

U.S. IOOS Office Updates

Becky Baltes, Acting Operations Division Chief
September 26, 2023

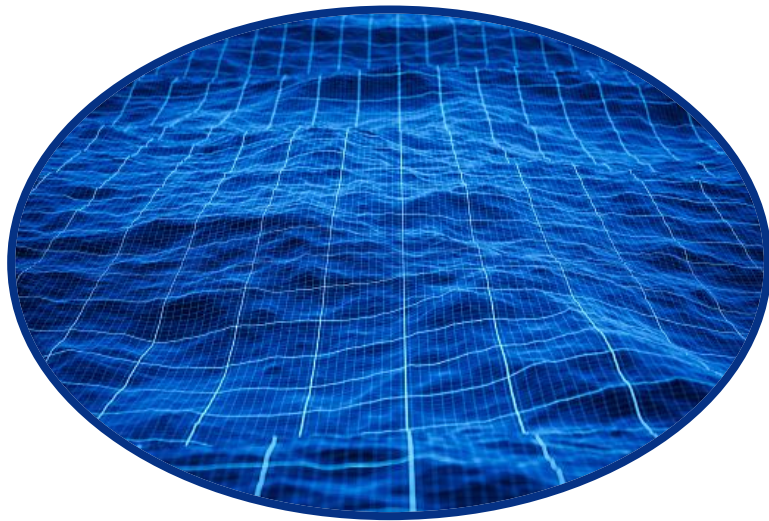


A Time of Change



Environmental Change

Biological Change



Technological Change

NOAA FY22-26 **STRATEGIC GOALS**

01

**BUILD A CLIMATE
READY NATION**

02

**MAKE EQUITY CENTRAL
TO NOAA'S MISSION**

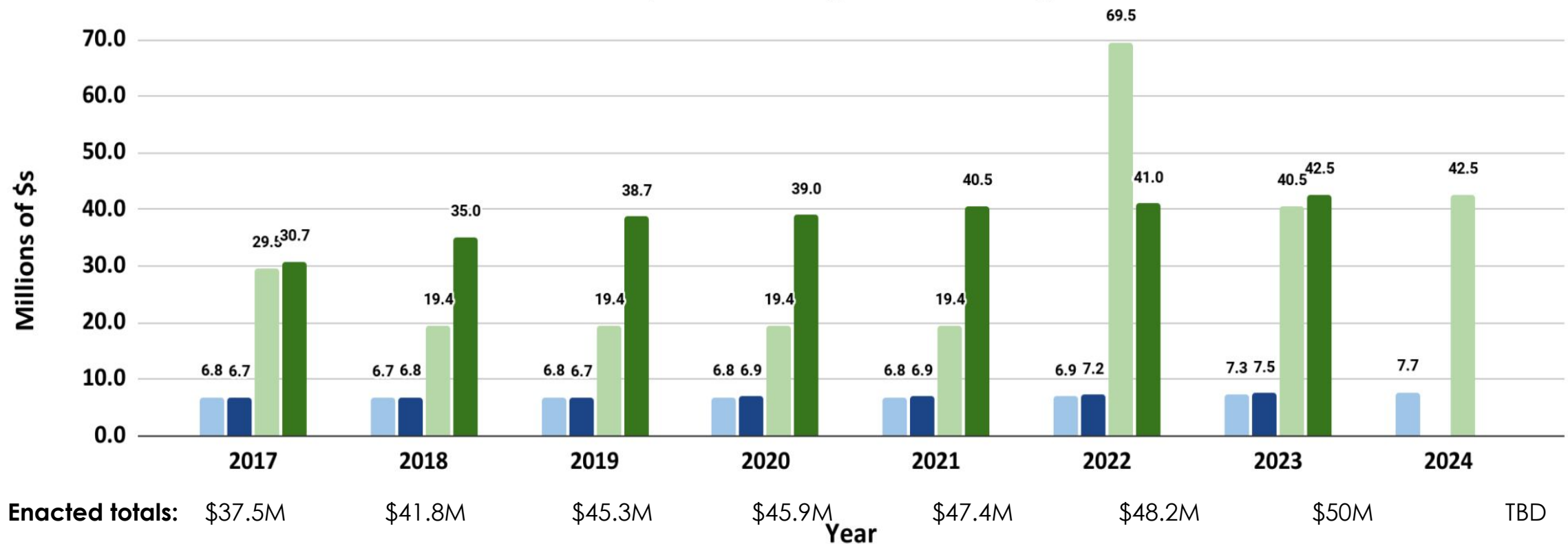
03

**ACCELERATE GROWTH IN
AN INFORMATION-BASED
BLUE ECONOMY**

U.S. IOOS Enacted and President's Budgets FY17–24

NOS IOOS Request & Appropriation History

Part of the Story - not including 'backbone and global'



■ NAT IOOS \$s Request ■ NAT IOOS \$s Enacted ■ REG IOOS \$s Request ■ REG IOOS \$s Enacted

NOAA National Ocean Service - Navigation, Observations, and Positioning:
'National IOOS' & 'Regional IOOS Observations'

- Estimated Enacted levels are 'post rescission' totals for each year
- 'Request' = the President's Budget Request

IOOS Office and Inflation Reduction Act Planning

Eligible IOOS uses of funds within Sec. 40001 RA include:

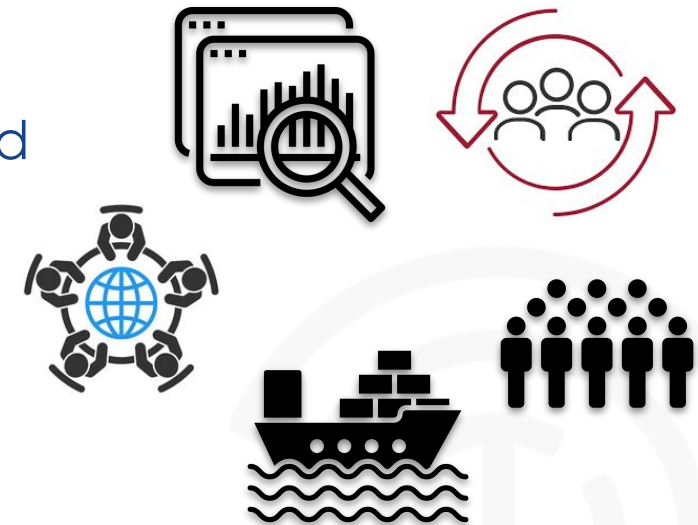
- ~ \$215 M w/in Climate Ready Coasts and Communities

Funding Mechanisms include:

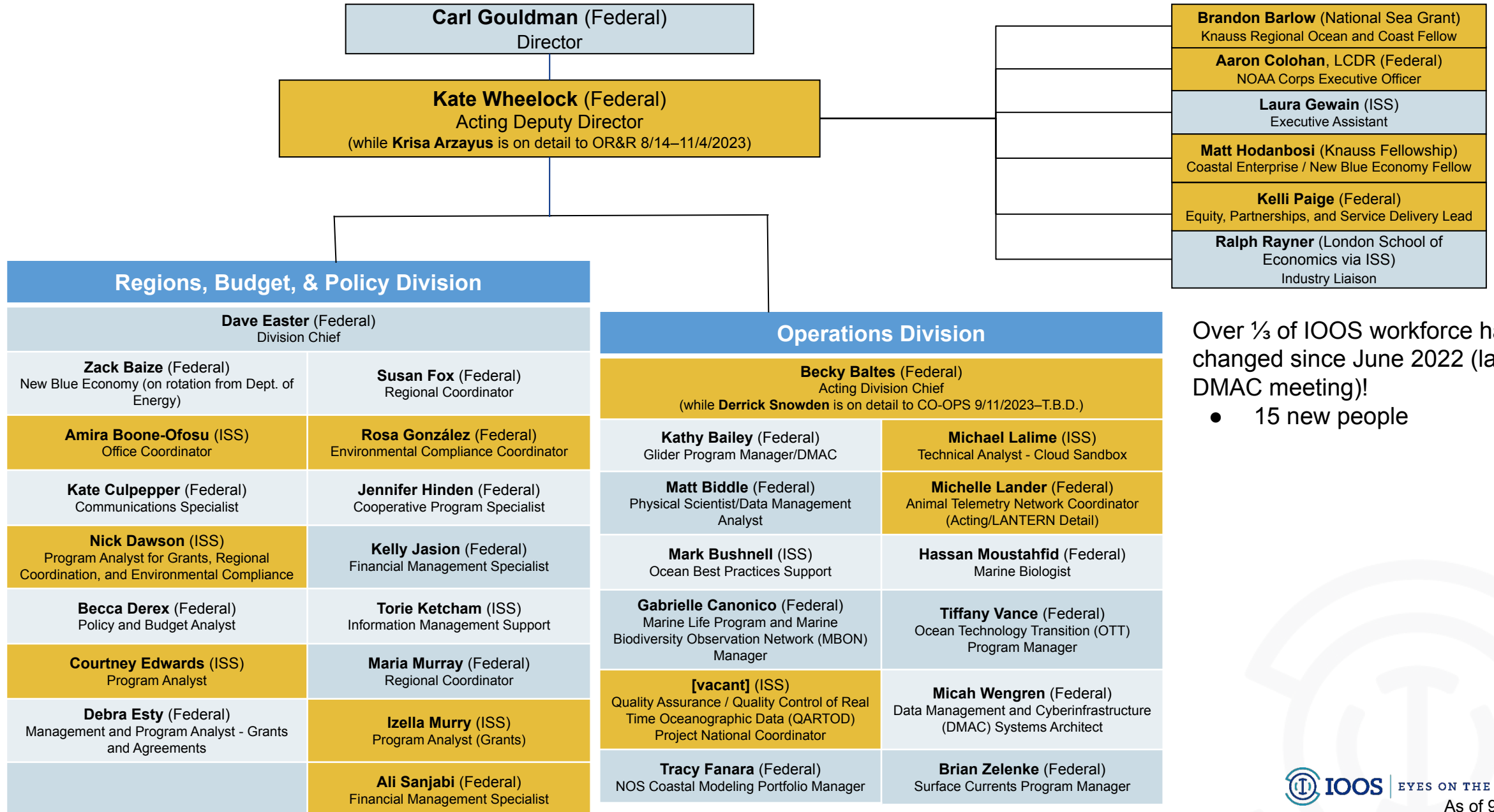
- **\$100 M** non-competitive **Request for Applications for IOOS RAs**
 - Cooperative Agreements up to 5 years
- **\$60 M** new **NOFO Ocean-based Climate Resilience Accelerators** up to 4-5 years
- **\$40 M** existing **NOAA competitive funding opportunities**
 - Incl. U.S. MBON, Marine Carbon Dioxide Removal, Ocean Technology Transition, Effects of Sea Level Rise, Climate Impacts in Marine Sanctuaries to Support Management, and BAA
- \$15M Technical Assistance and Mgt & Admin.

Timing

- All funding must be obligated by end of FY26, but priority is being made to implement grants as soon as reasonable.



U.S. Integrated Ocean Observing System Office



Over ⅓ of IOOS workforce has changed since June 2022 (last DMAC meeting)!

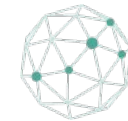
- 15 new people

IOOS Operations Division Updates

DMAC Highlights

Marine Biological Data Mobilization Workshop (March 2022 & April 2023)

- Collaborative effort between OBIS, IOOS, MBON, Hakai, CIOOS & OTN
- Small hands-on, interactive virtual workshop focused on mobilizing marine biological observation datasets & advance interoperability for marine data
- Focused on the application of the Darwin Core data standard
- **83** Participants (increase from 2022) with **2** datasets mobilized.
 - Sanctuary Soundscape Monitoring Project (SanctSound) Daily Aggregated Species Detections
 - MARINe/PISCO: Intertidal: MARINe Coastal Biodiversity Surveys: Point Contact Surveys Summarized



Code_Sprint



Upcoming: 2024 IOOS Code Sprint MARACOOS (Spring 2024 - Washington D.C.)

IOOS Code Sprint (April 2022)

- IOOS Office and GLOS RA hosted the [2022 IOOS Code Sprint](#)
- Very well attended hybrid event with 40 participants

Coastal and Ocean Modeling

- NOS Modeling Strategy 2023- [Website with Link to Document](#)
- NOS Modeling Implementation Plan is in Development to be published November, 2023
- Coastal Coupling Community of Practice Annual Meeting 2023
- 4 BIL Projects inc. 3 Model Developments and the new NOAA Cloud Sandbox
- 5 COMT Projects are in progress, next NOFO will be out soon

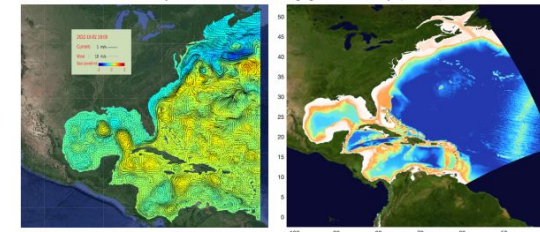
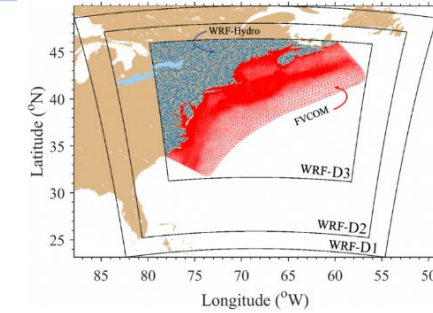
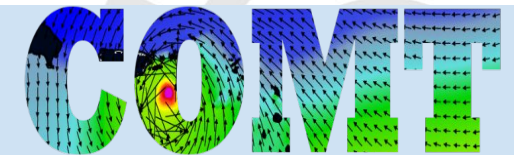


Figure 1: Domains covered by existing models run by the ECCOFS team. Left: Surface current forecast from the Coupled Northwest Atlantic Prediction System (CNAPS). Right: Domain and bathymetry of the Rutgers West Atlantic (WATL) model.



COMT Awards - June 2021

- 5 Awards for 3-year projects that will run 2021–2024
- Max funding per project of \$300K/year and a total of up to \$2M in funding
- Next NOFO will be published shortly



Highlights from IOOS Observing System Programs



Gliders (Kathy Bailey):

- LCDR Aaron Colohan providing IOOS support on the Glider DAC and hurricane glider operations
- Merged two Glider DAC GitHub repos. [ioos/glider-dac](https://github.com/ioos/glider-dac) = main GDAC GH Repo
- New UG2 Coordinator: Georgia Coward, UCAR/COL
- Stay tuned for a 2024 UG2 Workshop (TBA)!



Marine Life (Matt Biddle, Gabrielle Canonico):

- New POC at OBIS-USA: Steve Formel, USGS
- ATN automated archival to NCEI
- MBON eDNA data flows, input to NOAA eDNA data plan, documenting links to OBIS
- SoundCOOP; PAM data/metrics documentation

<https://www.ncei.noaa.gov/products/passive-acoustic-data#tab-3561>

Highlights from IOOS Observing System Programs



HF-radar (Brian Zelenke):

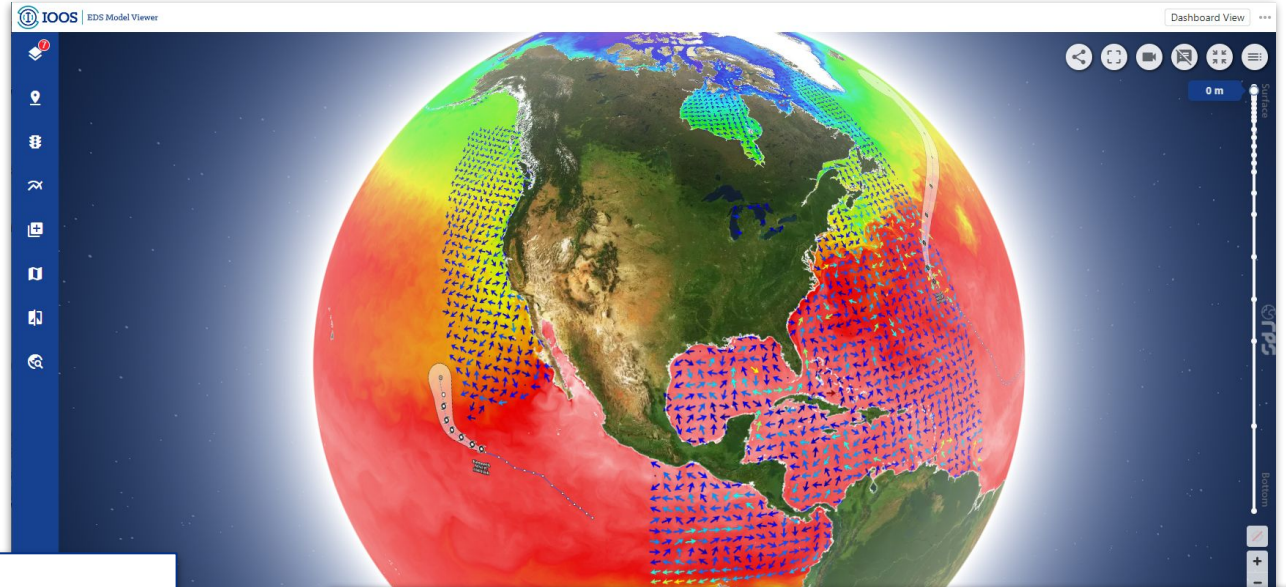
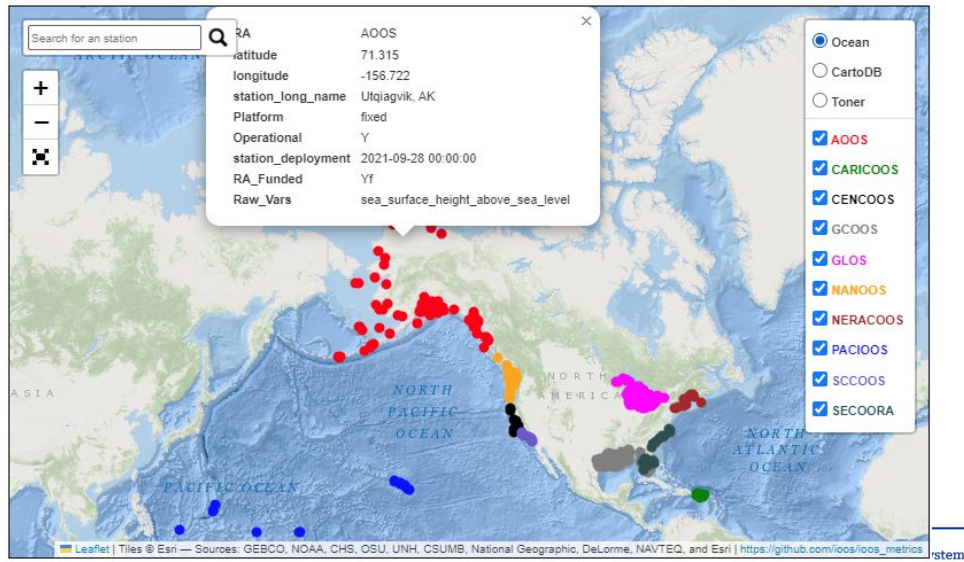
- Replacing the “HFRNet” HF-radar data assembly center by FY 2025—the DMAC community’s input is requested by 10/15/2023 at <https://sam.gov/opp/4cfd2027e50b45558f957acef19af732/view>
- Adding near real-time wave data (wave height, period, and direction) at dozens of stations nationwide, in addition to present surface current velocity measurements.
- Mitigating interference to the HF-radars from offshore wind (OSW) turbines using data from additional OSW developer-provided *in situ* surface current and wave sensors.



HAB (Tiffany Vance):

- Implementation Plan for a National HAB Observing Network (NHABON) under review by DOC and headed to Congress
- Nine HAB pilot projects across all 11 regions funded in FY2023
- There are also HAB/Hypoxia related OTT projects recommended for funding. Official announcement of these on 2 October

IOOS.US Product Updates



IOOS DATA - VIEWERS - DACS - REGIONAL ASSOCIATIONS - ABOUT -

Search IOOS Data Catalog: E.g. Environment

IOOS Model Viewer

Sanctuary Soundscape (SanctSound)

Environmental Sensor Map

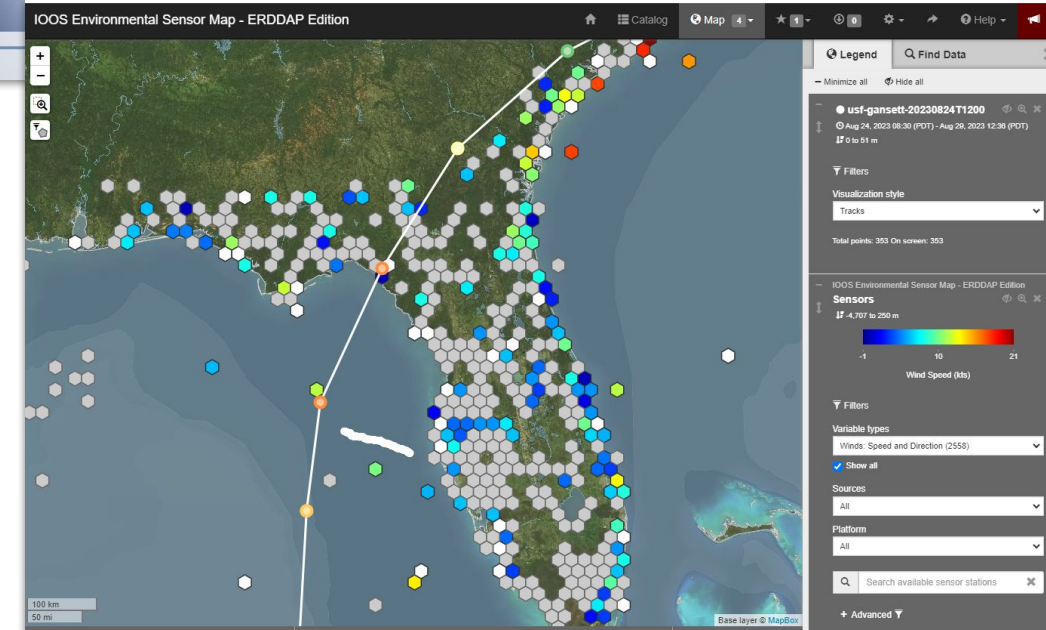
IOOS Data Catalog

Animal Telemetry Network

Profiling Gliders

HF Radar

Regional Portals



Questions?

Current NOAA IRA Funding Opportunities



Climate Resilience Regional Challenge

\$575 million

1. Risk reduction
 2. Regional coordination and collaboration
 3. Equity and inclusion
 4. Enduring capacity
- Track 1: Regional Collaborative Building and Strategy Development (\$25M)
 - Track 2: Implementation of Resilience and Adaptation Actions (\$550M)



Ocean-based Climate Resilience Accelerators

\$100 million

- Support businesses in commercializing technologies related to NOAA's mission to help communities prepare for, adapt to, and build resilience to climate challenges
- Renewable energy
- Carbon sequestration monitoring and accounting
- Hazard mitigation and coastal resilience
- Ecosystem services, incl. change



Climate Ready Workforce

\$60 million

- Training and support services to help American workers advance their careers and implement climate resilience efforts within public and private sectors

Timeline for Published NOAA IRA Funding Opportunities

