Dry Tortugas National Park
USGS-NPS-NASA EAARL Submarine Topography
Map Tile 304000e_2724000n

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NOAA National Marine Fisheries Service, Silver Spring, MD
NOAA National Geophysical Data Center, Boulder, CO

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This map is not intended for use in navigation.

NORTH AMERICAN VERTICAL DATUM OF 1988
NAVD 88 Elevation (meters)

Universal Transverse Mercator. 1983 North American datum
Zone 17 North

DATA DESCRIPTION

Sounding per square meter. The data were processed by the USGS Center for Coastal and Watershed Studies to produce (land) topography in a single overflight. The EAARL system is typically flown at 300 m altitude AGL, resulting in a 240 m swath.

The laser soundings used to create this map were collected during July and August 2004 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.

The laser soundings are being used. This sensor has the potential to make significant contributions in this realm for measuring water depth and conducting cross-environment surveys. High spectral resolution, water-column correction, and low costs were found to be key factors in providing accurate and affordable imagery to managers of coastal habitats.

PROJECT DESCRIPTION

NASA Experimental Airborne Advanced Research Lidar (EAARL) are being used. This sensor has the potential to make significant contributions in this realm for measuring water depth and event assessment (for example: bleaching, hurricanes, disease outbreaks). As part of this project, data from an innovative instrument under development at the NASA Wallops Flight Facility, the NASA Experimental Airborne Advanced Research Lidar (EAARL) are being used. This sensor has the potential to make significant contributions in this realm for measuring water depth and conducting cross-environment surveys. High spectral resolution, water-column correction, and low costs were found to be key factors in providing accurate and affordable imagery to managers of coastal habitats.

FURTHER READING

...generated from the lidar data tile and incorporated into this map product.

Organized as 2 km by 2 km data tiles in 32-bit floating-point integer GeoTiff format. Contour line and hillshade layers were 1-meter resolution raster images that can be easily ingested into a Geographic Information System (GIS). The data were...