Prepared in cooperation with the NATIONAL PARK SERVICE (NPS) AND THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)





TILE 17 of 58 (BE) Brock, J.C., Wright, C.W., Patterson, M., Nayegandhi, A., and Travers, L. J., 2007, USGS-NPS-NASA Bare Earth Topography-Assateague Island National Seashore, U. S. Geological Survey Open File Report 2007-1176 (On DVD).

OPEN FILE REPORT 2007-1176

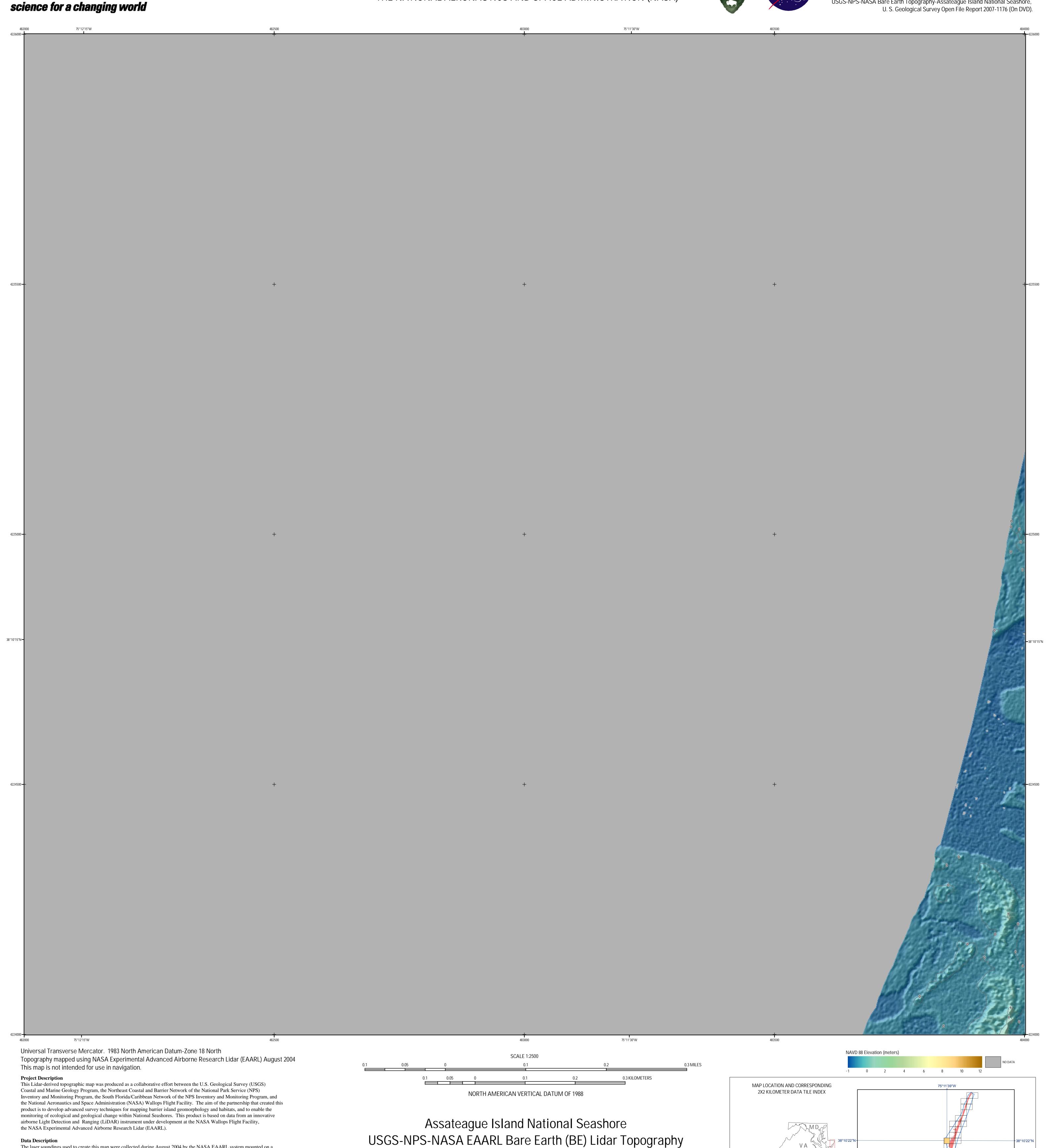
ASSATEAGUE ISLAND

- NATIONAL SEASHORE

BOUNDARY

LAND

AREA OF THIS MAP



Map Tile 482000e_4226000n

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2007

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Brock, J.C., and Sallenger, A., 2001, Airborne topographic Lidar mapping for coastal science and resource management: U.S. Geological Survey Open File Report 01-46, p. 4.

The laser soundings used to create this map were collected during 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

organized as 2 km by 2 km data tiles in 32-bit floating-point integer GeoTiff format. Contour line and hillshade layers were

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

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

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.