

# Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar Flightline Shapefiles

Thumbnail Not Available

## Tags

Acquired flight lines

## Summary

The purpose of this project is for lidar mapping services in support of the USGS for task name Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar Task Order

## Description

Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar 0.7m NPS Lidar Data Acquisition and Processing Production Task USGS Contract No. G10PC00057

Task Order No. G15PD00091

Woolpert Order No. 75157

CONTRACTOR: Woolpert, Inc.

This task is for a high resolution data set of lidar covering approximately 5981 square miles. The lidar data was acquired and processed under the requirements identified in this task order. The data delivered in this task order is compliant with US. Geological Survey National Geospatial Program Lidar Base Specification Version 1.2. Lidar data is a remotely sensed high resolution elevation data collected by an airborne platform. The lidar sensor uses a combination of laser range finding, GPS positioning, and inertial measurement technologies. The lidar systems collect data point clouds that are used to produce highly detailed Digital Elevation Models (DEMs) of the earth's terrain, man-made structures, and vegetation. The task required the LiDAR data to be collected at a nominal pulse spacing (NPS) of 0.7 meters. The final products include classified LAS, four (4) feet pixel raster DEMs of the bare-earth surface in ERDAS IMG Format, and 8-bit intensity images. LAS, DEM, and Intensity data was delivered in 1250 ft x 1250 ft tiles. Each LAS file contains lidar point information, which has been calibrated, controlled, and classified.

Additional deliverables include hydrologic breakline data, control data, flight line vectors and tile index provided as ESRI shapefile, lidar processing and survey reports in PDF format, FGDC metadata files for each data deliverable in .xml format, and LAS swath data. Ground conditions: Water at normal levels; no unusual inundation; no snow; leaf off.

## Credits

There are no credits for this item.

## Use limitations

None. However, users should be aware that temporal changes may have occurred since this dataset was collected and that some parts of these data may no longer represent actual surface conditions. Users should not use these data for critical applications without a full awareness of its limitations. Acknowledgement of the U.S. Geological Survey would be appreciated for products derived from these data.

## Extent

There is no extent for this item.

## Scale Range

There is no scale range for this item.

[ArcGIS Metadata](#) ►

[Citation](#) ►

**TITLE** Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar Flightline Shapefiles

[Hide Citation ▲](#)

## Resource Details ►

CREDITS

[Hide Resource Details ▲](#)

## Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

None. However, users should be aware that temporal changes may have occurred since this dataset was collected and that some parts of these data may no longer represent actual surface conditions. Users should not use these data for critical applications without a full awareness of its limitations. Acknowledgement of the U.S. Geological Survey would be appreciated for products derived from these data.

[Hide Resource Constraints ▲](#)

## FGDC Metadata (read-only) ▼

CITATION

CITATION INFORMATION

ORIGINATOR Woolpert

PUBLICATION DATE 2016-01-08

TITLE

Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar Flightline Shapefiles

GEOSPATIAL DATA PRESENTATION FORM Vector digital data

DESCRIPTION

ABSTRACT

Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar 0.7m NPS Lidar Data Acquisition and Processing Production Task USGS Contract No. G10PC00057

Task Order No. G15PD00091

Woolpert Order No. 75157

CONTRACTOR: Woolpert, Inc.

This task is for a high resolution data set of lidar covering approximately 5981 square miles. The lidar data was acquired and processed under the requirements identified in this task order. The data delivered in this task order is compliant with US. Geological Survey National Geospatial Program Lidar Base Specification Version 1.2. Lidar data is a remotely sensed high resolution elevation data collected by an airborne platform. The lidar sensor uses a combination of laser range finding, GPS positioning, and inertial measurement technologies. The lidar systems collect data point clouds that are used to produce highly detailed Digital Elevation Models (DEMs) of the earth's terrain, man-made structures, and vegetation. The task required the LiDAR data to be collected at a nominal pulse spacing (NPS) of 0.7 meters. The final products include classified LAS, four (4) feet pixel raster DEMs of the bare-earth surface in ERDAS IMG Format, and 8-bit intensity images. LAS, DEM, and Intensity data was delivered in 1250 ft x 1250 ft tiles. Each LAS file contains lidar point information, which has been calibrated, controlled, and classified. Additional deliverables include hydrologic breakline data, control data, flight line vectors and tile index provided as ESRI shapefile, lidar processing and survey reports in PDF format, FGDC metadata files for each data deliverable in .xml format, and LAS swath data. Ground conditions: Water at normal levels; no unusual inundation; no snow; leaf off.

PURPOSE

The purpose of this project is for lidar mapping services in support of the USGS for task name Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar Task Order

TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

MULTIPLE DATES/TIMES

SINGLE DATE/TIME

CALENDAR DATE 2015-01-28

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-01-29

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-01-30

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-01-31

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-02-27

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-02-28

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-05

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-06

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-07

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-15

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-16

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-17

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-18

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-22

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-23

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-24

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-26

TIME OF DAY unknown

SINGLE DATE/TIME

CALENDAR DATE 2015-03-27  
TIME OF DAY unknown  
SINGLE DATE/TIME

CALENDAR DATE 2015-03-28  
TIME OF DAY unknown  
SINGLE DATE/TIME

CALENDAR DATE 2015-04-01  
TIME OF DAY unknown  
CURRENTNESS REFERENCE  
ground condition  
STATUS  
PROGRESS Complete  
MAINTENANCE AND UPDATE FREQUENCY As needed

SPATIAL DOMAIN  
BOUNDING COORDINATES  
WEST BOUNDING COORDINATE -90.866260  
EAST BOUNDING COORDINATE -88.286636  
NORTH BOUNDING COORDINATE 32.084610  
SOUTH BOUNDING COORDINATE 30.113105

KEYWORDS  
THEME  
THEME KEYWORD THESAURUS None  
THEME KEYWORD Acquired flight lines

PLACE  
PLACE KEYWORD THESAURUS None  
PLACE KEYWORD United States  
PLACE KEYWORD Mississippi

ACCESS CONSTRAINTS  
No restrictions apply to this data.

USE CONSTRAINTS  
None. However, users should be aware that temporal changes may have occurred since this dataset was collected and that some parts of these data may no longer represent actual surface conditions. Users should not use these data for critical applications without a full awareness of its limitations. Acknowledgement of the U.S. Geological Survey would be appreciated for products derived from these data.

POINT OF CONTACT  
CONTACT INFORMATION  
CONTACT ORGANIZATION PRIMARY  
CONTACT ORGANIZATION Woolpert  
CONTACT ADDRESS  
ADDRESS TYPE mailing and physical address  
ADDRESS 4454 Idea Center Blvd  
CITY Dayton  
STATE OR PROVINCE OH  
POSTAL CODE 45430  
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE (937) 461-5660  
CONTACT FACSIMILE TELEPHONE (937) 461-0743  
HOURS OF SERVICE 8:00 a.m. to 5:00 p.m. Eastern Standard Time

NATIVE DATA SET ENVIRONMENT

Microsoft Windows 7 Version 6.1 (Build 7600); ArcMap 10.2; ArcCatalog 10.2;  
TerraScan ver. 15.01; TerraModeler ver. 15.01; Geocue 2014.1.21; LP360 2014.1.  
Approximate size of entire delivery dataset = 3.0TB

*Hide Identification ▲*

LOGICAL CONSISTENCY REPORT

All formatted data cover the entire area specified for this project and are validated using a combination of commercial lidar processing software, GIS software, and proprietary programs to ensure proper formatting and loading prior to delivery.

COMPLETENESS REPORT

The lidar data is visually inspected for completeness to ensure that there are no void areas or missing data.

LINEAGE

SOURCE INFORMATION

SOURCE CITATION

CITATION INFORMATION

ORIGINATOR Woolpert

PUBLICATION DATE 2016-01-08

TITLE

Lidar acquisition

PUBLICATION INFORMATION

PUBLICATION PLACE Dayton, OH

PUBLISHER Woolpert Geospatial Services

TYPE OF SOURCE MEDIA Lidar dataset

SOURCE TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

SINGLE DATE/TIME

CALENDAR DATE 2015-01-28

SOURCE CURRENTNESS REFERENCE

ground condition

SOURCE CITATION ABBREVIATION

Mississippi Coastal QL2 Lidar with 3DEP Extension

SOURCE CONTRIBUTION

This data set is the project specified acquired point cloud data.

PROCESS STEP

PROCESS DESCRIPTION

Flightline Vectors were generated by importing raw LAS Swath data into Geocue which generates bounding polygons of individual files. These polygons were then exported into shapefile format and attributed with flight line numbers.

SOURCE USED CITATION ABBREVIATION

Mississippi Coastal QL2 Lidar with 3DEP Extension Lidar Acquisition

PROCESS DATE 2015-01-28

PROCESS TIME 12:00

PROCESS CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Woolpert, Inc.

CONTACT POSITION Geospatial Services

CONTACT ADDRESS

ADDRESS TYPE mailing and physical address

ADDRESS 4454 idea Center Blvd.

CITY Dayton

STATE OR PROVINCE OH

POSTAL CODE 45430

COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE (937) 461-5660  
CONTACT FACSIMILE TELEPHONE (937) 461-0743  
HOURS OF SERVICE 8:00 a.m. to 5:00 p.m. Eastern Time

*Hide Data Quality* ▲

HORIZONTAL COORDINATE SYSTEM DEFINITION  
PLANAR  
MAP PROJECTION  
MAP PROJECTION NAME NAD 1983 2011 StatePlane Mississippi East FIPS 2301 Ft US  
TRANSVERSE MERCATOR  
SCALE FACTOR AT CENTRAL MERIDIAN 0.99995  
LONGITUDE OF CENTRAL MERIDIAN -88.83333333333333  
LATITUDE OF PROJECTION ORIGIN 29.5  
FALSE EASTING 984250.0  
FALSE NORTHING 0.0

PLANAR COORDINATE INFORMATION  
PLANAR COORDINATE ENCODING METHOD coordinate pair  
COORDINATE REPRESENTATION  
ABSCISSA RESOLUTION 0.01  
ORDINATE RESOLUTION 0.01  
PLANAR DISTANCE UNITS foot\_us

GEODETTIC MODEL  
HORIZONTAL DATUM NAME D NAD 1983 2011  
ELLIPSOID NAME GRS 1980  
SEMI-MAJOR AXIS 6378137.0  
DENOMINATOR OF FLATTENING RATIO 298.257222101

VERTICAL COORDINATE SYSTEM DEFINITION  
ALTITUDE SYSTEM DEFINITION  
ALTITUDE DATUM NAME North American Vertical Datum of 1988(GEOID12A)  
ALTITUDE RESOLUTION 0.000100  
ALTITUDE DISTANCE UNITS meters  
ALTITUDE ENCODING METHOD Explicit elevation coordinate included with horizontal coordinates

*Hide Spatial Reference* ▲

DISTRIBUTOR  
CONTACT INFORMATION  
CONTACT ORGANIZATION PRIMARY  
CONTACT ORGANIZATION USGS/NGTOC  
CONTACT ADDRESS  
ADDRESS TYPE mailing and physical address  
ADDRESS 1400 Independence Rd.  
CITY Rolla  
STATE OR PROVINCE MO  
POSTAL CODE 65401  
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE (573) 308-3587  
CONTACT FACSIMILE TELEPHONE Unknown  
HOURS OF SERVICE Unknown

RESOURCE DESCRIPTION Downloadable Data  
DISTRIBUTION LIABILITY

Woolpert prepared the original data as set forth in the Scope of Services, in accordance with reasonable care and due diligence as set forth in this Agreement, however, due to the easily alterable nature of electronic media, files, documents, and other deliverables, Woolpert, Inc. makes no warranties, either expressed or implied, with respect to the accuracy, completeness, merchantability, or fitness for any particular purpose, including, but not limited to, use of any/all data as described within this metadata file, by any user of this data. Any use will be at the end-user's sole risk.

AVAILABLE TIME PERIOD  
TIME PERIOD INFORMATION  
SINGLE DATE/TIME  
CALENDAR DATE unknown  
TIME OF DAY unknown

[Hide Distribution Information ▲](#)

METADATA DATE 2016-01-08  
METADATA CONTACT  
CONTACT INFORMATION  
CONTACT ORGANIZATION PRIMARY  
CONTACT ORGANIZATION Woolpert  
CONTACT ADDRESS  
ADDRESS TYPE mailing and physical address  
ADDRESS 4454 Idea Center Blvd.  
CITY Dayton  
STATE OR PROVINCE OH  
POSTAL CODE 45430  
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE (937) 461-5660  
CONTACT FACSIMILE TELEPHONE (937) 461-0743  
HOURS OF SERVICE 8:00 a.m. to 5:00 p.m. Eastern Time

METADATA STANDARD NAME FGDC Content Standards for Digital Geospatial Metadata  
METADATA STANDARD VERSION FGDC-STD-001-1998  
METADATA TIME CONVENTION local time

METADATA SECURITY INFORMATION  
METADATA SECURITY CLASSIFICATION SYSTEM Unclassified  
METADATA SECURITY CLASSIFICATION Unclassified  
METADATA SECURITY HANDLING DESCRIPTION  
Unclassified

[Hide Metadata Reference ▲](#)