

# IOOS Marine Life Program: Monitoring Ecological Change Through Observing Systems

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# IOOS Marine Life Program

WHERE IS THE MARINE  
AND AQUATIC LIFE ?



HOTSPOTS

"Microbes to Whales"

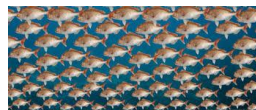
WICLODS? IO AUGIS?

WHO'S THERE ?



BIODIVERSITY

HOW MANY?



ABUNDANCE

WHERE'D THEY COME FROM ?  
WHERE ARE THEY GOING ?



MOVEMENT

**MBON**  
Marine Biodiversity  
Observation Network



and WHY ?



# Vision and Request

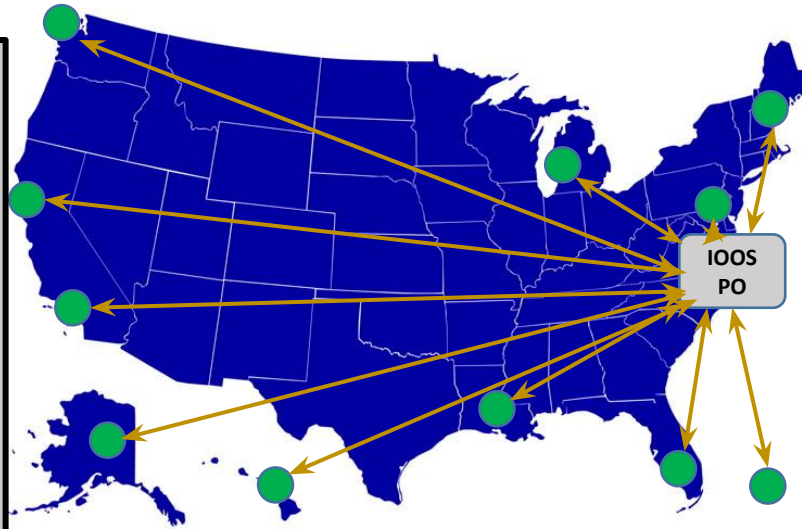
- Vision: to ensure long-term, sustained marine life observation capability
- FY22 President's Budget
  - \$15M to IOOS for 'grants to external partners that expand the collection of marine life observations, support analysis of marine life data and information products, and forecast the implications of climate change on living resources and ecosystems external awards
  - \$2M to IOOS, staffing and capacity (eg establishing a Marine Life Data Assembly Center)

# Approach

Implement a sustained marine life monitoring, analysis and interpretation program by maintaining existing marine life efforts in the IOOS Regions, supporting proposed NOPP and RA Tier 2 activities and adding new activities that address regional requirements and national priorities

## *National level priorities include:*

- Sustained biodiversity/tagging operations*
- Passive & active acoustics/soundscapes*
- National-level assessments, status & trends*
- Data analysis, interpretation & information*
- Sentinel science & indicators*
- Vulnerability & adaptation*
- Catching the coastal climate signal*
- Advancing global efforts (GOOS, GEO BON/MBON, Marine Life 2030, AniBOS)*



# Critical Components

1. Support existing and new base level observational efforts
2. Expand existing national capacity to a dedicated and scalable state of the art, operational Marine Life Data Assembly Center
3. Add management and dedicated data handling positions
4. Continue the interagency competitive NOPP process to award new and innovative marine life observing capabilities while building upon and leveraging the IOOS regional observing, data, and prediction systems.

# FY22 Funding Categories

Regional data wranglers

New deployments, Argos fees, O&M

NOPP Marine Life NOFO - new projects

<https://www.grants.gov/web/grants/search-grants.html?keywords=mbon>

Marine Life DAC

NCEI archival support

Development of data products with partners

Global activities

# Thank you!