Gulf Islands National Seashore-Florida
USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography
Map Tile 480000e_3356000n_16z
Santa Rosa Island

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The map does not show navigation waters.

Topography generated using the NASA Experimental Advanced Airborne Research Lidar (EAARL). September 2005

This map is intended for use in navigation.

Project Description
The high resolution topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS), National Aeronautics and Space Administration (NASA), National Park Service (NPS), and Eckerd College. The goal was to provide a high-resolution digital elevation model (DEM) of the Santa Rosa Island (Florida) area. The map shows the topography of the area, including underwater topography, and was created to support the mapping of coastal and subaerial environments.

Data Description
The data used to create this map were collected during September 2005, a few days after Hurricane Katrina made landfall along the Gulf coast, by the NASA EAARL system mounted on an aircraft. The EAARL uses a “waveform-resolving” green laser capable of capturing detailed topographic information. The laser soundings used to create this map were collected during September 2005, a few days after Hurricane Katrina made landfall along the Gulf coast, by the NASA EAARL system mounted on a Cessna 310 aircraft. The EAARL uses a “waveform-resolving” green laser capable of capturing detailed topographic information.

Data Collection
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Further Reading


Wright, C.W. and Brock, J.C., 2002, EAARL: A Lidar for mapping shallow coral reefs and other coastal environments, AREC-1 Annual Conference, 1 computer optical disc.

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