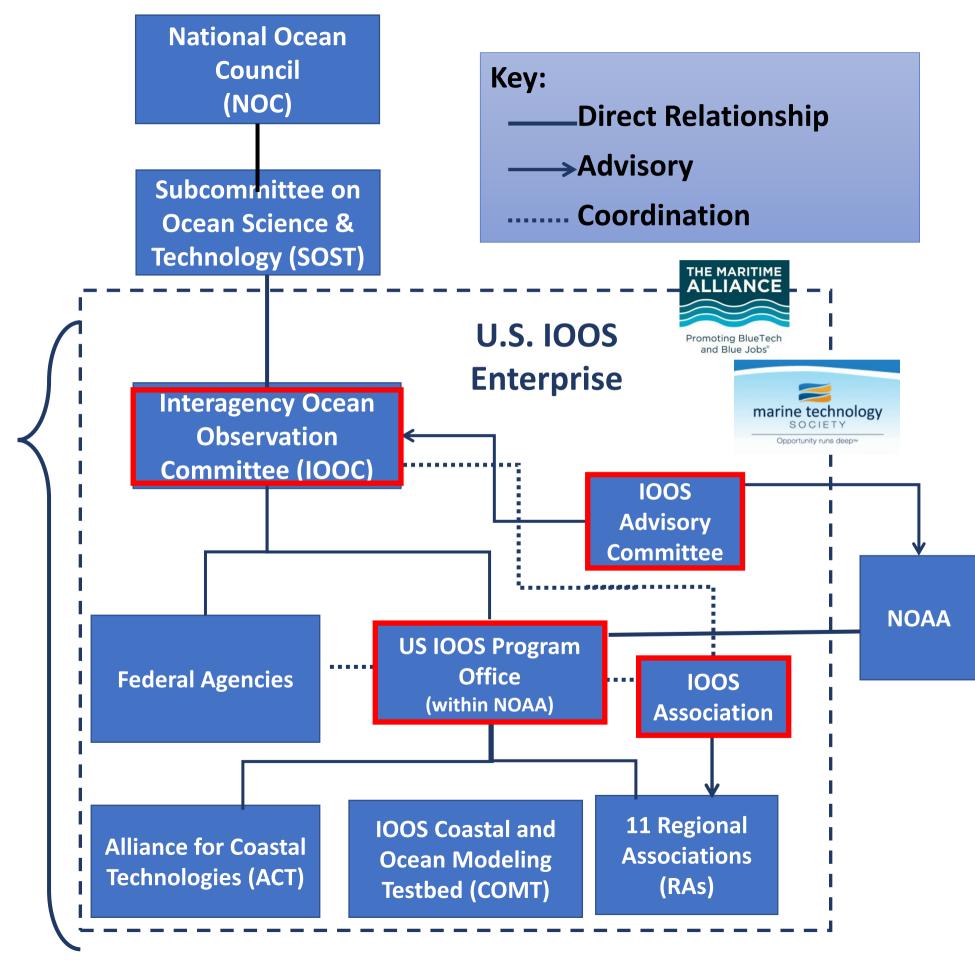




Global Earth
Observation
System of Systems
(GEOSS)

Global Ocean
Observing System
(GOOS)

http://www.ioos.noaa.gov/about/governance/summit 2012/ioos_summit_report.html



Competitive Award & Certification



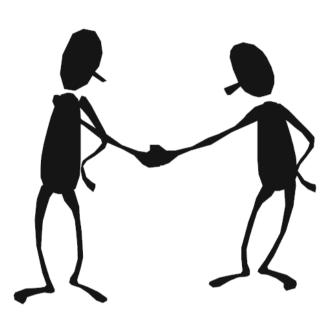


Open for Certification - July 2014

FY2016 RA Federal Funding Opportunity

Timeline:

- NOAA Approval ~January 2015
- Publish Announcement ~January 2015
- Proposal Close date ~July 2015
- Merit Review ~September 2015
- Forward Recommendations ~March 2016
- Make Awards 1 June 2016



IOOS Certification



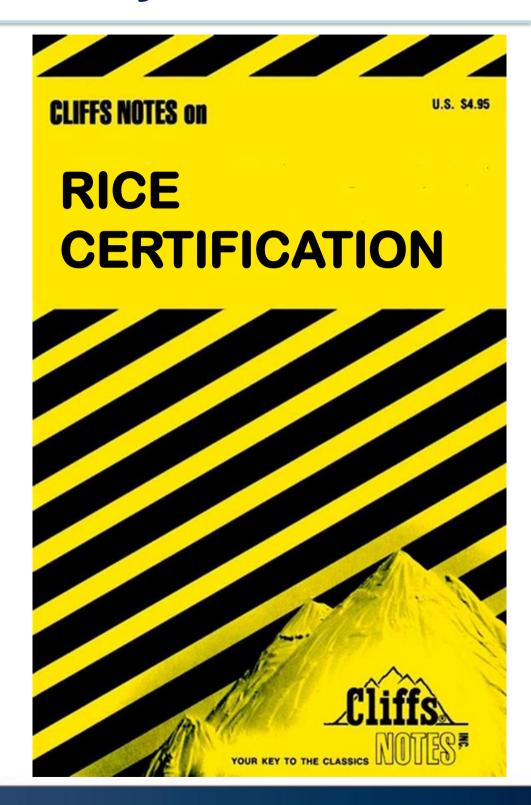
Drivers:

- Certification is a requirement of ICOOS Act
- Provides formal recognition to regional partners
- Extends civil liability coverage for data use
- We believe it is a good thing



Cut to the Chase - Five Key Points

- 1. Establishes minimum criteria for how a RICE operates
- 2. RICE = RA
- 3. Civil liability applies to observation data
- Certification is not connected to funding
- 5. Avoids being prescriptive when possible





Approach

Credible – recognize NOAA's responsibility for ensuring data quality and assumption of liability risk

Reasonable – develop program guidelines in accordance with RA capabilities as supported by Program Office funding

- 1. A stand-alone process
- 2. Take advantage of existing documents & resources
- 3. Applicants will have to create some new documents



US IOOS Program Office: DMAC Focus



Technical solutions



Implementation across the enterprise



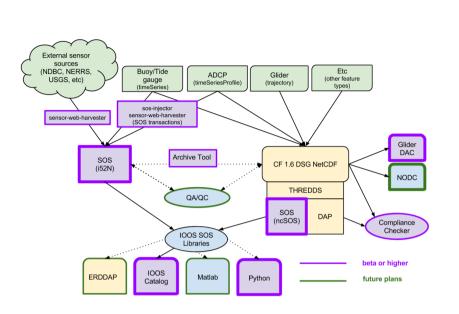
Technology

Process

<u>People</u>



DMAC What's New

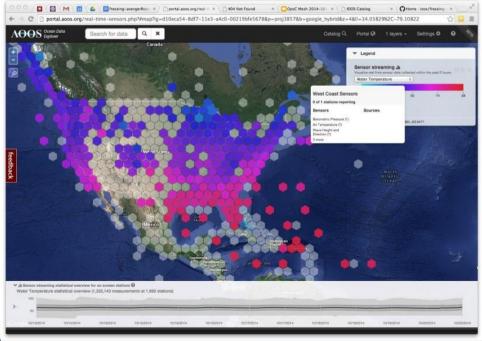


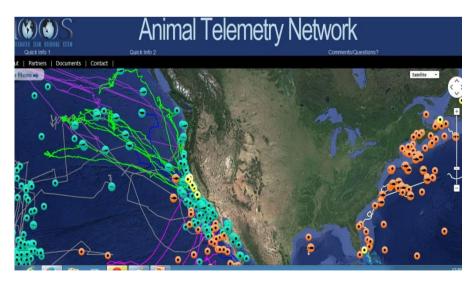




http://catalog.ioos.us
http://www.ioos.noaa.gov/catalog









Improving Access to Federal Biological Data

Collect

Publish/Preserve

Access Products





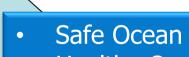
Best Practices / Data Standards

- Metadata
- **Terminology**
- Web Services
- Tools





- presence
- absence
- abundance



- Safe Ocean Operations
- **Healthy Oceans**
- Sustainable Use
- **Hazard Protection**
- **Economic Support**



- **Federal**
- Academic
- State
- NGO

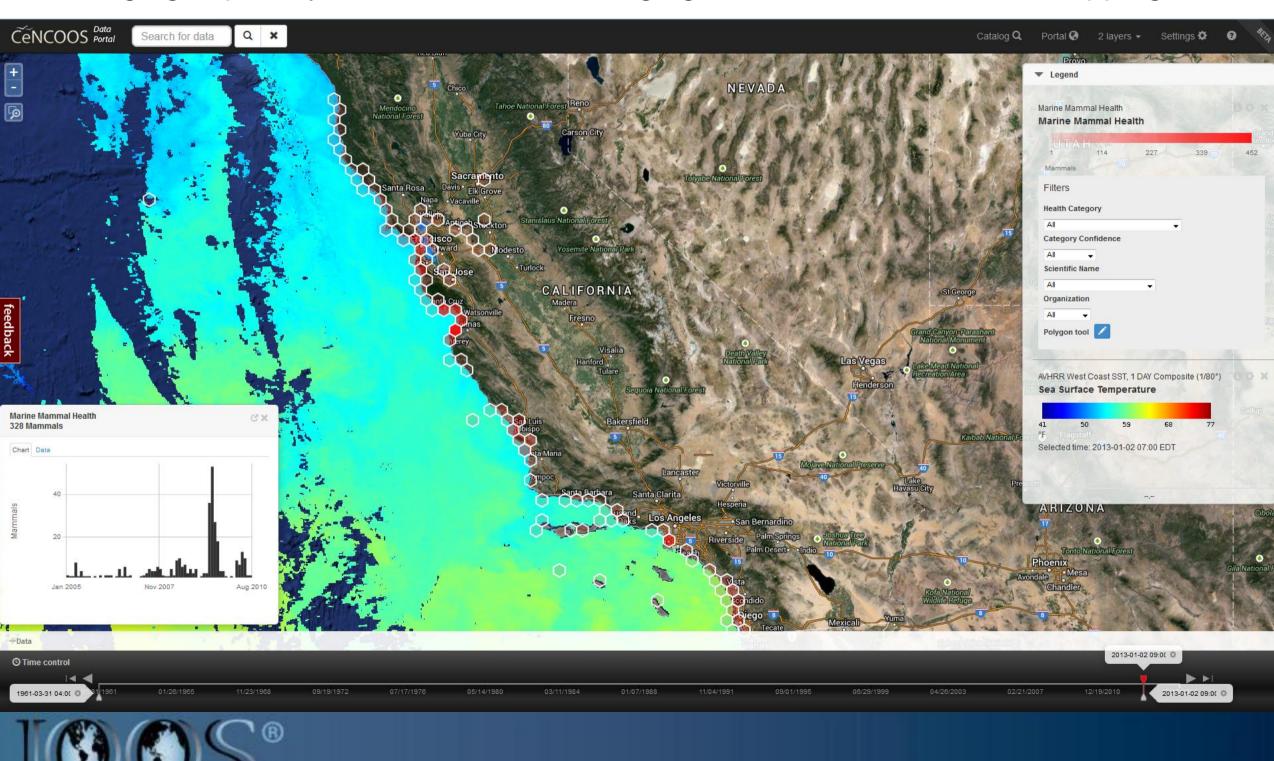




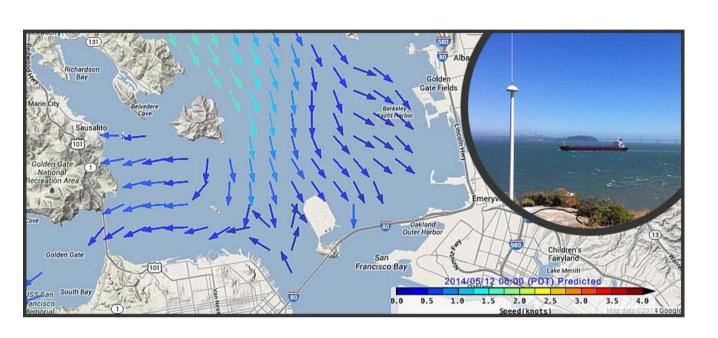


Biological and Physical Data Integration

Emerging capability: Beta version of emerging marine mammal health mapping tool

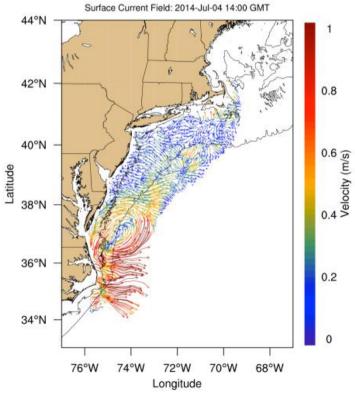


HF Radar Updates











Glider - New

- Glider DAC 2.0
- Glider DAC review
- IOOC Glider Task Team
- Deployments:
 - Gliderpalooza 2014
 - NOAA/AOML Sandy Supplemental
 - NOAA/IOOS GCOOS glider Hypoxia
 - NOAA Gliders pacific equatorial
 - And many others



Toward a U.S. IOOS® Underwater Glider Network Plan:

Part of a comprehensive subsurface observing system

August 2014

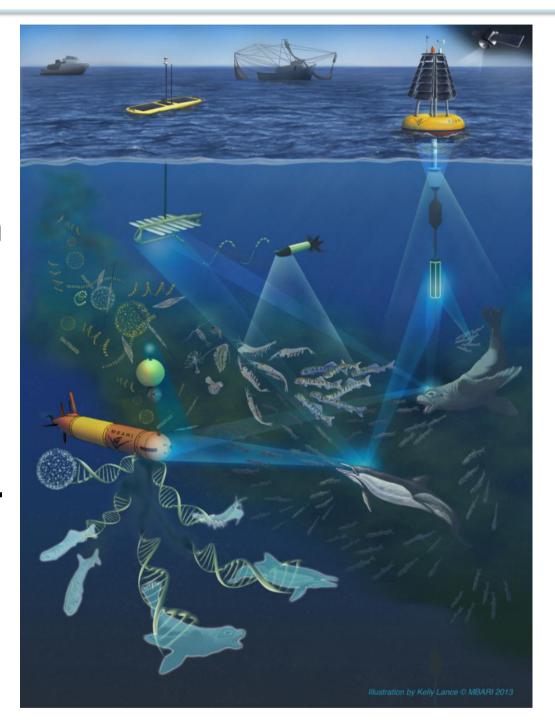


Glider tracks along the U.S. coast since 2002.



Marine Biodiversity

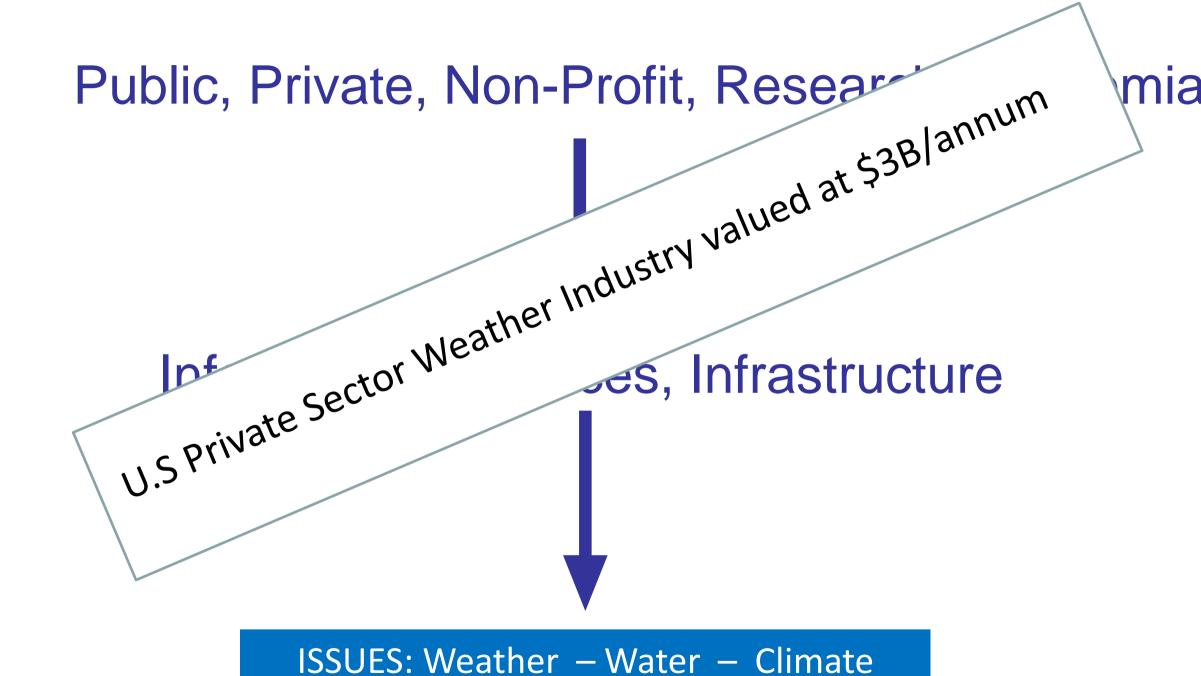
- 3 Mbon projects to show how marine and coastal data could be integrated into the system
- This U.S. regional contribution to GEO BON is focused in in four geographic areas: the Florida Keys, Monterey Bay, Channel Islands, and the U.S. Chukchi Sea continental shelf.
- http://www.ioos.noaa.gov/biod iversity/welcome.html



Credit: MBARI



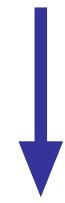
Is there an Ocean Enterprise?





The Ocean Enterprise

Public, Private, Non-Profit, Research, Academia



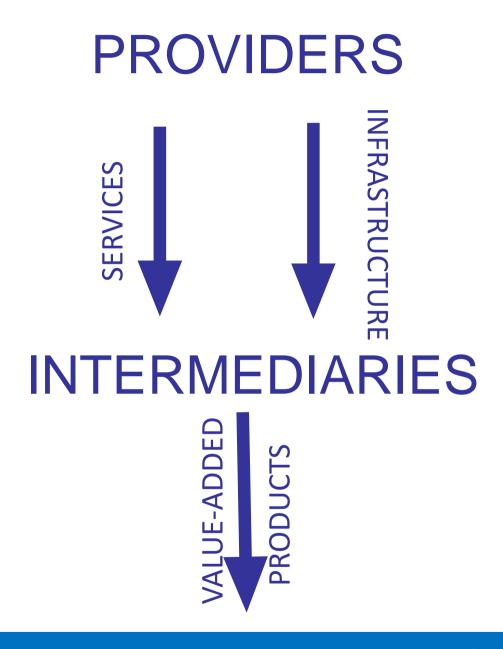
Information, Services, Infrastructure



ISSUES: Oceans – Ecosystems – Climate



The Ocean Enterprise – Private Sector



ISSUES: Oceans – Ecosystems – Climate



National Oceanic and Atmosphere Administration

Ocean Enterprise Study of U.S. Businesses

>600 private sector firms

Most companies < 10 employees

83% providers;9% intermediaries

Input Needed: http://www.usworks.com/usioos/

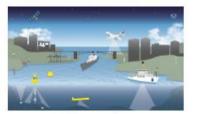


The Ocean Enterprise:

A study of US business activity in ocean measurement, observation and forecasting

http://www.usworks.com/usioos/

Year One Report



Prepared by

ERISS Corporation

The Maritime Alliance

November 10, 2014

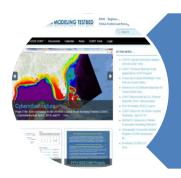




Marine Sensor Innovation



Sensor Evaluation



Coastal Modeling Test bed



Ocean Technology Transfer



Ocean Technology Transfer – FY13

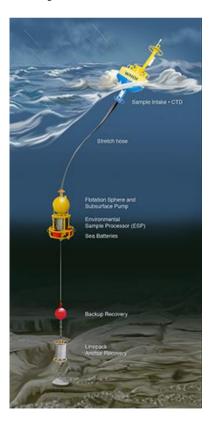
West Coast Ocean Acidification

Alutiiq Pride Shellfish Hatchery
Geward, AK

Taylor Shellfish Farms
Shelton, WA
Whiskey Creek Shellfish Hatchery
Tillamook, OR
Hog Island Oyster Company
Tomales Bay, CA

Carlsbad Aquafarm

- Predicting Harmful Algal Blooms
- Accomplishments
 - Expanded Gulf of Maine ESPs
 - Enhanced Reaction & Filter Puck
 - Model Integration
 - Data Delivery thru NERACOOS



Ocean Technology Transfer FY14

- NERACOOS;Satlantic: Transitioning State-of-the-Art Nutrient Sensing.
- NANOOS, UW, NOAA/NMFS/NWFSC; Spyglass: Operational Ecological Forecasting of Harmful Algal Blooms in the Pacific Northwest using an Environmental Sample Processor.
- CeNCOOS, UCSB; McLain & Axiom: Integration of the Imaging Flow CytoBot into a 40-year Time Series for San Francisco Bay
- AOOS, UAF; Pacific Gyre: Real-Time Sensor System for Detecting Freeze-up on Arctic Shelves
- NANOOS, AOOS, CeNCOOS, SCCOOS, PacIOOS, NOAA/PMEL;
 Sunburst Sensors: Improving an Ocean Acidification
 Observation System in Support of Pacific Coast Shellfish
 Growers continuation of FY13 project



Key Events



Launch of Institute for
Community Resiliency and
Climate adaptation University
of Connecticut Avery Point

Hill Events (2)
Hearing to Focus on New Ocean
Technologies May 21, 2014



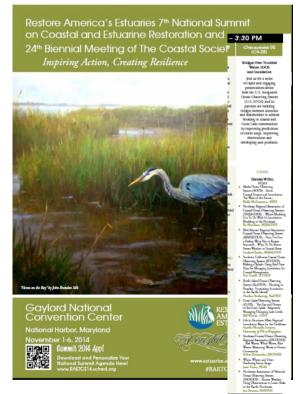


GEO Unanimously Endorsed for Another 10 Years





Northeastern Seaboard Workshop



IOOS IGNITE



Communications

Web Site: www.noaa.ioos.gov



https://www.facebook.com/usioosgov



@usioosgov – New this Year

USGEO exhibit storymap:

http://www.ioos.noaa.gov/understanding_eart

h/index.html



Video – 2 Videos



Press Release:

- Pacific Portal
- MBON
- MARES
- HF Radar into PORTS



US IOOS at Work

Enables decision making Fosters Advances in Science and Technology

www.noaa.ioos.gov



https://www.facebook.com/usioosgov



@usioosgov