

U.S. IOOS Office Updates

Becky Baltes, Acting Operations Division Chief
September 26, 2023

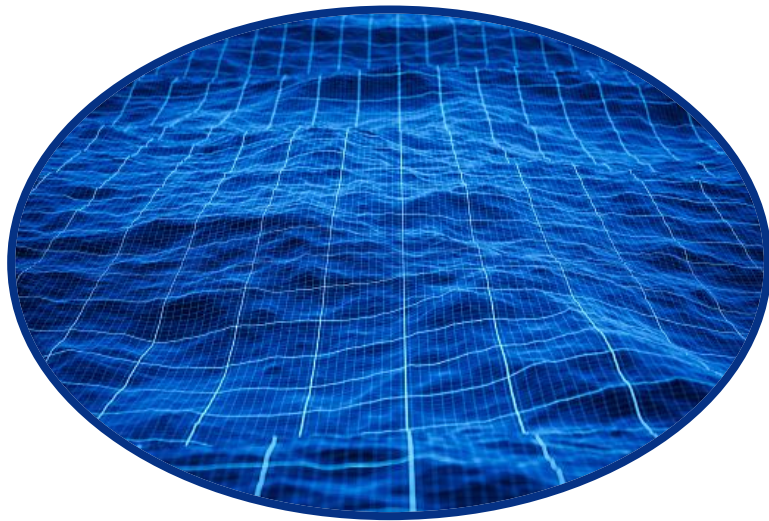


A Time of Change



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**

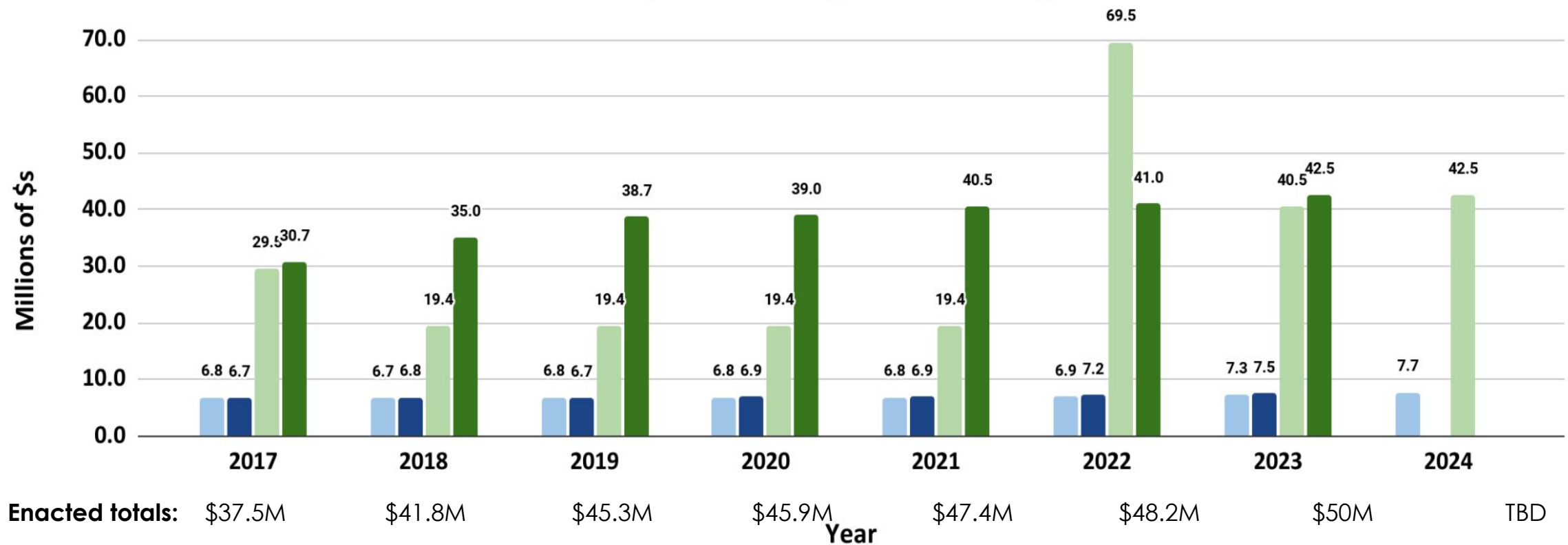
03

**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:

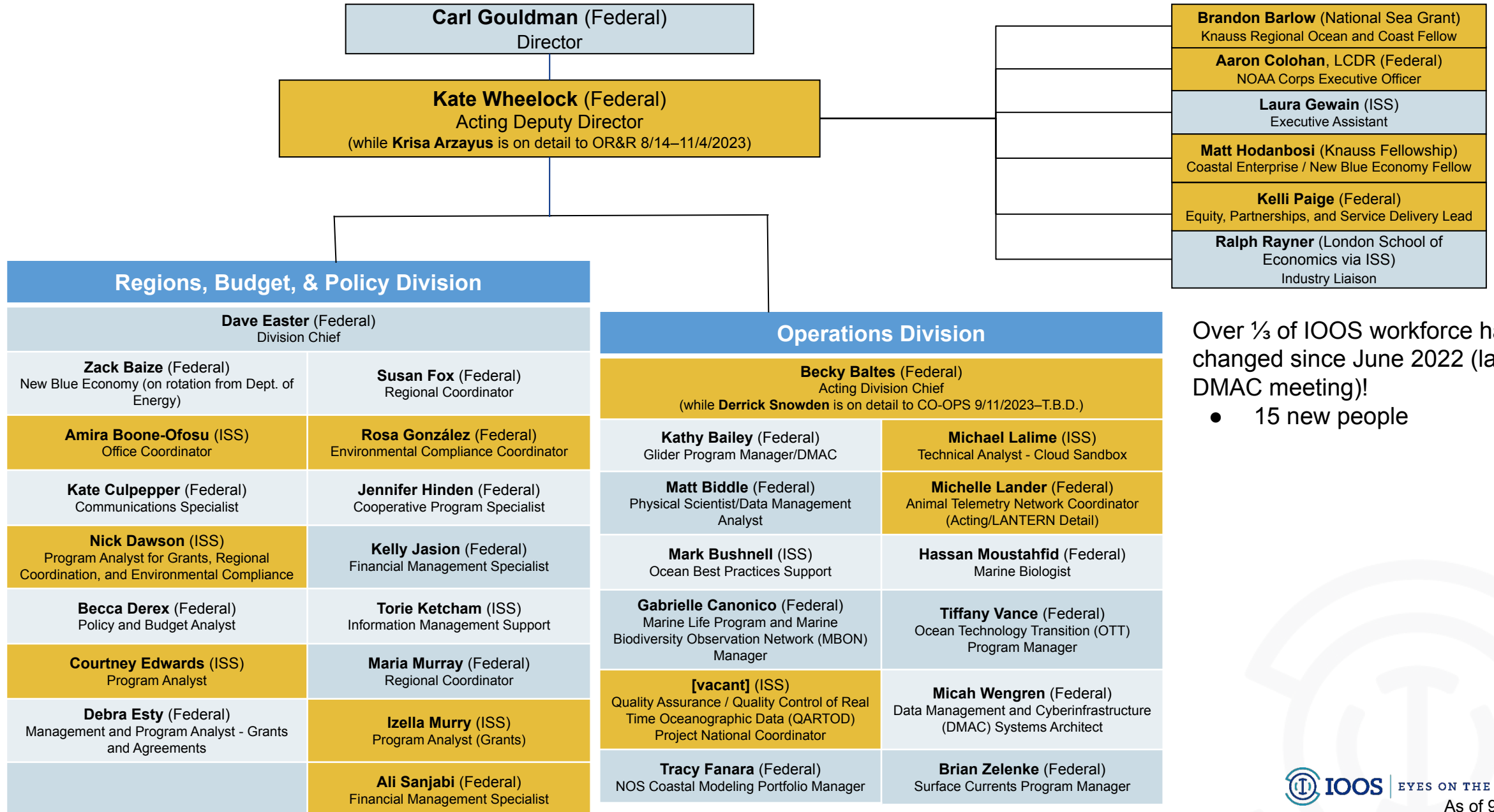
- **\$100 M** non-competitive **Request for Applications for IOOS RAs**
 - Cooperative Agreements up to 5 years
- **\$60 M** new **NOFO Ocean-based Climate Resilience Accelerators** up to 4-5 years
- **\$40 M** existing **NOAA competitive funding opportunities**
 - Incl. U.S. MBON, Marine Carbon Dioxide 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)!

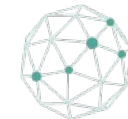
- 15 new people

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**

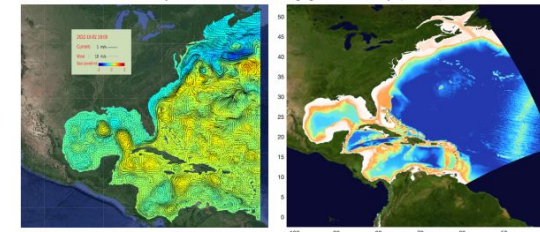
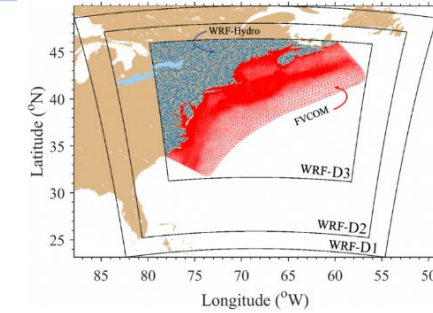
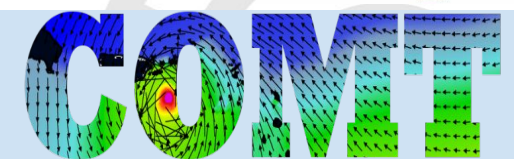
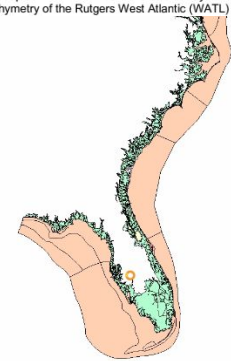


Figure 1: Domains covered by existing models run by the ECCOFS team. Left: Surface current forecast from the Coupled Northwest Atlantic Prediction System (CNAPS). Right: Domain and bathymetry of the Rutgers West Atlantic (WATL) model.



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):

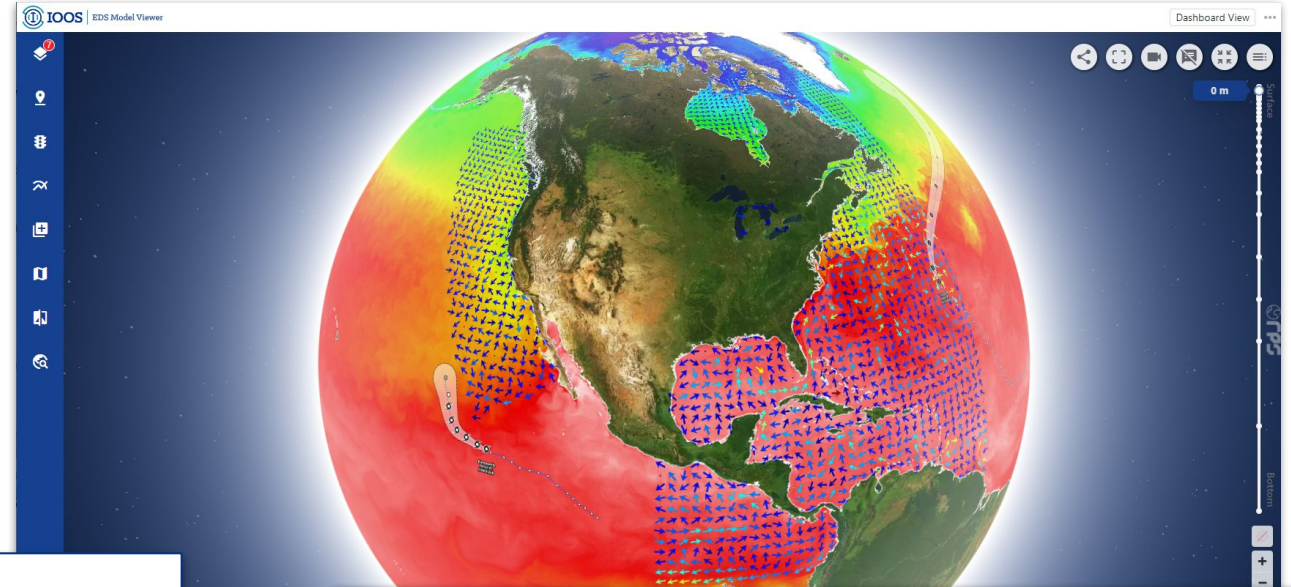
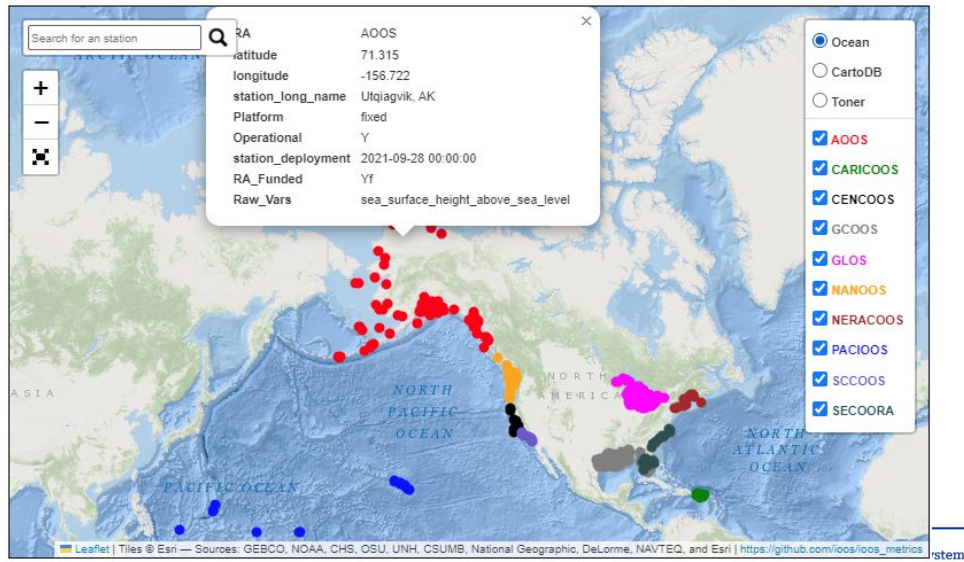
- Replacing the “HFRNet” HF-radar data assembly center by FY 2025—the DMAC community’s input is requested by 10/15/2023 at <https://sam.gov/opp/4cfd2027e50b45558f957acef19af732/view>
- Adding near real-time wave data (wave height, period, and direction) at dozens of stations nationwide, in addition to 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:

IOOS Model Viewer

Sanctuary Soundscape (SanctSound)

Environmental Sensor Map

IOOS Data Catalog

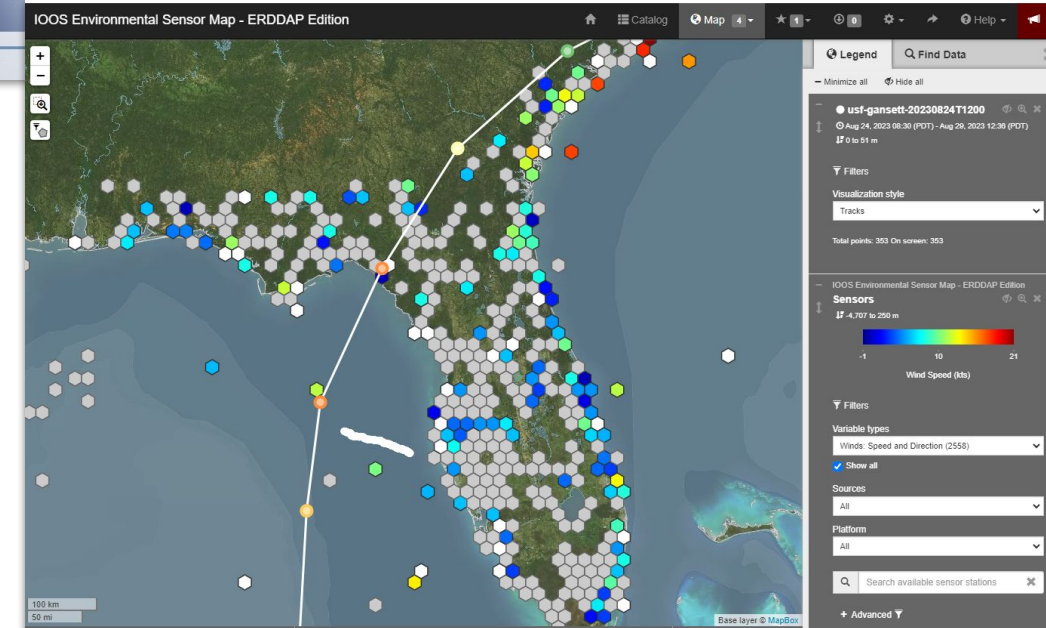
Animal Telemetry Network

Profiling Gliders

HF Radar

Regional Portals

© Ralph Pace



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

