This map is not intended for use in navigation.


Project Description

The National Aeronautics and Space Administration (NASA) Wallops Flight Facility. The aim of the partnership that created this product is to develop innovative methods to assist in mapping coastal geomorphology and habitats, and to enable the monitoring of coastal and barrier island changes through advanced survey techniques. Data collection occurred with approximately 50% overlap between flightlines, resulting in about one laser sounding per square meter. The data were processed by the USGS FISC (Florida Integrated Science Center) office, St. Petersburg, FL to produce 1-meter resolution raster images that can be easily ingested into a Geographic Information System (GIS). The data were generated from the Lidar data tile and incorporated into this map product.

The laser soundings used to create this map were collected during April 2005 by the NASA EAARL system mounted on a Cessna 310 aircraft. The EAARL uses a “waveform-resolving” green laser capable of mapping submarine and subaerial (land) surfaces. The data were organized as 2 km by 2 km data tiles in 32-bit floating-point integer GeoTiff format.

Data Description

C. Wayne Wright, ETI Professionals, Contracted to USGS, St. Petersburg, FL

NPS Northeast Coastal and Barrier Network Inventory and Monitoring Program, and the USGS Coastal and Marine Geology Program, the Northeast Coastal and Barrier Network of the National Park Service (NPS) monitoring Program, and the U.S. Geological Survey, FISC, St. Petersburg, FL

Prepared in cooperation with the Cape May Project Research Team, and the National Seashores Monitoring Program, Cape May, NJ


Coastal National Historical Park

USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography

Map Tile 362000e_4122000n

By: John C. Brock1, C. Wayne Wright1, Amar Nayegandhi1, Sara Stevens1, and L. J. Travers2

1 U.S. Geological Survey, 345 Middlefield Road, Menlo Park, CA
2 U.S. National Park Service, 2301 Constitution Ave, NW, Washington, DC

This project was sponsored by the U.S. National Park Service (NPS) Coastal and Marine Geology Program, the Northeast Coastal and Barrier Network of the National Park Service (NPS) monitoring Program, and the U.S. Geological Survey, FISC, St. Petersburg, FL

This project was sponsored by the NPS Northeast Coastal and Barrier Network Inventory and Monitoring Program, Miami, FL and the National Aeronautics and Space Administration (NASA) Wallops Flight Facility, the NASA Experimental Advanced Airborne Research Lidar (EAARL).

For additional information on available data products or to download the data, please visit the USGS Coastal and Marine Geology Program web site at http://geomapapp.cr.usgs.gov and click on the U.S. National Park Service button.

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Colonial National Historical Park

USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography

Map Tile 362000e_4122000n

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