

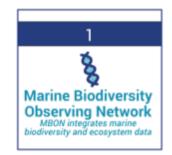
## U.S IOOS By The Numbers















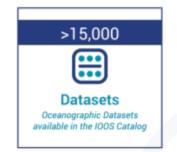












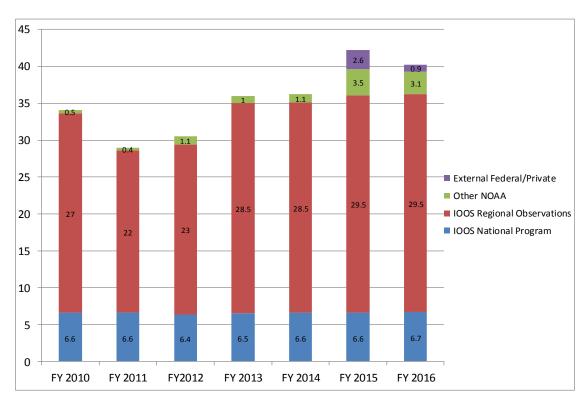




## Programmatic - 2016

#### **Budget History FY10-FY16**

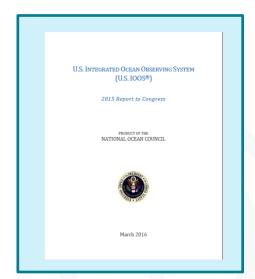
\$ in M



5 year Awards



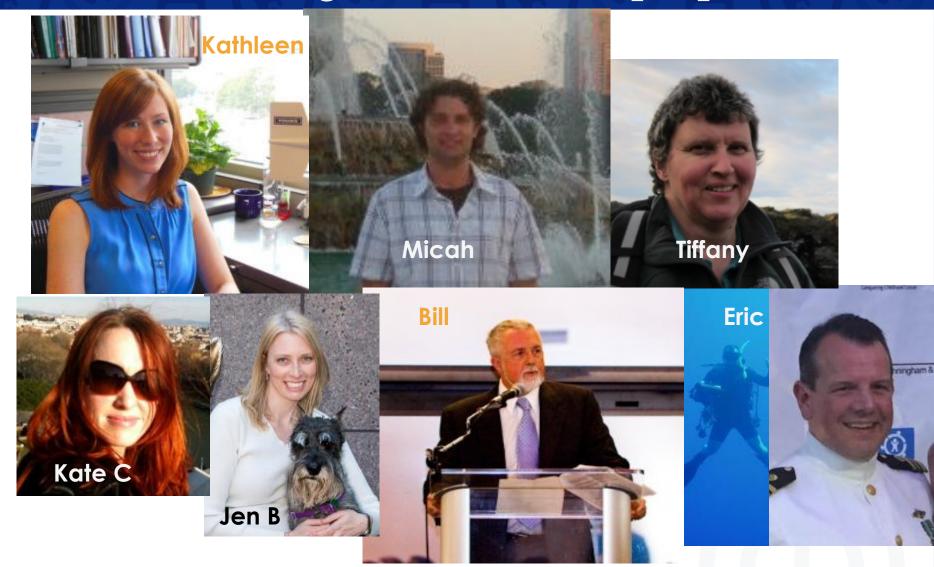




**Administration Transition** 



# MAY 2016 Staffing and Leadership Update



## DMAC - Keep on Advancing

#### ioos.us Project

#### Outcomes:

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



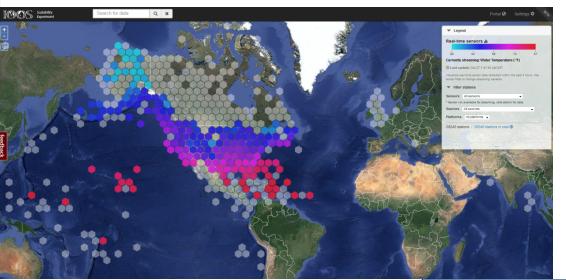




New/Updated Manuals 2015
Dissolved Nutrients Observations
Ocean Optics Data
In-situ Temp. and Salinity Data
In-Situ Current Observations
In-Situ Surface Wave Data
Dissolved Oxygen Observations
New/Updated Manuals - 2016
Glider
HFR Currents
Water Level



#### DMAC - Environmental Sensors & Model Access





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

- THREDDS, WMS access to all model output
- \* ASA
- ❖ Released 16 May 2016



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



#### HF Radar FY16 Outlook

- Refinement of O&M costs
- At your local WFO
- Significant Wave Height
- Tsunami detection partner with NWS
- Global HF Radar GEO/GOOS
- BOEM: CODAR understand offshore wind turbines impact to HFR
- Archiving continues every month





## U.S. Marine Biodiversity Observation Network

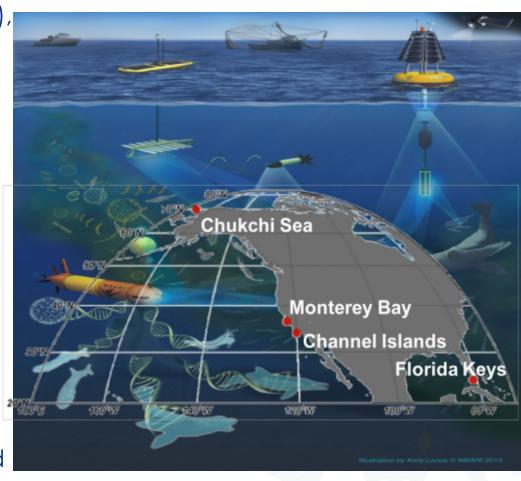
#### Interagency support:

 \$15M: NASA, NOAA (IOOS & OER), BOEM – FY14-18

- In-kind from USGS on DMAC, ecological mapping units
- MarineGEO/Tennenbaum is an MBON partner

#### MBON goals:

- Increase efficiencies and fill gaps in biodiversity monitoring
- Integrate biological and environmental observations
- Integrate remote sensing with in situ
- Develop methods for automated sampling of marine biodiversity
- Lead global development of marine biodiversity indicators and variables
- Develop a U.S. MBON
- Advance global MBON



Credit: MBARI



# **IOOS New Logo**



- Collaborative effort: IOOS Office, Interagency Ocean Observation Committee (IOOC), Regional Associations,
- Streamlined, integrated design reflects IOOS's renewed focus on the user experience.
- Light and dark blue stand for the coasts and deep water.
- Integration represents a signal moving out in stages—local-national-global.
- There's **more to discover** every time you see it—just like there is with IOOS.
- ICCS
  Integrated Ocean
  Observing System

## Communicating

#### **New Web Site**

- Dynamic, Interactive; Streamlined
  - May 2016



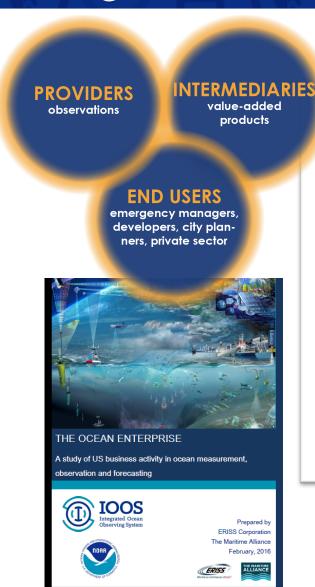
#### **Getting our Story Out**

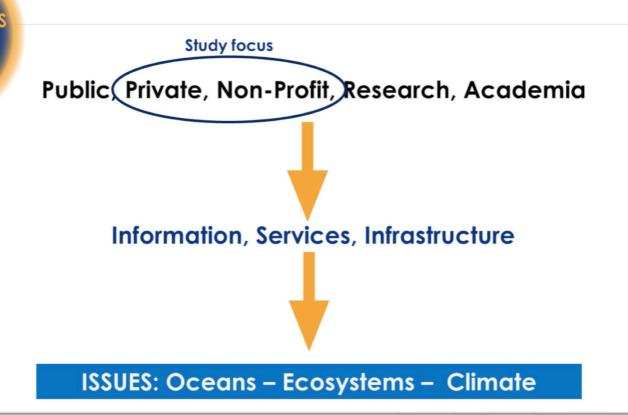
#### New outlets:

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

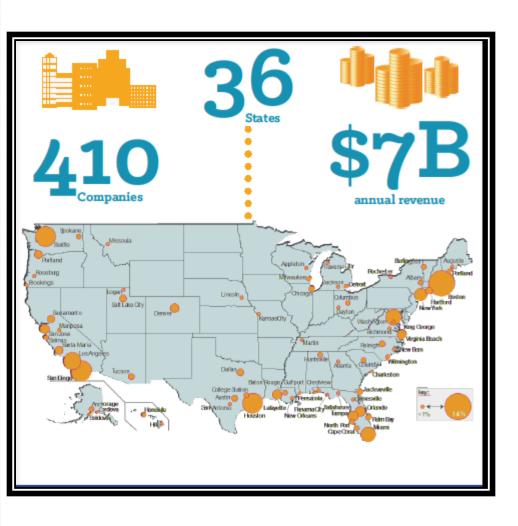


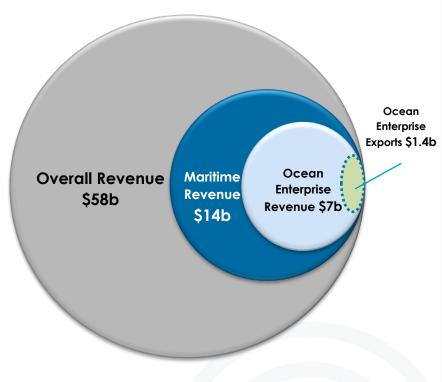
## Background





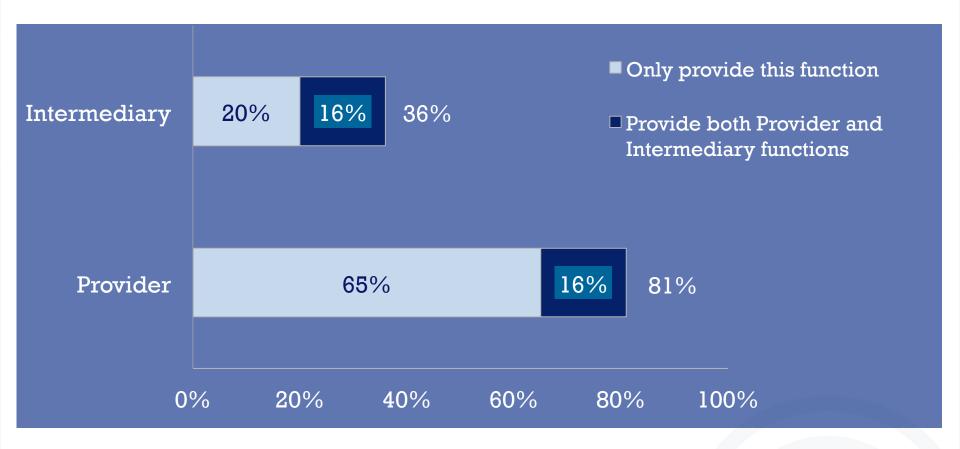
## US IOOS/NOAA Ocean Enterprise Study







# Ocean Enterprise Study 2015: Functions



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



#### **Market Sectors**

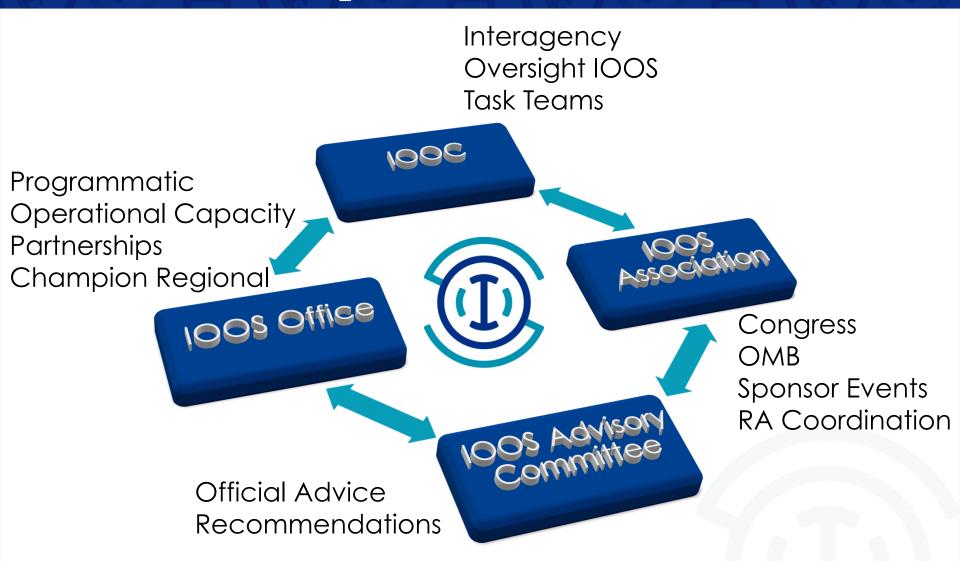
Represents 'overall' activities of firms

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
                        hydrographic surveying
 36% (35%/27%)
                       engineering
 35% (27%/37%)
 34% (28%/35%)
                       coastal protection
 31% (50%/42%)
                    defense
 30% (32%/17%)
                    weather & ocean forecasting
 27% (27%/33%)
                  water & water quality
 26% (25%/23%)
                 renewable energy
 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
     10% 20% 30% 40% 50% 60% 70%
0%
                                              80% 90% 100%
```



# **IOOS** is a Team Sport





#### Questions

Enables decision making
Fosters Advances in Science and Technology

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