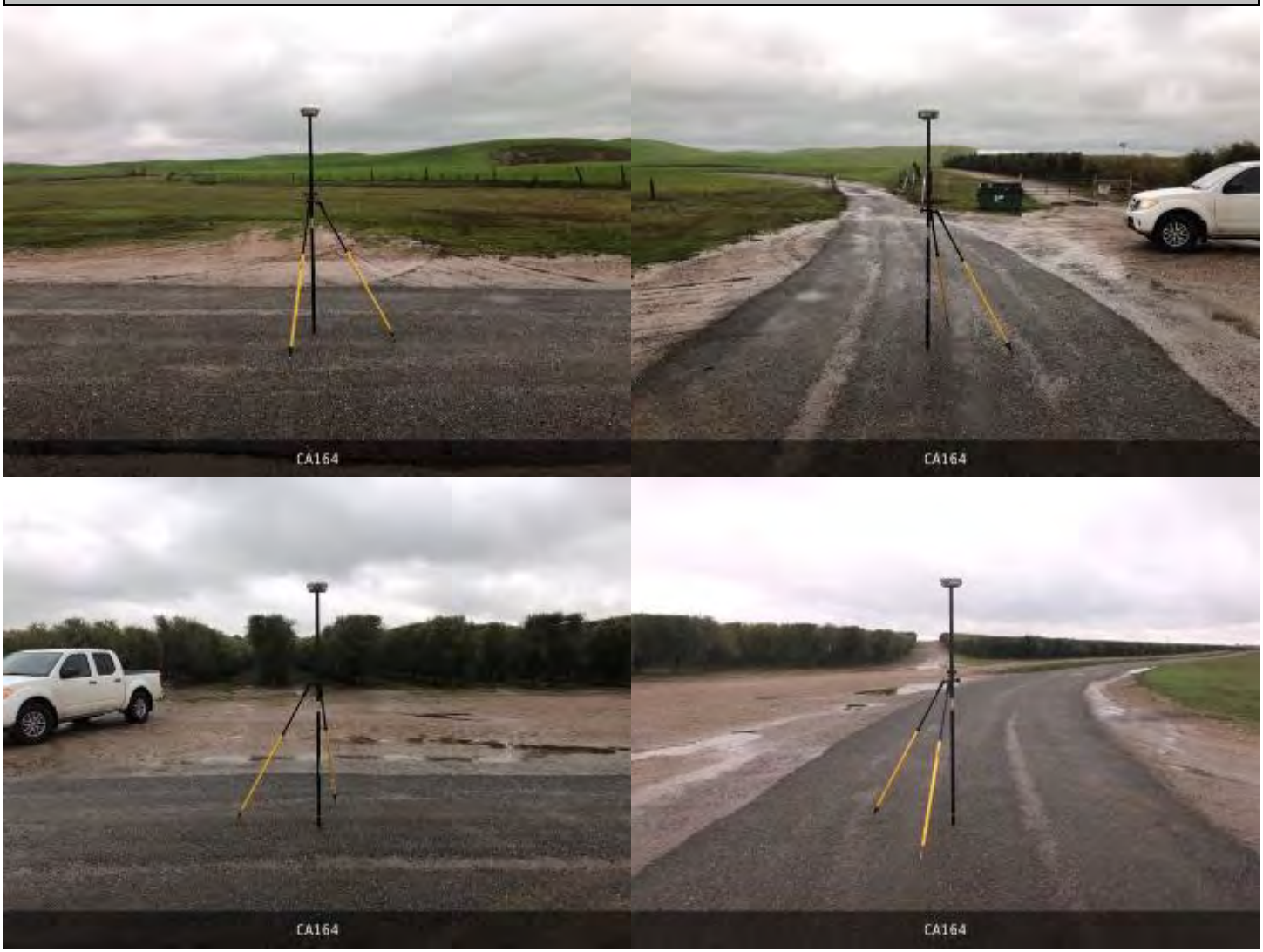
Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385281.340	560669.748	77.098

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/5/2019
RMSE Hz	0.016
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	CA165
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386284.622	569053.027	51.218

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.022
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	CA166
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Hamilton City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386726.251	580240.586	43.822

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.020
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA167
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Ord Ferry

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387240.119	590457.542	35.838

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA168
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387189.103	603555.570	44.749

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA169
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Shippee

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385395.020	613749.567	59.505

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA170
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385911.035	626503.503	426.071

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	CA171
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Berry Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

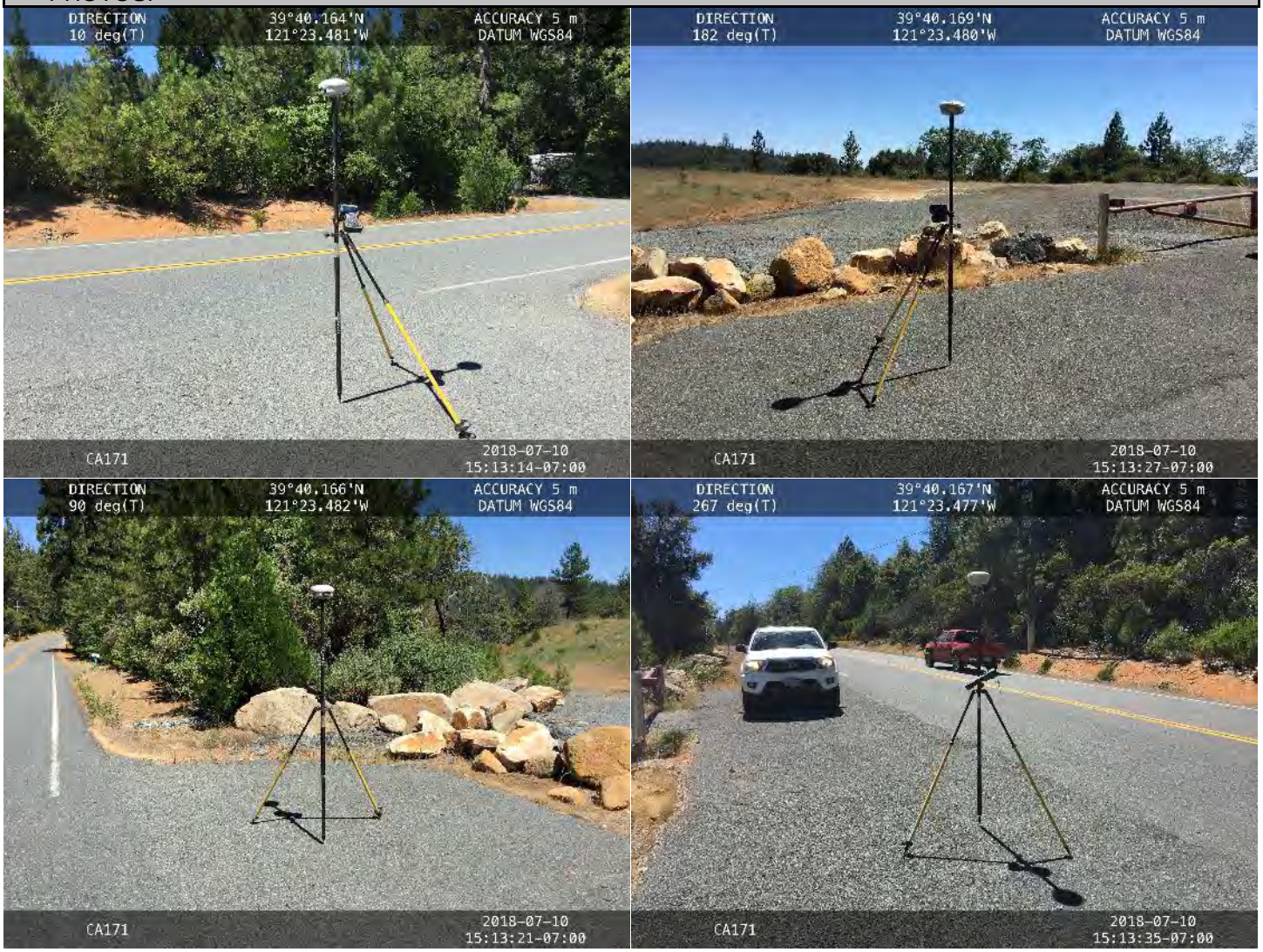
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4392303.856	637983.462	779.742

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	CA172
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387159.611	651641.182	1193.989

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-12-2018
RMSE Hz	0.009
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA173
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Strawberry Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4383229.672	661664.886	1082.539

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.007
RMSE Z	0.013
GPS Method	RTK

PHOTOS:









Point ID	CA174
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Humbug Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4395459.245	676936.300	1394.382

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-14-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	CA175
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Mount Fillmore

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388857.487	683348.659	1823.610

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.015
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	CA176
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sierra City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385311.766	701759.100	2477.820

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA177
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sattely

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388227.226	715485.054	2044.928

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.011
RMSE Z	0.022
GPS Method	Fast Static

PHOTOS:









Point ID	CA178
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Antelope Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4391945.025	725569.909	1531.636

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA179
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Loyalton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4390054.013	740827.473	1657.816

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.018
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA180
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376384.097	458030.219	694.059

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:



Point ID	CA181
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375785.877	467051.208	734.397

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	CA182
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Foster Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4371600.425	482282.919	410.416

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.007
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	CA183
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Hull Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4379087.880	504065.693	1717.967

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA184
Project No.	R033371
Project Name	USGS 3DEP NoCal
State	California
County	Glenn
Quad	Logandale

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4355759.786	566419.463	32.319

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/23/2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	CA185
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Elk Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

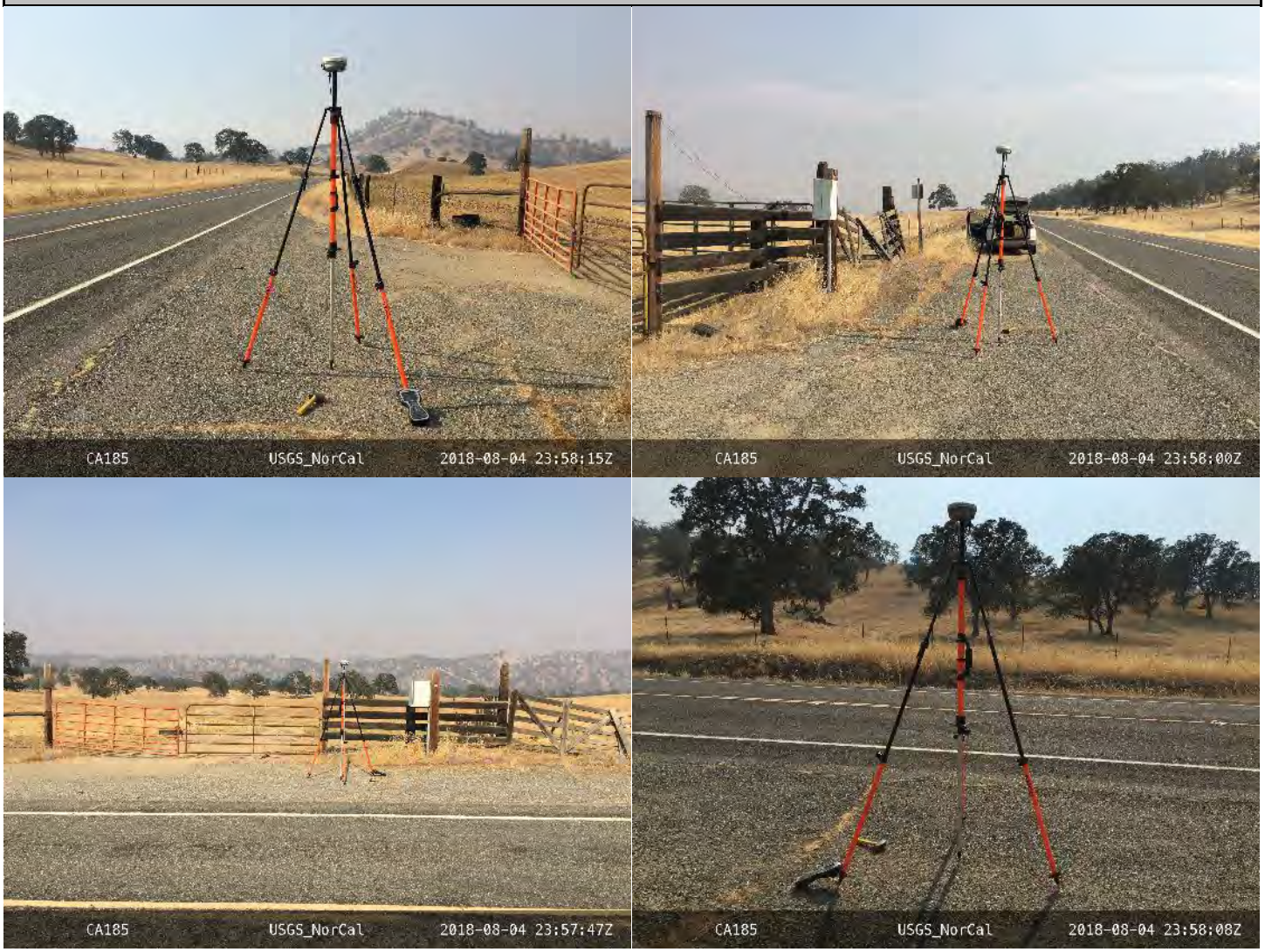
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376539.902	539969.419	272.148

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA186
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Fruto

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4377127.101	553167.057	122.066

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA187
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

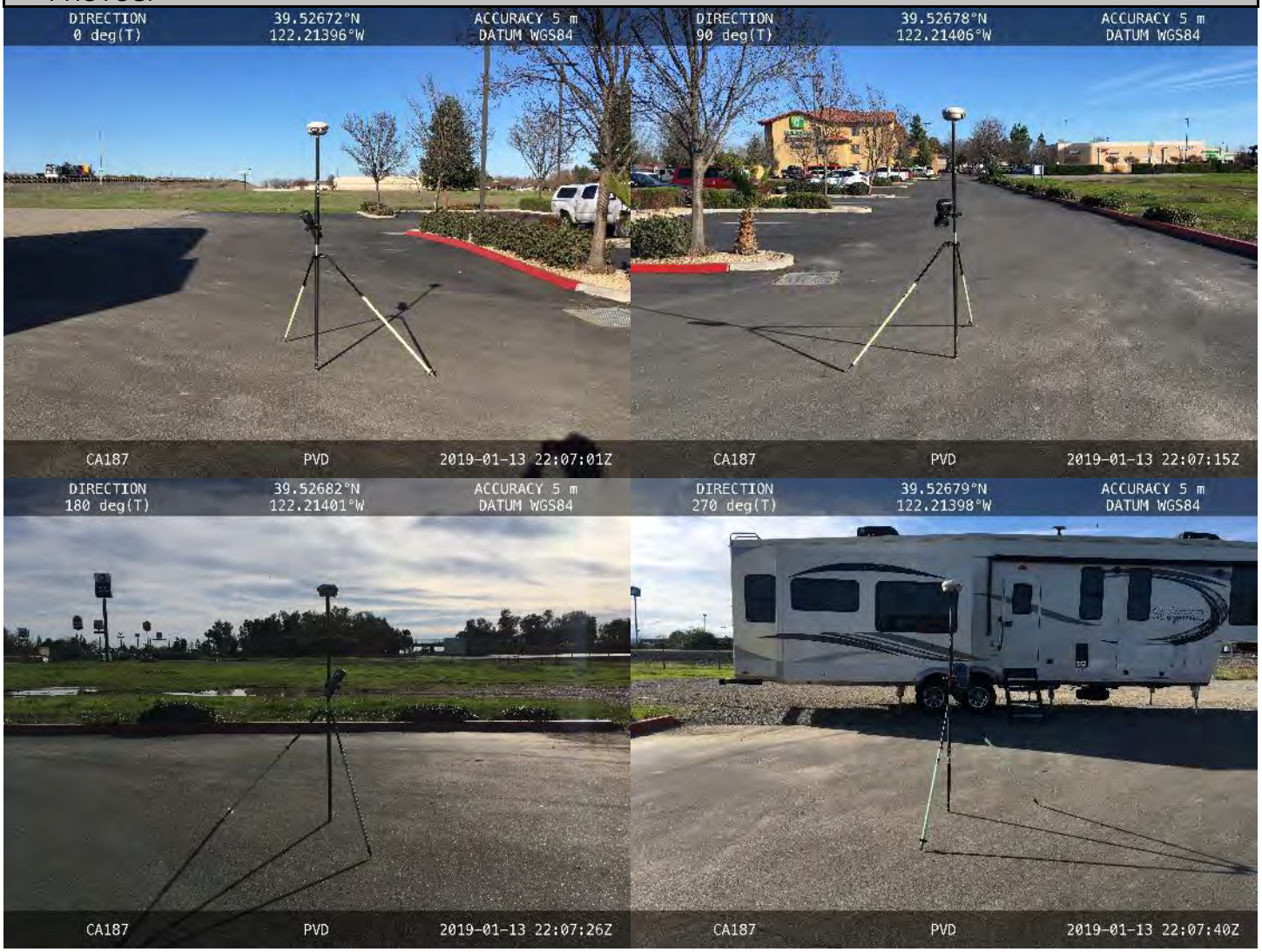
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375530.436	567553.274	42.764

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	CA188
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Glenn

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

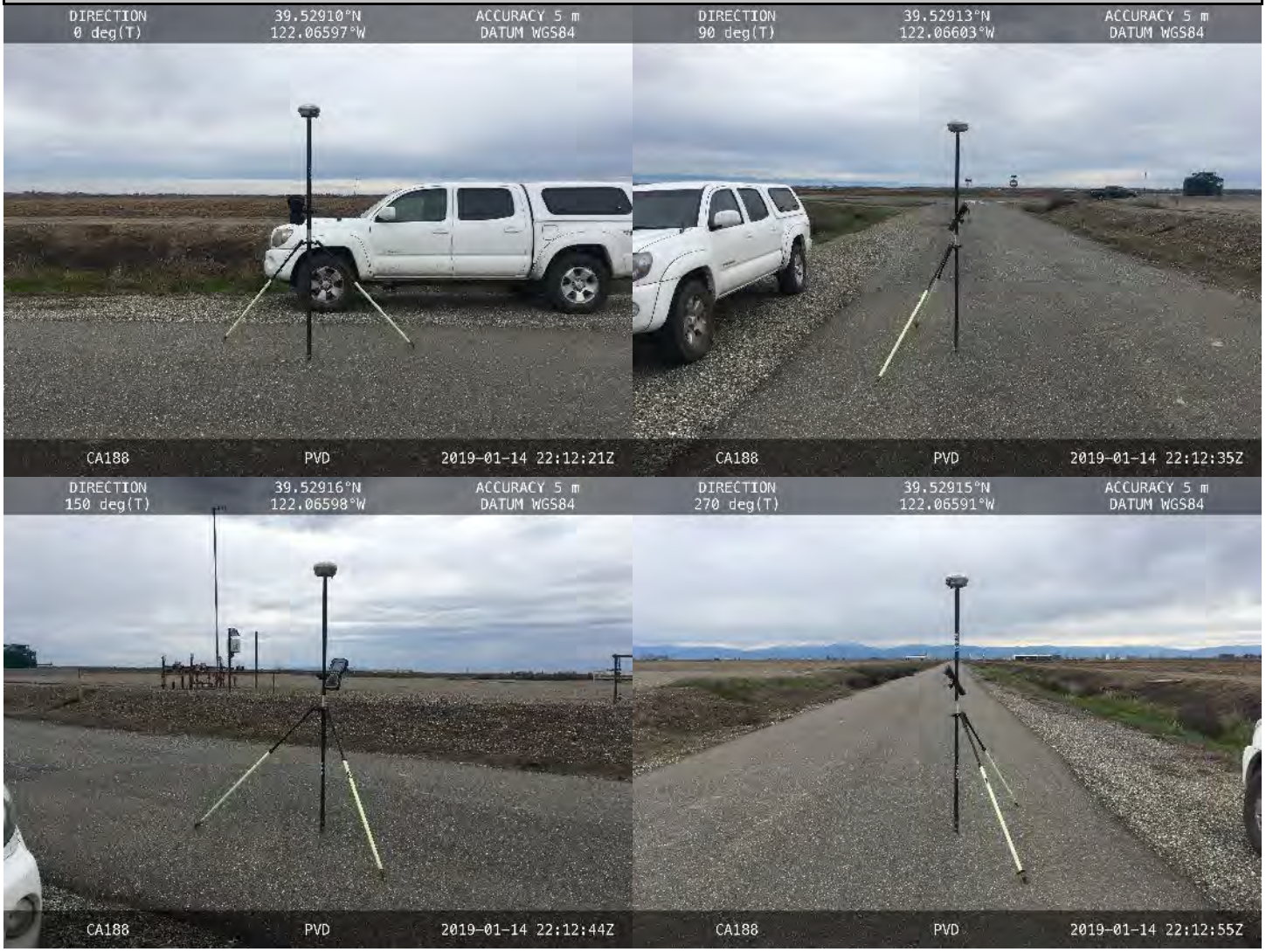
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375912.150	580275.023	29.849

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.022
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA189
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Llano Seco

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375292.237	591961.822	30.389

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.022
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	CA190
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Nelson

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375405.362	601987.803	31.084

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA191
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Shippee

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375669.375	612716.086	38.422

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA192
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

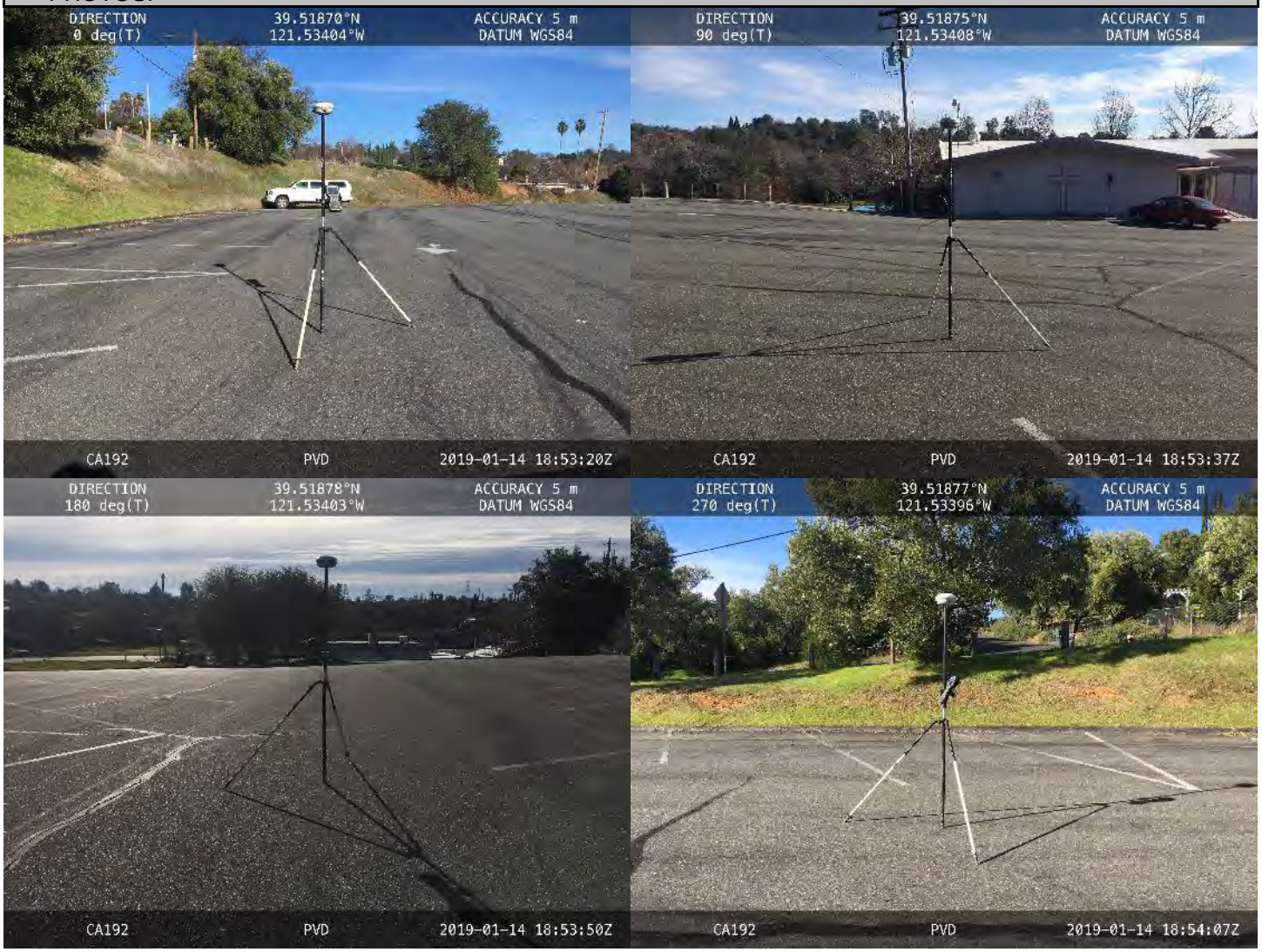
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375371.675	626014.259	101.601

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA193
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville Dam

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4380544.766	634557.429	306.518

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	CA194
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375300.766	652759.239	860.284

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-13-2018
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	CA195
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4378568.150	660830.498	1136.951

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-13-2018
RMSE Hz	0.008
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	CA196
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Pike

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4372791.526	681708.334	1396.539

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	CA197
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Downieville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4378592.677	687219.490	1566.773

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.007
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA198
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sierra City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4382406.288	702019.749	1456.087

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.011
RMSE Z	0.026
GPS Method	Fast Static

PHOTOS:









Point ID	CA199
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Haypress Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385091.956	709794.711	2234.071

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	Fast Static

PHOTOS:









Point ID	CA200
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sierraville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376208.756	735522.770	1905.022

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	RTK

PHOTOS:









Point ID	CA201
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sardine Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4377605.345	745587.172	1855.576

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	CA202
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Nevada
County	Washoe
Quad	Mt Rose NW

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376084.174	758130.251	1532.787

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA203
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Burbeck

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4360275.55	464086.729	495.391

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	FS

PHOTOS:









Point ID	CA204
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359084.162	476515.688	702.557

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA205
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Van Arsdale Reservoir

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359324.600	491556.589	465.332

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.020
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	CA206
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

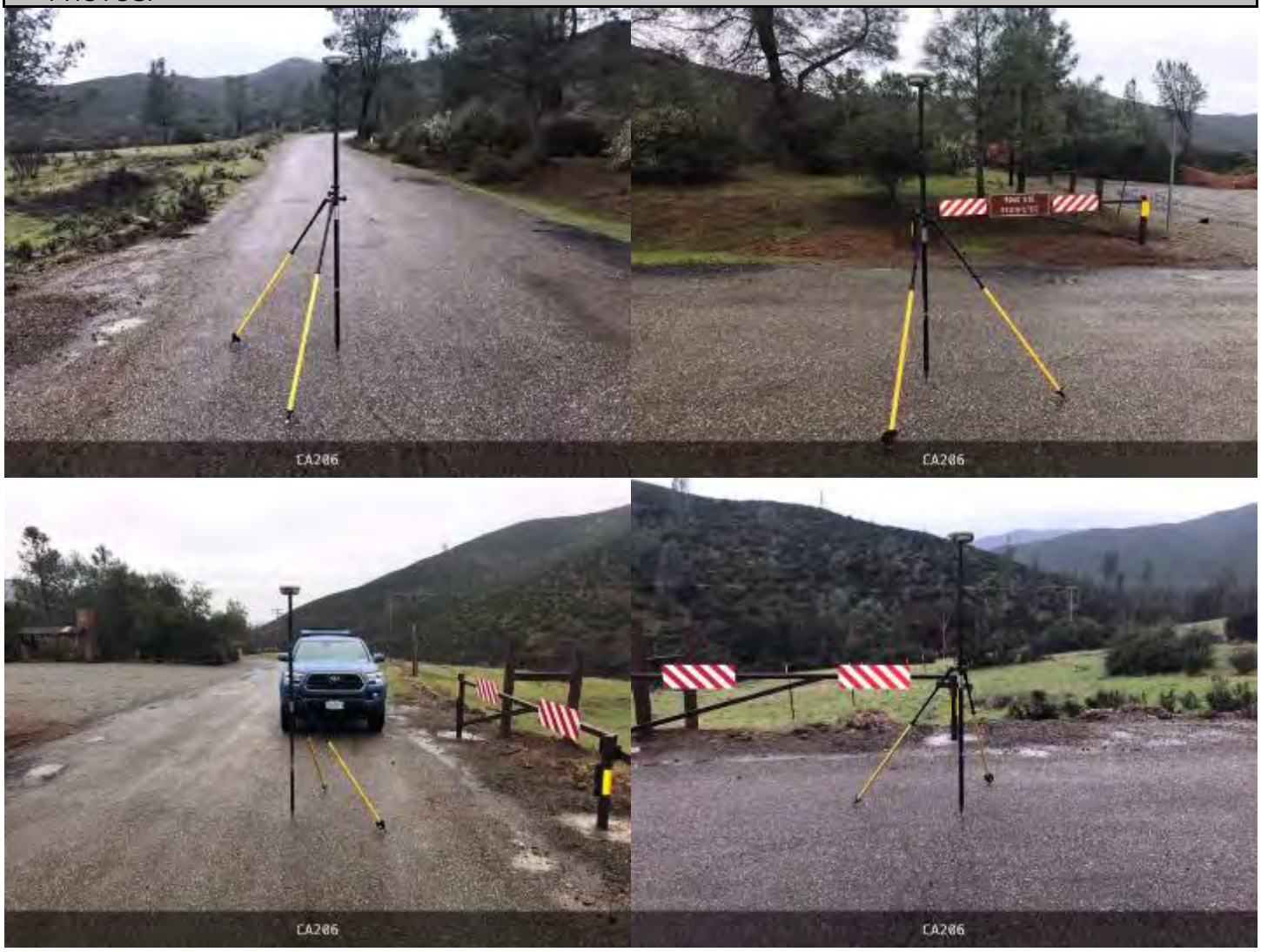
Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357406.416	532579.941	452.913

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.031
RMSE Z	0.033
GPS Method	RTK

PHOTOS:



Point ID	CA207
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358589.122	539092.279	358.833

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.020
RMSE Z	0.025
GPS Method	RTK

PHOTOS:



Point ID	CA208
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Sites

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4351662.368	557032.801	88.941

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/23/2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA209
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4356602.906	576132.710	21.032

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA210
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357382.320	566376.915	31.009

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTN

PHOTOS:



Point ID	CA211
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Sanborn Slough

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

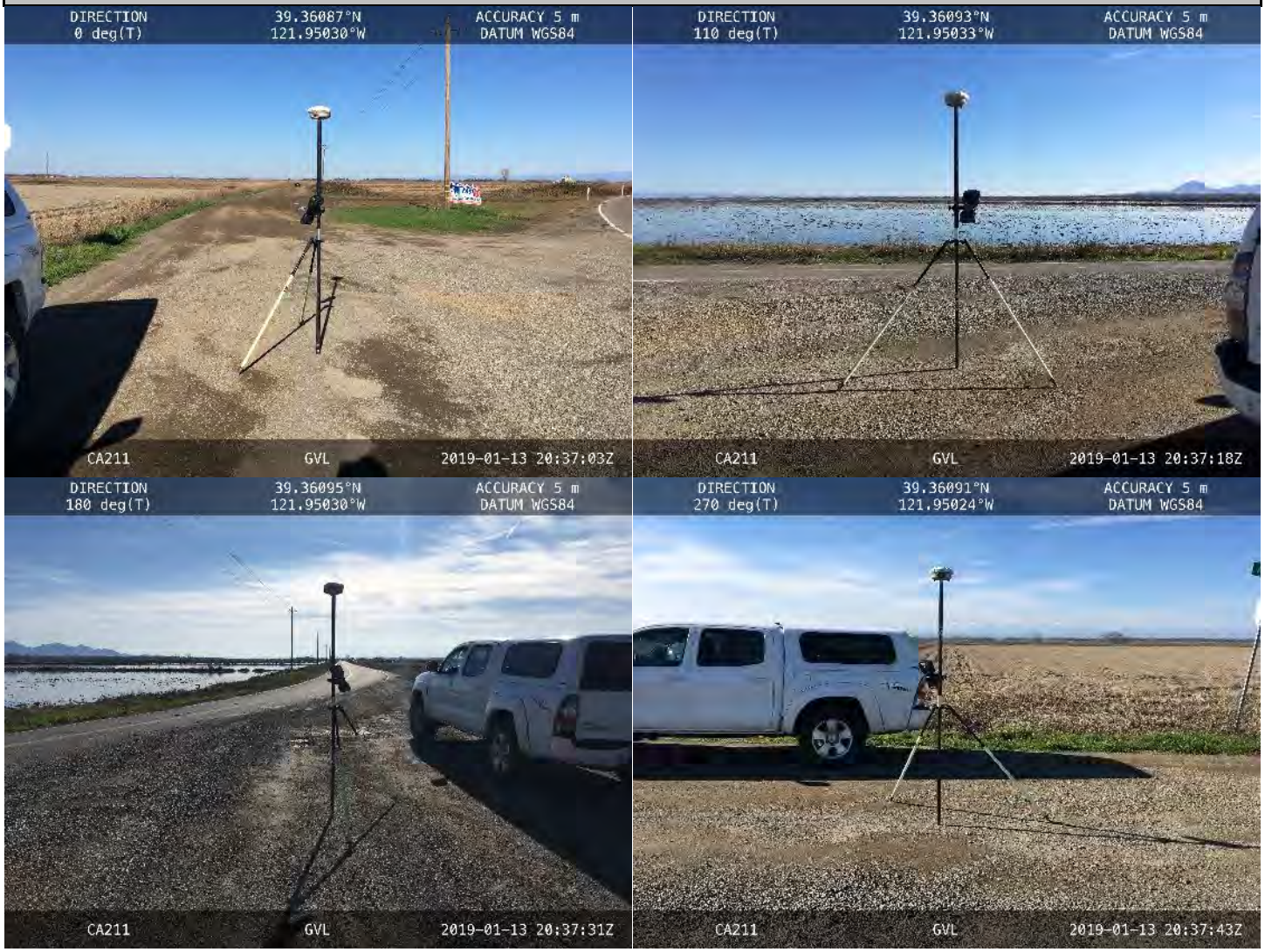
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357350.128	590436.987	21.162

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA212
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Pennington

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357643.196	601258.349	22.009

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA213
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Gridley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358220.248	613227.623	29.259

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	BE214
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Honcut

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358738.274	625796.882	34.071

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	CA215
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Bangor

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4361118.064	637309.451	230.062

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	CA216
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Oregon House

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359123.168	649594.018	492.401

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA217
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Nevada City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358761.748	661889.740	577.636

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.026
RMSE Z	0.034
GPS Method	RTK

PHOTOS:



Point ID	CA218
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	North Bloomfield

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358821.303	672771.419	872.076

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA219
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Graniteville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4362371.840	694092.622	1485.124

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.011
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	CA220
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Blue Canyon

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4355212.442	703925.373	1536.955

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.016
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA221
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Cisco Grove

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357790.045	715080.393	2174.090

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.018
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	CA222
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Boca

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4361728.176	736824.659	2069.426

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA223
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Boca

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4364642.998	756078.050	1627.386

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA224
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4352863.391	540210.694	381.821

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	CA225
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Leesville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344316.904	545792.062	402.884

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	RTK

PHOTOS:



Point ID	CA226
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Manor Slough

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

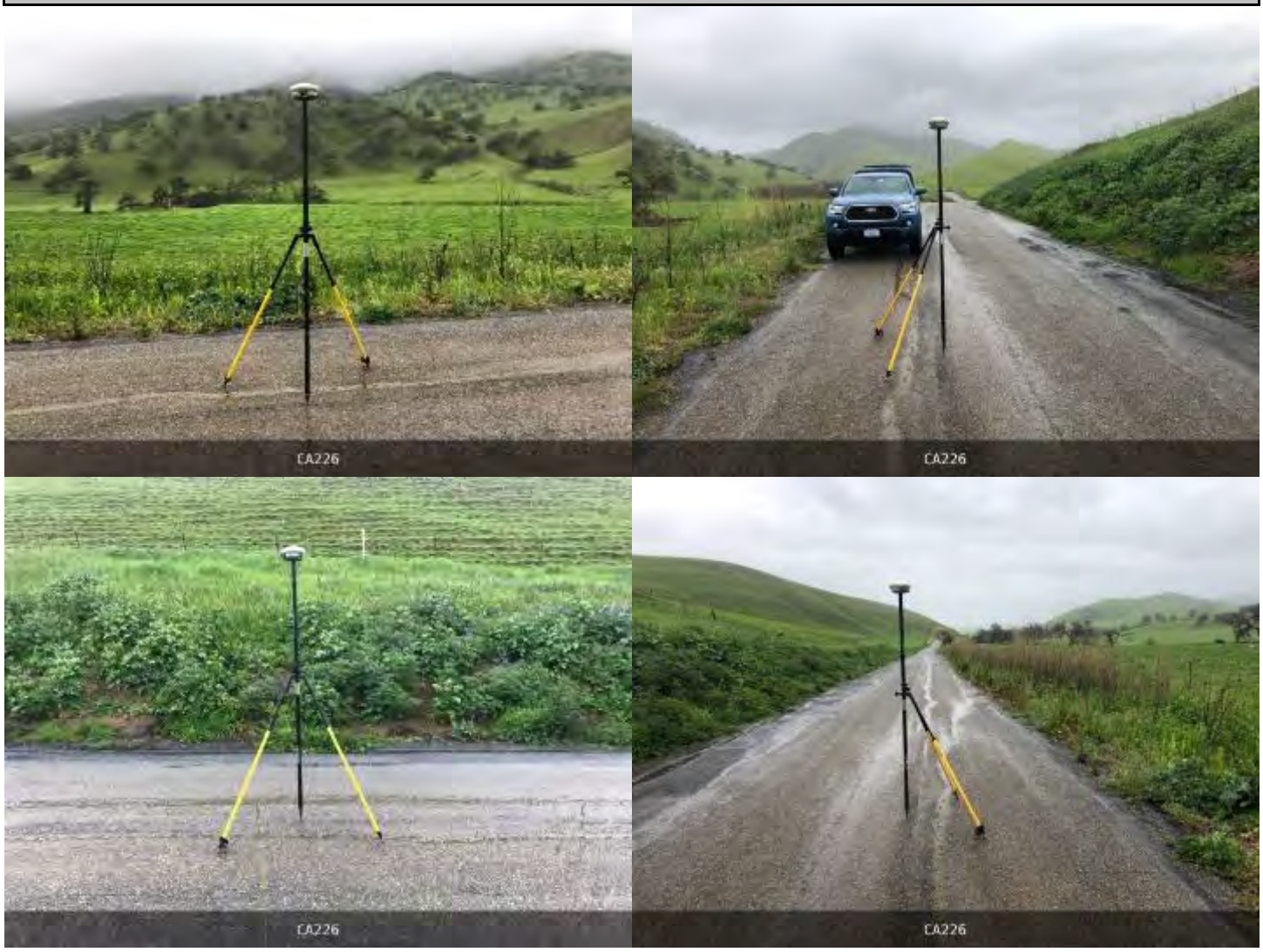
Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4332105.016	559158.479	94.840

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	CA227
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4343712.922	565044.177	36.949

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA228
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

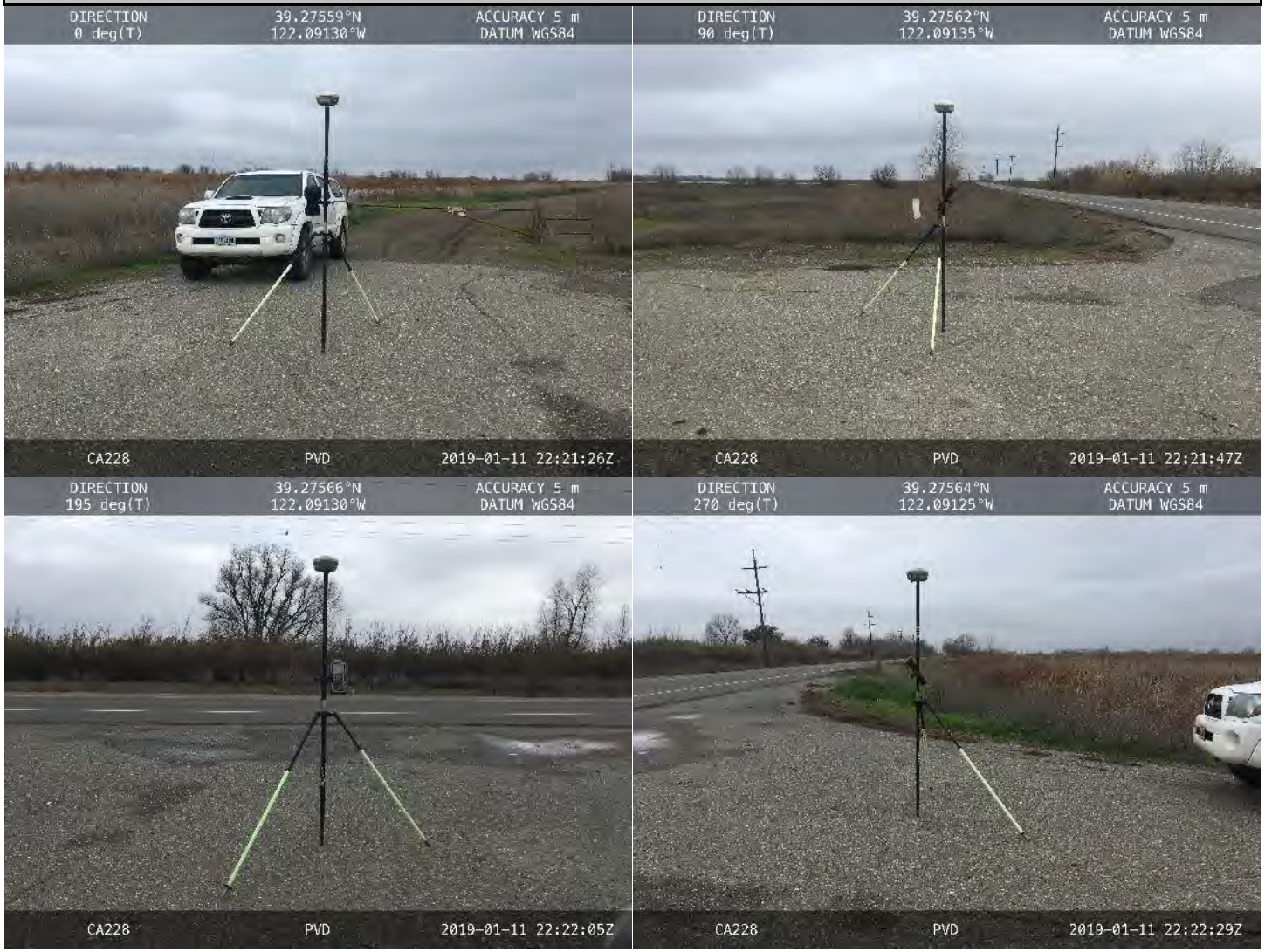
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4347755.897	578381.879	18.454

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA229
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Meridian

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4342989.078	586643.348	22.9240

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.023
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	CA230
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Meridian

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344867.131	595699.082	20.538

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	CA231
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4341632.217	610657.465	20.232

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA232
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344633.358	617327.307	23.117

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA233
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Yuba City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

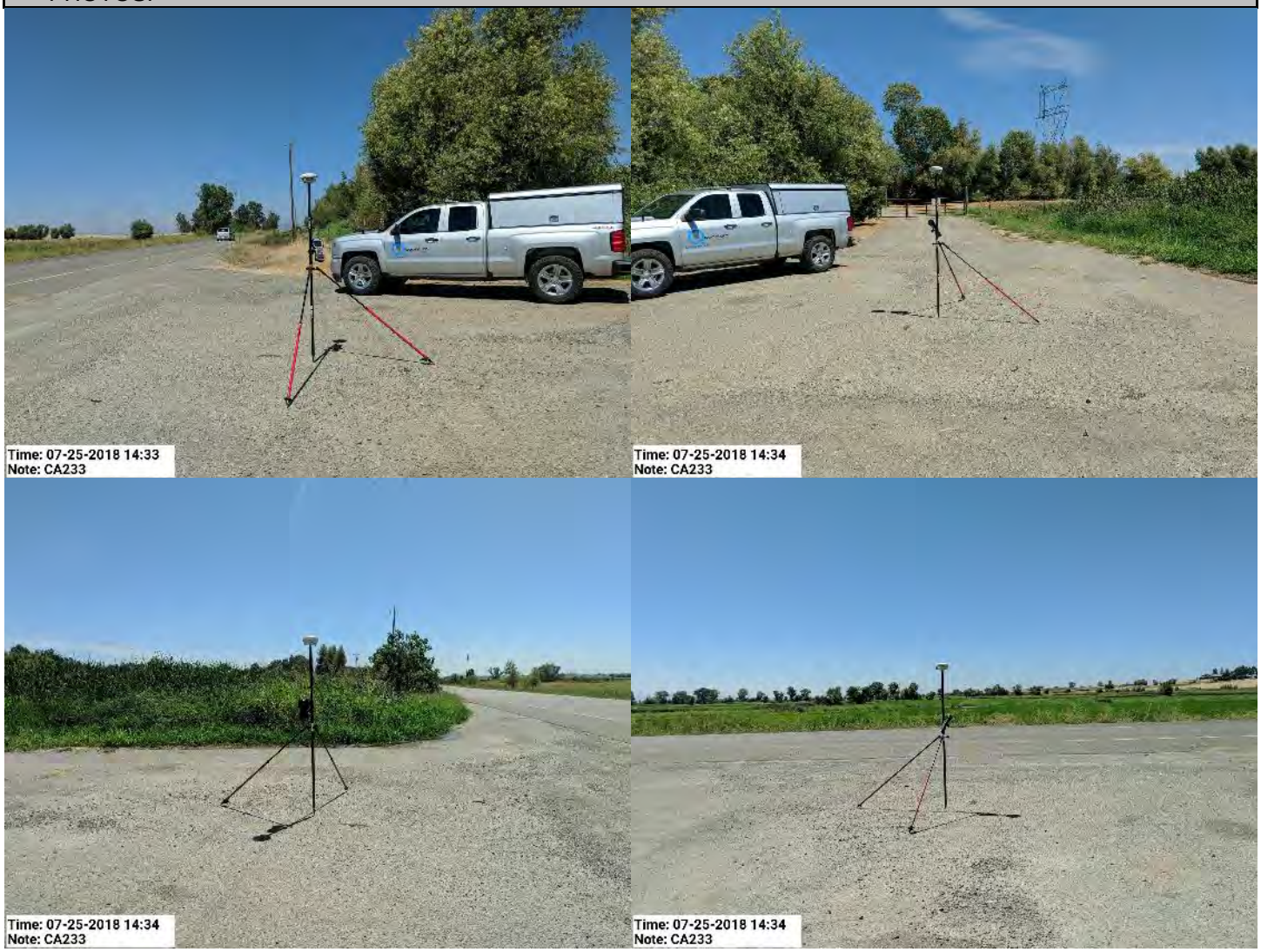
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4345805.970	629730.357	33.075

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.012
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	CA234
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Smartsville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344746.553	640805.883	82.866

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.019
RMSE Z	0.025
GPS Method	RTK

PHOTOS:

Unfortunately, photos do not exist for this point but here is the general location.







Point ID	CA235
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Rough and Ready

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344498.809	653848.986	370.440

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	CA236
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Grass Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

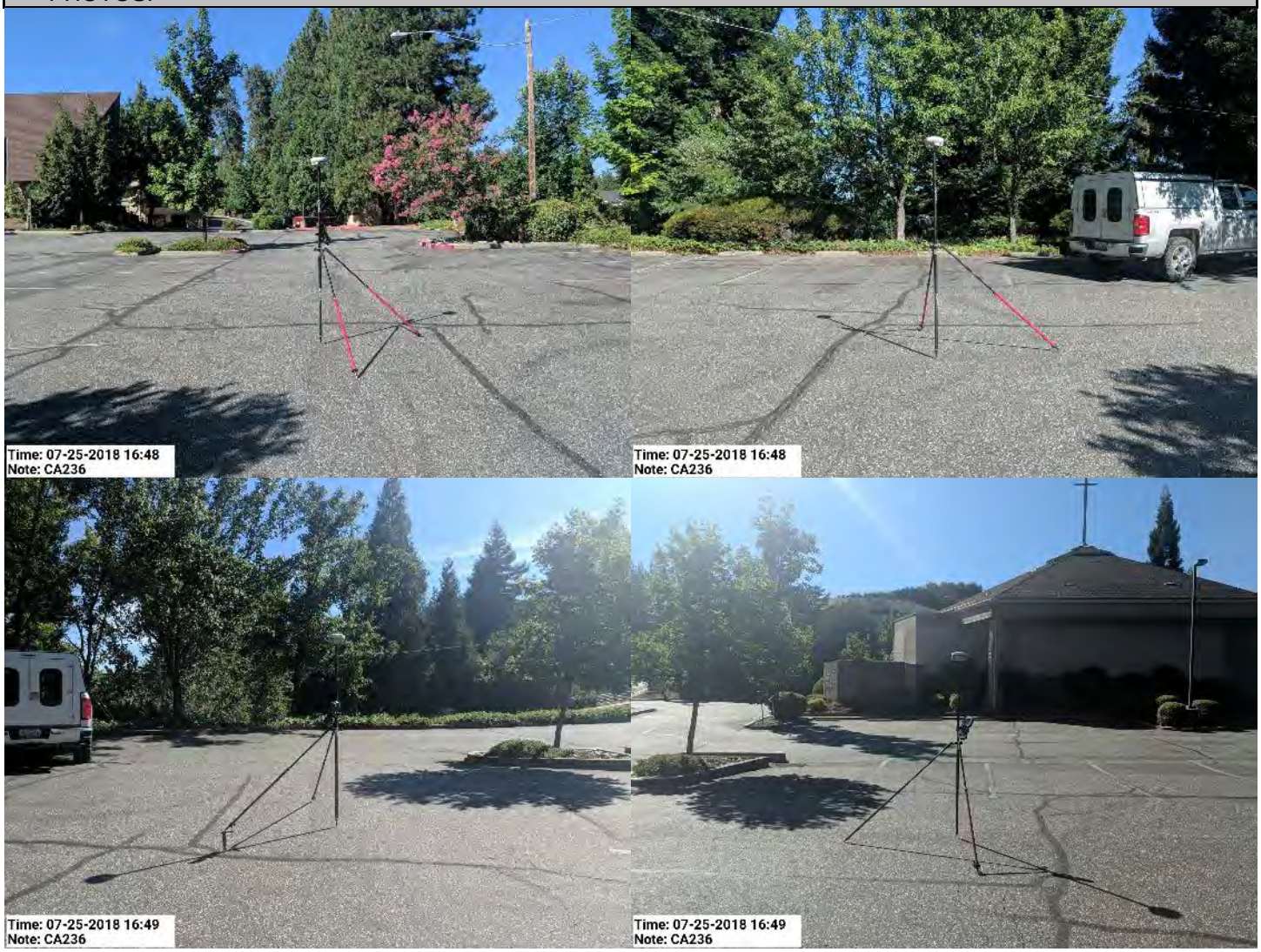
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4343204.356	666588.720	778.291

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Point ID	CA237
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Dutch Flat

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4346121.702	685608.389	1251.808

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.020
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	CA238
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Dutch Flat

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4340748.181	692453.378	1139.745

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.015
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	CA239
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4339412.527	705634.261	1642.509

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA240
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4338963.784	715293.207	1961.058

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:









Point ID	CA241
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Tahoe City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4341268.341	741976.450	1899.001

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.018
RMSE Z	0.035
GPS Method	RTK

PHOTOS:









Point ID	CA242
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Leesville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

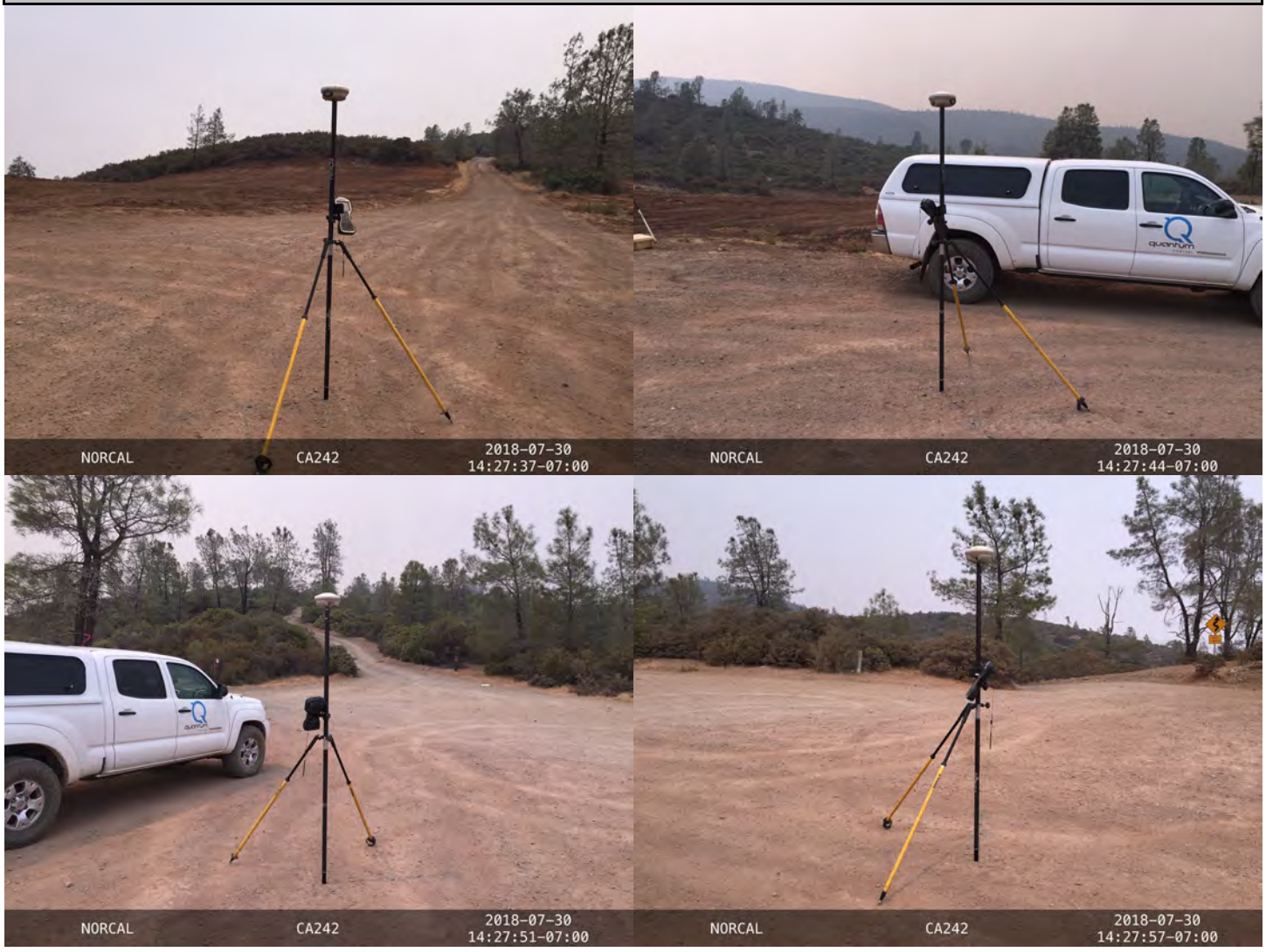
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334439.310	544956.936	664.050

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-30-2018
RMSE Hz	0.025
RMSE Z	0.036
GPS Method	RTK

PHOTOS:



Point ID	CA243
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Manor Slough

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333586.876	555801.563	154.691

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	2.0 Meters

Date (MM-DD-YYYY)	07-30-2018
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	STATIC

PHOTOS:



Point ID	CA244
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

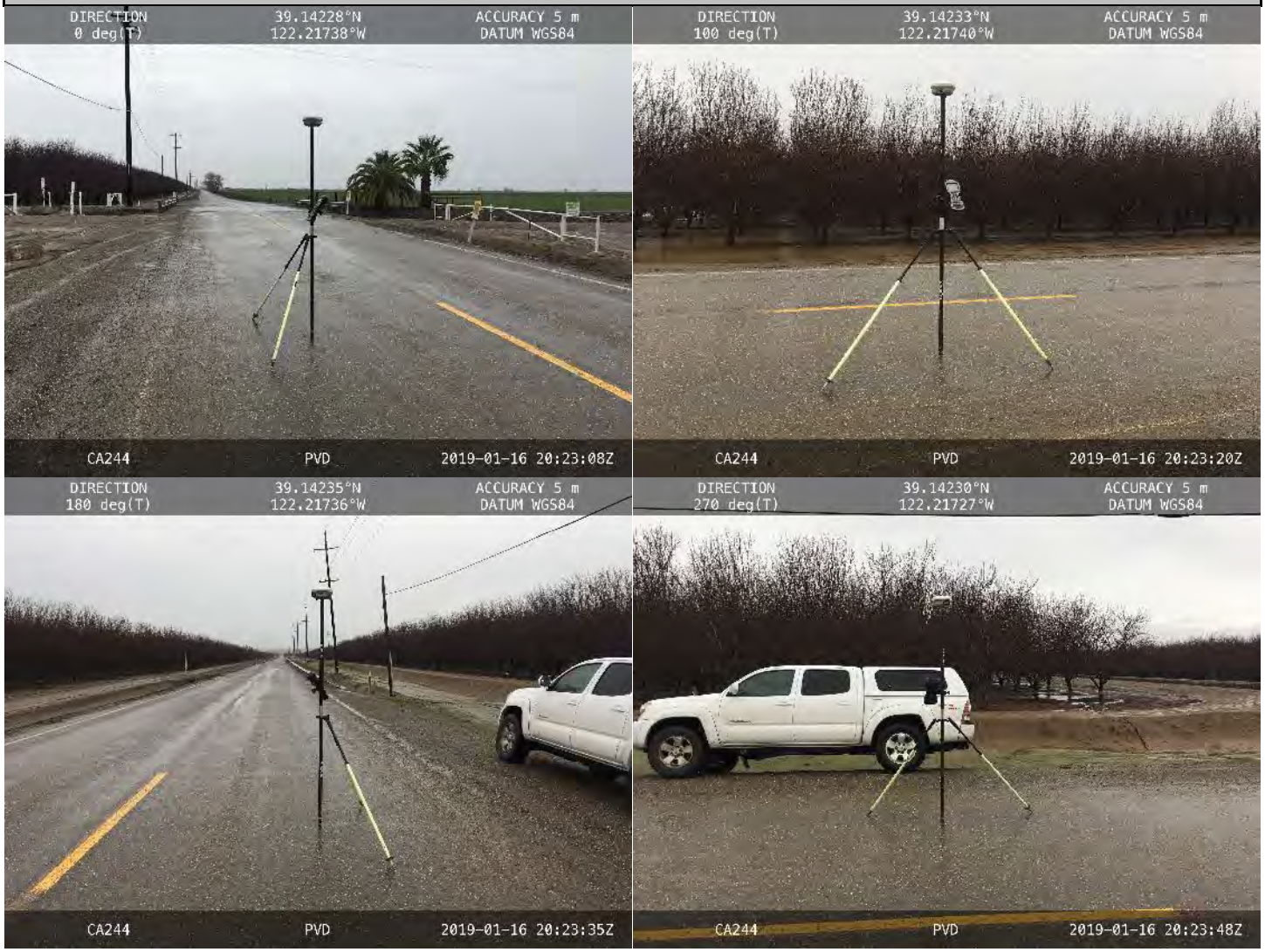
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4332810.369	567641.487	37.044

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.027
GPS Method	RTN

PHOTOS:



Point ID	CA245
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Colusa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333271.657	579572.989	18.432

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	CA246
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Meridian

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4332590.989	590935.546	15.815

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	CA247
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter Buttes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331751.693	604153.425	17.850

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.020
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA248
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

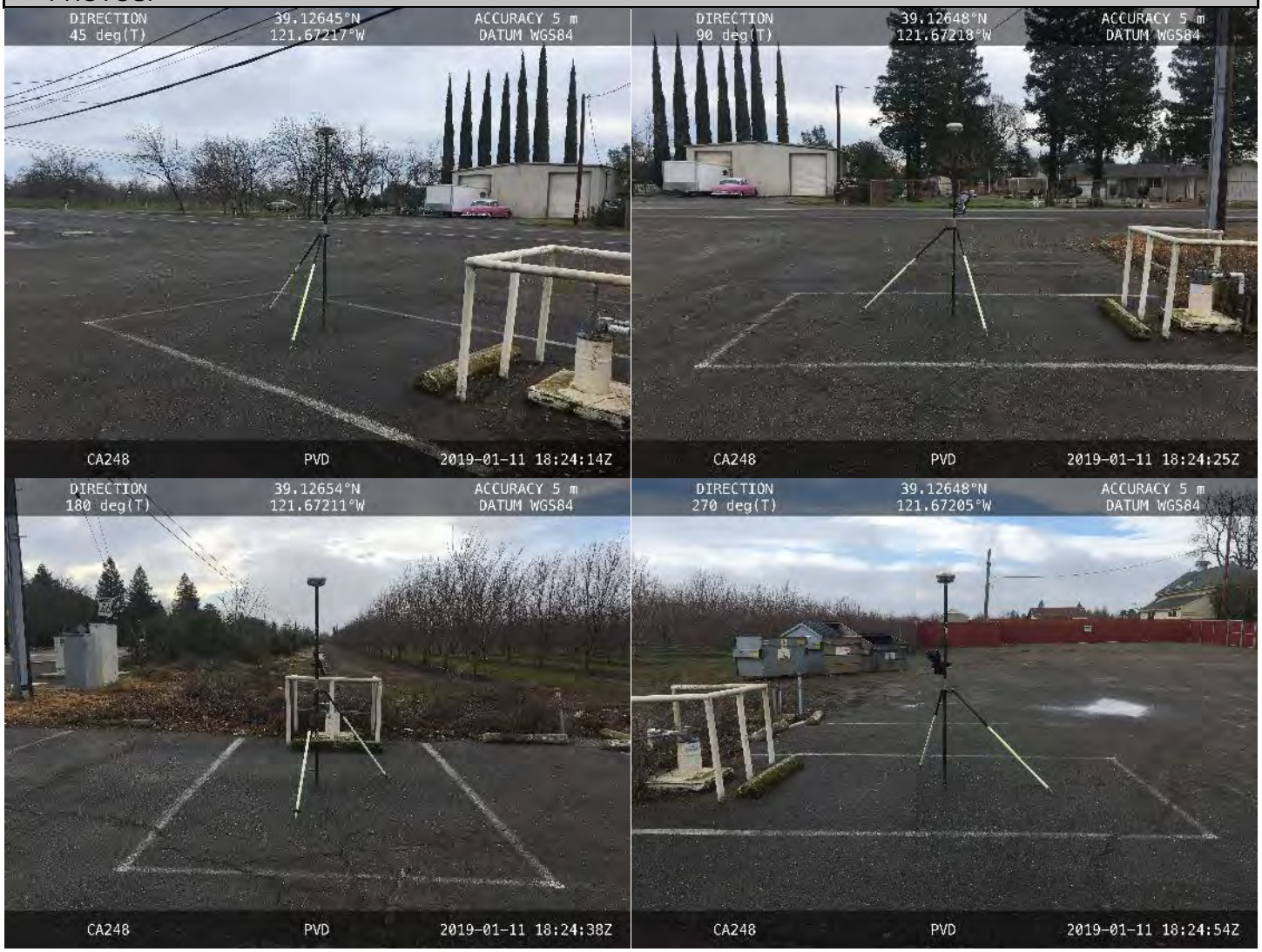
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331654.453	614782.331	15.792

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.022
RMSE Z	0.030
GPS Method	RTN

PHOTOS:



Point ID	CA249
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Yuba City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4336020.882	624147.707	20.928

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	CA250
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Browns Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4336561.478	634445.608	33.609

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTN

PHOTOS:



Point ID	CA251
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Rough And Ready

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4335956.649	654864.261	446.411

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	CA252
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Lake Combie

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331080.963	667389.99	672.327

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA253
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Colfax

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4330055.401	679529.900	358.502

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.018
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	CA254
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Dutch Flat

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333572.857	690979.779	1117.039

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:









Point ID	CA255
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Westville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334754.457	703209.533	1510.958

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.025
RMSE Z	0.036
GPS Method	RTK

PHOTOS:









Point ID	CA256
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334842.208	715075.256	1962.722

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:









Point ID	CA257
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Bunker Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333586.087	722546.400	1606.906

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	CA258
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Tahoe City

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4336362.098	739511.611	2177.473

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA259
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Loon Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4316810.546	731604.786	1960.872

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.020
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA260
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Devil Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4308993.407	714022.721	1451.160

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA261
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Devil Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4309098.907	707928.030	1308.639

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	2.25 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.016
RMSE Z	0.029
GPS Method	R8 Static

PHOTOS:



Point ID	CA262
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Tunnel Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4312998.587	697428.693	1044.171

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	2.25 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	CA263
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Georgetown

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4309184.152	688106.922	829.692

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	2.25 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.023
RMSE Z	0.034
GPS Method	RTK

PHOTOS:



Point ID	CA264
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Auburn

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4306579.57	673343.488	462.024

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA265
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Folsom

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4285601.169	659344.757	107.041

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

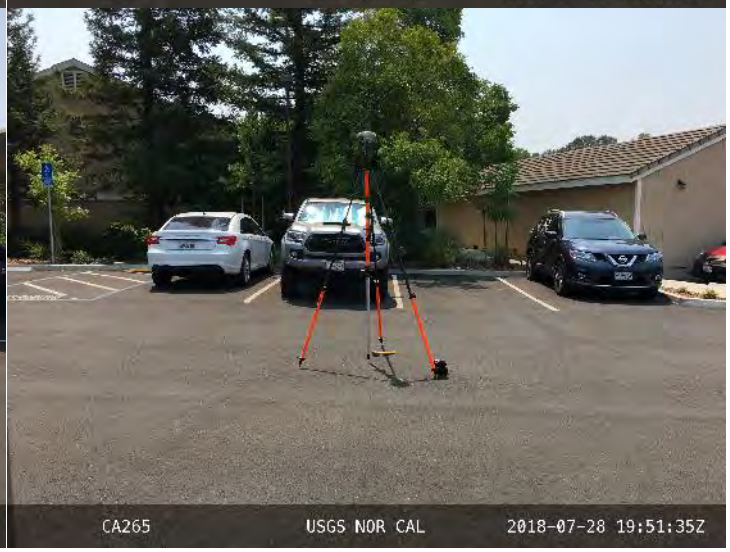
Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA266
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Auburn

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4308787.921	662976.316	

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA267
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Lincoln

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4310119.727	650209.988	67.675

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.025
RMSE Z	0.027
GPS Method	RTN

PHOTOS:



Point ID	CA268
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Sheridan

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4311410.977	637475.653	26.16

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.020
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA269
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Nicolaus

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4312616.058	626115.37	12.875

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA270
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter Causeway

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4314368.844	615048.188	9.946

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	CA271
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Kirkville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

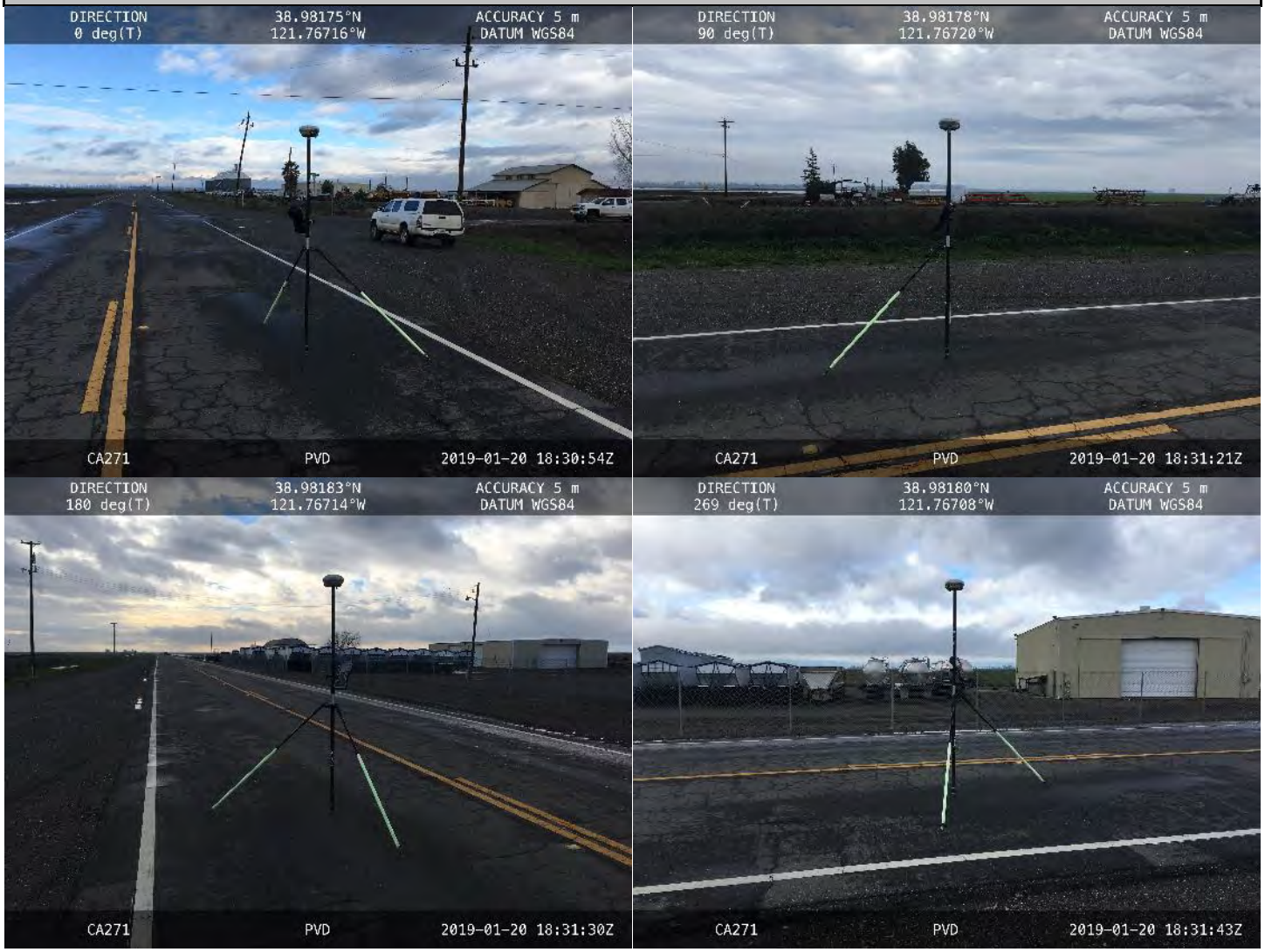
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4315475.424	606786.428	9.368

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA272
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Arbuckle

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4317719.447	586014.305	21.114

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.014
RMSE Z	00017
GPS Method	RTN

PHOTOS:



Point ID	CA273
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Arbuckle

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4319837.345	580921.972	39.447

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA274
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Cortina Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4319799.015	574187.750	88.228

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	CA275
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Glascock Mtn

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4316738.435	555933.149	324.458

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.007
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	CA276
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lake
Quad	Wilbur Springs

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4317926.421	550675.942	529.348

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	FS

PHOTOS:



Point ID	CA277
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Rocklin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

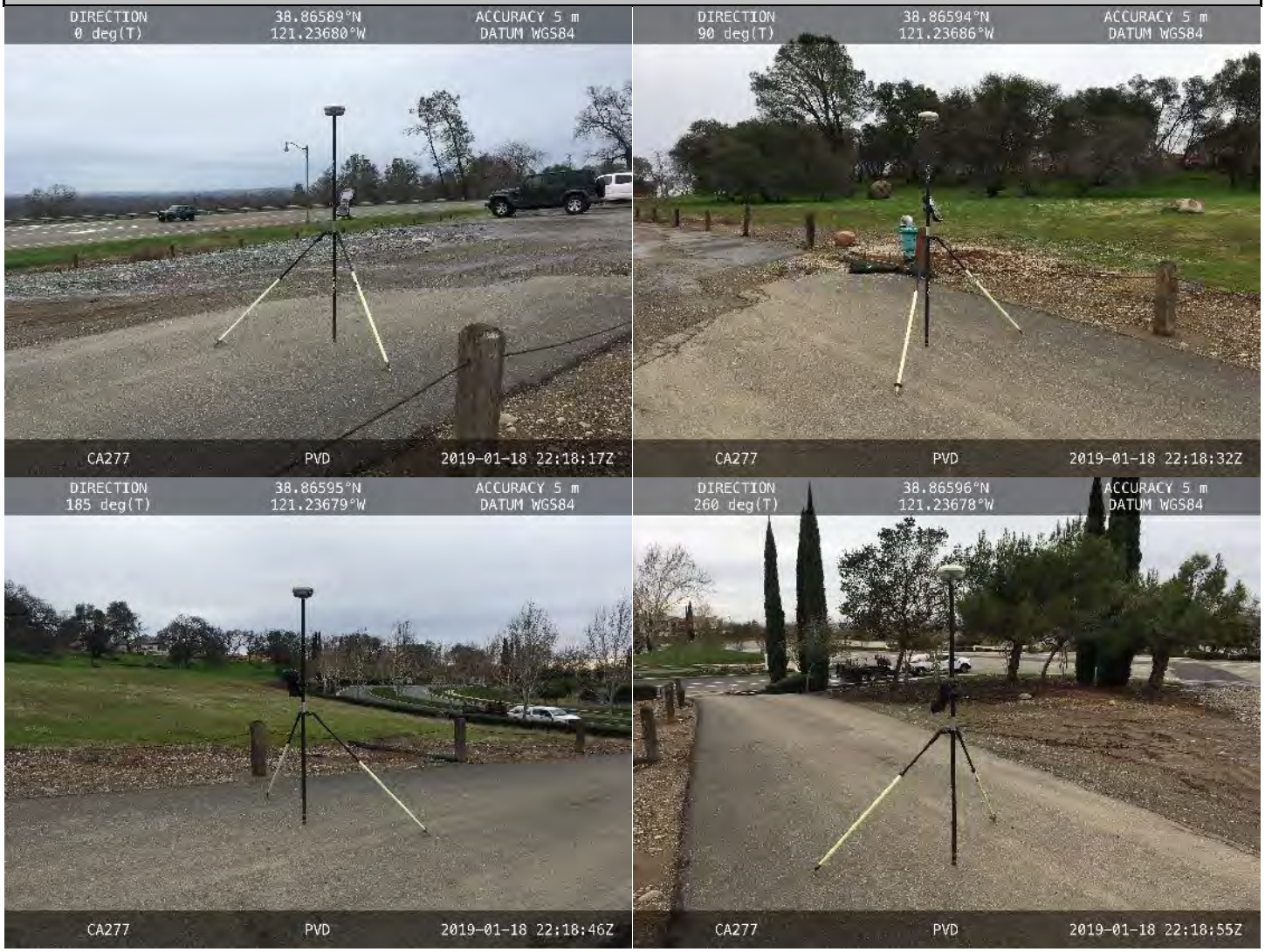
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4303375.039	652972.485	160.426

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA278
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Pleasant Grove

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4303668.622	640795.094	31.27

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA279
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Verona

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

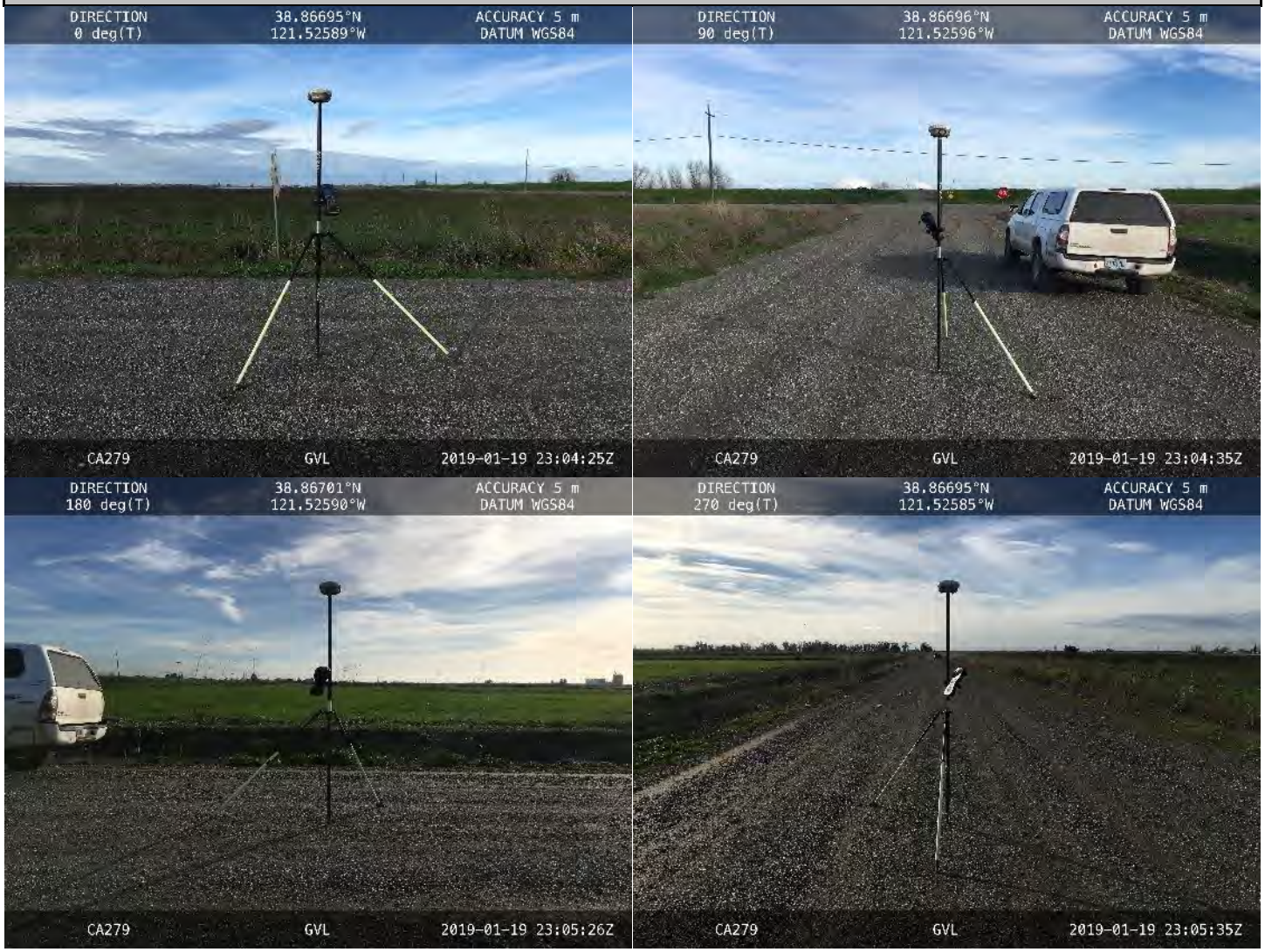
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4303043.652	627889.793	11.907

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA280
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Knights Landing

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

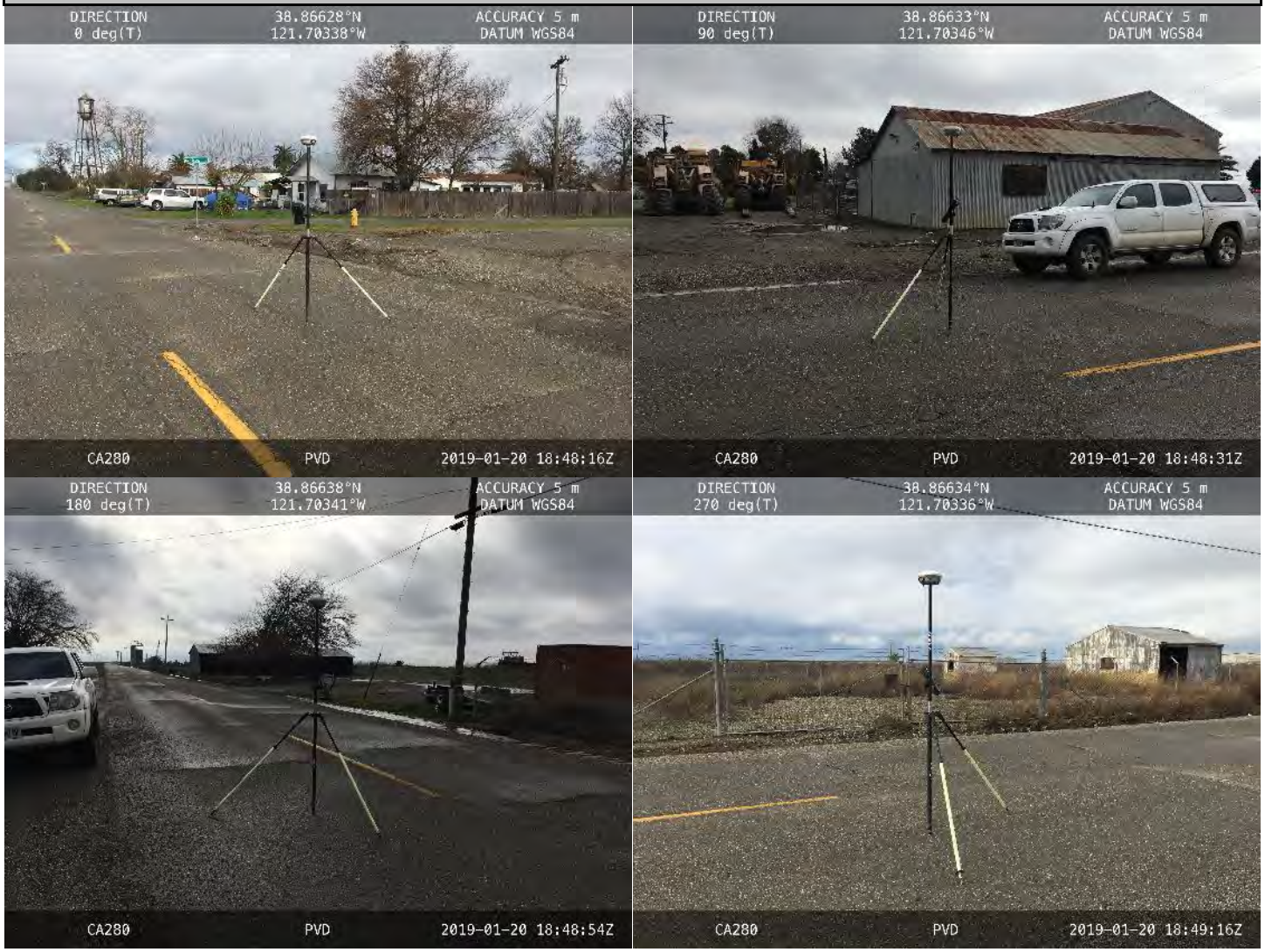
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4302736.190	612488.684	6.043

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	CA281
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Eldorado Bend

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

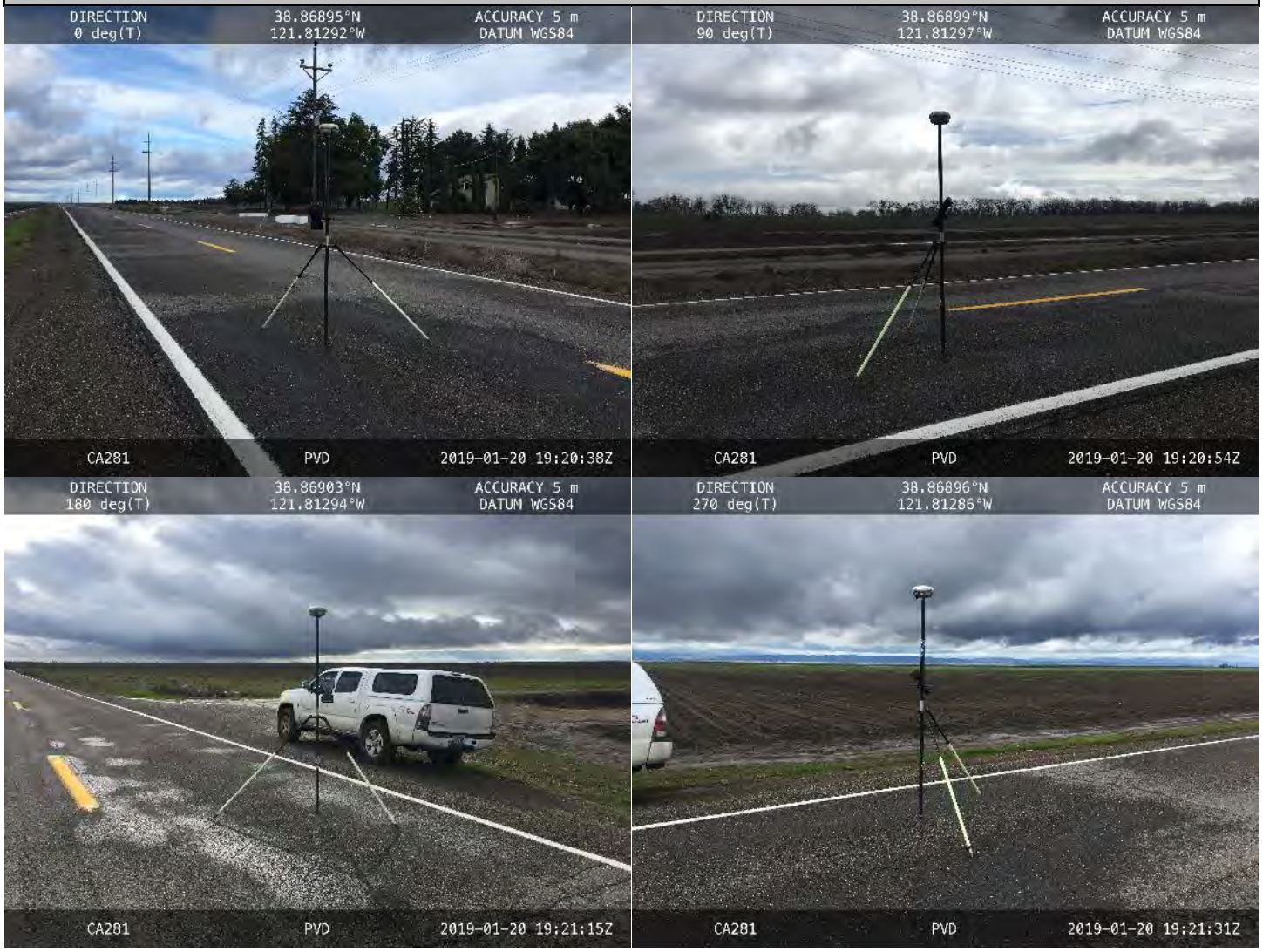
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4302903.858	602983.307	9.265

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA282
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Dunnigan

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4304098.717	589519.366	19.401

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA283
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Guinda

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
US Survey Feet

Northing	Easting	Elevation
4301262.523	568228.246	121.456

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/4/2019
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	CA284
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Glascock Mtn

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4308439.081	558264.717	193.347

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.011
RMSE Z	0.016
GPS Method	FS

PHOTOS:



Point ID	CA285
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Roseville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290943.455	648804.412	49.896

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.013
RMSE Z	0.012
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA286
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Pleasant Grove

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

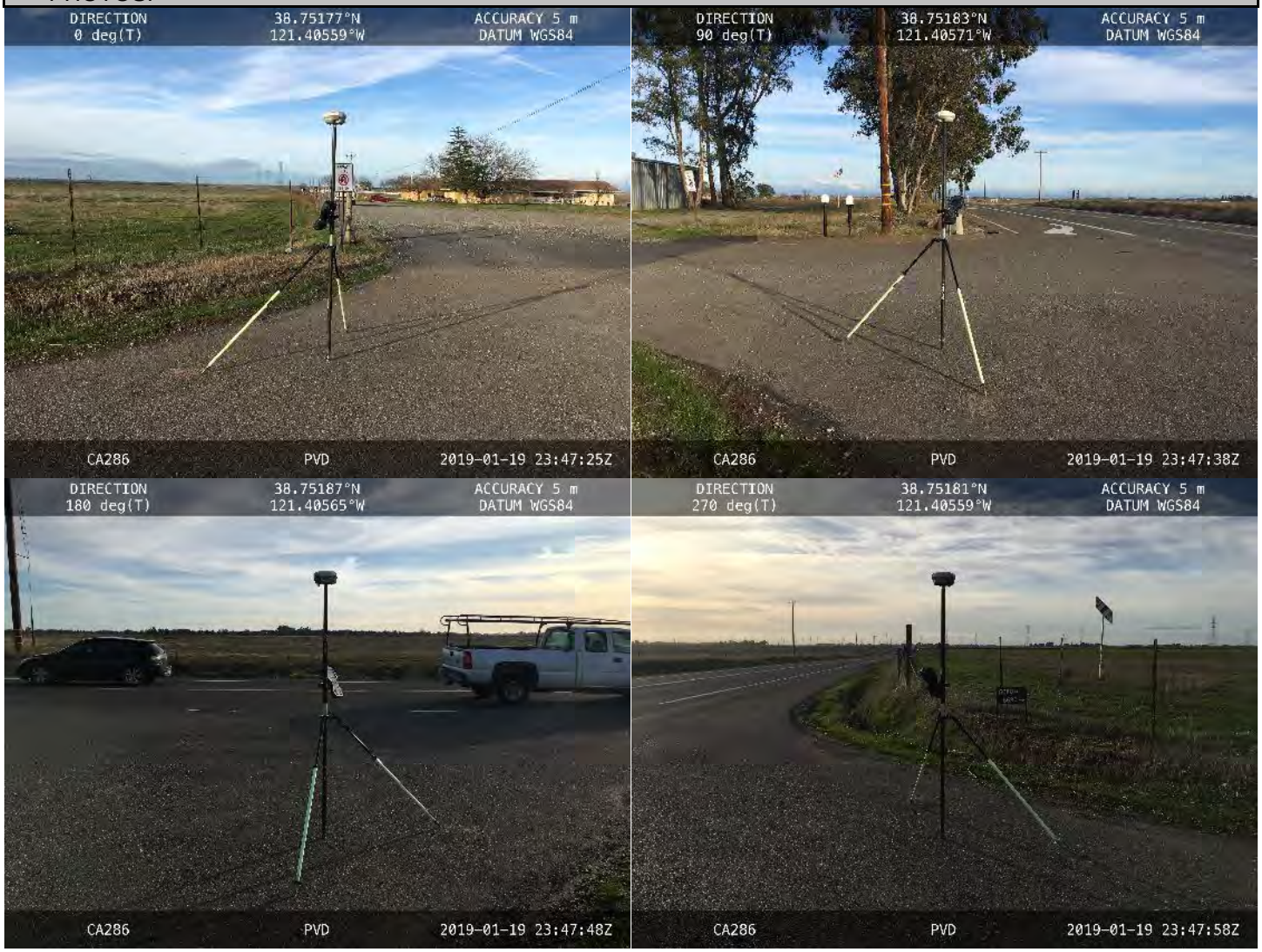
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290444.893	638545.467	30.391

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.018
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	CA287
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Verona

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

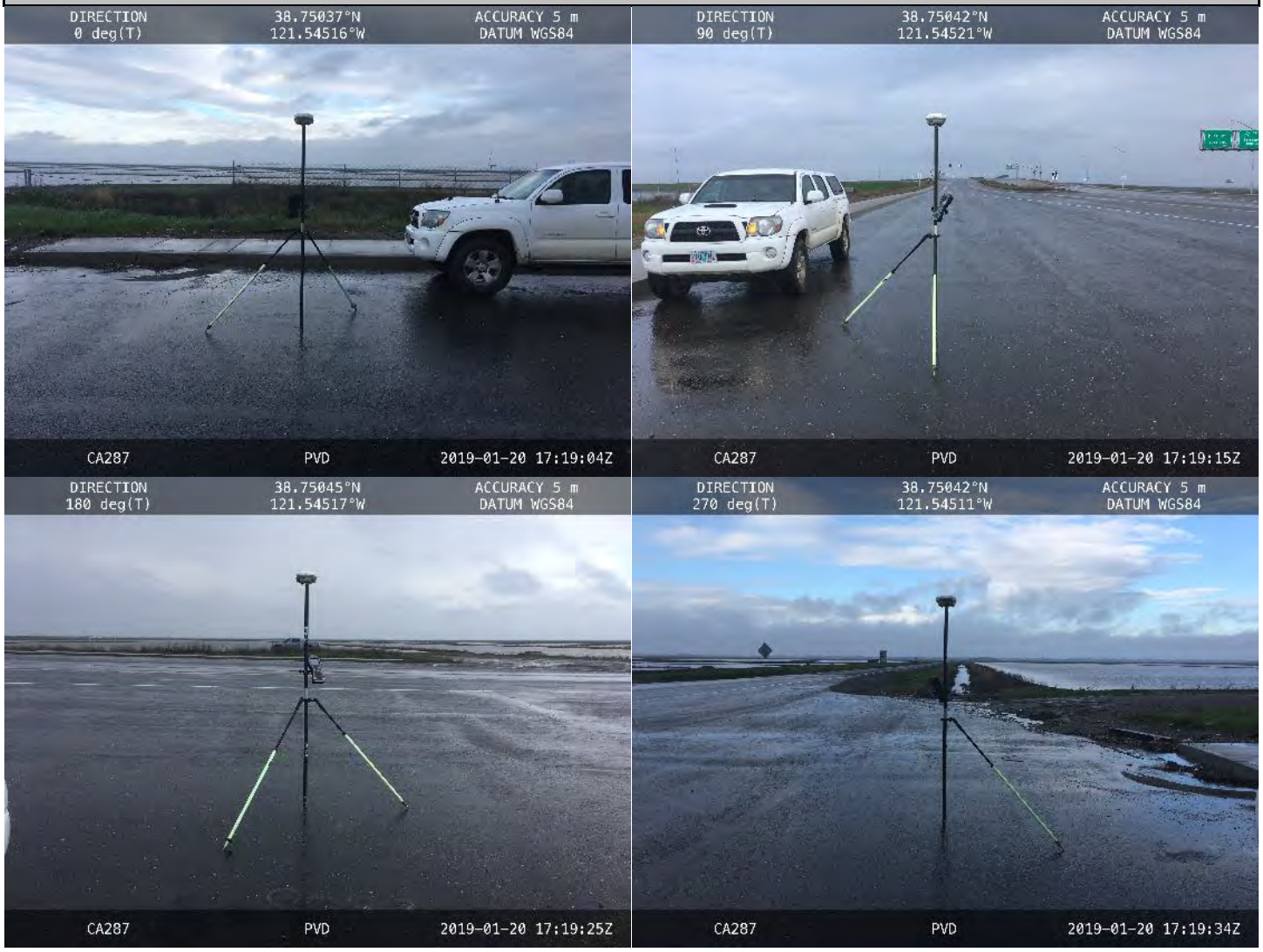
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290084.679	626424.059	6.229

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA288
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Grays Bend

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289691.666	613690.342	11.542

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA289
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Eldorado Bend

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290783.064	600735.319	19.305

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA290
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Zamora

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289694.716	590716.508	62.921

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	CA291
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Guinda

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289820.757	573604.530	91.680

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA292
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Salt Canyon

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4325126.993	556539.639	246.262

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.011
RMSE Z	0.016
GPS Method	FS

PHOTOS:









Point ID	CA293
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lake
Quad	Detert Reservoir

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4286141.464	539780.720	334.257

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA294
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Carmichael

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4271523.712	652074.660	46.067

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA295
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Sacramento East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4265323.743	641219.455	14.526

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA296
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Sacramento West

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4264448.851	630348.049	5.487

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	CA297
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Taylor Monument

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4279509.162	628193.991	7.183

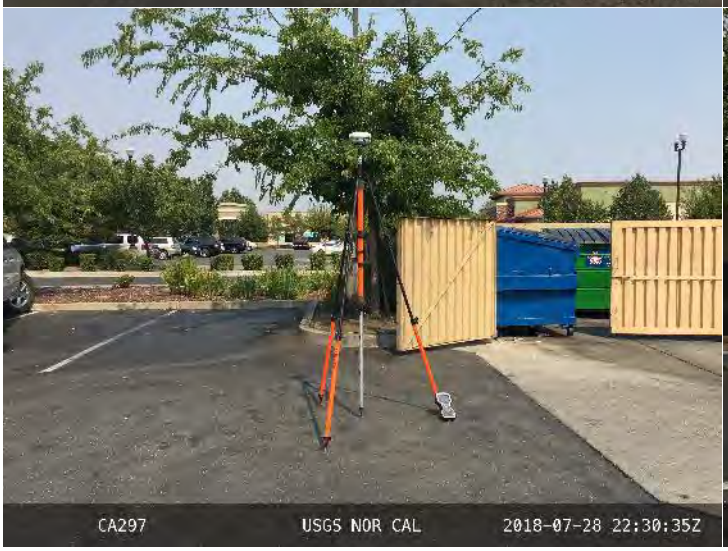
Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA298
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Grays Bend

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

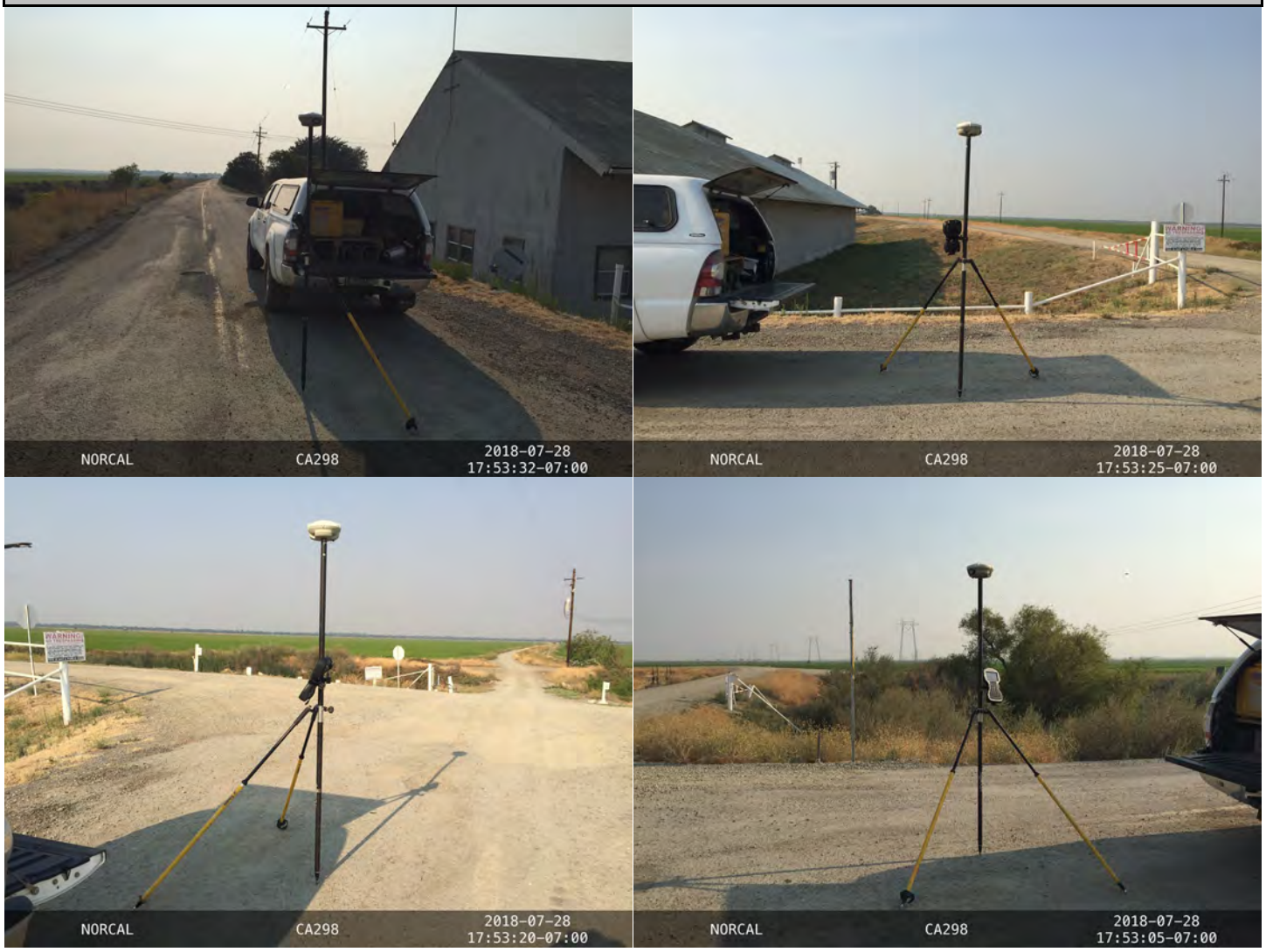
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4278457.512	616047.430	10.983

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	CA299
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Woodland

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

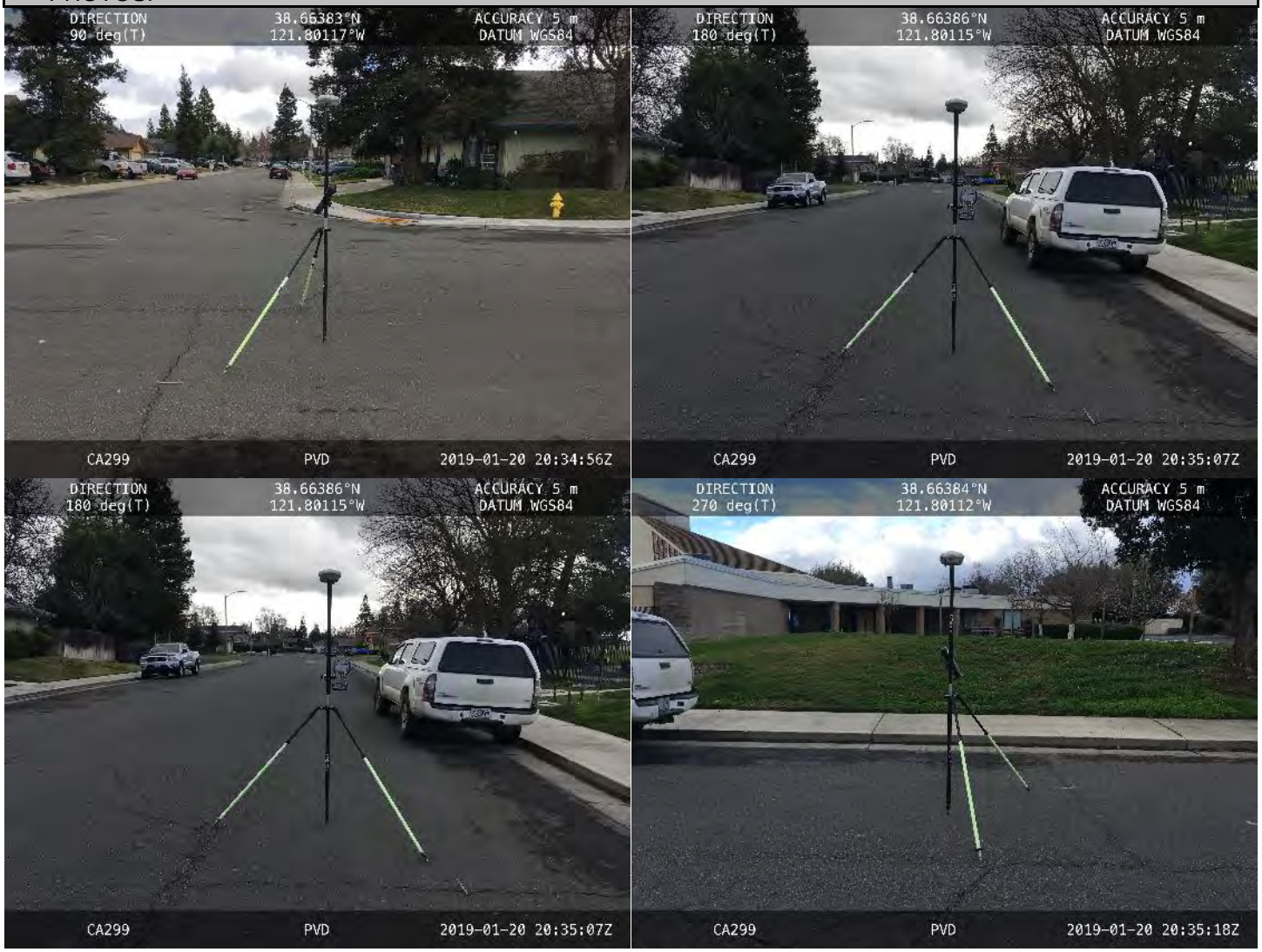
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4280155.438	604301.670	23.439

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	CA300
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Madison

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4281531.793	589701.374	45.929

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	CA301
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Esparto

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4280773.923	582525.590	81.974

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	CA302
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Chiles Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4275387.242	561828.456	139.465

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.028
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA303
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Aetna Springs

°

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4277283.43	554193.178	185.858

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA304
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Aetna Springs

°

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4278561.368	546452.372	215.749

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.022
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA305
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Calistoga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4273267.843	535024.632	158.411

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA306
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sonoma
Quad	Calistoga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4267371.718	533791.871	327.929

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA307
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	St Helena

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4267874.412	545993.697	310.799

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA308
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Chiles Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

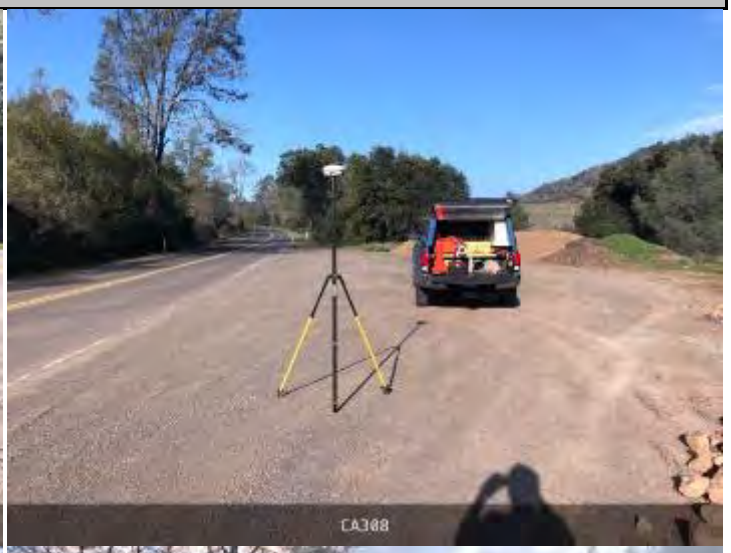
Northing	Easting	Elevation
4267600.379	555440.529	296.464

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.021
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	CA309
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Lake Berryessa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4265553.845	567507.460	175.683

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.023
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA310
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Monticello Dam

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4266182.721	586652.615	58.837

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	CA311
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Merritt

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4267176.439	598371.142	29.153

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.020
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	CA312
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Davis

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4268515.696	616371.832	7.035

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	CA313
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Rutherford

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4256444.963	550257.576	53.801

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA314
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Chiles Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4262526.025	563441.753	302.843

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	CA315
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Cappell Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4255829.120	574001.110	189.854

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.030
RMSE Z	0.028
GPS Method	RTN

PHOTOS:









Point ID	CA316
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Mount Vaca

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

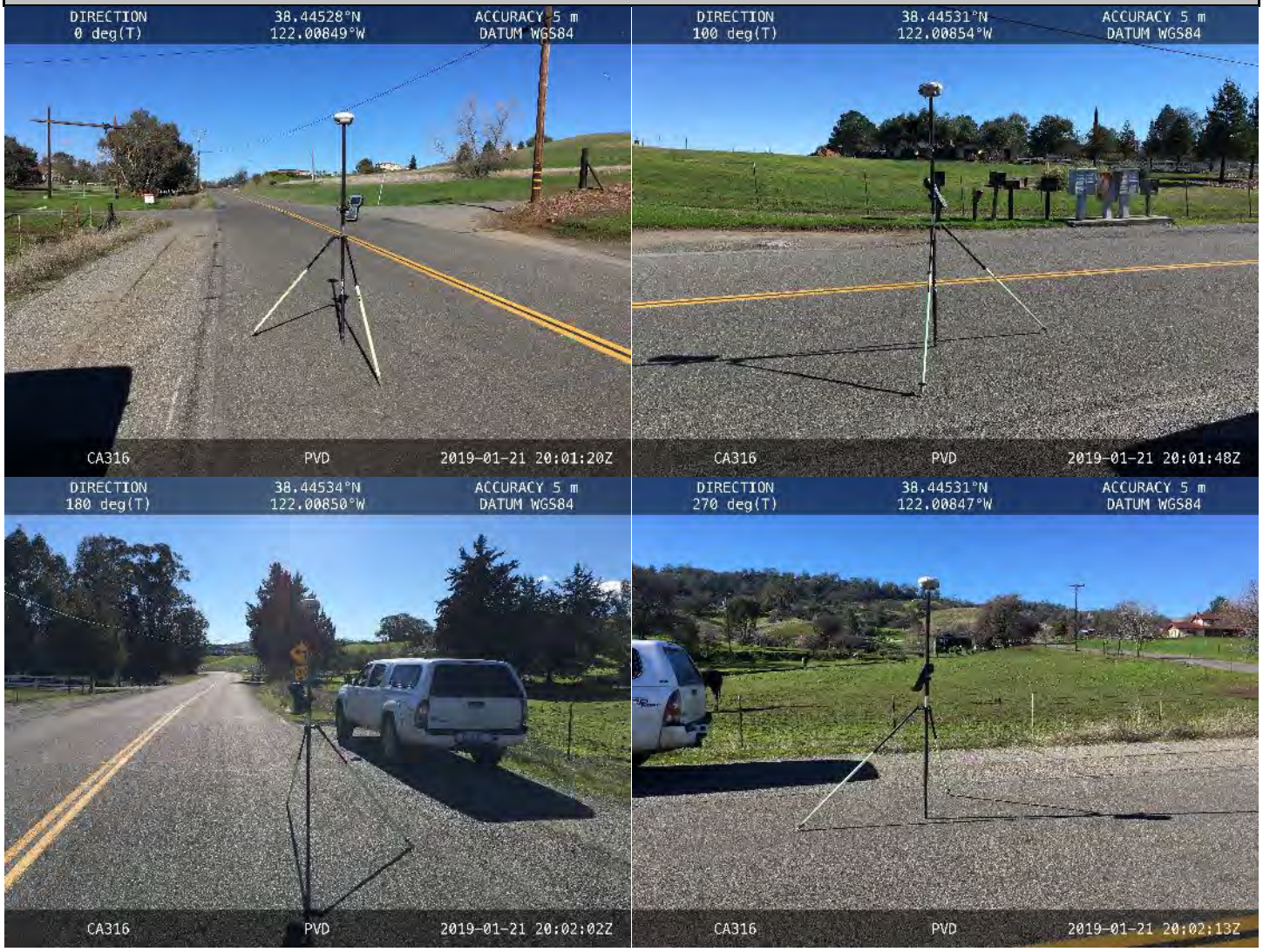
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4255688.635	586525.818	91.237

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA317
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dixon

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4256031.734	599571.519	599571.519

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	CA318
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Solano
County	Salano
Quad	Saxon

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4256789.643	613221.691	8.534

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	CA319
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

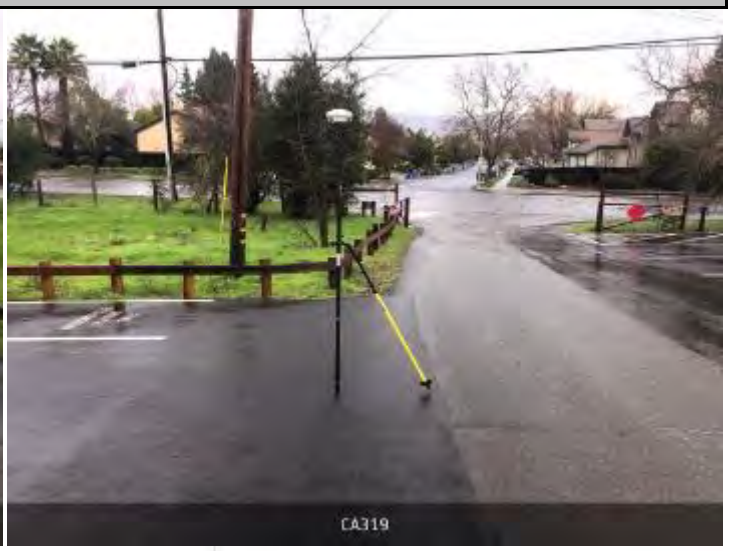
Northing	Easting	Elevation
4242446.853	557879.526	36.897

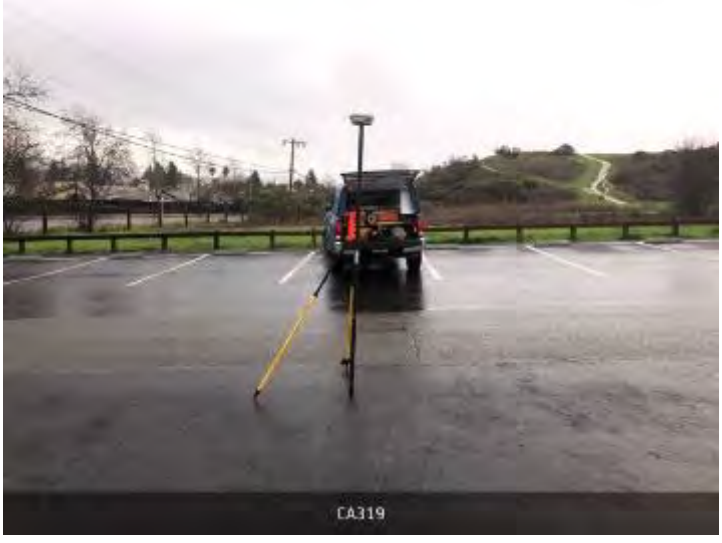
Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-04-2019
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	CA320
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4244769.113	563953.872	28.713

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.024
RMSE Z	0.031
GPS Method	RTN

PHOTOS:



Point ID	CA321
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Mount George

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4244428.456	576263.266	96.688

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.015
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA322
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Elmira

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4245431.709	589148.434	52.039

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.030
RMSE Z	0.037
GPS Method	RTK

PHOTOS:









Point ID	CA323
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dozier

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4246237.758	602414.546	12.170

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	CA324
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233901.114	556285.984	53.788

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	CA325
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233855.285	563977.401	13.834

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA326
Project No.	33371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Fairfield South

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233252.872	576918.833	18.752

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA327
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Denverton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

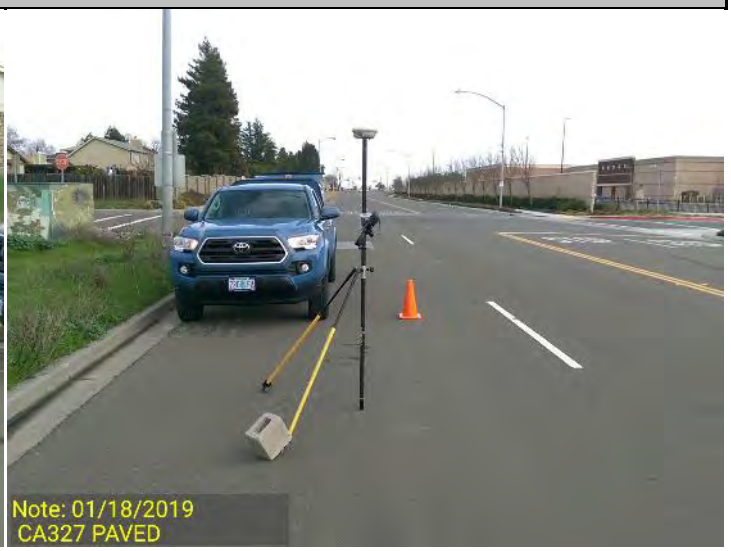
Northing	Easting	Elevation
4233316.575	588202.957	5.258

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.027
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	CA328
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Birds Landing

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233322.065	604553.886	5.854

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA329
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4240997.813	506807.780	6.666

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA330
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Two Rock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4238913.382	511009.982	87.636

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA331
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Tomales

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4225733.925	505002.127	182.733

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA332
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4224316.590	516797.765	60.065

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	FastStatic

PHOTOS:









Point ID	CA333
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Petaluma

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4226997.218	529555.105	40.184

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	FastStatic

PHOTOS:









Point ID	CA334
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Cuttings Wharf

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4221036.466	557442.628	2.784

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	CA335
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Cordelia

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4222471.960	567005.382	35.261

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA336
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Fairfield South

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4224407.622	576947.147	7.551

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA337
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Denverton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225509.441	597285.890	13.460

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	CA338
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Rio Vista

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225427.342	615197.982	9.425

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.016
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	CA339
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Drakes Bay

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4215722.324	504416.145	34.201

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.022
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA340
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Inverness

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4213434.026	516905.908	10.078

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA341
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Novato

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4211203.010	533121.469	200.052

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	CA342
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Novato

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4217615.794	542675.116	2.770

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA343
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Mare Island

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4208244.295	562541.543	8.236

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-28-2019
RMSE Hz	0.031
RMSE Z	0.033
GPS Method	RTK

PHOTOS:









Point ID	CA344
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Benicia

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4208780.085	575838.325	3.102

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	CA345
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Honker Bay

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4208801.382	592852.901	30.373

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA346
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Birds Landing

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4220737.499	608698.852	40.797

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	CA347
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Drakes Bay OE S

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4205284.861	501762.625	42.539

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA348
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Bolinas

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4204842.236	521980.030	101.200

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA349
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4206615.766	531946.819	125.344

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA350
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Quentin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4205493.275	546958.965	2.389

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

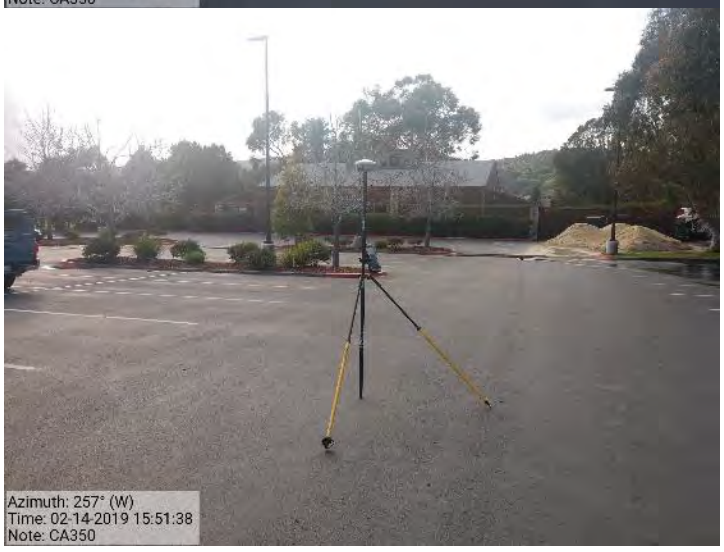
Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA351
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Bolinas

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4196713.736	527020.160	4.084

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.020
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA352
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Rafael

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4194893.862	541505.099	4.010

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA353
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Bonita

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4186646.728	541705.467	64.279

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA354
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Quentin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4192176.148	547547.596	2.097

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA355
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	San Quentin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4197678.236	554384.444	2.591

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA356
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Briones Valley

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4195001.567	569416.507	131.477

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA357
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Walnut Creek

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4197669.749	581401.057	35.968

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA358
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Clayton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4198469.582	595052.615	190.698

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.018
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	CA359
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	Point Bonita

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4181602.909	543022.009	47.416

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

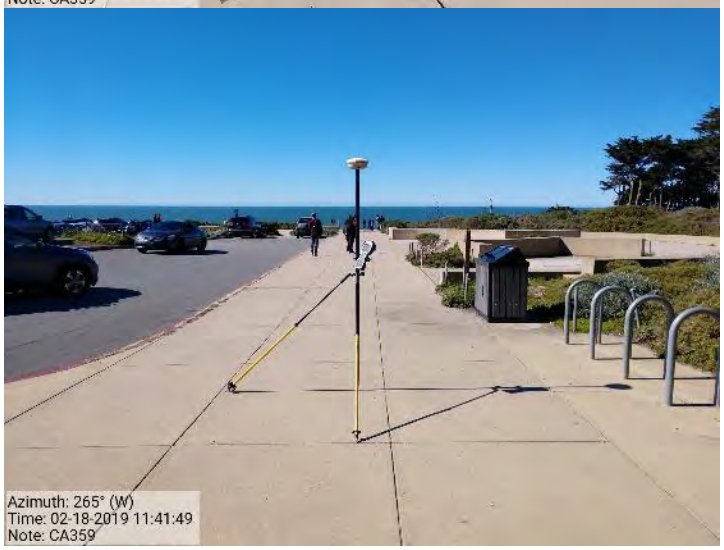
Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.023
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA360
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	San Francisco North

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4183702.735	552980.447	3.230

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.015
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	CA361
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	San Francisco South

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4177513.531	547965.613	173.515

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.020
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	CA362
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Alameda
Quad	San Francisco

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4184444.089	558738.468	4.175

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.032
RMSE Z	0.032
GPS Method	RTK

PHOTOS:









Point ID	CA363
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Oakland East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4190579.366	573603.970	197.474

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.021
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	CA364
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Las Trampas Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4188444.843	586415.869	94.846

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.023
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	CA365
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Diablo

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4189954.188	594524.751	542.857

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA366
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Alameda
Quad	Las Trampas Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4180586.931	587489.876	220.407

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.027
RMSE Z	0.039
GPS Method	RTK

PHOTOS:









Point ID	CA367
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Gold Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

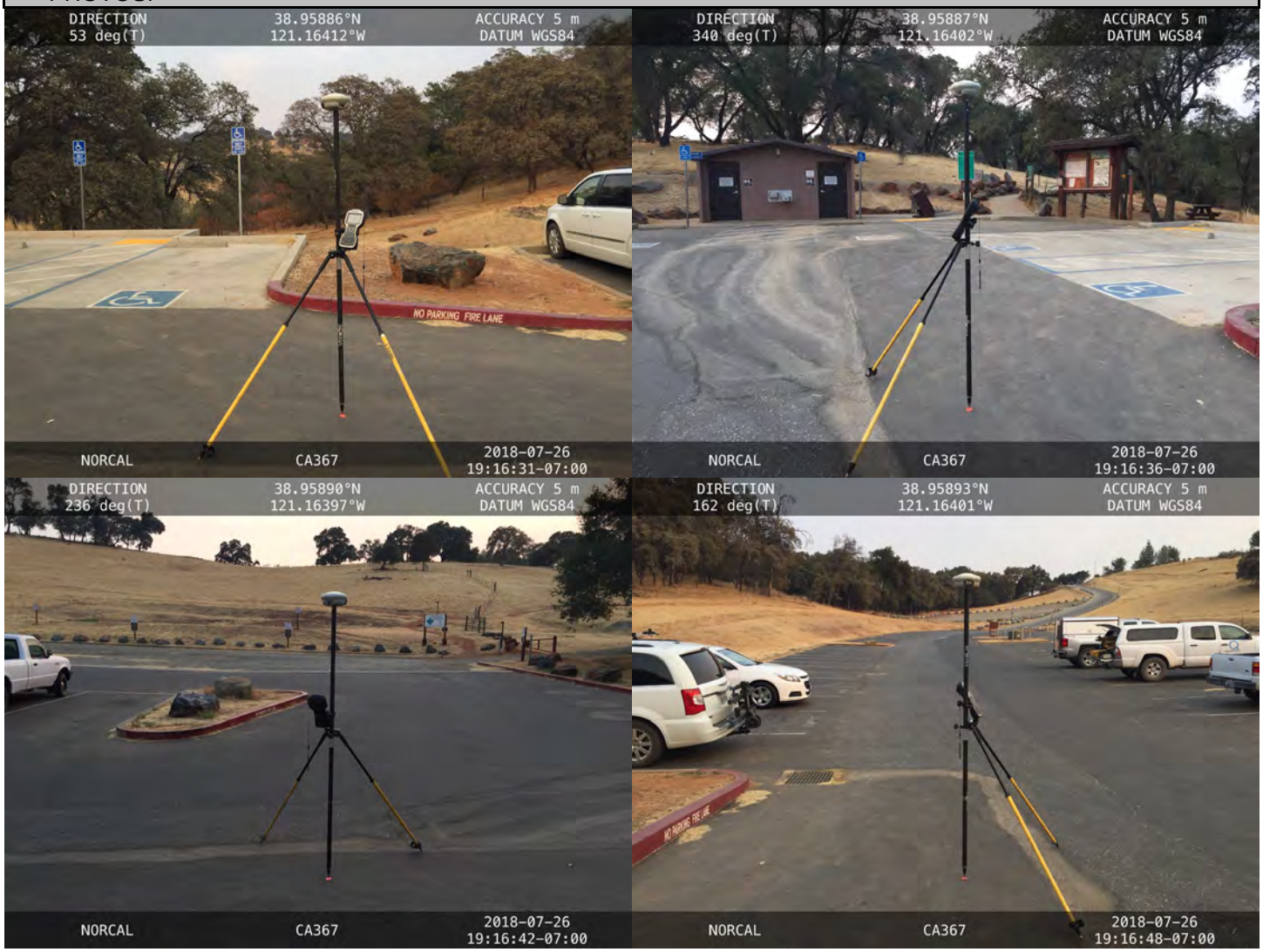
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4313816.460	659079.157	298.356

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	RTK

PHOTOS:



Point ID	CA0368
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Hall Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406229.694	525407.544	1522.485

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA369
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389336.860	514851.830	1839.936

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA370
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	South Yolla Bolly Mountains

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432013.665	515301.776	2003.098

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-24-2018
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA371
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Raglin Ridge

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4433996.537	525028.867	1410.228

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-24-2018
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK (RTN)

PHOTOS:









Point ID	CA372
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	Richmond

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4198442.405	559531.424	22.173

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA701
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Rainbow Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4581159.807	593135.706	1391.436

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FS

PHOTOS:



Point ID	CA702
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4580982.999	601721.358	1394.902

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.010
RMSE Z	0.020
GPS Method	FS

PHOTOS:



Point ID	CA703
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4580963.145	610663.850	1346.355

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	FS

PHOTOS:



Point ID	CA704
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568211.092	597114.216	1212.908

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	CA705
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Dead Horse Summit

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4566458.871	600134.223	1217.728

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	FS

PHOTOS:



Point ID	CA706
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

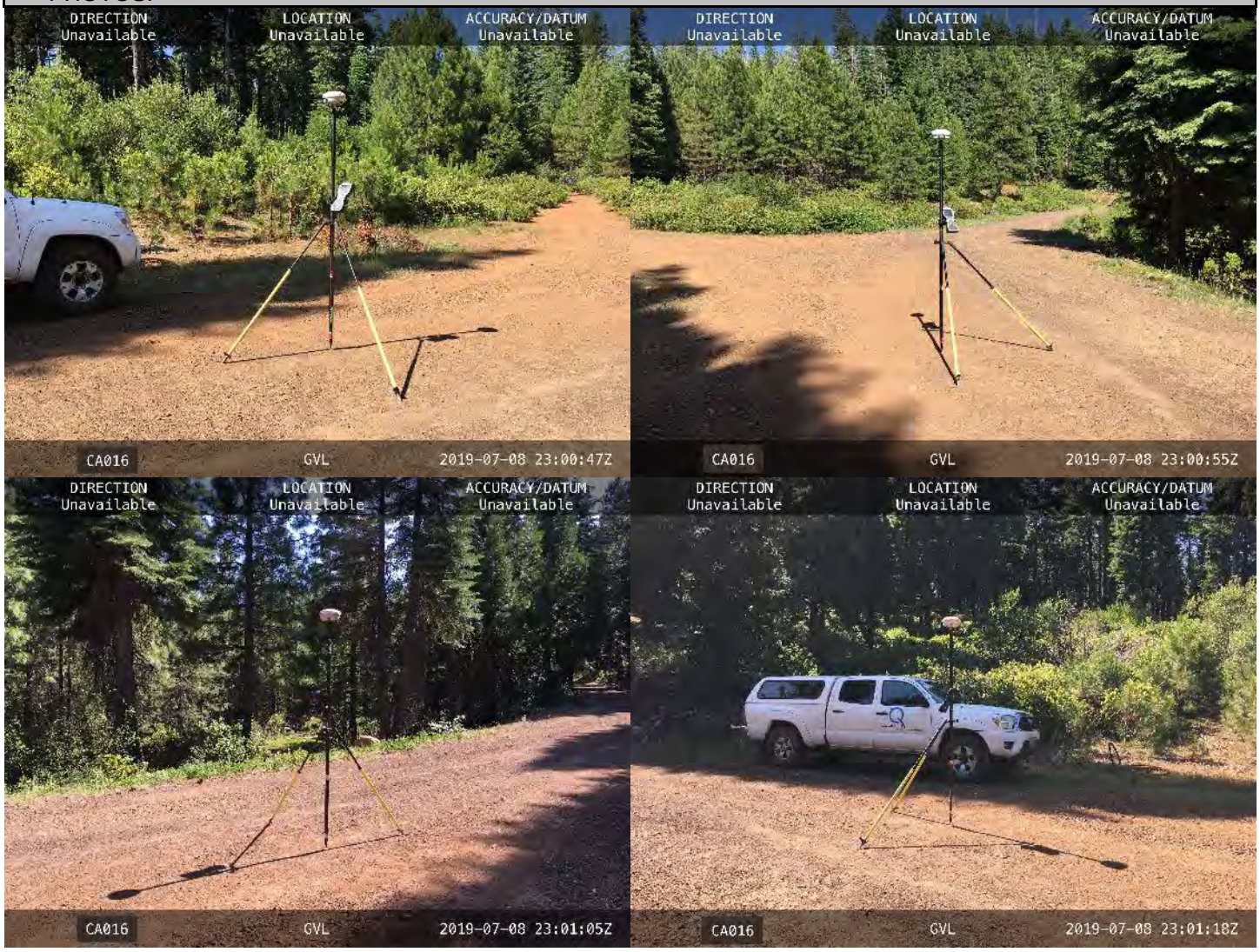
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4572096.782	608337.068	1410.908

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	CA707
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568791.022	624296.997	1140.531

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/13/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Point ID	CA708
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Modoc
Quad	Timbered Crater

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4563854.034	635979.204	1095.308

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	RTN

PHOTOS:

Unfortunately, photos do not exist for this point but here is the general location.







Point ID	CA709
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	East of Pondosa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4559164.212	625173.447	1066.623

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:



Point ID	CA710
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Fall River Mills

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4551068.317	633340.04	1008.822

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.012
RMSE Z	0.010
GPS Method	RTN

PHOTOS:

Unfortunately, photos do not exist for this point but here is the general location.









Point ID	CA711
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Day

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4553291.004	641024.181	1100.092

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/10/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FS

PHOTOS:



Point ID	CA711A
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4561299.157	619916.005	1115.357

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/12/2019
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Point ID	CA712
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Dana

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4553307.229	624048.604	1018.521

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/10/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS

PHOTOS:



Point ID	CA712A
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4564579.909	625438.537	1120.739

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/15/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Point ID	CA713
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Dana

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4550254.520	624763.602	1009.891

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/15/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	FS

PHOTOS:



Point ID	CA112
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408106.081	621143.934	686.923

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA801
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409810.239	629785.733	1118.052

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.025
RMSE Z	0.038
GPS Method	RTK

PHOTOS:



Point ID	CA803
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406193.351	632674.901	459.13

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	Fast Static

PHOTOS:



Point ID	CA804
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

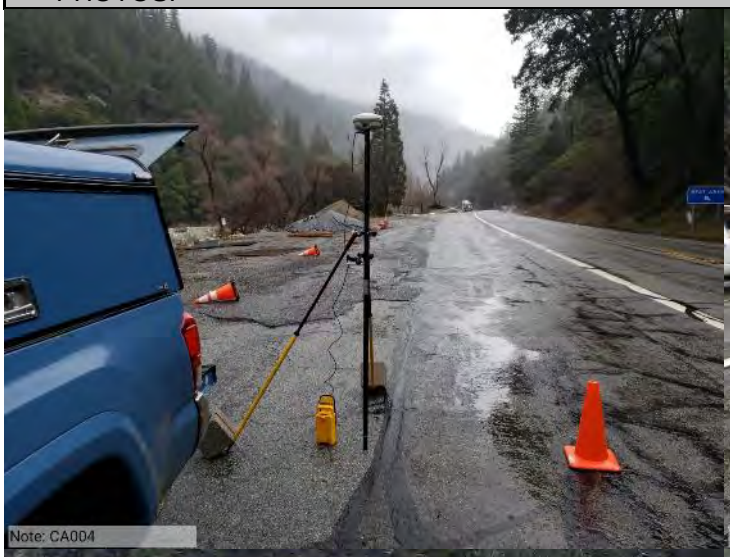
°

Northing	Easting	Elevation
4411968.920	637376.044	450.896

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.018
RMSE Z	0.026
GPS Method	Fast Static

PHOTOS:









Point ID	CA805
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise West

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4405466.496	615318.842	222.562

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/30/2019
RMSE Hz	0.021
RMSE Z	0.027
GPS Method	RTK

PHOTOS:



Point ID	CA806
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Chico

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399277.198	605870.913	102.999

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	CA807
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4400497.894	616545.889	466.277

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA808
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4402114.274	619458.010	560.880

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	CA809
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4401767.636	630095.839	652.736

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA810
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4391510.687	608198.597	61.557

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.021
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	CA811
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4390760.705	614939.722	100.948

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/28/2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	CA812
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389535.954	625475.424	404.931

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/31/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	CA813
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397365.973	626779.917	618.093

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	CA329
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4240997.813	506807.780	6.666

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA330
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Two Rock

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4238913.382	511009.982	87.636

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA901
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4239334.662	504206.366	16.653

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA902
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

°

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4238554.742	509060.237	50.242

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	CA903
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225733.925	505002.127	182.733

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA904
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4224316.590	516797.765	60.065

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	FastStatic

PHOTOS:









Point ID	CA905
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Petaluma

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226997.218	529555.105	40.184

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	FastStatic

PHOTOS:









Point ID	CA906
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Drakes Bay

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4215722.324	504416.145	34.201

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.022
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA907
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4213434.026	516905.908	10.078

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA908
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Novato

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4211203.010	533121.469	200.052

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	CA909
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Novato

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4217615.794	542675.116	2.770

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	CA910
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Drakes Bay OE S

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205284.861	501762.625	42.539

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA911
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Bolinas

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4204842.236	521980.030	101.200

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	CA912
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4206615.766	531946.819	125.344

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	CA913
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Quentin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205493.275	546958.965	2.389

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA914
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Rafael

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4194893.862	541505.099	4.01

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	CA915
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Bolinas

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4196713.736	527020.16	4.084

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.020
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	CA916
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Bonita

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4186646.728	541705.467	64.279

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	CA917
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Quentin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4192176.148	547547.596	2.097

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Bare Earth Point Log Sheets

Point ID	BE001
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Cannibal Island

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4505322.762	392405.301	23.332

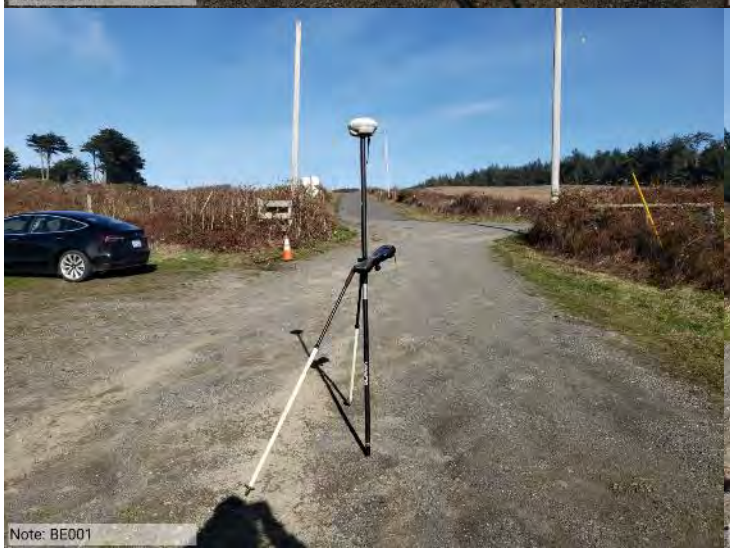
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:









Point ID	BE002
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4508752.706	417887.289	814.973

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	BE003
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4507196.48	422052.774	825.516

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE004
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Cannibal Island

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4499976.032	389765.507	3.614

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

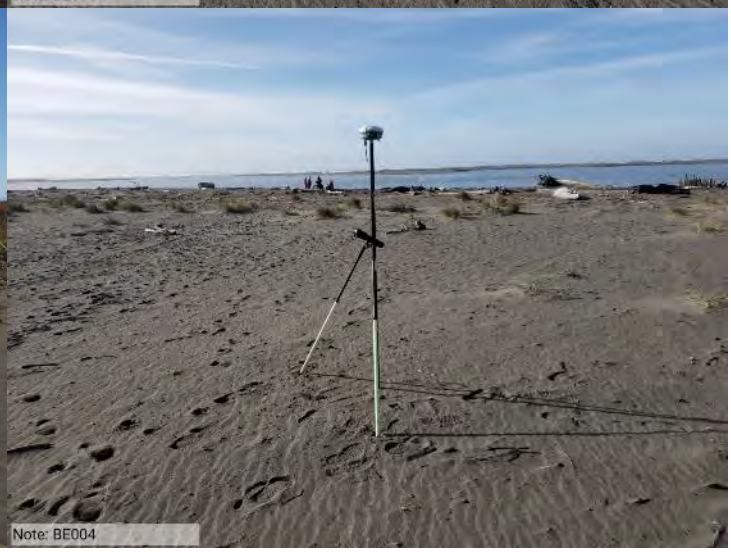
Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.022
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	BE005
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fields Landing

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4499781.553	398178.236	97.415

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018	
RMSE Hz	0.009	
RMSE Z	0.018	
GPS Method	Fast Static	

PHOTOS:









Point ID	BE006
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4499647.033	422168.46	759.951

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE007
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4500121.668	426823.655	762.531

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.010
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	BE008
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ferndale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4490944.788	385422.934	101.403

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	BE009
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fortuna

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4491384.946	397427.743	10.428

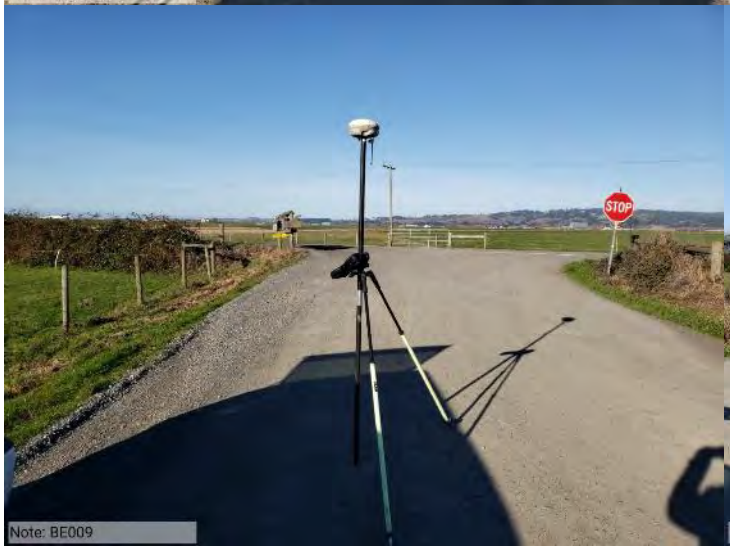
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.022
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	BE010
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Hydesville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4487992.881	409841.642	38.573

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	BE011
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Owl Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

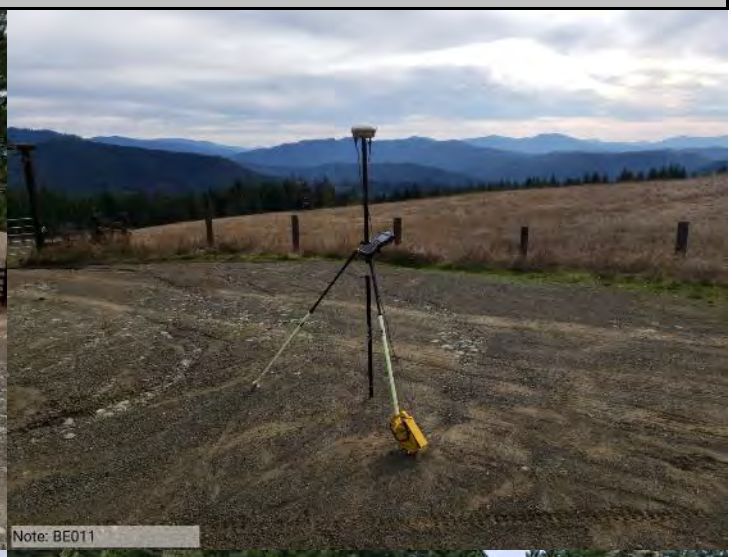
Northing	Easting	Elevation
4487526.132	422196.678	689.228

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	BE012
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Yager Junction

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4490185.561	432089.794	994.634

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE013
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Larabee Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481646.12	437152.152	652.821

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	BE014
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Capetown

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481971.797	384526.351	280.225

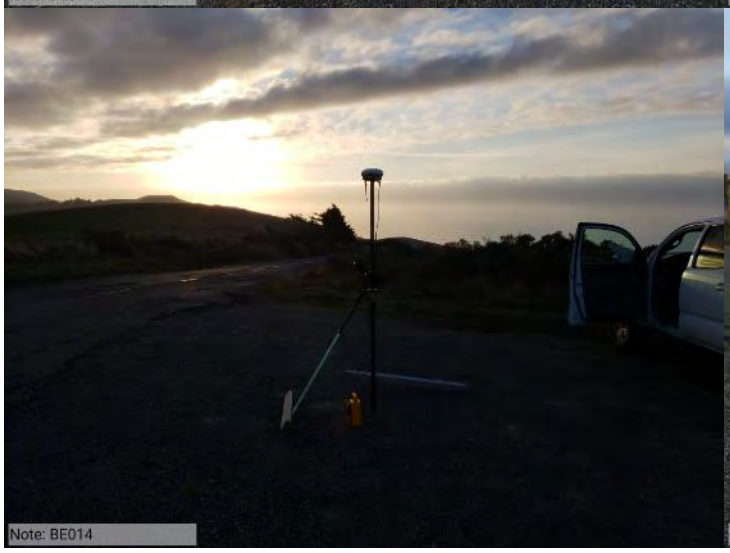
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	BE015
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Capetown

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4483597.369	393363.26	610.992

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

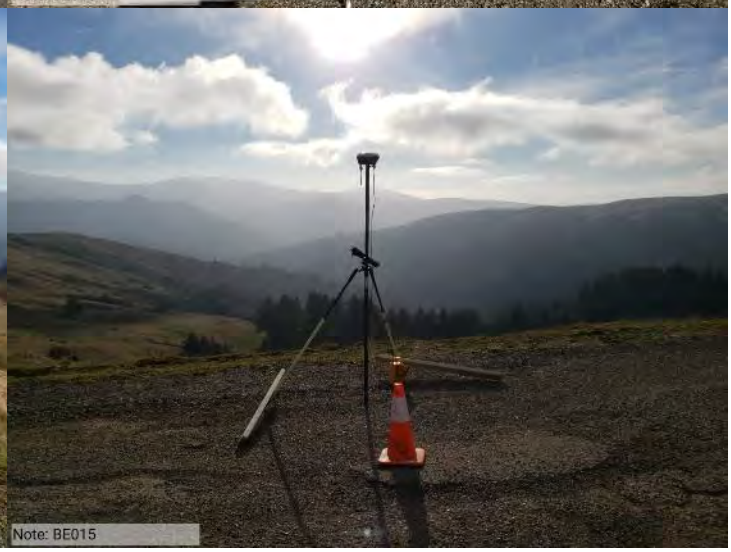
Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	BE016
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Taylor Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

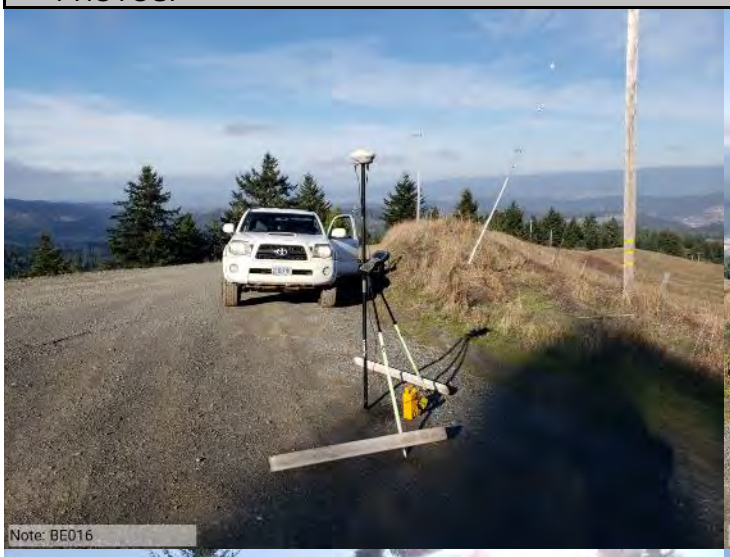
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4478474.73	403213.309	594.462

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE017
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Redcrest

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481021.591	419797.879	90.521

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE018
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Yager Junction

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4480068.693	432045.461	208.714

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.009
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	BE019
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Larabee Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4476855.79	442367.169	751.085

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:









Point ID	BE020
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4469542.168	384371.178	9.937

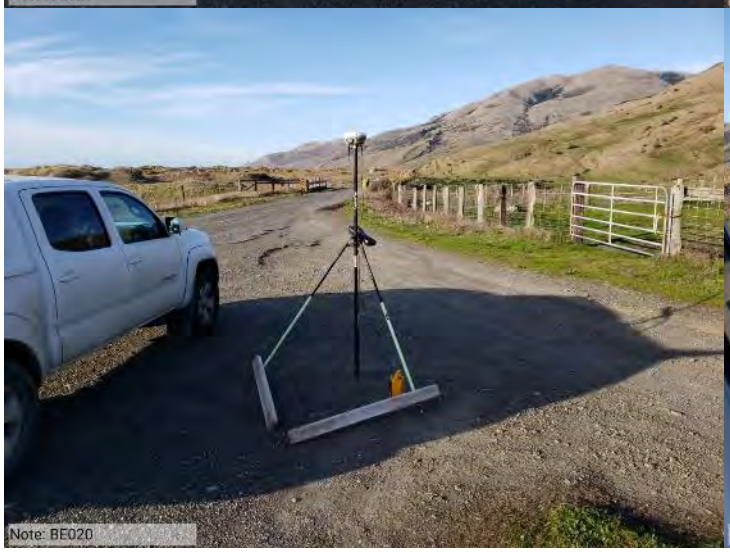
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.016
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE021
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464865.41	389893.325	36.859

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



Point ID	BE022
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Shelter Cove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432838.176	409356.937	195.145

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	FS

PHOTOS:



Point ID	BE023
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Weott

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4467758.927	421649.470	51.860

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-10--2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	BE024
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464688.789	443037.747	362.269

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.007
RMSE Z	0.015
GPS Method	FS

PHOTOS:









Point ID	BE025
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bridgeville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4474585.242	435209.636	509.915

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	BE026
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

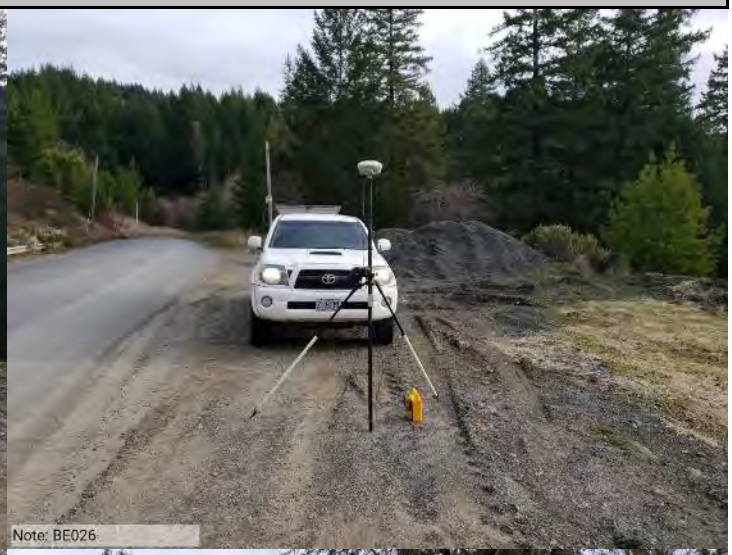
Northing	Easting	Elevation
4468894.331	437970.954	359.808

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-03-2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE027
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Garberville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4437960.743	431975.757	100.583

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	FS

PHOTOS:



Point ID	BE028
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Shasta
Quad	Reading Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4482622.061	633166.766	2104.618

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.011
RMSE Z	0.018
GPS Method	FastStatic

PHOTOS:









Point ID	BE029
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Mount Harkness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4477207.498	640018.253	1611.331

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	FastStatic

PHOTOS:









Point ID	BE030
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Red Cinder

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4473784.928	654560.236	1839.439

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.010
RMSE Z	0.020
GPS Method	FastStatic

PHOTOS:









Point ID	BE031
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lassen
Quad	Swain Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4479121.208	663795.289	1762.116

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	FastStatic

PHOTOS:









Point ID	BE032
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4460724.097	384747.58	5.356

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE033
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Buckeye Mtn

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

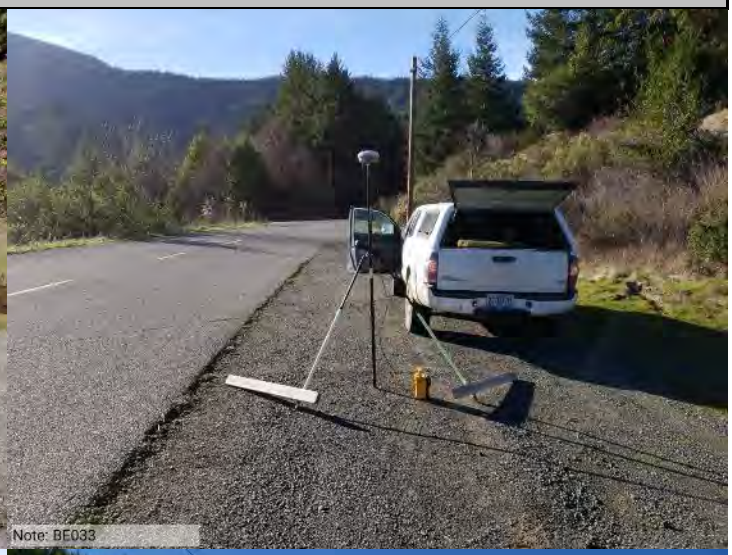
Northing	Easting	Elevation
4459103.100	394614.031	59.082

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.009
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:









Point ID	BE034
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bull Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4458019.773	407582.363	714.879

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.008
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	BE035
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Meyers Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4456238.366	435024.92	646.371

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-09-2019
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	BE036
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fort Seward

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451980.457	445687.475	109.915

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-09-2019
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE037
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Briceland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440228.387	423382.266	177.682

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	BE038
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Ruth Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

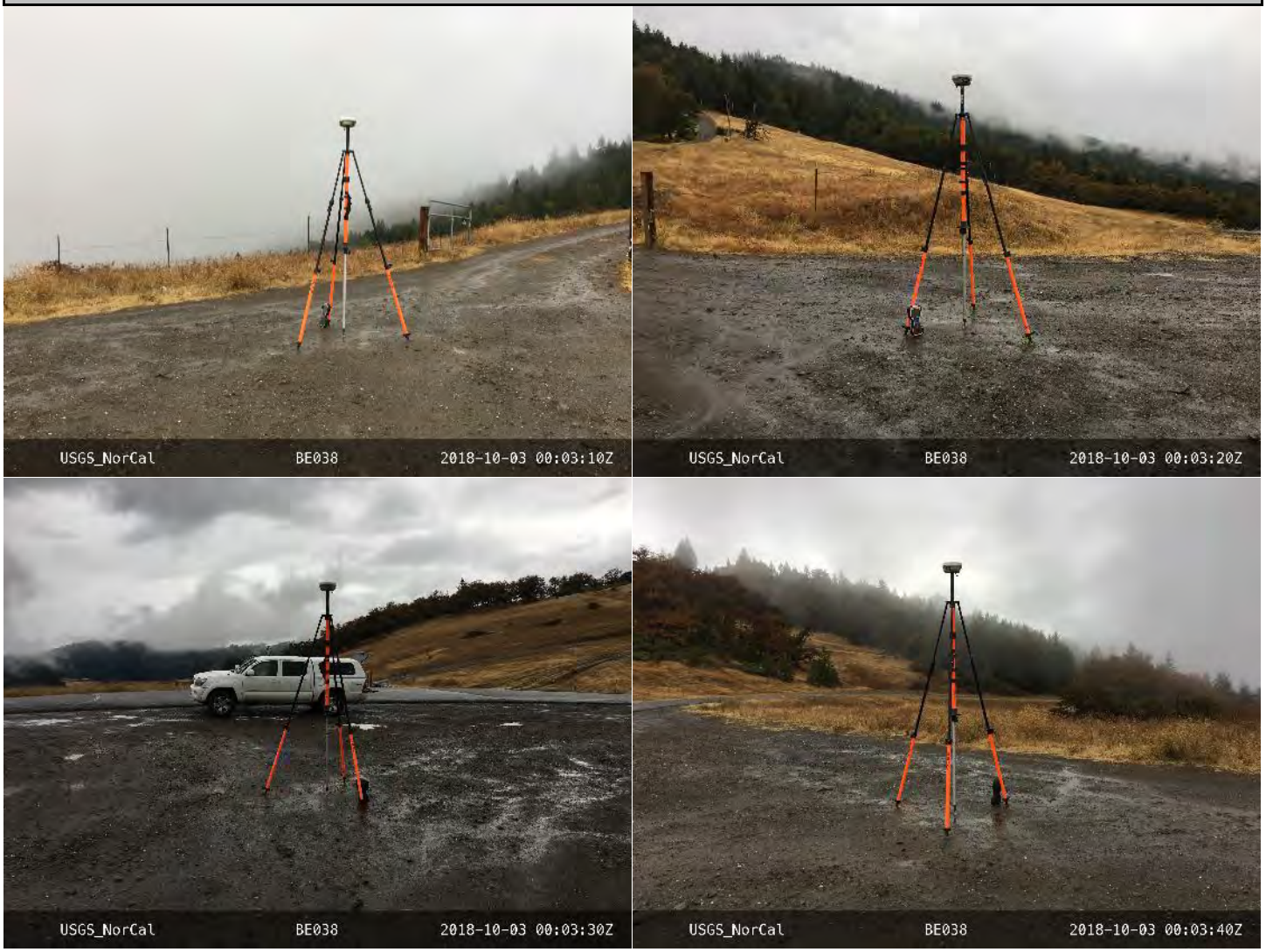
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4459809.998	466467.173	1173.771

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:



Point ID	BE039
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Mineral

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4469061.122	626503.81	1479.767

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:









Point ID	BE040
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Childs Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4466965.139	636909.369	1781.217

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	FastStatic

PHOTOS:









Point ID	BE041
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chester

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464792.478	649258.446	1417.469

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.010
RMSE Z	0.019
GPS Method	FastStatic

PHOTOS:









Point ID	BE042
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chester

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4463458.359	657625.911	1478.727

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.007
RMSE Z	0.014
GPS Method	RTK

PHOTOS:









Point ID	BE043
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lassen
Quad	Fredonyer Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4470164.497	681928.693	1702.224

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE044
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Shelter Cove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440200.63	408320.371	760.602

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-04-2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	BE045
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ettersburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443602.849	415028.572	207.329

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.015
RMSE Z	0.032
GPS Method	Fast Static

PHOTOS:









Point ID	BE046
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ettersburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4442988.573	424278.868	407.902

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE047
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Miranda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4448052.016	433593.348	80.689

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	BE048
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fort Seward

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4442526.708	446283.692	576.815

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE049
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Zenia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443767.027	458713.786	1011.092

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-03-2018
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:



Point ID	BE050
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Long Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440780.535	469704.417	853.586

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-03-2018
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE051
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Four Corners Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440845.217	480116.871	1408.17

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	BE052
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Swim Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

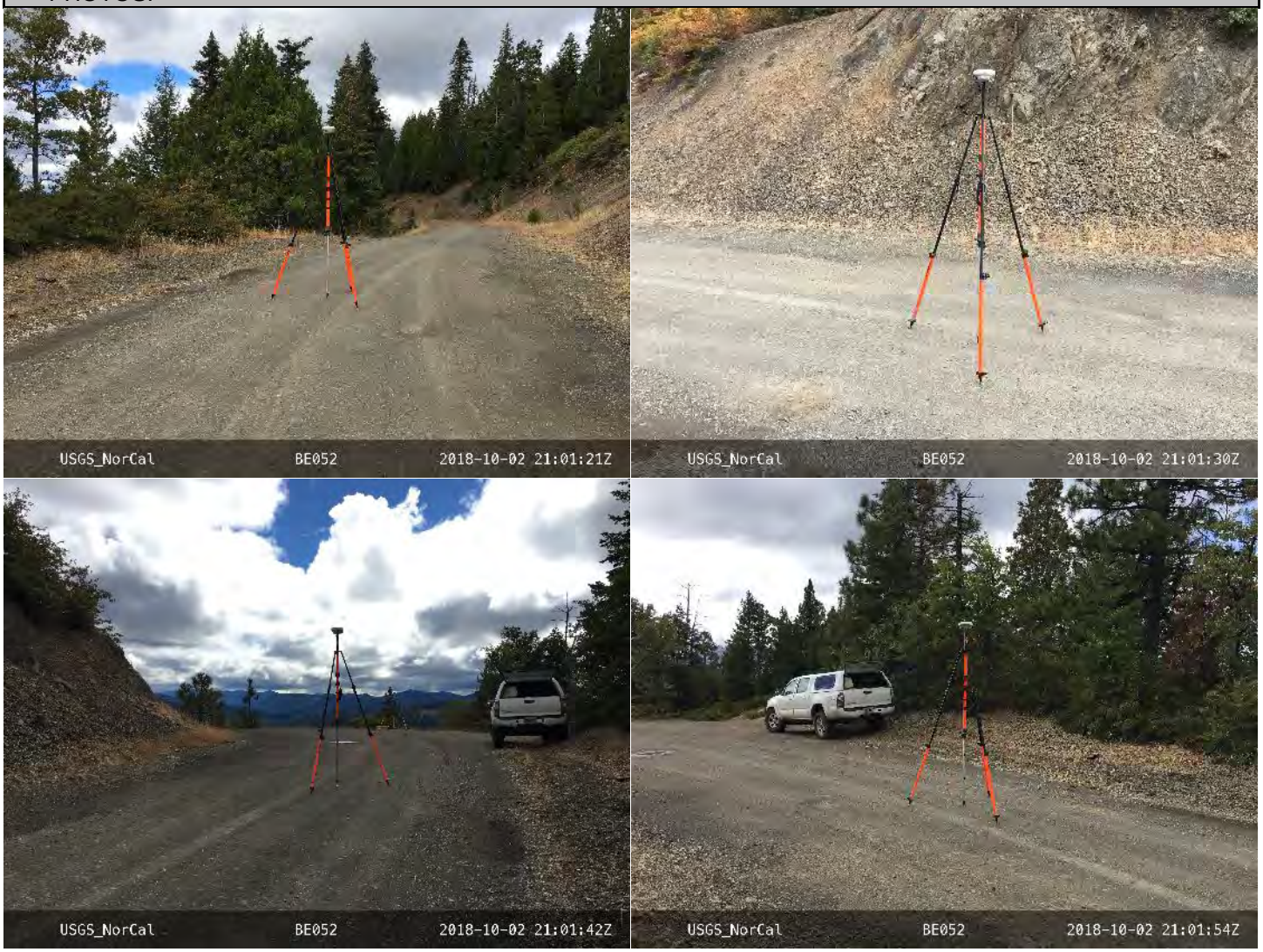
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443208.747	488754.809	1699.812

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	BE053
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Red Bluff East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4446975.38	566206.996	80.961

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	BE054
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Tuscan Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451088.167	574555.485	243.547

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.015
RMSE Z	0.031
GPS Method	RTK

PHOTOS:









Point ID	BE055
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Tuscan Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4452598.056	582567.053	333.921

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE056
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Barkley Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

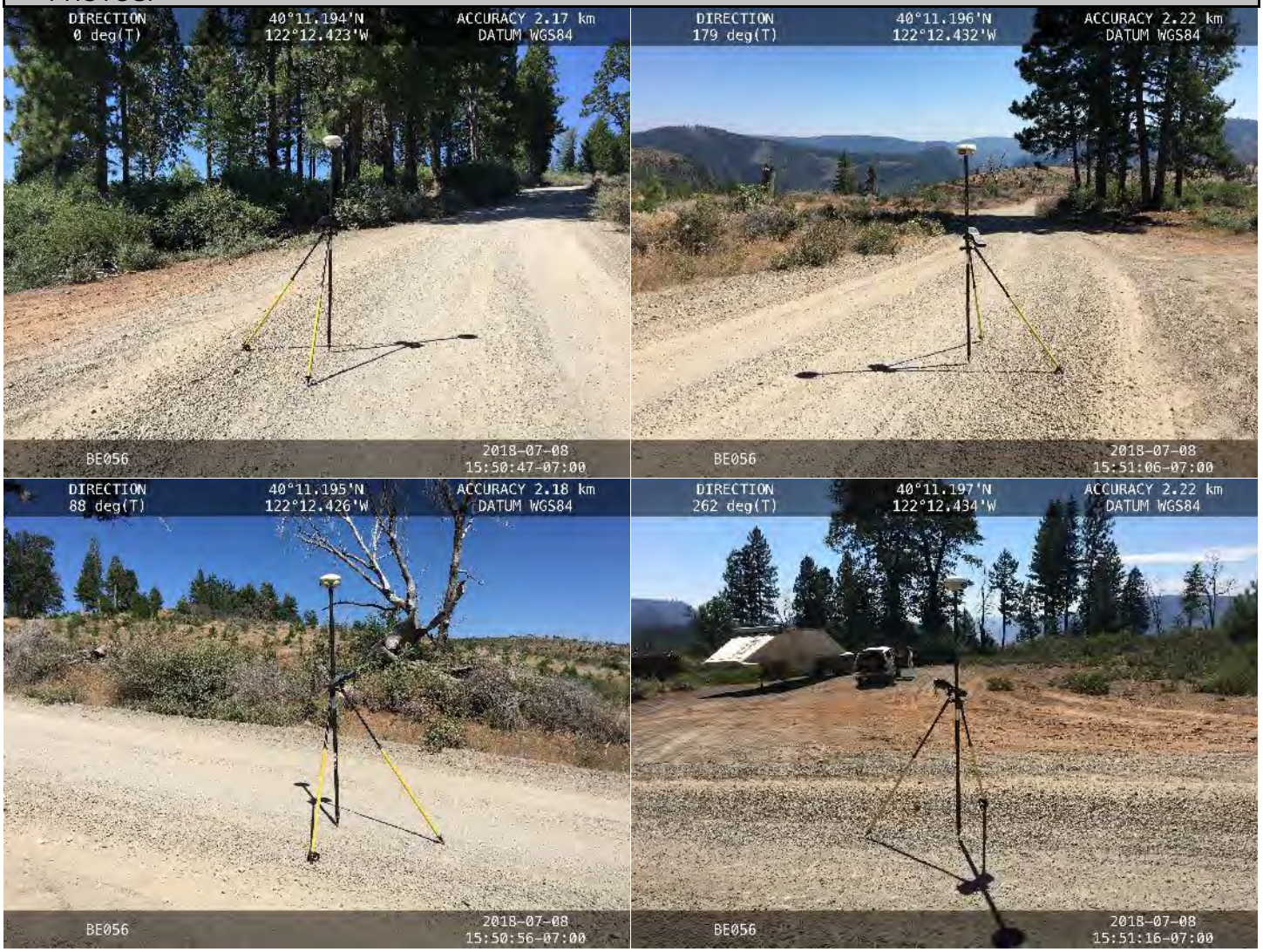
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4449500.736	615110.436	1263.709

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.014
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	BE057
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Onion Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451672.307	619794.898	1663.314

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.025
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	BE058
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Onion Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4455609.366	627303.112	1478.55

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.007
RMSE Z	0.018
GPS Method	FS

PHOTOS:



Point ID	BE059
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Humbug Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451439.762	646770.975	1420.355

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	RTK

PHOTOS:



Point ID	BE060
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Canyondam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4448625.73	664149.977	1401.736

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.016
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE061
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bear Harbor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4421845.04	417572.102	60.43

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-04-2019
RMSE Hz	0.007
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:



Point ID	BE062
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Piercy

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4424333.136	432145.838	240.438

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE063
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Noble Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422785.553	440489.276	764.532

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE064
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Tan Oak Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4421962.068	450312.787	1114.39

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE065
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Mina

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422948.627	469511.365	582.778

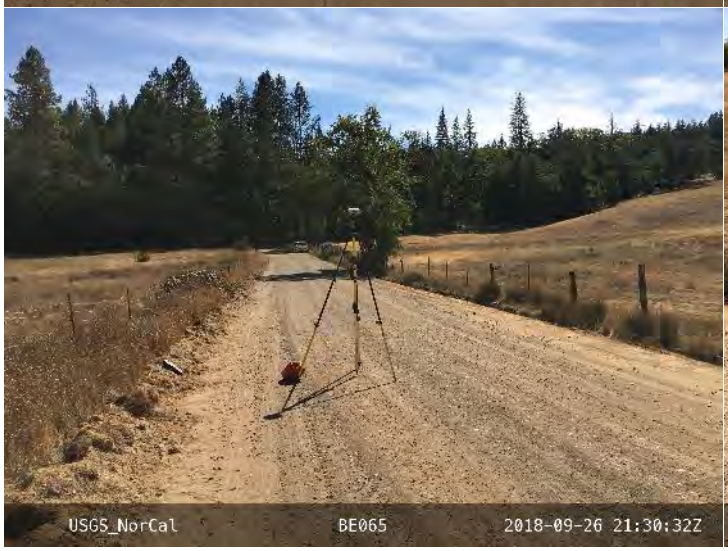
Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-26-2018
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:









Point ID	BE066
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Leech Lake Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

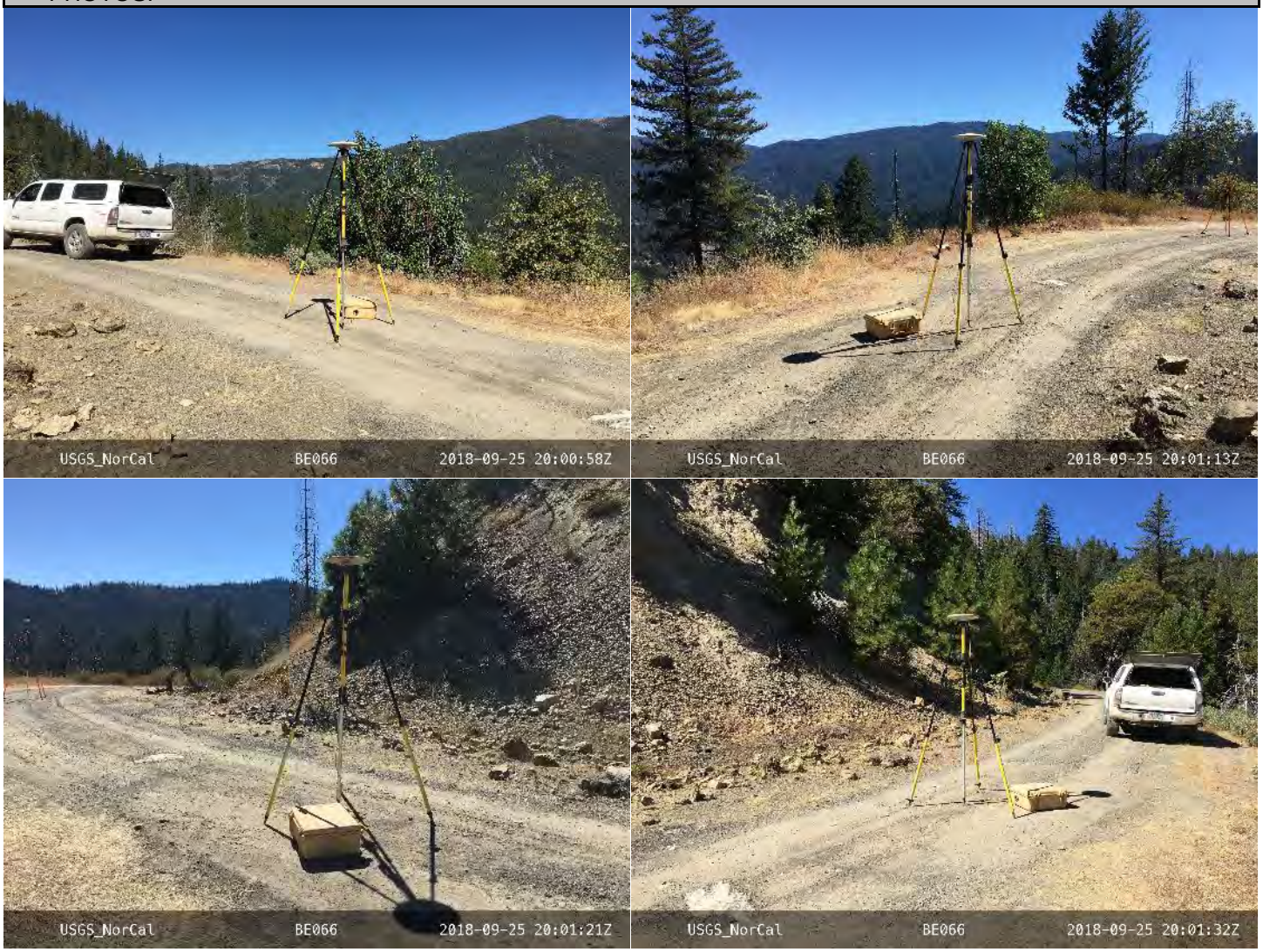
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422038.412	496396.866	1224.406

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:



Point ID	BE067
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Buck Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

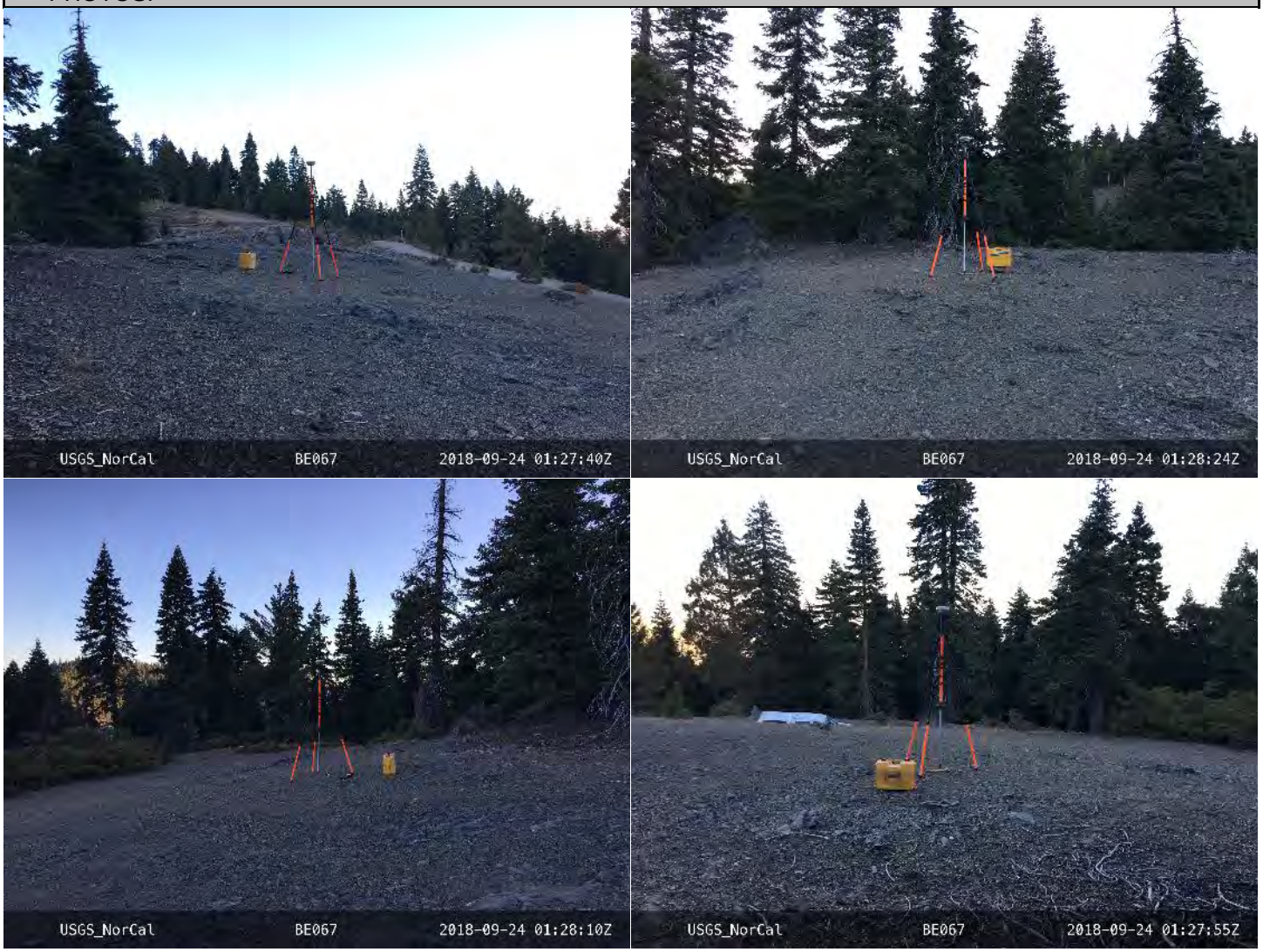
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4416630.124	504460.582	1898.857

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-23-2018
RMSE Hz	0.008
RMSE Z	0.016
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE068
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Riley Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422031.338	526649.751	1044.025

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE069
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Paskenta

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

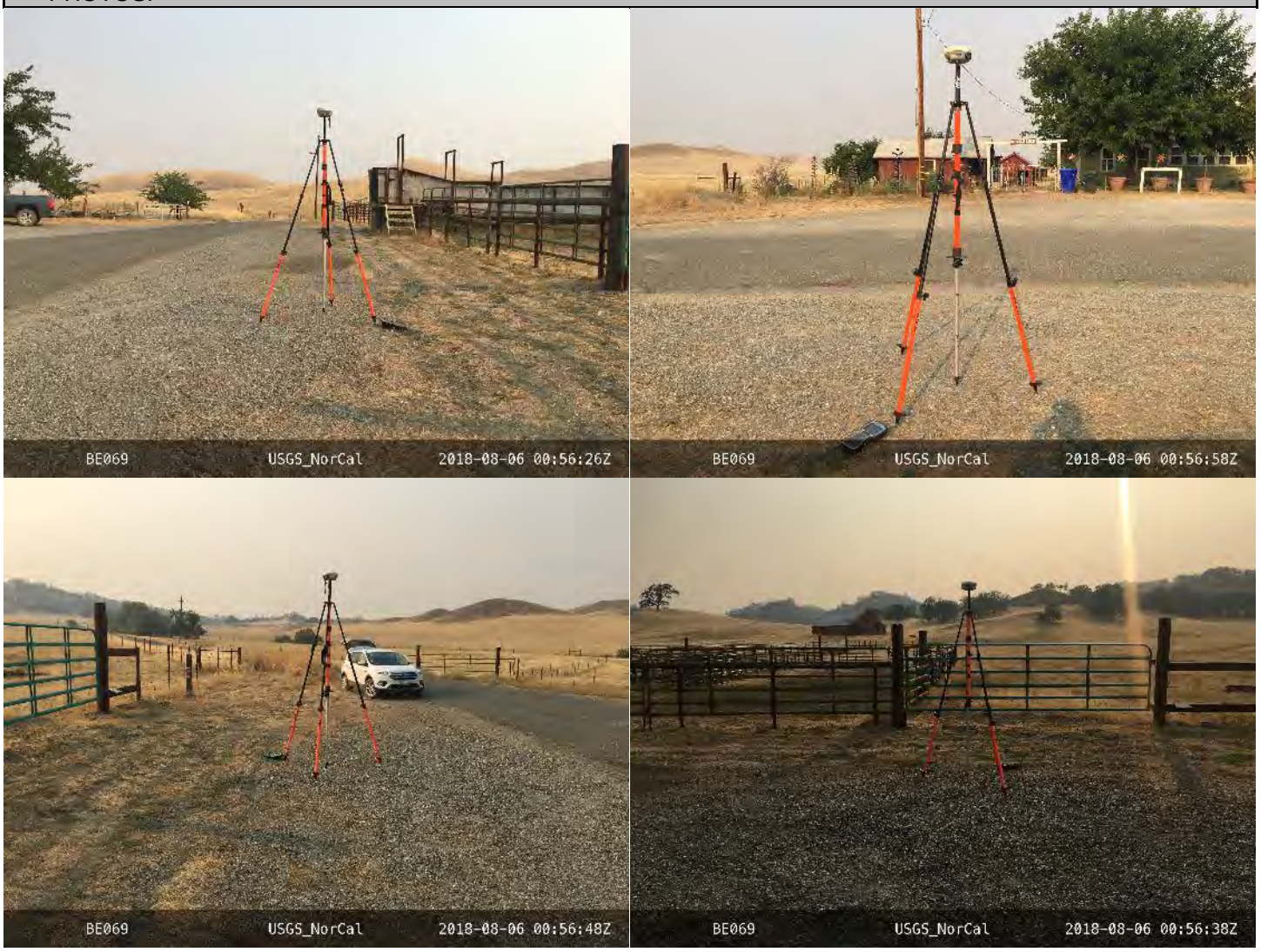
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4424864.358	538514.396	294.311

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE070
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Red Bank

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429658.228	551310.266	166.128

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.015
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	BE071
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	West of Gerber

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4428077.204	559839.451	117.962

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE072
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Gerber

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429660.137	572896.587	74.209

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE073
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Los Molinos

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429788.642	577087.302	65.369

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.021
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	BE074
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Devils Parade Ground

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432423.25	609308.294	1224.711

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE075
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Butte Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

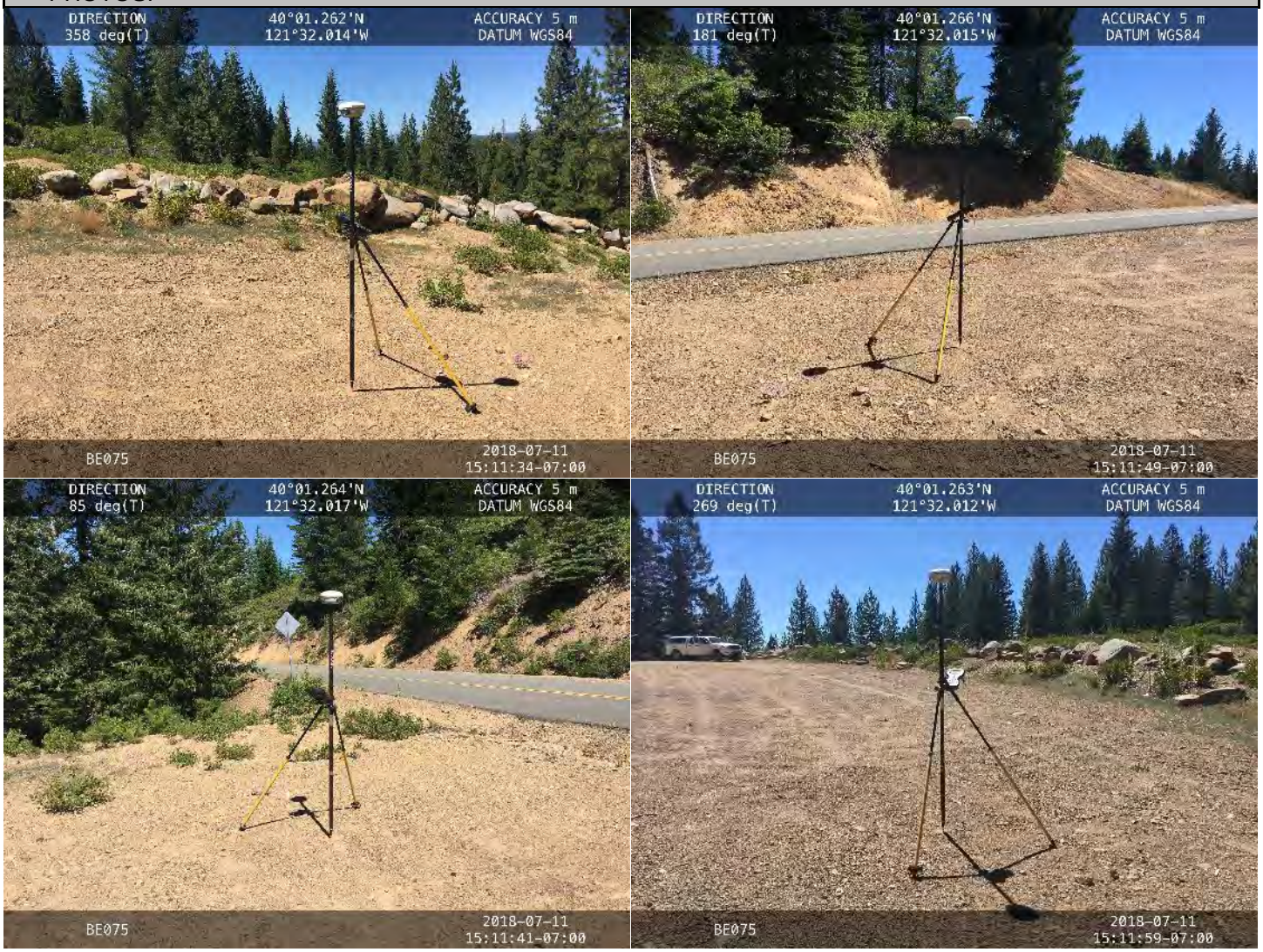
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4431122.39	625140.302	1587.44

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.013
RMSE Z	0.029
GPS Method	FS

PHOTOS:



Point ID	BE076
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Belden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429669.201	648470.391	678.376

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.019
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	BE077
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Hales Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409457.249	427306.54	4.712

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-07-2019
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:



Point ID	BE078
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Humboldt

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413391.601	438928.741	287.443

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE078A
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Leggett

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408780.21	443036.923	432.739

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-07-2019
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE079
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Tan Oak Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413307.755	450673.246	928.922

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE080
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Lake Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4436326.675	466601.48	1013.545

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-26-2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Point ID	BE081
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Mendocino Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407295.44	500562.332	1059.335

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-23-2018
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE082
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehana
Quad	Log Spring

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409249.808	516150.04	1642.696

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE083
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Newville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407249.848	536846.415	221.723

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE084
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Sehorn Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

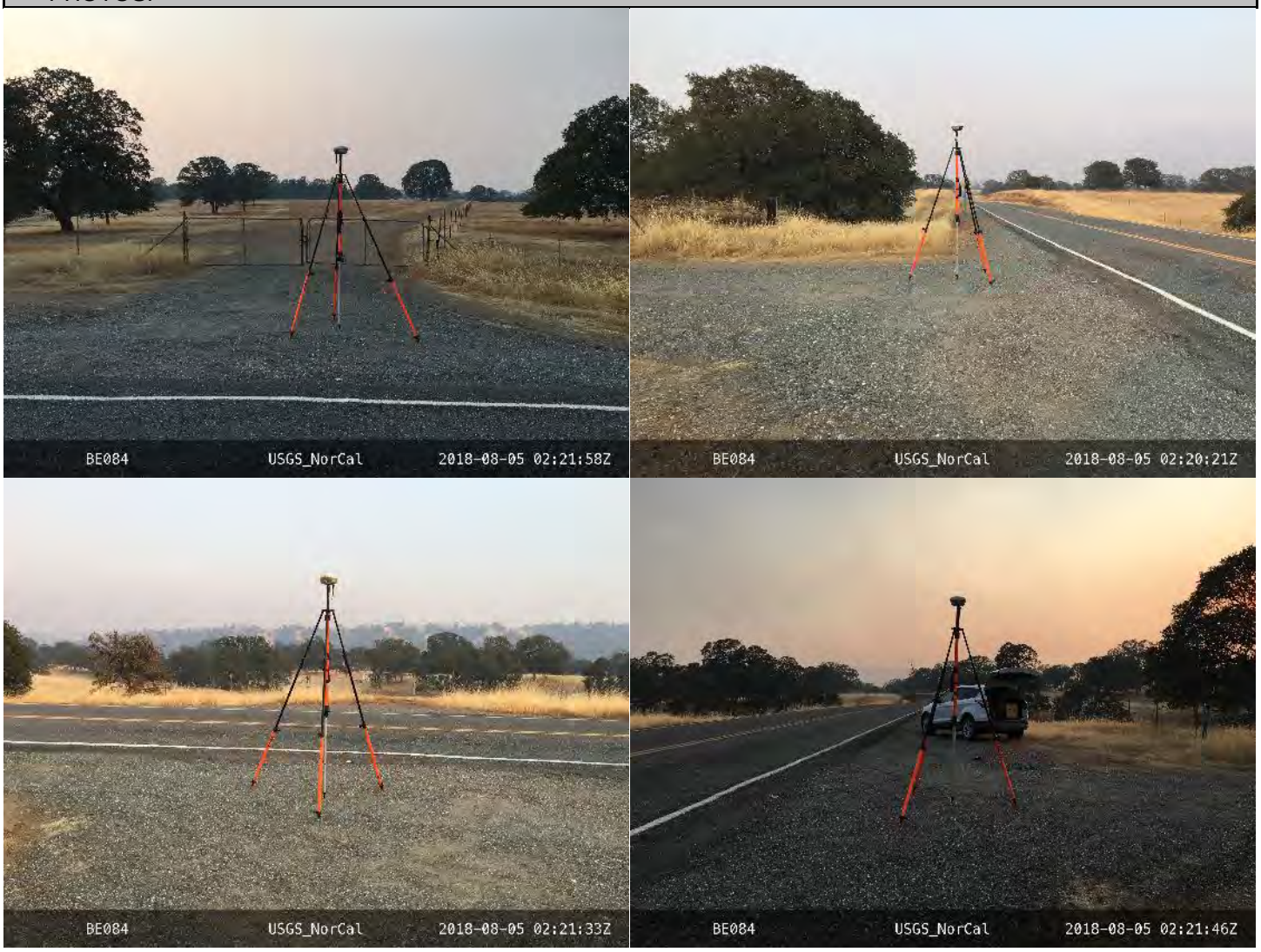
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406672.083	549400.448	163.724

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE085
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Black Butte Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4405639.419	563256.771	98.766

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	BE086
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Nord

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406956.374	587373.129	47.786

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	BE087
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407965.459	629690.931	1005.033

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	BE088
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4410706.845	644817.591	1642.069

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.009
RMSE Z	0.017
GPS Method	FS

PHOTOS:



Point ID	BE089
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Haskins Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

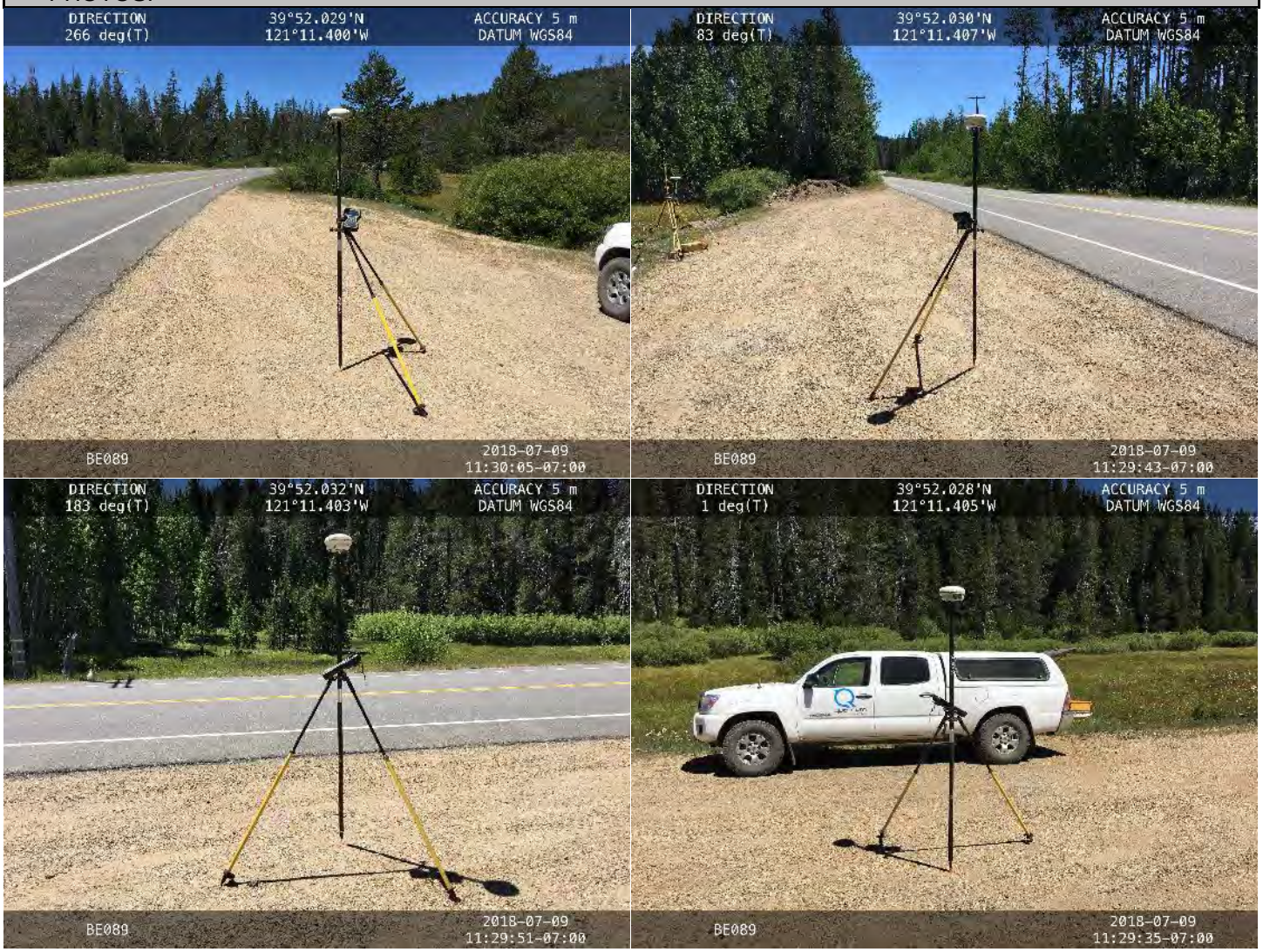
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4414583.214	654802.283	1578.324

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Point ID	BE090
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dogwood Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4411933.977	661062.148	1787.797

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	BE091
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Johnsonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413015.042	698607.138	1354.901

Operator	Gabe Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE092
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blue Nose Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4412585.512	689983.907	1671.749

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE093
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Grizzly Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422724.295	706949.737	1770.906

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	BE094
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Grizzly Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4416859.017	710921.38	2091.192

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE095
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dixie Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4420457.909	731486.362	1813.47

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	BE096
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	McKesick Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4433377.557	736407.744	1830.633

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.018
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	BE097
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Frenchman Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4418278.904	743312.329	1784.176

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.022
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	BE098
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Hales Grove

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4412559.31	435836.035	570.019

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/20/2019
RMSE Hz	0.009
RMSE Z	0.019
GPS Method	FS

PHOTOS:



Point ID	BE099
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Cahto Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4400010.178	454510.289	455.581

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	09-28-2018
RMSE Hz	0.009
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:



Point ID	BE100
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Iron Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

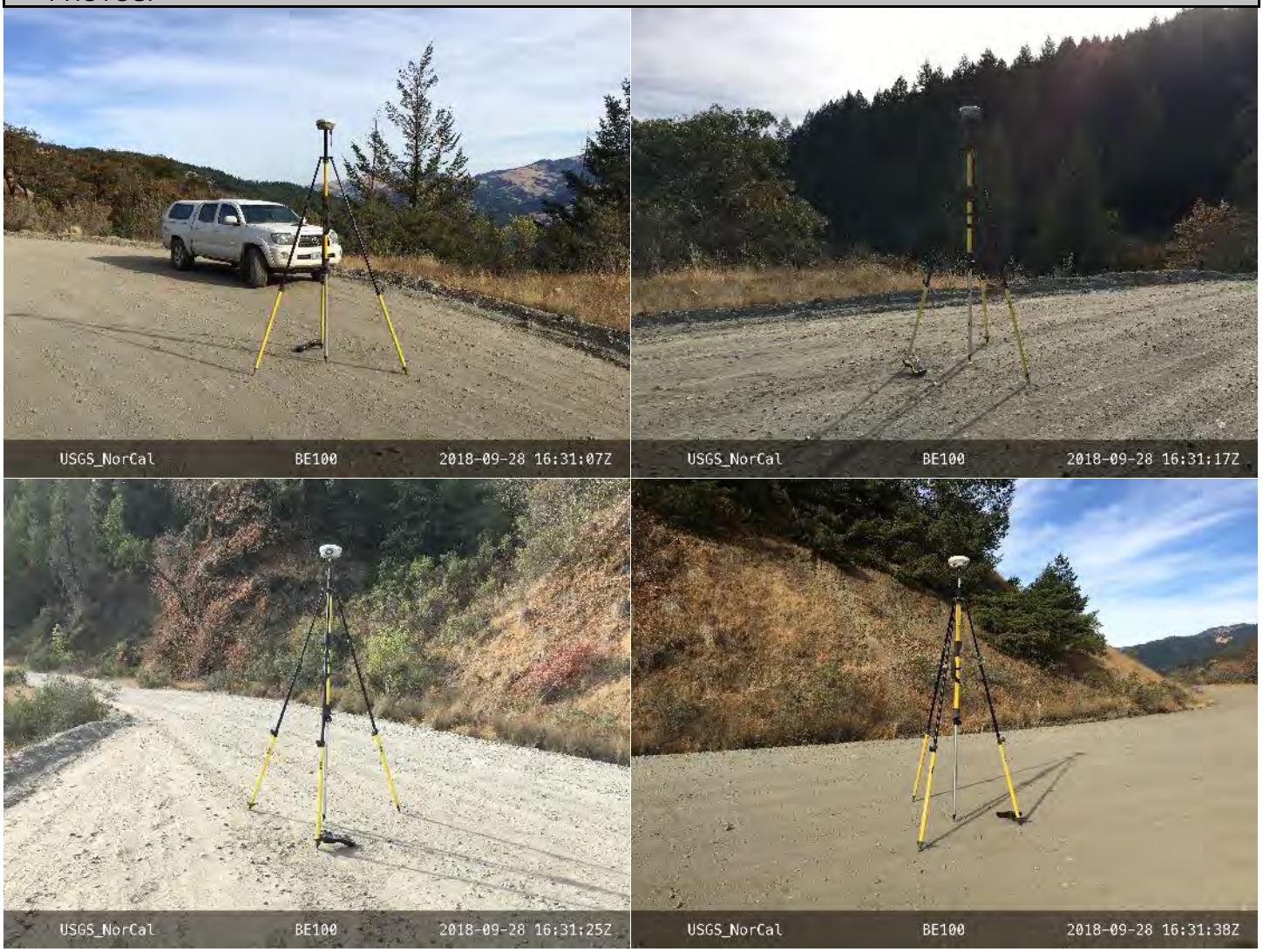
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4401500.458	465120.809	581.855

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-28-2018
RMSE Hz	0.008
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:



Point ID	BE101
Project No.	R033371
Project Name	USGS 3DEP NoCal
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4382051.718	466972.671	342.757

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/20/2019
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	FS

PHOTOS:



Point ID	BE102
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399921.148	492872.155	1166.787

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	BE103
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4396349.758	499599.221	1615.198

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.009
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:



Point ID	BE104
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4396434.723	511274.633	1970.03

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE105
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Alder Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399963.775	529046.658	1290.654

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE106
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Chrome

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397578.353	538609.396	285.394

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE107
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Julian Rocks

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398192.753	550109.894	156.43

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:









Point ID	BE108
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398808.828	564417.376	85.832

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE109
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399450.756	602806.354	73.434

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	RTK

PHOTOS:









Point ID	BE110
Project No.	R033371
Project Name	USGS 3DEP NoCal
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4400512.032	618854.283	501.515

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/5/2019
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	BE111
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397377.307	626787.467	618.515

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	RTK

PHOTOS:



Point ID	BE112
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387139.277	651619.807	1195.131

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-12-2018
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	BE113
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	American House

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

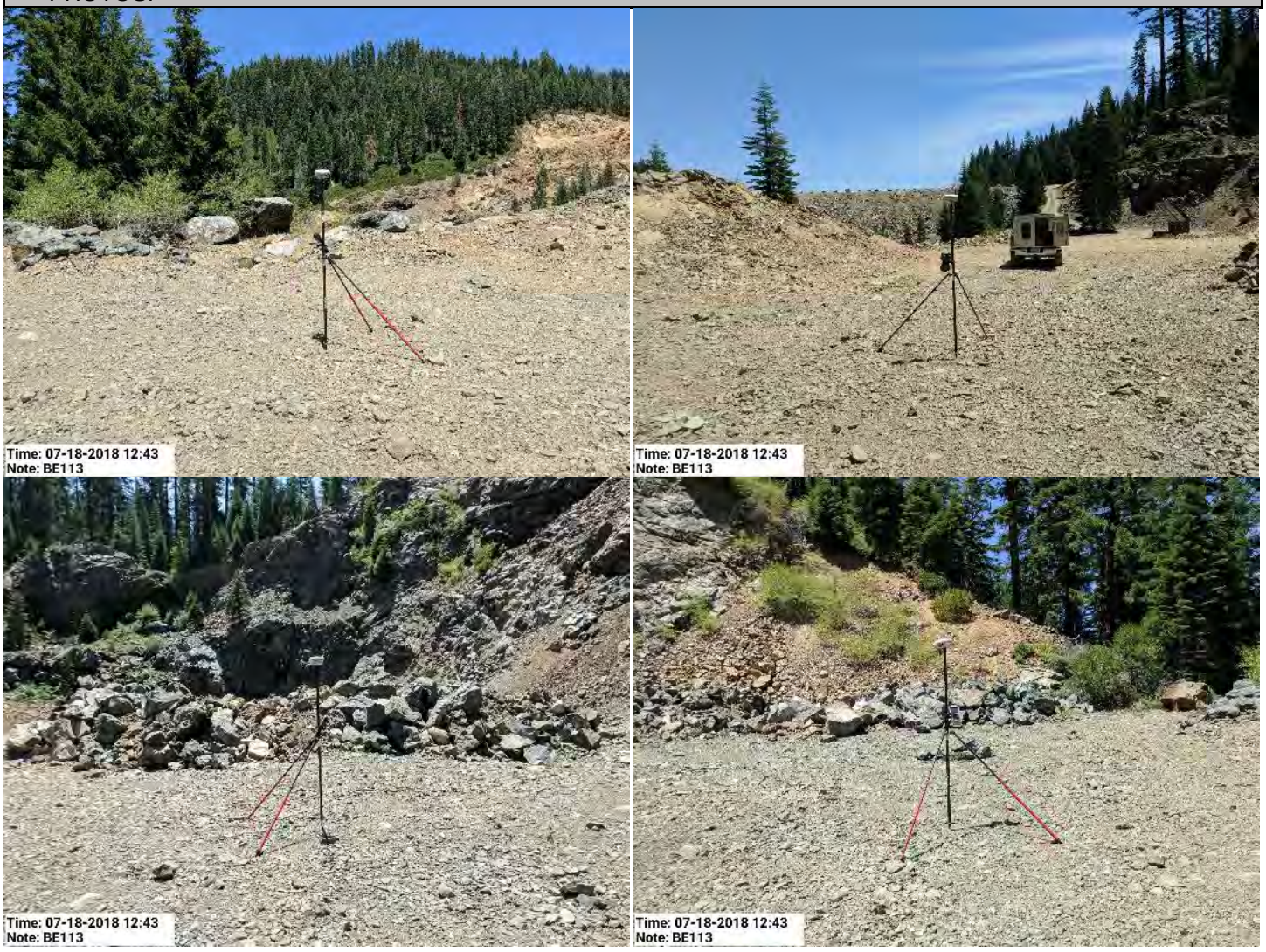
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398885.417	669624.209	1529.015

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:



Point ID	BE114
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Johnsonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

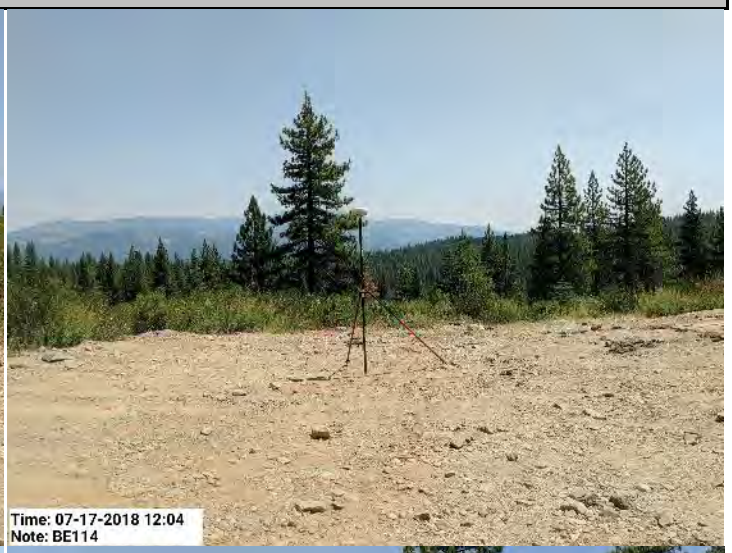
Northing	Easting	Elevation
4404642.212	697824.583	1598.041

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE115
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Humbug Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404708.364	676414.599	1726.174

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-14-2018
RMSE Hz	0.008
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	BE116
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Portola

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406312.638	723542.43	1515.101

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.025
RMSE Z	0.033
GPS Method	RTK

PHOTOS:









Point ID	BE117
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Reconnaissance Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404963.143	734009.636	1491.097

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	BE118
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Beckwourth Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408603.943	747365.23	1588.995

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.020
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	BE119
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375505.211	457801.960	692.680

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	BE120
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375781.009	467053.443	734.112

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.007
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	BE121
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Foster Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4371592.291	482214.221	410.137

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:



Point ID	BE122
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Hull Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4379080.441	504047.380	1718.688

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4913K34751
Antenna Height	2.00 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:



Point ID	BE123
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Logan Ridge

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4355755.905	565636.158	33.775

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/23/2019
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	BE124
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Elk Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4377646.510	539576.337	287.502

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-04-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE125
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Glenn

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375895.454	580277.635	30.385

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE126
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Llano Seco

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375316.601	591986.157	30.506

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.025
RMSE Z	0.029
GPS Method	RTN

PHOTOS:



Point ID	BE127
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Nelson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375408.991	602095.942	31.346

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.018
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	BE128
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Shippee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375664.004	612769.277	38.018

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	BE129
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4380584.600	634570.756	304.900

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Point ID	BE130
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375445.113	655261.940	956.527

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-13-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	BE131
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4378570.375	660842.145	1136.711

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-13-2018
RMSE Hz	0.008
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	BE132
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Alleghany

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4374222.777	686794.586	1676.948

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	BE133
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sierra City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4382403.385	702027.569	1455.792

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.012
RMSE Z	0.032
GPS Method	Fast Static

PHOTOS:









Point ID	BE134
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Haypress Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385101.900	709793.075	2233.514

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	Fast Static

PHOTOS:









Point ID	BE135
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sierraville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376259.663	735499.177	1905.933

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	RTK

PHOTOS:









Point ID	BE136
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sardine Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4377586.614	745591.026	1855.687

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	RTK

PHOTOS:









Point ID	BE137
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Burbeck

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4360288.226	464106.209	494.542

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	BE138
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359098.192	476518.087	703.175

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	BE139
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Van Arsdale Reservoir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359283.069	491558.323	463.503

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.019
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	BE140
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357422.554	532595.749	452.545

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.029
RMSE Z	0.030
GPS Method	RTK

PHOTOS:



Point ID	BE141
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Sites

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4351656.548	557052.243	88.432

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/23/2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE142
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375553.824	567535.697	43.158

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE143
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

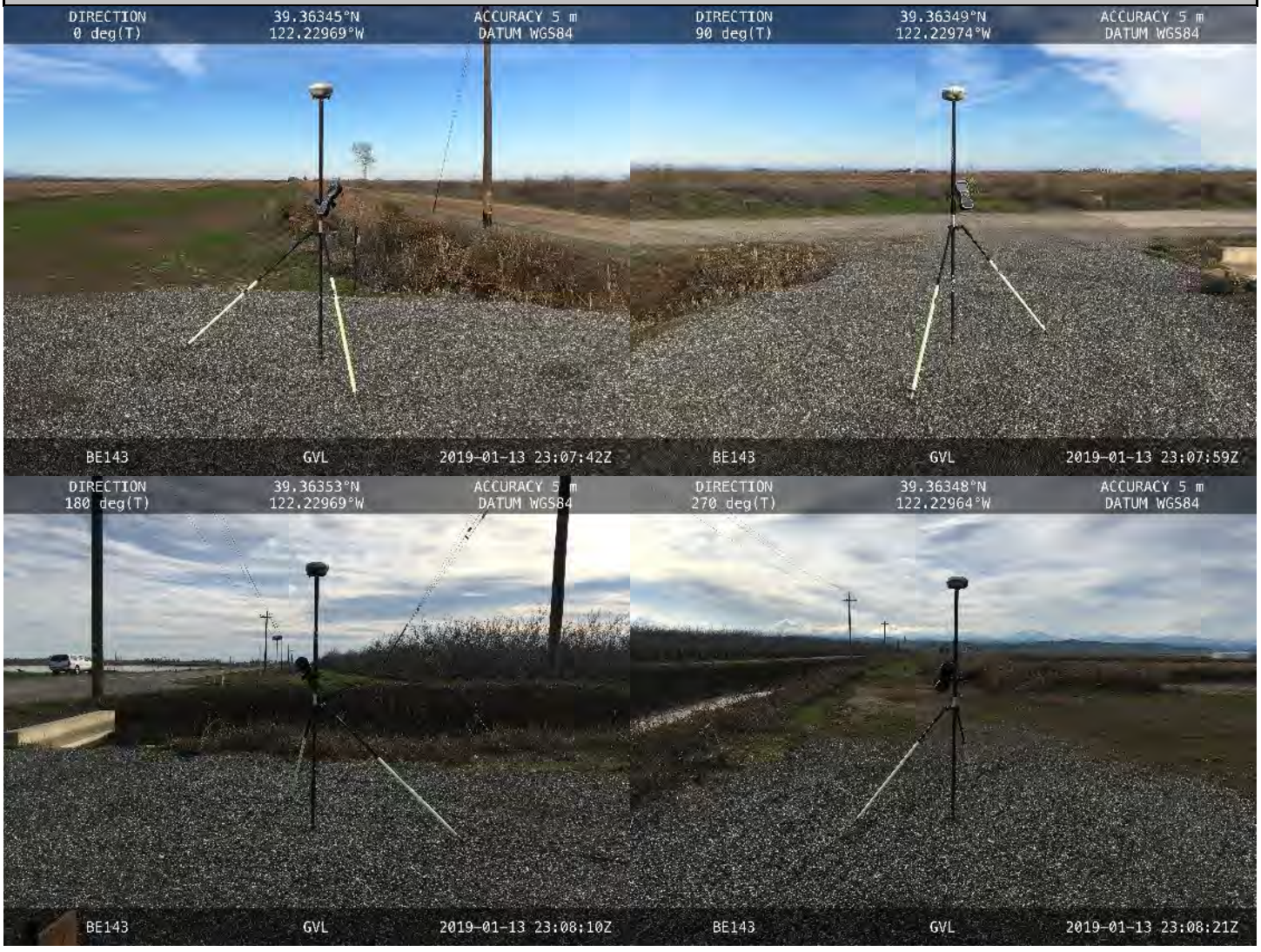
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357395.064	566362.88	30.952

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	BE144
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Sanborn Slough

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357367.588	590432.548	20.891

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	BE145
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Pennington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357628.917	601279.436	21.957

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE146
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Honcut

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358741.365	625828.703	33.777

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.018
RMSE Z	0.029
GPS Method	RTN

PHOTOS:



Point ID	BE147
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Bangor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4361114.063	637369.264	231.941

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Point ID	BE148
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Nevada City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358756.902	661859.75	577.432

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.022
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	BE149
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	North Bloomfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

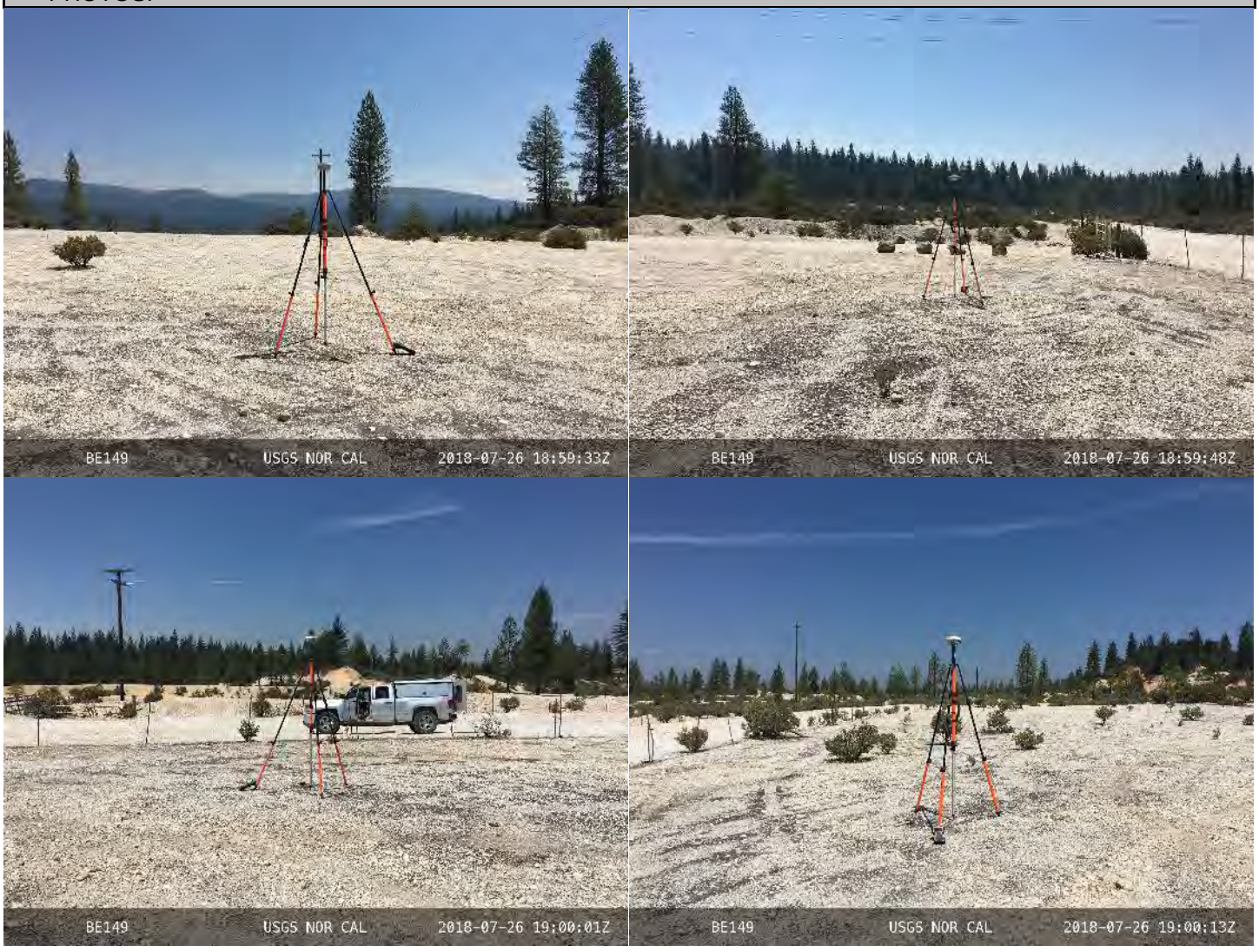
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358849.130	672776.553	873.009

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE150
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Graniteville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4362378.735	694094.371	1485.200

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	Fast STatic

PHOTOS:









Point ID	BE151
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Blue Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4353339.04	700154.386	1388.043

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE152
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Cisco Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357773.508	715102.867	2172.694

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.019
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	BE153
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Norden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4361709.712	736818.893	2069.083

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE154
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Boca

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4364661.778	756081.475	1626.43

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	BE155
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4353005.120	540199.781	384.595

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE156
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Leesville

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344318.66	545762.170	402.845

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.018
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	BE157
Project No.	R033371
Project Name	USGS 3DEP NoCal
State	California
County	Colusa
Quad	Manor Slough

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331387.287	559633.432	81.114

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	BE158
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4343707.923	565034.912	37.493

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTN

PHOTOS:



Point ID	BE159
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4347769.364	578384.398	18.059

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.020
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE160
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Meridian

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4342943.928	586616.205	22.454

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.028
RMSE Z	0.038
GPS Method	RTN

PHOTOS:



Point ID	BE161
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Meridian

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344908.335	595712.203	19.643

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	BE162
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4341688.570	610639.174	20.338

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE163
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344637.963	617358.077	23.174

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.018
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	BE164
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Dutch Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4346124.629	685610.428	1251.703

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	BE165
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Dutch Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4340789.352	692454.538	1137.179

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE166
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4339407.345	705637.867	1642.178

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE167
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4338930.049	715302.518	1959.105

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	RTK

PHOTOS:







Point ID	BE168
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Leesville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334424.896	544960.034	664.277

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-30-2018
RMSE Hz	0.002
RMSE Z	0.004
GPS Method	STATIC

PHOTOS:



Point ID	BE169
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Manor Slough

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333583.275	555799.952	154.393

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-30-2018
RMSE Hz	0.011
RMSE Z	0.016
GPS Method	STATIC

PHOTOS:









Point ID	BE170
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

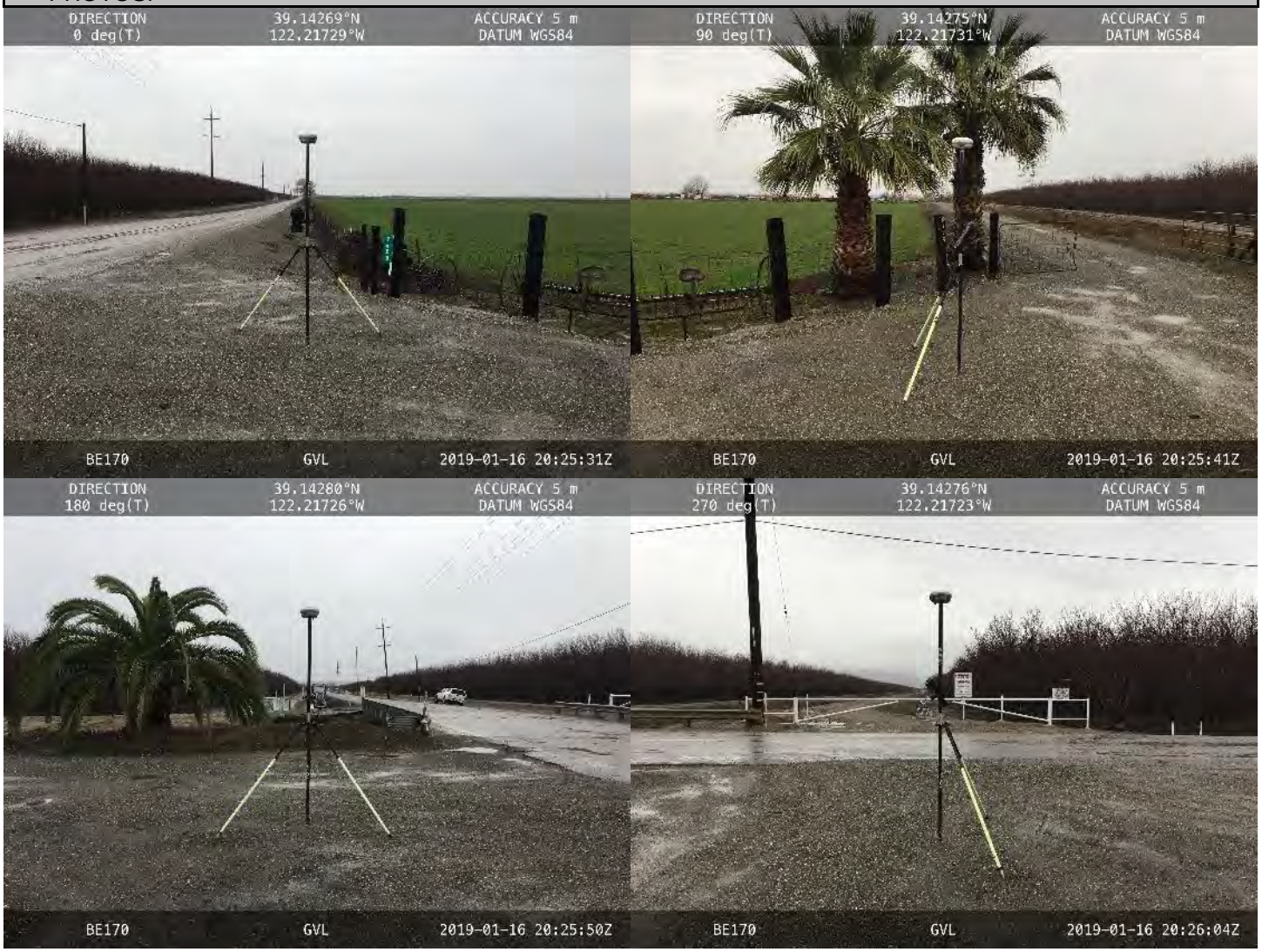
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4332907.128	567646.571	37.106

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	BE171
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334819.060	572986.348	24.481

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.021
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	BE172
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331774.091	604144.516	18.35

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	BE173
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Rough And Ready

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4335950.998	654853.206	446.681

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE174
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Colfax

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4330046.333	679523.070	357.598

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE175
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Dutch Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331755.888	686003.116	907.054

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE176
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Westville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334763.550	703207.741	1511.412

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.023
RMSE Z	0.036
GPS Method	RTK

PHOTOS:









]

Point ID	BE177
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334791.263	715043.882	1958.200

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:









Point ID	BE178
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lake
Quad	Wilbur Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

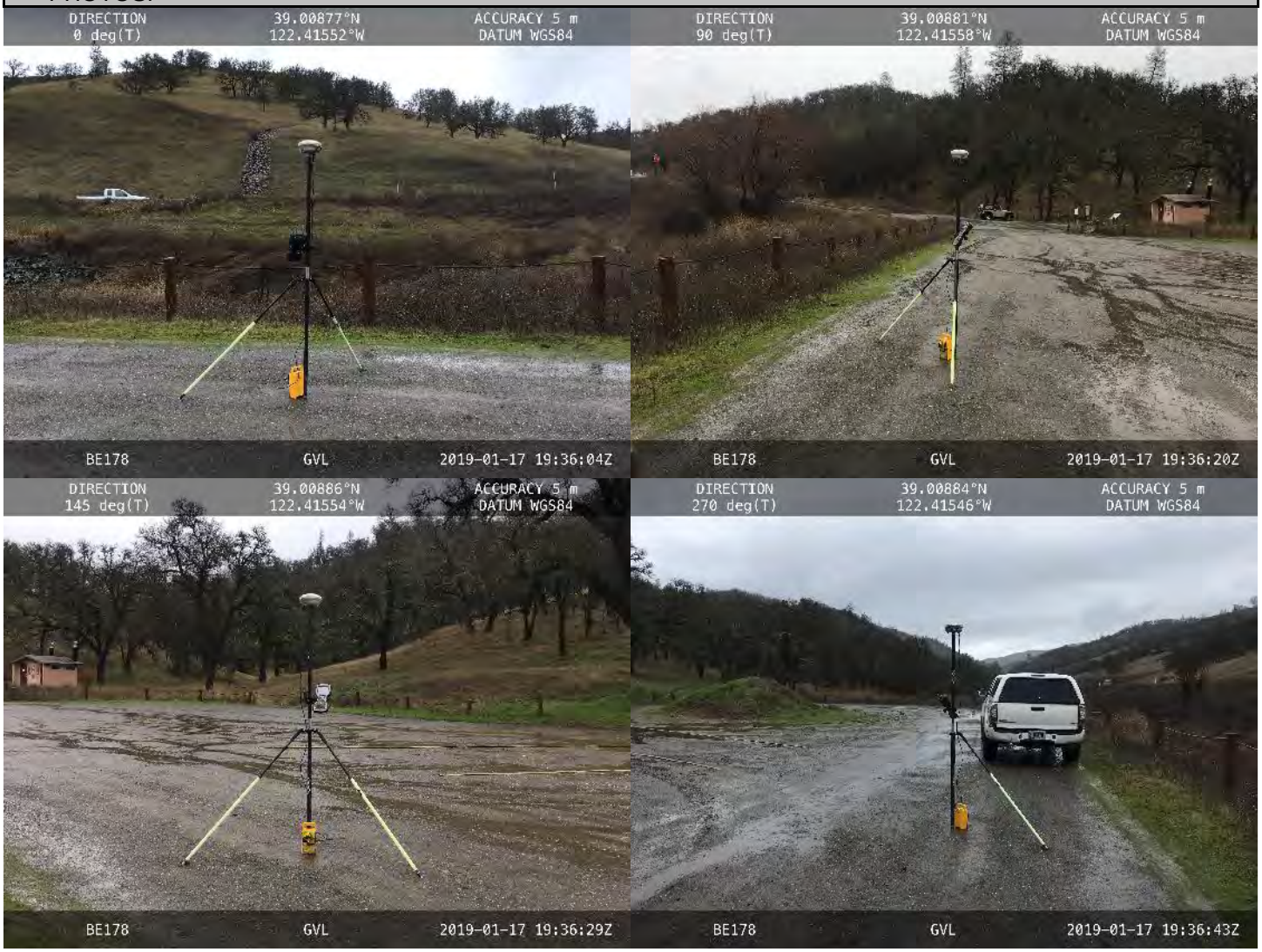
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4317915.900	550608.065	527.66

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	BE179
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Cortina Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4319805.280	574195.920	87.903

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	BE180
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Arbuckle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4319791.727	580985.598	39.594

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	BE181
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Arbuckle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4317716.536	586002.736	21.028

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	BE182
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Kirkville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4315476.895	606791.211	9.126

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	BE183
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter Causeway

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4314344.731	615053.498	9.698

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE184
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Tunnel Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4312987.752	697400.089	1042.265

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	2.25 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	BE185
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Devil Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4308994.453	714027.864	1451.245

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE186
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Glascock Mtn

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4316775.742	555935.112	325.137

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.007
RMSE Z	0.013
GPS Method	FS

PHOTOS:



Point ID	BE187
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Guinda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4301261.524	568256.957	121.275

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	BE188
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Dunnigan

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4304119.313	589534.985	19.307

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.023
RMSE Z	0.027
GPS Method	RTN

PHOTOS:



Point ID	BE189
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Eldorado Bend

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4302887.165	602988.453	8.823

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	BE190
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Verona

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4303041.437	627905.491	11.952

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE191
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Rocklin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4303406.493	653015.064	162.219

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.022
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	BE192
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Salt Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4318335.165	555293.841	325.598

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	FS

PHOTOS:



Point ID	BE193
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Guinda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289819.899	573585.526	91.630

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	BE194
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Zamora

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289684.912	590695.099	62.405

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.022
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	BE195
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Eldorado Bend

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290814.34	600756.755	18.996

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE196
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Grays Bend

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289682.323	613689.621	11.477

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	BE197
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Verona

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290095.472	626408.730	6.372

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE198
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Pleasant Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290476.735	638550.442	30.428

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	BE199
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Calistoga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4273249.806	535006.956	158.276

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.022
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	BE200
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lake
Quad	Detert Reservoir

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4286147.745	539789.725	333.22

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE201
Project No.	33371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Aetna Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4277298.823	554178.334	186.149

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.025
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	BE202
Project No.	33371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Chiles Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4275329.680	561802.068	141.951

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.027
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	BE203
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Esparto

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4280778.420	582539.622	81.703

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	BE204
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Madison

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4281514.485	589703.593	45.840

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	BE205
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Grays Bend

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4278456.955	616056.616	11.094

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	BE206
Project No.	33371
Project Name	USGS NoCal
State	California
County	Sonoma
Quad	Calistoga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4267375.219	533815.089	329.172

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.018
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	BE207
Project No.	33371
Project Name	USGS NoCal
State	California
County	Napa
Quad	Chiles Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4267613.938	555422.033	296.977

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE208
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Lake Berryessa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

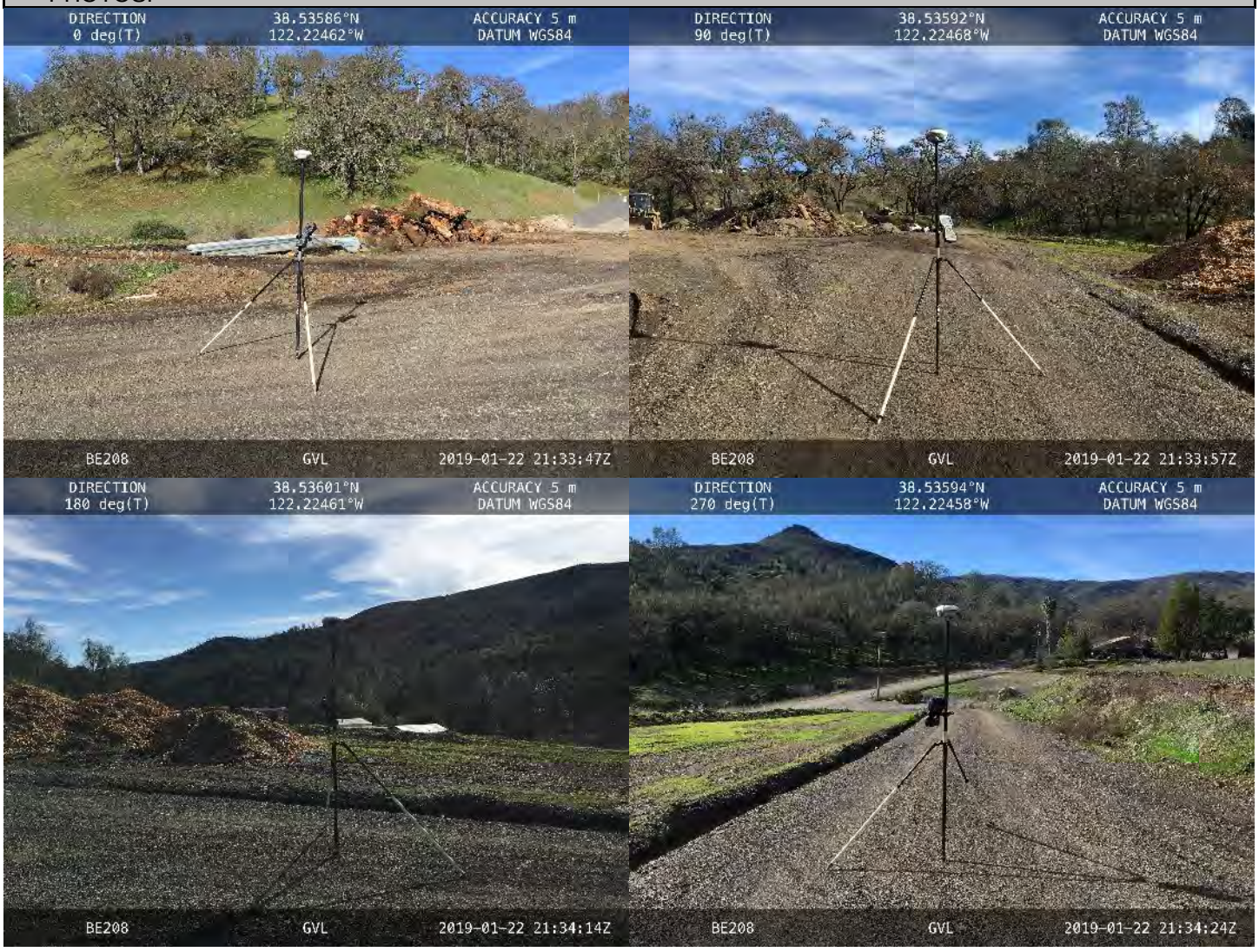
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4265568.566	567576.866	183.333

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.024
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	BE209
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Winters

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

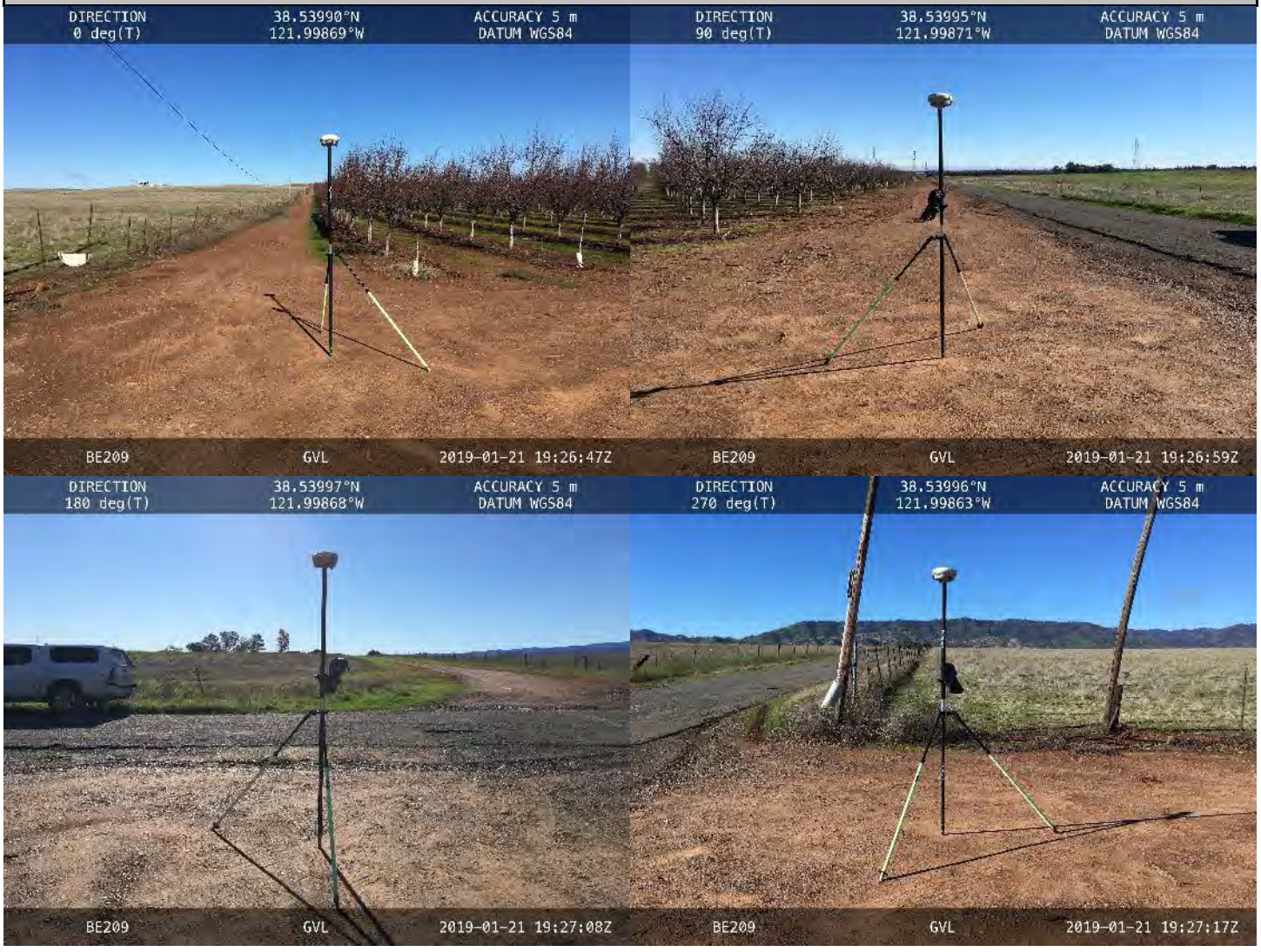
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4266202.497	587267.711	58.261

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	BE210
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Merritt

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4267160.466	598366.910	29.298

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.023
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	BE211
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Davis

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4268514.209	616376.365	7.019

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	BE212
Project No.	33371
Project Name	USGS NoCal
State	California
County	Napa
Quad	Rutherford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4256481.036	550228.425	53.965

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.019
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	BE213
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Chiles Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

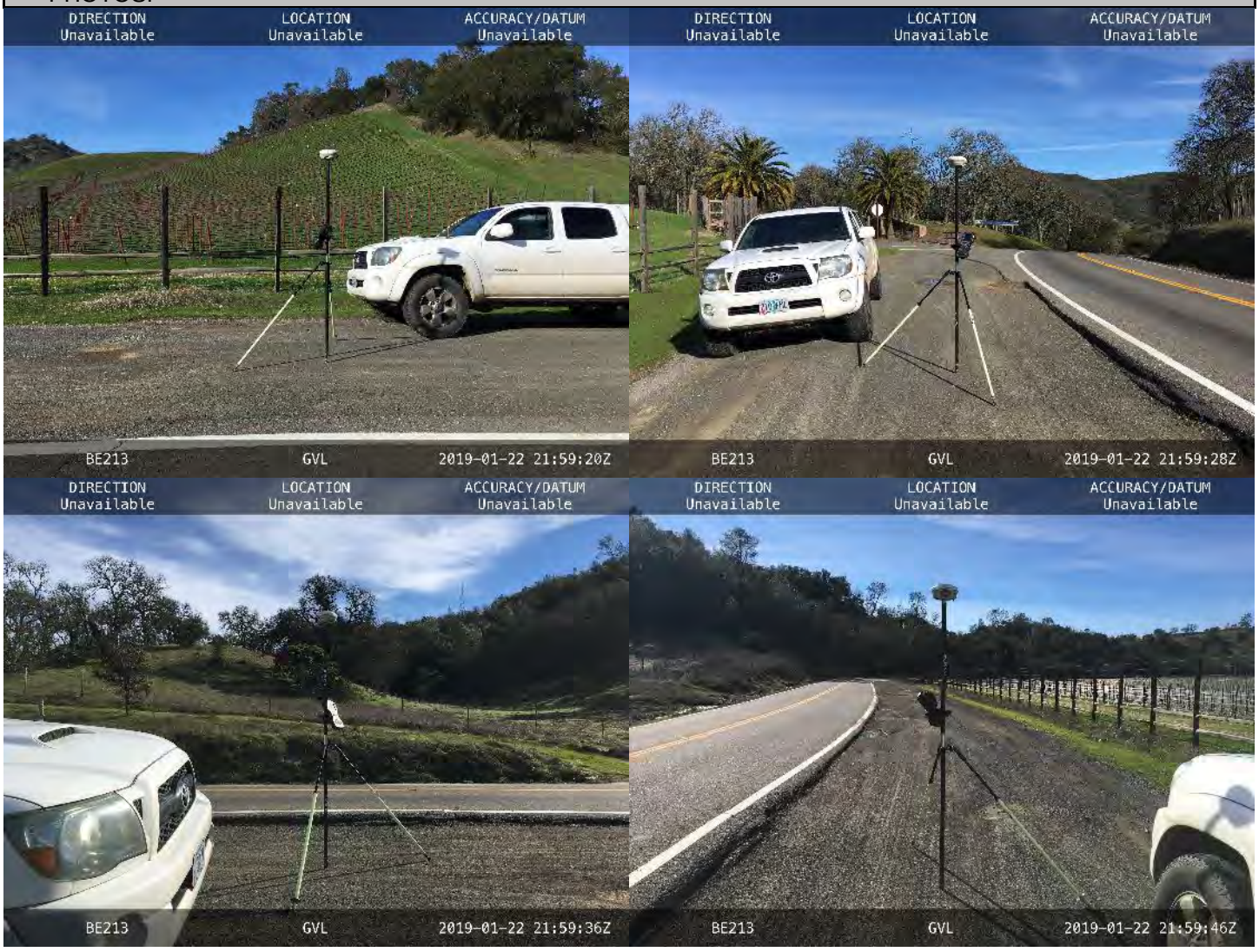
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4262515.290	563421.329	303.162

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	BE214
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Cappell Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4255859.425	574000.863	189.454

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE215
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Mount Vaca

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4255685.422	586534.941	90.986

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	BE216
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dixon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4256041.951	599585.167	22.984

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	BE217
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Solano
County	Salano
Quad	Saxon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4256781.28	612316.388	9.316

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	BE218
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Yountville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4250043.532	555913.559	28.839

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	BE218A
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4242425.56	557871.949	38.662

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-04-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	BE219
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Mount George

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4243934.518	576572.496	85.901

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-29-2019
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	BE220
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dozier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4246231.498	602414.414	12.130

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	BE221
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4240953.162	506763.890	7.732

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE222
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4238728.649	510550.302	47.743

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE223
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233935.461	556292.422	55.512

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	BE224
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233850.567	563982.959	13.976

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	BE225
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Birds Landing

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233323.684	604545.730	5.871

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	BE226
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226808.557	504025.555	92.786

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE227
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4223388.653	516293.783	71.647

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	FastStatic

PHOTOS:









Point ID	BE228
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225320.319	528828.621	58.284

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.006
RMSE Z	0.012
GPS Method	FastStatic

PHOTOS:









Point ID	BE229
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Cordelia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226186.028	575223.588	20.161

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	BE230
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Denverton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225510.036	597279.372	13.341

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	BE231
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Drakes Bay

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4216078.231	504921.611	32.754

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE232
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4214983.533	516681.984	30.978

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE233
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4211187.304	533124.175	201.498

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019	
RMSE Hz	0.015	
RMSE Z	0.020	
GPS Method	RTK	

PHOTOS:









Point ID	BE234
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Drakes Bay OE S

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205388.711	500860.592	102.91

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE235
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Double Point

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4205396.286	521555.140	63.031

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.018
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE236
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4206583.017	531975.195	125.928

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE237
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4196779.118	524586.821	74.637

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.022
RMSE Z	0.032
GPS Method	RTK

PHOTOS:









Point ID	BE238
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Bonita

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4186638.384	541726.956	64.806

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE239
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Quentin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4192452.024	547618.881	4.012

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE240
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Briones Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4195019.762	569426.653	130.552

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	BE241
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Clayton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4198477.482	595011.618	190.029

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE242
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Oakland East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4191215.520	572371.724	187.167

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.019
RMSE Z	0.034
GPS Method	RTK

PHOTOS:



Point ID	BE243
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Alameda
Quad	Las Trampas Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4189943.446	594566.665	540.941

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE244
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Alameda
Quad	Las Trampas Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4180589.713	587501.968	220.57

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.025
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	BE245
Project No.	R033371.00
Project Name	USGS 3DEP NoCal
State	California
County	Mendocino
Quad	Lincoln Ridge

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4392426.359	443583.257	455.123

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/19/2019
RMSE Hz	0.011
RMSE Z	0.024
GPS Method	FS

PHOTOS:









Point ID	BE246
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Laytonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389324.052	459116.368	513.12

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.017
RMSE Z	0.027
GPS Method	RTK

PHOTOS:



Point ID	BE247
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Dos Rios

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

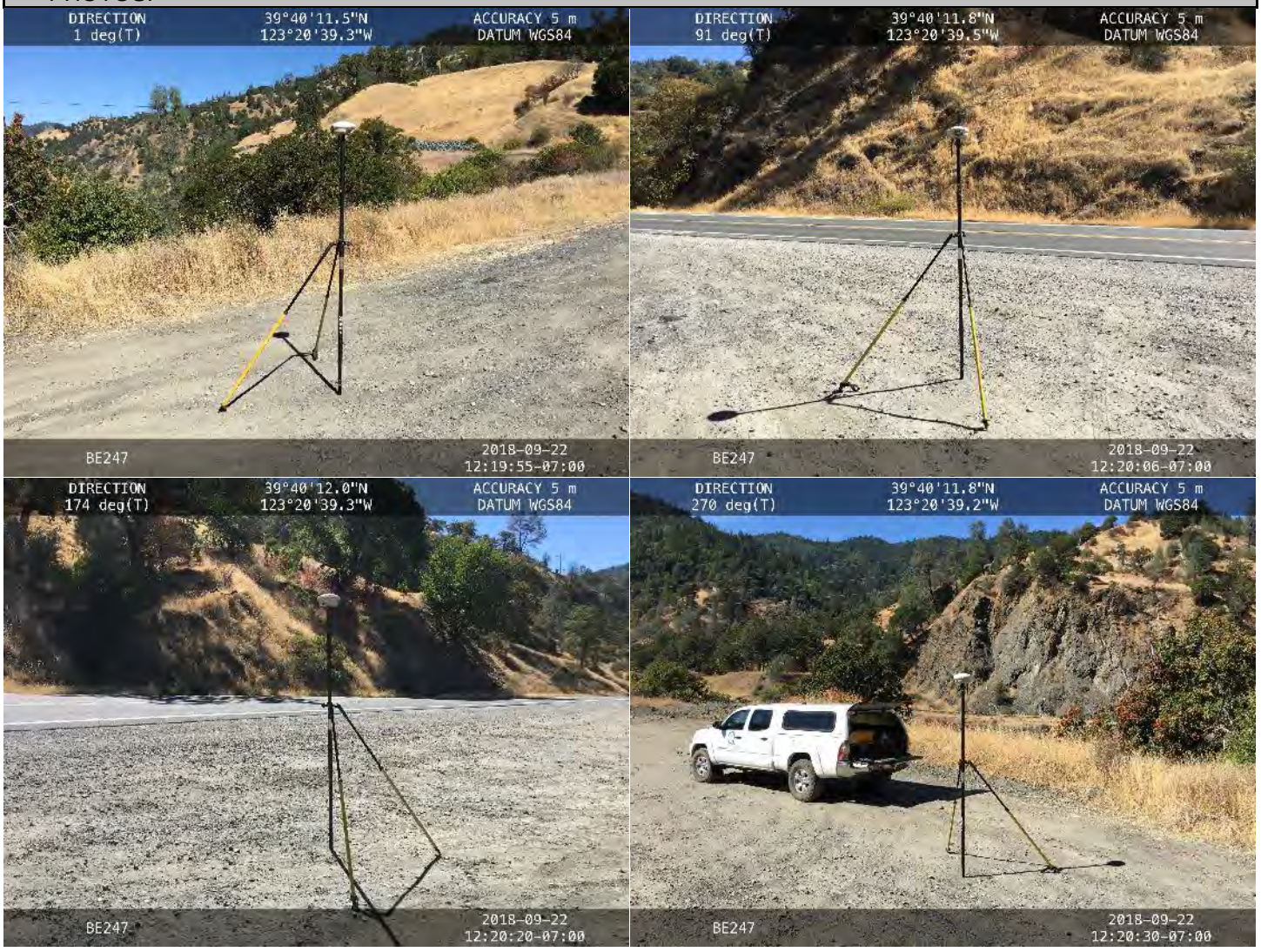
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4391177.488	470472.916	316.549

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	FS

PHOTOS:



Point ID	BE248
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Dos Rios

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4395785.481	476617.971	604.482

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	BE249
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4366553.923	473142.256	622.242

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/21/2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	FS

PHOTOS:









Point ID	BE250
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389364.733	514837.003	1839.919

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.007
RMSE Z	0.015
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE251
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Almanor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4454074.982	653057.467	1390.133

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.009
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	BE252
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Butte Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4437224.159	622165.978	1329.031

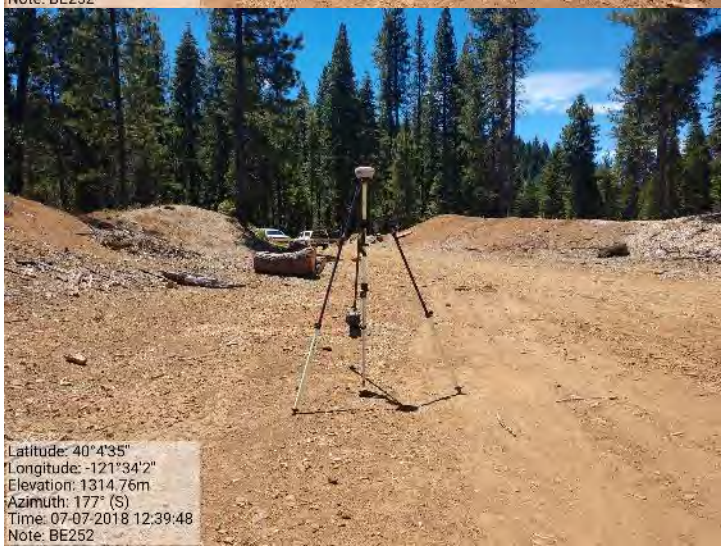
Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.014
RMSE Z	0.025
GPS Method	FastStatic

PHOTOS:









Point ID	BE253
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406761.195	644757.209	1556.959

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	FS

PHOTOS:



Point ID	BE254
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blairsden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4403521.665	708378.902	1404.743

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.018
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	BE255
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Gold Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4313774.463	659062.390	300.118

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE256
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Raglin Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4434009.932	525161.845	1400.863

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-24-2018
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:



Point ID	BE257
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Swim Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443363.634	488764.904	1692.248

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.008
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:



Point ID	BE701
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Rainbow Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4581181.838	593145.960	1391.845

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	FS

PHOTOS:



Point ID	BE702
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4580948.015	602709.613	1394.219

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	FS

PHOTOS:



Point ID	BE703
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4577657.304	609036.889	1338.448

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	BE704
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576043.646	603740.528	1392.458

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	BE705
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576618.636	610018.785	1321.220

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.005
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	BE706
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576658.709	617863.743	1186.182

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE707
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Kinyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4577801.615	594067.537	1693.662

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.013
RMSE Z	0.025
GPS Method	FS

PHOTOS:



Point ID	BE708
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4570755.570	599523.589	1230.430

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:



Point ID	BE709
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568190.500	597103.790	1212.583

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE710
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

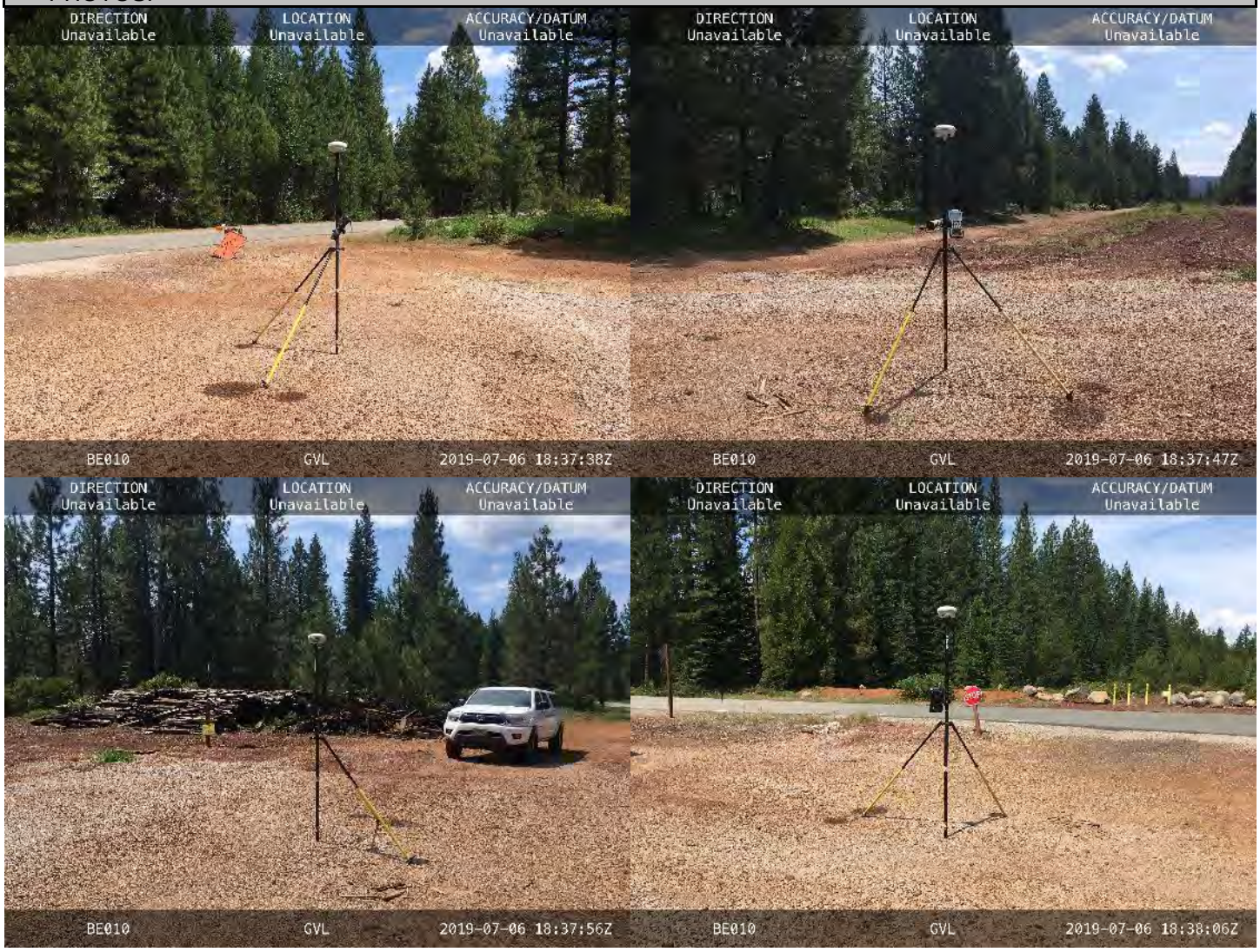
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4567991.449	598747.235	1211.037

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.003
RMSE Z	0.007
GPS Method	FS

PHOTOS:



Point ID	BE711
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Dead Horse Summit

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4566413.211	600163.665	1218.358

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.003
RMSE Z	0.007
GPS Method	FS

PHOTOS:



Point ID	BE712
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4572115.60	608353.472	1410.973

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE713
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4572248.259	604268.624	1412.189

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE714
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Dead Horse Summit

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4566122.641	602403.851	1374.942

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:



Point ID	BE715
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

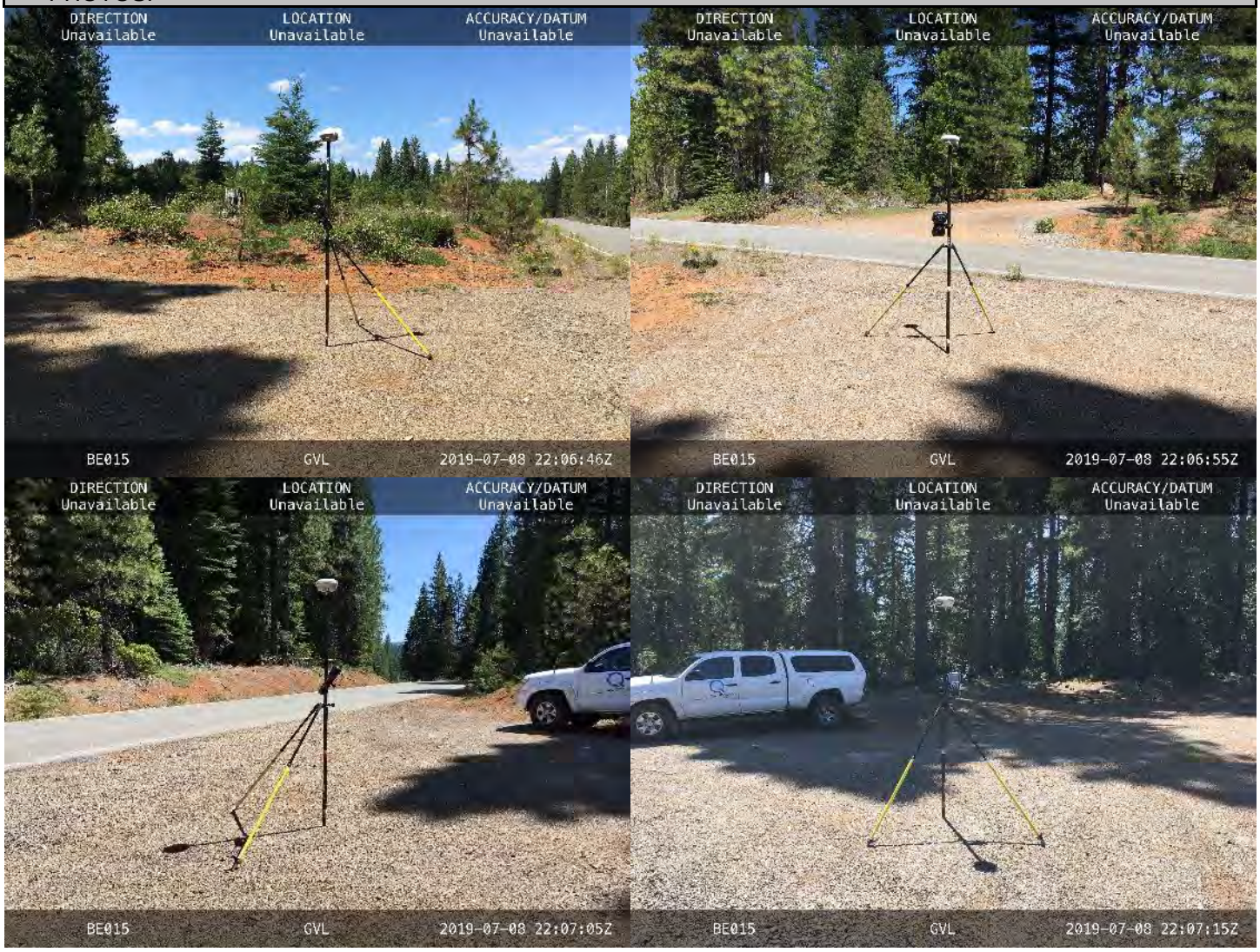
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4565642.032	609608.643	1281.434

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	BE716
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568799.930	624287.838	1140.674

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE717
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4559069.378	625108.081	1059.956

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE718
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Fall River Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4551069.831	633358.959	1008.97

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTN

PHOTOS:



Point ID	BE719
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Fall River Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4550204.865	624765.165	1012.519

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTN

PHOTOS:



Point ID	BE720
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4564584.519	625464.041	1116.941

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:



Point ID	BE721
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Modoc
Quad	Timbered Crater

	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
X	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4567291.427	633134.336	1181.844

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	RTN

PHOTOS:



Point ID	BE722
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4579641.437	601606.439	1411.117

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	FS

PHOTOS:



Point ID	BE723
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4573818.850	610262.036	1299.669

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:



Point ID	BE724
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4561197.085	619765.257	1116.498

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/12/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Point ID	BE725
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Modoc
Quad	Timbered Crater

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4563851.523	635982.311	1095.320

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTN

PHOTOS:



Point ID	BE726
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4571286.398	622545.456	1163.904

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/12/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	BE727
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

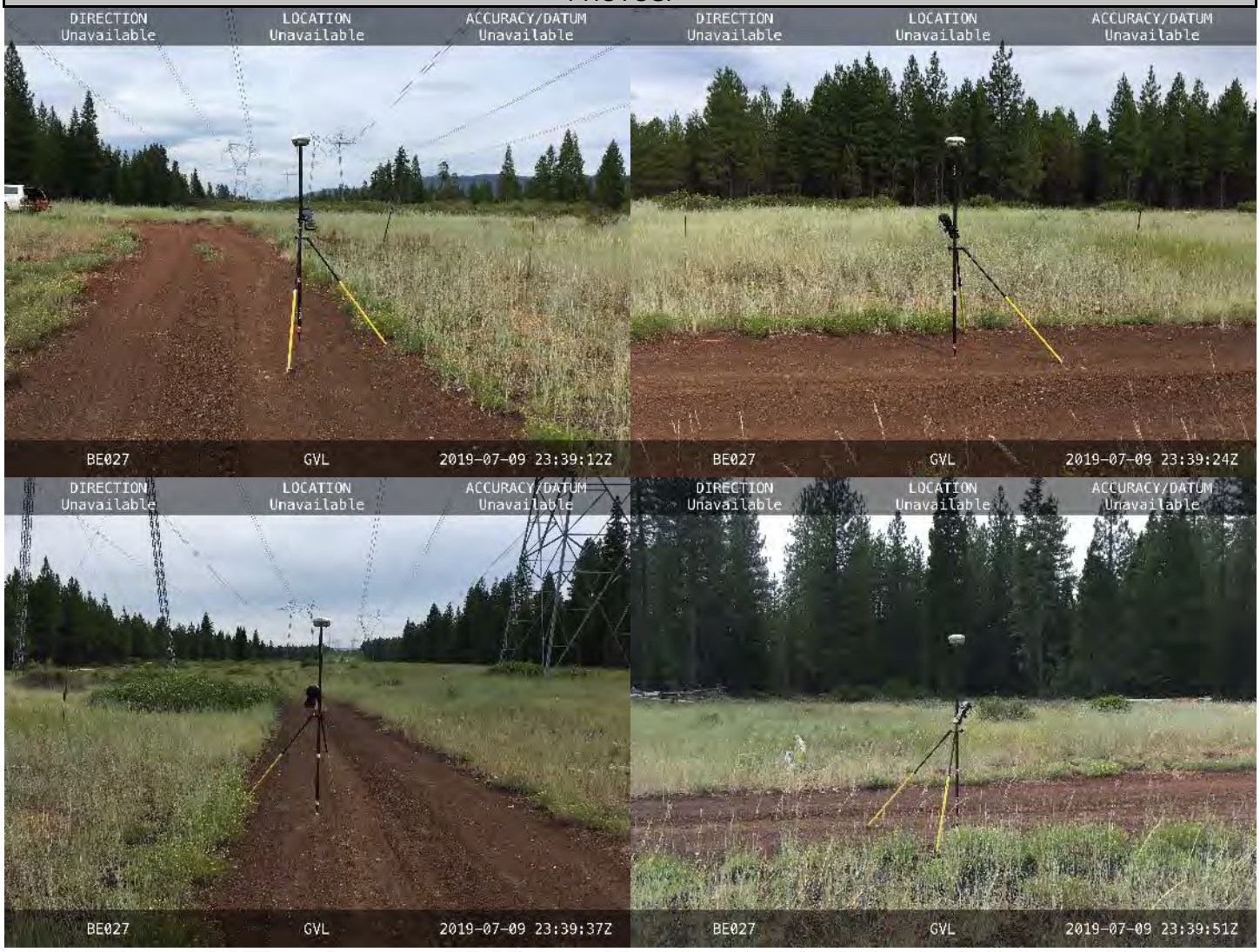
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4569356.094	616824.930	1163.612

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FS

PHOTOS:



Point ID	BE728
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Day

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4553285.831	641037.662	1099.735

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/10/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	FS

PHOTOS:



Point ID	BE729
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Dana

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4551115.971	624653.830	1010.832

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.011
RMSE Z	0.016
GPS Method	RTN

PHOTOS:



Point ID	BE730
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4562984.108	609065.665	1279.985

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-06-2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Point ID	BE731
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576598.953	598178.749	1487.872

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	FS

PHOTOS:



Point ID	BE732
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Fall River Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4550736.291	628258.58	1009.749

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-06-2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:



Point ID	BE733
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4562950.255	621005.155	1117.726

Operator	Aaron Olson
Receiver Model	Trimble R8
Receiver S/N	R8_9860
Antenna Height	2.250m

Date (MM-DD-YYYY)	07/12/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Point ID	BE734
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Dana

	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
X	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4553679.438	623736.981	1019.985

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-06-2019
RMSE Hz	0.013
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Point ID	BE801
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
629787.688	4409818.667	1118.178

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.022
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	BE802
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
637370.954	4411969.376	450.538

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	BE803
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
621569.125	4408107.89	693.923

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	BE087
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407965.459	629690.931	1005.033

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	BE805
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
632669.692	4406188.357	459.204

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.048
RMSE Z	0.040
GPS Method	Fast Static

PHOTOS:









Point ID	BE806
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise West

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
615313.082	4405453.778	221.300

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/30/2019
RMSE Hz	0.023
RMSE Z	0.032
GPS Method	RTK

PHOTOS:



Point ID	BE807
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
605869.606	4399282.674	102.961

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.022
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	BE808
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
630097.806	4401773.214	652.597

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:



Point ID	BE809
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
628590.076	4405771.989	693.819

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	BE810
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
608811.442	4391597.826	84.374

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.021
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	BE811
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
614943.407	4390498.183	96.037

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/28/2019
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	BE111
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397377.307	626787.467	618.515

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	BE813
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Berry Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
630133.450	4396938.535	666.957

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	BE814
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
613775.572	4396373.487	297.121

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	BE815
Project No.	R033371 C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
625450.703	4389536.767	404.385

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/31/2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	BE816
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
626469.820	4395153.895	505.674

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	BE817
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
619050.509	4397009.000	391.541

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	BE818
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise West

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
613679.160	4403272.700	180.566

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.027
RMSE Z	0.031
GPS Method	RTK

PHOTOS:









Point ID	BE819
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
622369.438	4394326.218	379.979

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	RTK

PHOTOS:



Point ID	BE820
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
623068.729	4412930.341	824.364

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:









Point ID	BE821
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
611634.587	4397611.678	292.218

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE221
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4240953.162	506763.89	7.732

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE222
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4238728.649	510550.302	47.743

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	BE901
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4239413.935	503986.816	23.919

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.019
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	BE902
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Two Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4239196.400	511106.206	61.562

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	BE903
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226808.557	504025.555	92.786

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE904
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4223388.653	516293.783	71.647

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	FastStatic

PHOTOS:









Point ID	BE905
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225320.319	528828.621	58.284

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.006
RMSE Z	0.012
GPS Method	FastStatic

PHOTOS:









Point ID	BE906
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Quentin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4192452.024	547618.881	4.012

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE907
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Drakes Bay

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4216078.231	504921.611	32.754

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE908
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4214983.533	516681.984	30.978

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE909
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4211187.304	533124.175	201.498

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE910
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Drakes Bay OE S

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205388.711	500860.592	102.91

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE911
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Double Point

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205396.286	521555.140	63.031

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.018
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	BE912
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4206583.017	531975.195	125.928

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE913
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4196779.118	524586.821	74.637

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.022
RMSE Z	0.032
GPS Method	RTK

PHOTOS:









Point ID	BE914
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Bonita

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4186638.384	541726.956	64.806

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	BE915
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4235056.521	506349.522	5.755

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.027
RMSE Z	0.036
GPS Method	RTK

PHOTOS:









Point ID	BE916
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tamales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233163.947	502947.138	11.157

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.019
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE917
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tamales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233486.405	504897.964	143.470

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.020
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	BE918
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tamales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4231925.242	502680.151	2.600

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.022
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	BE919
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Two Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4236336.745	511102.914	18.292

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

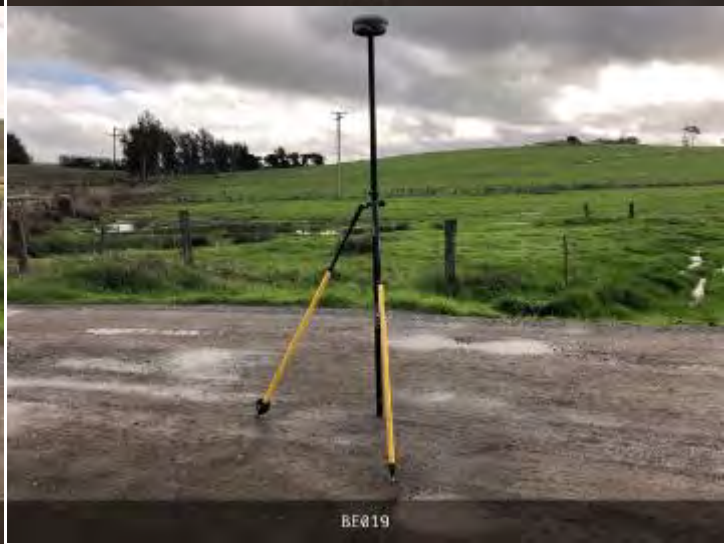
Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	BE920
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4238536.247	504521.226	91.976

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.028
RMSE Z	0.036
GPS Method	RTK

PHOTOS:









Point ID	BE921
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4229499.115	516310.731	50.227

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.007
RMSE Z	0.017
GPS Method	FastStatic

PHOTOS:









Point ID	BE922
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233079.193	508128.297	38.025

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-09-2019
RMSE Hz	0.022
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	BE924
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Petaluma

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4222410.257	526013.854	126.971

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FastStatic

PHOTOS:









Point ID	BE925
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4218721.407	512843.043	4.613

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-09-2019
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	BE926
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4210715.705	518477.665	14.306

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Urban Area Point Log Sheets

Point ID	UA001
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Myers Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

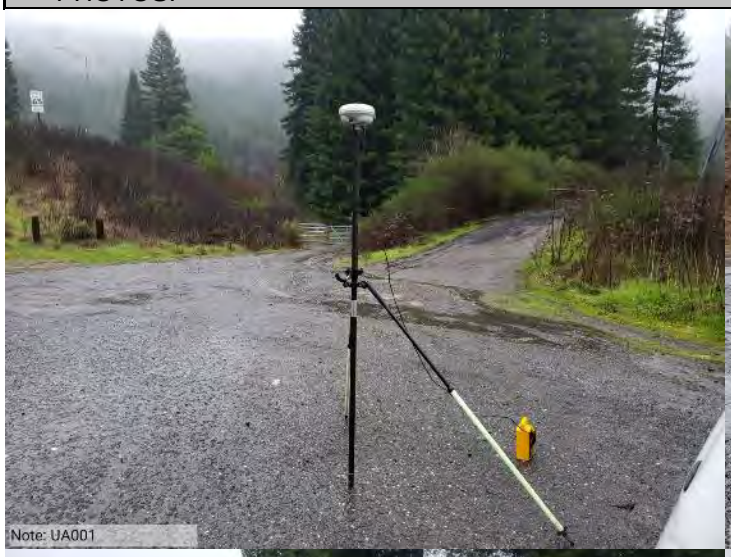
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4457660.942	425980.236	62.966

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	UA002
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Garberville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4439349.620	432431.701	164.851

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



Point ID	UA003
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Red Bluff East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4450392.965	567222.862	85.999

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA004
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Red Bluff East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4447075.463	566149.380	81.264

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	UA005
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chester

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4461489.611	649600.133	1380.046

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	UA006
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Flournoy

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

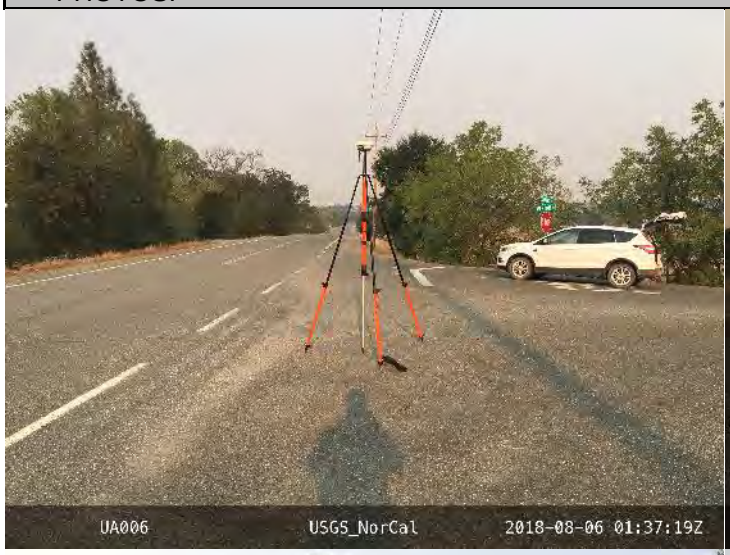
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

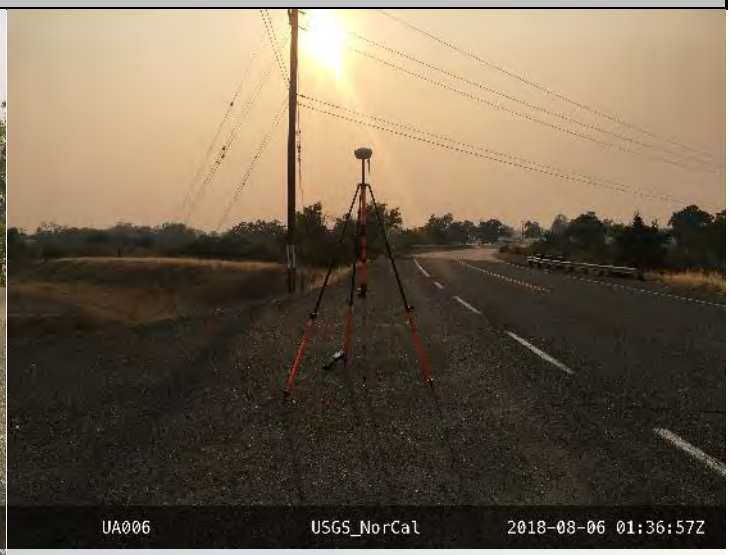
Northing	Easting	Elevation
4418956.953	548139.499	175.398

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.014
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:









Point ID	UA007
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Corning

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4417464.556	568451.644	83.99

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	UA008
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Richardson Springs NW

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4415975.295	586739.601	63.837

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	UA009
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Paradise West

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408520.199	610308.425	517.314

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/5/2019
RMSE Hz	0.020
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	UA010
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Kirkwood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

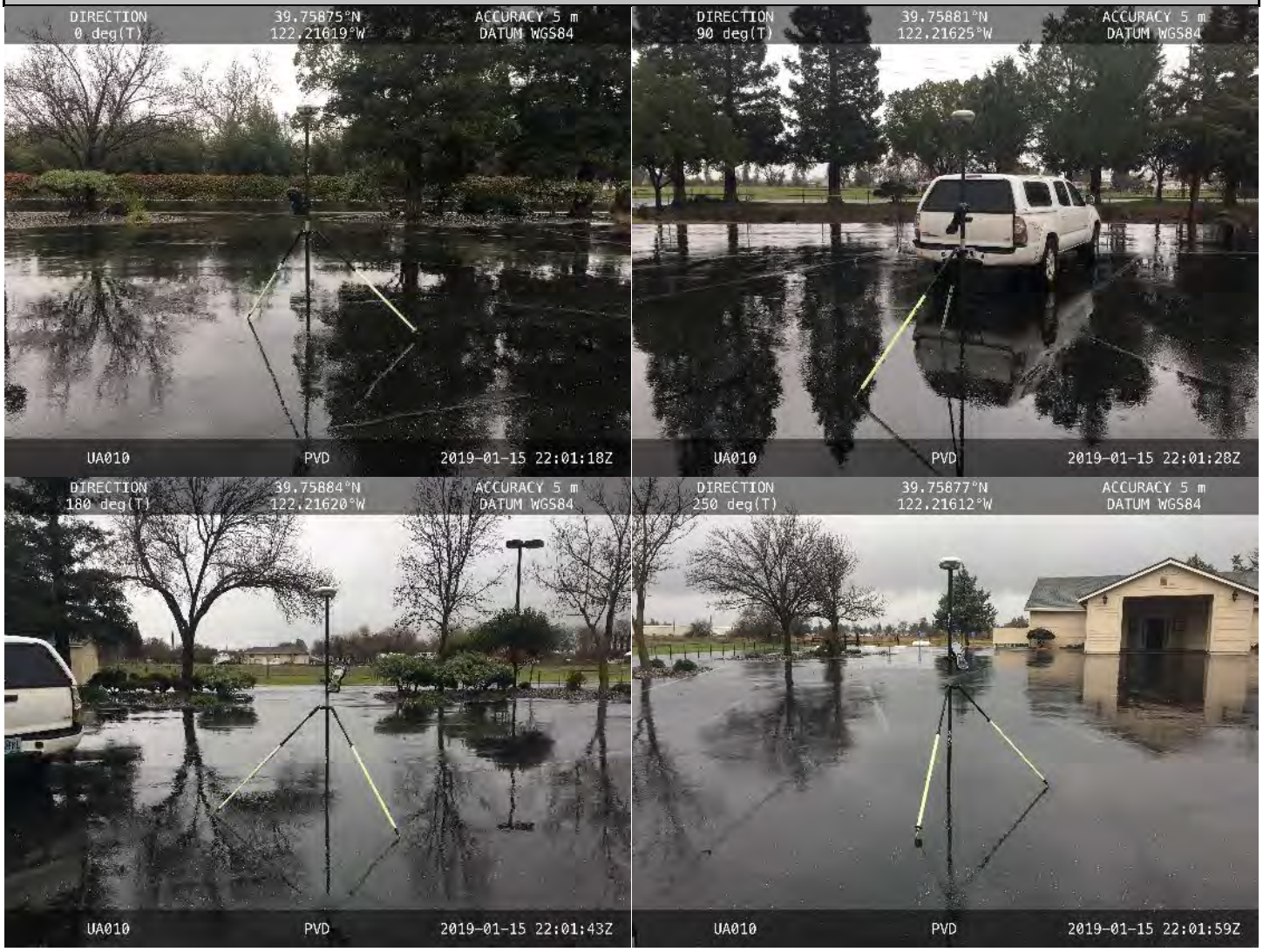
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4401278.911	567143.530	83.273

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	UA011
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

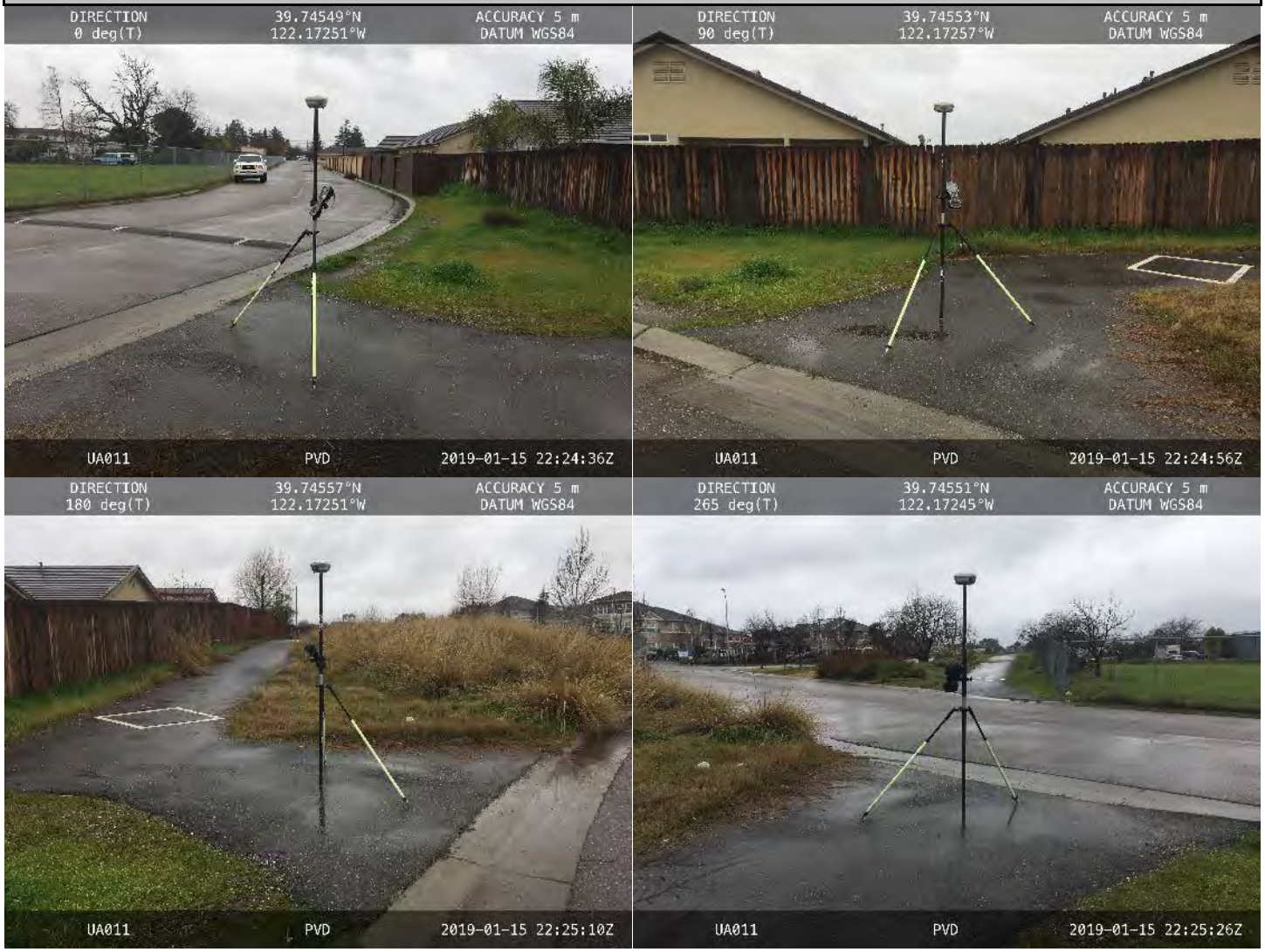
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399841.439	570897.471	74.065

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	UA012
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

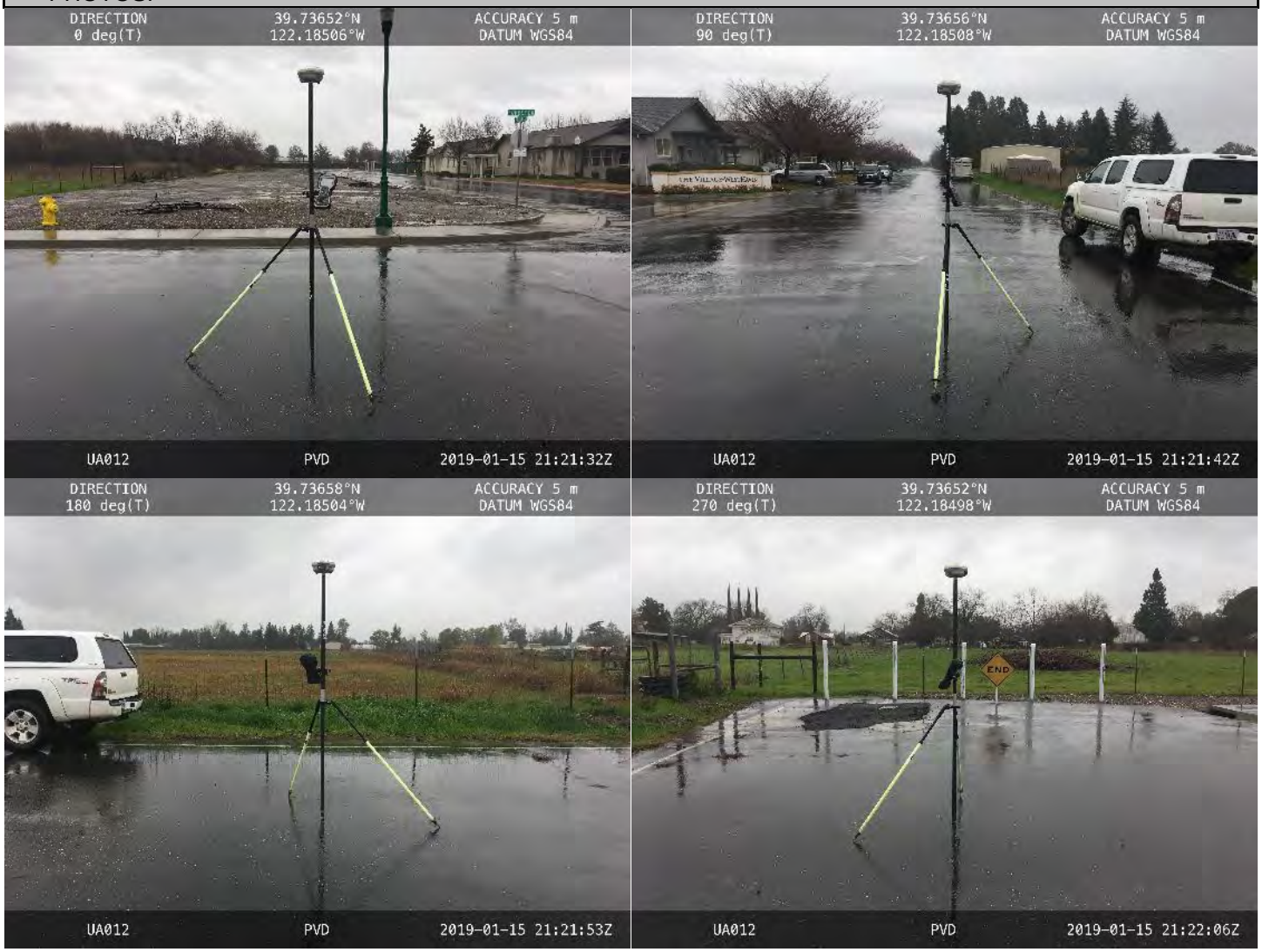
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398829.912	569832.929	74.324

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.024
RMSE Z	0.033
GPS Method	RTN

PHOTOS:



Point ID	UA013
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Ord Ferry

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398805.299	595906.619	50.475

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:









Point ID	UA014
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399894.976	602142.813	71.833

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	RTK

PHOTOS:









Point ID	UA015
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Laytonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4392380.358	458614.729	496.991

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.022
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA016
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Laytonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4393333.171	458588.979	504.407

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.020
RMSE Z	0.033
GPS Method	RTK

PHOTOS:









Point ID	UA017
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389780.544	602098.730	48.395

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	UA018
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Berry Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4392297.992	637972.559	780.22

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.012
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	UA019
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375554.951	567552.458	42.883

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	UA020
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4373967.591	568923.974	39.154

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.022
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	UA021
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

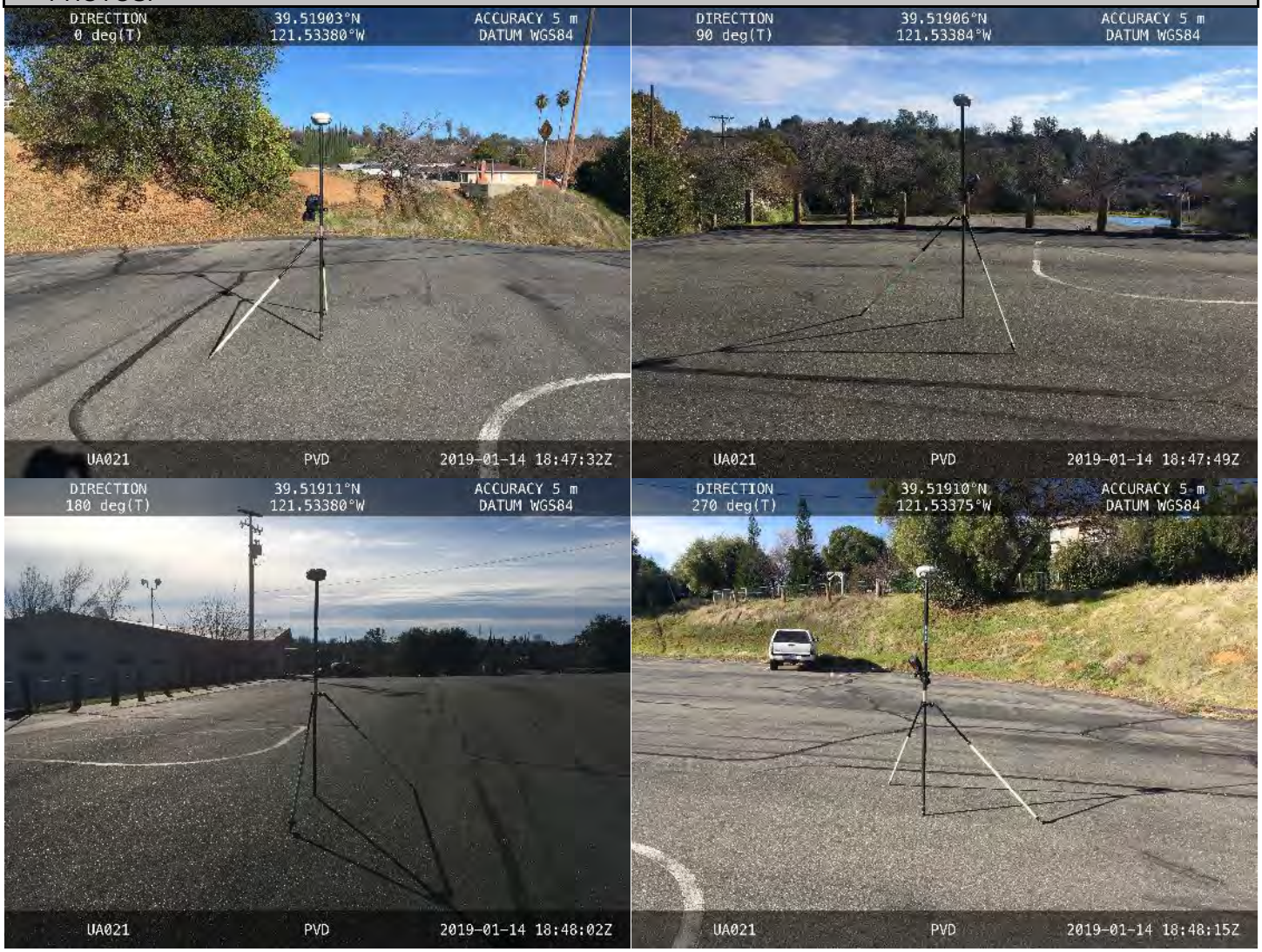
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375406.175	626034.425	101.929

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	UA022
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Palermo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4372827.586	627191.306	109.576

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	UA023
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Norden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

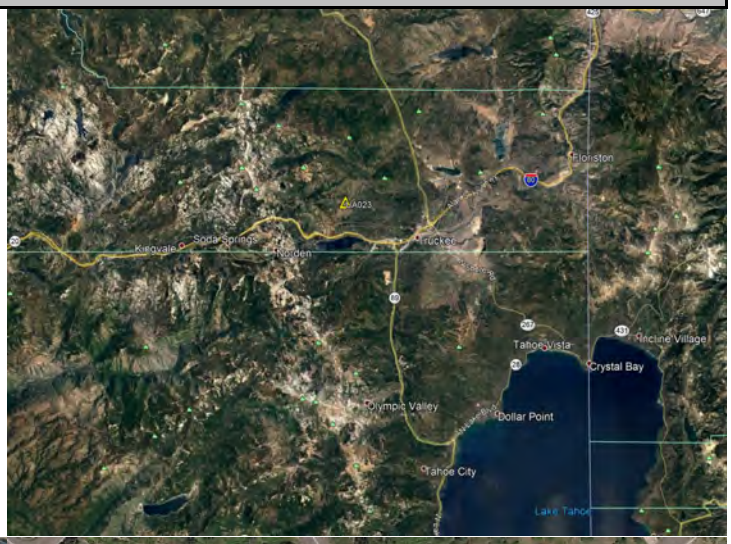
Northing	Easting	Elevation
4359820.972	736260.695	2050.18

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.025
RMSE Z	0.034
GPS Method	RTK

PHOTOS:

Unfortunately, photos do not exist for this point but here is the general location.







Point ID	UA024
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Truckee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4355468.715	743312.587	1841.320

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.024
RMSE Z	0.032
GPS Method	RTK

PHOTOS:



0.032







Point ID	UA025
Project No.	R033371
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358537.019	539208.400	358.830

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	UA026
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Gridley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358219.341	613260.366	29.182

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	UA027
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Gridley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

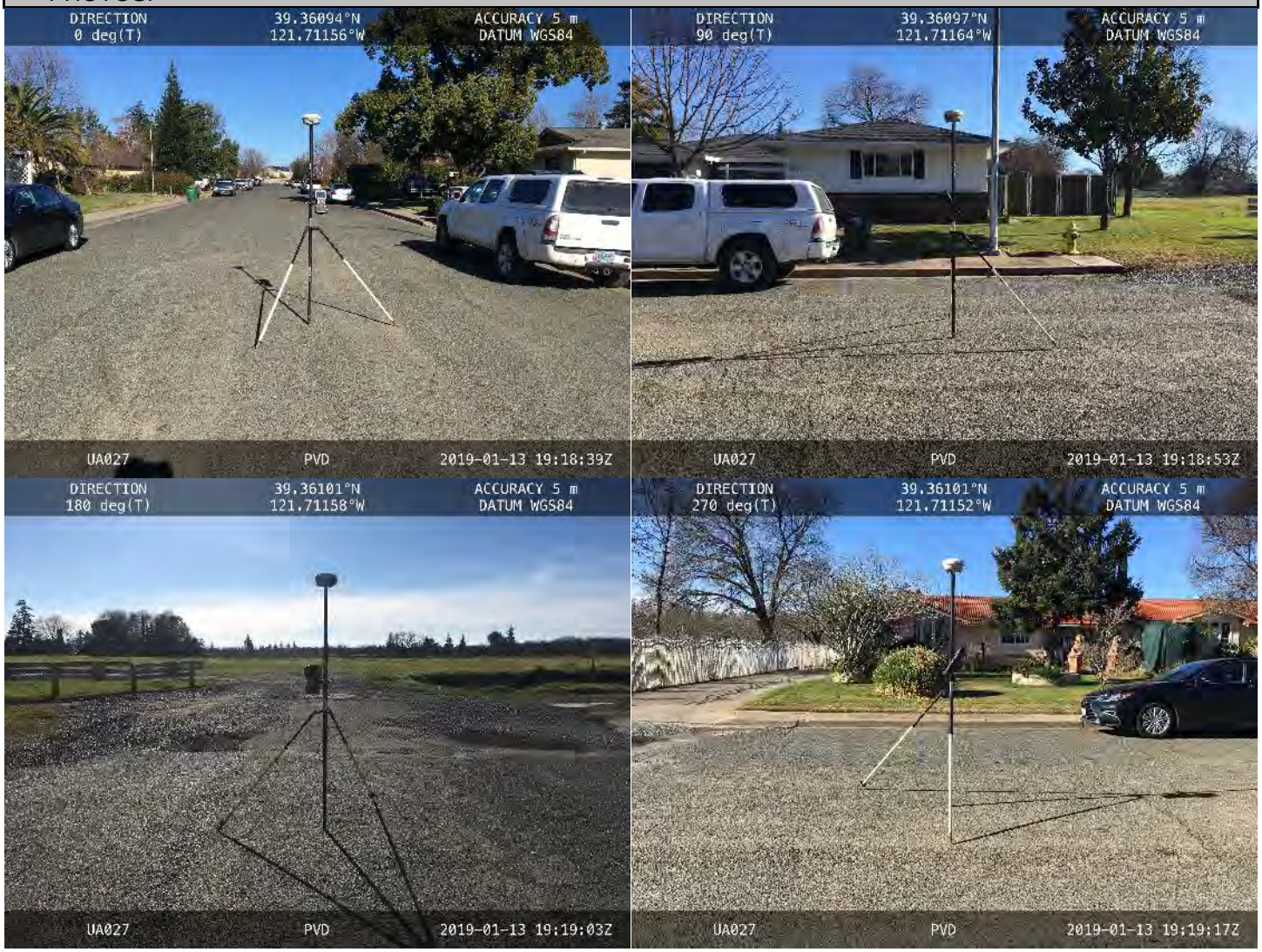
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357625.465	611000.078	27.230

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	UA028
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Oregon House

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359109.169	649593.650	492.119

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	UA029
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Colusa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

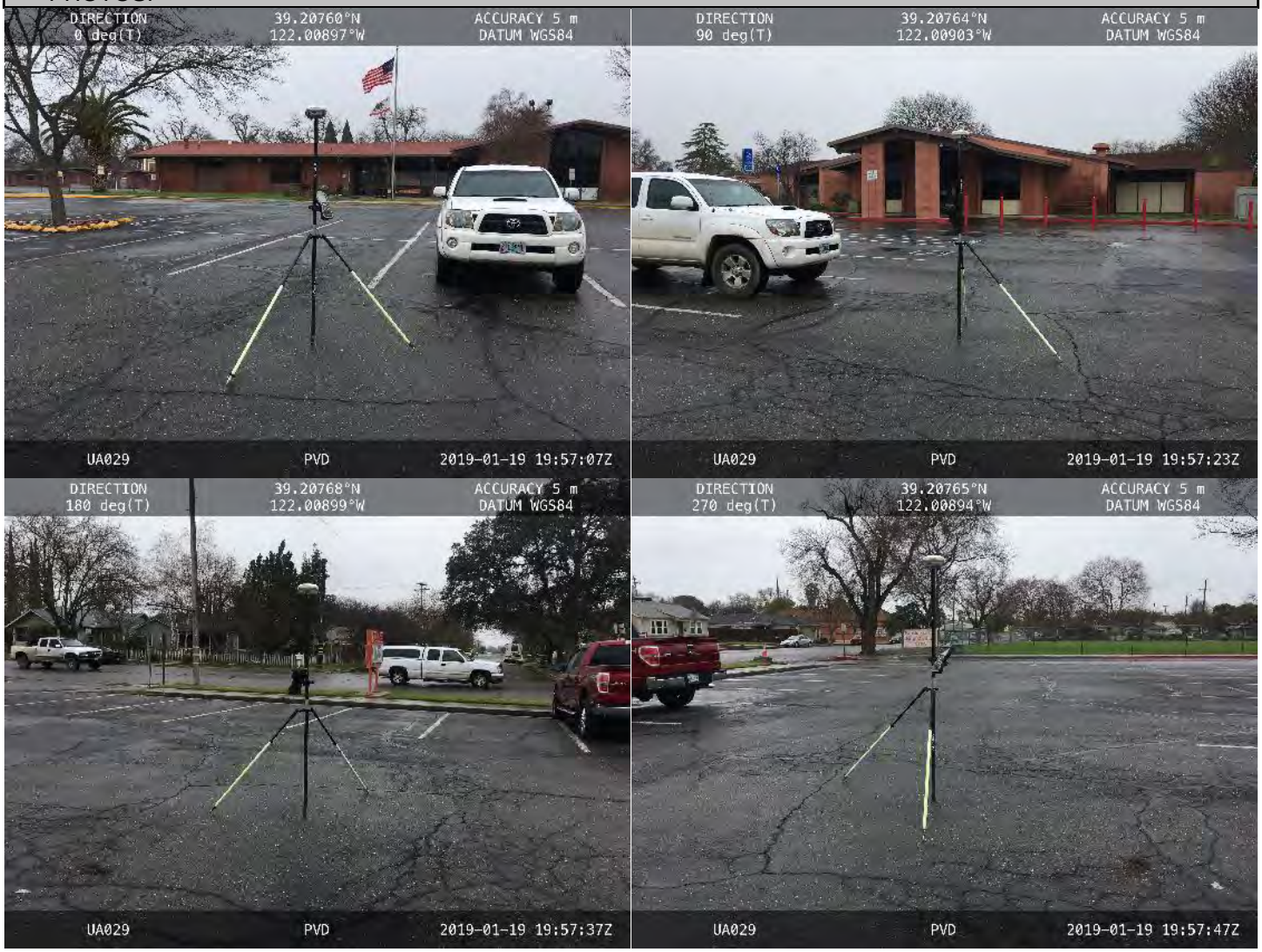
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4340287.497	585564.418	16.973

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	UA030
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331664.708	614766.379	15.844

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.022
RMSE Z	0.030
GPS Method	RTN

PHOTOS:



Point ID	UA031
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Yuba City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4336026.959	624117.893	20.830

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	UA032
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Browns Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4336567.325	634461.426	33.897

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	UA033
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Lake Combie

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331080.589	667375.646	671.187

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.014
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	UA034
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Nicolaus

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4312602.147	626122.198	12.910

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	UA035
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Lincoln

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4310093.731	650206.546	67.104

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.030
RMSE Z	0.031
GPS Method	RTN

PHOTOS:



Point ID	UA036
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Auburn

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4306078.010	672151.457	464.680

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTK (RTN)

PHOTOS:



Point ID	UA037
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Georgetown

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

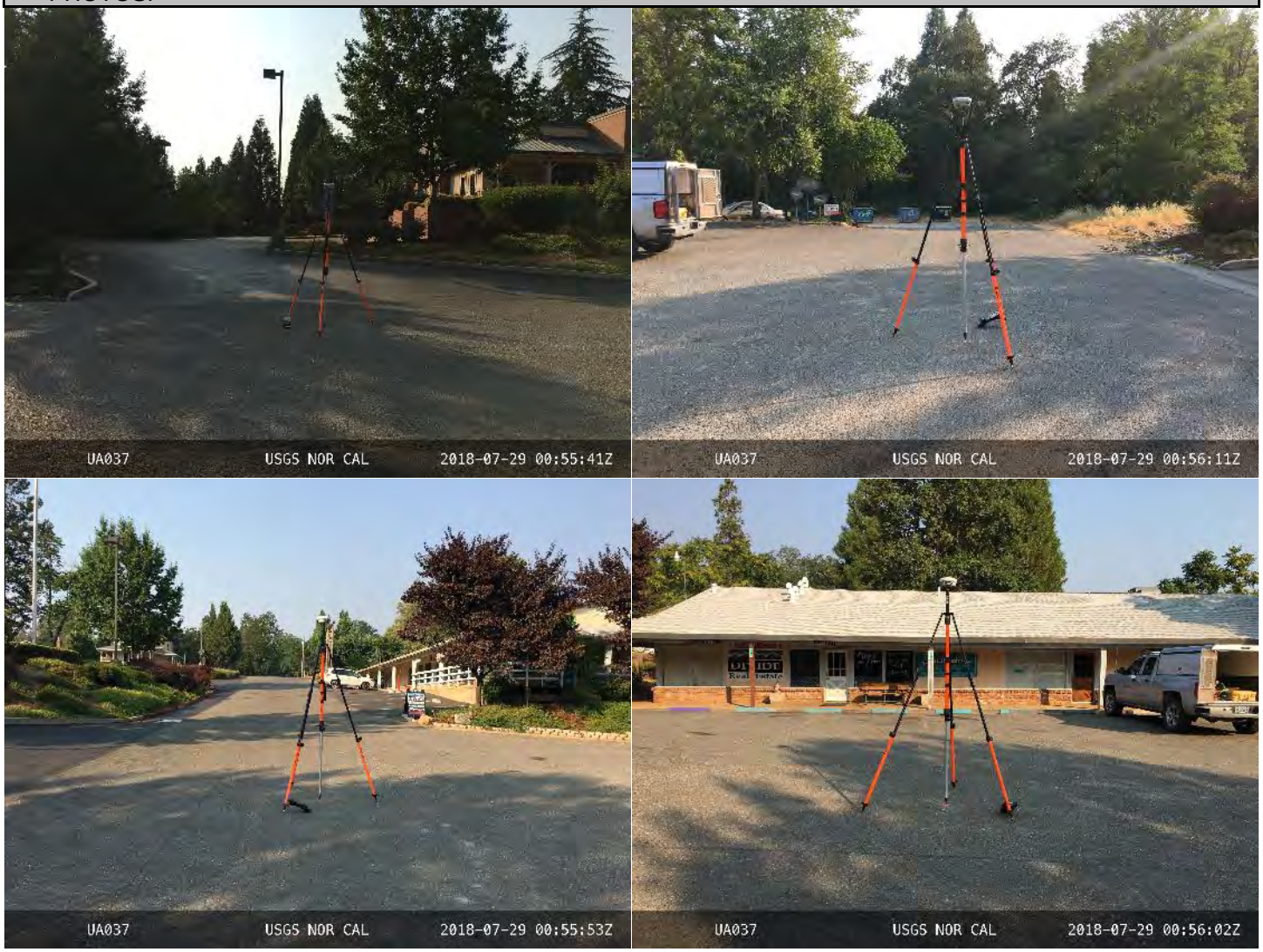
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4308489.946	687198.238	803.295

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTK (RTN)

PHOTOS:



Point ID	UA038
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Pleasant Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4298281.806	631630.852	15.211

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	2.25 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	UA039
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Loon Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4316806.334	731597.790	1960.108

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.012
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA040
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Knights Landing

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4302750.255	612482.355	6.033

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTN

PHOTOS:



Point ID	UA041
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Taylor Monument

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

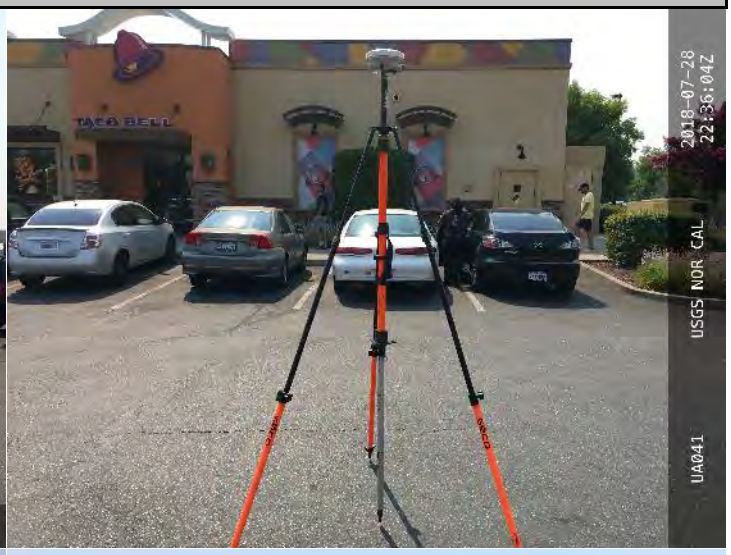
Northing	Easting	Elevation
4279488.486	628194.564	7.070

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK (RTN)

PHOTOS:









Point ID	UA042
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Roseville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

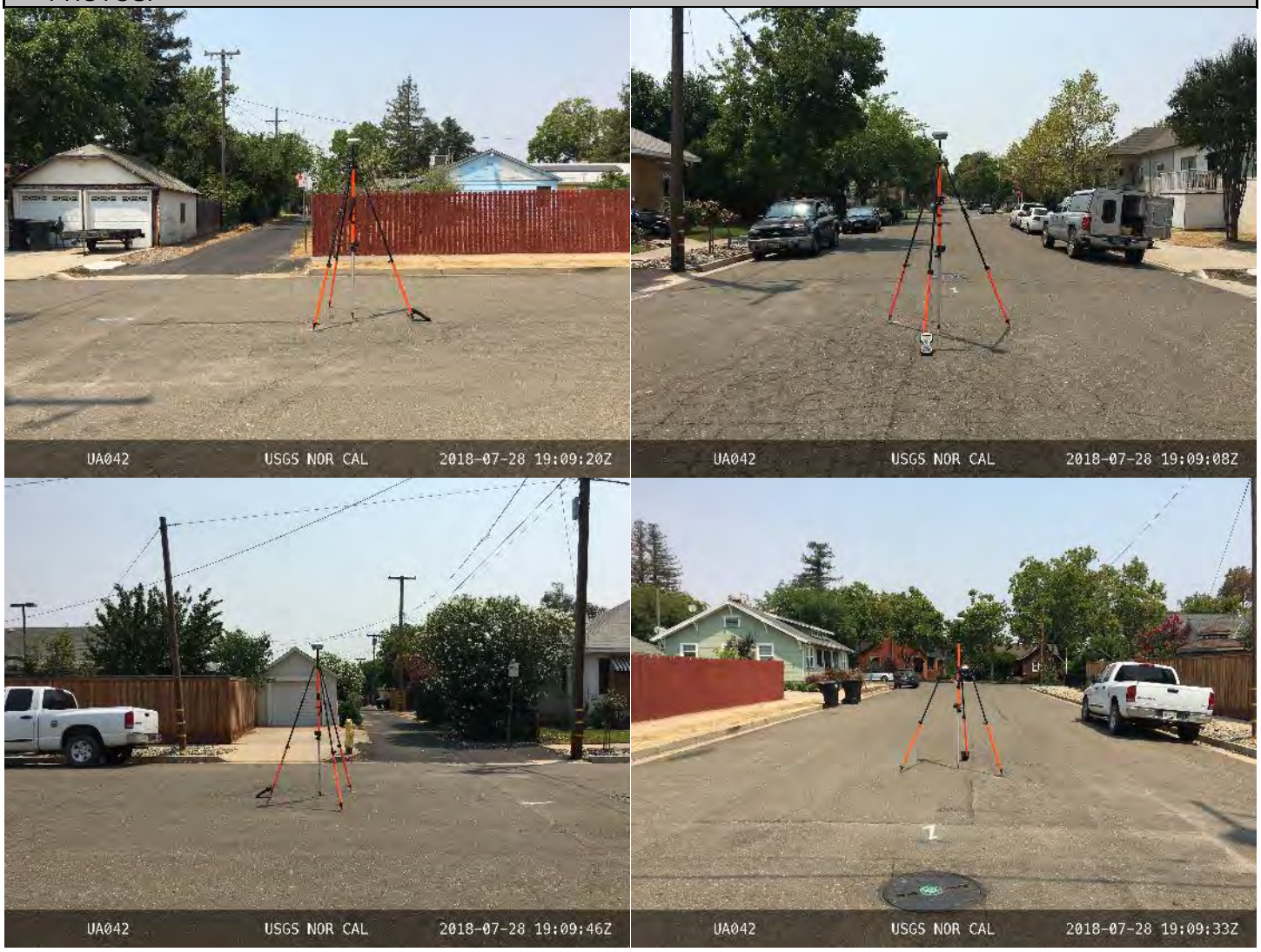
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290913.639	648549.208	52.717

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK (RTN)

PHOTOS:



Point ID	UA043
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Folsom

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4285609.757	659323.211	106.969

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:



Point ID	UA044
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Carmichael

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

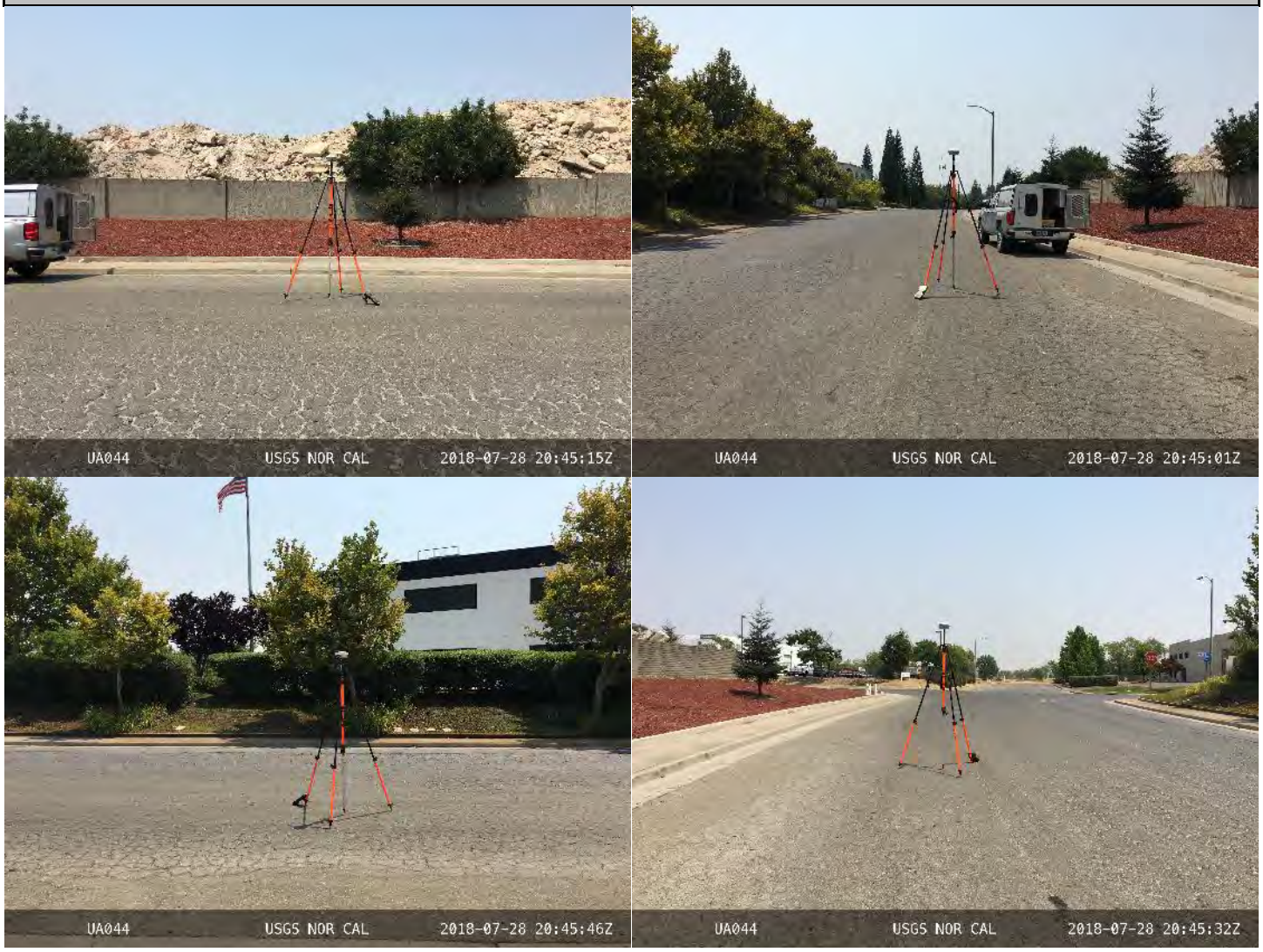
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4271502.580	651954.026	44.943

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	RTK (RTN)

PHOTOS:



Point ID	UA045
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Sacramento East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4265317.689	641479.635	15.070

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK (RTN)

PHOTOS:









Point ID	UA046
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sacramento
Quad	Sacramento West

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4264442.584	630367.759	5.318

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK (RTN)

PHOTOS:



Point ID	UA047
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Woodland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4280184.596	604256.256	23.340

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.026
RMSE Z	0.038
GPS Method	RTN

PHOTOS:



Point ID	UA048
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386321.314	569055.854	51.342

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	UA049
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Humboldt

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

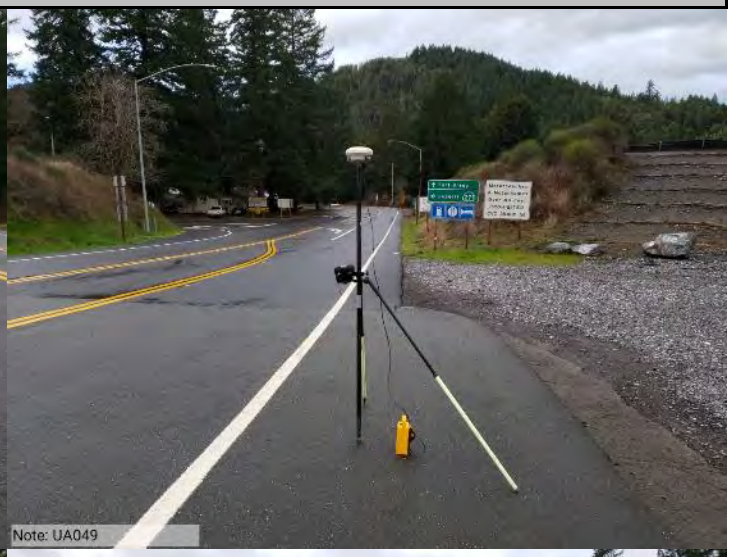
Northing	Easting	Elevation
4413377.405	438930.865	288.057

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-08-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	UA050
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	St Helena

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

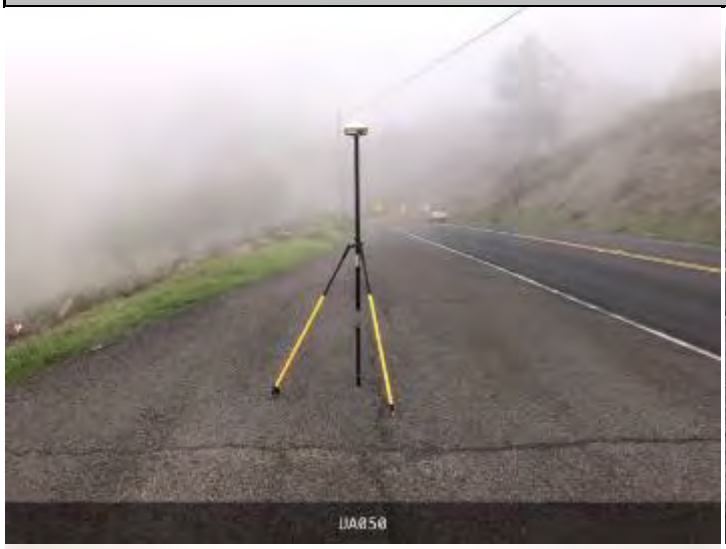
°

Northing	Easting	Elevation
4267910.944	545974.763	309.890

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

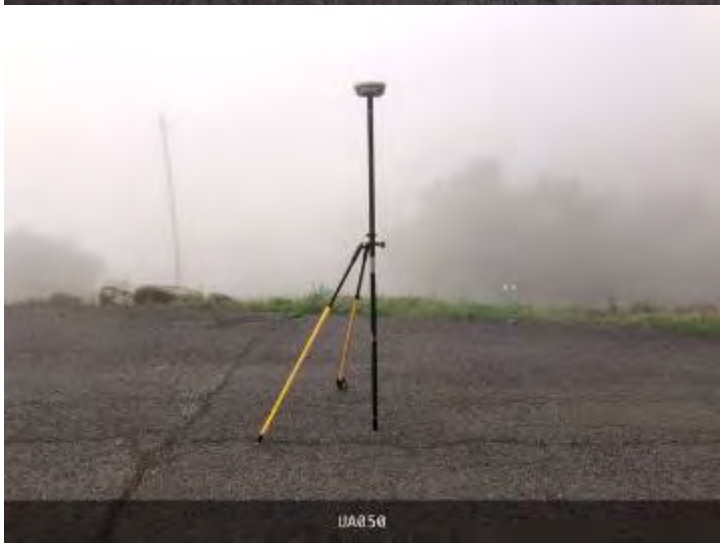
Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.020
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA051
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Merritt

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

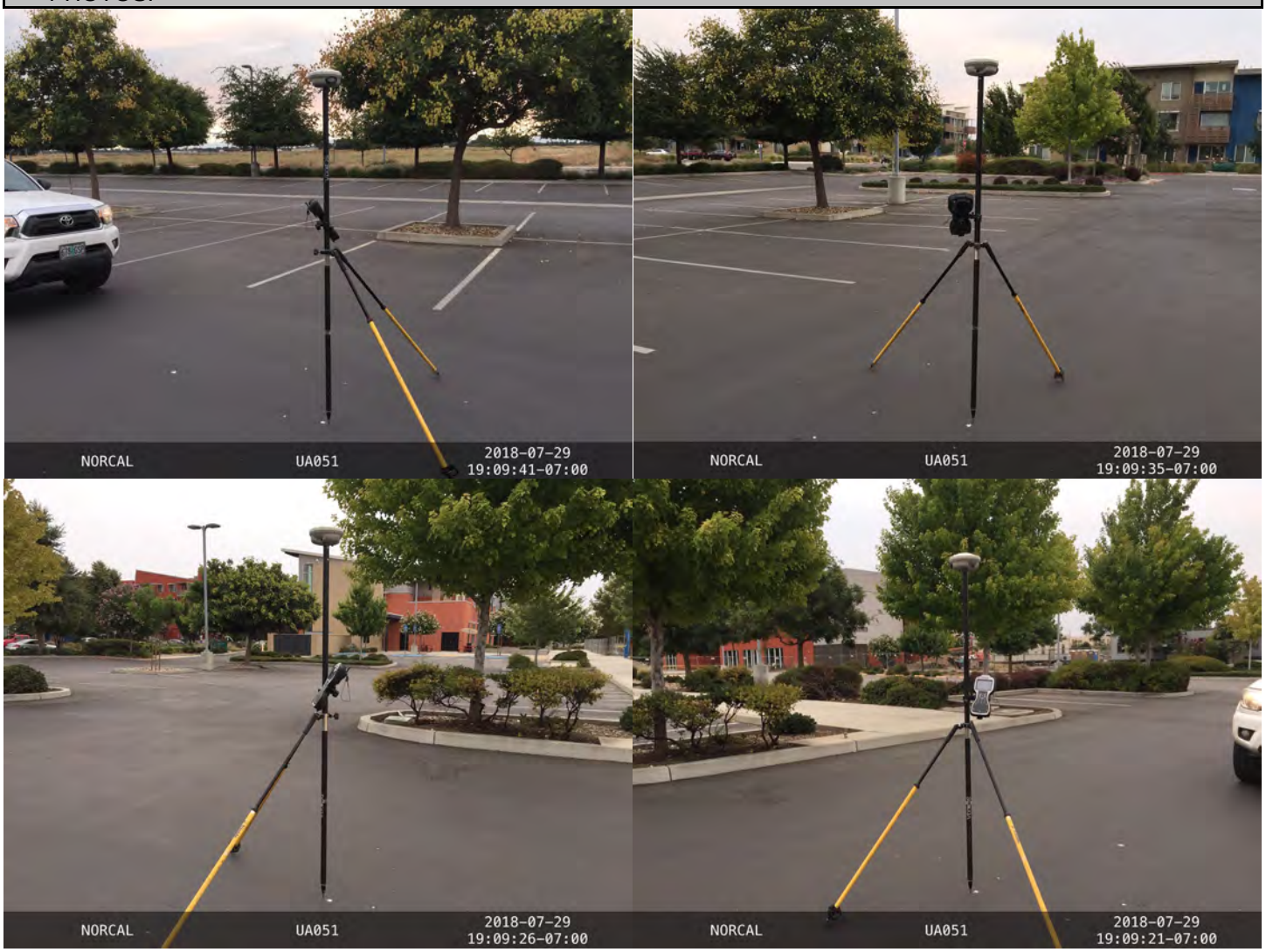
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4266520.669	606926.085	16.943

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	UA052
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Davis

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

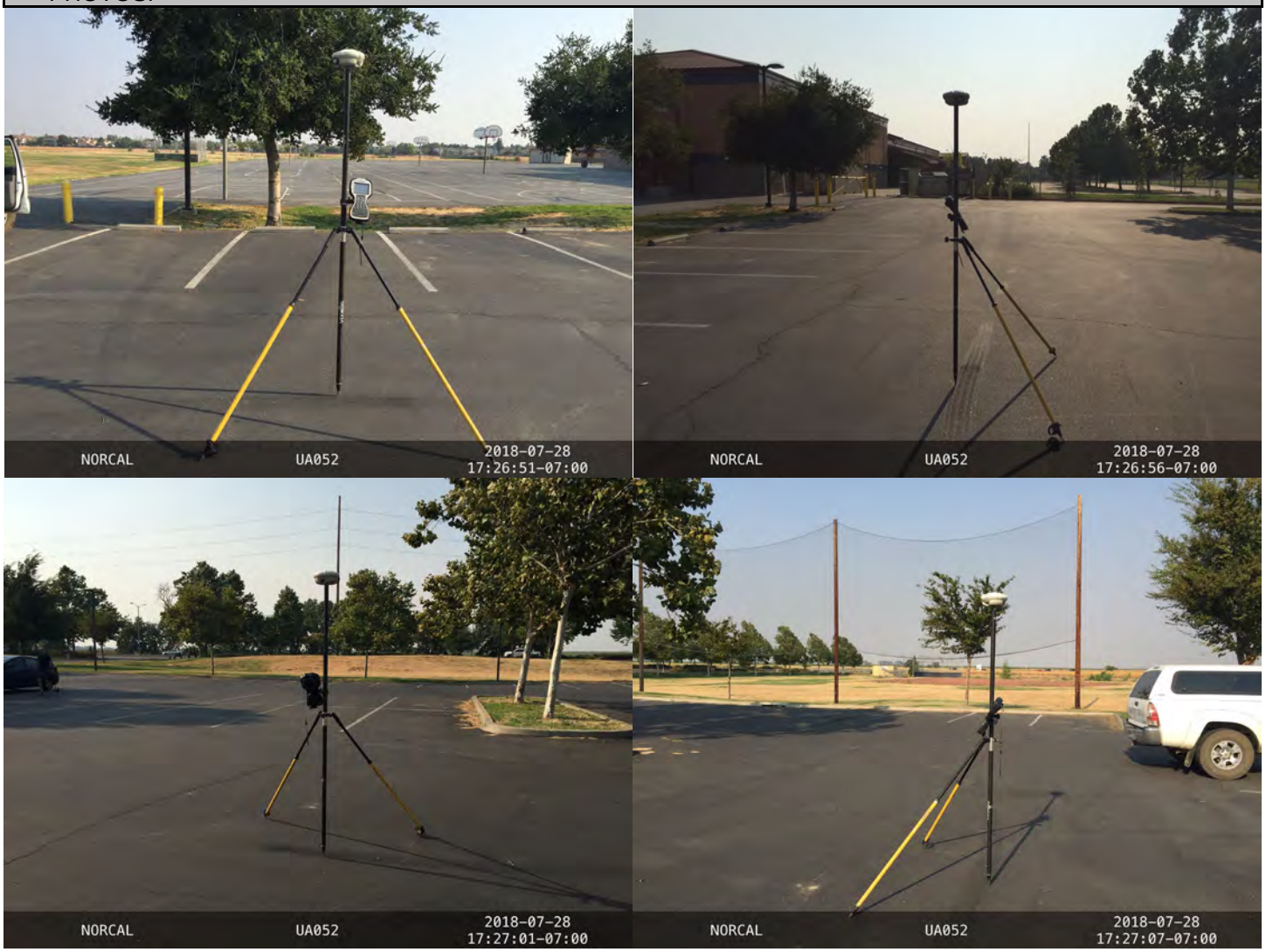
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4269210.454	613214.057	10.119

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	UA053
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Rutherford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4260009.233	551921.875	56.217

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	UA054
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Yountville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4250054.543	555924.947	28.966

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	UA055
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dixon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4258662.960	602791.634	20.180

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA056
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dixon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

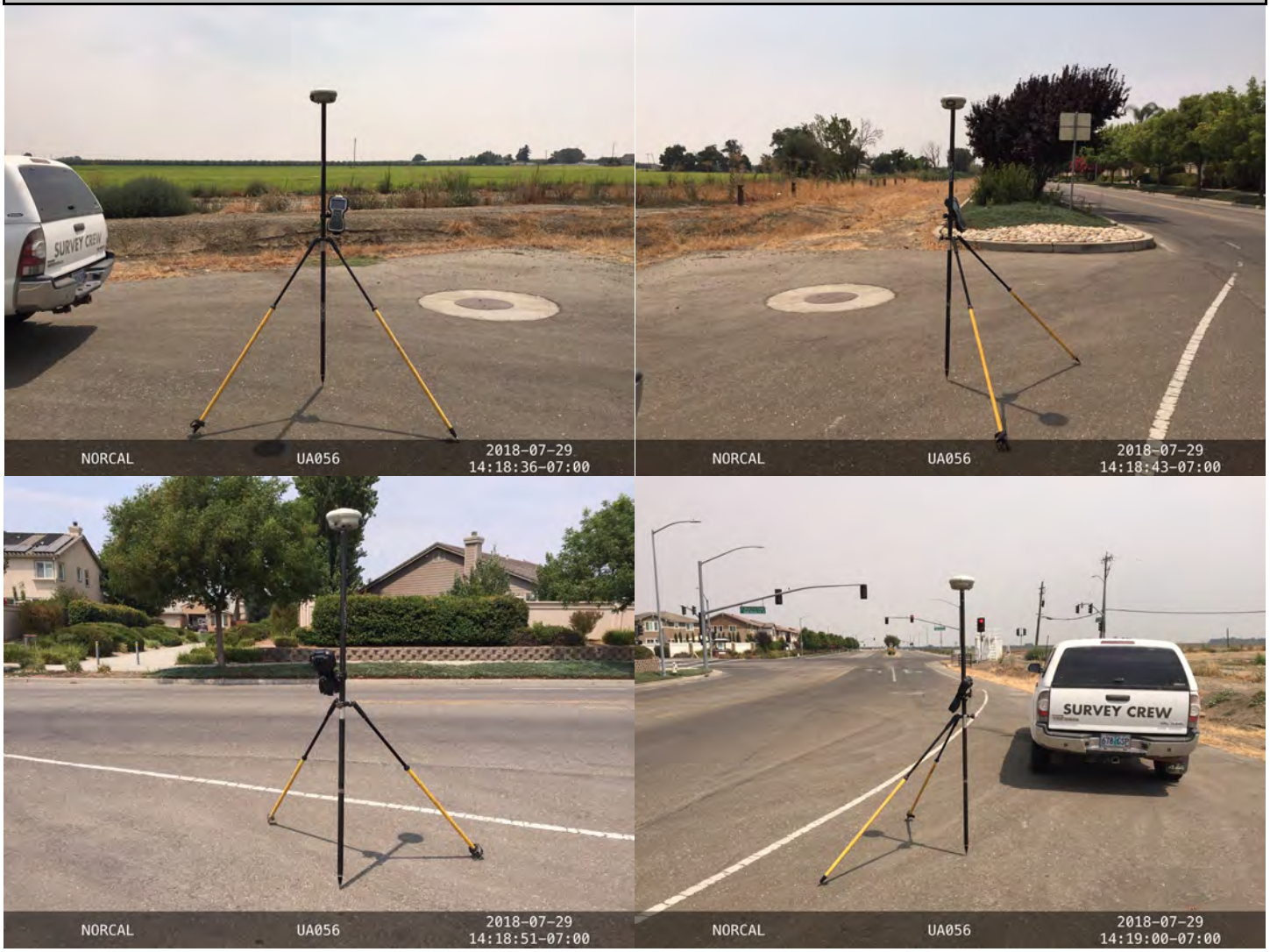
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4254312.755	602697.877	16.944

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	UA057
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4244767.536	563993.245	28.813

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.021
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	UA058
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Elmira

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4245429.305	589130.507	51.964

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.027
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	UA059
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Elmira

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4245814.068	588891.515	53.467

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	UA060
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

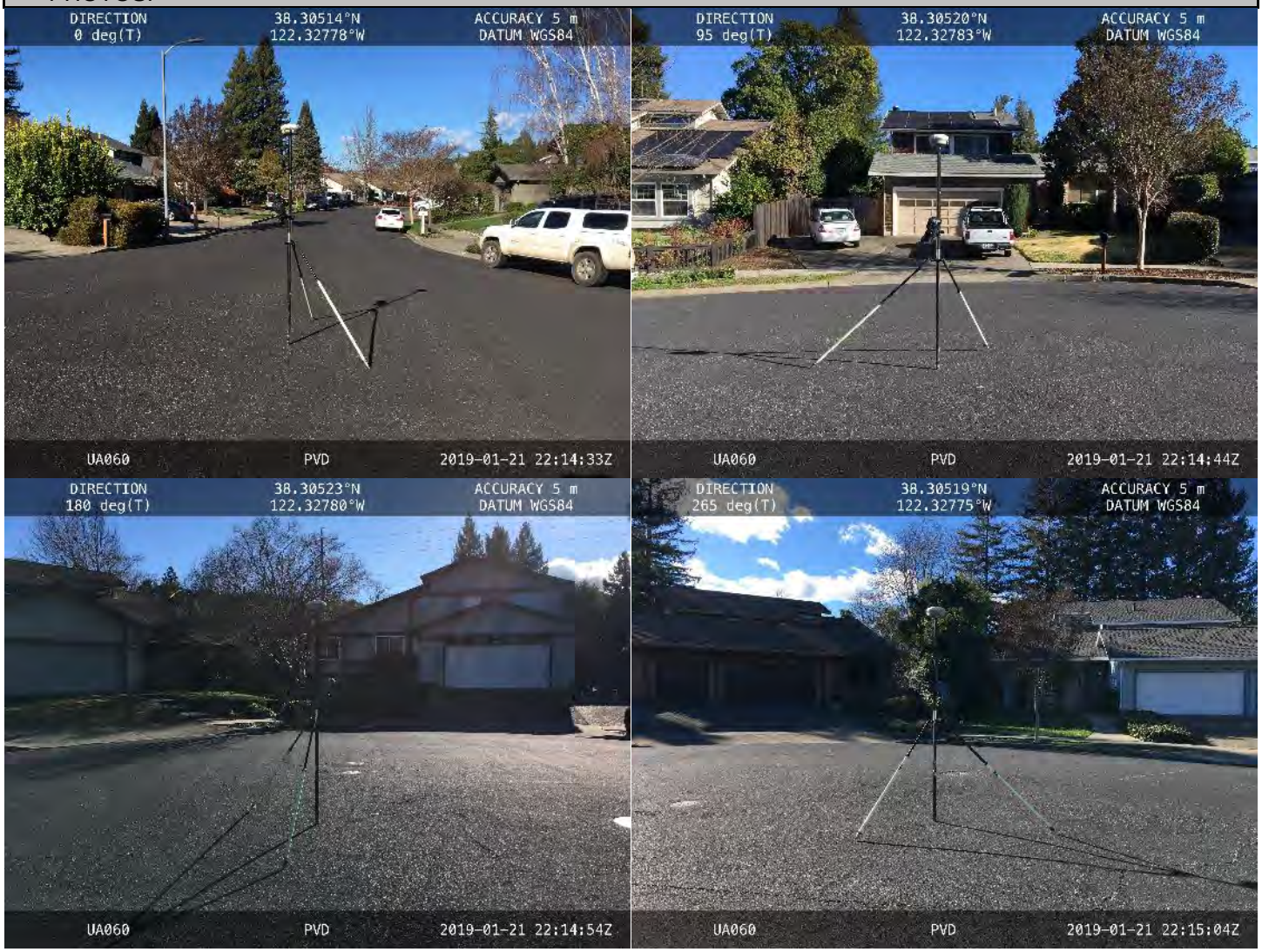
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4239892.487	558774.480	36.776

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	UA061
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4239663.677	563122.405	5.888

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	UA062
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Fairfield South

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233257.970	576928.763	18.693

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	UA063
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Denverton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233316.475	588194.432	5.233

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.028
RMSE Z	0.031
GPS Method	RTK

PHOTOS:









Point ID	UA064
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Birds Landing

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

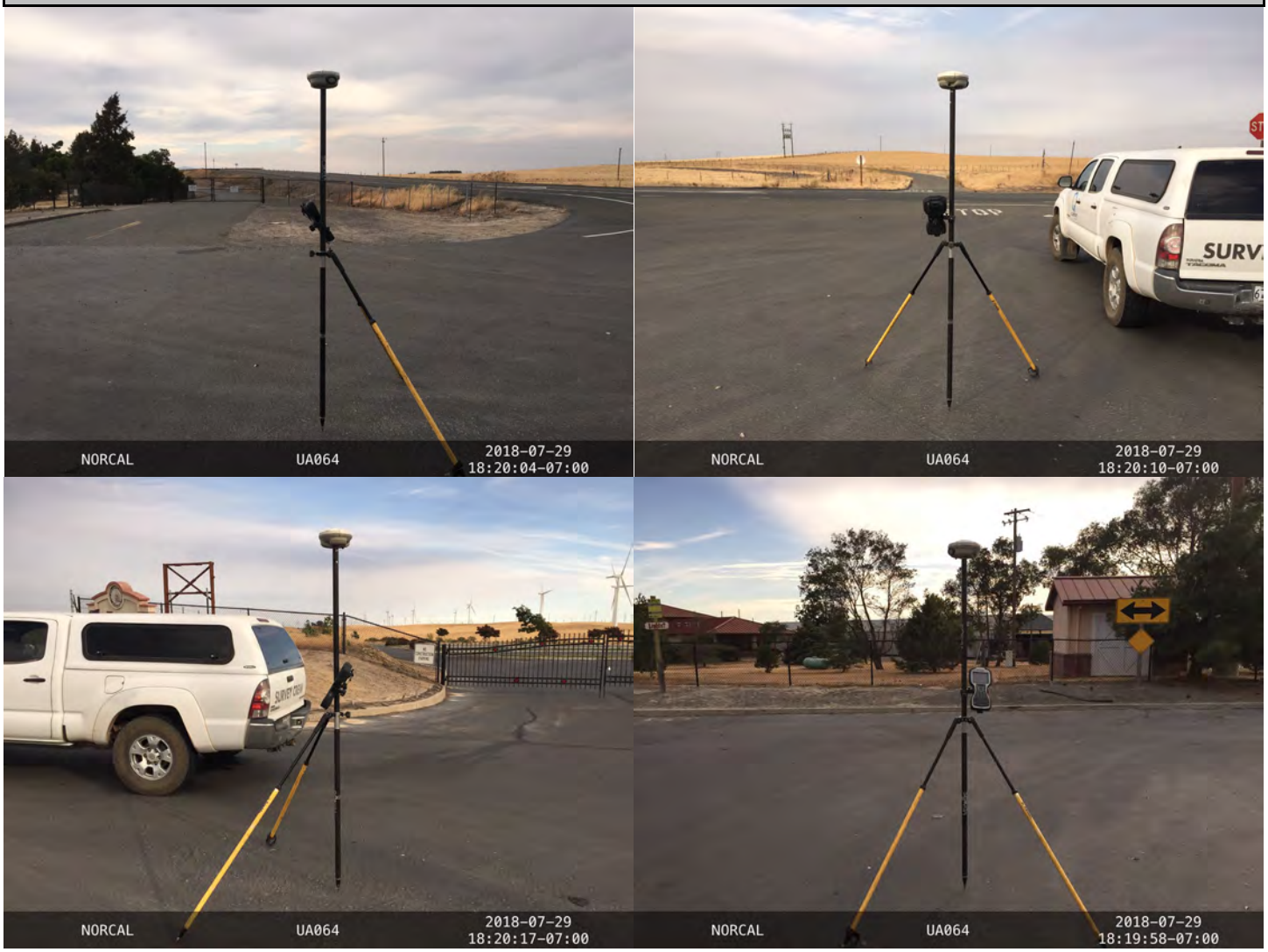
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4229077.409	598605.713	29.553

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	UA065
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Rio Vista

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4225433.479	615205.177	9.505

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	UA066
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

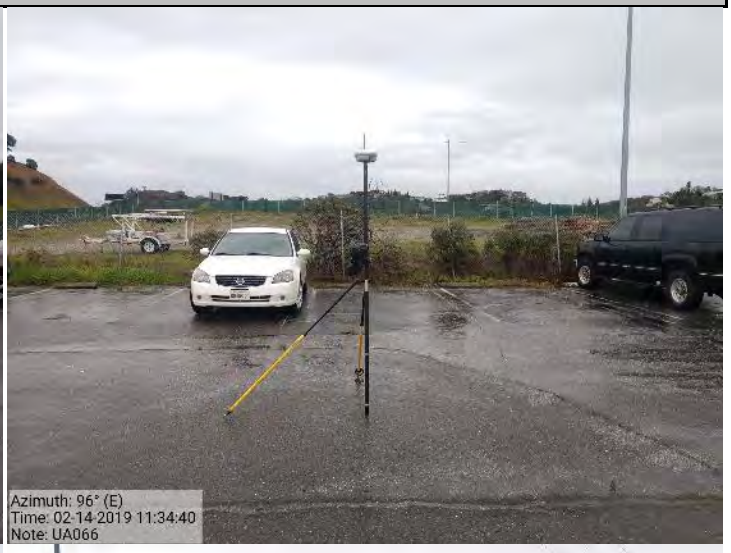
Northing	Easting	Elevation
4217587.947	542674.216	2.610

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	UA067
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4208764.437	539350.224	52.777

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	UA068
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Quentin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4205472.51	546969.155	2.527

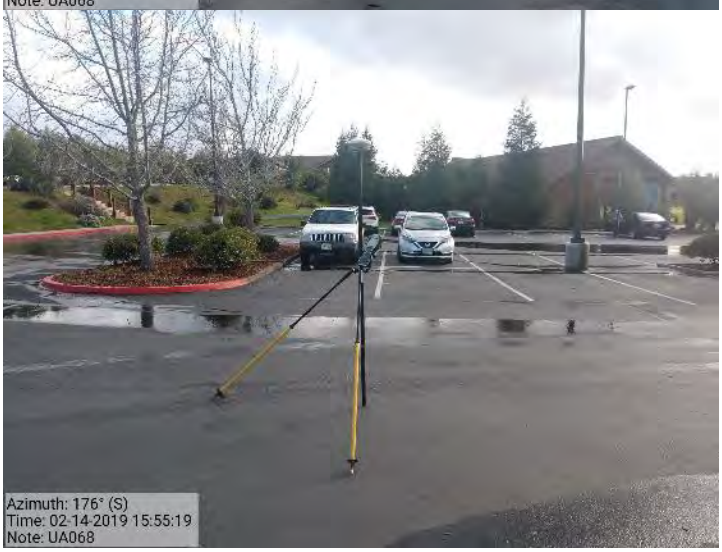
Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

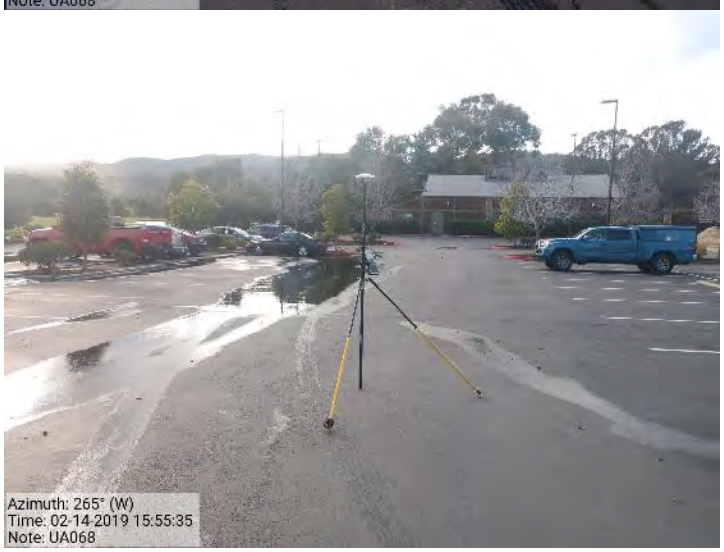
Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	UA069
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Rafael

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4201539.921	543640.388	1.035

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA070
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Cordelia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4222476.935	567005.867	35.167

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	UA071
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Mare Island

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4208255.865	562598.564	7.637

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-28-2019
RMSE Hz	0.031
RMSE Z	0.034
GPS Method	RTK

PHOTOS:









Point ID	UA072
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Benicia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4208779.971	575833.486	3.122

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.014
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA073
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Honker Bay

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4208800.970	592846.956	30.384

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.014
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA074
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4195964.758	526630.397	58.570

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA075
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Rafael

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4194892.233	541488.212	4.088

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	UA076
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Francisco North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4190579.404	544941.177	3.04

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	UA077
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	San Quentin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4197678.002	554415.061	2.615

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	UA078
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Richmond

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4198482.357	559510.832	21.263

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	UA079
Project No.	33371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Walnut Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4197695.193	581404.651	34.994

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	UA080
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Clayton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4199833.493	593696.136	121.638

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	UA081
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Alameda
Quad	Richmond

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4192239.382	562714.182	25.493

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	UA082
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Alameda
Quad	San Francisco

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4184453.318	558743.415	4.197

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	UA083
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Las Trampas Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4188444.172	586447.302	95.563

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-22-2019
RMSE Hz	0.025
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	UA084
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	Point Bonita

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4181596.102	542993.831	46.764

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

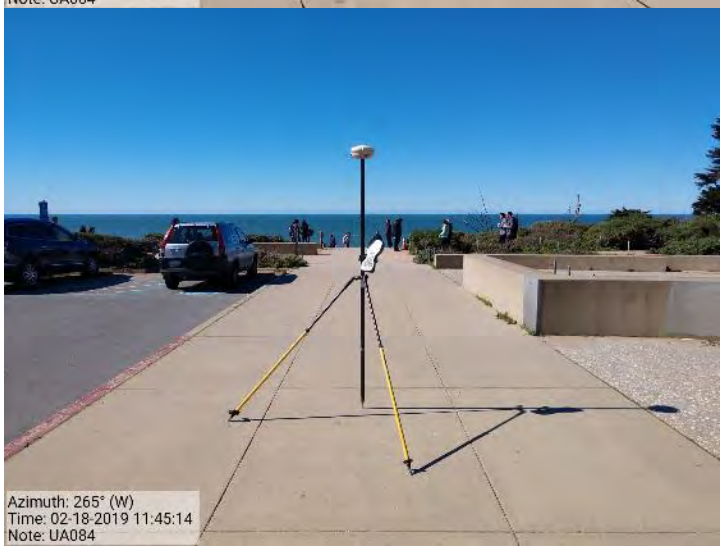
Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	UA085
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	San Francisco North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4183747.559	552944.917	3.078

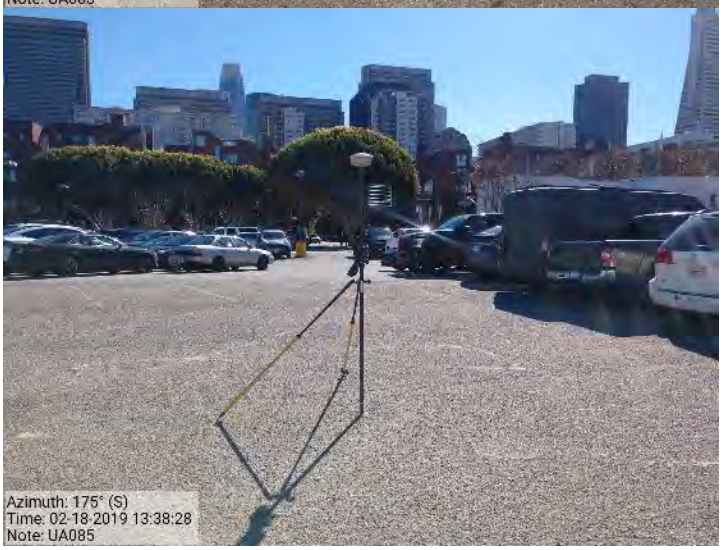
Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA086
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	San Francisco South

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4177493.382	547963.629	172.397

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

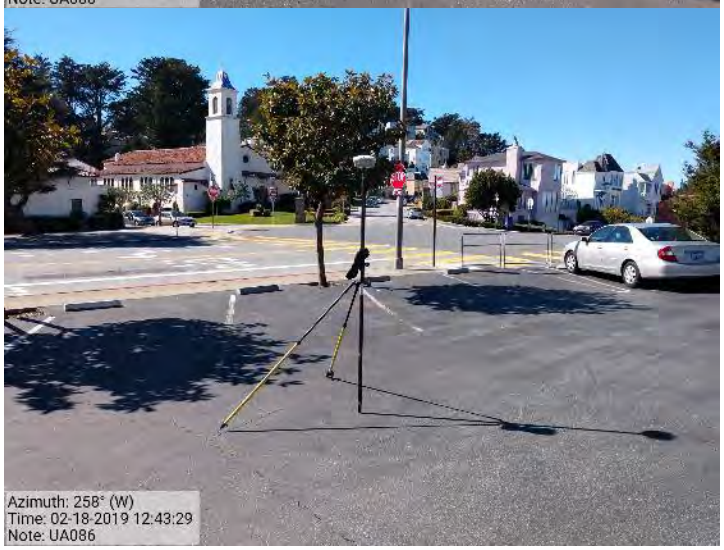
Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA087
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fortuna

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4490003.936	404264.547	105.741

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	UA088
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Westwood West

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4463389.183	669232.418	1553.21

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	UA089
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Covelo East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4403434.216	478636.063	423.269

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:









Point ID	UA090
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Downieville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4381185.301	686436.277	883.531

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:









Point ID	UA091
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sattley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387662.639	705895.221	1687.215

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	Haypress Valley

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:









Point ID	UA092
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334833.071	572997.545	24.499

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	UA093
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Grass Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4343225.448	666588.640	778.685

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Point ID	UA094
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Nevada City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4348022.355	670980.419	781.812

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	UA095
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Arbuckle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

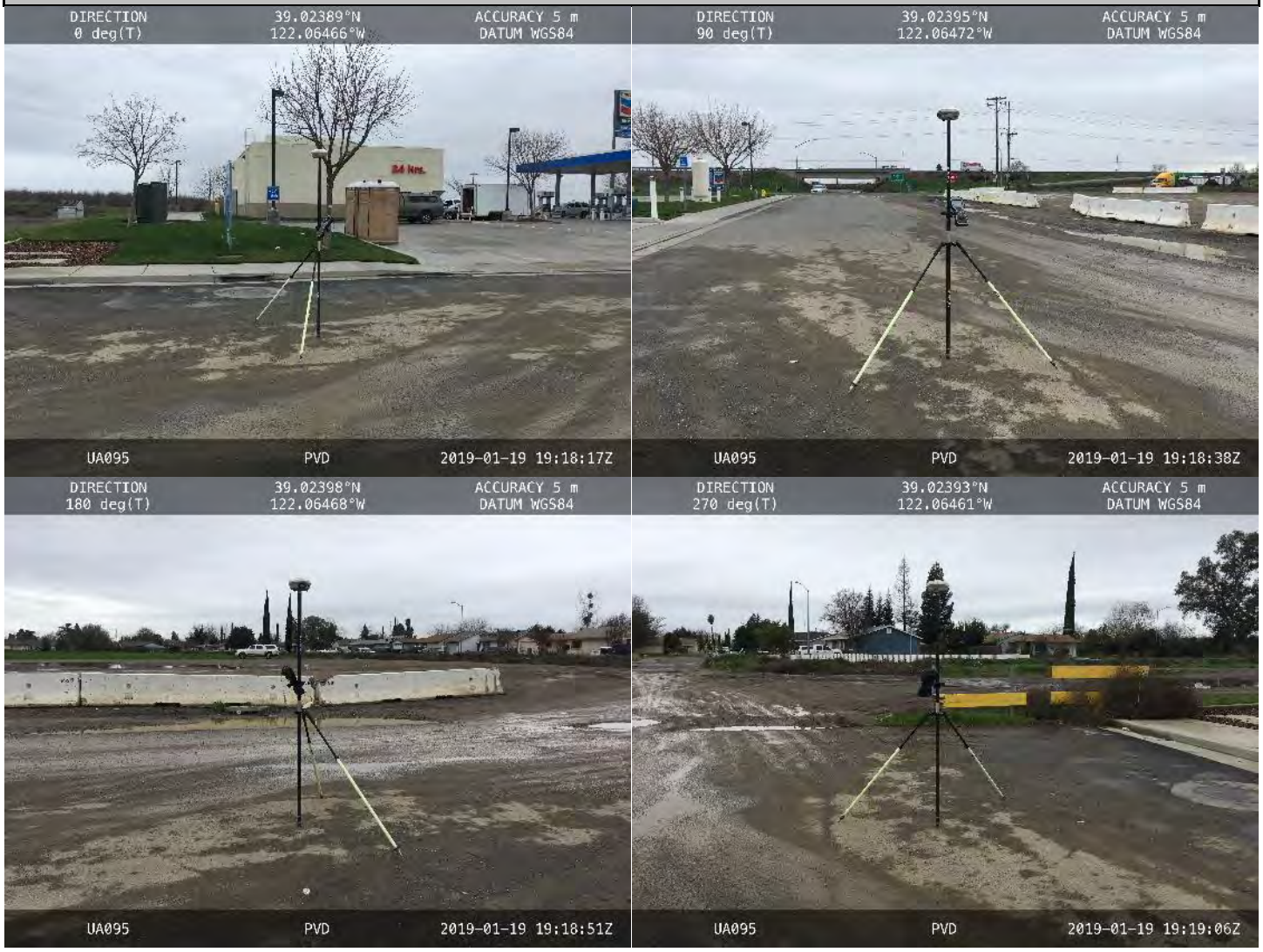
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4319848.762	580968.100	38.990

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	
RMSE Z	
GPS Method	RTN

PHOTOS:



Point ID	UA096
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Sheridan

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

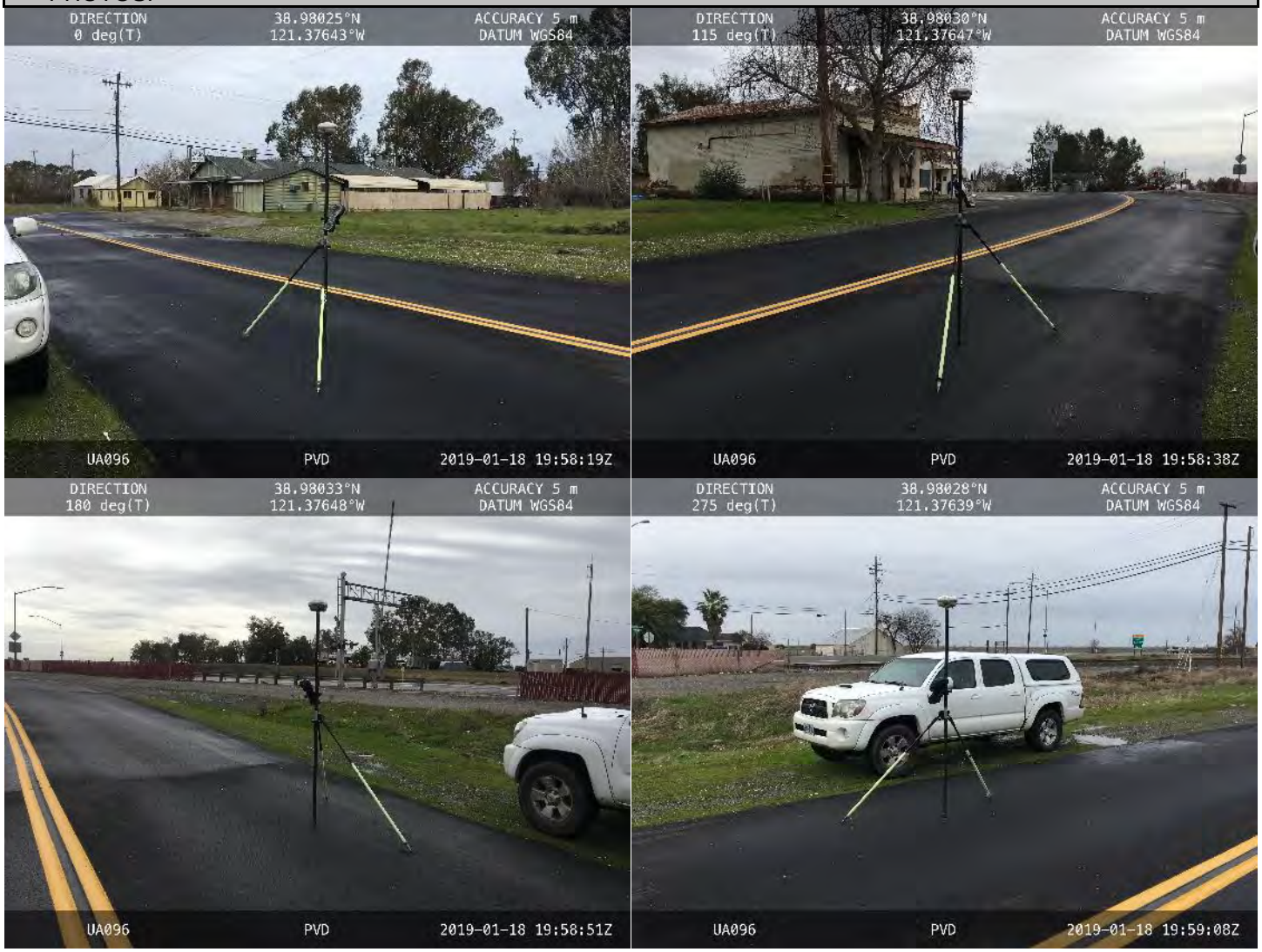
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4315841.723	640631.716	34.518

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	UA097
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Wheatland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4319470.425	635767.393	23.304

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	UA098
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Lincoln

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

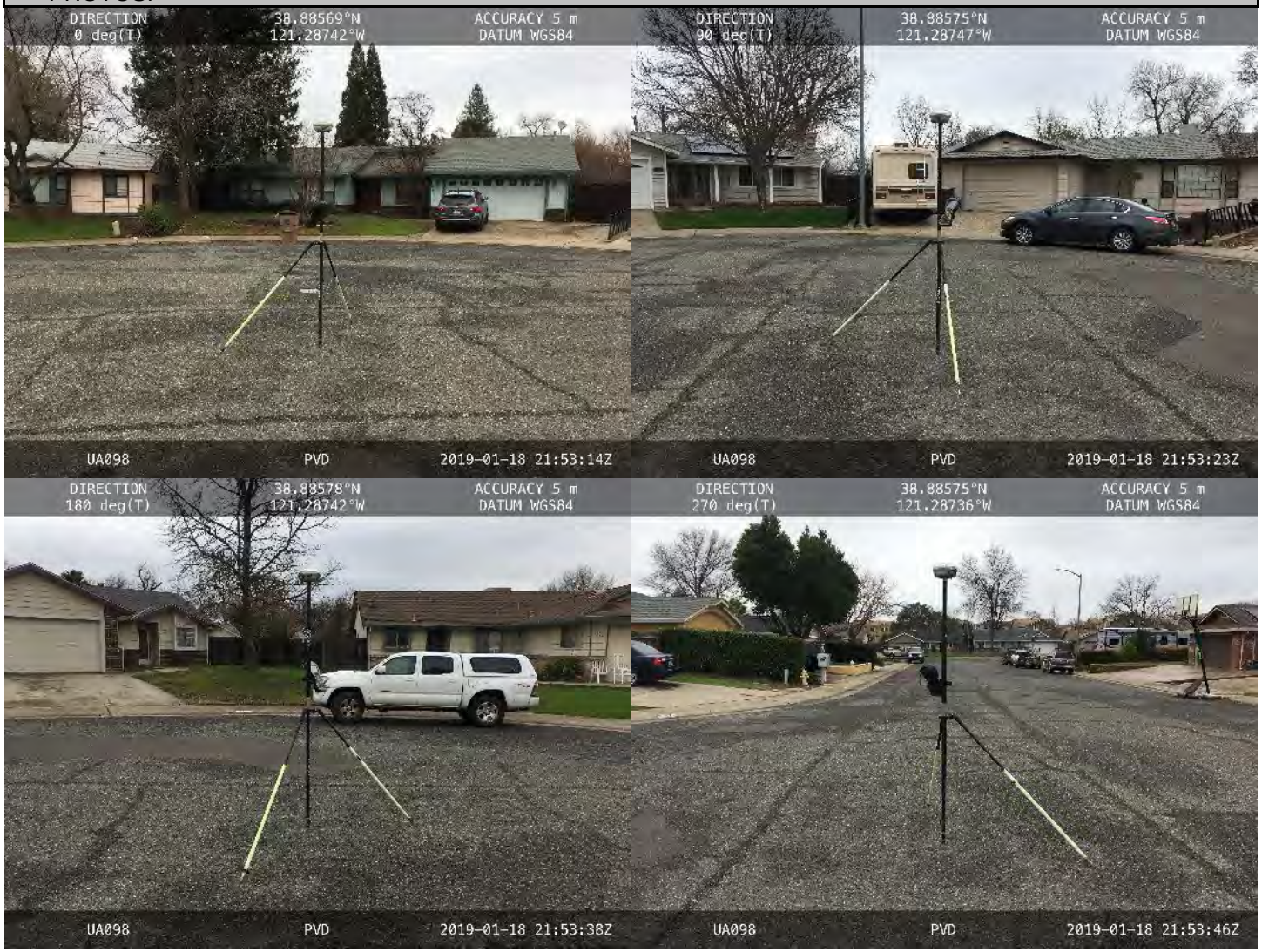
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4305489.941	648539.188	48.546

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.023
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	UA099
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Meridian

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4332407.732	591262.071	16.969

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	UA100
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Meridian

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333118.114	594186.094	13.425

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.025
RMSE Z	0.029
GPS Method	RTN

PHOTOS:



Point ID	UA101
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4335078.586	607279.228	21.781

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.022
RMSE Z	0.027
GPS Method	RTN

PHOTOS:



Point ID	UA102
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Tahoe City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4341280.176	741997.057	1898.038

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.020
RMSE Z	0.035
GPS Method	RTK

PHOTOS:









Point ID	UA103
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Tahoe City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4342607.935	739359.489	1894.196

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	UA104
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Miranda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4454158.704	429884.683	103.351

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-06-2019
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	UA105
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Scotia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

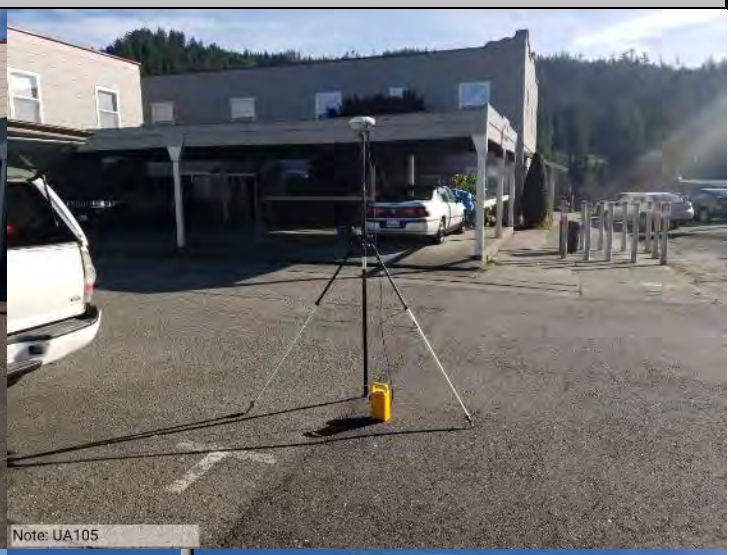
Northing	Easting	Elevation
4483046.869	406696.093	41.508

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.012
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	UA106
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Dinsmore

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4482495.645	449613.740	729.059

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.009
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:



Point ID	UA107
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464543.828	390652.256	29.532

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

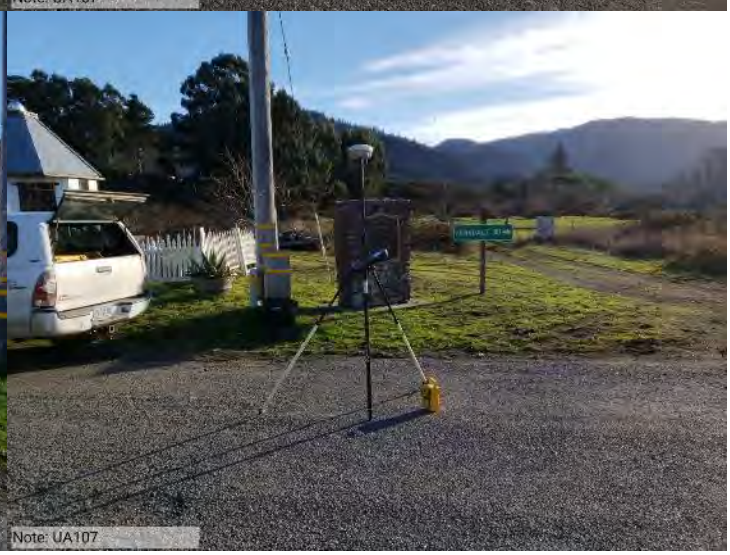
Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.019
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	UA108
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Briceland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4435212.103	417784.971	296.153

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-05-2019
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	UA109
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4363278.627	469473.977	415.981

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	FS

PHOTOS:









Point ID	UA110
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359530.453	470462.034	442.502

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA111
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Maxwell

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

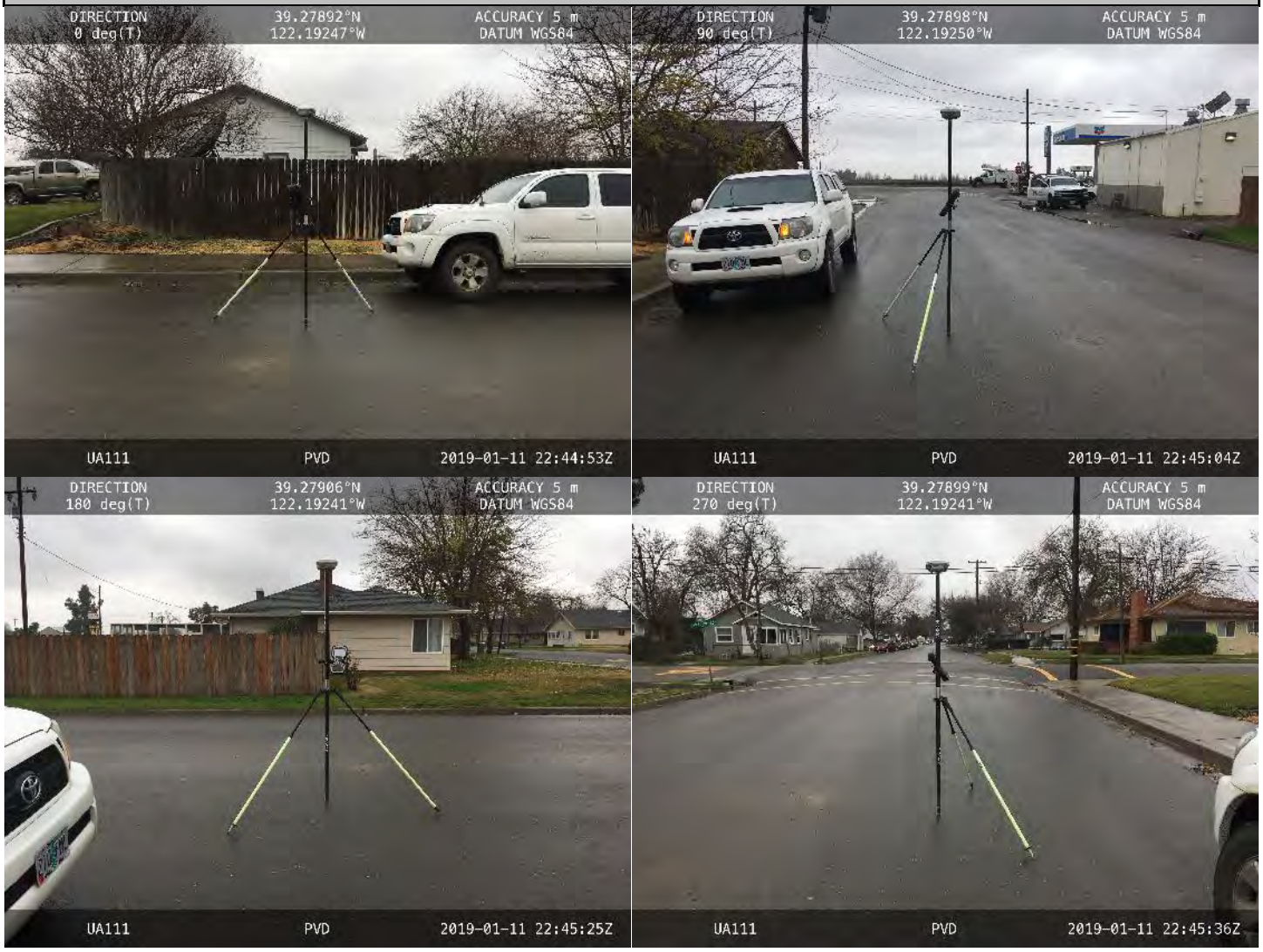
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4348045.705	569652.701	27.845

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	UA112
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389794.159	597063.584	43.785

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	UA113
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Swain Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4478988.403	663634.830	1768.650

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.010
RMSE Z	0.019
GPS Method	FastStatic

PHOTOS:









Point ID	UA701
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Dana

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4550209.592	624755.524	1012.364

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	UA801
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
619466.087	4402112.133	560.687

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	UA802
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
616540.948	4400496.447	466.196

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.020
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	UA803
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
607753.316	4395732.83	145.191

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	UA804
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

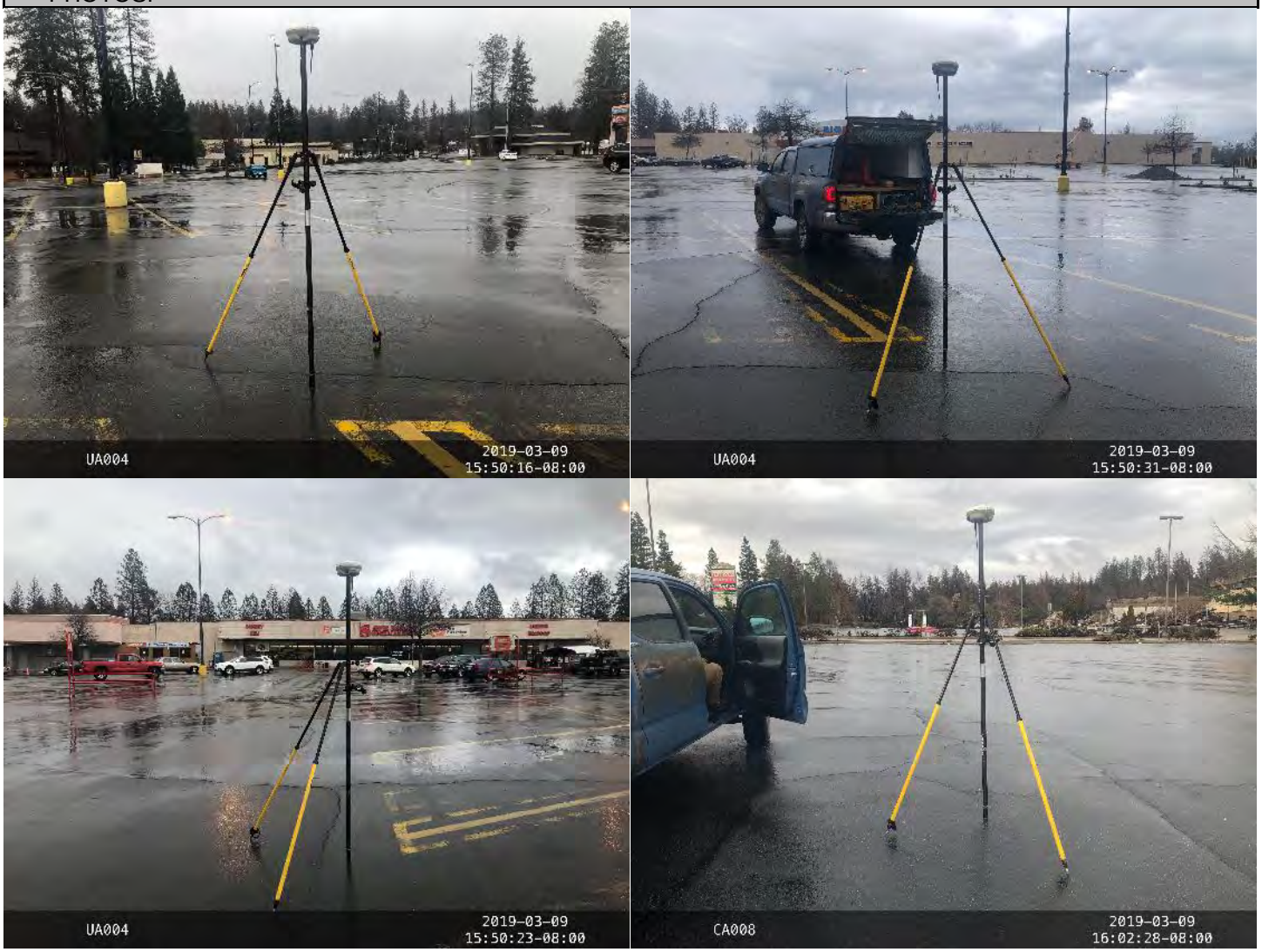
Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
620706.014	4403916.225	636.800

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-09-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	UA805
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
622887.213	4392912.612	288.544

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	RTK

PHOTOS:



Point ID	UA806
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
618908.094	4399452.944	446.457

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	UA807
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

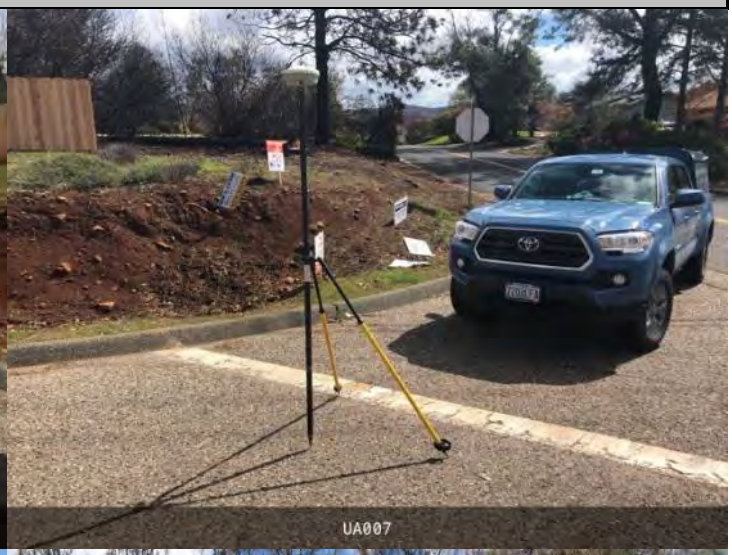
Northing	Easting	Elevation
621830.908	4397701.409	471.810

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	UA808
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
610964.050	4388514.177	59.426

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/28/2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	UA901
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4217587.947	542674.216	2.610

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	UA902
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4208764.437	539350.224	52.777

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	UA903
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Quentin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205472.51	546969.155	2.527

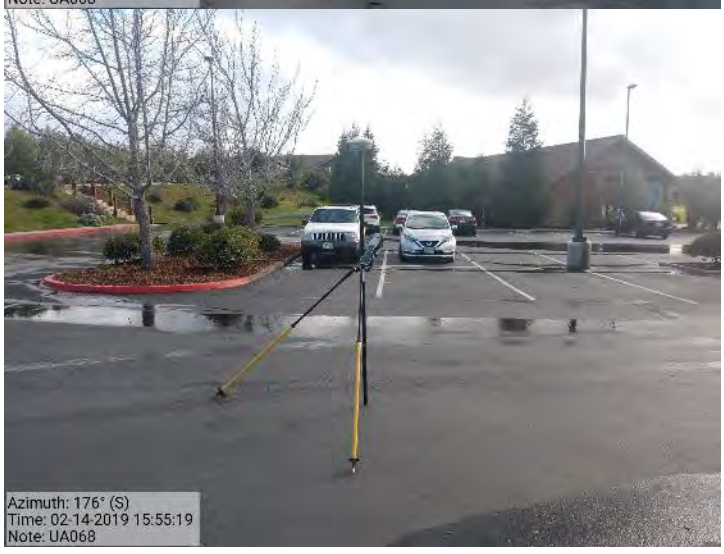
Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

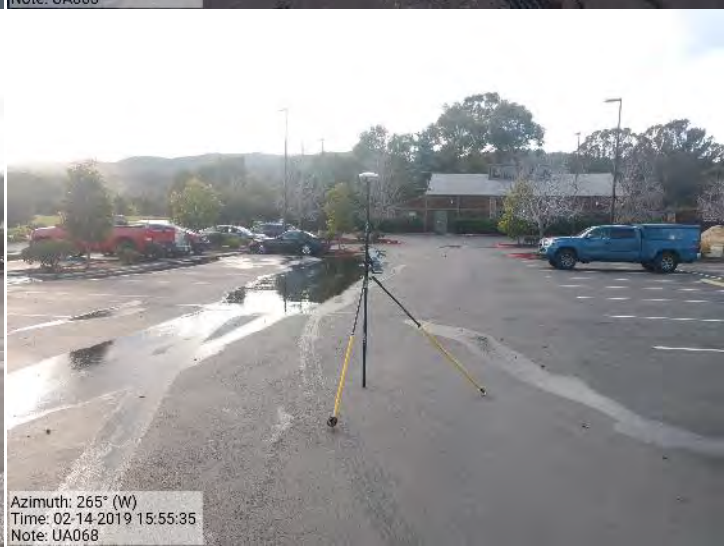
Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	UA904
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Rafael

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4201539.921	543640.388	1.035

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA905
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4195964.758	526630.397	58.57

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA906
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Rafael

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4194892.233	541488.212	4.088

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	UA907
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Francisco North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4190579.404	544941.177	3.04

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	UA908
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4236507.649	508743.611	9.318

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	UA909
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tamales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233193.139	502953.344	11.640

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	UA910
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4234806.792	502765.825	110.956

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.018
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	UA914
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233062.558	508121.416	38.864

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-09-2019
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Tall Weeds Point Log Sheets

Point ID	TW001
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Cannibal Island

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4505766.076	392348.970	48.233

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.008
RMSE Z	0.016
GPS Method	FS

PHOTOS:



Point ID	TW002
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

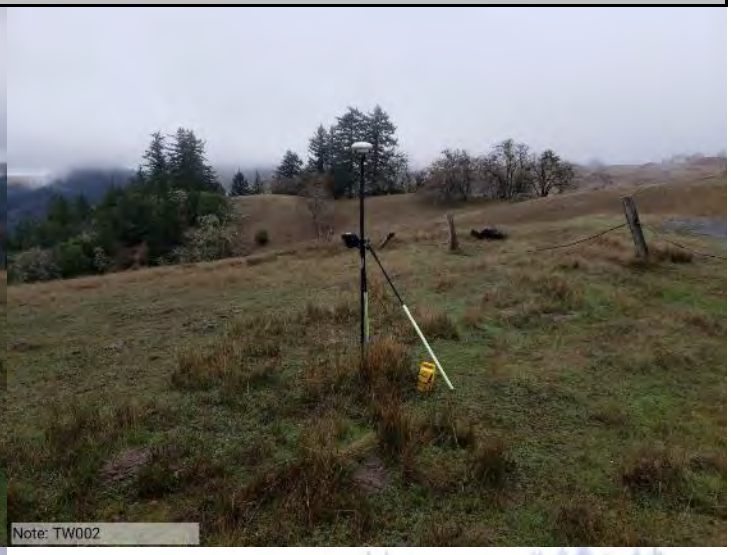
Northing	Easting	Elevation
4507179.392	422058.850	825.954

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	TW003
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Iaqua Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4500131.114	426824.103	762.619

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-302018
RMSE Hz	0.010
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:



Point ID	TW004
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fortuna

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4491374.720	397422.849	9.864

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-28-2018
RMSE Hz	0.023
RMSE Z	0.025
GPS Method	RTK

PHOTOS:



Point ID	TW005
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Capetown

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4483585.056	393374.638	610.433

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	TW005B
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bull Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4458026.060	407586.867	715.431

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	TW006
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Larabee Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

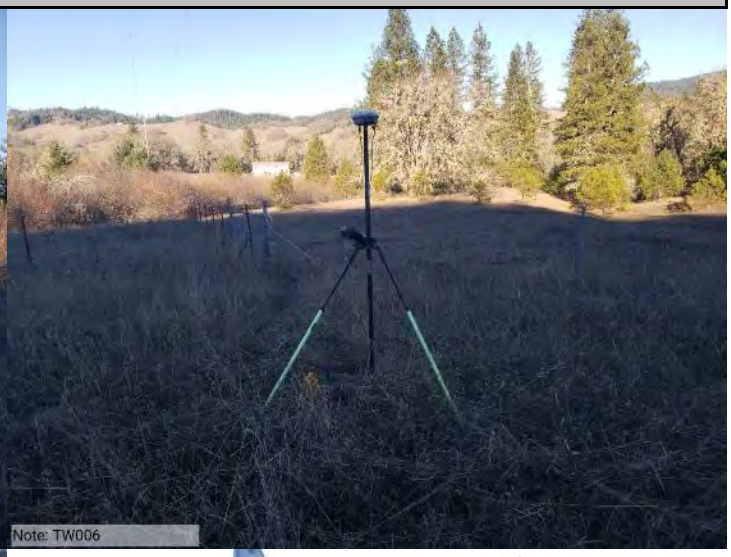
Northing	Easting	Elevation
4476870.062	442373.812	750.483

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	01-02-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	Fast Static

PHOTOS:









Point ID	TW007
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359334.681	491555.313	465.688

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	Fast Static

PHOTOS:









Point ID	TW008
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Taylor Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4478479.145	403217.323	593.588

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.009
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:









Point ID	TW009
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4460713.563	384702.704	5.322

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	Fast Static

PHOTOS:



Point ID	TW010
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Buckeye Mtn

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4459110.621	394628.610	58.861

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-31-2018
RMSE Hz	0.011
RMSE Z	0.022
GPS Method	Fast Static

PHOTOS:



Point ID	TW011
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Gerber

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429650.616	572941.742	71.102

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

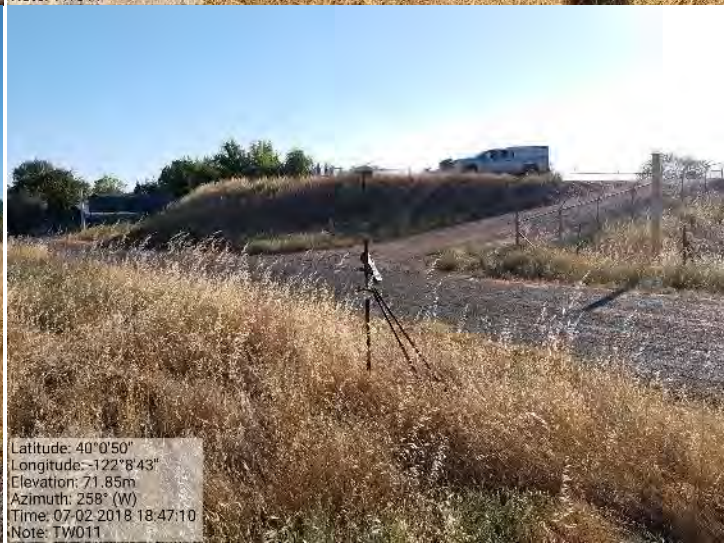
Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	TW012
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Los Molinos

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4429799.121	577053.697	65.768

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-02-2018
RMSE Hz	0.016
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	TW013
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Devils Parade Ground

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432459.209	609320.865	1225.17

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	TW014
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Harris

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

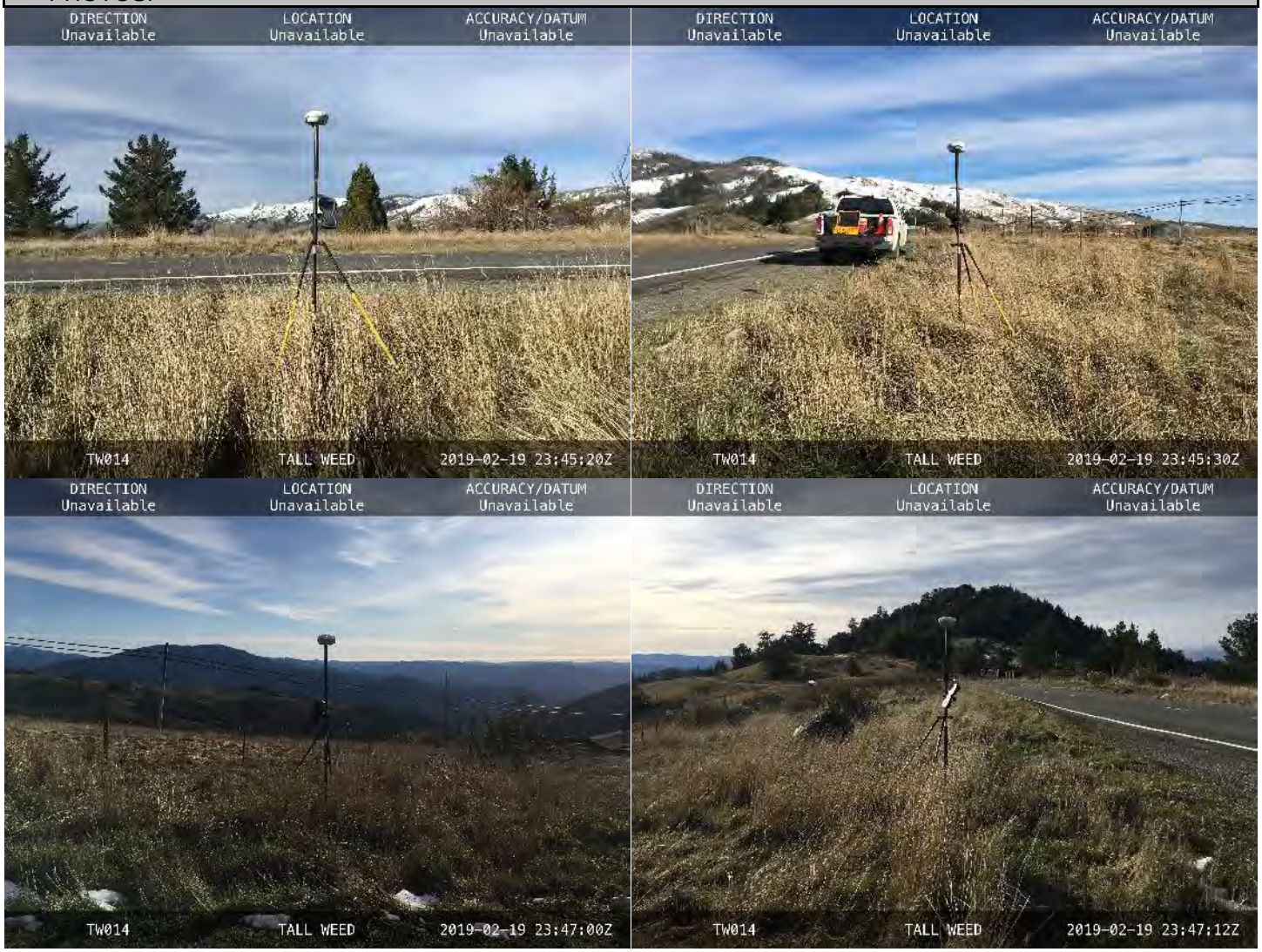
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440460.477	438269.545	754.257

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	FS

PHOTOS:



Point ID	TW015
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Kirkwood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409131.386	573521.736	65.821

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-10-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	TW016
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408136.762	621161.901	685.309

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	TW017
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Johnsonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4413420.571	699992.254	1647.198

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-15-2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:









Point ID	TW018
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399832.439	570896.028	74.432

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	TW019
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Orland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397633.235	573529.151	64.647

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:









Point ID	TW020
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Ord Ferry

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398178.227	591372.259	41.235

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:









Point ID	TW021
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398713.193	603273.005	76.668

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	TW022
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blairsden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404645.977	709290.887	1476.276

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.019
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	TW023
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Reconnaissance Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404954.875	734000.142	1491.228

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.019
RMSE Z	0.029
GPS Method	RTK

PHOTOS:









Point ID	TW024
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Alderpoint

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4442859.215	456728.754	955.633

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-03-2018
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	TW025
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Laytonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389298.914	459116.443	513.244

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.023
RMSE Z	0.034
GPS Method	RTK

PHOTOS:









Point ID	TW026
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Newville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

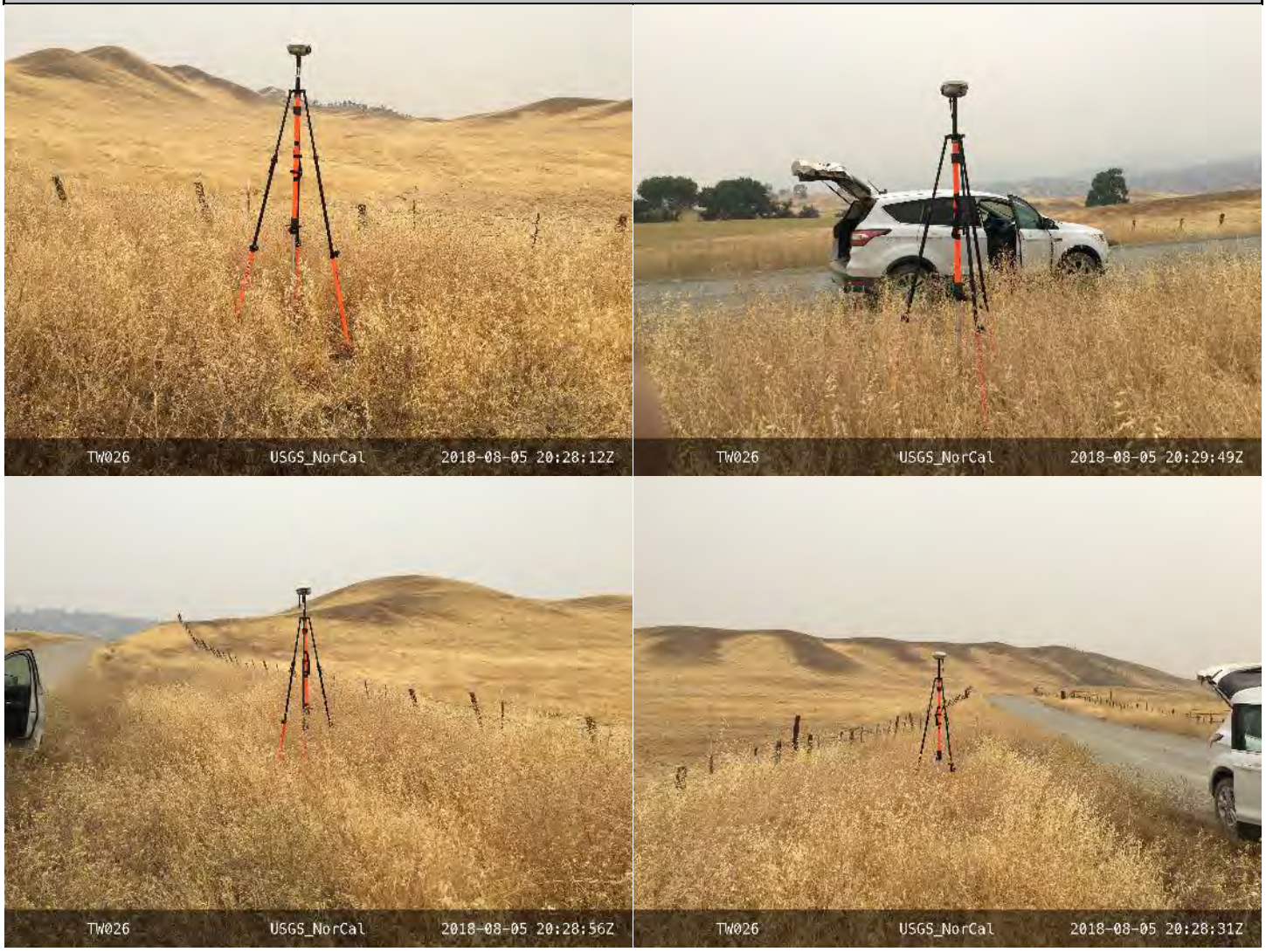
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407943.690	536499.886	215.916

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	RTK (RTN)

PHOTOS:



Point ID	TW027
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386291.364	569045.031	51.199

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.020
RMSE Z	0.027
GPS Method	RTN

PHOTOS:



Point ID	TW028
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Hamilton City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386693.559	580225.528	41.576

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.024
RMSE Z	0.025
GPS Method	RTN

PHOTOS:



Point ID	TW029
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Ord Ferry

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387289.413	590462.435	35.577

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW030
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387339.836	603546.136	44.757

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/5/2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	TW031
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Shippee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4384980.056	614118.791	58.514

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-15-2019
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	TW032
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385910.819	626511.127	426.576

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.019
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	TW033
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Haskins Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4414618.750	654801.895	1575.418

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.006
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	TW034
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Strawberry Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4383205.839	661669.475	1081.244

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.012
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	TW035
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Antelope Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4391979.646	725606.703	1530.351

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.019
RMSE Z	0.028
GPS Method	RTK

PHOTOS:









Point ID	TW036
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Loyalton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4390124.294	740808.366	1656.836

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:









Point ID	TW037
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375483.267	457809.939	692.252

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	TW038
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Van Arsdale Reservoir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399928.378	492863.521	1166.177

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	TW039
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Madison

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4281509.236	589721.471	46.116

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	TW040
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Glenn

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376375.330	580344.337	29.490

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	TW041
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Llano Seco

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375205.568	591969.577	31.001

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	TW042
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Nelson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375402.117	601983.702	30.815

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW043
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Shippee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375682.497	612753.930	38.642

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-14-2019
RMSE Hz	0.019
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	TW044
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375439.273	655272.632	956.316

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-13-2018
RMSE Hz	0.012
RMSE Z	0.027
GPS Method	Fast static

PHOTOS:









Point ID	TW045
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sattley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388256.252	715456.491	2044.985

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:









Point ID	TW046
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sierraville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376294.059	733618.191	1956.06

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:









Point ID	TW047
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sardine Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4377443.836	745573.215	1857.884

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	TW048
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Nevada
County	Washoe
Quad	Mt Rose NW

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376080.036	758081.653	1534.231

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	TW049
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4361839.331	468539.052	432.718

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTK

PHOTOS:



Point ID	TW050
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358440.237	539155.263	359.447

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	TW051
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Willows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375601.221	567535.552	43.517

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.021
RMSE Z	0.024
GPS Method	RTN

PHOTOS:



Point ID	TW052
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357409.502	566381.329	31.446

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW053
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Sanborn Slough

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

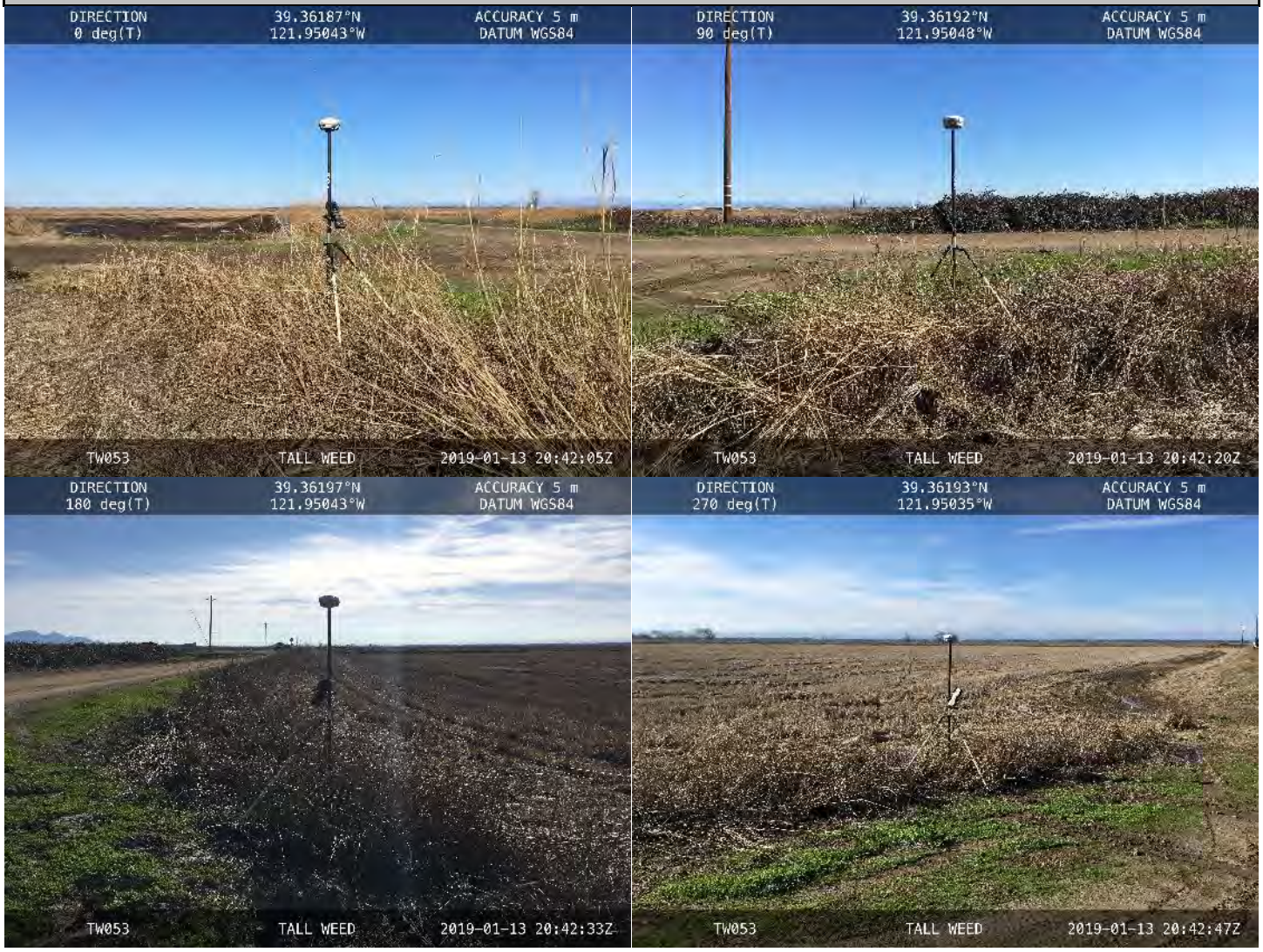
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357461.853	590422.114	20.352

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW054
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Pennington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357624.028	601269.356	21.739

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	TW055
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Gridley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357408.481	613184.050	28.599

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.015
RMSE Z	0.015
GPS Method	RTN

PHOTOS:



Point ID	TW056
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Honcut

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357476.012	625738.232	32.144

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-13-2019
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW057
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Logandale

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4355752.017	566426.911	32.523

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/23/2019
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	TW058
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4343615.891	565034.184	36.051

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	TW059
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Moulton Weir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4347781.060	578399.421	17.701

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	TW060
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4344521.144	613293.221	21.044

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	TW061
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sanborn Slough

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4345674.345	595694.412	19.041

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	TW062
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Smartsville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4342383.621	643810.984	80.635

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	TW063
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4338916.203	715298.126	1958.76

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:









Point ID	TW064
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Tahoe City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4342442.360	739259.265	1889.379

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	TW065
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Manor Slough

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333589.487	555815.169	154.915

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-30-2018
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	STATIC

PHOTOS:



Point ID	TW066
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334016.437	567943.638	34.545

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	TW067
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Williams

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4335166.853	572491.742	24.666

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	RTN

PHOTOS:









Point ID	TW068
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Colusa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333263.013	579603.078	17.91

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	RTN

PHOTOS:



Point ID	TW069
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Meridian

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

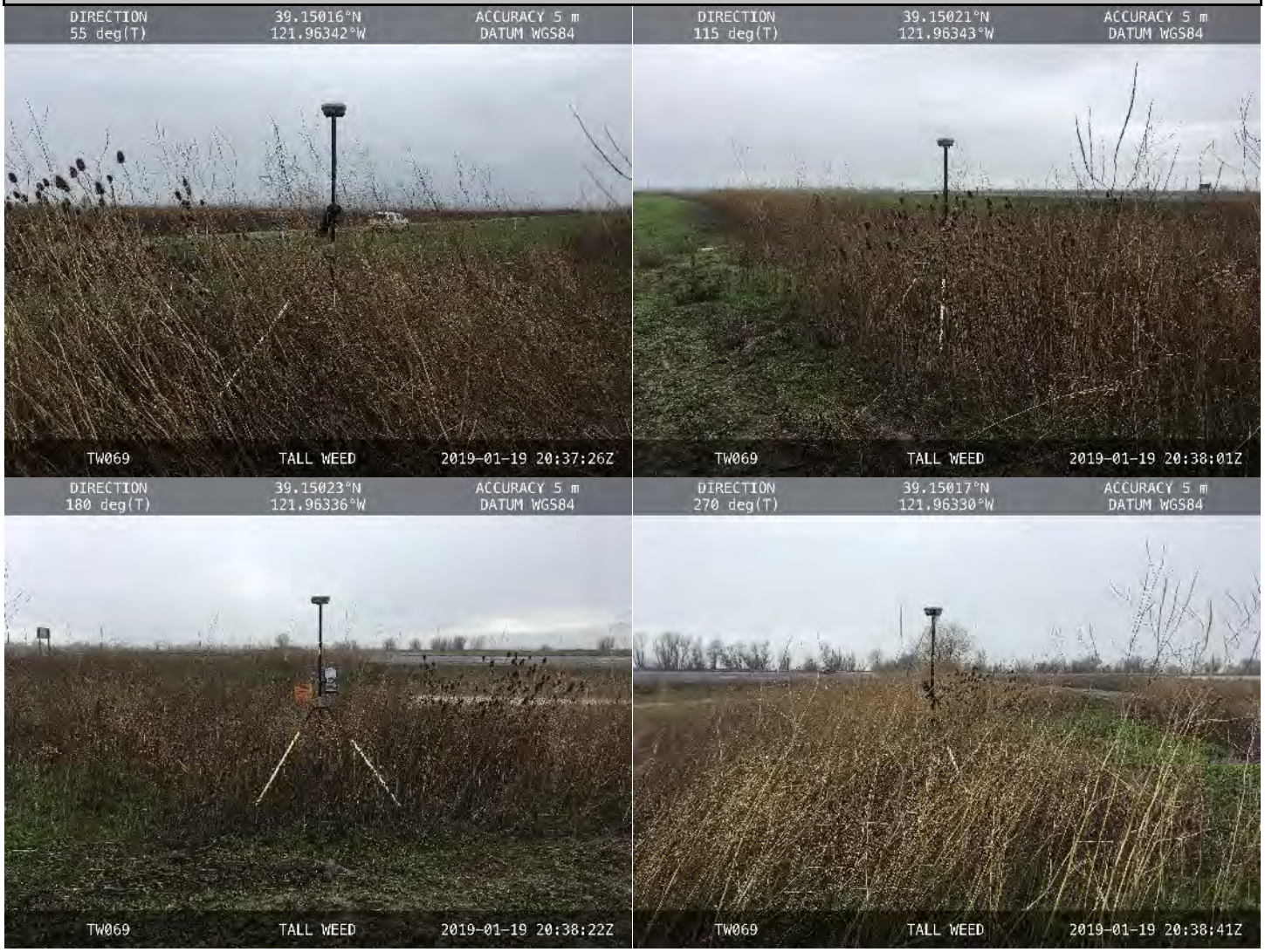
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333956.909	589576.650	14.080

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	TW070
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Meridian

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4333243.354	595259.662	12.343

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW071
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331895.609	607619.355	13.125

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	RTN

PHOTOS:



Point ID	TW072
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Sutter

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4331650.025	614783.039	15.833

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-11-2019
RMSE Hz	0.022
RMSE Z	0.029
GPS Method	RTN

PHOTOS:



Point ID	TW073
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Browns Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4336528.161	634407.314	32.742

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	TW074
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Rough and Ready

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
US Survey Feet

Northing	Easting	Elevation
4332744.917	657219.632	490.947

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_5004K15936
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	3/4/2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTK

PHOTOS:



Point ID	TW074
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Rough And Ready

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4332744.917	657219.632	490.947

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	TW075
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Guinda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4300899.442	568594.318	119.223

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTN

PHOTOS:



Point ID	TW076
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Dunnigan

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4304159.164	589506.266	19.261

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTN

PHOTOS:



Point ID	TW077
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Pleasant Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

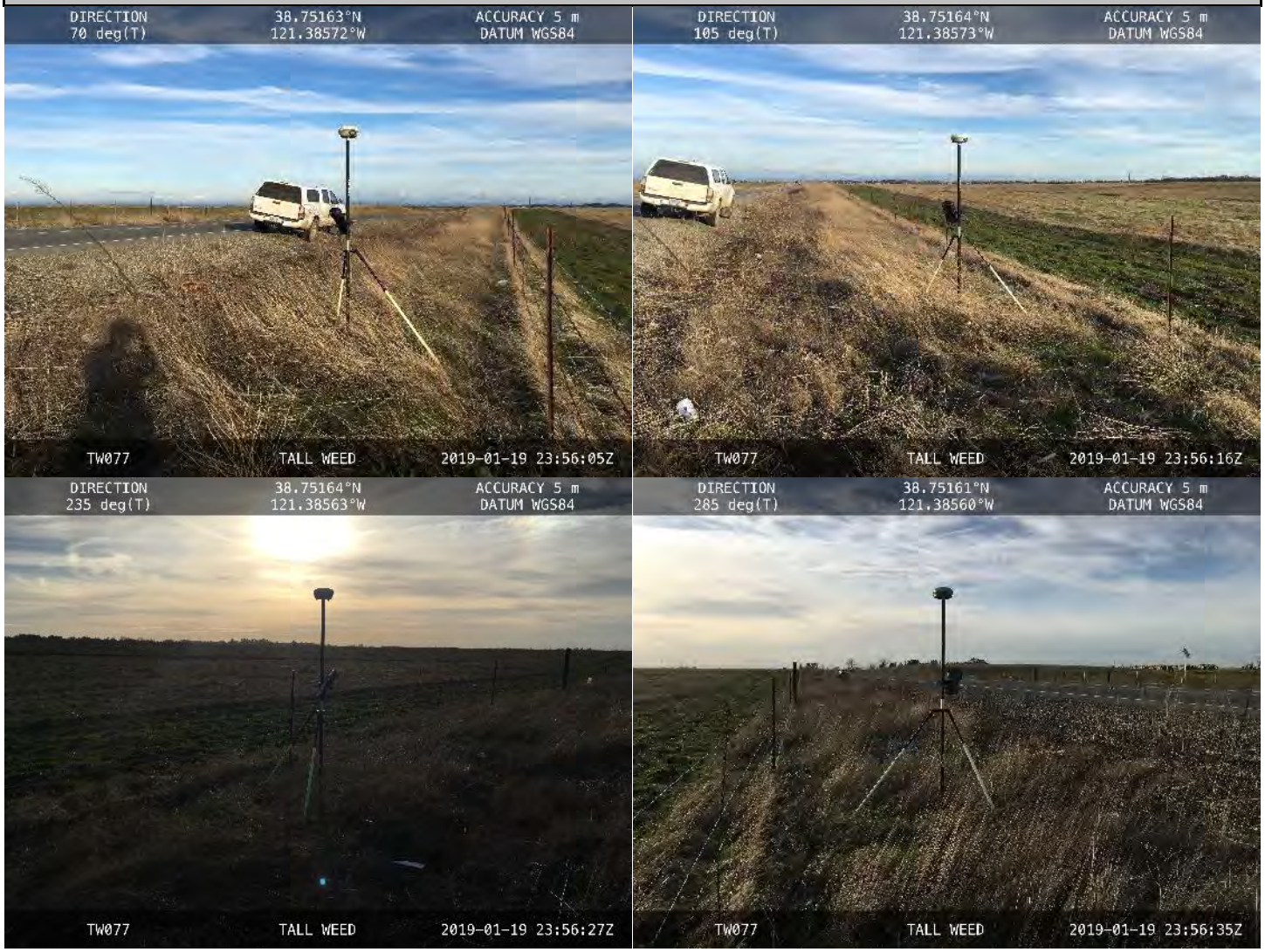
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290450.666	640284.889	30.087

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	TW078
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Pleasant Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

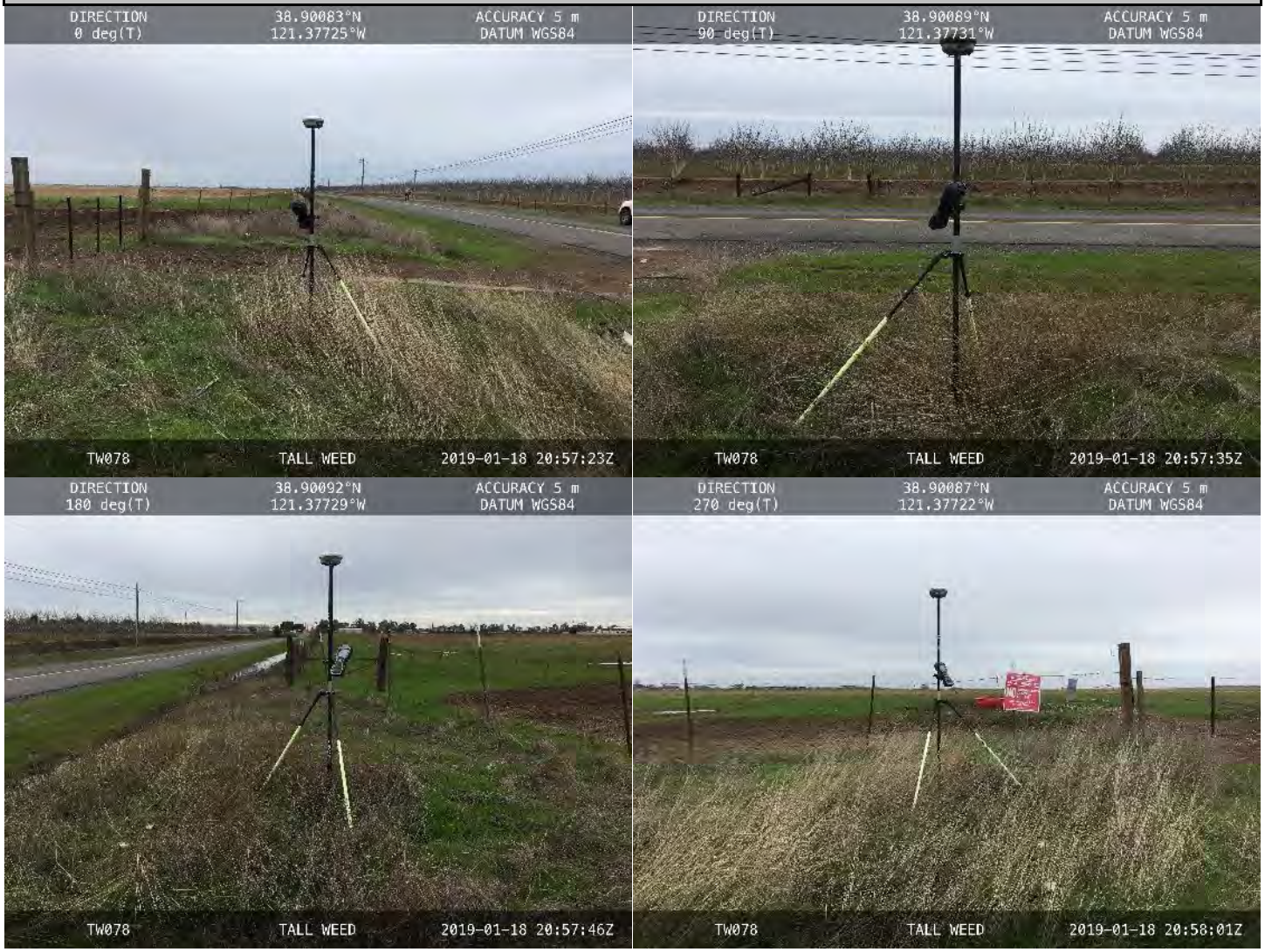
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4307027.173	640713.826	31.308

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.022
RMSE Z	0.021
GPS Method	RTN

PHOTOS:



Point ID	TW079
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Greenwood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4307018.930	673964.349	476.938

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK (RTN)

PHOTOS:









Point ID	TW080
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Devil Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4308983.534	713973.567	1450.951

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-24-2018
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	TW081
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Guinda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4292031.697	572060.718	94.209

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-16-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	TW082
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yolo
Quad	Zamora

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4289703.654	590718.693	62.486

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	RTN

PHOTOS:



Point ID	TW083
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Verona

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290100.468	626468.363	5.405

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-20-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTN

PHOTOS:



Point ID	TW084
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Rutherford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4256469.924	550251.564	53.512

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	TW085
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Mount Vaca

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4255666.951	586527.251	90.252

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-21-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	TW086
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dixon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4254304.398	602678.387	17.293

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.025
GPS Method	RTK

PHOTOS:



Point ID	TW087
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Solano
County	Salano
Quad	Saxon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4256787.572	612314.984	9.162

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-28-2018
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	TW088
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4238703.431	510556.446	47.062

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	TW089
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4214989.517	516668.544	30.740

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	TW090
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Birds Landing

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4222944.015	607987.697	45.650

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Point ID	TW091
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Almanor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4454136.694	653003.455	1390.472

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.007
RMSE Z	0.014
GPS Method	RTK

PHOTOS:









Point ID	TW092
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Nevada
County	Washoe
Quad	Dog Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4378762.401	757730.163	1508.367

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	TW701
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Lassen
Quad	Pittville

	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
X	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4551818.479	640532.050	1088.894

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	RTN

PHOTOS:



Point ID	TW702
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Modoc
Quad	Timbered Crater

	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
X	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4564982.263	633677.045	1079.840

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	RTN

PHOTOS:



Point ID	TW703
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Fall River Mills

	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
X	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4551032.465	633345.426	1008.897

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.016
RMSE Z	0.014
GPS Method	RTN

PHOTOS:



Point ID	TW704
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Fall River Mills

	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
X	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4550212.498	624729.185	1012.104

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-05-2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	RTN

PHOTOS:



Point ID	TW016
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408136.762	621161.901	685.309

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	TW802
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4390319.27	614945.525	93.592

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/28/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:









Point ID	TW803
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Chico

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399281.801	605859.299	102.651

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-10-2019
RMSE Hz	0.020
RMSE Z	0.028
GPS Method	RTK

PHOTOS:



Point ID	TW804
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Hamlin Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388521.539	610959.388	59.605

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/28/2019
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	TW088
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4238703.431	510556.446	47.062

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	TW901
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Two Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4239208.232	511112.508	61.143

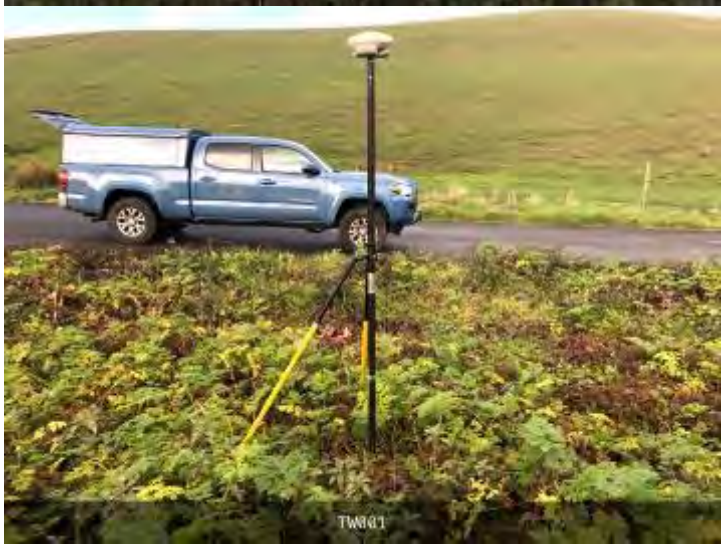
Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:









Point ID	TW902
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4214989.517	516668.544	30.74

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	TW903
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4236265.630	506544.362	5.476

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.027
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	TW904
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tamales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233158.658	502924.505	11.013

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	TW904A
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tamales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4232099.282	502728.775	2.610

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	TW905
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4234646.348	502903.761	116.968

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.021
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	TW906
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Two Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4236344.232	511095.997	18.369

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-02-2019
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	TW907
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233074.898	508316.547	23.840

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-09-2019
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	TW908
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4229506.601	516359.853	48.804

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	FastStatic

PHOTOS:









Point ID	TW910
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4232609.928	516552.326	52.304

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	RTK

PHOTOS:









Point ID	TW912
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Petaluma

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4221681.593	525778.258	116.925

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	FastStatic

PHOTOS:









Point ID	TW913
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Inverness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4218733.149	512951.400	15.308

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-09-2019
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	TW914
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226822.594	504035.070	91.843

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Shrub Point Log Sheets

Point ID	SH001
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Hydesville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

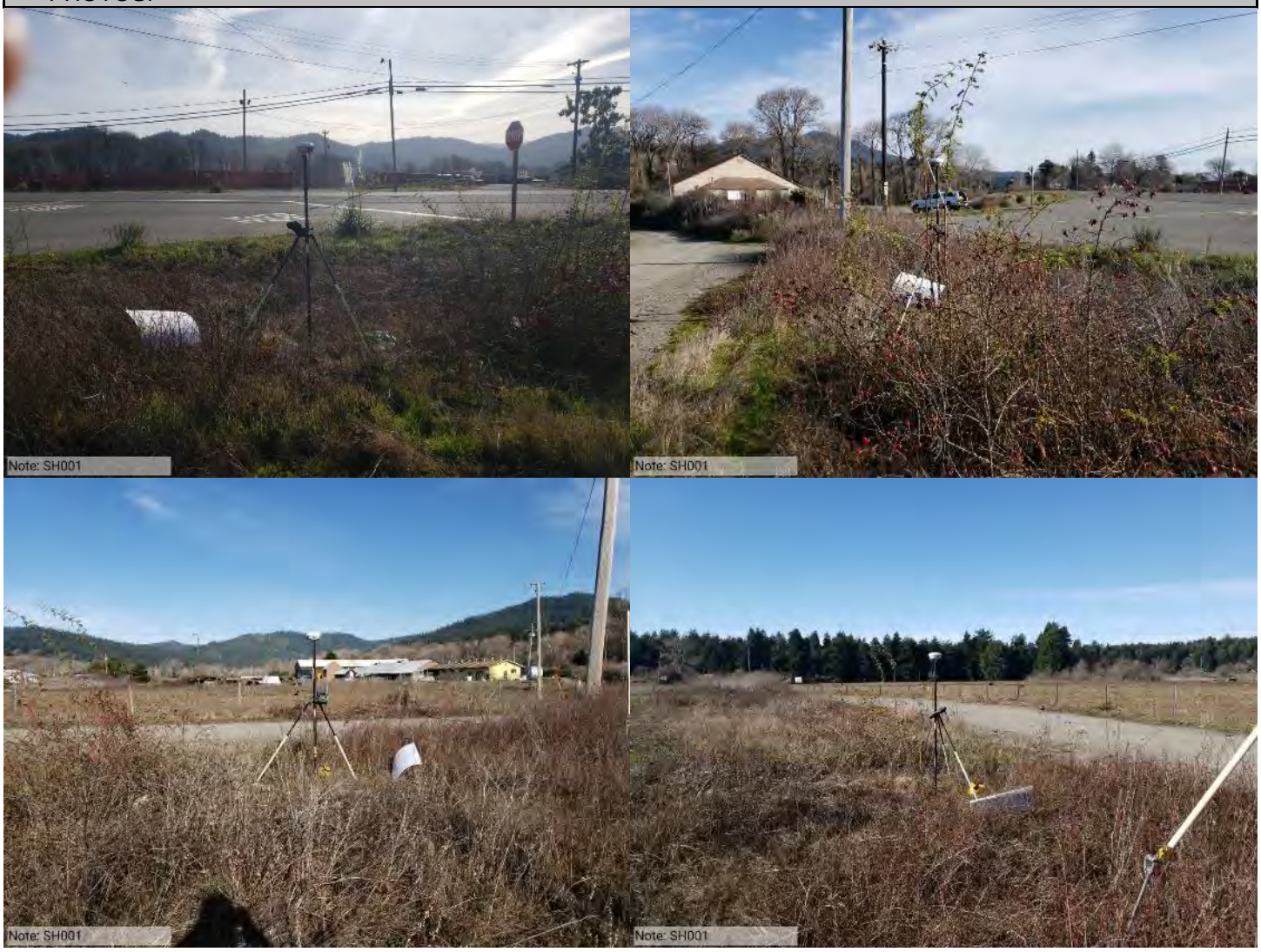
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4487986.234	409796.341	38.514

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12-29-2018
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:



Point ID	SH002
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464878.501	389885.586	37.688

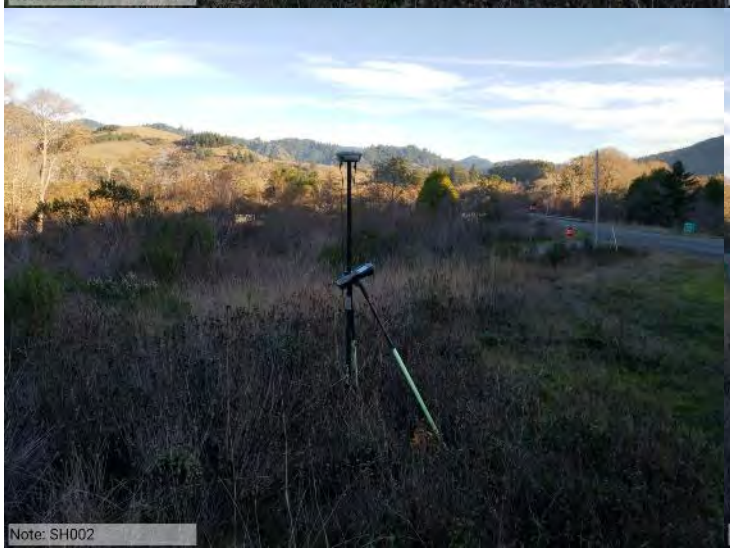
Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

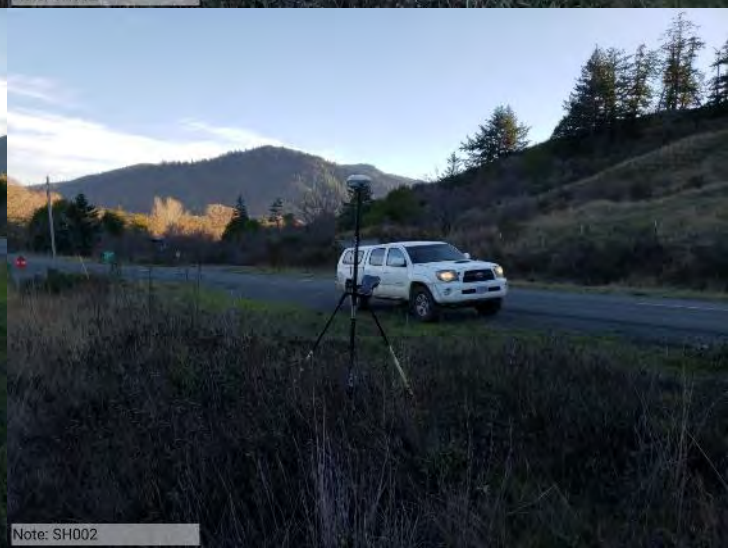
Date (MM-DD-YYYY)	01-01-2019
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:









Point ID	SH003
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

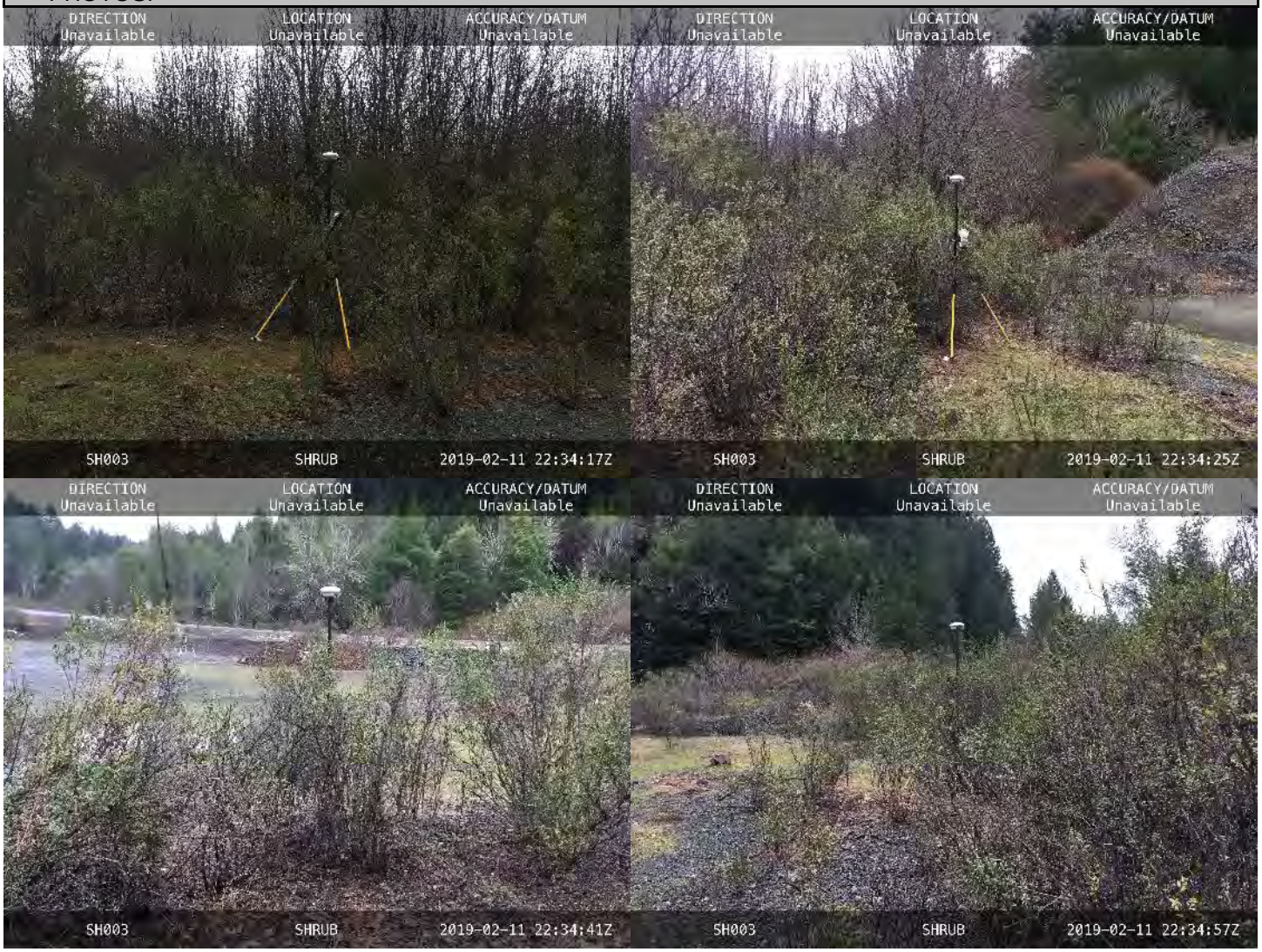
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464723.765	443039.312	362.472

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	FS

PHOTOS:



Point ID	SH004
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Alderpoint

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

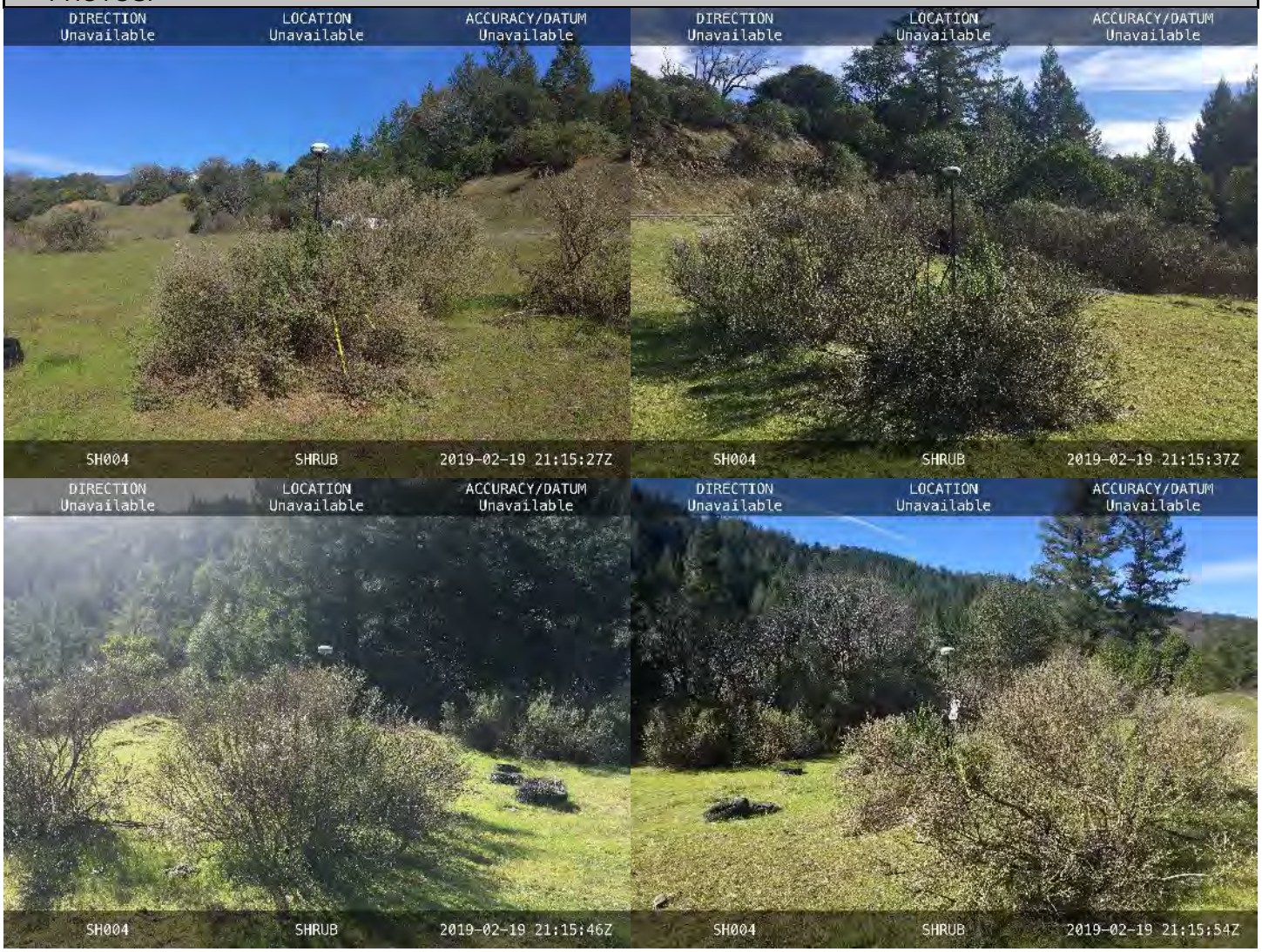
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4449763.139	449590.980	193.613

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	FS

PHOTOS:



Point ID	SH005
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Jewwet Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4435280.004	444592.847	679.182

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/19/2019
RMSE Hz	0.030
RMSE Z	0.041
GPS Method	FS

PHOTOS:









Point ID	SH006
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359325.842	491542.601	465.314

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.020
RMSE Z	0.021
GPS Method	Fast Static

PHOTOS:



Point ID	SH007
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Devils Parade Ground

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432458.411	609302.710	1224.122

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	SH008
Project No.	R033371.00
Project Name	USGS 3DEP NoCal
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4366542.272	473132.105	621.339

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/21/2019
RMSE Hz	0.008
RMSE Z	0.017
GPS Method	FS

PHOTOS:









Point ID	SH009
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407973.509	629695.033	1004.665

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	SH010
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4410723.446	644824.089	1642.533

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.009
RMSE Z	0.017
GPS Method	FS

PHOTOS:



Point ID	SH011
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Haskins Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4414621.573	654788.612	1575.389

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.006
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Point ID	SH012
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dogwood Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4411902.244	661070.879	1789.322

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	FS

PHOTOS:



Point ID	SH013
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dixie Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4420416.374	731537.368	1811.562

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:









Point ID	SH014
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Frenchman Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4425002.610	738028.633	1715.063

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	RTK

PHOTOS:









Point ID	SH015
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Ord Ferry

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4400407.994	587060.592	42.957

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:









Point ID	SH016
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blairsden

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4403505.489	708368.126	1403.722

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.018
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	SH017
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Beckwourth Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408622.066	747374.611	1589.221

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	SH018
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Humbug Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

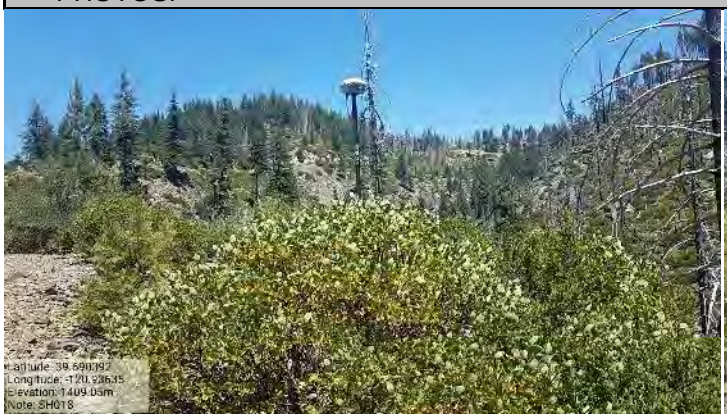
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4395449.253	676940.167	1393.361

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-14-2018
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	Fast Static

PHOTOS:









Point ID	SH019
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Mount Fillmore

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388825.433	683333.969	1823.404

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.016
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	SH020
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Loyalton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4390183.218	740827.905	1660.427

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	RTK

PHOTOS:









Point ID	SH021
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Van Arsdale Reservoir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399988.609	491081.706	1090.081

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Point ID	SH022
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4380588.813	634595.930	304.243

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.018
RMSE Z	0.024
GPS Method	RTK

PHOTOS:



Point ID	SH023
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4378225.558	663644.383	1018.795

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-13-2018
RMSE Hz	0.008
RMSE Z	0.027
GPS Method	Fast Static

PHOTOS:









Point ID	SH024
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	North Bloomfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359187.661	672719.193	876.173

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTK

PHOTOS:









Point ID	SH025
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sardine Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4377437.689	745589.016	1858.055

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	RTK

PHOTOS:









Point ID	SH026
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Willits

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

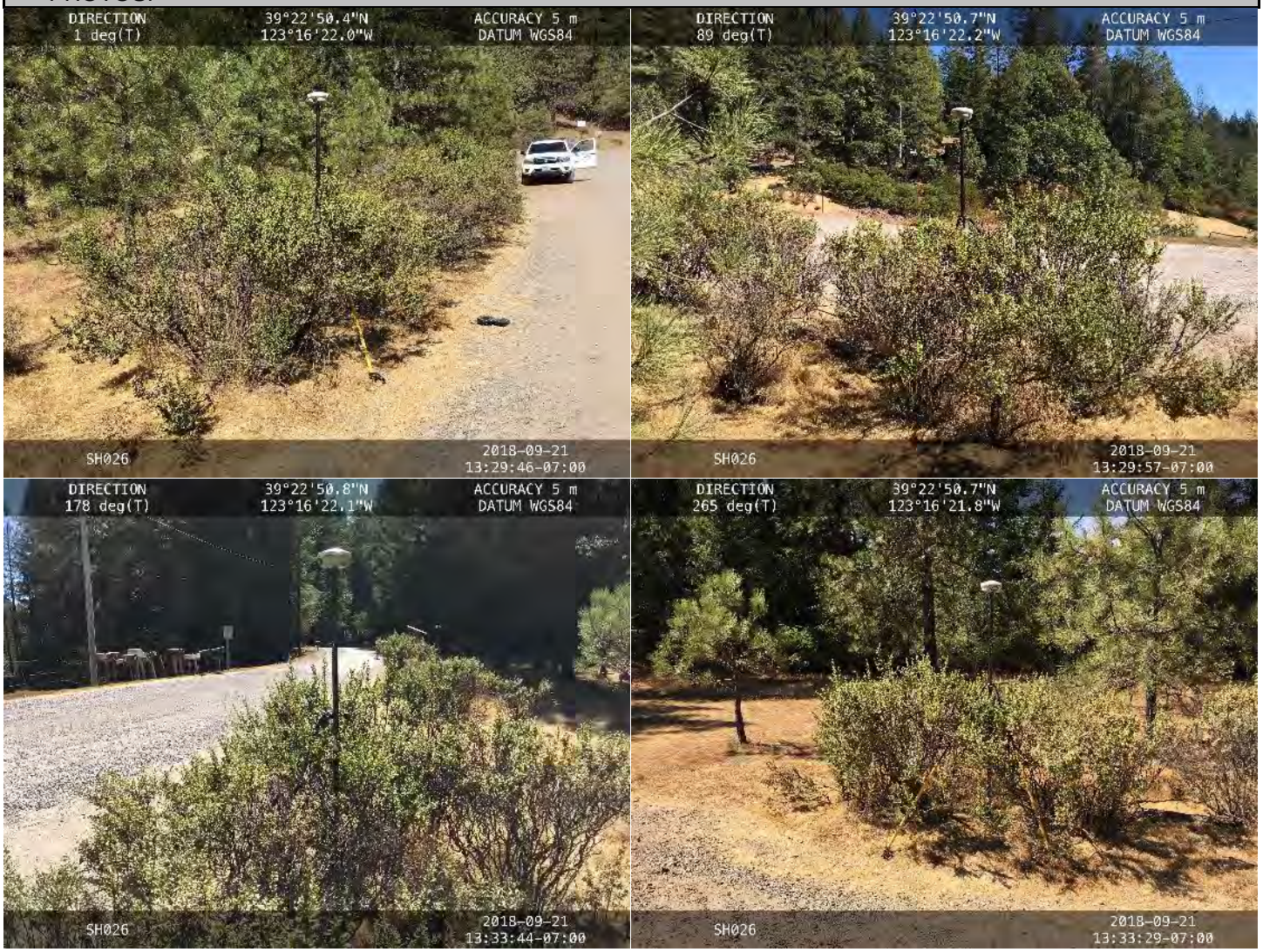
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359070.401	476507.725	701.843

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.024
RMSE Z	0.027
GPS Method	RTK

PHOTOS:



Point ID	SH027
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357792.439	535079.095	395.415

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.025
RMSE Z	0.030
GPS Method	RTK

PHOTOS:









Point ID	SH028
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Cisco Grove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4357814.911	715054.448	2176.878

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.028
RMSE Z	0.035
GPS Method	RTK

PHOTOS:









Point ID	SH029
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Boca

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4364687.701	756097.072	1624.202

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.014
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	SH030
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Sites

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4350966.557	558563.490	75.568

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/23/2019
RMSE Hz	0.019
RMSE Z	0.024
GPS Method	RTK

PHOTOS:






Point ID	SH031
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4339403.775	705631.543	1642.474

Operator	Lucas Rietmann
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	SH032
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Duncan Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4338949.602	715289.709	1960.739

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	RTK

PHOTOS:









Point ID	SH033
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Wilbur Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4318426.260	553420.229	379.180

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	FS

PHOTOS:



Point ID	SH034
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sutter
Quad	Verona

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

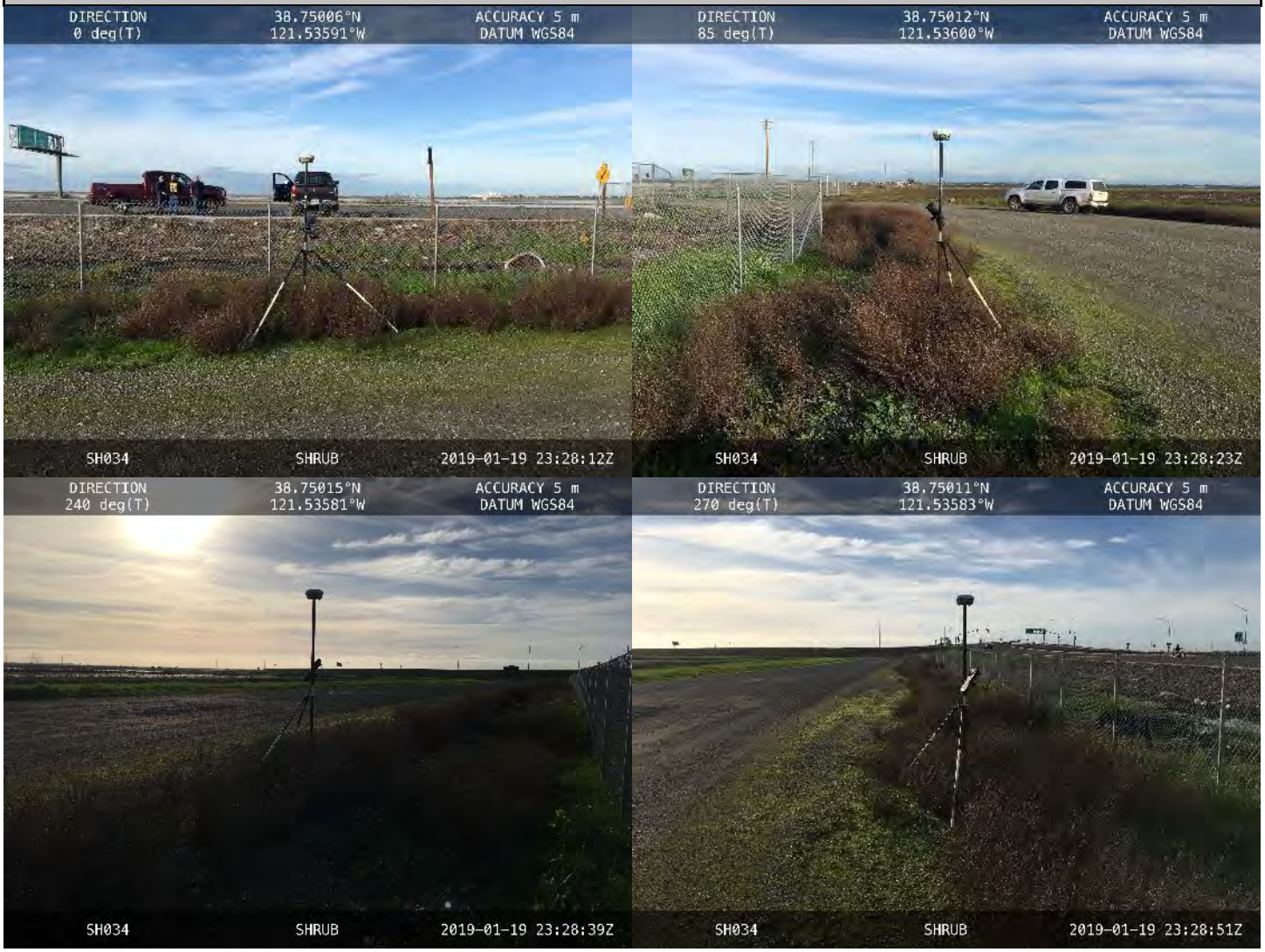
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4290063.831	627227.951	5.950

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-19-2019
RMSE Hz	0.019
RMSE Z	0.027
GPS Method	RTN

PHOTOS:



Point ID	SH035
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4242446.539	557844.558	40.022

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-04-2019
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	RTK

PHOTOS:



Point ID	SH036
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Dozier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4245437.664	602856.387	11.354

Operator	Scott Slowinski
Receiver Model	Trimble R8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-29-2018
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	SH037
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233869.619	563967.796	13.368

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	SH038
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4226811.191	504054.213	91.531

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	SH039
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4223416.967	516287.751	71.725

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	FastStatic

PHOTOS:









Point ID	SH040
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4217726.289	524024.916	85.927

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	SH041
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Solano
Quad	Fairfield South

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4224375.031	576968.441	8.588

Operator	Daniel Cassell
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

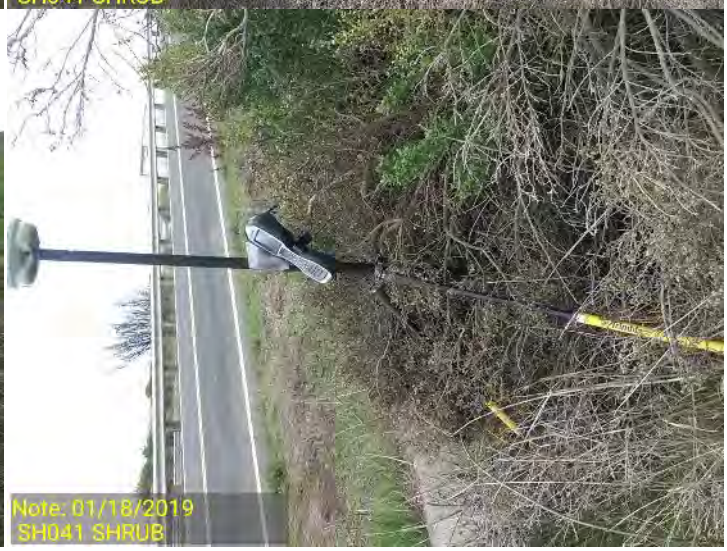
Date (MM-DD-YYYY)	01-18-2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	RTK

PHOTOS:









Point ID	SH042
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4196699.144	524580.506	70.920

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.024
RMSE Z	0.034
GPS Method	RTK

PHOTOS:









Point ID	SH043
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Bonita

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4186617.521	541758.416	64.754

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	SH044
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4376340.001	457999.676	692.103

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	Fast Static

PHOTOS:



Point ID	SH045
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ettersburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4444909.833	414906.545	180.645

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	FS

PHOTOS:



Point ID	SH046
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lassen
Quad	Fredonyer Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4470156.142	681988.840	1701.326

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	RTK

PHOTOS:









Point ID	SH047
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Hull Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4379096.188	504055.550	1718.206

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.009
RMSE Z	0.021
GPS Method	Fast Static

PHOTOS:









Point ID	SH048
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Georgetown

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4309140.262	688215.336	828.324

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.024
RMSE Z	0.025
GPS Method	RTK (RTN)

PHOTOS:



Point ID	SH049
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	Nevada
County	Washoe
Quad	Mount Rose

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4355519.667	766672.225	2662.929

Operator	Gabe Rietmann
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.012
RMSE Z	0.020
GPS Method	RTK

PHOTOS:









Point ID	SH050
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Salt Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4327319.917	556686.873	201.924

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	01-17-2019
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	FS

PHOTOS:



Point ID	SH051
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Riley Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4415779.172	531501.156	729.886

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	08-05-2018
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	RTK (RTN)

PHOTOS:



Point ID	SH052
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Alder Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386890.031	525183.947	1306.517

Operator	Marc Nabelek
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.250 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	RTK (RTN)

PHOTOS:



Point ID	SH701
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Modoc
Quad	Timbered Crater

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4567346.100	633122.057	1182.574

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.009
RMSE Z	0.018
GPS Method	RTN

PHOTOS:



Point ID	SH702
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4579862.506	603638.119	1394.568

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	R8_3068
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.008
RMSE Z	0.016
GPS Method	FS

PHOTOS:



Point ID	SH703
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	East Of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4553700.218	623738.649	1020.272

Operator	Wade Johnson
Receiver Model	Trimble R10
Receiver S/N	5249419602
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-06-2019
RMSE Hz	0.014
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Point ID	SH009
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407973.509	629695.033	1004.665

Operator	Camden Beeghly
Receiver Model	Trimble R8
Receiver S/N	5203481794
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	SH802
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4395174.333	626464.853	507.282

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_481147337
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	3/29/2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Point ID	SH803
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Pulga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407952.923	629675.287	1003.515

Operator	Lucas Rietmann & Ashley Reade
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	03-08-2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



Point ID	SH901
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Tomales

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226811.191	504054.213	91.531

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	SH902
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4223416.967	516287.751	71.725

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	FastStatic

PHOTOS:









Point ID	SH903
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4217726.289	524024.916	85.927

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	RTK

PHOTOS:









Point ID	SH904
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4196699.144	524580.506	70.92

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.024
RMSE Z	0.034
GPS Method	RTK

PHOTOS:









Point ID	SH905
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Bonita

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4186617.521	541758.416	64.754

Operator	Emily Gottesfeld
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:









Point ID	SH906
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4234815.888	502784.348	112.721

Operator	Zeke Ingram
Receiver Model	Trimble R-8
Receiver S/N	4811147337
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	02-03-2019
RMSE Hz	0.021
RMSE Z	0.031
GPS Method	RTK

PHOTOS:









Forest Point Log Sheets

Point ID	FO001
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bull Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

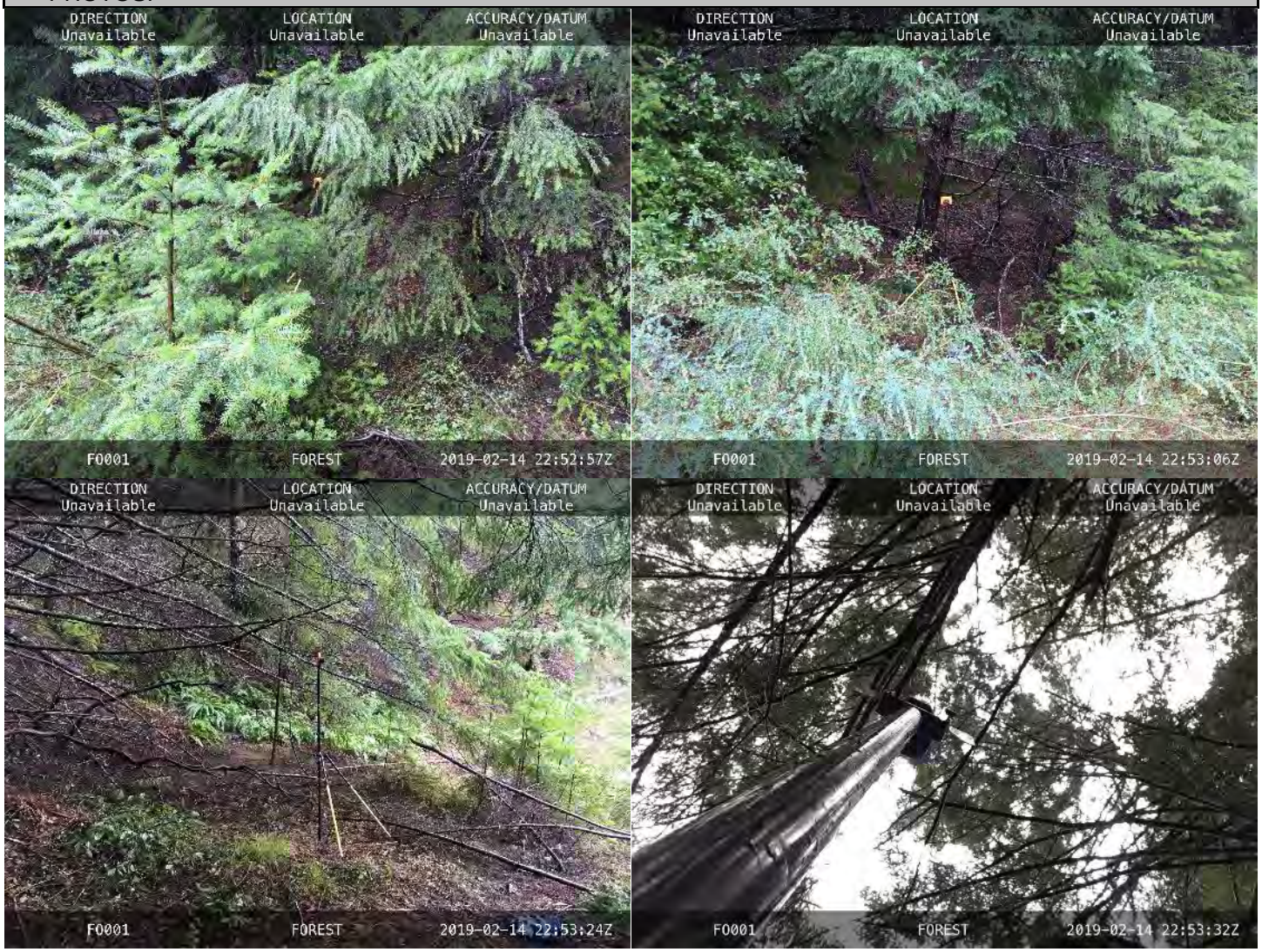
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4457324.256	406662.858	633.863

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO002
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Cannibal Island

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4505809.736	392378.532	47.245

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO003
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Hydesville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4488699.506	408582.300	86.929

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO004
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ferndale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4491967.545	393752.403	27.691

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-15-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO005
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Taylor Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4479135.475	403526.151	493.934

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO006
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Hydesville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4487994.493	409930.665	38.437

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-10--2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO007
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Redcrest

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4481447.068	422600.199	122.725

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO008
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Scotia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

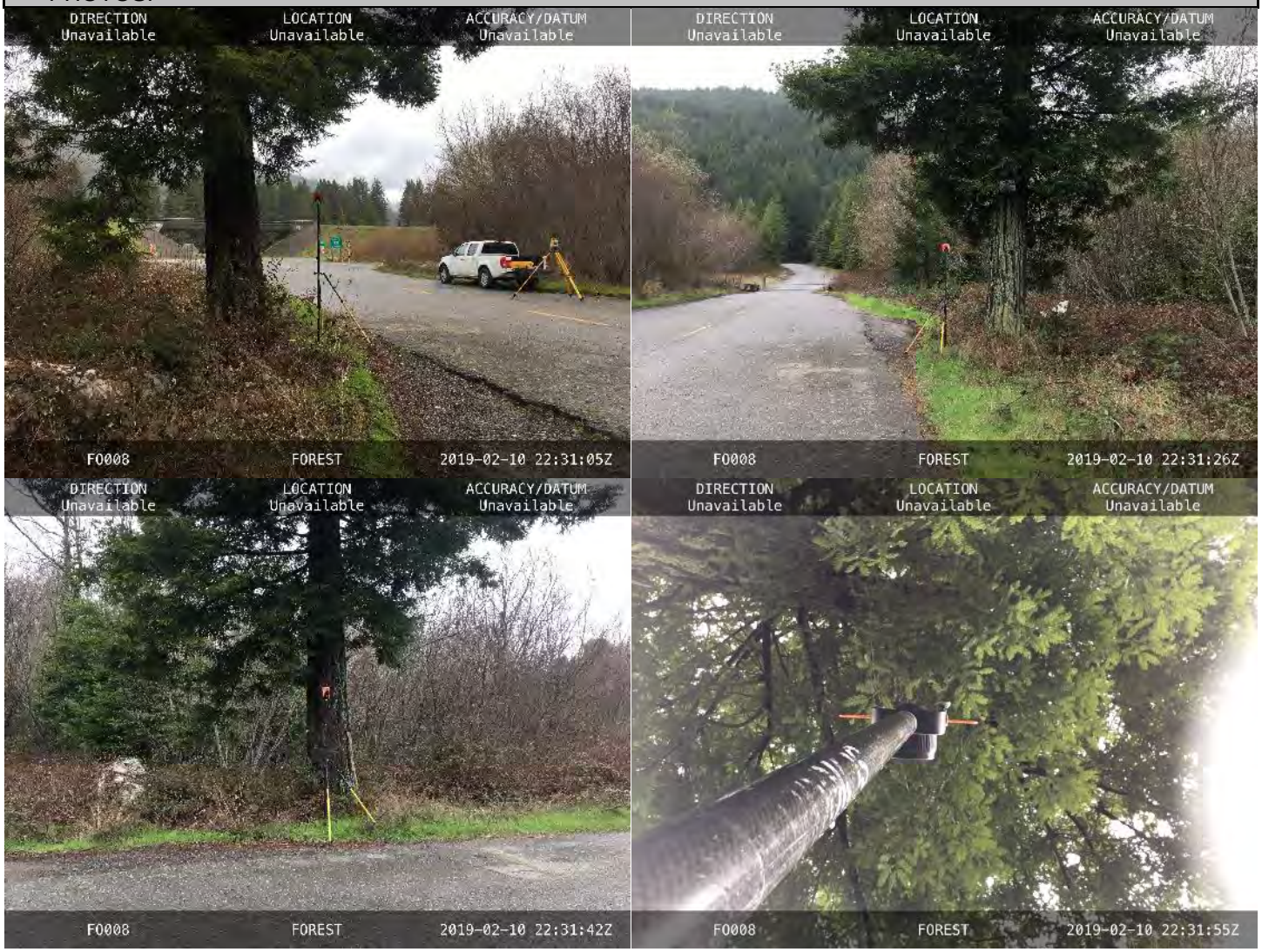
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4478579.691	410116.495	36.478

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-10--2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO009
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fortuna

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4495039.117	401080.228	17.439

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO010
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Shasta
Quad	Reading Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4482624.334	633188.656	2104.285

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.024
RMSE Z	0.029
GPS Method	Total Station

PHOTOS:









Point ID	FO011
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Mount Harkness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4477157.402	640003.848	1610.611

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.024
RMSE Z	0.029
GPS Method	Total Station

PHOTOS:









Point ID	FO012
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Red Cinder

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4473812.220	654541.972	1843.486

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.023
RMSE Z	0.031
GPS Method	Total Station

PHOTOS:









Point ID	FO013
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Swain Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4479005.186	663654.905	1767.38

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	07-04-2018
RMSE Hz	0.023
RMSE Z	0.030
GPS Method	Total Station

PHOTOS:









Point ID	FO014
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4463326.791	390878.301	27.737

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO015
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Briceland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4440256.485	423392.39	176.431

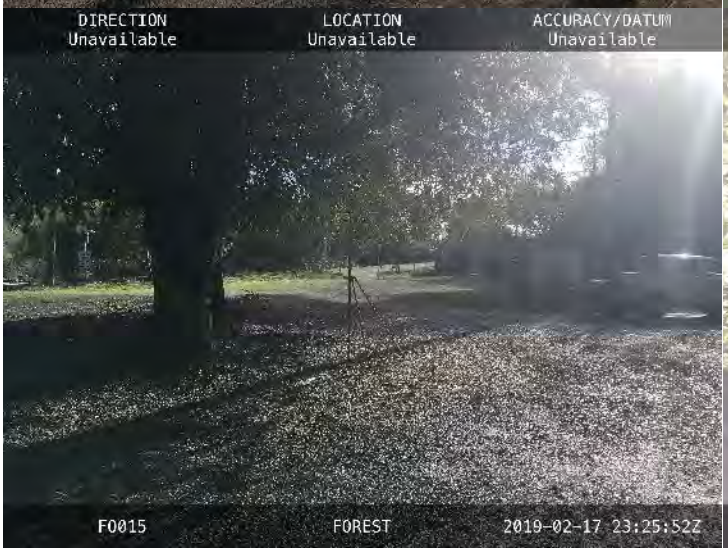
Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO016
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Weott

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4467783.945	421675.963	51.495

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-10--2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	FS

PHOTOS:









Point ID	FO017
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Petrolia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4460817.646	385432.555	28.288

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO018
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Buckeye Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4457242.680	398399.921	83.028

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO019
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Honeydew

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4454092.478	405197.680	107.531

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO020
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Fort Seward

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4441899.260	445657.975	567.145

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO021
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Blocksburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464666.08	443081.546	362.848

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO022
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Garberville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4437984.226	432031.775	99.511

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO023
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Mineral

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4468279.954	625929.987	1461.302

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.040
RMSE Z	0.039
GPS Method	Total Station

PHOTOS:









Point ID	FO024
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Childs Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4466950.778	636887.283	1783.348

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-03-2018
RMSE Hz	0.025
RMSE Z	0.028
GPS Method	Total Station

PHOTOS:









Point ID	FO025
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Chester

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4464784.292	649231.719	1419.393

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-05-2018
RMSE Hz	0.023
RMSE Z	0.030
GPS Method	Total Station

PHOTOS:









Point ID	FO026
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Bull Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4456957.113	405052.220	478.716

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO027
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Ettersburg

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

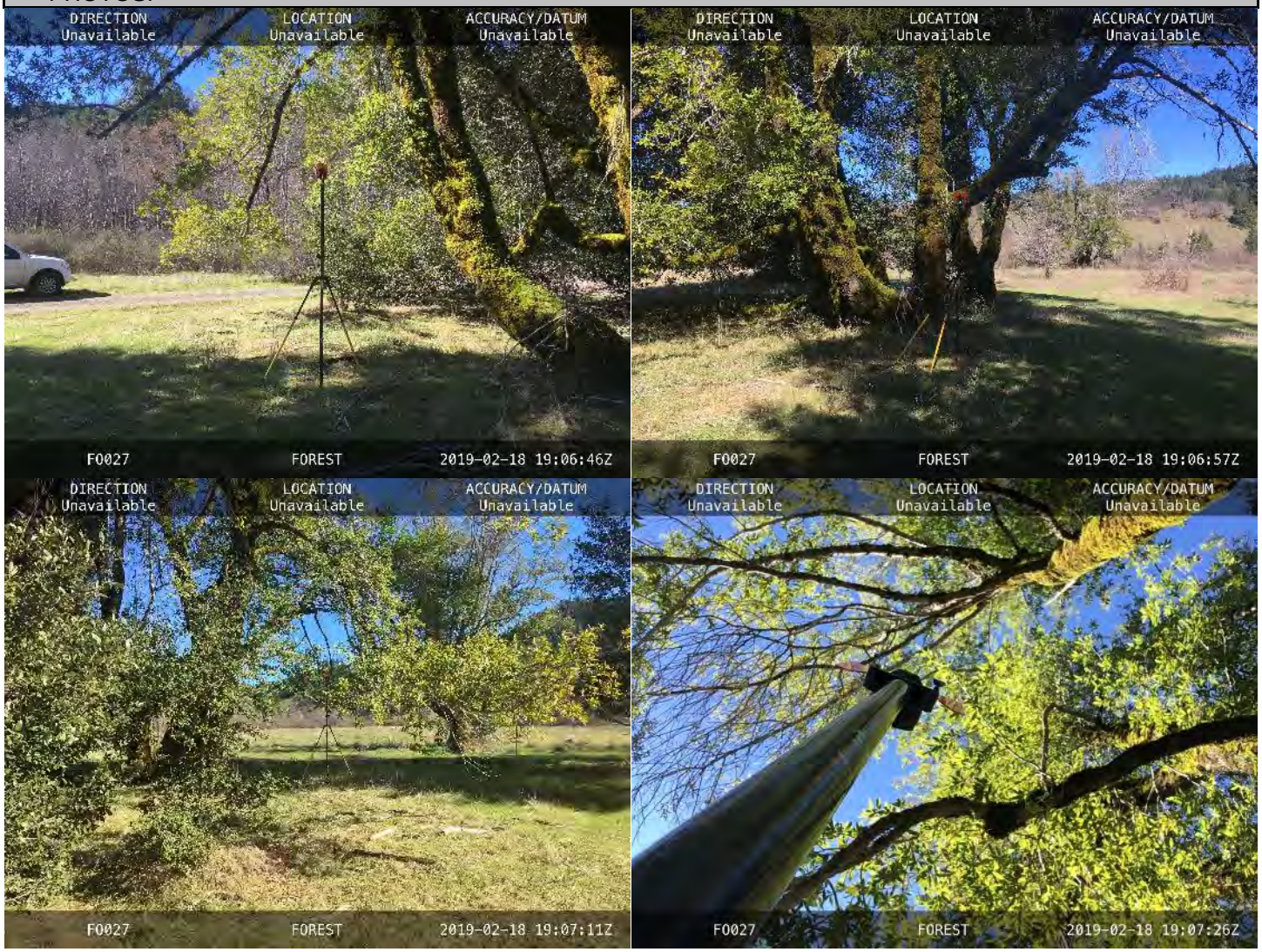
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4444935.718	414889.354	180.941

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO028
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Alderpoint

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4442915.361	456787.783	955.580

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650

Date (MM-DD-YYYY)	10-03-2018
RMSE Hz	0.027
RMSE Z	0.036
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO029
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	South Yolla Bolly Mountains

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4431938.843	515396.695	2007.124

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650

Date (MM-DD-YYYY)	09-24-2018
RMSE Hz	0.032
RMSE Z	0.033
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO030
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Barkley Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4449527.360	615116.162	1267.513

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.027
RMSE Z	0.034
GPS Method	Total Station

PHOTOS:



Point ID	FO031
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Onion Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451643.701	619779.675	1663.822

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.038
RMSE Z	0.035
GPS Method	Total Station

PHOTOS:



Point ID	FO032
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Onion Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4455591.365	627281.667	1478.541

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-08-2018
RMSE Hz	0.020
RMSE Z	0.029
GPS Method	Total Station

PHOTOS:









Point ID	FO033
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Humbug Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4451519.482	646683.744	1424.726

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.030
RMSE Z	0.036
GPS Method	Total Station

PHOTOS:



Point ID	FO034
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Almanor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4454015.988	653034.697	1390.287

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-06-2018
RMSE Hz	0.022
RMSE Z	0.032
GPS Method	Total Station

PHOTOS:









Point ID	FO035
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Shelter Cove

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

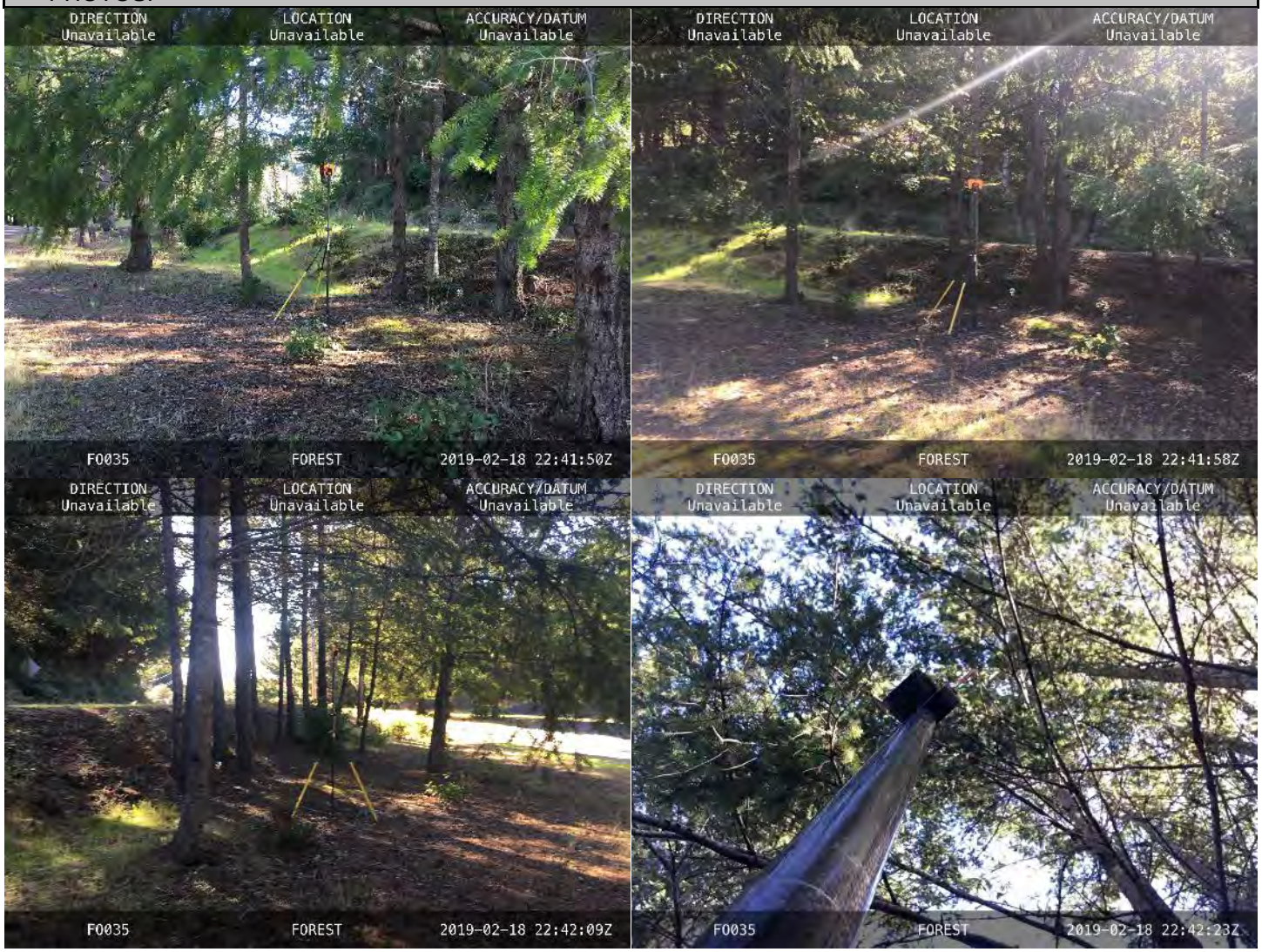
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432815.046	409371.087	196.368

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO036
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Briceland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4435263.681	417832.483	297.309

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO037
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Lake Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4436280.438	466641.870	1015.401

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO038
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Piercy

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4425055.232	431819.606	213.365

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO039
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Humboldt
Quad	Garberville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

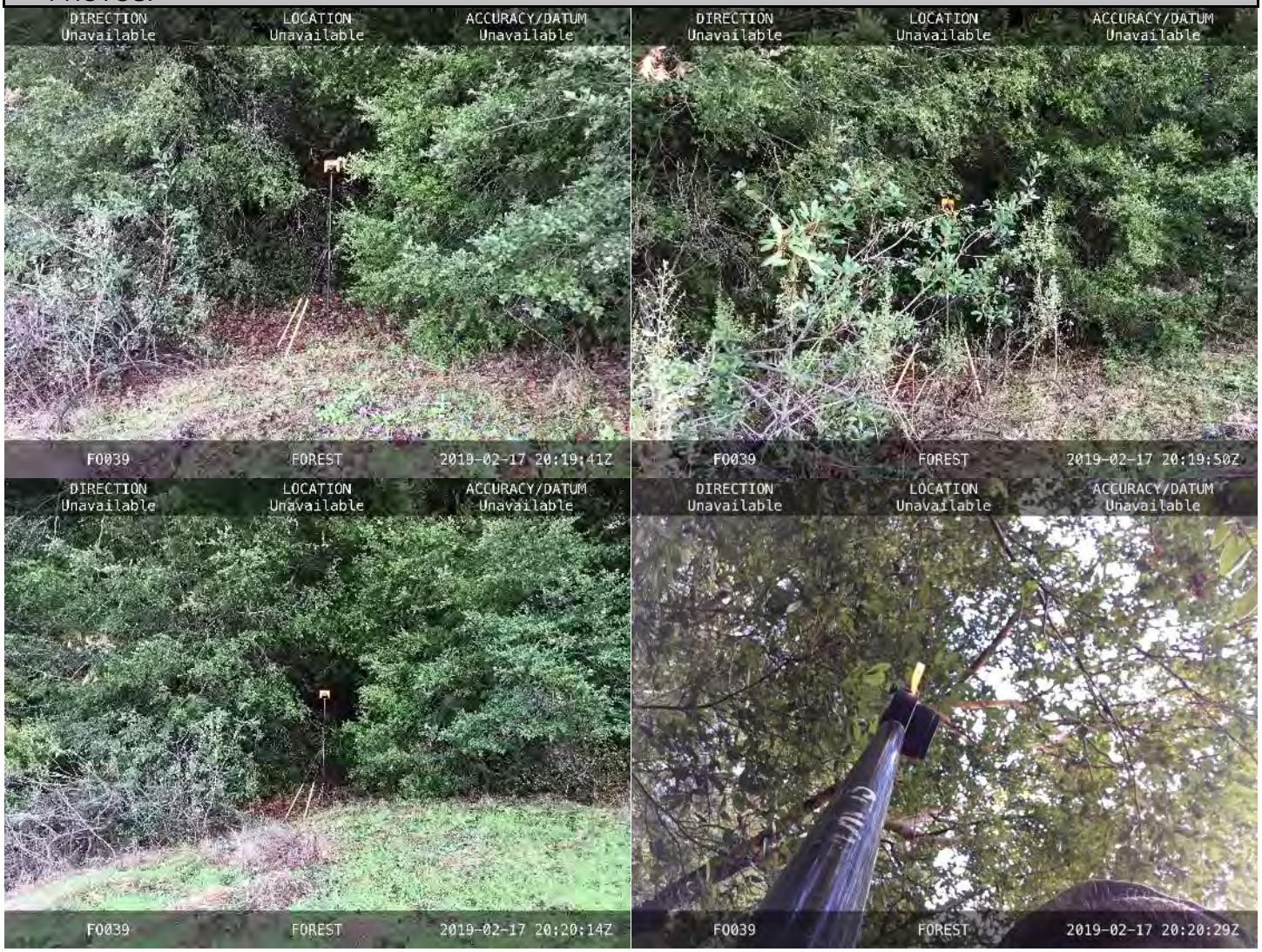
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4433937.467	432439.756	149.884

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	5033444846
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	02-17-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO040
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Mina

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4422819.806	469533.780	584.958

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.022
RMSE Z	0.025
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO041
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Buck Rock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4416563.026	504444.211	1891.187

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-23-2018
RMSE Hz	0.020
RMSE Z	0.027
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO042
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Devils Parade Ground

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4432370.753	609296.489	1224.444

Operator	Emily Gottesfeld
Receiver Model	Trimble R6, Model 2
Receiver S/N	5049457238
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-01-2018
RMSE Hz	0.040
RMSE Z	0.045
GPS Method	Total Station

PHOTOS:









Point ID	FO043
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Butte Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4437284.895	622213.637	1330.009

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.025
RMSE Z	0.029
GPS Method	Total Station

PHOTOS:









Point ID	FO044
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Butte Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4431086.531	625092.504	1589.04

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.022
RMSE Z	0.038
GPS Method	Total Station

PHOTOS:



Point ID	FO045
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Leggett

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4413243.974	438868.369	289.951

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	5203481794
Antenna Height	1.545 meters

Date (MM-DD-YYYY)	3/19/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO046
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Iron Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4407674.095	456435.444	1040.69

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	5203481794
Antenna Height	2.110 meters

Date (MM-DD-YYYY)	3/20/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO047
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Covelo East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407437.538	488745.180	437.590

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-25-2018
RMSE Hz	0.025
RMSE Z	0.027
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO048
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Mendocino Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4407236.813	500582.769	1057.868

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-23-2018
RMSE Hz	0.020
RMSE Z	0.026
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO049
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Log Spring

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4409192.011	516141.459	1643.033

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO050
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Hall Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406233.277	525394.183	1522.233

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.030
RMSE Z	0.030
GPS Method	TOTAL STATION

PHOTOS:









Point ID	FO051
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4408156.446	621160.512	685.824

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.030
RMSE Z	0.030
GPS Method	Total Station

PHOTOS:









Point ID	FO052
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Cohasset

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4423498.468	615325.775	1019.628

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.032
RMSE Z	0.039
GPS Method	Total Station

PHOTOS:









Point ID	FO053
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4410675.195	644864.477	1643.728

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.022
RMSE Z	0.024
GPS Method	Total Station

PHOTOS:









Point ID	FO054
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Haskins Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4414552.502	654824.719	1578.934

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO055
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Dogwood Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4411971.235	661023.242	1789.931

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-09-2018
RMSE Hz	0.021
RMSE Z	0.028
GPS Method	Total Station

PHOTOS:









Point ID	FO056
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Blue Nose Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4412534.244	688119.251	1771.433

Operator	Gabe Rietmann
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.021
RMSE Z	0.027
GPS Method	Total Station

PHOTOS:









Point ID	FO057
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Johnsonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4412924.401	698905.947	1424.183

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-15-2018
RMSE Hz	0.044
RMSE Z	0.050
GPS Method	Total Station

PHOTOS:









Point ID	FO058
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Grizzly Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4417875.011	712871.781	1786.161

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-17-2018
RMSE Hz	0.030
RMSE Z	0.037
GPS Method	Total Station

PHOTOS:









Point ID	FO059
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Frenchman Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4418222.117	742995.361	1807.59

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65

Date (MM-DD-YYYY)	07-18-2018
RMSE Hz	0.026
RMSE Z	0.024
GPS Method	Total Station

PHOTOS:









Point ID	FO060
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Thatcher Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4396411.677	499532.243	1611.967

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.65

Date (MM-DD-YYYY)	09-27-2018
RMSE Hz	0.021
RMSE Z	0.029
GPS Method	Total Station

PHOTOS:









Point ID	FO061
Project No.	R033371.00
Project Name	USGS 3DEP NoCal
State	California
County	Mendocino
Quad	Hales Grove

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4412545.926	435818.394	569.714

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	2.11 meters

Date (MM-DD-YYYY)	3/20/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO062
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Longvale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4375470.120	457806.867	692.485

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	10-01-2018
RMSE Hz	0.023
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:









Point ID	FO063
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

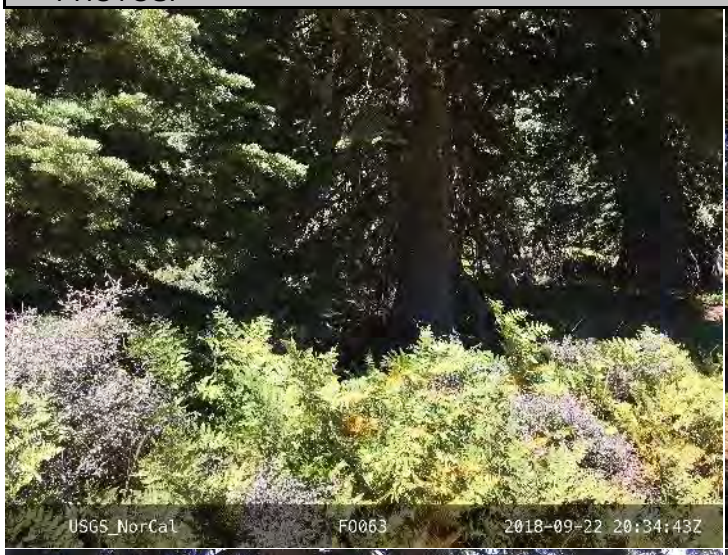
Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4396367.065	511165.477	1970.606

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.026
RMSE Z	0.027
GPS Method	Total Station

PHOTOS:









Point ID	FO064
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Alder Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4399975.422	529044.151	1292.776

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	09-21-2018
RMSE Hz	0.030
RMSE Z	0.033
GPS Method	Total Station

PHOTOS:









Point ID	FO065
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4397447.036	626824.895	620.640

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.60 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.027
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:









Point ID	FO066
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Soapstone Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4406665.361	644848.904	1557.823

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.021
RMSE Z	0.031
GPS Method	Total Station

PHOTOS:



Point ID	FO067
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	American House

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4398867.575	669759.315	1542.523

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-15-2018
RMSE Hz	0.028
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:









Point ID	FO068
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Humbug Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404696.963	676403.460	1726.442

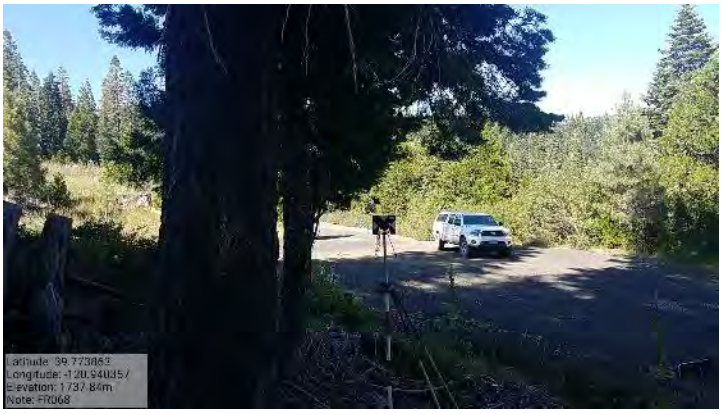
Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-14-2018
RMSE Hz	0.022
RMSE Z	0.038
GPS Method	Total Station

PHOTOS:









Point ID	FO069
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Plumas
Quad	Johnsonville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4404255.935	697204.076	1667.111

Operator	Gabe Rietmann
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-16-2018
RMSE Hz	0.033
RMSE Z	0.038
GPS Method	Total Station

PHOTOS:









Point ID	FO070
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Trinity
Quad	Swim Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4443453.170	488781.432	1688.745

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	10-02-2018
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:









Point ID	FO071
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Tehama
Quad	Raglin Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4434000.183	525176.539	1399.374

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	09-24-2018
RMSE Hz	0.028
RMSE Z	0.032
GPS Method	Total Station

PHOTOS:









Point ID	FO072
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Plaskett Meadows

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4389390.994	514836.492	1839.205

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	09-22-2018
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO073
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Glenn
Quad	Alder Springs

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4386899.003	525193.999	1306.715

Operator	Marc Nabelek
Receiver Model	Trimble M3, Total Station
Receiver S/N	C601469
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.030
RMSE Z	0.032
GPS Method	Total Station

PHOTOS:









Point ID	FO074
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Butte
Quad	Oroville Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4380516.354	634577.946	308.363

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	520348179
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-10-2018
RMSE Hz	0.024
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:



Point ID	FO075
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Clipper Mills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4387163.453	651657.927	1195.37

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-12-2018
RMSE Hz	0.022
RMSE Z	0.033
GPS Method	Total Station

PHOTOS:









Point ID	FO076
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Yuba
Quad	Strawberry Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4383216.166	661652.058	1081.833

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-12-2018
RMSE Hz	0.018
RMSE Z	0.024
GPS Method	Total Station

PHOTOS:









Point ID	FO077
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Mount Fillmore

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388912.440	683360.530	1826.133

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-21-2018
RMSE Hz	0.031
RMSE Z	0.024
GPS Method	Total Station

PHOTOS:









Point ID	FO078
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Haypress Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4385085.266	709824.279	2234.373

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65

Date (MM-DD-YYYY)	07-20-2018
RMSE Hz	0.029
RMSE Z	0.037
GPS Method	Total Station

PHOTOS:









Point ID	FO079
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Sattley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4388189.973	715489.690	2042.651

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-19-2018
RMSE Hz	0.024
RMSE Z	0.033
GPS Method	Total Station

PHOTOS:









Point ID	FO080
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Mendocino
Quad	Van Arsdale Reservoir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4359262.796	491545.261	462.163

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	4811147337
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	09-20-2018
RMSE Hz	0.013
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:



Point ID	FO081
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4357435.279	532619.570	451.037

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.664 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO082
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Nevada City

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4358752.480	661838.956	577.270

Operator	Scott Slowinski
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.035
RMSE Z	0.035
GPS Method	Total Station

PHOTOS:



Point ID	FO083
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Washington

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
US Survey Feet

Northing	Easting	Elevation
4359405.864	690292.509	840.522

Operator	Zeke Ingram
Receiver Model	Trimble M3
Receiver S/N	
Antenna Height	2.115 meters

Date (MM-DD-YYYY)	3/4/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO084
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Graniteville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4353341.720	700181.863	1388.298

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-22-2018
RMSE Hz	0.029
RMSE Z	0.033
GPS Method	Total Station

PHOTOS:









Point ID	FO085
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Colusa
Quad	Gilmore Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4352824.492	540301.696	379.499

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	2.11 meters

Date (MM-DD-YYYY)	3/22/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO086
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Nevada
Quad	Dutch Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4346139.650	685586.919	1251.451

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.650 Meters

Date (MM-DD-YYYY)	07-25-2018
RMSE Hz	0.025
RMSE Z	0.025
GPS Method	Total Station

PHOTOS:









Point ID	FO087
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sierra
Quad	Graniteville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4334772.743	703184.555	1512.713

Operator	Lucas Rietmann
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-23-2018
RMSE Hz	0.038
RMSE Z	0.047
GPS Method	Total Station

PHOTOS:









Point ID	FO088
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Placer
Quad	Gold Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4313842.924	659085.952	297.990

Operator	Scott Slowinski
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-26-2018
RMSE Hz	0.032
RMSE Z	0.037
GPS Method	Total Station

PHOTOS:









Point ID	FO089
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Tunnel Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4312999.492	697459.826	1049.187

Operator	Scott Slowinski
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.031
RMSE Z	0.029
GPS Method	Total Station

PHOTOS:



Point ID	FO090
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Devil Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

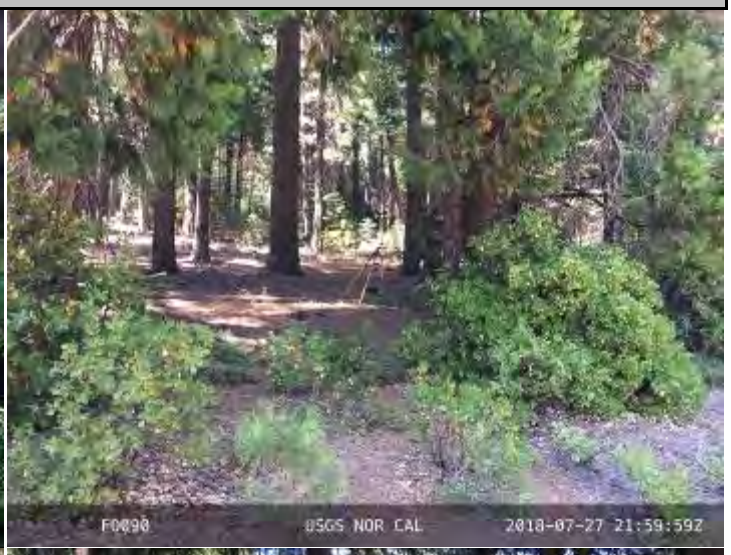
Northing	Easting	Elevation
4309122.488	707926.385	1310.400

Operator	Scott Slowinski
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.029
RMSE Z	0.040
GPS Method	Total Station

PHOTOS:









Point ID	FO091
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	El Dorado
Quad	Georgetown

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4309219.196	688077.793	832.157

Operator	Scott Slowinski
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.65 Meters

Date (MM-DD-YYYY)	07-27-2018
RMSE Hz	0.036
RMSE Z	0.045
GPS Method	Total Station

PHOTOS:



Point ID	FO092
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Lake
Quad	Detert Reservoir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4286111.549	539769.769	334.310

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-19-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO093
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sonoma
Quad	Calistoga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4267381.306	533848.109	333.161

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-30MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-30-2019
RMSE Hz	
RMSE Z	
GPS Method	Total Station

PHOTOS:









Point ID	FO094
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Lake Berryessa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4265513.439	567554.738	174.757

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-31-2019
RMSE Hz	0.013
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:









Point ID	FO095
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Napa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4244645.390	565034.335	40.174

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-31-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO096
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Napa
Quad	Capell Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4255549.255	574031.264	193.735

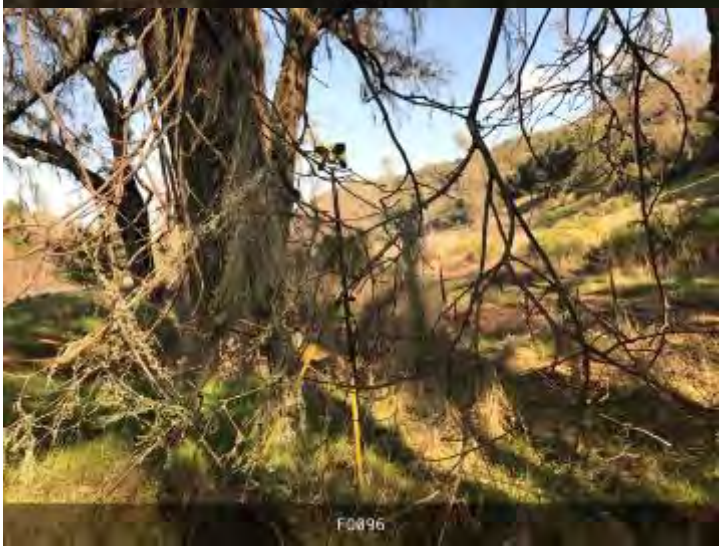
Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-31-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO097
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4235050.764	508671.524	47.292

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.615 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO098
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

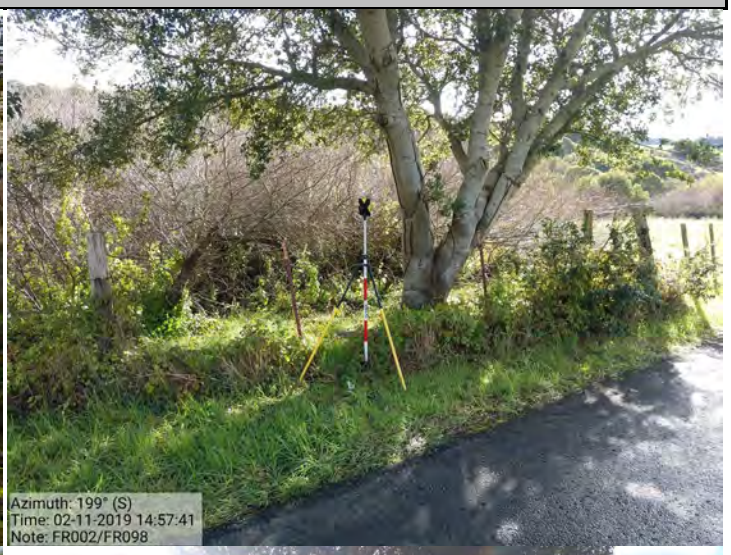
Northing	Easting	Elevation
4224612.918	517880.297	69.167

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO099
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Petaluma

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4226209.451	529068.274	41.757

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL-322/-30mm prism
Receiver S/N	5203481794
Antenna Height	1.615 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO100
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Sonoma
Quad	Cordelia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

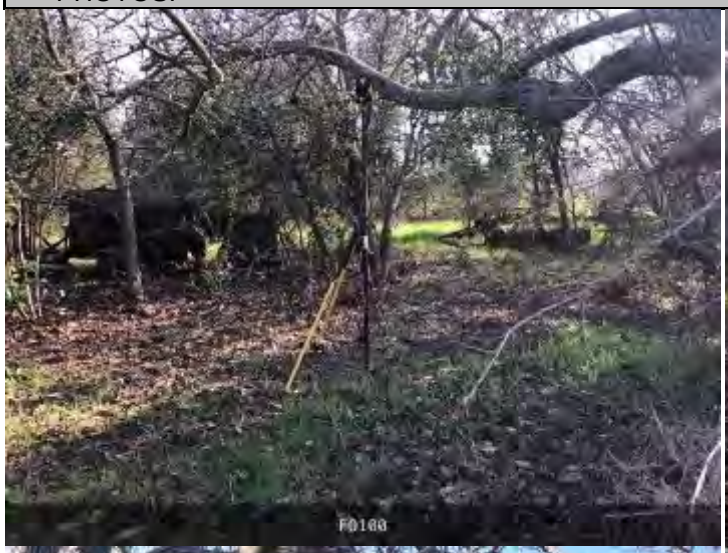
°

Northing	Easting	Elevation
4233192.444	576849.686	18.451

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-31-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO101
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4210238.336	534770.263	74.394

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO102
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Double Point

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205633.634	521476.281	59.843

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO103
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4207412.943	529307.770	94.228

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO104
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Marin
Quad	Petaluma Point

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4206538.466	545675.697	5.948

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO105
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	USGS NoCal
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4195780.956	526349.348	58.738

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO106
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Briones Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4195006.823	569410.451	132.770

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-28-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO107
Project No.	33371
Project Name	USGS NoCal
State	California
County	Contra Costa
Quad	Walnut Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4197671.392	581341.323	34.784

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-24-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO108
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Clayton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4198456.119	595106.335	190.423

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-24-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO109
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	San Francisco
Quad	Point Bonita

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4181625.423	543023.531	49.812

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	5203481794
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-18-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO110
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Oakland East

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4191227.560	572365.277	186.869

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-25-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FO111
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Las Trampas Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

°

Northing	Easting	Elevation
4188426.239	586377.136	94.281

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-25-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FO112
Project No.	R033371.00
Project Name	USGS NOR-CAL 3DEP
State	California
County	Contra Costa
Quad	Diablo

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4189965.751	594513.349	542.699

Operator	Zeke Ingram
Receiver Model	Nikon NPL-322/-33MM Prism
Receiver S/N	5203481794
Antenna Height	2.106 Meters

Date (MM-DD-YYYY)	01-25-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FR701
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Rainbow Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4581181.454	593160.371	1392.589

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.011
RMSE Z	0.024
GPS Method	Total Station

PHOTOS:









Point ID	FR702
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4580929.365	602701.079	1394.363

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	Total Station

PHOTOS:



Point ID	FR703
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576586.342	598190.815	1487.464

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.023
RMSE Z	0.008
GPS Method	Total Station

PHOTOS:









Point ID	FR704
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4579645.258	601569.474	1412.434

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	Total Station

PHOTOS:



Point ID	FR705
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

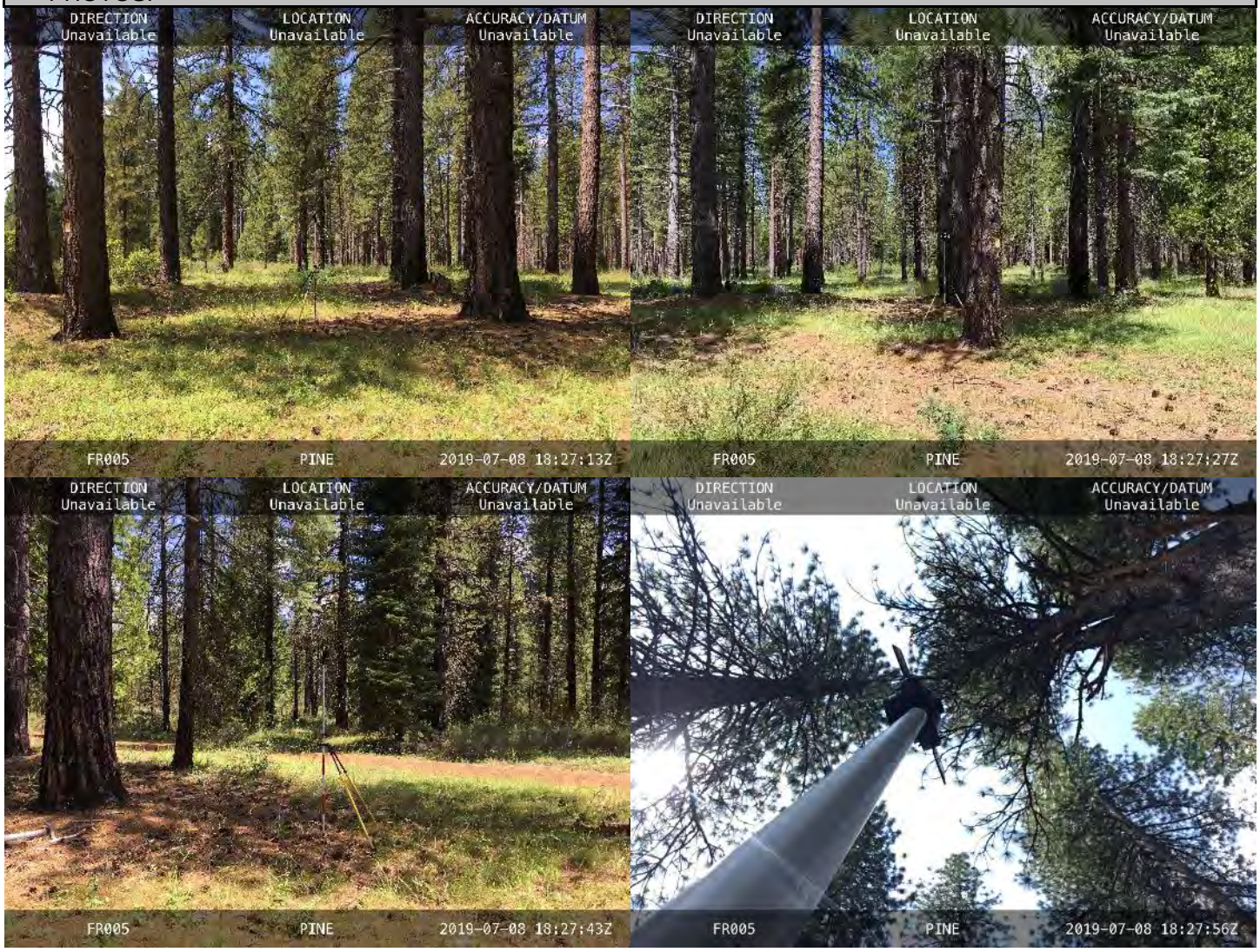
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4570806.705	599488.042	1230.025

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	Total Station

PHOTOS:



Point ID	FR706
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568176.581	597112.420	1212.718

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	Total Station

PHOTOS:



Point ID	FR707
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Dead Horse Summit

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4566382.251	600147.159	1218.125

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	Total Station

PHOTOS:



Point ID	FR708
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Bartle

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4572167.016	604252.967	1411.436

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5”P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/06/2019
RMSE Hz	0.019
RMSE Z	0.015
GPS Method	Total Station

PHOTOS:



Point ID	FR709
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

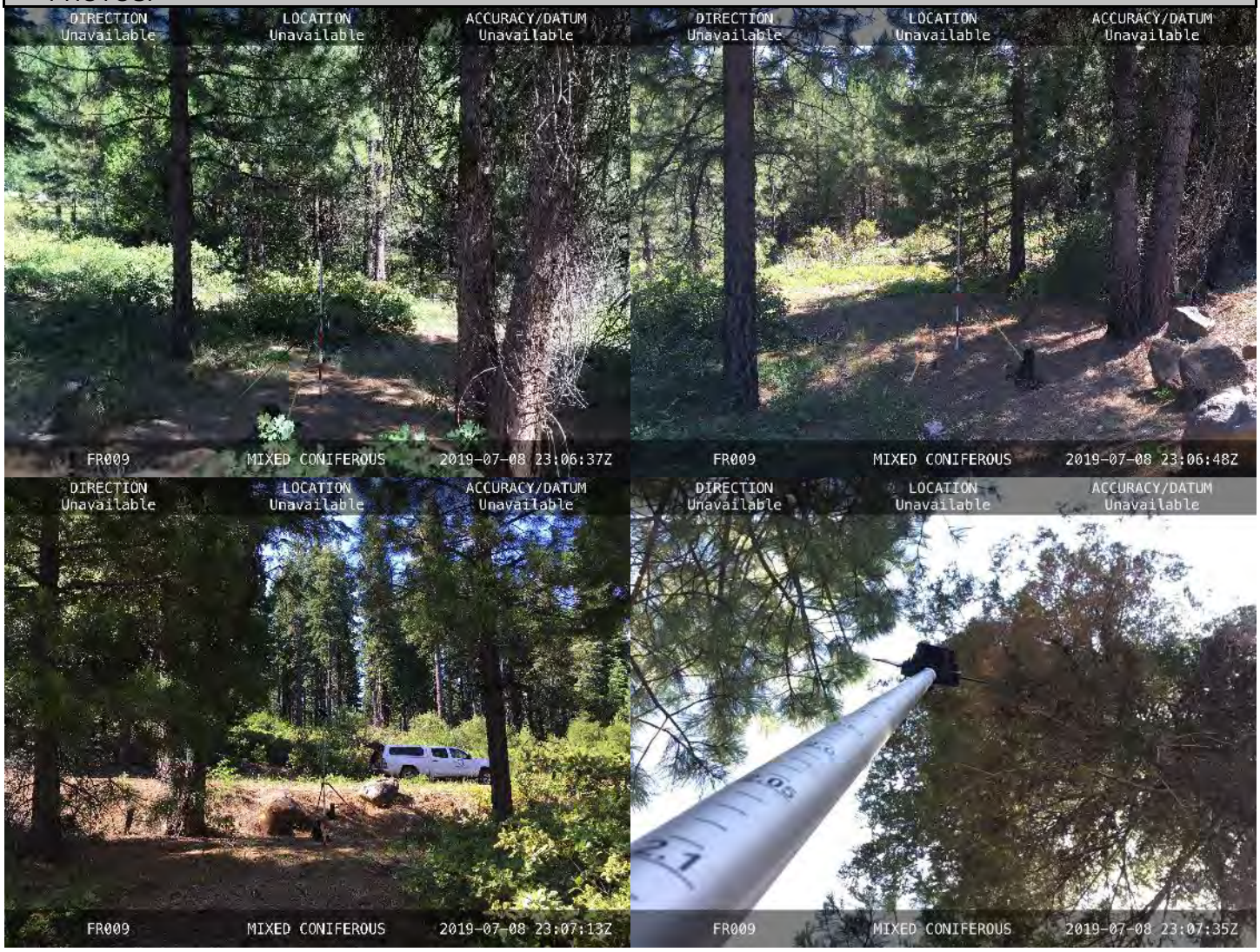
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4572083.079	608332.100	1409.771

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.200m

Date (MM-DD-YYYY)	07/08/2019
RMSE Hz	0.020
RMSE Z	0.020
GPS Method	Total Station

PHOTOS:



Point ID	FR710
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4571266.792	622552.091	1164.115

Operator	Aaron Olson
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	07/12/2019
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR711
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568797.428	624264.459	1141.156

Operator	Aaron Olson
Receiver Model	Nikon NPL322+5”P
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR712
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4561182.844	619763.771	1116.638

Operator	Aaron Olson
Receiver Model	Nikon NPL322+5”P
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	07/13/2019
RMSE Hz	0.009
RMSE Z	0.007
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR713
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4559059.287	625083.483	1060.098

Operator	Aaron Olson
Receiver Model	Nikon NPL322+5”P
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.011
RMSE Z	0.027
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR714
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4564578.074	625488.742	1115.786

Operator	Aaron Olson
Receiver Model	Nikon NPL322+5”P
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	07/11/2019
RMSE Hz	0.018
RMSE Z	0.012
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR715
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4562968.324	609063.481	1279.215

Operator	Wade Johnson
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-06-2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR716
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Indian Spring Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

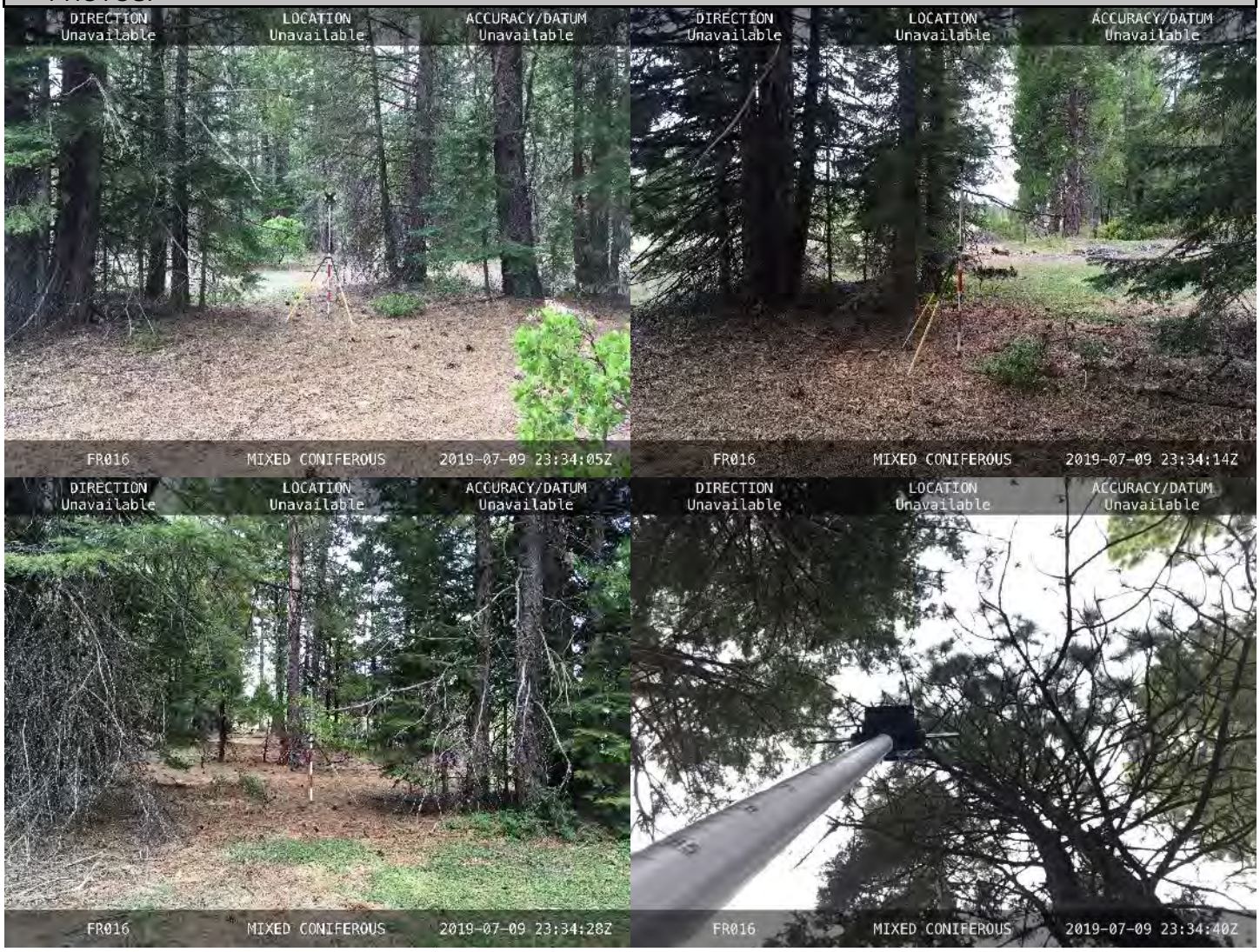
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4569404.021	616789.827	1164.971

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.008
RMSE Z	0.021
GPS Method	Total Station

PHOTOS:



Point ID	FR717
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Hambone

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576575.092	610030.574	1321.262

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/09/2019
RMSE Hz	0.012
RMSE Z	0.023
GPS Method	Total Station

PHOTOS:



Point ID	FR718
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	Kinyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4577805.343	594056.158	1694.462

Operator	Casey Broderick
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	07/07/2019
RMSE Hz	0.024
RMSE Z	0.014
GPS Method	Total Station

PHOTOS:









Point ID	FR719
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Shasta
Quad	Dana

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4550192.973	624763.320	1012.277

Operator	Wade Johnson
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-06-2019
RMSE Hz	0.008
RMSE Z	0.017
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR720
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Modoc
Quad	Timbered Crater

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4567331.293	633152.580	1183.731

Operator	Wade Johnson
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	1.995 Meters

Date (MM-DD-YYYY)	06-04-2019
RMSE Hz	0.013
RMSE Z	0.032
GPS Method	Total Station

PHOTOS:



Point ID	FR721
Project No.	R033371.C2
Project Name	USGS NoCal MOD2 Campfire GMEG
State	California
County	Siskiyou
Quad	East of Pondosa

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4562963.786	621000.417	1117.667

Operator	Aaron Olson
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	07/13/2019
RMSE Hz	0.012
RMSE Z	0.007
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FO051
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
621160.512	4408156.446	685.824

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-07-2018
RMSE Hz	0.030
RMSE Z	0.030
GPS Method	Total Station

PHOTOS:



Point ID	FO065
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
626824.895	4397447.036	620.64

Operator	Camden Beeghly
Receiver Model	Nikon NPL-322/-30 mm prism
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	07-11-2018
RMSE Hz	0.027
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:



Point ID	FR803
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
622369.434	4411350.764	820.674

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.710 meters

Date (MM-DD-YYYY)	3/30/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FR804
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

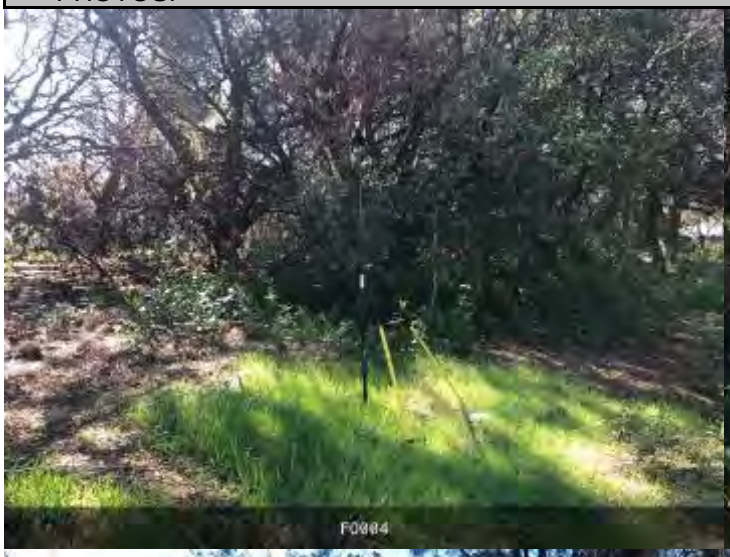
Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
625431.069	4389517.993	403.283

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.661 meters

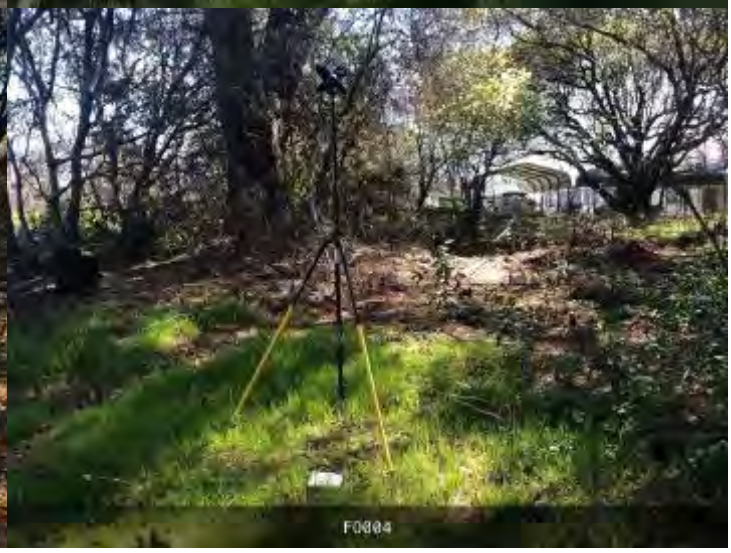
Date (MM-DD-YYYY)	3/31/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR805
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
626245.033	4398883.03	538.881

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.661 meters

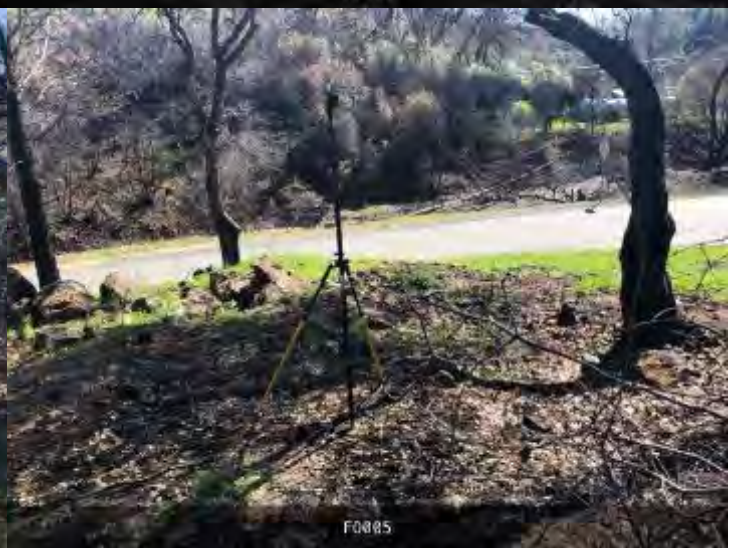
Date (MM-DD-YYYY)	3/31/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR806
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

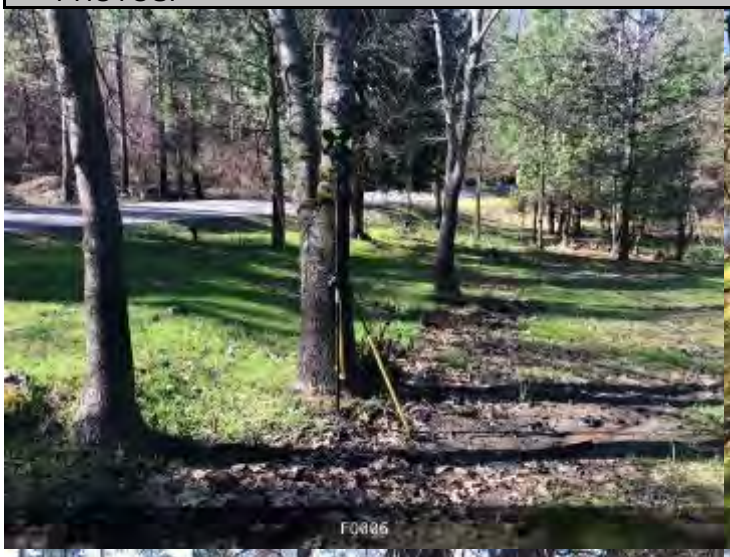
Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
626758.837	4402628.916	617.186

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.634 meters

Date (MM-DD-YYYY)	3/31/2019
RMSE Hz	0.029
RMSE Z	0.027
GPS Method	Total Station

PHOTOS:









Point ID	FR807
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Cherokee

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

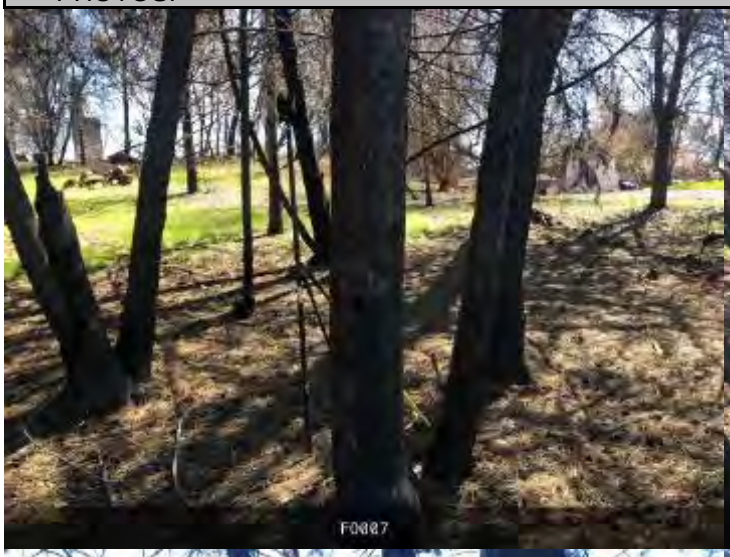
Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

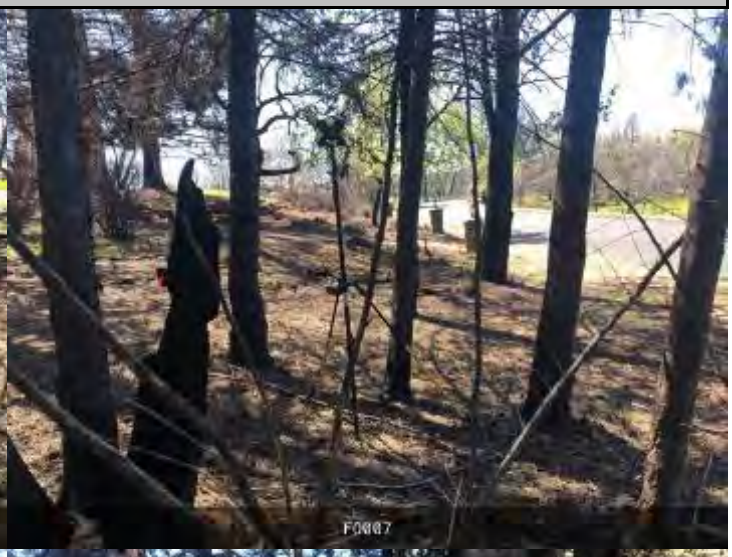
Northing	Easting	Elevation
622334.611	4397970.062	465.428

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.646 meters

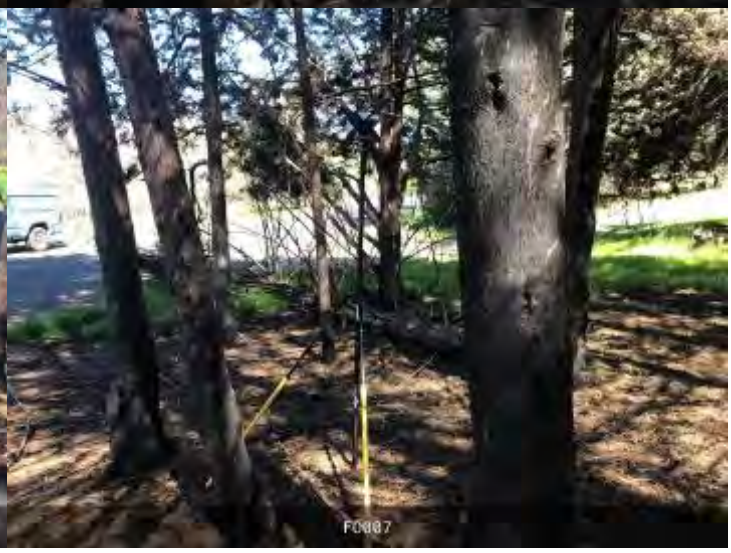
Date (MM-DD-YYYY)	3/31/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR808
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise West

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
615347.136	4405477.857	227.817

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.579 meters

Date (MM-DD-YYYY)	3/30/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FR809
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
622281.878	4401835.894	584.34

Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.597 meters

Date (MM-DD-YYYY)	3/30/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:



Point ID	FR810
Project No.	R033371.C2
Project Name	USGS NoCal-CampFire
State	California
County	Butte
Quad	Paradise East

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

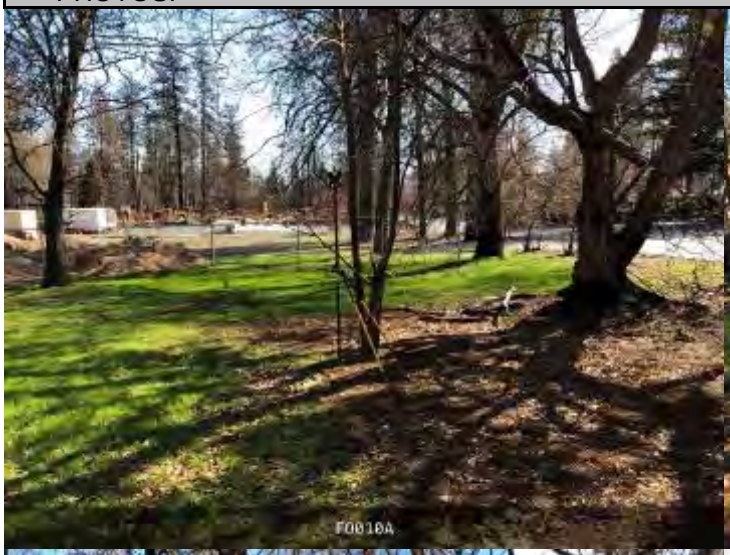
Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

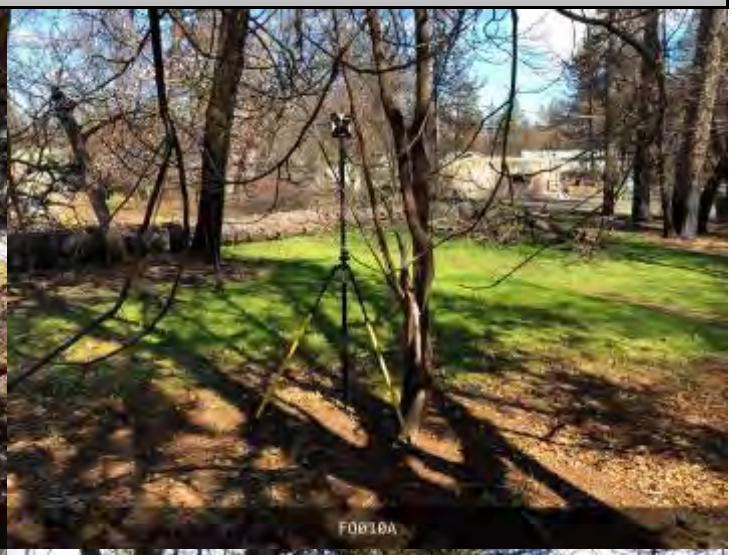
Northing	Easting	Elevation
618409.967	4402569.101	564.591

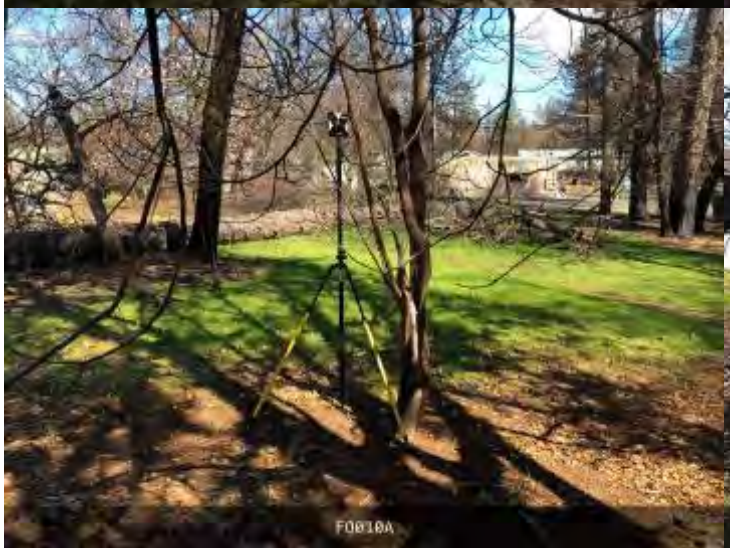
Operator	Zeke Ingram
Receiver Model	Nikon
Receiver S/N	
Antenna Height	1.640 meters

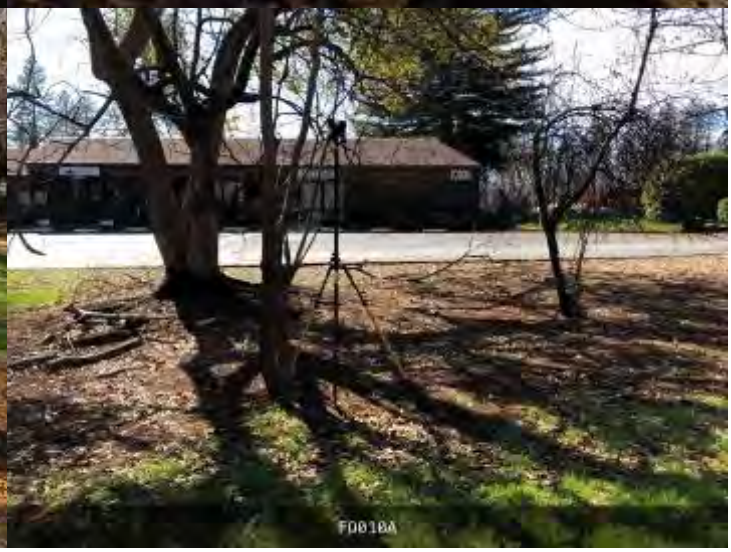
Date (MM-DD-YYYY)	3/30/2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR901
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4235050.764	508671.524	47.292

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR902
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4224612.918	517880.297	69.167

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-11-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR903
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Petaluma

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4226209.451	529068.274	41.757

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR904
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Novato

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4210238.336	534770.263	74.394

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-12-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR905
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Double Point

°

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4205633.634	521476.281	59.843

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR906
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	San Geronimo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4207412.943	529307.770	94.228

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR907
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Petaluma Point

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4206538.466	545675.697	5.948

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-14-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR908
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Bolinas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4195780.956	526349.348	58.738

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-16-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR909
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4233683.262	502853.056	6.642

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-08-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR910
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Valley Ford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

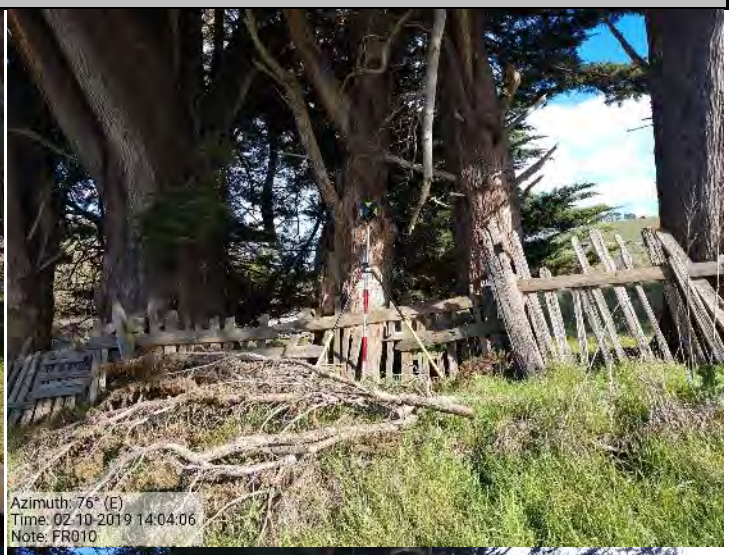
Northing	Easting	Elevation
4239981.934	506916.204	6.184

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:









Point ID	FR911
Project No.	R31654
Project Name	TNC Marin County
State	California
County	Marin
Quad	Point Reyes NE

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4232551.691	516583.397	54.691

Operator	Emily Gottesfeld
Receiver Model	Nikon NPL – 322+
Receiver S/N	
Antenna Height	1.600 Meters

Date (MM-DD-YYYY)	02-10-2019
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:







