

Center for LiDAR Information Coordination and Knowledge – LiDAR Point Cloud Data

<http://lidar.cr.usgs.gov/index.php>

Program Highlights

Data Highlights

- Provides information about discrete-return Light Detection and Ranging (LiDAR), including information and download capability for [publicly available LiDAR](#) and the ability to [look for articles](#) and other Web sites about LiDAR.

Advantages

- LiDAR data available from CLICK are in native format.
- Point cloud data maintain the most detail and precision

Disadvantages

- Datasets are large.
- Not as easy to work with as gridded data available through the NED.

Program Overview

The goal of the Center for LiDAR Information Coordination and Knowledge (CLICK) is to facilitate data access, user coordination, and education of LiDAR remote sensing for scientific needs. The program responds to the increasing demand for research utilizing all information generated from LiDAR remote sensing data and not just bare earth Digital Elevation Models (DEMs).

CLICK focuses on managing point cloud data, not necessarily bare earth data. However, many of the point clouds may be classified to indicate bare earth points.

Data Details

LiDAR point cloud data available through the site are provided “As Is,” with varying processing and accuracy. The U.S. Geological Survey (USGS) is not responsible for bare earth processing, populating fields other than xyz, or validating reported vertical and horizontal accuracies.

Data Applicability to Flood Mapping Program

Federal Emergency Management Agency Guidelines and Standards for Flood Risk Analysis and Mapping, provides the specifications for elevation data for Risk Mapping Assessment, and Planning (Risk MAP) projects. Most LiDAR data will satisfy these data standards, and thus can be used on most Risk MAP projects. Some older datasets were provided without, or with very limited, metadata. These may or may not provide reliable accuracy statements. Most newer and current datasets include documentation of the tested accuracy of the dataset.

Data Availability

See viewer at <http://earthexplorer.usgs.gov/>. **Data Ordering**

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