



SECOORA

Southeast Coastal Ocean Observing
Regional Association

Carl Gouldman, IOOS Program Update
June 19, 2019



IOOS | EYES ON THE OCEAN™



U.S. IOOS: Program Overview

Partnership effort that leverages dispersed national investments to deliver ocean, coastal and Great Lakes data relevant to decision-makers.

Global Component

US contribution to Global Ocean Observing System (GOOS)

1 of 15 Regional Alliances of GOOS



The Global Ocean Observing System



National Component

17 Federal agencies



Regional Component

11 Regional Associations

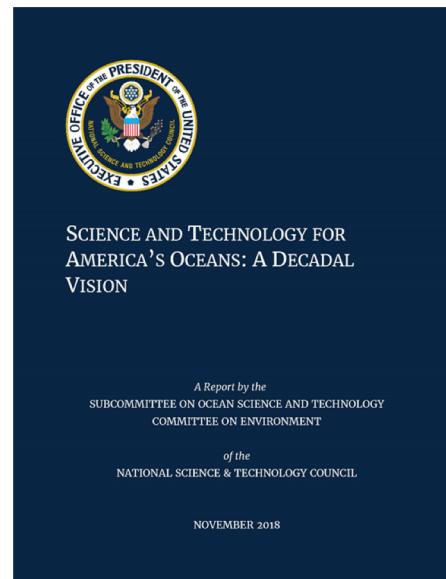
Stakeholder driven

Academia, state/local/tribal government, private industry



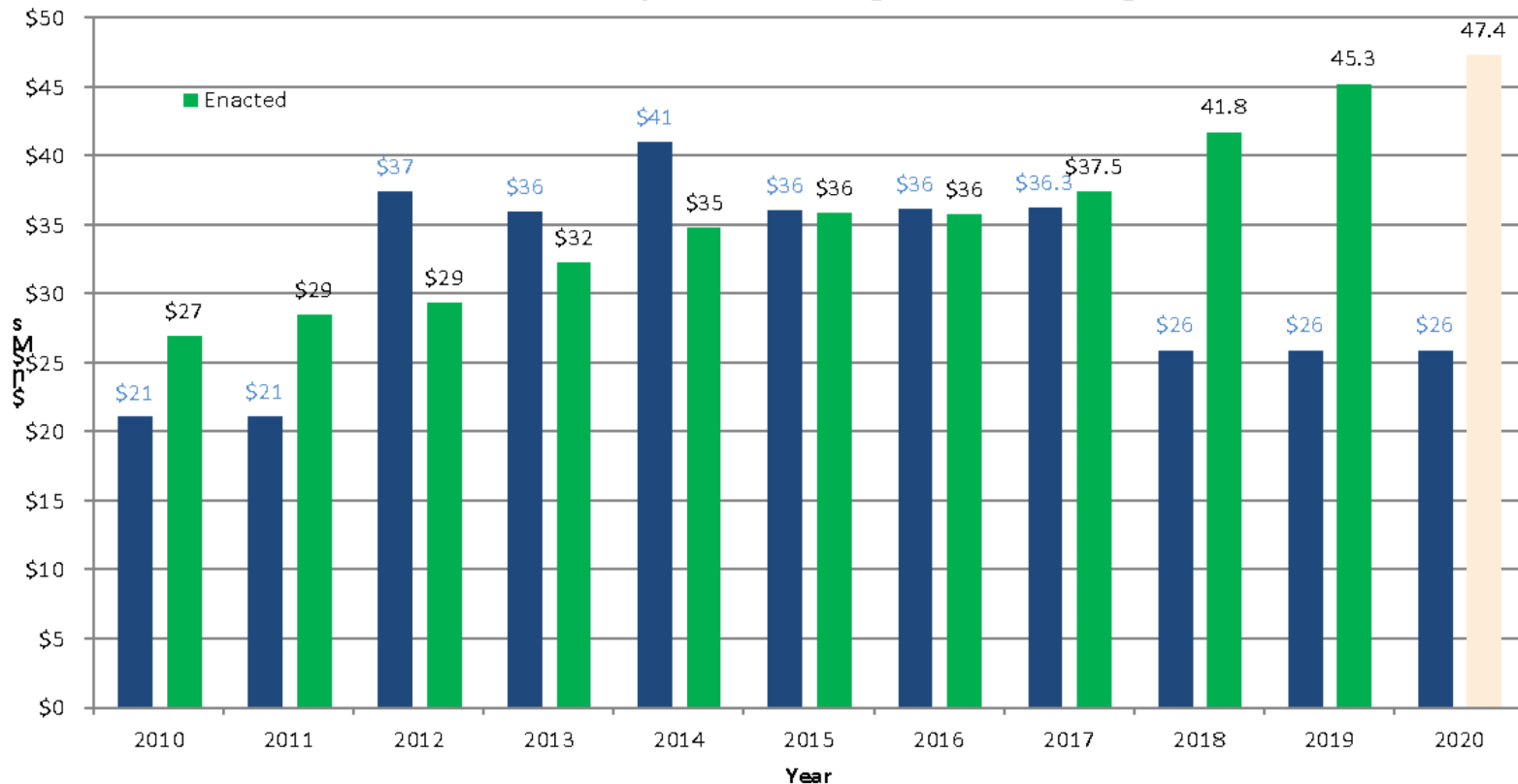
Looking forward - importance of the ocean

- OceanObs'19 - Regional - Coastal - Global
- Essential Ocean Variables and Communities of Practice
- White House (OSTP) Science and Tech for America's Oceans: A Decadal Vision
- UN Decade of Ocean Science for Sustainable Development
- US IOOS 20th Anniversary Kick Off at Ocean Obs '19



U.S. IOOS Enacted and President's Budgets FY12-20

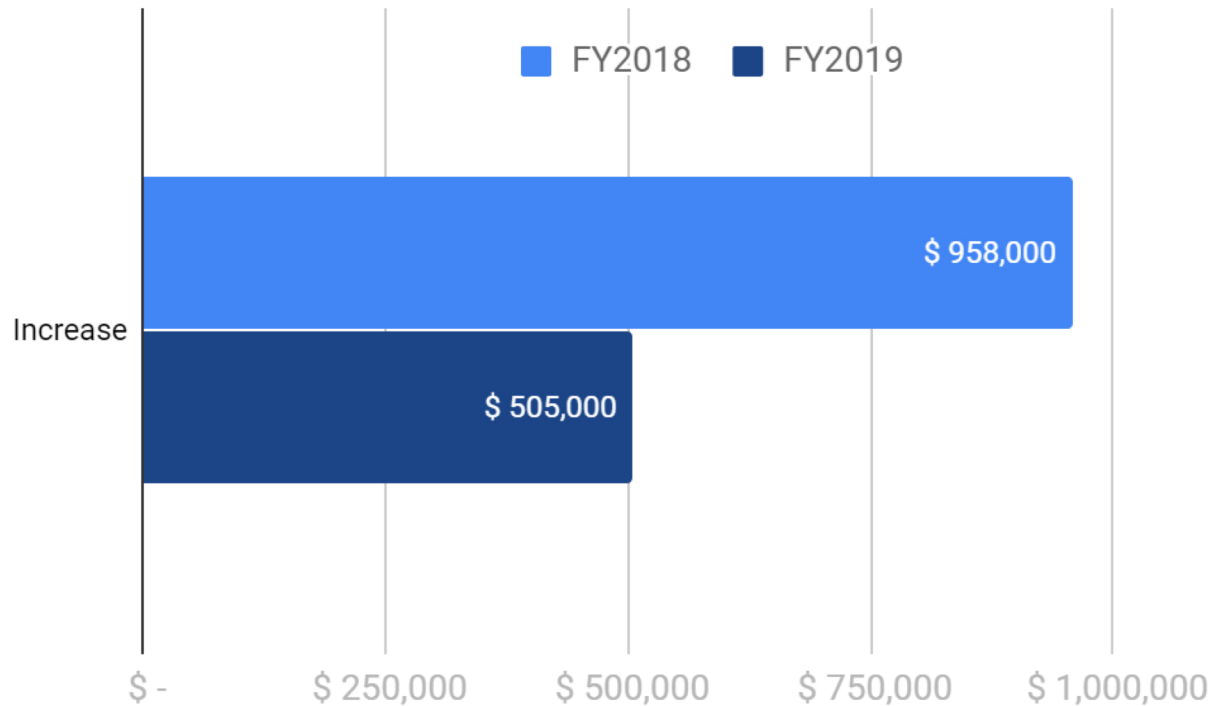
NOS IOOS Request & Appropriation History
Part of the Story – not including 'backbone and global'



NOAA National Ocean Service
Navigation, Observations, and Positioning: 'National IOOS' component FY19 Omnibus
\$6.8M & 'Regional IOOS Observations' \$38.5M [\$1.5M Reg. Ocean Partnerships]
Estimated Enacted levels are 'post rescission' totals for each year
'Request' = the President's Budget Request
FY20 House Mark is first, next is Senate Mark, then Conference...

SECOORA increases of \$1.4M / 2 years

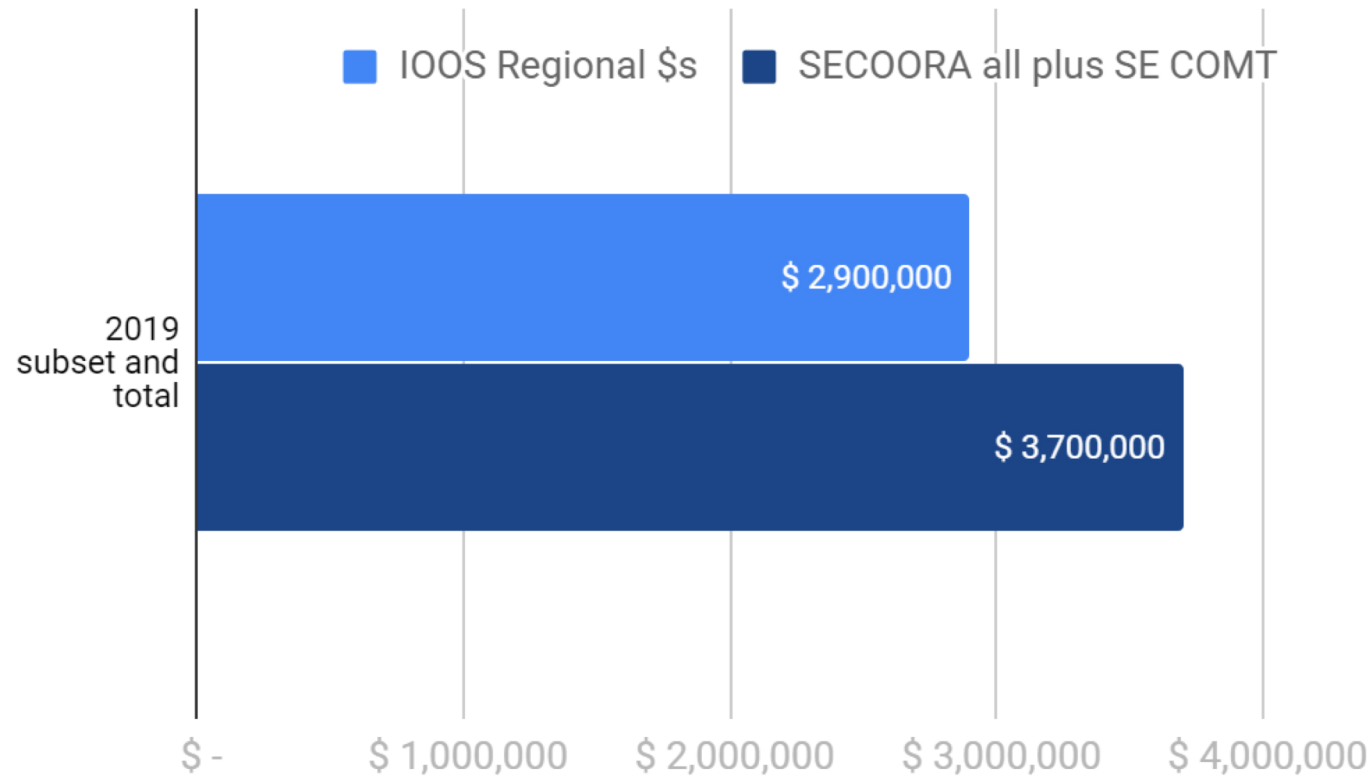
SECOORA FY2018 and FY2019 'fill the gaps'



- Partnering with NOAA & IOOS regions to
 - expand HF Radar network and fill gaps
 - deploy gliders to collect real-time data on Hurricanes and other missions

SECOORA leveraging IOOS Regional \$s

SECOORA FY2019 Estimate of 'All' \$s



- Snapshot estimate of IOOS Regional \$s and other funds coming to SECOORA region (COMT - Blanton, ATN, OA, Reg Ocean Partnerships, bio, etc.)
- Not including Hurricane / disaster supp \$s

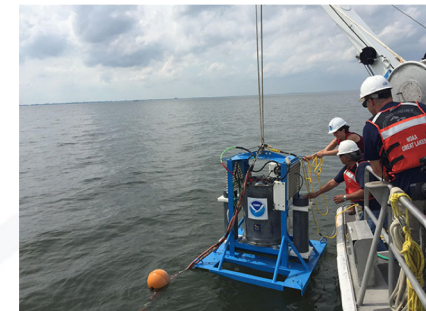
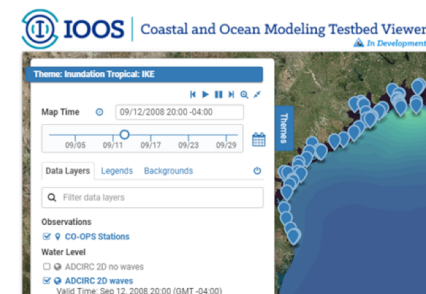
FY2019 IOOS Highlights

- **Blue Economy**
- **Customer focus and stakeholder outreach**
- **ICOOS Act reauthorization**
- **NOAA Weather Act & NOAA Water Initiative**
- **CENOTE Act 2018 (Commercial Engagement Through Ocean Technology Act of 2018)**
- **IOOS Advisory Committee**

- **Filling gaps +\$7.5M:** Surface Currents, Gliders, Streamlined Access to observation information
- **Biology and Harmful Algal Bloom Observing**
- **Interagency - ATN, MBON, Sound, etc.**

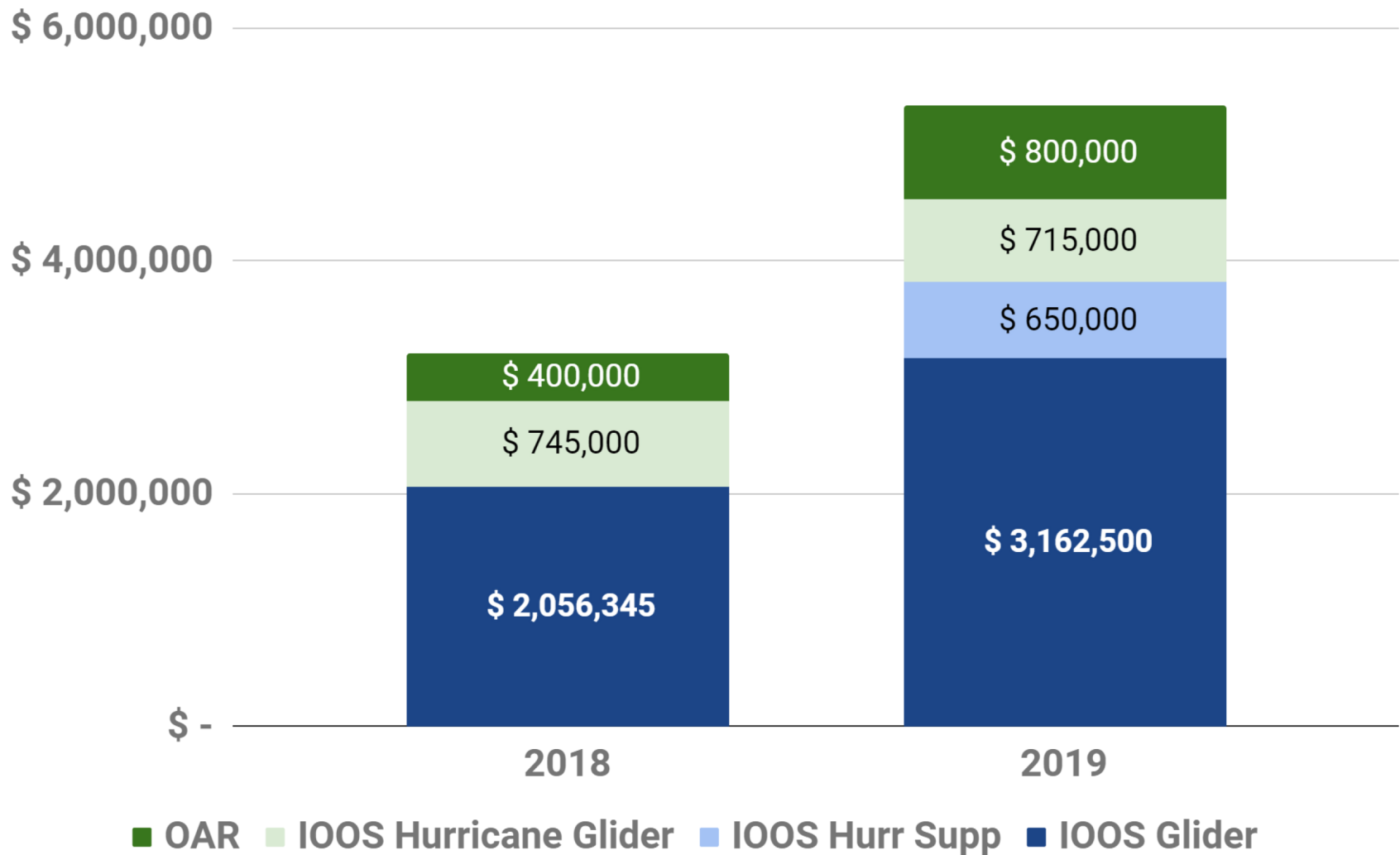
Research and Development

- **Ocean Technology Transition** – new FFO for award in FY2020
- **Coastal and Ocean Modeling Testbed COMT** - Coastal / Ocean /Water Modeling, Forecasting, and Prediction
- **ACT** workshops for IOOS RAs and OAR Labs and Cooperative Institutes

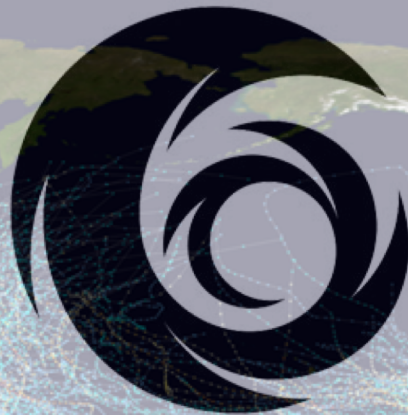


IOOS & co. gliders 2018 - 2019

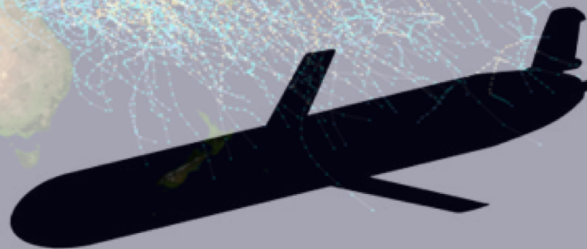
2018 & 2019 Estimated IOOS Glider Funding w/ OAR



Storms are coming



STORMS GATHER
AND THE WATCH BEGINS



hurricane intensity forecasting team

Storms gather and now our watch begins

**Storms gather and now our watch begins ...
Hear my words and bear witness to my
VOW**

**It shall not end until batteries fail
I bring ocean data through darkness
I am a watcher under waves
I am a drone that guards the realm
I bring our ocean to models for this
season and seasons to come.**



Adapted from adaptation by HBO Game of Thrones (Song of Fire and Ice: George R. R. Martin)