This map is not intended for use in navigation.

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

Universal Transverse Mercator. 1983 North American Datum-Zone 19 North

May 20­22, 2002: Ann Arbor, MI, Veridian International Conferences, 1 computer optical disc.


Further Reading

Eckerd College, Contracted to USGS, St. Petersburg, FL
ETI Professionals, Contracted to USGS, St. Petersburg, FL
NPS South Florida/Caribbean Network Inventory and Monitoring Program, Miami, FL
NPS Coastal and Marine Geology Program, the Northeast Coastal and Barrier Network of the National Park Service, and the U.S. Geological Survey, Washington, D.C.

This Lidar­derived topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS) and the National Park Service (NPS) and the National Aeronautics and Space Administration (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 product is based on data from an innovative project known as the NASA Experimental Advanced Airborne Research Lidar (EAARL). This technology uses airborne Light Detection and Ranging (LiDAR) instrument under development at the NASA Wallops Flight Facility, Wallops Island, VA.

The laser soundings used to create this map were collected during May 4, 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) topography in a single overflight. The EAARL system is typically flown at 300 m altitude AGL, resulting in a 240 m swath sounding per square meter. The data were processed by the USGS FISC (Florida Integrated Science Center) office, St. Petersburg, FL for each flightline. Data collection occurred with approximately 50% overlap between flightlines, resulting in about one laser topography tile being generated from the Lidar data tile and incorporated into this map product.

The data were organized as 2 km by 2 km data tiles in 32­bit floating­point integer GeoTiff format. Contour line and hillshade layers were included in the map product and were visually interpreted to produce 1­meter 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.

Map Tile 418000e_4612000n_19z

NUCLEAR INVENTORIES

TILE 84 of 90 (BE)

NO DATA

Legend

1:2500

SCALE 1:2500

CONTOUR INTERVAL 1 METER

Contribution of the South Florida/Caribbean Network of the NPS Inventory and Monitoring Program, Miami, FL

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Prepared in cooperation with the USGS-NPS-NASA Bare Earth (BE) Topography-Cape Cod National Seashore, Map Tile 418000e_4612000n_19z

Cape Cod National Seashore USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography

By John C. Brock, J. C. Brock, W. A. Patterson, A.M. Rayegardesh, and L. J. Travers

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NO DATA