



Delivery Lot Summary Report: Massachusetts UTM18 Interim Delivery November 3, 2015

USGS Contract: G10PC00026

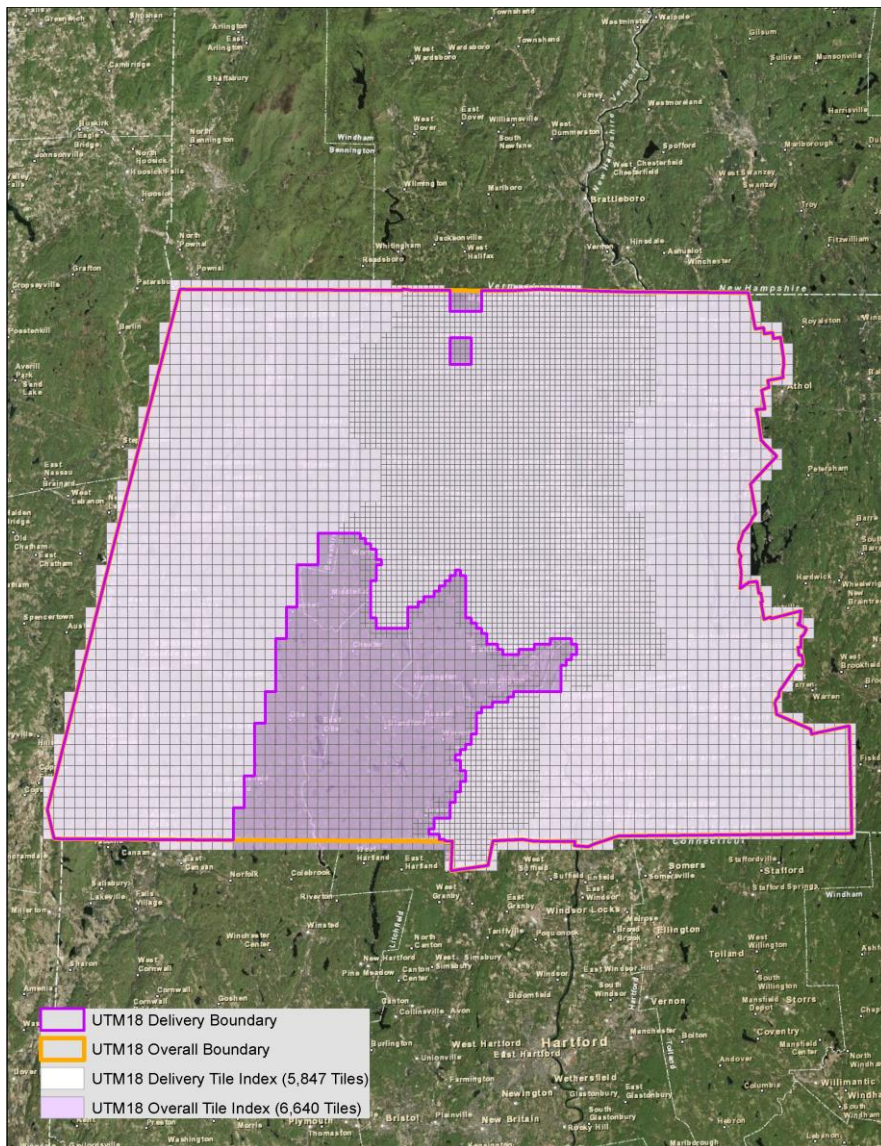
USGS Task Order: G15PD00281

Task Order Name: Maine & Massachusetts QL1 & QL2 Lidar BAA

Contractor: GMR Aerial Surveys, dba Photo Science, A Quantum Spatial Company

The following is a summary description of the deliverables and other pertinent information that comprise the shipment of the interim UTM 18 Massachusetts AOI Delivery Lot 5 to USGS on November 3, 2015.

Massachusetts UTM18 LiDAR Delivery Lot 5 Map:



**Task Order Spatial Reference System:**

- Horizontal: UTM 18N, NAD83 (2011), Meters
- Vertical: NAVD88, GEOID12a, Meters

Deliverables Summary:

1. C.1.d.(i) Raw Point Cloud Data: Included
 - LAS v1.4, Point Record Format 6 including File Source ID
 - Classification Schema:
 - (00) Code 0 – Created, never classified
 - Total Number of Files: 32
 - Total File Size: 96.5 GB
2. C.1.d.(ii) Classified Point Cloud: Included
 - LAS v1.4, Point Record Format 6 including File Source ID w/assigned value of 0
 - Classification Schema:
 - (01) Code 1 – Processed, but unclassified
 - (02) Code 2 – Bare-earth ground
 - (03) Code 7 – Noise
 - (04) Code 8 – Model Key
 - (05) Code 9 – Water
 - (06) Code 10 – Ignored Ground (Breakline Proximity)
 - (07) Code 17 – Bridge Decks
 - (08) Code 18 – High Noise
 - Total Number of Tiles: 5,847
 - Tile Dimensions: 1,500m x 1,500m and 750m x 750m
 - Total Number of 1500m x 1500m Tiles: 1,967
 - Total Number of 750m x 750m Tiles: 3,880
 - Total Number of Tiles Containing Only QL1 Data: 3,481
 - i. All tiles containing only QL1 data are 750m in size
 - Total Number of Tiles Containing Only QL2 Data: 2,101
 - i. 134 tiles are 750m in size
 - ii. 1,967 tiles are 1500m in size
 - Total Number of Tiles Containing Both QL1 & QL2 Data: 265
 - i. All tiles containing both QL1 and QL2 data are 750m in size
 - Total File Size: 2.76 TB
 - Delivery Lot 5 Tile Shape Files (Lot 5 Individual Tiles)



3. C.1.d.(iii) Bare Earth Surface (Raster DEM): Included
 - Format: ERDAS .IMG
 - Resolution: 1 meter grid cell size
 - Hydro Conditioning: Hydro Flattened
 - Total Number of Tiles: 5,847
 - Tile Dimensions: 1,500m x 1,500m & 750m x 750m (same used for Classified Point Cloud)
 - Total Number of 1500m x 1500m Tiles: 1,967
 - Total Number of 750m x 750m Tiles: 3,880
 - Total File Size: 25.8 GB
4. C.1.d.(iv) Breaklines: Included
 - Format: ESRI Geodatabase
 - Coverage: Lot 4 Continuous, Non-Tiled
 - Total File Size: 1.38 MB
5. C.1.d.(v) Control: Included
 - Format: Shape files
 - Total File Size: 52 KB
6. C.1.d.(vi) Intensity Image
 - Format: GeoTIFF, with world files
 - Resolution: 1 meter pixel size
 - Scale: 8 bit, 256 color gray scale
 - Total Number of Tiles: 5,847
 - Tile Dimensions: 1,500m x 1,500m & 750m x 750m (same used for Classified Point Cloud)
 - Total Number of 1500m x 1500m Tiles: 1,967
 - Total Number of 750m x 750m Tiles: 3,880
 - Total File Size: 9.0 GB
7. C.1.d.(vii) Metadata: Included
 - Format: FGDC compliant, XML
 - File Types: Project, Deliverable product group (Classified .las, DEM, Breaklines, Intensity Images, Flightlines and Supporting Spatial Vector Data)
8. C.1.d.(viii) Project Report:
 - Delivery Lot Summary Report: Lot 5 Included
 - Overall Project Report: *To be delivered upon completion of Lot 5 (pending Fall/Winter acquisition)*
9. Lot 4 QA & Accuracy Reporting
 - NVA/VVA/Calibration Control Testing Results (Excel File): Included
 - LAS Analysis (Excel File): Included
 - LAS Stats (Excel File): Included
 - DEM Stats (Excel File): Included



Delivery Lot Notes/Comments:

Delivery Lot 5 consists of all data that has been flown so far in the Massachusetts UTM18 AOI with the exception of a small portion of tiles that were held back in order to tie in the data that will be acquired this Fall/Winter.