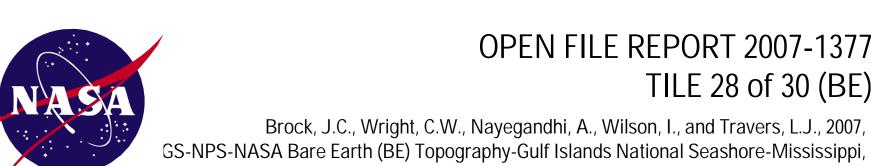
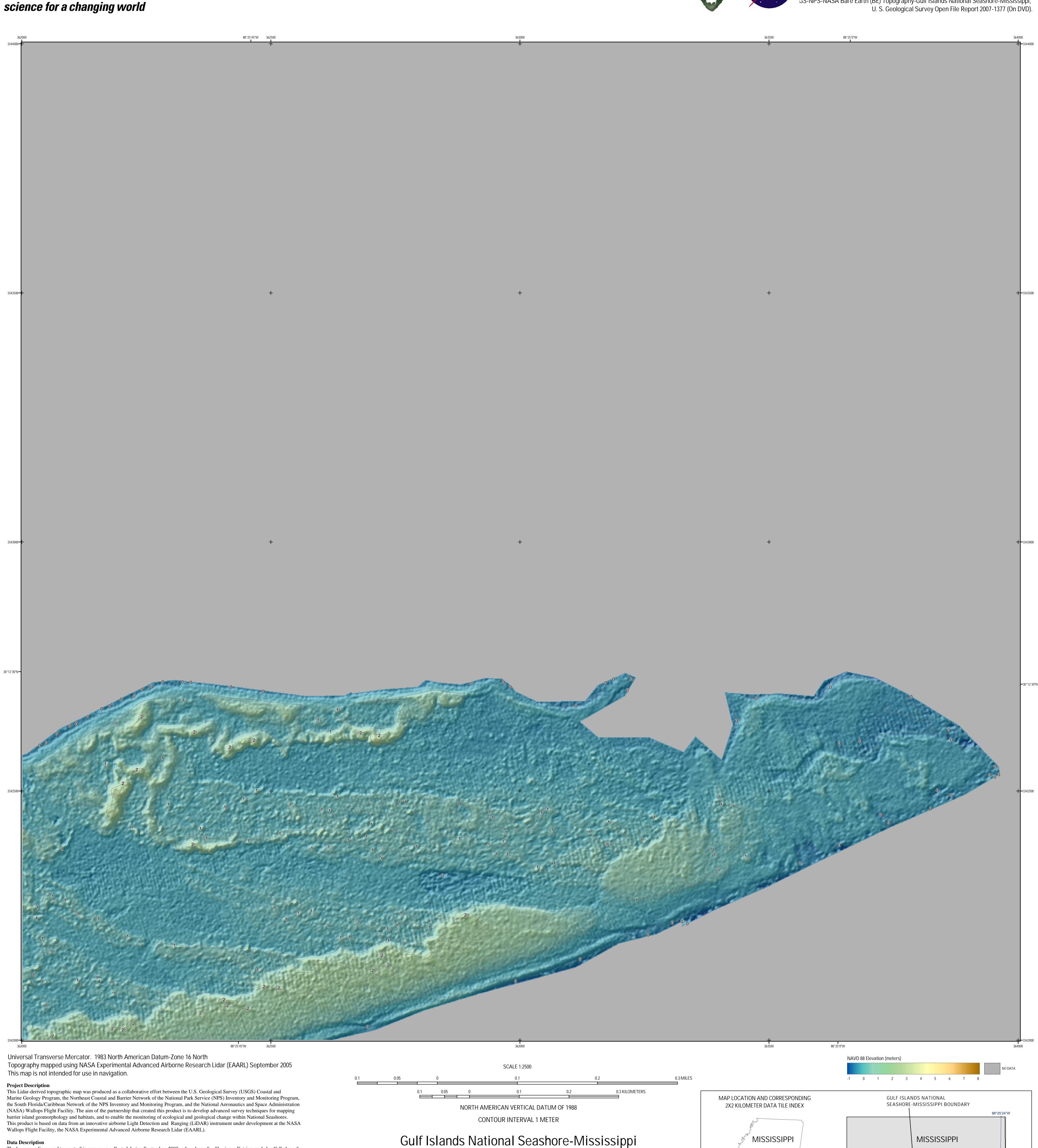
88°25'24"W

GULF ISLANDS NATIONAL SEASHORE

MISSISSIPPI STUDY AREA

AREA OF THIS MAP TILE





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

The laser soundings used to create this map were collected during September, 2005, a few days after Hurricane Katrina made landfall along the

Gulf coast, by the NASA EAARL system mounted on a Cessna 310 aircraft. The EAARL uses a "waveform-resolving" green laser capable of

tile and incorporated into this map product.

Data Description

Further Reading 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.

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,

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.

Nayegandhi, A., Brock, J.C., Wright, C.W., OConnell, M.J., 2006, Evaluating a small footprint, waveform-resolving lidar over coastal vegetation communities, Photogrammetric Engineering and Remote Sensing, Vol. 72, No. 12. pp. 1407-1417.

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USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography

Map Tile 362000e_3344000n_16z

Petit Bois Island