



NOS Update 2016

WG/DIAP

2/23/2016



Emergency Response Imagery

- **NOS National Geodetic Survey**
 - POC Mike Aslaksen mike.aslaksen@noaa.gov
- **Remotely sensed data is acquired to support NOAA's requirements as well as other emergency response requirements (Mission Essential Activity #3 under Primary Mission Essential Function DOC-2)**
- **The remotely sensed data collected is disseminated to federal, state, and local government agencies as well as the general public to facilitate support efforts. The data is collected, processed, and disseminated in GIS ready formats by NOAA.**
- **Updates for FY15:**
 - New nadir (down looking) and oblique cameras



Platforms



NOAA King Air 350ER

NOAA Otter DHC-6





FY 16 Updates



- NGS Emergency Response imagery is spatially referenced, which allows it to be ingested into Geographic Information Systems (GIS) software.
- Recently delivered the TopoBathy from Sandy Supplemental funding, which is currently being integrated into spatial products by OCM



Post-Sandy Topo/Bathy Lidar Data (accessible via NOAA Digital Coast)

← → ↺

https://coast.noaa.gov/dataviewer/#app=b23b&bda3-selectedIndex=1

☆

☰

DIGITAL COAST

NOAA Office for Coastal Management

Enter Long/Lat

-78.332,33.872

Go

or

Draw Area

no buffer

▼

Refine Search

Data Type

Change

✖

Licensed Data

☒ Include

Data Provider

Select

Results (16)

Data Detail

Cart (0)

Zoom

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2014 NOAA Topobathy DEM: Post-Sandy (SC to NY)

Size:

58,936 MB

National Geodetic Survey Lidar Mapping

Topographic Lidar data acquired in support of NOAA's Integrated Ocean and Coastal Mapping Initiative or emergency response.

Note:

Vertical accuracy was tested separately for topo and bathy. Bathy RMSEz was 25 cm and topo was 12.5 cm.

Data Provider:

NOAA National Geodetic Survey (IOCM)

Cell Size (m):

1

Vertical Accuracy (m):

Vertical accuracy was tested separately for topo and bathy. Bathy RMSEz was 25 cm and topo was 12.5 cm.

Surface Type:

Vertical accuracy was tested separately for topo and bathy. Bathy RMSEz was 25 cm and topo was 12.5 cm.

Data Type:

Riegl V-820-Q

Tide Controlled:

No

View Metadata

Support

Data Access Viewer

Try Beta

Latitude: 38.2552 Longitude: -79.7755 Scale: 1:9244649

Base Maps

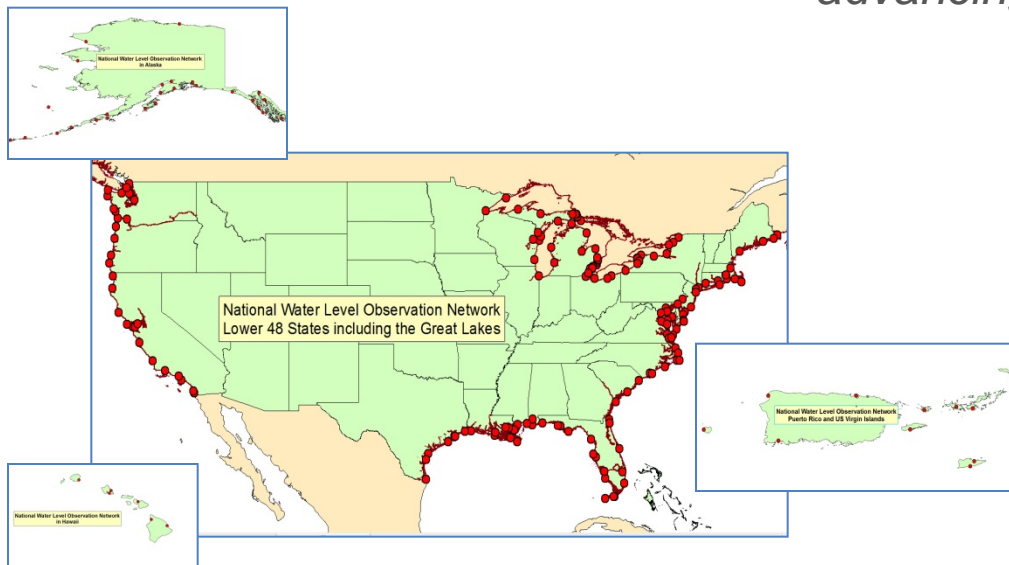
☒ Imagery

☐ Streets



Water Level Updates

advancing resilience and natural infrastructure



National Water Level Observation Network (NWLON)



System-Wide Monitoring Program (SWMP)



Data Standard Partnerships

advancing resilience and natural infrastructure



- A growing need for common standards, particularly around water level information for use primarily for SLR and extreme events
- NOS has been fostering partnership with Federal Agencies, move forwards on outlining data standards and looking at monitoring through tiered data perspective
- USACE and NOAA have already made progress with sharing common standards.



**US Army Corps
of Engineers®**



NOAA USGS Partnership on Water Levels

- 1409110 Waretown NJ
- 1409335 Rutgers Marine Field Station NJ
- 1412150 Maurice River NJ
- 1484540 Indian River at Rosedale Beach DE
- 1484701 Little Assawoman Bay DE
- Proposed Merritt harbor VA
- ~~Proposed~~ ~~Quantico~~ (not being installed/permitting)
- 2042222 Weyanoke - now **Jamestown** VA
- 1488100 Sharptown - Nanticoke River MD