

U.S. IOOS Office Updates

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NOAA FY22-26 **STRATEGIC GOALS**



**BUILD A CLIMATE
READY NATION**



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

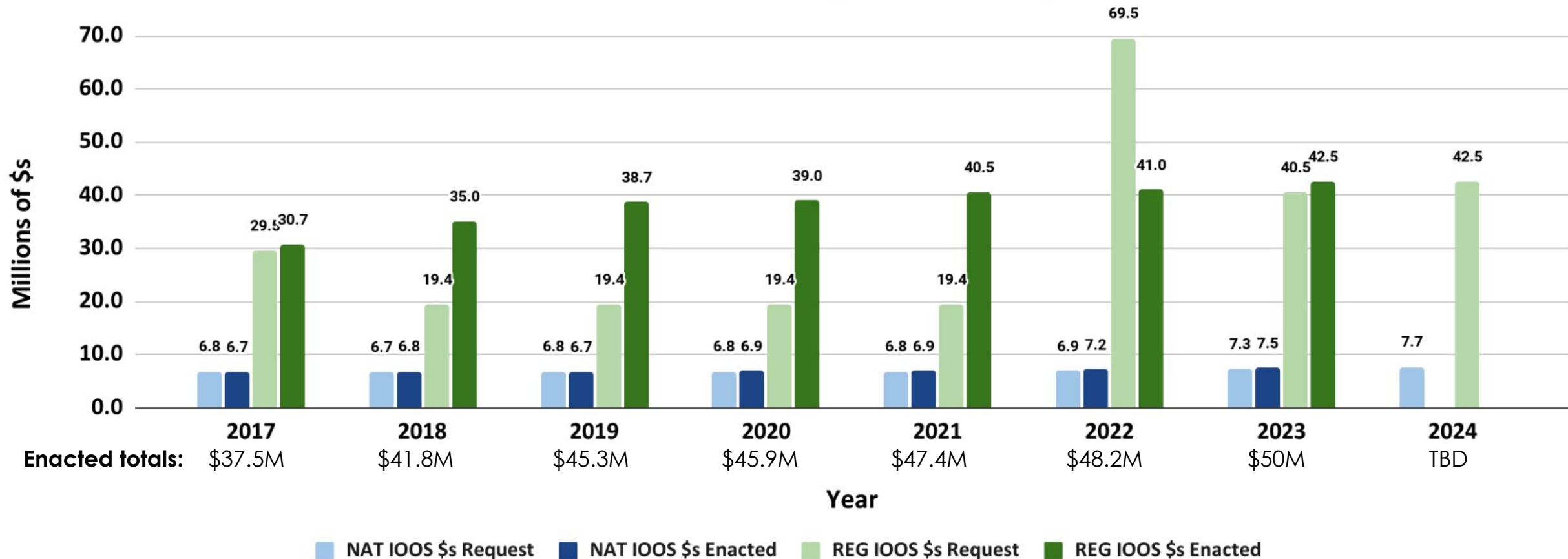


**ACCELERATE GROWTH IN
AN INFORMATION-BASED
BLUE ECONOMY**

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

NOS IOOS Request & Appropriation History

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



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

Next Steps - Budget



FY23 Appropriations

- **Regional Observations** = \$42.5M
- **National IOOS** = \$7.5M



FY22 & FY23–26 Bipartisan Infrastructure Law (BIL; formerly IIJA)

- **Prov 3:** Flood Inundation Mapping = \$4.5M
- **Prov 11:** Coastal and Ocean Observations = \$7.3M
- **Prov 12:** Regional Ocean Partnerships = \$1.8M



FY23 Community Special Project (congressionally directed)

- Six total projects administered by IOOS

FY23–26 Inflation Reduction Act



- **Coastal, Economic, and Climate Resilience** = \$3.3B for NOAA over 4 years
 - Climate Ready Coasts = \$2.6B for NOAA

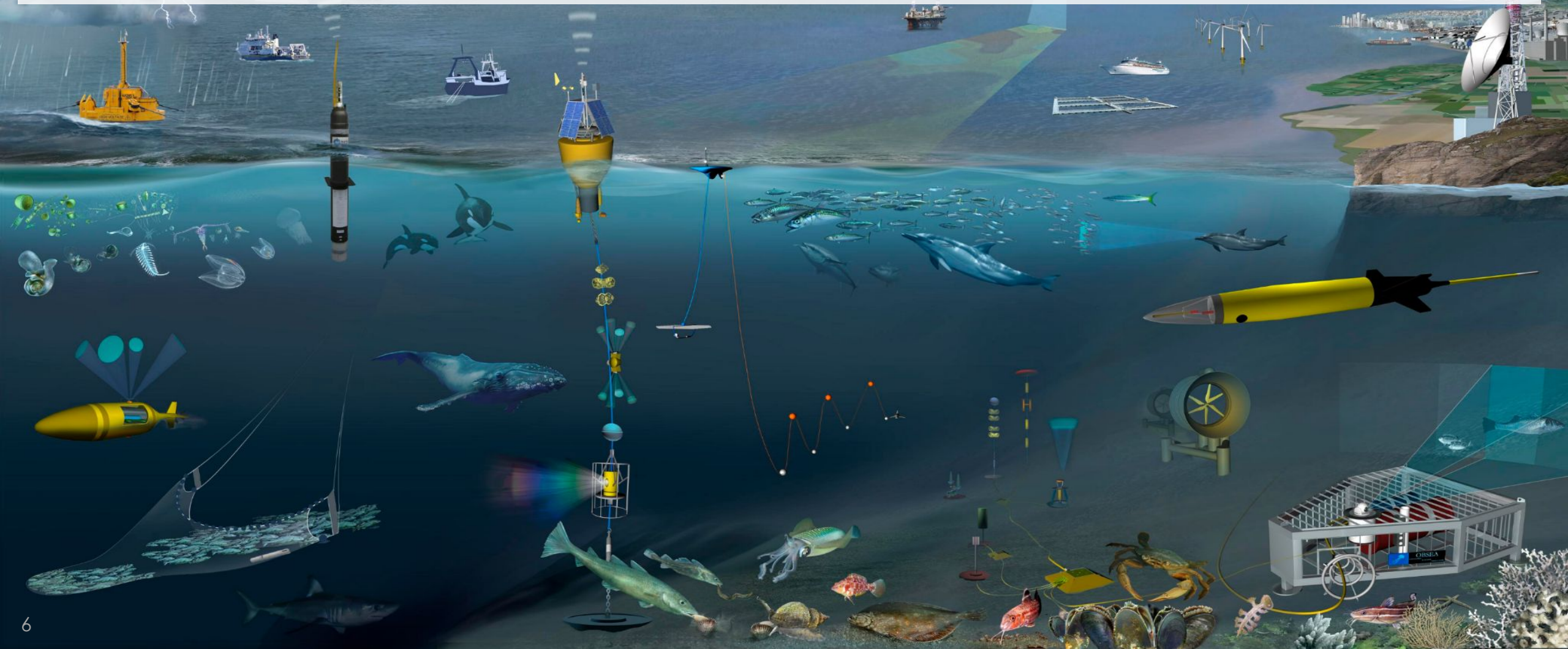


FY23–26 Inflation Reduction Act

- **Coastal, Economic, and Climate Resilience** = \$3.3B for NOAA over 4 years
 - Climate Ready Coasts - Coastal Communities and Climate Resilience = \$2.6B
 - Enable coastal communities to prepare for extreme storms and other changing climate conditions
 - Support natural resources that sustain coastal and marine resource dependent communities
 - Support marine fishery and marine mammal stock assessments

NOAA's New Blue Economy Vision

A sustainable and equitable ocean and coastal economy that optimizes advances in science and technology to create value-added, data-driven economic opportunities and solutions to pressing societal needs.



Coastal Resilience Role for IOOS?

“Coastal resilience is the ability of populations, ecosystems, and economies to **prepare for, absorb, respond to, recover from, and successfully adapt to** the impacts of natural and human-caused hazards, such as hurricanes and oil spills, and long-term environmental change, such as habitat loss and sea level rise.”

(National Ocean Service: draft definition March 2023)

National Harmful Algal Bloom Observing Network (NHABON)

Year	Award	# Pilot Projects	# RAs Involved
FY20	\$1M	5	6
FY21	\$1.5M	7	8
FY22	\$2.5M	10	11
FY23	\$3M	TBD	TBD



NHABON Implementation Plan in review and headed to Congress

Goal: *Integrate existing assets and research efforts across NOAA into a more formal national observing network*

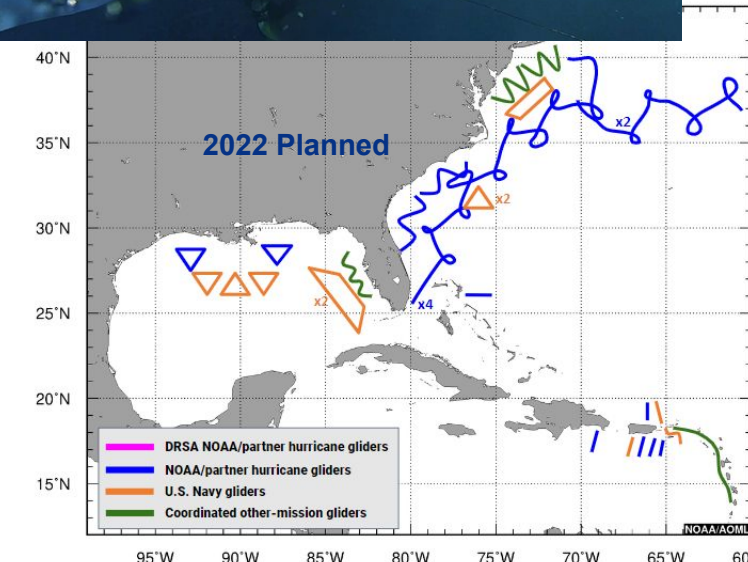
IOOS Glider Program

Successful Underwater Glider User Group (UG2) Workshop (September 2022)

- 160 participants in plenary talks and breakout sessions
- UG2 Slack channel has been active (sign up via underwatergliders.org)

Hurricane Monitoring:

- 5th year of the NOAA-Navy collaboration.
 - 12 gliders contributed by the U.S. Navy
- **Gliders captured Hurricane Fiona** (AOML and CARICOOS)



Marine Biodiversity Observation Network (MBON)



National Oceanographic Partnership Program:

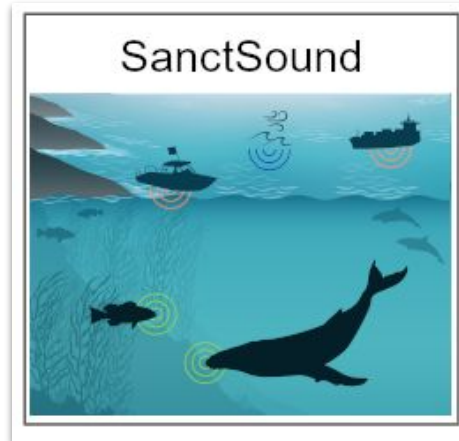
FY22 Marine Life solicitation
(NOAA, NASA, ONR)

5 new projects:
CeNCOOS, NERACOOS,
GCOOS, AOOS, SECOORA

Global Efforts:



Products:



Surface Currents Program: HF-Radar Network

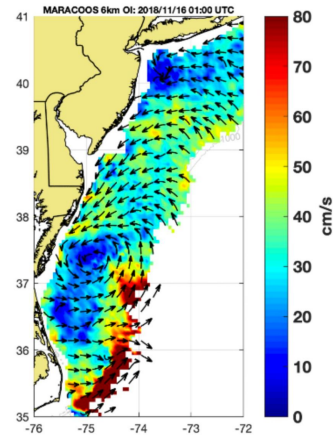


RATES: 5 High-res HFRs in Galveston Bay and Sabine Lake, TX

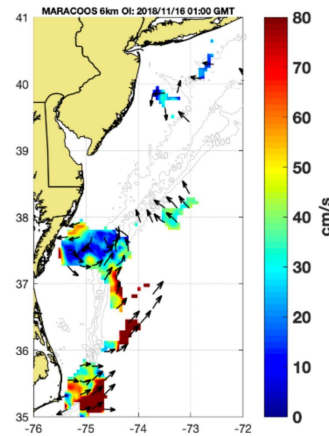


Retuning HFRs to FCC-approved radio broadcast frequencies

Total Map **With No** Interference



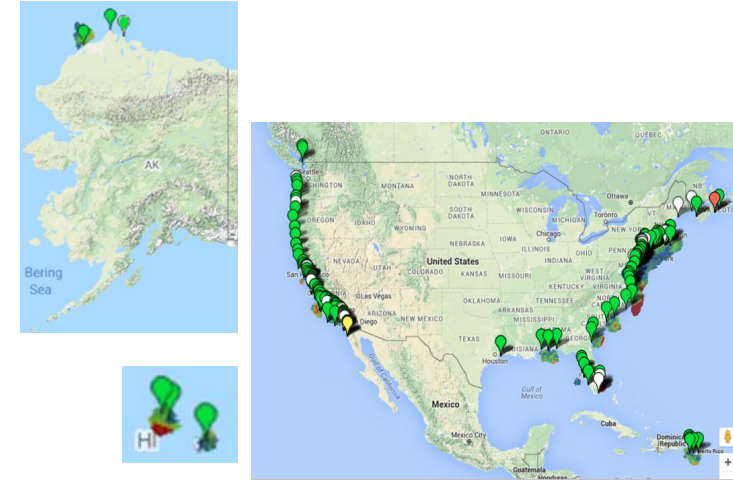
Total Map **With** Interference



Wind Turbine Interference mitigation software



Configuring HFRs to measure waves



Continued siting for new HFR installations



Expansion of HFR modeling for U.S. Coast Guard search and rescue

Ocean Technology Transition (OTT) Program

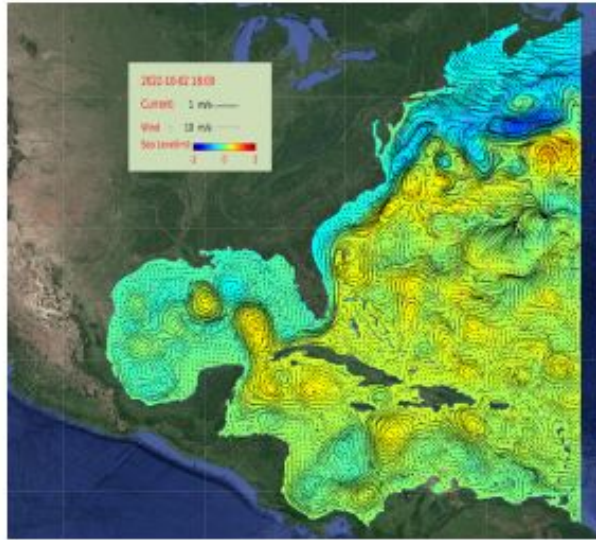


NOFO: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=342720>

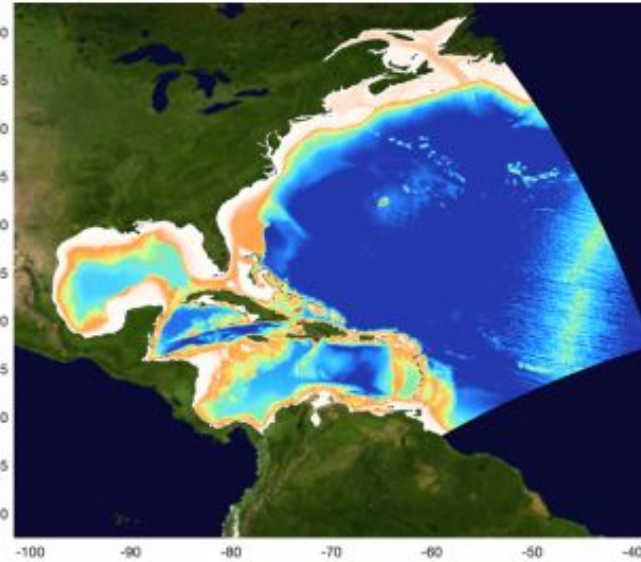
Review Panel	6–10 March 2023
Funding Decisions	April 2023



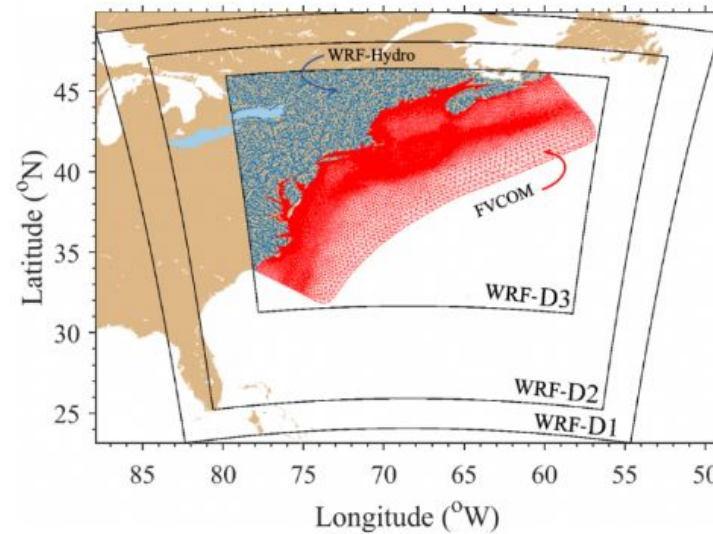
Coastal and Ocean Modeling



ECCOFS



SECOFS



NECOFS

Activities and Announcements



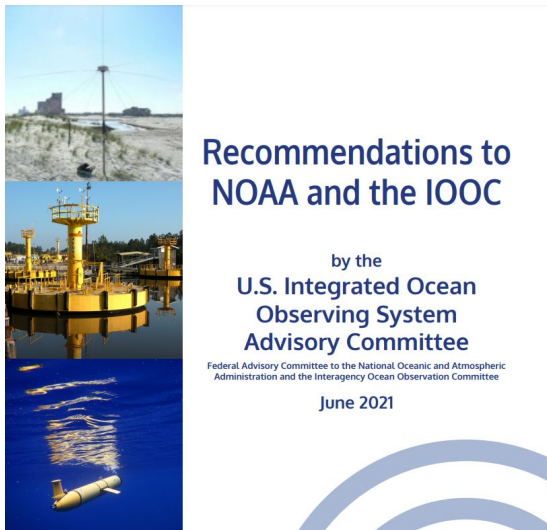
Last IOOS Fall Meeting -
Nov. '22 in Puerto Rico

Spring Meeting & Hill Visits

Mar. '22 in Washington, DC

Next IOOS Fall Meeting

- TBD, SCCOOS hosting
- Tentative 2025, AOOS



U.S. IOOS Advisory Committee

- [New recommendations](#) submitted to NOAA and IOOC on Climate Adaptation, DEIAJ+, and the New Blue Economy
- Next public meeting June 27–29, hosted by CeNCOOS (MBARI)

Thank You!!!

Congrats to GCOOS for:

- **GCOOS RCOS recertification!**
- **Funding from IIJA/BIL and disaster supplements**
- **New GCOOS DMAC subgroup staff**
- **Representing the RAs in the Ocean Visions Summit**

From left to right: Dr. William Burnett, Director of the NDBC; Katherine Foster, Naval Oceanographic Office; Dr. Jorge Brenner, GCOOS; Dr. Karen Grissom, Director of NDBC Mission Control; and Stephen G. Cucullu, Director of NDBC Operations.



Questions?