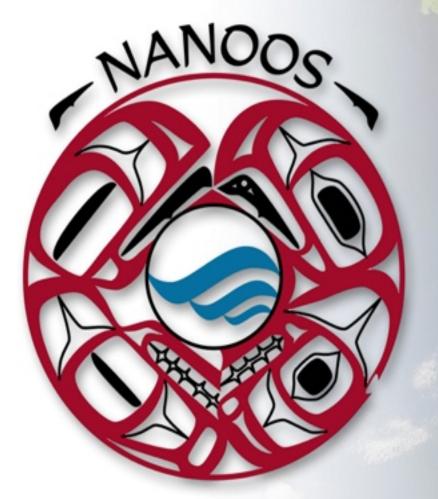
Advancing the implementation of a National Water Quality Monitoring Network (The Network) for U.S. Coastal Waters and their Tributaries

Dr. Jan Newton, UW & Northwest Association of Networked Ocean Observing Systems (NANOOS)



Northwest Association of Networked Ocean Observing Systems

The Integrated Ocean Observing System (IOOS®)
Regional Association for the Pacific NW





www.nanoos.org www.facebook.com/NANOOS.PNW



Integrated Coastal & Ocean Observation System Act of 2009

Created IOOS, with NOAA as lead Federal agency

"The purposes of this subtitle are to--

 establish a <u>national integrated System</u> of ocean, coastal, and Great Lakes observing systems,

comprised of <u>Federal and non-Federal</u> components coordinated at the national level by the National Ocean Research Leadership Council and at the regional level by a network of regional information coordination entities, and that includes in situ, remote, and other <u>coastal and ocean observation</u>, <u>technologies</u>, <u>and data management and communication systems</u>,

and is <u>designed to address regional and national needs</u> for ocean information, to gather specific data on key coastal, ocean, and Great Lakes variables, and to ensure timely and sustained dissemination and availability of these data..."





IOOS FEDERAL PARTNERS:

































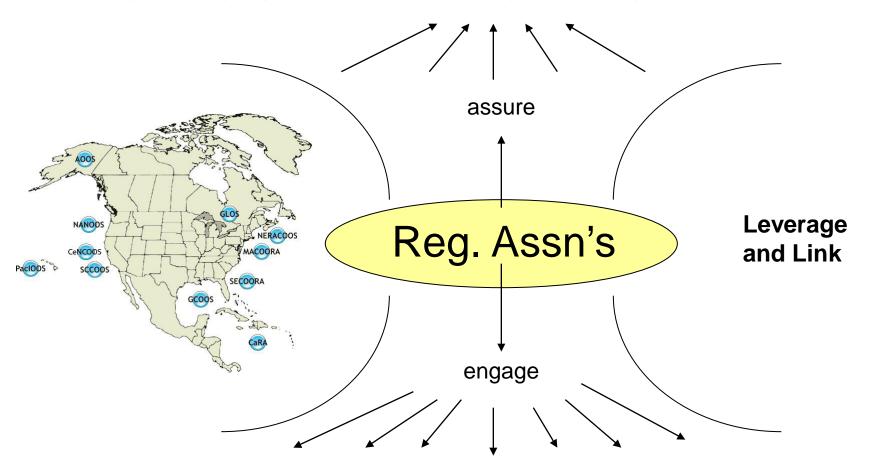








CONSISTENT NATIONAL CABABILITY



DIVERSE LOCAL STAKEHOLDERS

Integrated Coastal & Ocean Observation System Act of 2009

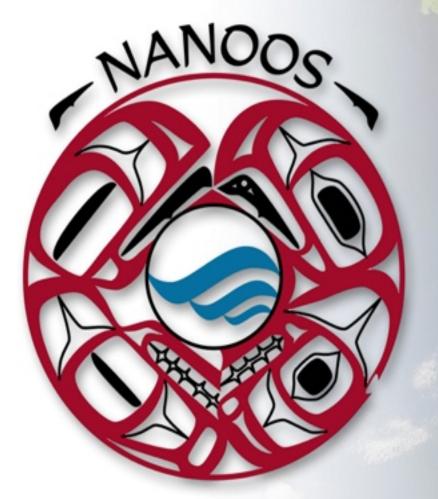
- "In order to fulfill the purposes of this subtitle, the System shall be national in scope and consist of--
- (A) Federal assets to fulfill national and international observation missions and priorities;
- (B) non-Federal assets, including a network of regional information coordination entities identified under subsection (c)(4), to fulfill regional observation missions and priorities;
- (C) data management, communication, and modeling systems for the timely integration and dissemination of data and information products from the System;"



The Regional Associations of IOOS







Northwest Association of Networked Ocean Observing Systems

The Integrated Ocean Observing System (IOOS®)
Regional Association for the Pacific NW





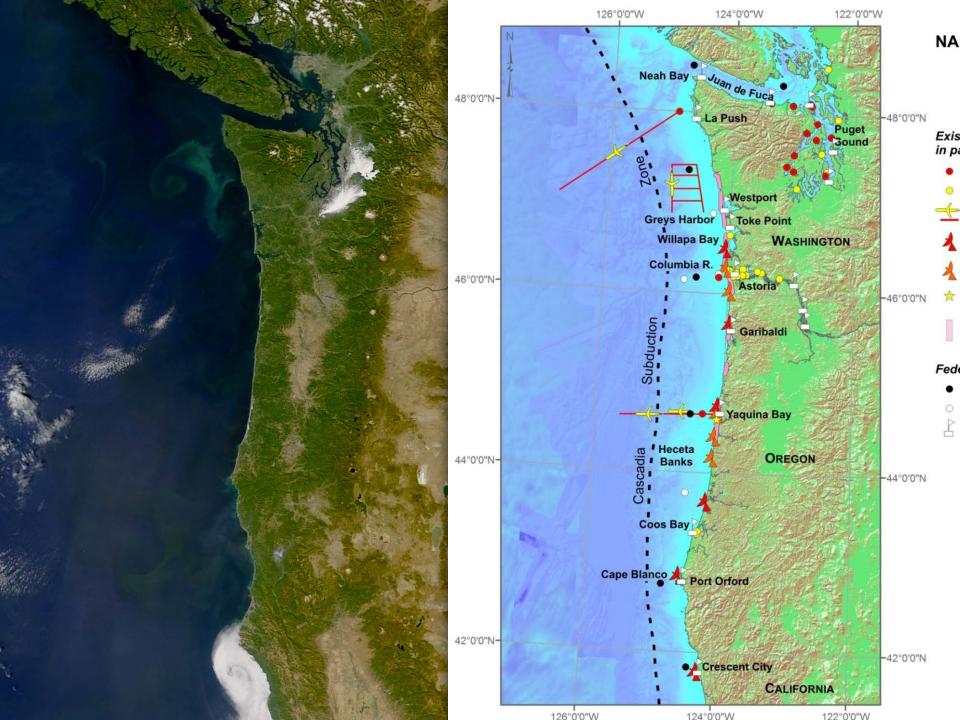
www.nanoos.org www.facebook.com/NANOOS.PNW



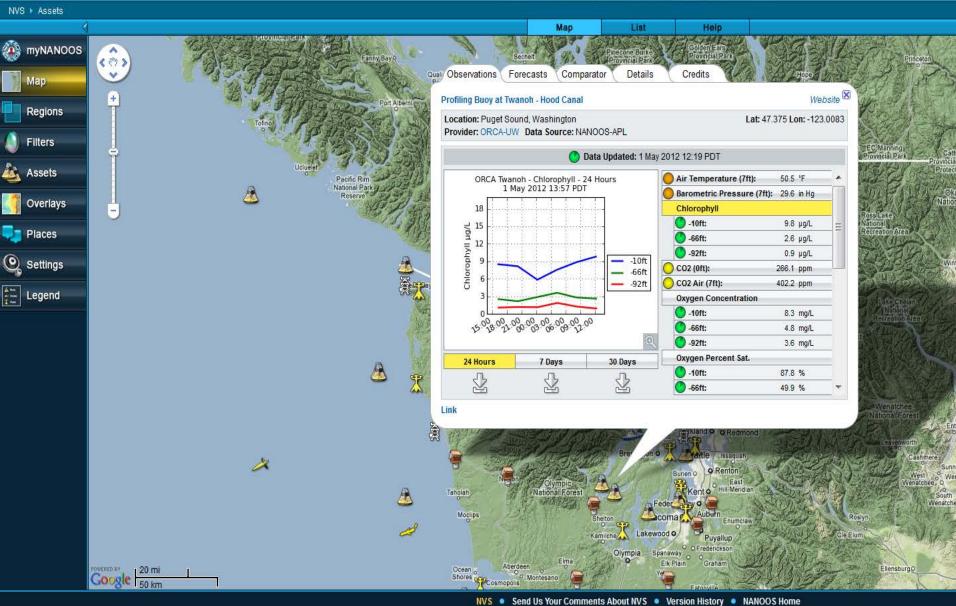


Strategy to develop a PNW Observing System

- Integrate what we have (assets, people, technologies)
 - = federal, state agency, academic, local, tribal, and industry
- 2. Be strategic regarding what we need, based on priorities

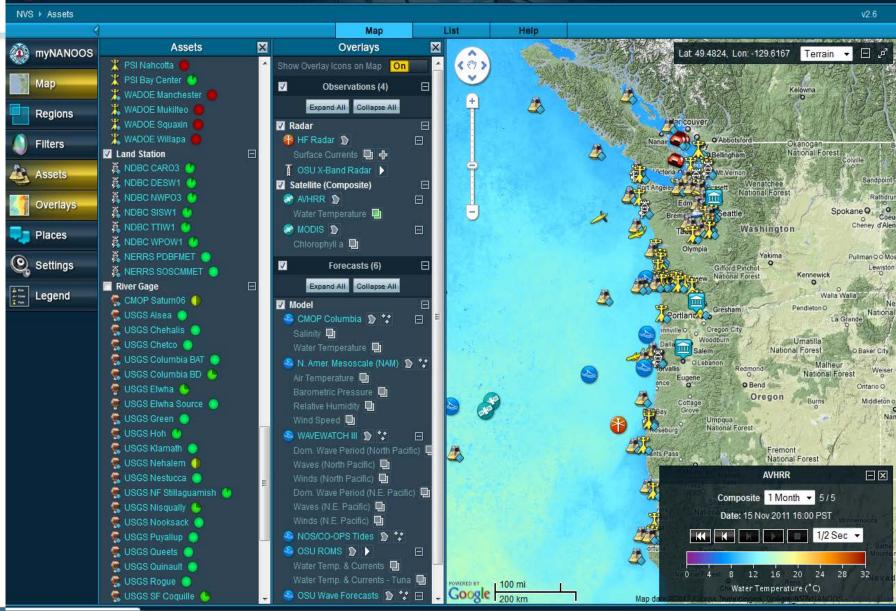








NANDOS VISUALIZATION SYSTEM









"Gulf of Mexico Data Portal"



Welcome to GCOOS Data Portal

This **Data Portal** provides timely information about the environment of the United States portion of the Gulf of Mexico and its estuaries for use by decision-makers, including researchers, government managers, industry, the military, educators, emergency responders, and the general public. Observing stations in the region are monitored constantly. Please visit the GCOOS main web site at http://www.qcoos.org/ for more information on this regional association.

Region's Current Condition

The following is an interactive map to display resources and status of coastal and ocean observing stations. Green markers represent stations in full operation, orange markers are those with defective sensors and red-marked stations are those that are currently not transmitting data. Click on the station to view station details. Not all stations may be visible at the current scale. Zoom-in on an area to reveal all the stations. The HF Radar overlay uses Coastal Observing Research and Development Center (CORDC) published HF RADAR API.clickhere to toggle back to 2D mapping from 3D display.

WHAT's NEW!

 (2011-11-22) A new plot module that can be embedded on any site is now available. Check the
 Download page for more on this.

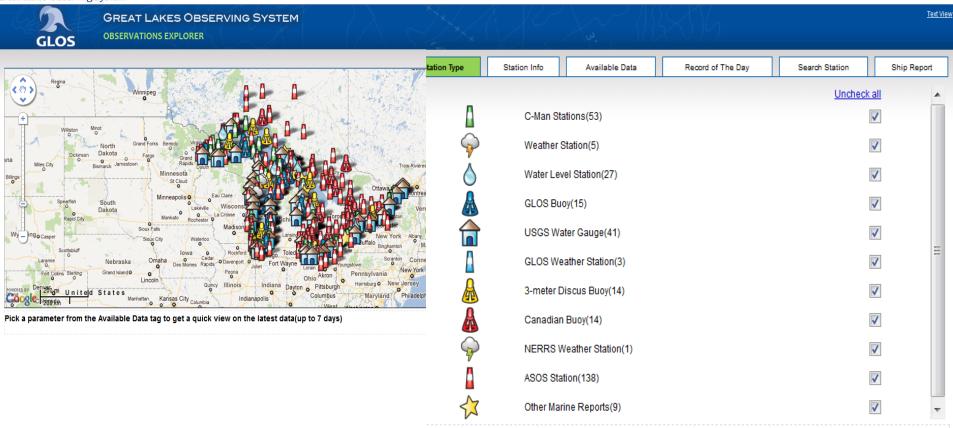
 (2011-11-04) GCOOS data portal is now harvesting data from NERRS stations using their new





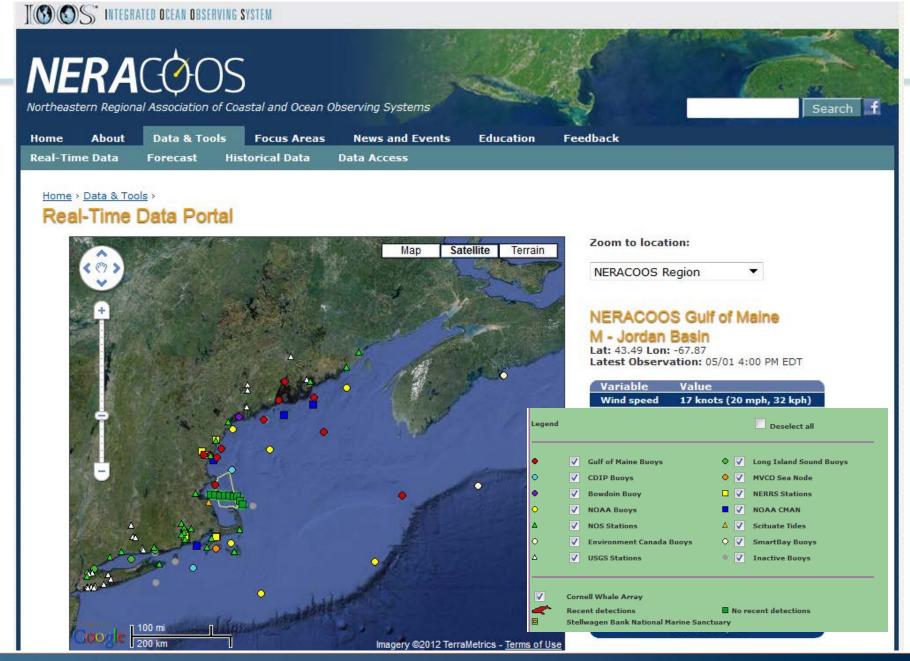


"GLOS Great Lakes Observations Explorer"



Disclaimer: All products published on this website are prototype products and are not intended to be used for navigational or operational purposes. Due to atmospheric or other conditions, latest data may not always be available. View full disclaimer.



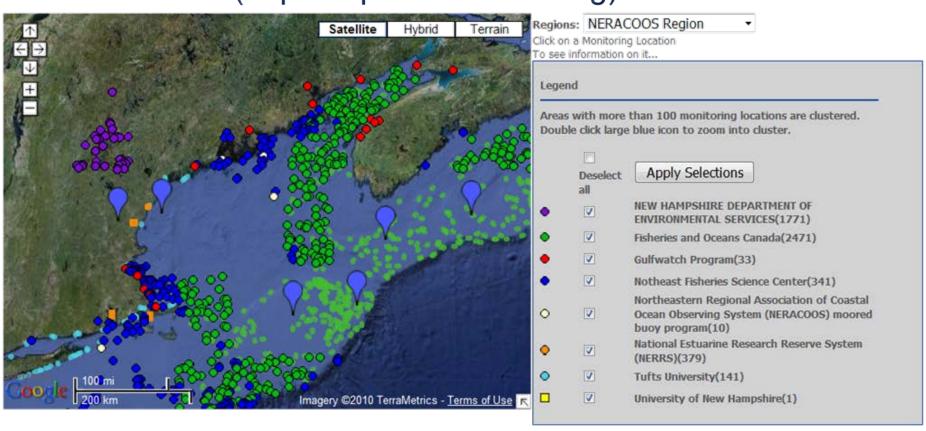






"Northeast Data Management and Portal"

(http://odpdx.neracoos.org)







NeCODP

Northeast Coastal and Ocean Data Partnership











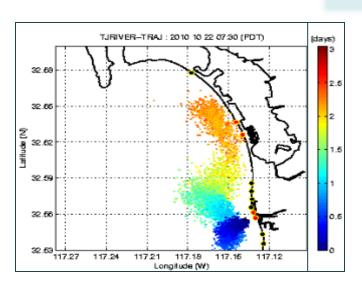


Observations, including support for partners

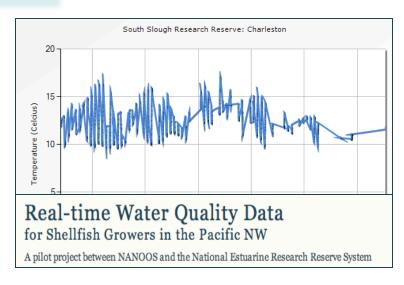
IOOS RA's Involvement in Water Quality



Data Services: Simplifying access to data



Plume Tracking



Customized Products



Take home messages

- IOOS has a federal mandate to integrate coastal ocean observations and data from federal and non-federal sources.
- IOOS and its RAs are critical building blocks of the National Water Quality Monitoring Network.
- IOOS RAs have integrated data access to federal, tribal, state, local, academic, NGO, and private sector monitoring assets and have designed their observing systems based on regional stakeholder input.
- Essential to optimize interoperability.

