Gulf Islands National Seashore-Florida
USGS-NPS-NASA EEAIRL Bare Earth (BE) Lidar Topography
Map Tile 460000e_3354000n_16z
Perdido Key

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This map is not intended for use in navigation.

Data Description
This map of the Gulf Islands National Seashore-Florida was produced using NASA Experimental Advanced Airborne Research Lidar (EAARL) data. The data 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 collecting raw data at the one laser sounding per square meter. The data were processed by the USGS FISC (Florida Integrated Science Center) office, St. Petersburg, FL 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 ingested into a Geographic Information System (GIS). The data were organized into a 2 x 2 kilometer grid, resulting in a 240 m resolution raster image that can be easily ingested into a Geographic Information System (GIS). The data were organized into a 2 x 2 kilometer grid, resulting in a 240 m resolution raster image that can be easily ingested into a Geographic Information System (GIS).

Project Description
This topographic map was produced as a collaborative effort between the U.S. Geological Survey (USGS), National Aeronautics and Space Administration (NASA), National Park Service (NPS), National Oceanic and Atmospheric Administration (NOAA), and Eckerd College, under a partnership between NASA Wallops Flight Facility, the U.S. Geological Survey (USGS) Coastal and Marine Geology Program, and Gulf Islands National Seashore. The map is intended to be a useful tool for the study of coastal and barrier island geomorphology and habitats, with the emphasis on understanding coastal change under future global climate change predictions. The map is expected to be useful to researchers in assessing current coastal change and future global climate change predictions, as well as to coastal managers and policy makers for assessing coastal change and future global climate change predictions.

Other Description
This map is intended to be used for assessing current and future coastal change in the Gulf Islands National Seashore-Florida. The map is intended to be used for assessing current and future coastal change in the Gulf Islands National Seashore-Florida. The map is intended to be used for assessing current and future coastal change in the Gulf Islands National Seashore-Florida.