

SECOORA Annual Meeting

IOOS Association
Josie Quintrell
Dec 2, 2021

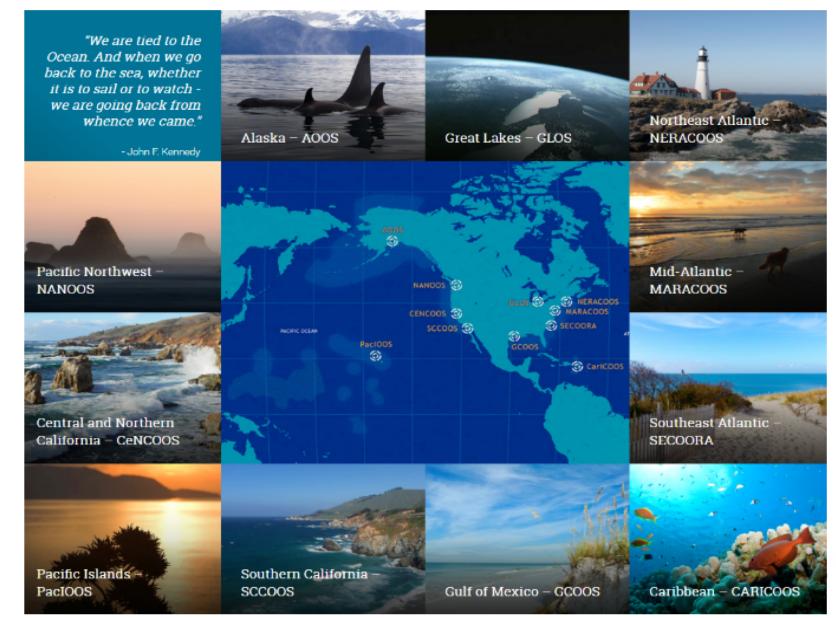
IOOS Association

- Advocacy
- Common Issues
- IOOS federal/nonfederal partnership
 - Administration
 - Congress
 - National Partners
- Emerging Issues
- Special Projects

Board Members from SECOORA:

- Debra Hernandez
- Michael Crosby

Observing our oceans, coasts and Great Lakes Providing information to those who need it, when they need it



Strategic Plan



STRATEGIC PLAN 2021-2026

ADOPTED OCT 2020

MISSION

The IOOS Association promotes regional and national ocean, coastal, and Great Lakes observing systems

VISION

The IOOS enterprise has the resources to measure and predict the coast, ocean and Great Lakes to deliver sustained information, support decision making, and bring outstanding value to society.



Increase funding for IOOS by 100 percent 2

Increase ability of IOOS to be responsive and innovative

3

Increase coordination across all IOOS agencies & regions



Increase diversity and inclusivity of network and partnerships 5

Increase visibility and reach of IOOS



Ensure the health and sustainability of IOOS Association



Appropriations

Fill the Gaps Campaign:

Inc regional funds \$8M over last 4 years

IA FY 22 request:

- Increase in RA Base
- Gaps funding for HFR, gliders and resilience
- HAB ON
- Coastal modeling testbed and OTT

	FY 21	FY22 IA Req	FY 22 Pres Bud	FY 22 House	FY 22 Senate	FY 22 Final
Regional IOOS	\$40.5	\$56.5	\$69.5	\$50	\$47	TBD
National IOOS	\$6.8	\$7.3	\$13.8	TBD	TBD	TBD
Total	47.3	63.8	83.3			

President's FY 22 Budget for IOOS:

Regional line – Up \$29 M (\$10m COMT, \$4m ecosystem,\$15m for Marine Life. IOOS Office - Up \$ 9M (data, marine life, costal modeling)

House - Regional IOOS Line Up \$9.5 M

Not less than \$3m for HAB observing

Senate - Regional IOOS Line Up \$6.5M

HFR, Gliders, Mooring, HABs



CR expires tomorrow

State of Play

3 funding bills in play:

- Senate Bipartisan
 Infrastructure bill (enacted)
- Reconciliation
- FY 22 Appropriations CR until tomorrow!

DEBT LIMIT

Raised by \$480 B, through
 Dec 3rd

NDAA

BIPARTISAN INFRASTRUCTURE (BIF; HR 3684) ENACTED

- \$150 M for coastal and ocean observing systems
 - \$100 M in Operations, Research and Facilities (ORF)
 - \$50 M in Procurement, Acquisition Construction (PAC)
- IOOS not specifically named but Congressional intent is for IOOS to receive funds
- NOAA has 90 days for spend plan

BUILD BACK BETTER (Budget Reconciliation – "soft infrastructure")

- House: Passed, \$6 B "conserve, restore, and protect coastal and marine habitats to increase climate resilience of coastal communities or sustain coastal and marine resource-dependent communities."
 - Final cut from \$3.5 trillion to \$1.75 trillion
 - NOAA cut from \$11.9 billion to \$8.2 billion
- Senate: TBD, additional cuts expected



Infrastructure - \$3b for NOAA over 5 years (Passed)

- \$150 M- Improved and enhanced coastal, ocean, and Great Lakes observing systems
- \$492 M National Oceans and Coastal Security Fund grants to improve resilience of coastal communities to flooding by restoring natural ecosystems.
- \$491 M- Marine, estuarine, coastal, or Great Lakes ecosystem habitat restoration
- \$492 M Coastal and inland flood and inundation mapping and forecasting and water modeling
- \$400 M Enhance fish passage by restoring barriers and technical
- \$25 M Data acquisition for soil moisture and snowpack
- \$200 M- Marine debris assessment, prevention, mitigation, and removal
- \$207 M Coastal Zone Management Act habitat restoration
- \$77 M- Habitat restoration through the National Estuarine Research Reserve System
- \$56 M Regional Ocean Partnerships
- \$50 M- Wildfire observations
- \$80 M Research supercomputing infrastructure for weather and climate model
- \$172 M Pacific Coastal Salmon Recovery



Spend Plan – Summary of Regional 5 yr needs



INFRASTRUCTURE SPEND PLAN

The Integrated Ocean Observing System (IOOS) enterprise has the resources to measure and predict the coast, ocean and Great Lakes to deliver sustained information, support decision making, and bring outstanding value to society.

Infrastructure Needs	Cost Estimate	Units 157	
HFR	\$27,403,037		
Glider	\$24,538,341	101	
Moorings	-	-	
Wave	\$10,705,520	68	
Met ocean	\$5,365,000	82	
Ecosystem	\$19,690,000	129	
Animal Sensors	\$7,952,160	273	
Water level sensors	\$3,825,760	282	
Cyberinfrastructure	\$13,333,200	11	
Drones, webcams	\$2,525,050	35	
Fixed stations	\$10,304,335	132	
Acoustic Arrays	\$2,710,000	56	
Other	\$8,567,500	45	
TOTAL	\$136,919,903	-	

Investing in the IOOS
regional observing
systems will stabilize,
modernize and enhance
delivery of the data and
information necessary to
ensure coastal
communities have the
information they need to
prepare and respond to
changing coastal
conditions, including
flooding, increased
harmful algal blooms and
extreme storms.



It's not just about infrastructure....

Coastal Resilience

Regional and community level information for preparing and responding to changing conditions such as:

- Flooding, inundation, weather extremes, and sea level rise
- Increased harmful algae blooms and other ecological stressors
- Impacts of extreme events such as hurricanes, marine heat waves, marine spills and rip tides

Coastal Economies

Coastal and Great Lakes information in support of local economies including:

- Observations to support public health and safety including drinking water quality, pollution, and ocean and beach conditions
- Support for fisheries, aquaculture and other maritimes industries
- Information for siting wind and other energy operations
- Sea state conditions for safe maritime operations

Service Delivery

IOOS Regions work with stakeholders and others to develop products and services such as:

- Tailored products that are specific to the unique characteristics of the region
- Federally- certified data integration centers for ready access to information
- Testbeds for developing new technologies and methodologies



Build Back Better (House language)

Section 70201. Investing in Coastal Communities and Climate Resilience.

\$6b over 5 years:

"to provide direct funding, grants, cooperative agreements, and technical assistance

to states, Tribes, the District of Columbia, nonprofit organizations, local governments, and institutions of higher education

for projects that conserve, restore, and protect coastal and marine habitats to increase climate resilience of coastal communities or sustain coastal and marine resource-dependent communities."

Funds may also be used for administrative expenses. None of the funds shall be subject to cost-sharing or matching requirements.



Build Back Better - Other NOAA Provisions (in House bill)

- \$1 billion over five years for habitat restoration for Pacific salmon and steelhead
- \$400 million over five years for marine fishery hatchery infrastructure
- \$500 million over five years for fishery stock assessments, electronic monitoring, and transitional gear research
- \$300 million over five years to repair/replace aging facilities
- \$200 million over ten years for enhanced reviews and stakeholder engagement
- \$2 million over five years for implementing the Seafood Import Monitoring Program
- \$200 million to "accelerate advancements in research, observation systems, modeling and dissemination related to weather, coasts, oceans, and climate."
- \$100 million for competitive climate research grants
- \$100 million for development of climate science information products
- \$100 million for research infrastructure and procurement
- \$20 million for contracts, grants, and technical assistance to improve public understanding of climate change
- \$200 million for high performance computing
- \$139 million for acquisition of hurricane hunter aircraft



Securing IOOS infrastructure support

- Congressional Outreach
 - RA outreach to key members on importance of infrastructure
 - Draft email, one page spend plan
 - SECOORA key members:
 - Sen: Graham, Rubio (appropriators)
 - House Crist (appropriator), Desoto, Hice, Posey, Castor, Buchanan, Wasserman Schultz, Diaz Balert, Price, Clyburn, Bishop
- Administration
 - Association met with Dr. Spinrad, Nicole LeBeouf, Kim Miller
 - Regional influencers stakeholders, partners
 - Contact NOAA, DOC or other Administration leaders

Time sensitive - NOAA sending spend plan to DOC in "next few weeks! "



Harmful Algal Blooms

IMPLEMENTATION STRATEGY FOR A
NATIONAL HARMFUL ALGAL BLOOM
OBSERVING NETWORK (NHABON)

JANUARY 2021





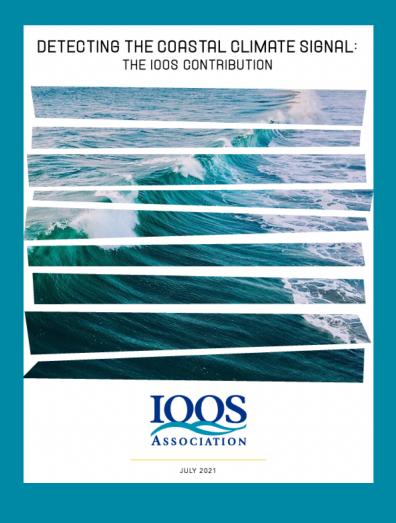




- HAB Observing Network FRAMEWORK (NCCOS and IOOS) (2019)
- FY 20 Congress provides \$1M for HAB observing network pilot project
- HAB Observing Network Implementation Strategy (2021)
- FY 21 \$2.5M for HAB observing network pilot projects, including SECOORA
- FY 22 (pending)
 - House mark \$3M
 - Senate mark no less than FY21
- HAB Observing Group
 - Brings together feds, non-feds
 - Webinar series



Detecting the Coastal Climate Signal



- Climate change is global but impacts vary regionally
 - Sea level, inundation, lake water levels
 - HABs, OA, hypoxia
 - Marine heat waves
 - Extreme storms
- 5 broad recommendations:
 - Expand coastal obs
 - Modernize and recap
 - Technology innovation
 - Data integration
 - Equitable services
- Climate Dialog series (on-going)
- Workshop to develop recommendation for improving coastal climate observations products

IOOS Meetings

- Association Annual Meeting
 - Elected New Officers:
 - Gerhard Kuska, Chair
 - Jan Newton, Co-Chair
 - Henry Ruhl, Treasurer
 - Julio Morell, Secretary
 - Debra Hernandez ,Past Chair
- Spring Meeting
 - March 8-10, 2022
 - In person, in DC
 - Congressional visits
- Fall 2020
 - Community Meeting



- Fall Meeting VIRTUAL (again!)
- Presentations Dr. Spinrad NOAA Administration Ms. Nicole LeBeouf, NOS AA
 - IOOS plays roles in Dr. Spinrad's top priorities
 - Climate, new blue economy and equity
- Marine Life Discussion matching national needs with on-the-ground (ocean?) needs



CARAID Award

Celebrating vision, coordination and collaboration



Dr. Libby Jewett, NOAA OA Program 2021 CARAID Award recipient



THE CARAID AWARD

Recognizing outstanding contributions to ocean and coastal observing

Seeking Nominations for 2022 Award

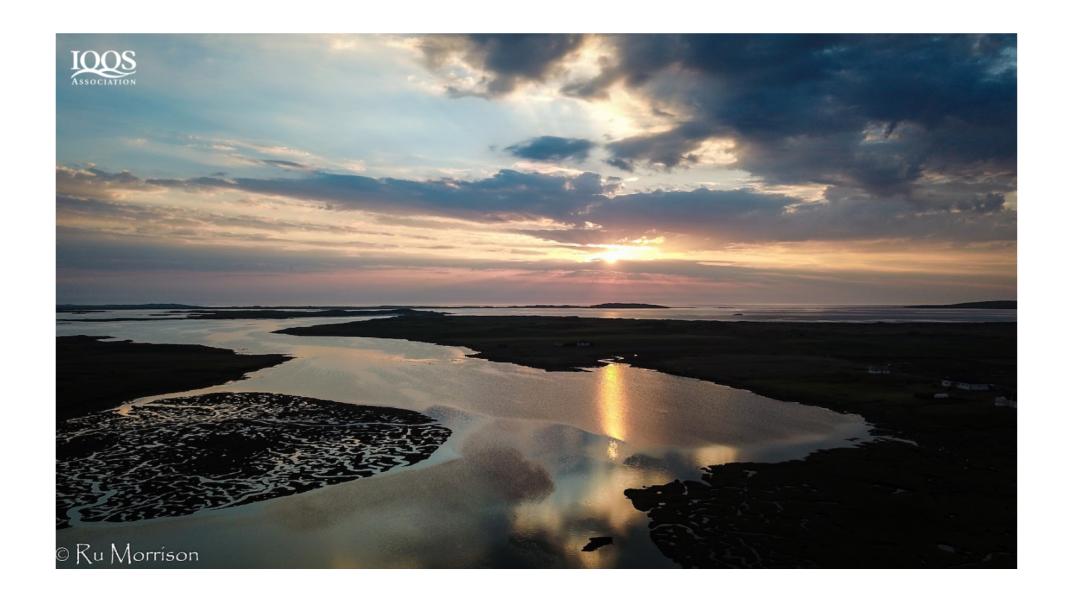
About

The IOOS Association created the Caraid Award in 2020 as an annual award to recognize those who have made outstanding contributions to observing and understanding our oceans, coasts and Great Lakes through vision, leadership, friendship and collaboration. The word "Caraid" is a Scottish Gaelic word, meaning "care" or "love" and is pronounced like "courage." These are the attributes - caring and the courage to do what matters - that makes IOOS work. The first recipient of the award was Dr. Ru Morrison whose Scottish heritage and collaborative nature inspired us to learn about Caraid, not only as a word, but also as an ethos he brings to all of his work.

NOMINATIONS SOUGHT FOR 2022 CARIAD AWARD DEADLINE 12/10/21



Questions?





Diversity, Equity Inclusion and Accessibility

Ashley Peiffer, 2022 IOOS DEIA Fellow



- Ashley will work with RAs and IOOS Office:
 - to amplify existing and planned efforts to improve DEIA and service equity,
 - Research and recommend best practices for improving service equity including codevelopment
 - Training opportunities for staff,
 - Workforce development opportunities and support,
 - Seek partnerships, and
 - Identify next steps including possible funding opportunities



RA Biological Activities and Needs

Impact of changing conditions on life in the coastal oceans and Great Lakes

Impact of multiple stressors – OA, HABs, hypoxia, biodiversity

Users:

Indigenous communities, commercial, recreational and subsistence fisheries, aquaculture,

managers, etc

Observations:

- Ecosystem moorings, ship transects, gliders, acoustic tags
- New technology IFCBs, eDNA, BGC sensors
- Data and Modeling
 - AI, machine learning to help with large data sets
 - Data standards for biological observations

Products

- Forecasts HABs, OA, fisheries
- Soundscapes
- Visualizations
- Products for remote communities

