Cape Cod National Seashore
USGS-NPS-NASA EAARL Bare Earth (BE) Lidar Topography
Map Tile 416000e_4650000n_19z

By John C. Brock, C. Wayne Wright, Matt Patterson, Amar Nayegandhi, and Laurinda J. Travers

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Map Location and Corresponding Area of This Map Tile

This map is not intended for use in navigation.

Universal Transverse Mercator
CONTOUR INTERVAL 1 METER
SCALE 1:2500

NORTH AMERICAN VERTICAL DATUM OF 1988

Topography mapped using NASA Experimental Advanced Airborne Research Lidar (EAARL) May 2005

This product is based on data from an innovative aerial mapping platform and a new airborne LiDAR system under development at the NASA Wallops Flight Facility.

Further Reading


This map was generated by the National Oceanic and Atmospheric Administration’s National Geodetic Survey.

Map Data: USGS

Map Projection: Universal Transverse Mercator (UTM) 1983 North American Datum-Zone 19 North

Map Tile 416000e_4650000n_19z

North American Datum of 1983

EASTING 4160000 NA83
NORTHING 4650000 NA83

evinced from the Lidar data tile and incorporated into this map product.

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 footprint. The data were collected with approximately 50% overlap between flightlines, resulting in about one laser sounding per square meter. The data were collected 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 for each flightline. Data collection occurred with approximately 50% overlap between flightlines, resulting in about one laser sounding per square meter. 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