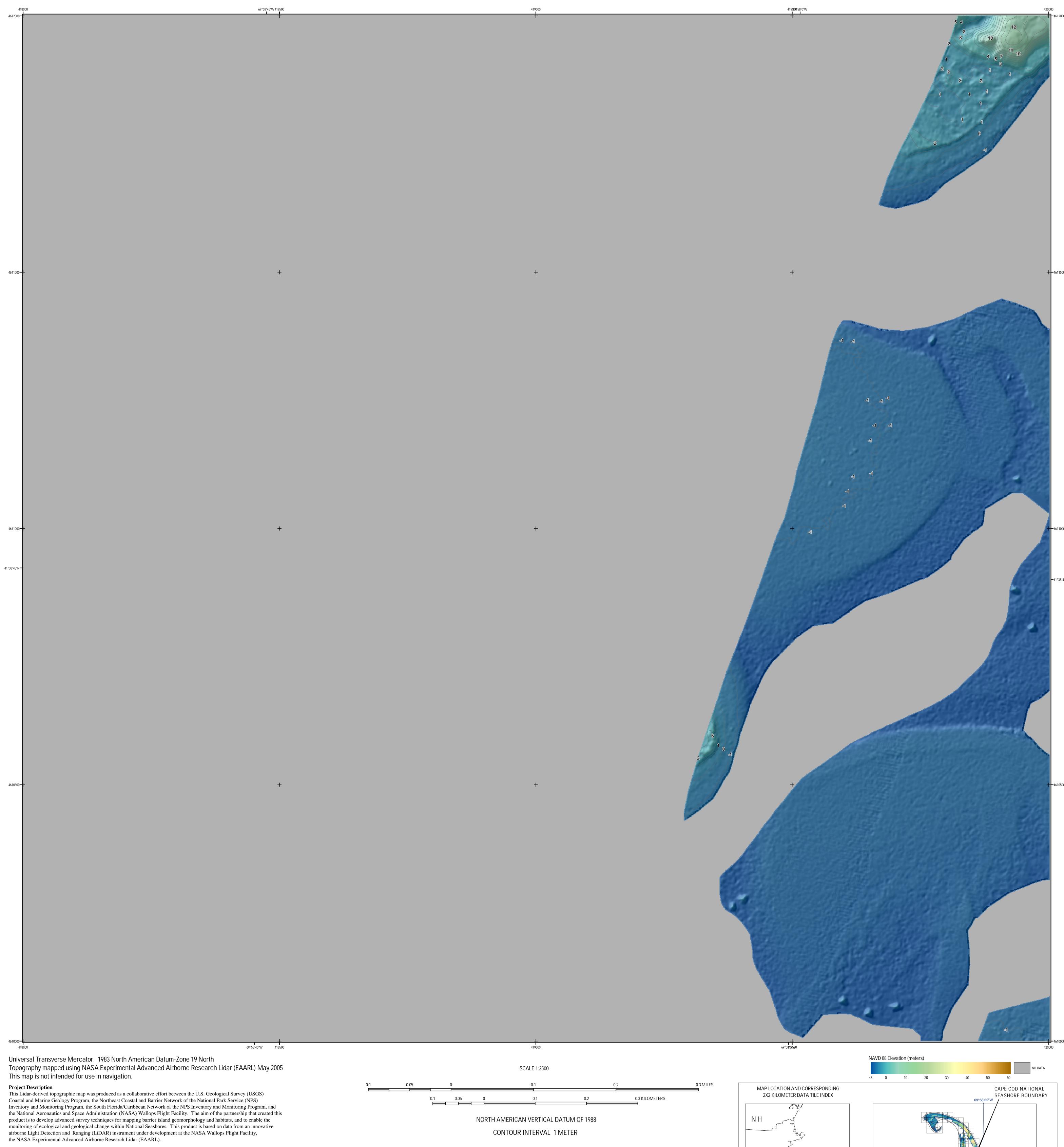
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OPEN FILE REPORT 2007-1375 TILE 84 of 90 (BE) Brock, J.C., Wright, C.W., Patterson, M., Nayegandhi, A., and Travers, L. J., 2007, USGS-NPS-NASA Bare Earth (BE) Topography-Cape Cod National Seashore, U. S. Geological Survey Open File 2007-1375 (On DVD).



Data Description

The laser soundings used to create this map were collected during May 4, 2005 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 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 Brock, J.C., and Sallenger, A., 2001, Airborne topographic Lidar mapping for coastal science and resource management:

Brock, J.C., Wright, C.W., Nayegandhi, A., Clayton, T., Hansen, M., Longenecker, J., Gesch, D., and Crane, M., 2002, Initial results from a test of the NASA EAARL Lidar in the Tampa Bay Region: Transactions of the Gulf

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

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,

U.S. Geological Survey Open File Report 01-46, p. 4.

Cape Cod National Seashore USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography Map Tile 418000e_4612000n_19z

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