



Department of Commerce

- Bureau of the Census
- U.S. Patent and Trademark
 Office
- Bureau of Economic Analysis
- Bureau of Industry and Security
- Committee for the Implementation of Textile Agreements
- Economic Development Administration
- Economics and Statistics Administration
- International Trade Administration

Minority BusinessDevelopment Agency



- National Institute of Standards and Technology
- National Oceanic and Atmospheric Administration
- National Technical Information Service
- National Telecommunications and Information Administration



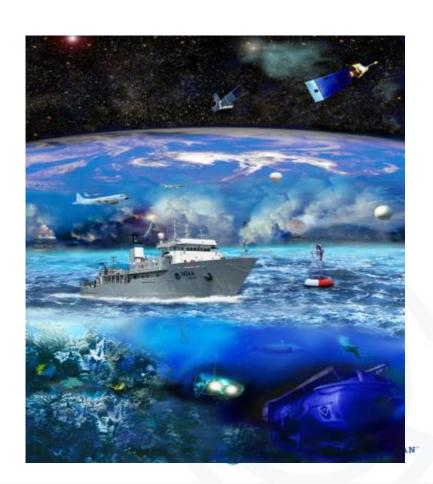
NOAA: Making Science Matter

Environmental Intelligence (actionable information)

Observations → Monitoring → Assessment → Modeling → Tools & Services

NOAA's long-term goals

- Climate Adaptation and Mitigation
- 2. Weather-Ready Nation
- 3. Healthy Oceans
- 4. Resilient Coastal
 Communities and
 Economies









From National to Global































Observing System

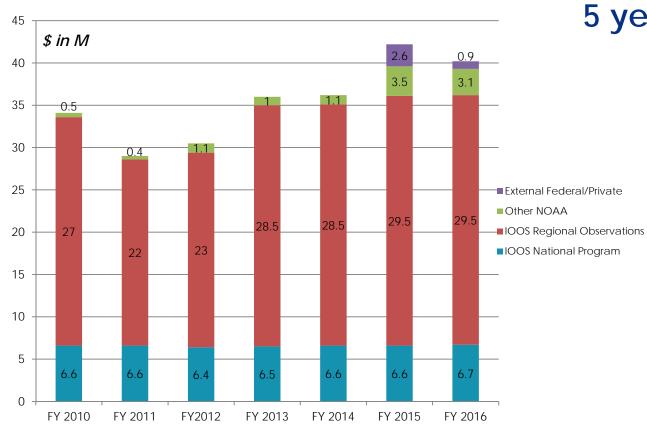






Programmatic - 2016

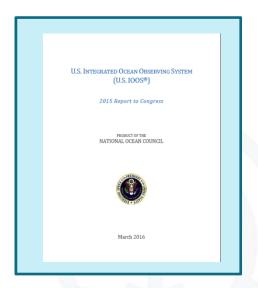
Budget History FY10-FY16







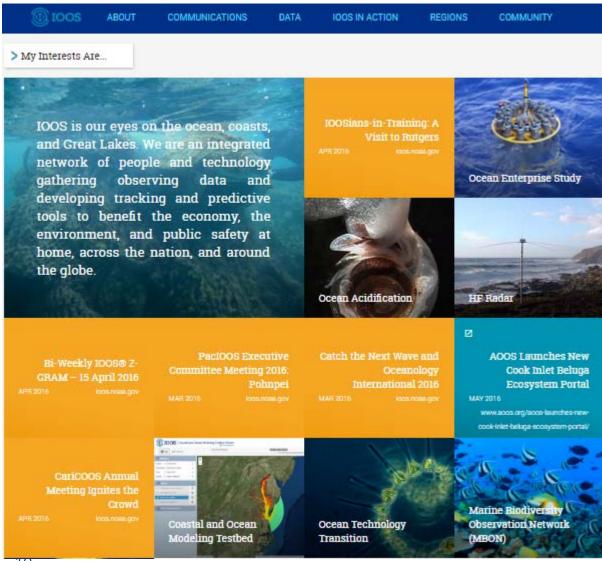






Communications & IOOS new website





Getting our Story OutNew outlets:

- NOAA.GOV: New! Web stories 200-400 words in length, always with photos.
- Social Media: Regular posts create visibility with peers, partners, general public.
- IOOS Blog: Coming soon! Highlight projects, RA successes, events, topics, and more.



10

IOOS Regions

100s

DATA

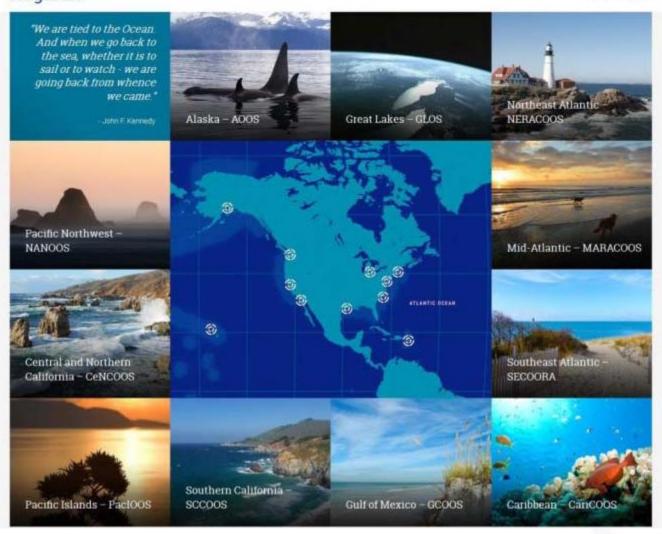
UT COMMUNICATIONS

IDOS IN ACTION

REGIONS

COMMUNITY

Regions Hoose / Regions





U.S IOOS By The Numbers















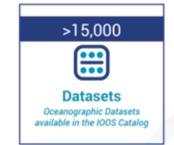


















Advancing NOAA Partnerships (All LOs)

Weather Ready Nation (NWS)

Modeling, Data, R&D (with WFOs, NDBC, NCEP) **Healthy Ocean (NMFS)**



Ecosystems Based Mgmt/Marine Biodiversity

Resilient Coastal Communities and Economies (NOS)

Office of Coast Survey, Center for Operational Oceanographic Products and Services, National Geodetic Survey, National Centers for Coastal Ocean Science, Office of Response and Restoration, Office for Coastal Management, Office of National Marine Sanctuaries, & IOOS

Climate Adaptation and Mitigation (OAR)

Climate Program Office Ocean Acidification Program Ocean Exploration and Research

NESDIS

Archive - National Centers for Environmental Information, Satellite Applications and Research

OMAO

13 Fleet, AUVs, Operations



Interagency Accomplishments - Examples

IOOC Task Teams

- Animal Telemetry Network
- Gliders
- Modeling
- Post-Summit Task Team (C)
- Biological integration and Observation (C)



Interagency Projects

- 2015 Multi-Sensor Improved Sea-Surface Temperature (NASA, NOAA)
- 2014-17- Marine Mammal Health MAP (MMC, NOAA, ONR)
- 2016-18 Marine Biodiversity Observation Network (NASA, BOEM, USGS, NOAA)
- 2014-15 Northeast Pacific Anomalies Workshop
 (NASA, NSF, NOAA)

Animal Telemetry Network (ATN) FY16 Outlook

<u>ATN Vision:</u> will provide <u>integrated data</u> on aquatic ecosystems from species to environment. This network will <u>complement</u> existing ocean observing assets and will <u>inform</u> ecosystem-based management, fisheries and biodiversity, marine spatial planning, ocean modeling and forecasting, and National Ocean Policy priority objectives.



FY16 focus:

Data Assembly Center Governance (NC & SG)

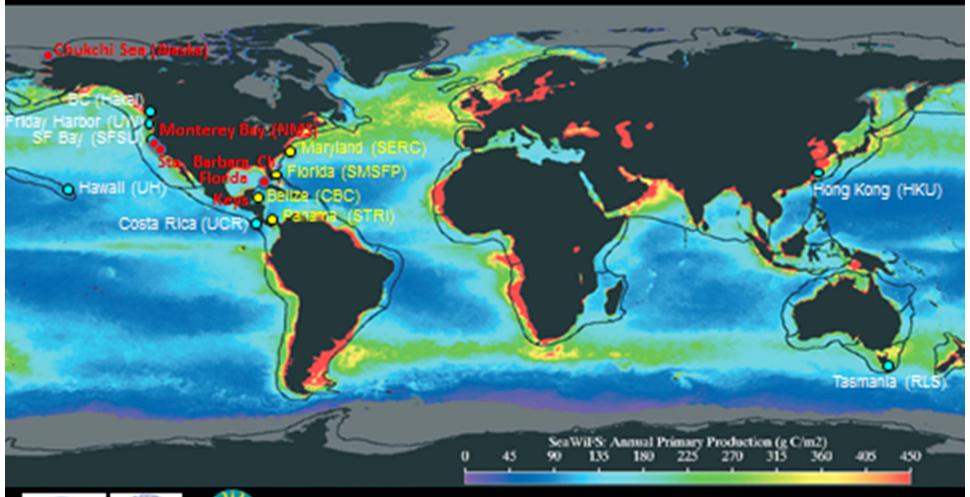
Input:

Regional engagement Communications/outreach planning

http://oceanview.pfeg.noaa.gov/ATN/ Elephant seal Copy URL for CTD data feed ng: User selected species crossing region between 1-Jan-2014 and 8-Feb

BUREAU OF OCEAN ENERGY MANAGEMENT

Current MBON Collaborations



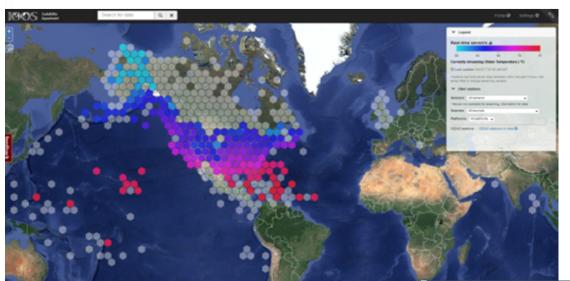






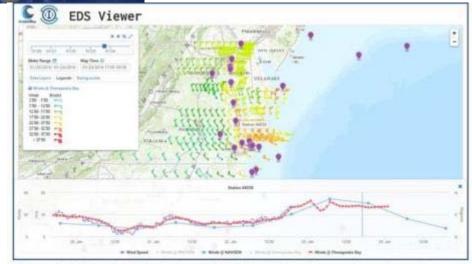


Data Mgmt: DMAC – Environmental Sensors & Models



- 2 week cache of ALL known, available real-time observations
- AOOS & Axiom
- ❖ Release June 2016

- THREDDS, WMS access to all model output
- ASA for Coast Guard / IOOS
- Pre Release now



Blizzard 2016: CBOFS winds at 1/23 17:00 EST. Time-series of model output and buoy observations (1/20 - 1/23)



Innovation & DMAC - Keep on Advancing

ioos.us Project

Outcomes:

- Single landing page/entry point for DMAC access.
- Full Capacity in June
- New Glider DAC



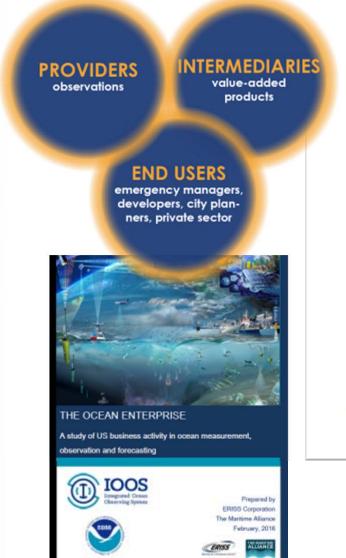


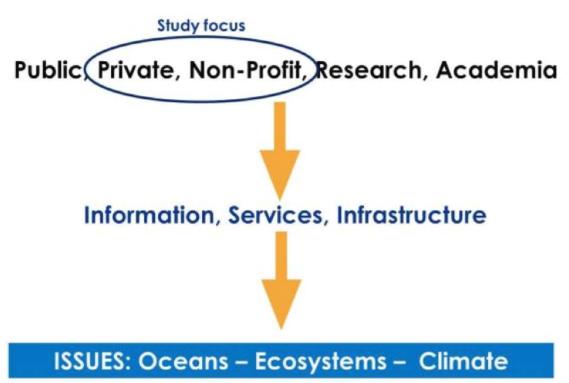


New/Updated Manuals 2015
Dissolved Nutrients Observations
Ocean Optics Data
In-situ Temp. and Salinity Data
In-Situ Current Observations
In-Situ Surface Wave Data
Dissolved Oxygen Observations
New/Updated Manuals - 2016
Glider
HFR Currents
Water Level

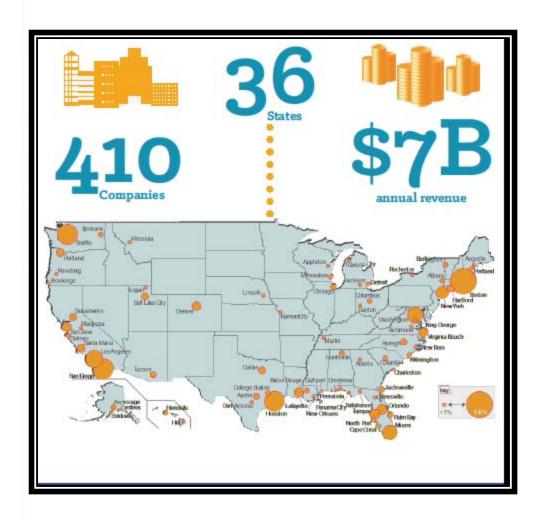


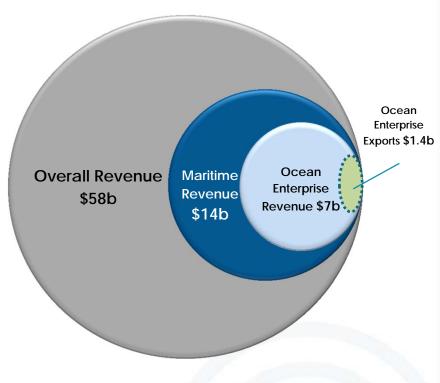
Ocean Enterprise Study Background





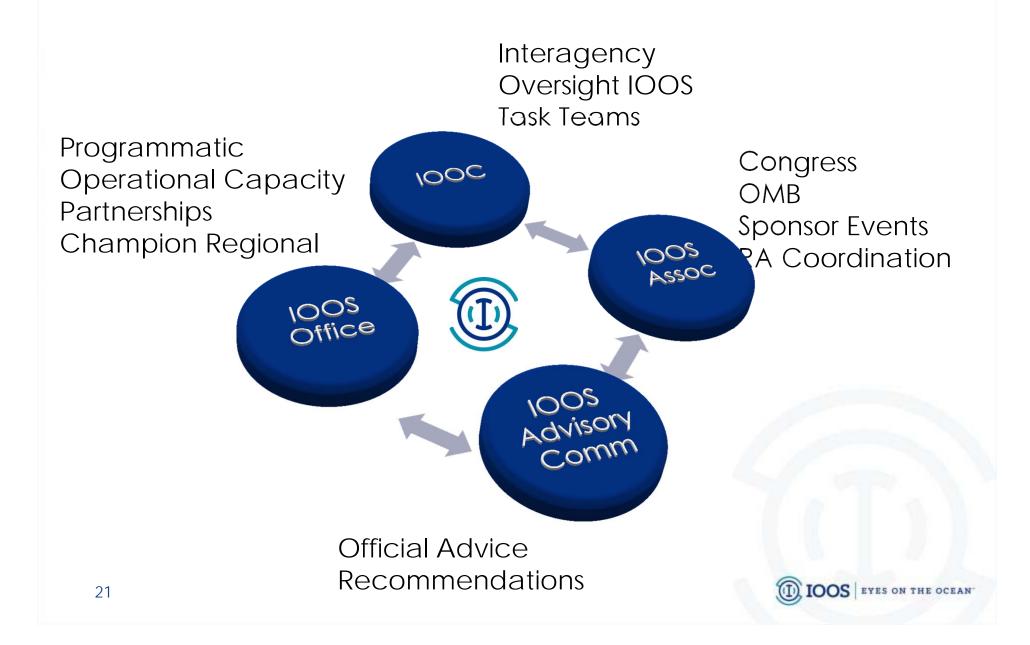
US IOOS/NOAA Ocean Enterprise Study







IOOS is a Team Sport



MAY 2016 Staffing and Leadership Update

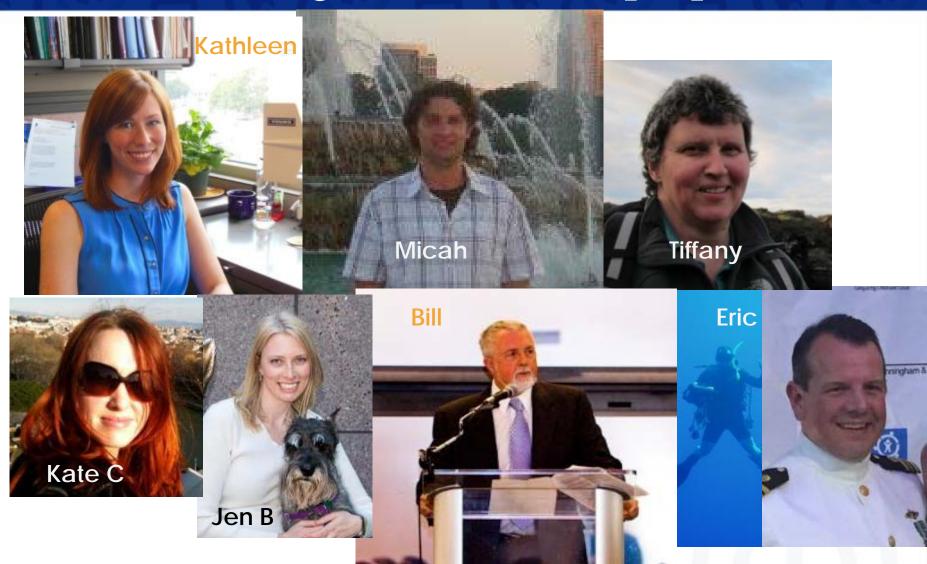
- George Jungbluth & Derrick Snowden as Division Chiefs for over a year
- Promoted Kathleen Bailey as Oceanographer

NEW since 2015

- Kate Culpepper: Communications Specialist
- LCDR Eric Johnson: NOAA Corps in Ops Division
- Jennifer Bosch: Ops Division
- Micah Wengren: New 'data scientist' starts May 2016
- Tiffany Vance: New 'data scientist' starts June 2016
- Bill Woodward: Animal Telemetry Network Coordinator
- 1 Vacancy open Grants / Contracts business support



MAY 2016 Staffing and Leadership Update





https://noaa.ioos.gov

https://www.facebook.com/usioosgov

@usioosgov



Market Sectors

Represents 'overall' activities of firms

Shows provider, intermediary split

```
65% (provider/intermediary = 65%/42%)
                                         environmental monitoring
                                       academic research
 61% (provider/intermediary = 61%/37%)
 52% (50%/42%)
                                 oil & gas
 41% (39%/31%)
                          ports & harbors
 36% (35%/27%)
                       hydrographic surveying
                       engineering
 35% (27%/37%)
                      coastal protection
 34% (28%/35%)
 31% (50%/42%)
                    defense
                    weather & ocean forecasting
 30% (32%/17%)
 27% (27%/33%)
                  water & water quality
                 renewable energy
 26% (25%/23%)
 25% (21%/33%) fishing industry
 24% (23%/19%) maritime security
 19% (17%/19%) construction surveying
 15% (13%/17%) cargo shipping
 9% (8%/10%) cruise or passenger ships
  3% (2%/4%) biotechnology
0%
    10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
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U.S IOOS Overview

Stakeholder driven; Scientifically based; Policy neutral

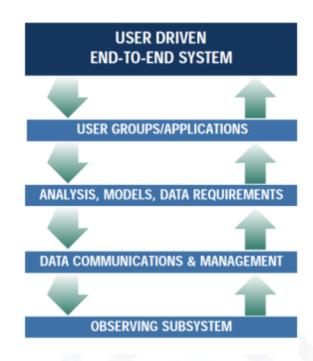
Coastal Component

- 17 Federal agencies
- 13 regional partners
- Academia & Industry

Global Component

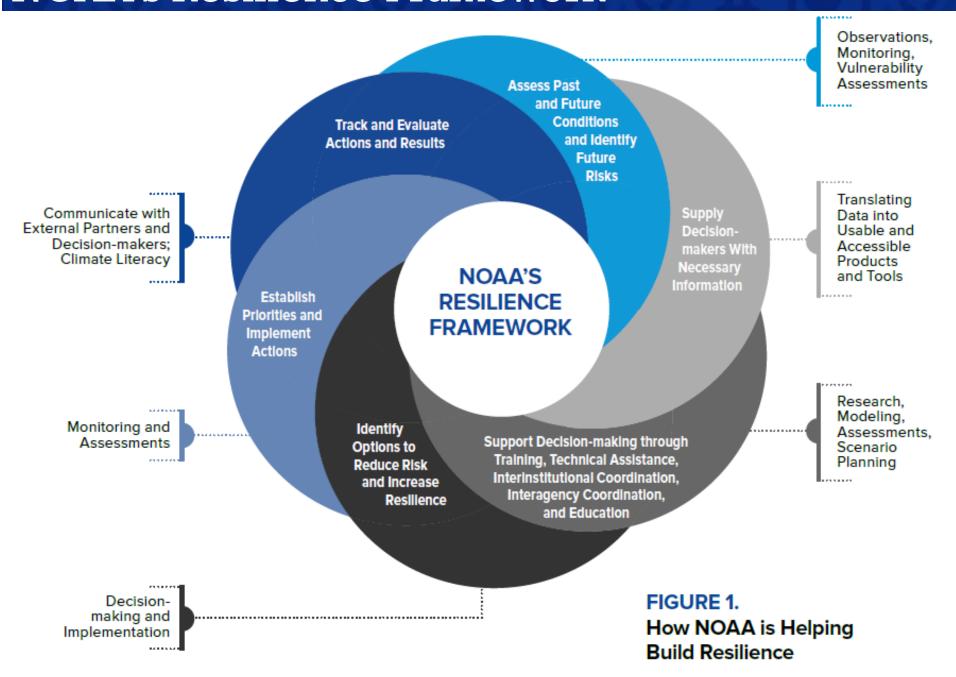
- US contribution to GOOS
- Global Climate Ocean
 Observing System 64%
 completed



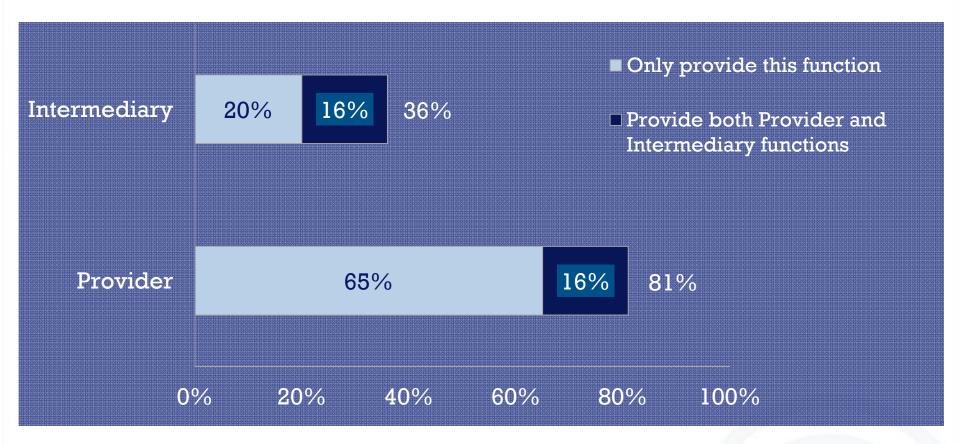




NOAA's Resilience Framework



Ocean Enterprise Study 2015: Functions



81 % of the companies we surveyed were providers 36% were Intermediaries

