# U.S. IOOS Office Updates

Carl Gouldman
December 2, 2021





### FY 2022 IOOS Office Priorities

# Coastal Observing, Predicting, and informing in support of Equitable delivery of Climate Services, Economic Development and Coastal Resilience

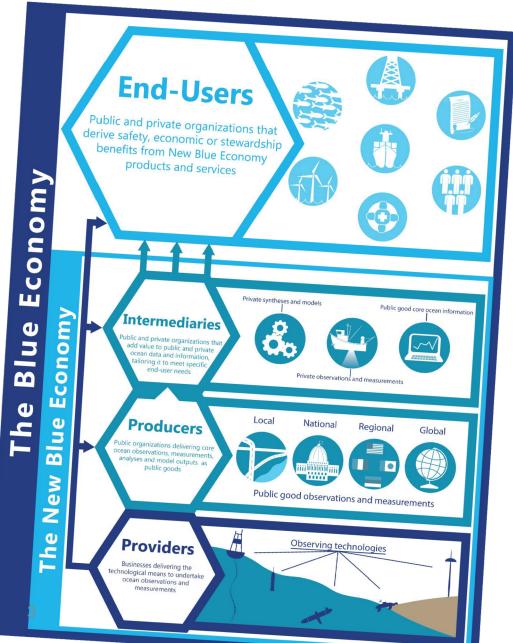
Continue diversifying, enhancing, and increasing accessibility of IOOS products and services for all Americans to meet customer needs

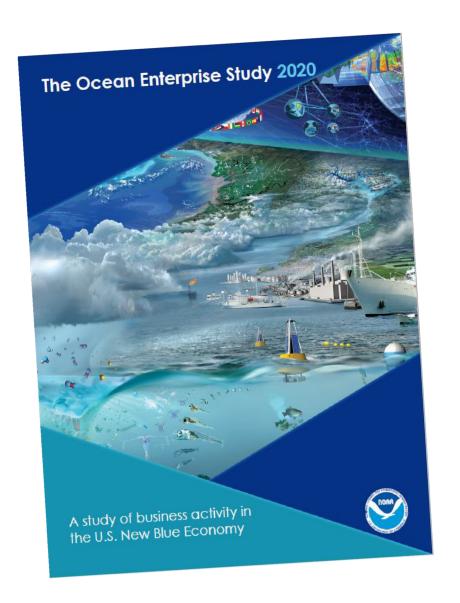
- Climate Data & Services Detecting the climate signal at the coast and understanding its manifestations
- Improved Coastal Resilience including coastal modeling / predictions Enhance ecological forecasting supported by observing, science, and service delivery
- Economic Opportunities healthy blue economy and growing "new blue economy" and services in the face of coastal hazards

### **Richard Spinrad Testimony to Congress:**

https://www.commerce.senate.gov/services/files/5BBBF383-0FC2-42DB-BF76-39F1B3AC2673

# THE OCEAN ENTERPRISE





### NOS Provides Ocean Predictions For Marine Navigation & Coastal Hazards From Surge

# Safe, Efficient Navigation Schematic illustration of S-1XX and S-4XX layers (IHO.int)

### **Surge and Inundation**



Commons by chris\_j\_wood., Public Domain, https://commons.wikimedia.org/w/index.php?curid =4885372

#### **Total Water Level**



NWS Potential Storm Surge Flooding Map for Hurricane Dorian (NowCOAST - 9/2/2019)

### Community Coastal & Ocean Modeling Activity Overview

- Community Modeling Strategy 2017 Journal of Operational Oceanography
- NOS Vision established 2021
- Community Modeling Workshop October 2021
- NOS Modeling Strategy Draft in early 2022

### A Vision for NOS Modeling

### Protecting our coastal communities and the nation's economy

- SAFE, EFFICIENT MARINE NAVIGATION
- PROTECTING HUMAN HEALTH
- COASTAL RESILIENCE AND RISK REDUCTION
- IMPROVED MAPS AND COASTAL MANAGEMENT
- HAZARDOUS SPILL RESPONSE & SEARCH AND RESCUE
- MANAGING COASTAL AND MARINE LIVING RESOURCES IN CHANGING CLIMATE

















A gathering of government, academic, and private industry to enhance collaboration and make the NOAA and NOS Modeling Vision, along with the visions of external partners, a reality

92 Cross line office NOAA scientists, 96 from academia, over 10 from the private sector and representation from each IOOS Regional Association

# IOOS Advisory Committee updates

- Welcome new members (pending final onboarding)
  - Eoin Howlett, Tetra Tech
  - Julio Morell, CARICOOS
  - Catherine Edwards, Skidaway Institute of Oceanography
  - Dan Costa, University of California, Santa Cruz
  - Jason Biggs, University of Guam



- 2021 Recommendations Report available now!
  - https://cdn.ioos.noaa.gov/media/2021/06/Recommendations-Report\_FINAL.pdf
- Engagement opportunities with RAs:
  - Public meeting November 29th and December 6th

### IOOS Marine Life Program

<u>VISION</u>: To ensure a to ensure long-term, sustained marine life observation capability

#### **COMPONENTS**

- Support existing and new marine life observations
- Expand existing national cyberinfrastructure
- Add management and dedicated data handling positions
- Continue the successful interagency competitive NOPP process



<u>APPROACH</u>: Maintain and expand efforts in the IOOS Regions and marine life observing networks; align and respond to regional requirements as well as national priorities



### Initiatives to watch

- IOOS association et al. 'Detecting the Coastal Climate Signal' and webinar series
- IOOS release by Nov. 2021 of **The Ocean Enterprise Study 2020**
- NOAA 'Service Delivery Framework' Cross NOAA framework just like IOOS RA engagement with stakeholders to understand needs

NOAA Climate Council & Weather, Water, and Climate Board NOAA Modeling Board and UxS Exec. Oversight Board

- Precipitation Prediction Grand Challenge connect to Coastal modeling and coupling with National Water Model
- Climate and Fisheries Initiative IOOS Observing and Modeling
- Coastal Resilience and Climate timescales NOS and IOOS observations, modeling, and decision support
- Climate and Information Services for the Public (Release in October 2021 response to E.O. 140008 sec 211(d). (IOOS table of services in the Appendices)

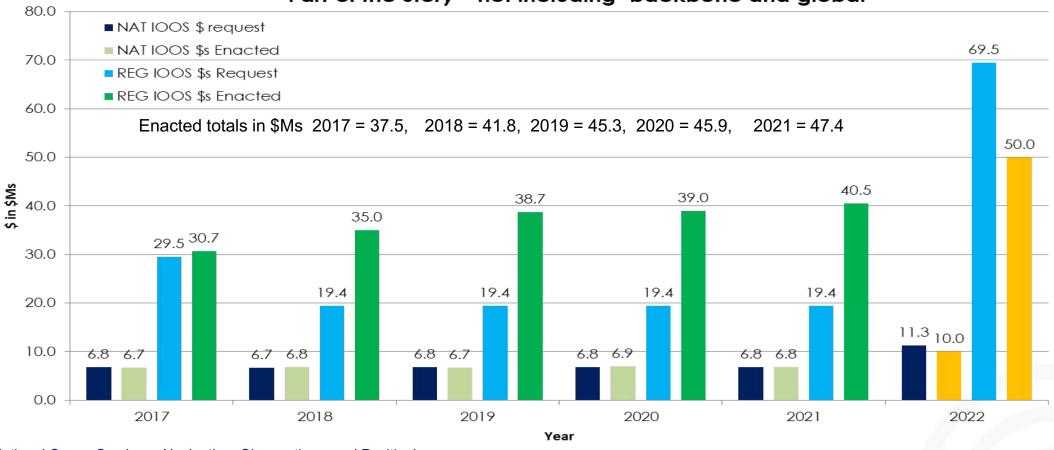


### Thank You!!!

- Thank you SECOORA team for your interest in pursuing new marine life observing projects, and linking these to resource manager needs on the ground.
  - Appreciate your creativity and the dialogue we've had around what's feasible and worth pursuing!
- Thank you (and congratulations!) Abbey Wakely for your role as the Director of Communications - working to promote SECOORA within the region and through the RA Communications WG.

# U.S. IOOS Enacted and President's Budgets FY17-22

# 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

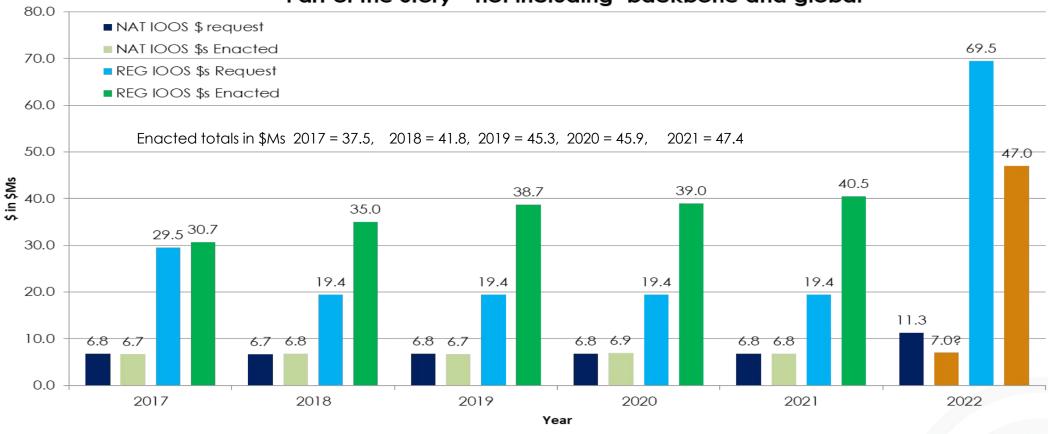
•'Request' = the President's Budget Request

"Org/Yellow = 'House Mark' ~\$10M & \$50M



### U.S. IOOS Enacted and President's Budgets FY17-22

### 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 -



# Continual Resolution/hurricane supplemental



### FY22 Infrastructure Bill

- •ORF (Operations, Research, and Facilities) \$100,000,000 shall be for supporting improved and enhanced coastal, ocean, and Great Lakes observing systems. (spread over 5 years)
- •PAC (Procurement Acquisition and Construction) \$50,000,000 shall be for coastal, ocean, and Great Lakes observing systems. (spread over 3 years)

FY22 Reconciliation Bill - another opportunity by Congress to support ocean, coastal, and Great Lakes observing systems and the benefits that they provide the nation.

### FY22 appropriations Reg.

- House mark FY21\$40.5+\$9.5 = \$50M
- •Senate mark FY21\$40.5+\$6.5 = \$47M

# What are we doing RIGHT NOW....

- H.R.3684 Infrastructure Investment and Jobs Act
- Waiting for the Committee Mark and Reconciliation bill
- CURL Developing a tool/resource to help us understand our funding needs, priorities, and justifications as to why we need these funds
- Scenario planning IOOS Office is mapping out different scenarios and how we will be able to move funds quickly

and efficiently



# Questions?