



HSRP speaker guidance re navigation services offices

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Below is a synopsis of data and services that are provided from the navigation services offices in the National Ocean Service:

- National Geodetic Survey (NGS)
- Center for Operational Oceanographic Products and Services (CO-OPS), and
- Office of Coast Survey (OCS)
- University of New Hampshire – NOAA Joint Hydrographic Center and UNH Center for Coastal Ocean Mapping

National Geodetic Survey (NGS)

- National geospatial reference system and datum systems: <http://www.ngs.noaa.gov/INFO/WhatWeDo.shtml>
GNSS & GPS Data; Remote Sensing; Land Surveying; Geodesy; Datums and Transformations; Training and Education;
- Post-storm event imagery: http://storms.ngs.noaa.gov/eri_page/index.html
The imagery posted on this site was acquired by the **NOAA Remote Sensing Division** to support NOAA homeland security and emergency response requirements. In addition, it will be used for ongoing research efforts for testing and developing standards for airborne digital imagery.
- National shoreline data: <http://www.ngs.noaa.gov/INFO/OnePagers/Shoreline.pdf>
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.
- Coastal lidar: <http://coast.noaa.gov/dataregistry/search/collection/info/coastallidar>
Looking for NOAA lidar, imagery, or land cover data? Use the Data Access Viewer <https://coast.noaa.gov/dataviewer/#/>
- Coastal Imagery Viewer – https://geodesy.noaa.gov/storm_archive/coastal/viewer/index.html
NOAA Coastal Imagery were acquired at a 37.5 degree look angle using the NOAA King Air platform
- Customer Assistance: <https://www.ngs.noaa.gov/INFO/NGSinfo.shtml>

Center for Operational Oceanographic Products and Services (CO-OPS)

- Water level observations and records: <http://co-ops.nos.noaa.gov/map/>
- Sea level trends: <http://co-ops.nos.noaa.gov/sltrends/sltrends.html>
- Coastal water level extremes analysis: <http://co-ops.nos.noaa.gov/est/>
- Inundation Tool: <https://www.co-ops.nos.noaa.gov/inundation/>
- Currents and tides: <https://tidesandcurrents.noaa.gov/>
- Customer Assistance: <https://www.co-ops.nos.noaa.gov/contact.html>



Office of Coast Survey (OCS)

- NOAA Custom Chart Prototype: <https://devgis.charttools.noaa.gov/pod/>
- Precision Navigation: <https://nauticalcharts.noaa.gov/learn/precision-navigation.html>
- Sea floor bathymetry from hydrographic surveys
<http://maps.ngdc.noaa.gov/viewers/bathymetry/>
- The U.S. Federal Mapping Coordination or Integrated Working Group on Ocean and Coastal Mapping (IWG-OCM)
Site: <http://www.seasketch.org/#projecthomepage/5272840f6ec5f42d210016e4>
The Integrated Working Group on Ocean and Coastal Mapping (IWG-OCM) and the 3D Elevation Program (3DEP) are demonstrating how we can work together to coordinate on mapping requirements and plans of Federal and state agencies around the country. The goal is to help federal agencies and our partners collaborate on mapping data requirements and acquisition, for more opportunities to **"MAP ONCE, USE MANY TIMES."** We work to enable coordinated planning between agencies and with our partners in order to meet more than one mapping need with the same data. We hope to convey where mapping is planned to happen so that we eliminate redundant efforts and acquire more data that everyone can use.
- Real-time weather and oceanographic web mapping services via nowCOAST in partnership with NWS: <https://nowcoast.noaa.gov/>
- NOAA/NOS nowCoast
NOAA/NOS nowCOAST™ is a GIS_based web mapping portal displaying near real-time observations, analyses, tide predictions, model guidance watches/warnings, and forecasts for the coastal United States.
- Hydrographic charts - <https://nauticalcharts.noaa.gov/>
- Precision Navigation:
<https://nauticalcharts.noaa.gov/learn/precision-navigation.html>
<https://oceanservice.noaa.gov/economy/precision-navigation/>
- Customer Assistance: <https://www.nauticalcharts.noaa.gov/customer-service/assist/>

Center for Coastal and Oceanographic Joint Hydrographic Center

- Progress Report: <https://ccom.unh.edu/reports>
- Customer Assistance: <https://ccom.unh.edu/contact-us>

Joint products from OCS, NGS and CO-OPS

- VDatum vertical datum transformation tool to provide consistent elevations along the coast: <http://vdatum.noaa.gov/>
VDatum is designed to vertically transform geospatial data among a variety of tidal, orthometric and ellipsoidal vertical datums - allowing users to convert their data from different horizontal/vertical references into a common system and enabling the fusion of diverse geospatial data in desired reference levels.

Joint products from OCS and CO-OPS

- Operational Forecast Systems (OFS) - <https://tidesandcurrents.noaa.gov/models.html> and <https://oceanservice.noaa.gov/facts/ofc.html>