
Gulf Islands National Seashore-Mississippi
USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography
Map Tile 344000e_3346000n_16z
Horn Island

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Further Reading

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 one laser sounding per square meter. The data were processed by the USGS FISC (Florida Integrated Science Center) office, St. Petersburg, FL resulting in a 240 m swath for each flightline. Data collection occurred with approximately 50% overlap between flightlines, resulting in about 2 km by 2 km data tiles in 32-bit floating-point integer GeoTiff format. Contour line and hillshade layers were generated from the Lidar data.

Topography mapped using NASA Experimental Advanced Airborne Research Lidar (EAARL) September 2005

Project Description

The shaded-relief topography map was produced in collaboration with the NASA Wallops Flight Facility, the NASA Experimental Advanced Airborne Research Lidar (EAARL). The Lidar-derived topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS) Coastal and Marine Geology Program, the Northeast Coastal and Barrier Network of the National Park Service (NPS) Inventory and Monitoring Program, the South Florida/Caribbean Network of the NPS Inventory and Monitoring Program, and the National Aeronautics and Space Administration (NASA) Wallops Flight Facility, the NASA Experimental Advanced Airborne Research Lidar (EAARL).

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Prepared in cooperation with the NATIONAL PARK SERVICE (NPS) AND
THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)


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