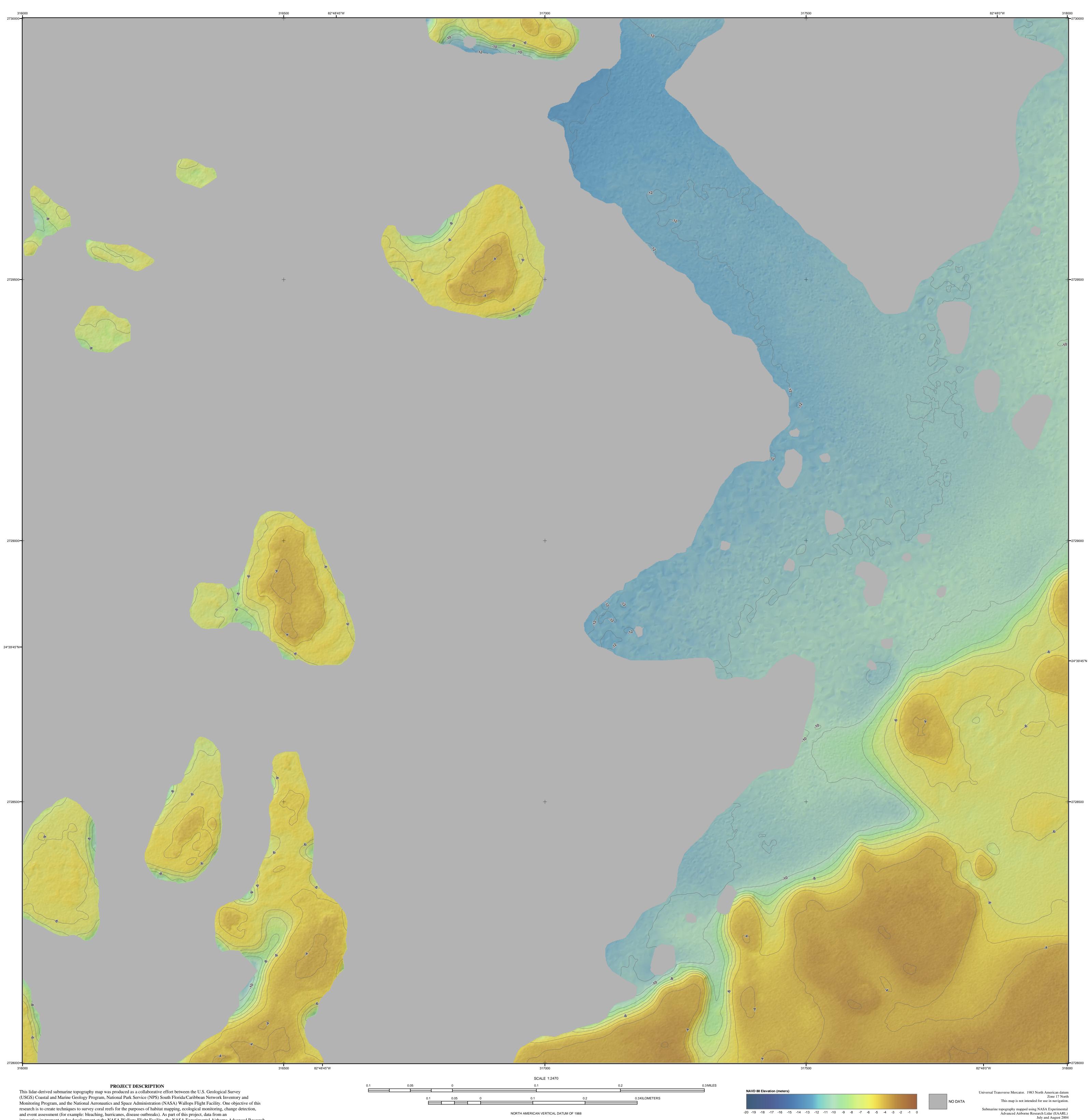
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and event assessment (for example: bleaching, hurricanes, disease outbreaks). As part of this project, data from an innovative instrument under development at the NASA Wallops Flight Facility, the NASA Experimental Airborne Advanced Research Lidar (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

DATA DESCRIPTION

factors in providing accurate and affordable imagery to managers of coastal habitats.

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 (land) topography in a single overflight. The EAARL system is typically flown at 300 m altitude AGL, resulting in a 240 m swath for each flightline. 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 Center for Coastal and Watershed Studies to produce 1-meter resolution raster images that can be easily ingested into a Geographic Information System (GIS). 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. FURTHER READING

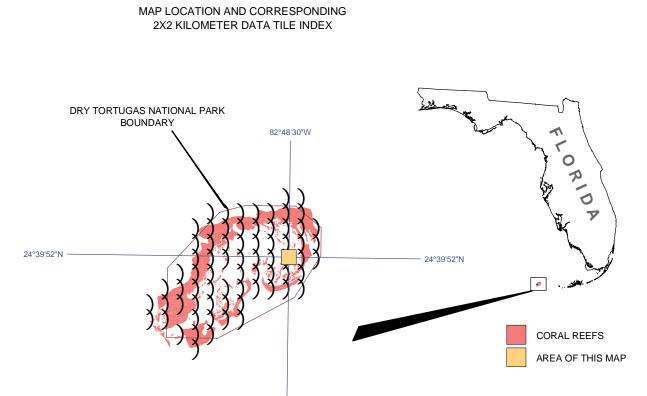
May 20-22, 2002: Ann Arbor, MI, Veridian International Conferences, 1 computer optical disc.

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Dry Tortugas National Park USGS-NPS-NASA EAARL Submarine Topography Map Tile 316000e_2730000n

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