

# Interagency Ocean Observation Committee



## Biological Integration and Observation Task Team (BIO-TT)

Research Coordination Networks: October 24<sup>th</sup> 2014

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# Interagency Ocean Observation Committee



## IOOS Summit November 2012

- Full summit report available: <http://www.iooc.us/summit/#REPORT>
- Of the 25 recommendation areas 8 contained biological elements
- BIO-TT formalized in March 2013 with a 2 year initial term
- First IOOC task team

# Task Team Membership



**Bob Houtman\*** - Interagency Ocean Observation Committee

**Sarah Miller\*** – U.S. Army Corps of Engineers

**James Price** - Bureau of Ocean Energy Management

**Samantha Simmons\*** (Chair) - Marine Mammal Commission

**Michael Weise\*** - Office of Naval Research

**Hassan Moustahfid \*** - Integrated Ocean Observing System

**Rebecca Shuford** - National Oceanic & Atmospheric Administration

**Kandace Binkley** - National Science Foundation

**Mark Fornwall** - US Geological Survey

**Raphe Kudela** – Regional Associations (CeNCOOS)

**Jay Pearlman, Eileen Hofmann** - RCN

Support: Nick Rome, Hannah Dean – Consortium for Ocean Leadership

# GOALS

Scope of work available: [http://www.iooc.us/wp-content/uploads/2014/02/BIO-TT-Scope-of-Work\\_WEB-VERSION.pdf](http://www.iooc.us/wp-content/uploads/2014/02/BIO-TT-Scope-of-Work_WEB-VERSION.pdf)



## **A. Improve the availability of existing IOOS core biological variables**

- phytoplankton species (and abundance)
- zooplankton species
- zooplankton abundance
- fish species
- fish abundance

## **B. Identify, and prioritize additional cross-cutting biological and ecosystem observation needs**

# ACTIONS



## **Designed & executed a survey (Survey Monkey)**

- Two part design Part one = goal A. Part two of the survey goal B.
- Federal agencies
- Beta-tested
- Survey was live March 7<sup>th</sup> – April 18<sup>th</sup> 2014
- Analyses and report drafting ongoing

## **Workshop Nov 4-6<sup>th</sup> 2014**

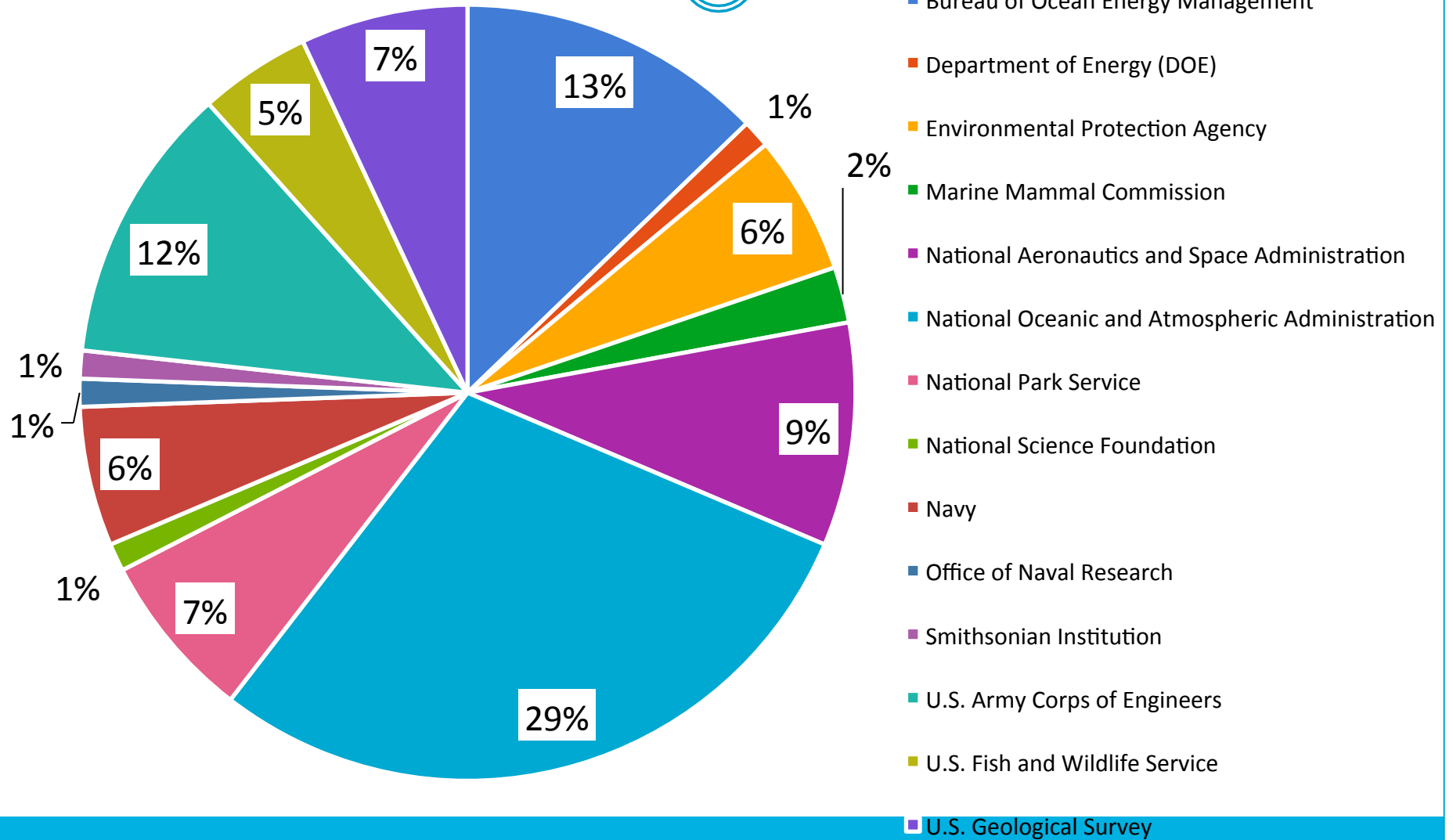
- Broader observing community
- Integrate “needs” from the survey (Part B)
- Review the prioritized biological and ecosystem variables from the survey
- Recommend next IOOS core biological variables

# SURVEY RESULTS



- Preliminary survey results:
  - Response rates

# SURVEY RESULTS



# RESULTS



- Preliminary survey results:
  - Response rates
  - Needs not being met



# RESULTS (preliminary)



<b>Category</b>	<b>Subcategory</b>	
Organism	Benthos Birds Corals ESA Listed Fish Marine Mammals	Invertebrates Phytoplankton Protected Species Sea Turtles Zooplankton
Non-Organism	Geography Chemistry	Physical Oceanography
Ecosystem	Habitat Population Characteristics	
Anthropogenic	Anthropogenic Human Uses	Human Impacts
Other	Data Optical	Sound

<b>High</b> ( $\geq 12$ responses)	<b>Medium</b> (6 to 11 responses)	<b>Low</b> (<5 responses)
Benthos, Data, Habitat, Population Characteristics, Zooplankton, Fish, Anthropogenic	Chemistry, Corals, Geography, Invertebrates, Marine Mammals, Phytoplankton, Sound	Birds, ESA Listed, Oceanography, Optical, Physical, Protected Species, Sea Turtles

# RESULTS



- Preliminary survey results:
  - Response rates
  - Needs not being met
  - Why not being met?

# RESULTS (preliminary)



<b>Problem Areas</b>	<b>Specific Survey Choices</b>	<b>Responses</b>
Too Few Observations	Geographic areas of interest contain too few observations	104
	Too few observations in general	88
	Repeated observations over time	80
Resources	Funding Limitations	87
	Infrastructure Limitations (e.g. ships, aircraft etc.)	61
Data	Timely data availability is inadequate	45
	Data quality	39
	Data precision	32
	Lack of data documentation	28
	Available in a limited format	15

# NEXT STEPS



- Survey report
- Survey results in query-able format
- Workshop Nov 4-6<sup>th</sup>
- Workshop report and recommendations to IOOS
- Follow up effort with IOOS Program Office
- BIO-TT sunset date March 2015
  
- Questions?

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