This map is not intended for use in navigation.

Project Description:
This lidar topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS), the National Park Service (NPS), and the National Aeronautics and Space Administration (NASA). The aim of the partnership that created this map was to produce a high-resolution elevation map for the shallow coral reefs and other coastal environments in the study area. The map was generated from the Lidar data tile and incorporated into this map product.

Data Collection:
The laser soundings used to create this map were collected during August 2004 by the NASA Experimental Advanced Airborne Research Lidar (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.

Data Processing:
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 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:

Map Location and Corresponding Data Tile:
Map Tile 484000e_4230000n

Scale:
1:2500

Geographic Coordinate System:
North American Datum of 1983, Universal Transverse Mercator

Credits: