

IOOS Association: *Legislative Update*

IOOS FAC

08/5/2020

AOOS
Alaska • aoos.org

NANOOS
Northwest • nanoos.org

CeNCOOS
Central/Northern California • cencoos.org

SCCOOS
Southern California • sccoos.org

PacIOOS
Pacific Islands
pacioos.org

GLOS
Great Lakes • glos.us

IOOS Headquarters ★
(NOAA)

GCOOS
Gulf Coast
gcoos.org

NERACOOS
Northeast • neracoos.org

MARACOOS
Mid-Atlantic • maracoos.org

SECOORA
Southeast • secoora.org

CARICOOS
Caribbean
caricoos.org

FY 21 Appropriations

House Mark:

- \$40.5 M
- Up \$1.5M from FY20
- \$2 for HAB observing netw

Senate: TBD

House Report Language

- The Committee supports IOOS's efforts to expand its use of underwater gliders and encourages NOAA to fill critical gaps in the current surface mapping system and to ensure streamlined access to data for weather forecasting, detection of ecological phenomena, and safe maritime operations.
- The Committee provides \$2,000,000, from within the funds allocated for IOOS, to continue and expand the pilot program launched in fiscal year 2020 for IOOS to enhance the nation's capacity for monitoring and detection of Harmful Algal Blooms (HABs) by leveraging the expertise of the IOOS regional associations—including through expanding the deployment of in-situ observing assets—in order to improve HABs warning and forecast accuracy. IOOS is directed to coordinate with the National Centers for Coastal Ocean Science on the implementation of these funds. "

ICOOS Reauthorization

Senate bill passed!!

House: *HR 729 – passed House 12/2019*

- Straight reauthorization with 3 amendments:
 - Allows Feds to serve on RA Board
 - Clarifies language regarding interagency financing
 - Authorization: \$47.5 M for FY21-FY25

Senate: *S 914*

- Updated language and purpose
- Add glider, HFR studies and OA
- Authorization levels:
 - FY21 \$48M
 - FY22 \$50M
 - FY23 \$52M
 - FY24 \$54M
 - FY25 \$56M

COVID Impacts

- Highlighted vulnerability of system to interruptions
 - Request to build resiliency to system: Aging infrastructure
- ## Economic Stimulus - \$25M
- 'In the pipeline projects' for maritime transportation, weather, sea level rise, ecological health (HABs), fisheries and coastal hazards.

Immediate Needs for Resiliency: \$25 million for restoring, sustaining, and building resiliency for critical observations in support of weather forecasting, safe and efficient marine operations, and search and rescue missions.

IOOS works as an integrated system of a variety of observing platforms, but to restore mission critical operations impacted by COVID-19 and continue protecting lives and livelihoods, we request support specifically for our radars, buoys, and gliders.

This includes:

- \$12 million for high frequency radars
 - Supporting maritime commerce and at-sea safety
- \$7 million for gliders
 - Supporting accurate weather forecasting including hurricanes
- \$6 million for coastal moorings
 - Supporting accurate weather forecasting and real-time data for weather forecast offices



Figure 1. IOOS operates the nation's only network of land-based high-frequency radars (pictured above) that provide continuous, real-time mapping of the speed and direction of surface currents in coastal waters.

Longer Term Resiliency

COVID-19 further exposes gaps and weaknesses in our infrastructure and their negative impacts on life and the economy. For the IOOS system to achieve full resiliency, estimated costs are \$75.65 million over the next 1-3 years.

The estimated cost for full resilience of the integrated system, by subsystem is:

- \$32 million for high frequency radars
- \$11.57 million for gliders
- \$25 million for coastal moorings
- \$5 million for shore stations, including water levels and met stations
- \$2.15 million for modeling/computing capacity

In support of the U.S. Integrated Ocean Observing System

Alaska (AOOS) • Caribbean (CariCOOS) • Central and Northern California (CeNCOOS) • Great Lakes (GLOS)
Gulf of Mexico (GCOOS) • Pacific Islands (PacIOOS) • Mid-Atlantic (MARACOOS) • Northeast-Atlantic (NERACOOS)
Pacific Northwest (NANOOS) • Southern California (SCCOOS) • Southeast-Atlantic (SECOORA)

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BLUE GLOBE ACT

Bolstering Long-Term Understanding and Exploration of Great Lakes, Oceans, Bays, and Estuaries

- Data management and monitoring
- Illegal fishing
- Workforce development
- CI on emerging technology
- Directs NOAA to better understand of needs of indigenous communities
- Creates an ocean innovation prize
- NAS study on ARPA-O
- IOOC- international coordination, supercomputing capacity and support cross-agency coordination for data collection

HR 7450

**Rep Crist (D-FL) and
Posey (R-FL)**

**National Centers of
Excellence in HAB
Research,
Prevention,
Response and
Mitigation.**

The bill would be strengthened by:

- 1) acknowledging the essential delivery of critical, real-time HAB information that already exists in the regions through the IOOS partnership with NOAA's NCCOS to create sustain observing networks.
- 2) envisioning Centers of Excellence collocated with the IOOS regional offices and partner research institutions to avoid duplication of effort, make efficient use of resources, and prevent confusion among stakeholders about multiple regional entities addressing similar issues; and
- 3) building on existing IOOS capacity for data management by the creation of a national HAB and hypoxia data portal.