IOOS ASSOCIATION

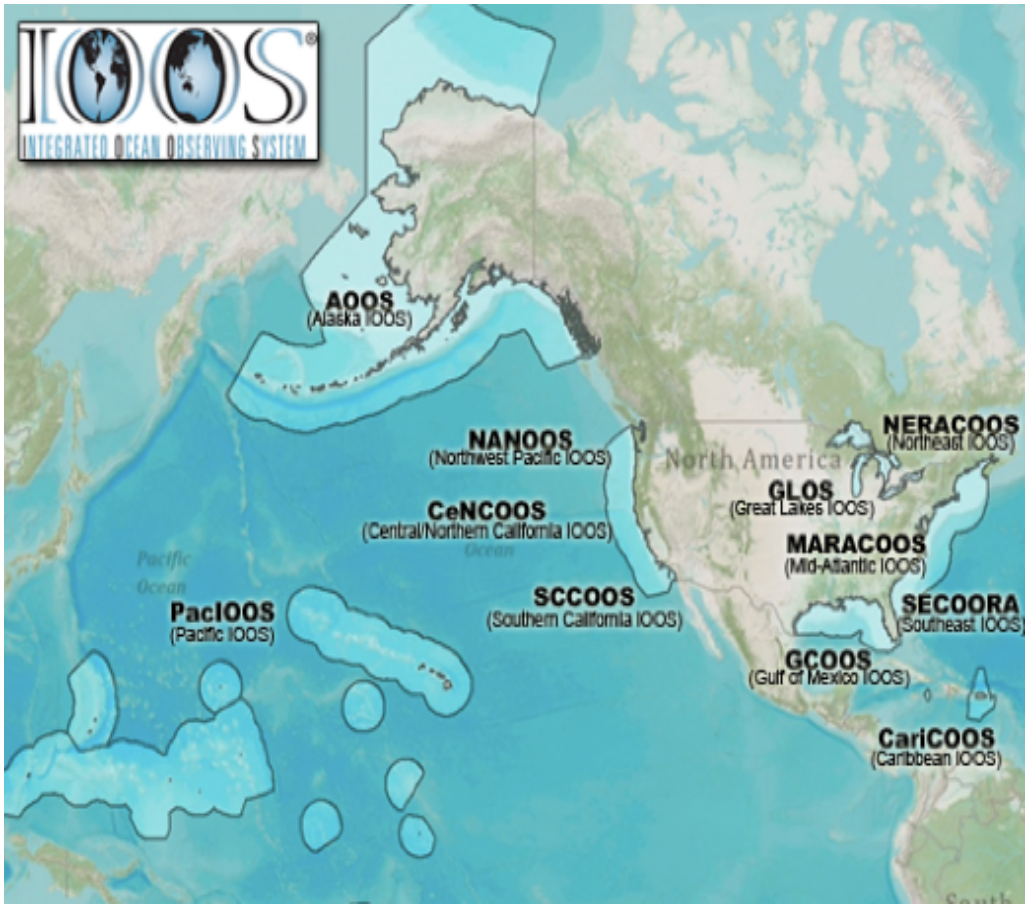
Josie Quintrell, Director
IOOS Association
AOOS Meeting
October 2016

IOOS | EYES ON THE OCEAN™

IOOS Association

Observing our oceans, coasts and Great Lakes

Providing information to those who need it, when they need it



- Objectives:
  - Advocacy
  - Common Issues
  - IOOS federal/non-federal partnership
    - Administration
    - Congress
    - National Partners
  - Emerging Issues

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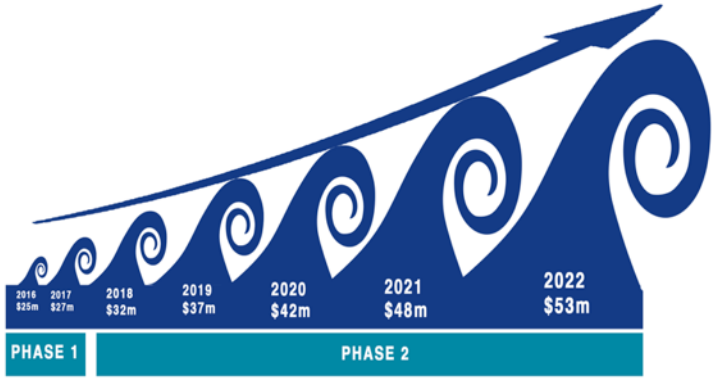
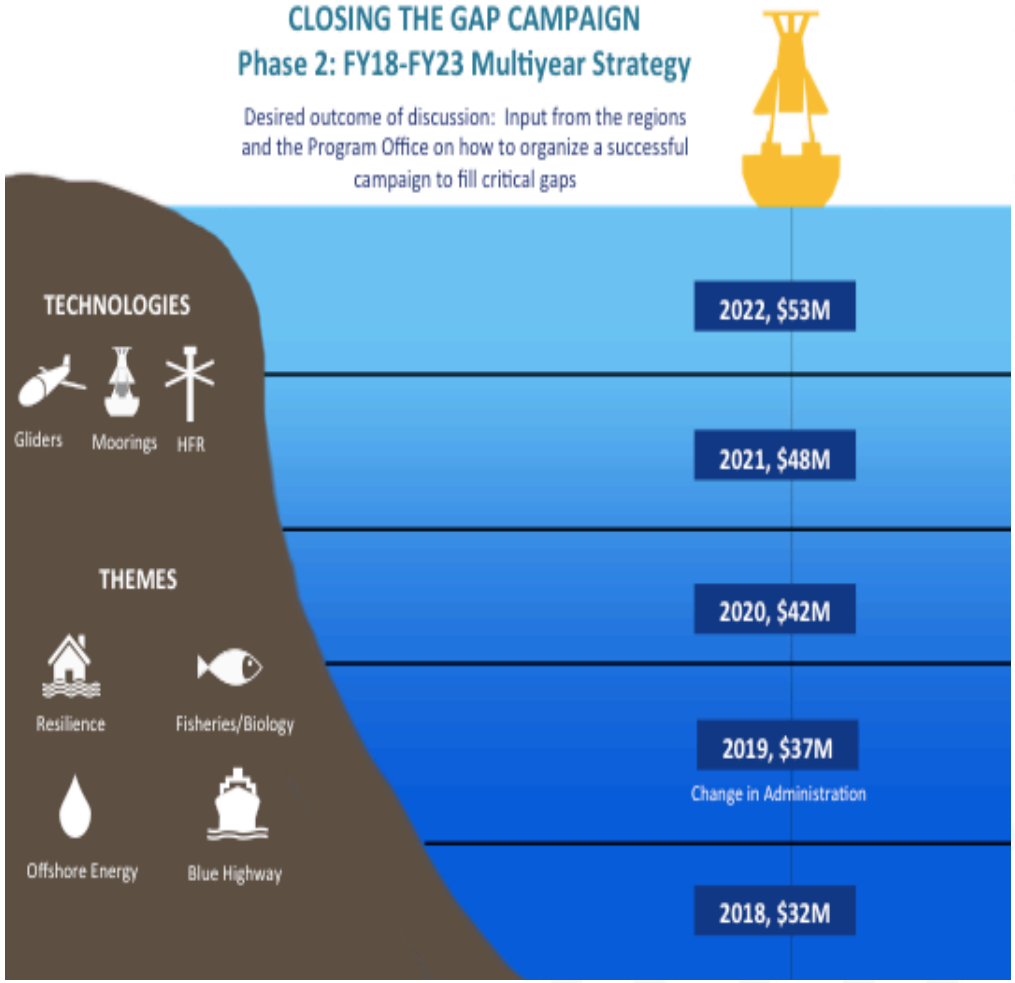
Closing the Gaps: 5 yr Campaign



- Scalable campaign
- Tangible outcomes

- Align with Administration Priorities
- Initial focus
  - Water levels
  - Precision navigation
  - HAB forecasting
- Defining IOOS niche - Federal/Non-federal partnership



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FY 17 IOOS Appropriations

SURFACE CURRENT MAPPING:
Saving Lives, Protecting Health & Commerce

Search and rescue, oil spill response, harmful algal bloom tracking and forecasting, water quality monitoring, and port and harbor navigation all depend on real-time surface current mapping. IOOS operates our nation's only network of high-frequency radars (HFR) providing this information, but we have critical gaps in coverage.

IOOS Integrated Ocean Observing System

WHERE OUR NATION NEEDS SURFACE CURRENT MAPPING:

Saving Lives off Florida's Coast
Florida's east coast is one of the Coast Guard's most active search and rescue areas. Real-time surface current information dramatically increases the odds of finding lost people or vessels.
2 radars needed

Saving Millions in The Gulf of Mexico
The Gulf lacks surface current monitoring along 90 percent of its coast, including along the heavily traveled Mississippi delta. High-frequency radars provide data on the likely path of surface oil that could be released from any of the more than 300 active rigs in the Gulf, saving time and money.
3 radars needed

Protecting Lives and Public Health in the Pacific Northwest
Surface current monitoring alerts mariners to dangerous conditions and warns tribes and resource managers when harmful algal blooms may come ashore. Coverage is absent in Washington, and is needed to protect lives, economy, and culture.
3 radars needed

Safeguarding the Arctic Marine Highway
As ice recedes, more vessels traverse the dangerous waters of the Bering Strait, including commercial cruise ships. But the Arctic lacks adequate critical surface current mapping to ensure safety.
2 remote radars needed

Cleaning up the Great Lakes
The 645-mile oil pipeline under the Straits of Mackinac is showing serious signs of deterioration. Better monitoring would allow a quicker and more effective response for oil spills that threaten this major source of drinking water for millions of people.
2 radars needed

Who Uses IOOS Data?

- Emergency managers
- Fishermen
- Oil spill responders
- Ports
- Public health officials (e.g. beaches, water quality)
- Recreational boaters
- Researchers
- Seafood safety officials
- Shellfish growers
- Tribes
- Bureau of Ocean Energy Management
- Environmental Protection Agency
- National Oceanic and Atmospheric Administration
- Office of Naval Research
- U.S. Arctic Research Commission
- U.S. Army Corps of Engineers
- U.S. Coast Guard
- U.S. Department of State

REGIONAL SYSTEM REQUEST: $33.9 MILLION

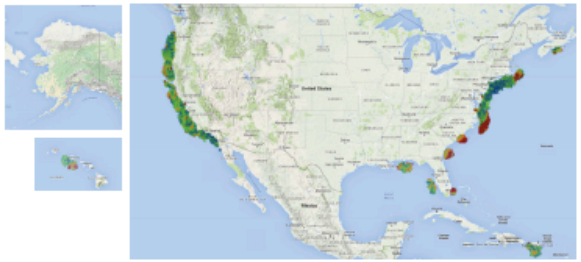
$24.3 million for the national network of 11 regional coastal observing systems

$1.5 million for upgrades and repairs for aging regional systems

$3.1 million to install 12 high frequency radar systems, to close key gaps and make the U.S. surface current mapping system the most reliable, efficient and comprehensive in the world

$5.0 million for research and development, including competitive grants, modeling and verification to develop new products and systems to ensure comprehensive coverage

Map of IOOS high-frequency radars that provide real-time surface currents



NATIONAL SYSTEM REQUEST: $6.7 MILLION

These funds will support the IOOS Program Office, to help:

+ integrate federal and non-federal data
+ develop the nation's first quality control standards for real-time data
+ coordinate across NOAA and the 12 Federal IOOS agencies and
+ certify the regional systems.

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Here's what top decision-makers are saying about IOOS data...

"Ocean information matters if you want to eat seafood, or buy anything that comes from shipping."

"HFR is really important for Coast Guard search and rescue efforts. We cover 22 million nautical miles of ocean. We save about 10 lives a day."

"IOOS is like putting your headlights on when you're on a dark road."

For more information, contact
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	FY 10 Enacted	FY 11 Spend Plan	FY 12 Spend Plan	FY 13 Spend Plan	FY14 Enacted	FY 15 Enacted	FY 16 Enacted	Pres. Bud.	FY 17 IOOS Request
Regional IOOS Total	$27m	$21.9m	$23m	$28.5m	$28.5m	$29.5m	$29.5m	$29.5m	$33.9m
Competitive funding for the national network of regional systems, including surface currents	*$7m*	*$20m*	*$22m*	*$23m*	*$24.3m*	*$24.3m*	*$24.3m*		*$28.9m*
Marine Sensor Innovation Grants, Modeling Test Bed, Sensor Verification	*$7m*	*$1.9m*	*$1m*	*$3m*	*$4.2m*	*$5.2m*	*$5.2m*		*$5m*
US IOOS Program Office*	$6.5m	$6.5m	$6.4m	$6.4m	$6.5m	$6.5m	$6.7m	$6.7m	$6.7m

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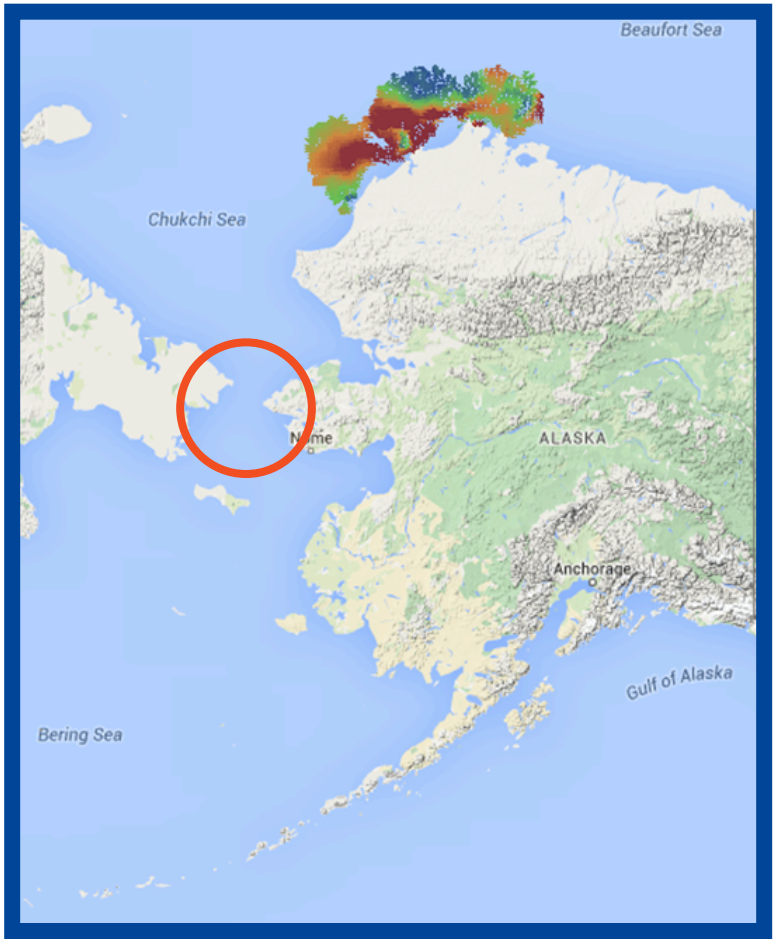
US IOOS FY 17 High Frequency Radar Request

Safeguarding the Arctic Marine Highway

2 remote radars needed



Appropriations

IOOS Appropriations	FY10 Enacted	FY11 Spend Plan	FY 12 Spend Plan	FY 13 Spend Plan	FY 14 Enacted	FY 15 Enacted	FY 16 Enacted	FY 17 Pres Bud	FY 17 Request	FY 17 Pending
Regional IOOS Total	**$27m**	**$21.9m**	**$23 m**	**$26.5m**	**$28.5m**	**$29.5m**	**$29.5m**	**$29.5m**	**33.9m**	**$31.5 m**
Competitive funding for the national network of regional systems, including surface currents	*$20m*	*$20m*	*$22m*	*$23.5m*	*$24.3m*	*$24.5 m*	*$24.5m*		*28.9m*	
Marine Sensor Innovation Grants, Modeling Test bed, Sensor Verification	*$7m*	*$1.9m*	*$1m*	*$3m*	*$4.2m*	*$5 m*	*$5m*		*$5m*	
U.S. IOOS Program Office*	**$6.5m**	**$6.5m**	**$6.4m**	**$5.9m**	***$6.6m***	***$6.6m***	***$6.6m***	**$6.6m**	**$6.6m**	**$6.6m**
Total U.S. IOOS	$33.5m	$28.4m	$29.4m	$32.4m	$35.1m	$ 36.1m	$36.1 m	$36.1 m	40.6m	$38.1m

* Starting in FY 14 included in the Navigation, Observations and Predictions budget line

Continuing Resolution (CR) funding government until Dec. Lame duck session is expected to take up omnibus appropriations bills (or not…. No one really knows…)

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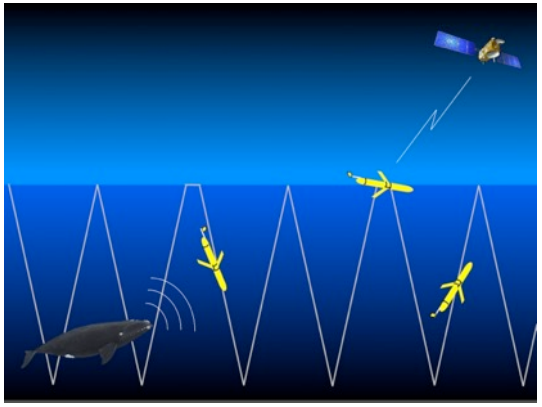
FY 18 Request - Draft

- 2 Scenarios for Congress:
  - Scenario 1: Assume no new $2m
    - $3.1 m for 12 radars (same as FY 17)
    - $3.3m for 17 glider missions in 11 regions
    - Total: $6.4m
  - Scenario 2: $2m in FY 18
    - Continue HFR build out $3m - 10 radars plus O&M on 8 radars
    - Gliders $3.3 m for 17 glider missions
    - Total: $6.3m
  - *May adjust glider request - focus on high priority needs*



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ICOOS Act Reauthorization

Sponsor of
HR 2744

Co-sponsors of S 1886

114TH CONGRESS
1ST SESSION

S. 1886

To reauthorize the Integrated Coastal and Ocean Observation System Act of 2009 and for other purposes.

IN THE SENATE OF THE UNITED STATES

JULY 29, 2015

Mr. WICKER (for himself and Ms. CANTWELL) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

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A BILL

To reauthorize the Integrated Coastal and Ocean Observation System Act of 2009 and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the "Coordinated Ocean Monitoring and Research Act".

Passed Senate unanimously
House?

Changes Coming Soon ….

Zdenka retiring

New Administration

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Opportunities

Certified

PacIOOS

GLOS

Submitted

AOOS

GCOOS

MARACOOS

SCCOOS

On Deck..

SECOORA

NERACOOS

CaRICOOS

NANOOS

CeNCOOS

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Honorary Directors

- Adm Paul Gaffney
- Adm Conrad Lautenbacher
- Mary Glackin
- Norm Dick

Meeting in Seattle Jan 2016

Strategic Partners
Transition Planning
Long-term strategy
Champions for IOOS

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Priorities for the New Administration

- Complete HFR network
- Fully fund the existing 5-year regional agreements to:
  - Expand our ability to see underwater.
  - Bring observations inshore.
  - Enhance access to tailored information
- Spur technology innovation
  - Double funding of the OOS Ocean Technology Transfer (OTT) program
- Address critical national needs, including:
  - Create deep-water observing network in the Gulf of Mexico.
  - Develop baseline observing capacity in the Arctic.
- Reauthorize ICOOS Act

Total Investment: $10m/year (new) for 5 yrs

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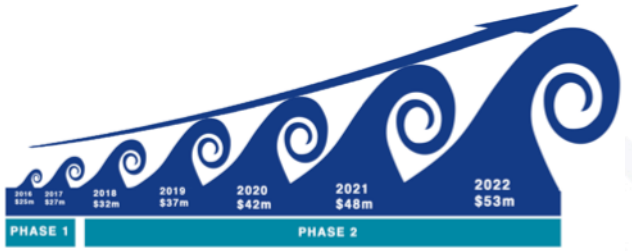
Upcoming

- Filling the Gaps
  - FY 18 Request
  - 5-yr strategy –flesh out gaps for themes
- Message IOOS - Commentary, editorial, article.
- Celebrate and leverage certification
- Community workshop on (possible topics)
  - Gaps
  - Integrated regional systems
  - Preparing for Ocean 2019
  - Other
- Transitions.. Administration, Office
- Interagency - BOEM/BESSE, NFWF, EPA…



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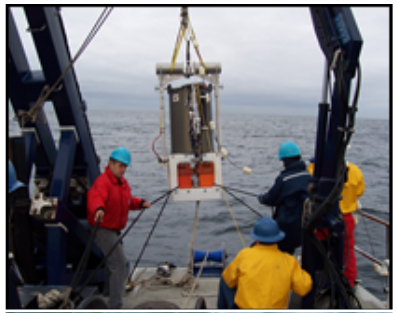
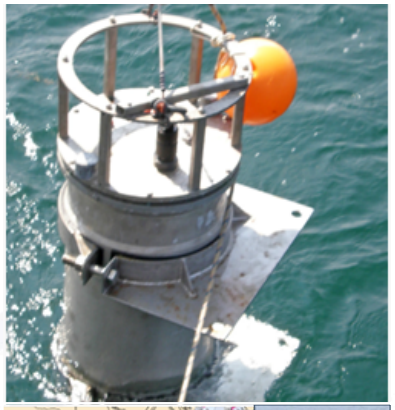
Advocacy

- October
  - Members and staff will be in district to campaign
- November 8 - National Election
- November - December -– Lame Duck Congress
  - Week of Nov 14th and Dec 5th- DC Meetings to support for FY 17 appropriation, reauthorization
- January - Week of Jan 23
  - Preliminary meetings with Authorizers and Appropriators
  - Meeting with new Administration
- February
  - GCOOS Briefing and Hill Visits, GLOS Congressional Week
  - OMB, New Administration, Congressional approp request
- March
  - IOOS Spring Meeting
  - Hill Briefing - Ecological (HAB, OA)
  - Congressional appropriation requests, Dear Colleague Letters
- April
  - Hill Briefing





Thank you

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