Map Tile 572000e_2782000n_17z

Florida Keys National Marine Sanctuary
USGS-NASA-NOAA-NPS EAARL Submarine Topography
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By: John C. Brock, C. Kip Wright, Ernie Neugang, L. Lucas Minnesota, M. Patterson and L. Launay

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NASA, Wallops Flight Facility, Wallops Island, VA
NOAA, National Ocean Service, National Geodetic Survey Remote Sensing Division, Silver Spring, MD
NPS, South Florida/Caribbean Network, Key West, FL

October 1, 2007

Prepared in cooperation with:

THE NATIONAL GEOGRAPHICS AND SPACE ADMINISTRATION (NASA),
THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA),
AND THE NATIONAL PARK SERVICE (NPS)

Universal Transverse Mercator - 1983 North American Datum - Zone 17 North

*Scale* 1:20,000

Data Description

The laser soundings used to create this map were collected in April 2006 by the NASA EAARL system mounted on a NOAA Twin Otter aircraft operated by the Aeronautics and Space Administration (NASA) Wallops Flight Facility and contracted to the US Geological Survey Florida Integrated Science Center to produce 1-meter resolution raster images that can be easily ingested into a Geographic Information System (GIS) software. The data were organized as 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 tile and incorporated into this map product. The data were processed by the USGS Florida Integrated Science Center to produce 1-meter resolution raster images that can be readily imported into Geographic Information System (GIS) software for further processing and analysis. The data were processed for purposes of habitat mapping, ecological monitoring, change detection and event assessment (for example: coral bleaching, hurricanes).

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This lidar-derived submarine topography map was produced as a collaborative effort between the U.S. Geological Survey (USGS) Coastal and Marine Geology Program, the National Aeronautics and Space Administration (NASA) Wallops Flight Facility, the National Park Service (NPS), and the National Ocean Service (NOAA). The National Park Service (NPS) obtained the National Park Service (NPS) lidar data from the National Aeronautics and Space Administration (NASA) Wallops Flight Facility, the NASA Experimental Advanced Airborne Research Lidar (EAARL). The sensor has the potential to make significant contribu-

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