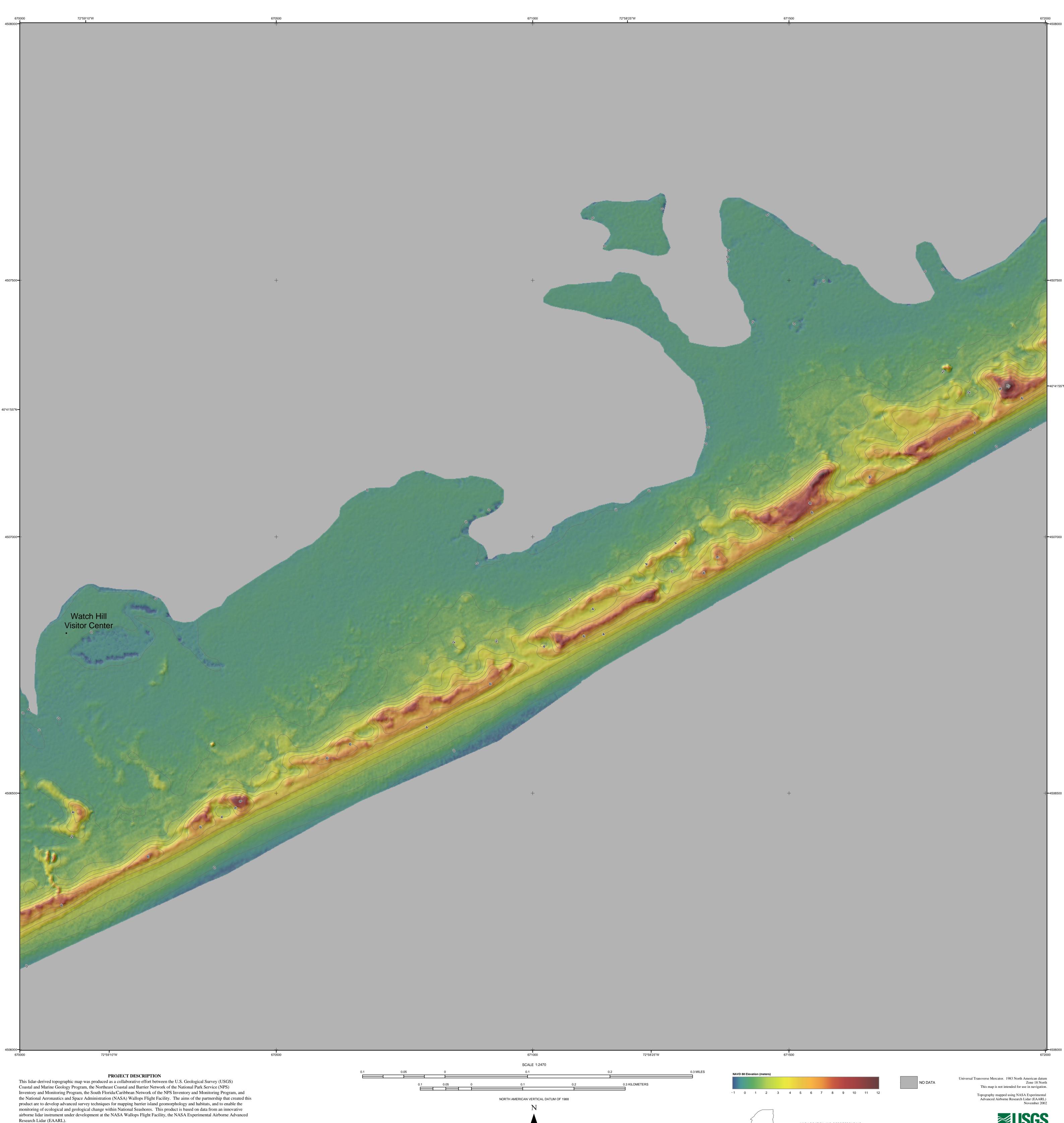
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DATA DESCRIPTION The laser soundings used to create this map were collected during November 2002 by the NASA EAARL system mounted on a Cessna 310 aircraft. The EAARL uses a 'waveform-resolving' green laser capable of mapping submarine and subaerial (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 Brock, J.C., and Sallenger, Ashbury, 2001, Airborne topographic lidar mapping for coastal science and resource management:
- U.S. Geological Survey Open File Report 01-46, p. 4 Brock, J.C., Wright, C.W., Nayegandhi, Amar, Clayton, Tonya, Hansen, Mark, Longenecker, John, Gesch, Dean, and Crane, Michael, 2002, Initial results from a test of the NASA EAARL lidar in the Tampa Bay Region: Transactions of the Gulf
- Coast Association of Geological Societies, v. 52, p. 89-98. Wright, C.W. and Brock, J.C., 2002, EAARL: A lidar for mapping shallow coral reefs and other coastal environments, in the Proceedings of the Seventh International Conference on Remote Sensing for Marine and Coastal Environments, Miami, May 20-22, 2002: Ann Arbor, MI, Veridian International Conferences, 1 computer optical disc.

Fire Island National Seashore **USGS-NPS-NASA EAARL Bare Earth Topography** Map Tile 670000e_4508000n

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