This map is not intended for use in navigation.


Universal Transverse Mercator - 1983 North American Datum-Zone 18 North

This Lidar-derived topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS), the National Aeronautics and Space Administration (NASA) Wallops Flight Facility. The aim of the partnership that created this map is to develop advanced survey techniques for mapping barrier island geomorphology and habitats, and to enable the monitoring of ecological and geological change within National Seashores. This product is based on data from an innovative airborne Light Detection and Ranging (LiDAR) instrument under development at the NASA Wallops Flight Facility.

Data Description

The laser soundings used to create this map were collected during April 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 return for every 50 cm. The data were organized as 2 km by 2 km data tiles in 32-bit floating-point integer GeoTiff format.

Further Reading

