

Lidar Fact Sheet

Matagorda County, Texas

Overview

The Matagorda County lidar data set was received from the Texas Water Development Board (TWDB). It was reviewed by the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center at a macro level, which involves checking for format and point characteristics in about 5% of the tiles. In addition, the entire data set is reviewed to establish that bare-earth processing and proper classification of the points has been performed. The review does not include accuracy or data-processing (e.g., bare earth quality, flightline mismatch, feature removal) assessments.

Data Attributes

The Texas county data were delivered as bare-earth processed data sets. However, no accuracy or qualitative assessment information was provided. The data were flown and processed to meet Federal Emergency Management Agency (FEMA) flood mapping standards (root mean square error of 18.5 centimeters in open, bare terrain). Point spacing is nominally on the order of 1.5 to 2.0 meters. For full metadata, follow this link: www.csc.noaa.gov/crs/tcm/ldartdat/metatemplate/tx2006_matagorda_template.html

Review Results

According to the macro review, the data set on average appears to be of good quality. This overall determination is a qualitative assessment of the results from the reviews listed below. No accuracy assessment was performed.

Tile Review

Some minor formatting issues were noted: 1) no flightline source information and 2) some noisy two-return data. The points falling on water in areas with a “shoreline” have been classified as “unclassified.” This is acceptable but does not follow the American Society for Photogrammetry and Remote Sensing (ASPRS) water classification (class 9). These issues are judged to be relatively minor in terms of overall data quality.

Bare Earth Point Density Review

There is a strong flightline density as evidenced by the striped look to the bare-earth point densities (color variations; Figure 1). Water points have been removed in the immediate coastal areas; however, there are a couple tiles with water points still classified as ground. Additionally, lakes and ponds still have water points classified as ground. These issues aside, the data, from a density point of view, appear to be of good quality.

For More Information

NOAA Coastal Services Center
Coastal Remote Sensing Program
(843) 740-1200 • www.csc.noaa.gov/crs/



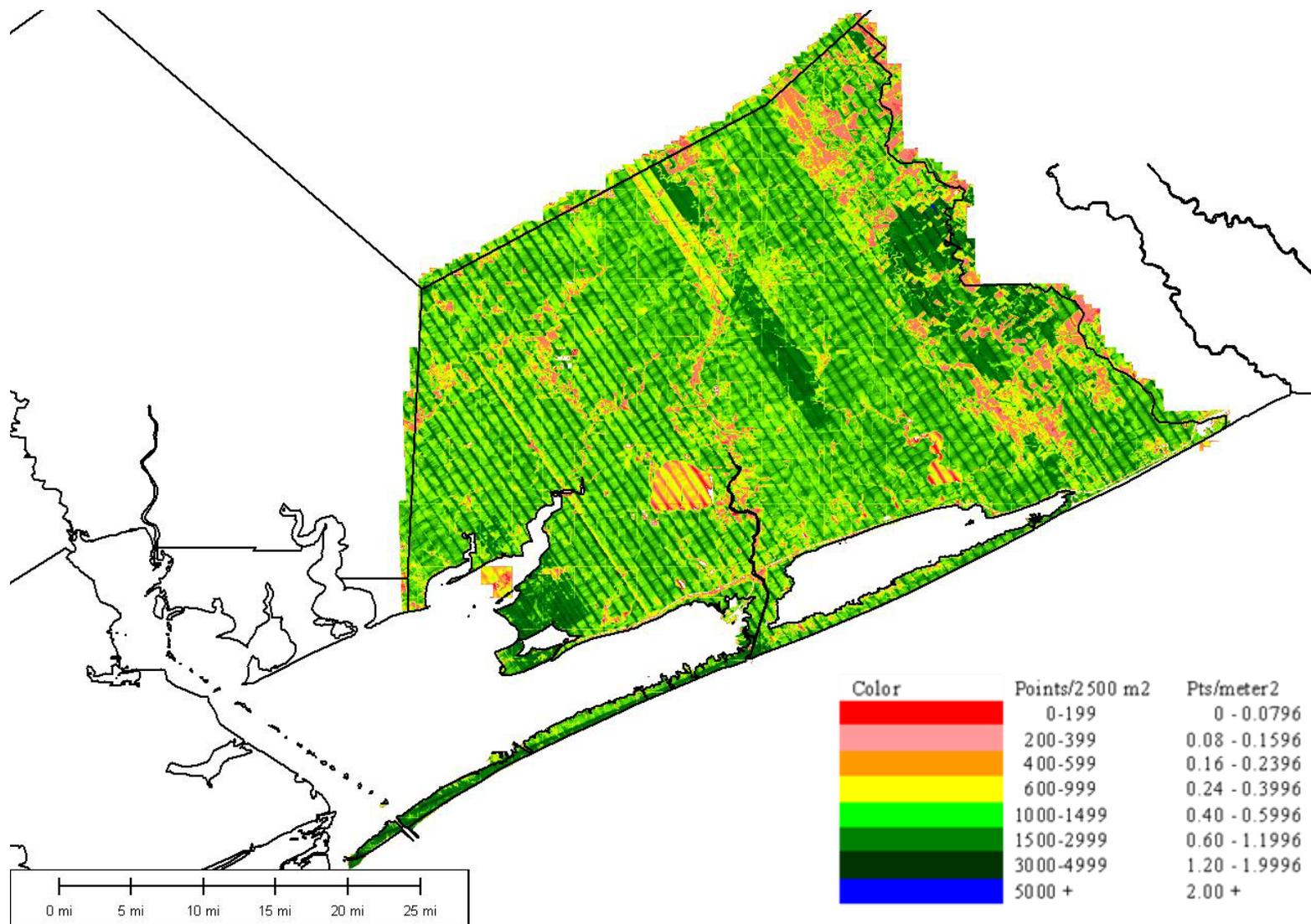


Figure 1. Bare-earth point count density (pts/2500 square meters) in Matagorda County.