

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

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

Appropriations



| | FY 12 Spend Plan | FY 13 Spend Plan | FY 14 Enacted | FY 15 Enacted | FY 16 Enacted | FY 17 Enacted | FY 18 Enacted | FY 19 Enacted | FY 20 House | FY 20 Senate |
|---|------------------------|------------------------|------------------|------------------|------------------|------------------|--|--|----------------|-----------------|
| Regional IOOS Total | \$23 m | \$26.5m | \$28.5m | \$29.5m | \$29.5m | \$30.7 m | \$35m | \$38.5m | \$40.5m | \$38.5m* |
| <i>National network of regional observing systems, gaps in radars and gliders</i> | <u>\$22m</u> | <u>\$23.5m</u> | <u>\$24.3m</u> | <u>\$24.5 m</u> | <u>\$24.5m</u> | <u>\$25.2m</u> | <u>\$29.5m</u> <i>includes \$4.3m HFR and gliders</i> | <u>\$34.2m</u> <i>Includes \$1.5m for ROP</i> | TBD | |
| <i>Marine Sensor Innovation Grants, Modeling Testbed, Sensor Verification</i> | <u>\$1m</u> | <u>\$3m</u> | <u>\$4.2m</u> | <u>\$5 m</u> | <u>\$5m</u> | <u>\$5.5m</u> | <u>\$5.5m</u> | <u>\$5.5m</u> | | |
| U.S. IOOS Program Office* | \$6.4m | \$5.9m | \$6.6m | \$6.6m | \$6.6m | \$6.6m | \$6.7m | \$6.7m | TBD | TBD |
| Total U.S. IOOS | \$29.4m | \$32.4m | \$35.1m | \$ 36.1m | \$36.1 m | \$37.3 m | \$41.7 m | \$45.2m | TBD | TBD |

\$1.5m for ROP moved to OCM so this would be an increase for IOOS Senate mark includes language for \$1m for a HAB operational network. Both the

FY 21 Request - Continue Gaps Campaign



INTEGRATED OCEAN OBSERVING SYSTEM - IOOS

Saving Lives, Protecting Health & Promoting Commerce



Image courtesy of NOAA

Mapping Surface Currents



Image courtesy of USC

Seeing Underwater with Coastal Gliders



Image courtesy of Ben Hollings, Blue Ocean Monitoring

Reauthorization

SENATE



Senators Wicker and Cantwell
sponsored S 914
**Coordinated Ocean Observations and
Research Act of 2019**

House

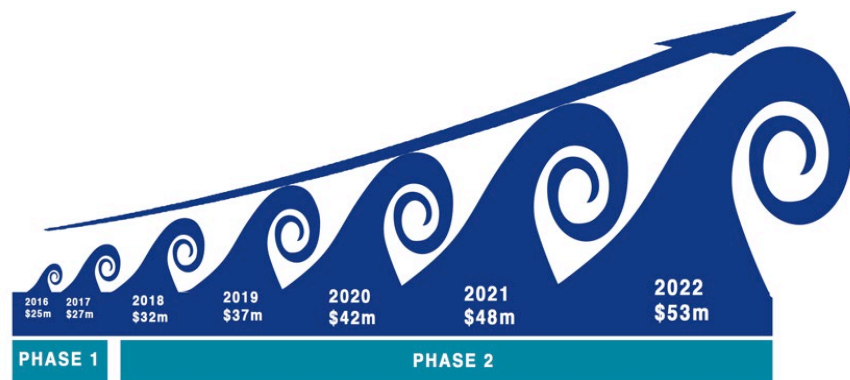


HR 729
**Coastal and Great Lakes
Communities Enhancement Act**
PASSED HOUSE 12/12/19

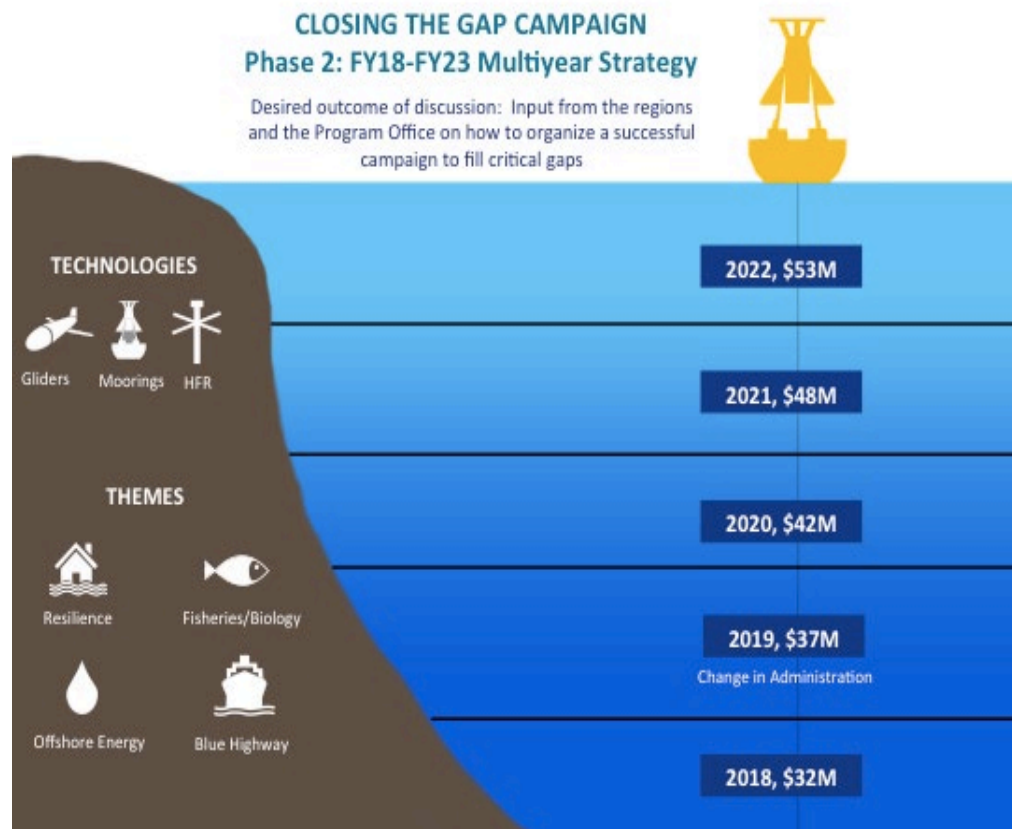
PLANNING FOR FY21-25 NATIONAL & INTERNATIONAL PERSPECTIVES

- Closing the Gaps
- OceanObs'19 follow-up
- UN Decade of the Ocean
- White House Summit
- Presidential Memo on Ocean Mapping
- NOAA's S&T Priorities
- IOOS Grand Challenges

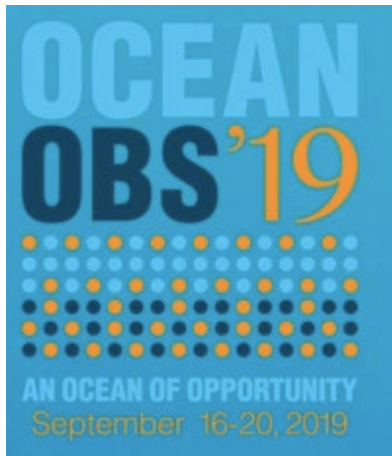
Closing the Gaps: What next?



- Scalable campaign
- Tangible outcomes
- Align with Administration Priorities
- Filling targeted gaps in:
 - HR Radars
 - Gliders
 - And Moorings?



OceanOBS'19 FOLLOW-UP



IOOS 20th Celebration!

UN Decade of Ocean: 2021-2031



**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development

Clean Ocean
Healthy resilient ocean
Safe ocean
Predicted ocean
Sustainable & productive ocean
Transparent & accessible ocean

A Vision for the Decade

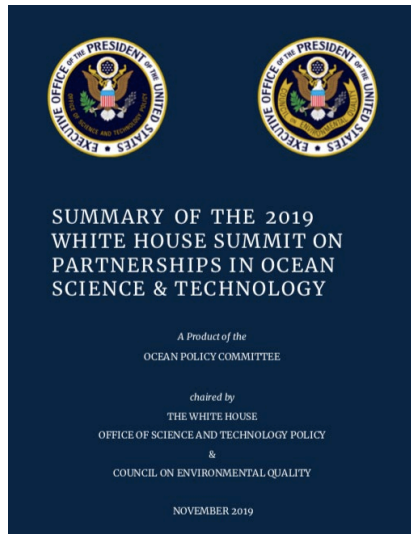
Develop scientific knowledge, build
infrastructure and foster partnerships
for a sustainable and healthy ocean

**The Ocean
We Need
for the
Future
We Want**

Proposal for an International
Decade of Ocean Science for
Sustainable Development
(2021-2030)



White House Summit



- Exploring the Ocean
- Conserving Living Marine Resources
- Protecting Coastal Health and Safety
- Sustaining Ocean Observations
- Promoting Food Security
- Enabling Ocean Energy
- Characterizing Ocean Life
- Leveraging Big Data

Takeaways:

- US poised to lead new era of bold ocean S&T
- Partnerships across academia, philanthropy, the private sector, and government are essential to advancing ocean S&T
- A collaborative and dynamic strategy for partnerships in ocean S&T will coordinate, focus, and catalyze a national effort

Ocean Mapping

- **Nov 19 Presidential Memorandum For Mapping US EEZ AND Shoreline & Nearshore of Alaska**
- **Develop national strategy for mapping, exploring & characterizing US EEZ**
- **Within 180 days develop strategy for mapping Arctic & Sub-Arctic shoreline & nearshore of Alaska**
- **Work with state and AMEC**

NOAA's Science and Technology Priorities

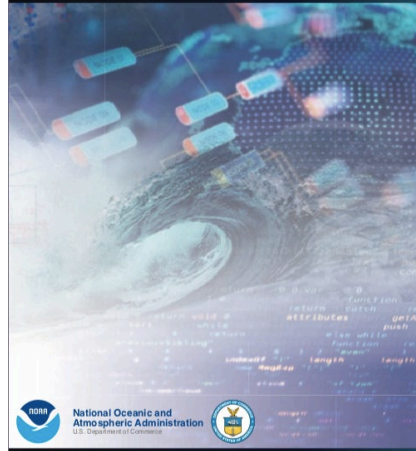
Draft NOAA Unmanned Systems Strategy

Maximizing Value for Science-based Mission Support



Draft NOAA Artificial Intelligence Strategy

Analytics for Next-Generation Earth Science



Draft NOAA Cloud Strategy

Maximizing the Value of NOAA's Cloud Services



Draft NOAA 'Omics Strategy

Strategic Application of Transformational Tools



**IOOS Association Submitted comments due
December 16th**

IOOS Grand Challenges for the next Decade

- Ensure that all US coastal communities have accurate and timely storm surge and water level predictions
- Provide indicators and forecasts on the status and health of the oceans and Great Lakes, including protected species, fisheries, water quality, HABs, OA, hypoxia and other parameters, on a regular basis
- Develop periodic, routine assessments of species richness and biodiversity (start with biology and ecosystem EOVs) throughout the US coast, inland oceans/Great Lakes, and EEZ
- Accelerate the power of innovation in technologies, techniques, synthesis and forecasting to provide knowledge for action, including areas of modeling, sensor development, eDNA, machine learning, IT advances, and data visualizations
- Provide rapid and seamless access to data and information that includes the integration of data across disciplines and from the regional to national to global scales
- Contribute to global mapping initiatives
 -

Questions for the AOOS Board

- What are AOOS priorities?
- What do we want to accomplish in next decade?
- How can we use these initiatives to further these goals?