Gulf Islands National Seashore-Florida
USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography
Map Tile 464000e_3354000n_16z
Perdido Key

By John C. Brooks, C. Wayne Wright, Amar Nayegandhi, Iris Wilson, and Laurinda J. Travers

U.S. Geological Survey, Coastal and Marine Geology Program, St. Petersburg, FL; NASA Wallops Flight Facility, Wallops Island, VA

Further Reading


This product is based on data from an innovative airborne Light Detection and Ranging (LiDAR) instrument under development at the NASA Wallops Flight Facility. The aim of the partnership that created this product is to develop advanced survey techniques for mapping barrier island geomorphology and habitats, and to enable the monitoring of ecological and geological change within National Seashores.

This Lidar-derived topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS) Coastal and Marine Geology Program, the National Park Service (NPS), and the National Aeronautics and Space Administration (NASA).

Data Description

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 and incorporated into this map product.

Project Description

This map is not intended for use in navigation.

This map contains corrections to height values collected during September, 2005, a few days after Hurricane Katrina made landfall along the Gulf coast, by the NASA Experimental Advanced Airborne Research Lidar (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 and incorporated into this map product.

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