## National Geodetic Survey Positioning America for the Future

### geodesy.noaa.gov



The National Shoreline

#### NOAA's National Geodetic Survey (NGS)

produces the national shoreline which provides critical baseline data for updating nautical charts; defining our nation's territorial limits, including the Exclusive Economic Zone; and managing our coastal resources. The national shoreline contributes to our nation's economy by supporting: maritime trade and transportation, coastal and marine spatial planning, coastal engineering, academic research, and insurance activities, to provide a means for enhancing our global competitiveness and more efficiently managing our resources.

# An accurate, consistent, and up-to-date national shoreline can provide and improve:

- Official nautical charts for maritime navigation,
- Data to model sea level change, storm surge, coastal flooding, and pollution trajectories,
- Contemporary ocean management plans,
- Wave and wind energy site selection,
- Land and marine geographic information system base layers, and
- Environmental analysis and monitoring.

NGS delineates the shoreline through various photogrammetric sources, including tide-coordinated stereo aerial photographs, commercial satellite imagery, Light Detection and Ranging (LiDAR), and related remote sensing technologies. The data-gathering

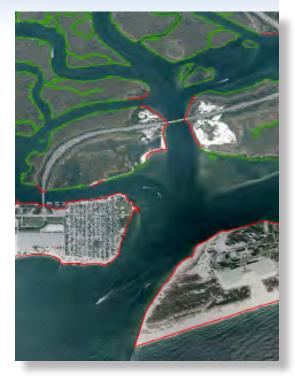


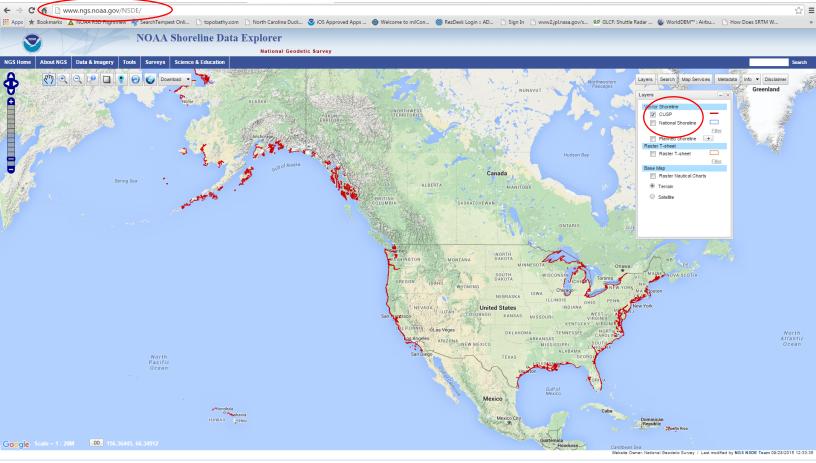
Image of Jones Inlet, Long Island, NY using Applanix Digital Sensor System. The green line represents marsh (apparent) shoreline, and red line represents mean-high water shoreline.

process results in a vector database of the national shoreline and products such as high-resolution aerial frame photographs, orthoimagery, and coastal LiDAR data sets.

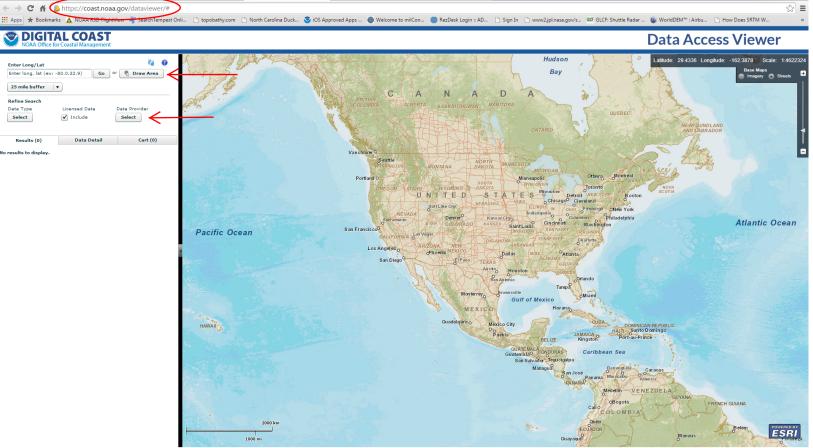
Additionally, NGS is exploring the use of emerging remote sensing technologies and methodologies to map the shoreline.

#### For more information, contact NGS:

- On the Web: http://geodesy.noaa.gov/RSD/cmp.shtml
- By Email: ngs.shoreline@noaa.gov



Shoreline Data Explorer for vector, points, and polygons of shoreline and alongshore features www.ngs.noaa.gov/NSDE/



NOAA Digital coast for NGS imagery and coastal elevation data https://coast.noaa.gov/dataviewer/#

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