

OSMRE LiDAR/Elevation Project Summary

Project Sponsor: U.S. Dept. of Interior, Office of Surface Mining

Project Area: 300 sq. miles, portions of Campbell, Anderson, and Morgan counties

Acquisition Dates: Spring 2011

Technical Summary:

Nominal Point Spacing – 1.0 meter

Vertical Accuracy – 12.5 cm

Horizontal Accuracy – 24.5 cm

Vertical Datum: NAVD88, Geoid03, meters

Horizontal Datum: NAD83

Coordinate System: State Plane, zone 4100, feet

Tiling Scheme: 1000x1000 (National Grid) for point cloud

Products:

- One set of hydrologically flattened LiDAR data bare earth 1,000 x 1,000 meter tiles in ArcGRID format.
- LAS v1.2 classified point cloud and bare earth point files in tile format.
- LAS v1.2 raw unclassified flightline strips no greater than 2GB.
- DEM, 1 meter
- Intensity Images as tiles in ArcGRID FLOAT format.
- Breaklines compiled as part of the hydrologic flattening process were provided as ESRI PolylineZ or PolygonZ shape files.
- FGDC compliant metadata by file in XML format.

OSMRE Tennessee AOI LiDAR (1m NPS) & CIR Ortho (1 ft GSD)

Approximately 300 sq mi

