



Directorate for Geosciences
Division of Ocean Sciences



Terry Quinn
Division Director
NAML 2020

**COVID-19
Update**



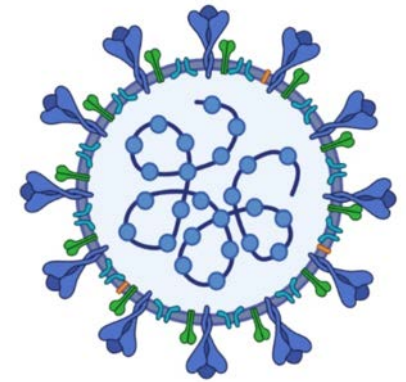


NATIONAL SCIENCE FOUNDATION
2415 EISENHOWER AVENUE
ALEXANDRIA, VIRGINIA 22314

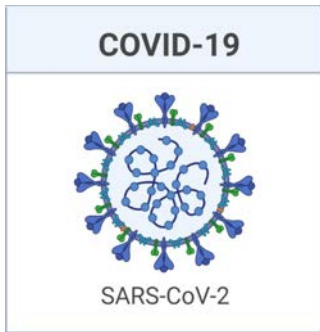
NSF 20-053

**Frequently Asked Questions (FAQs) About the Coronavirus
Disease 2019 (COVID-19) for National Science Foundation (NSF)
Proposers and Awardees**

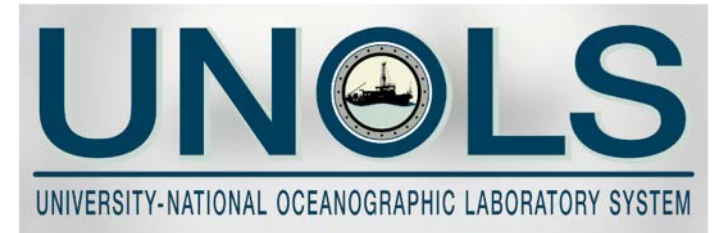
COVID-19



SARS-CoV-2



UNOLS: US ARF 30 Day Revised Operations Plan



RV NEIL ARMSTRONG

Current Status: The RV NEIL ARMSTRONG is currently in its home port of Woods Hole, MA.

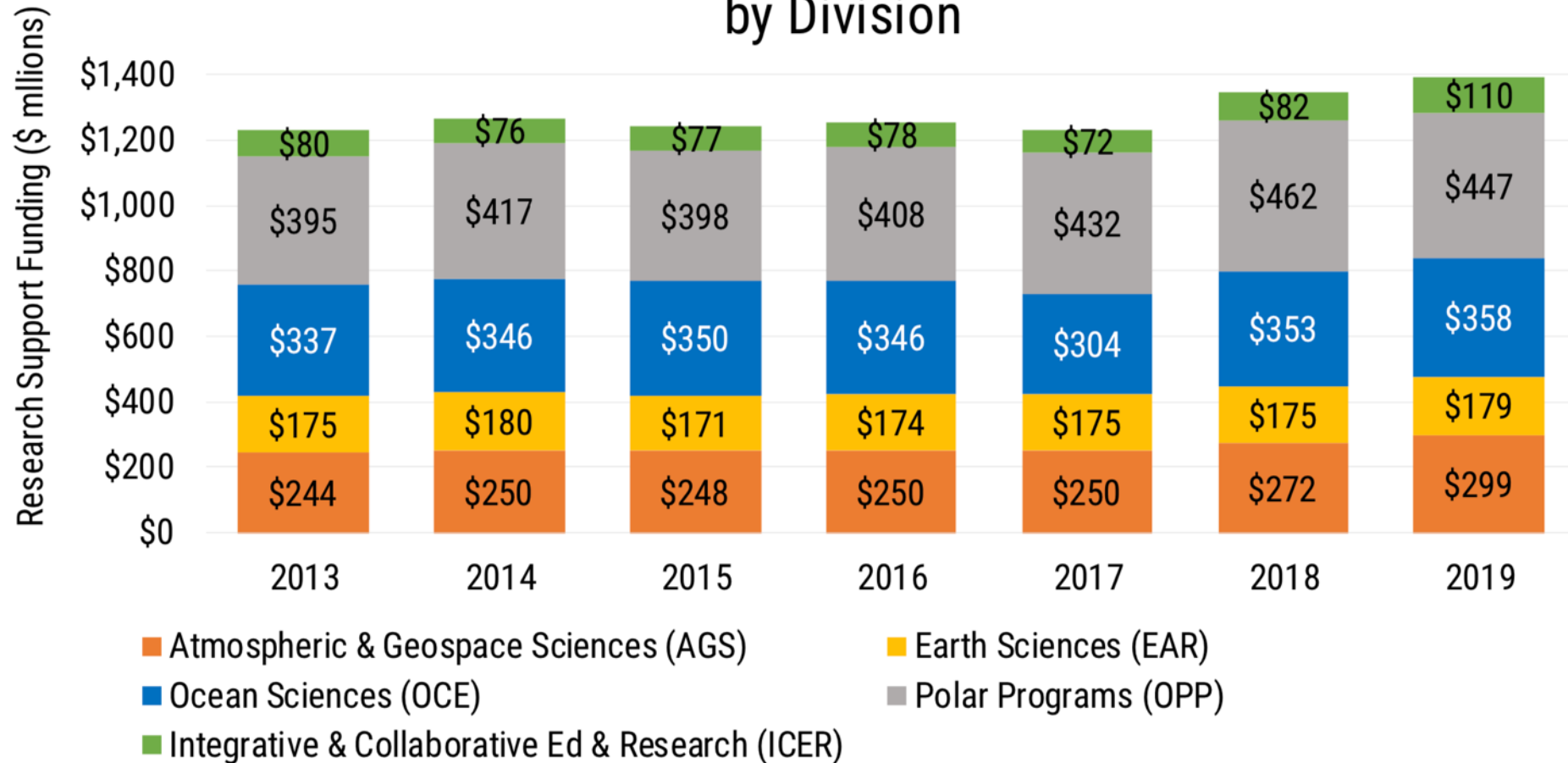
Scheduled operations in the next 30 days:

Chi Sci	Project	Start Date	End Date	Ports of Call	Funding Agency	Information
Layton	AZMP Spring 2020	3/20/20	4/10/20	Woods Hole, MA / Halifax, Canada	DFO Canada	Fieldwork on the Scotian Shelf and Slope and Gulf of Maine to describe the hydrography and distribution of nutrients and zooplankton and servicing moorings. Cruise cancelled.
Twomey	Transit	4/12/20	4/14/20	Halifax, Canada / Woods Hole, MA		This is a transit cruise to reposition for the next cruise.
Cruises beyond 30 day window						
Pleudemann	OOI	04/17/20	04/27/20	Woods Hole, MA	NSF-OOI	OOI Pioneer array service cruise. Rescheduling is essential to continue the OOI data delivery.

**Budget
Update**



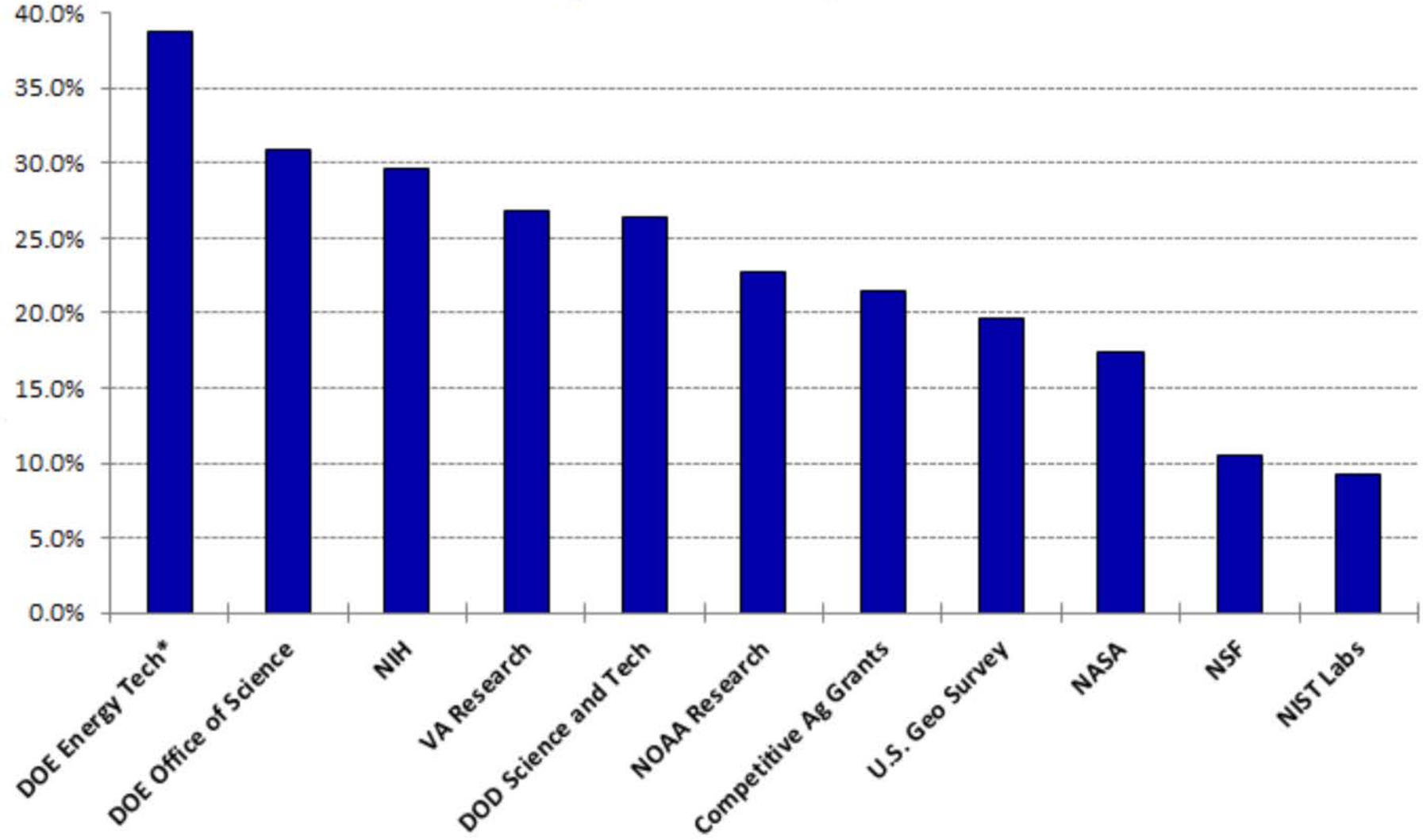
NSF Geosciences Directorate Research Support Funding by Division



Credit: AGI; data derived from the NSF Budget Internet Information System

Science Agency Budget Changes Since January 2017

Percent change from FY 2016 - FY 2020, nominal dollars



*Nuclear, fossil, efficiency, renewables, ARPA-E, grid reliability and security. Based on agency data and appropriations. | AAAS 2019

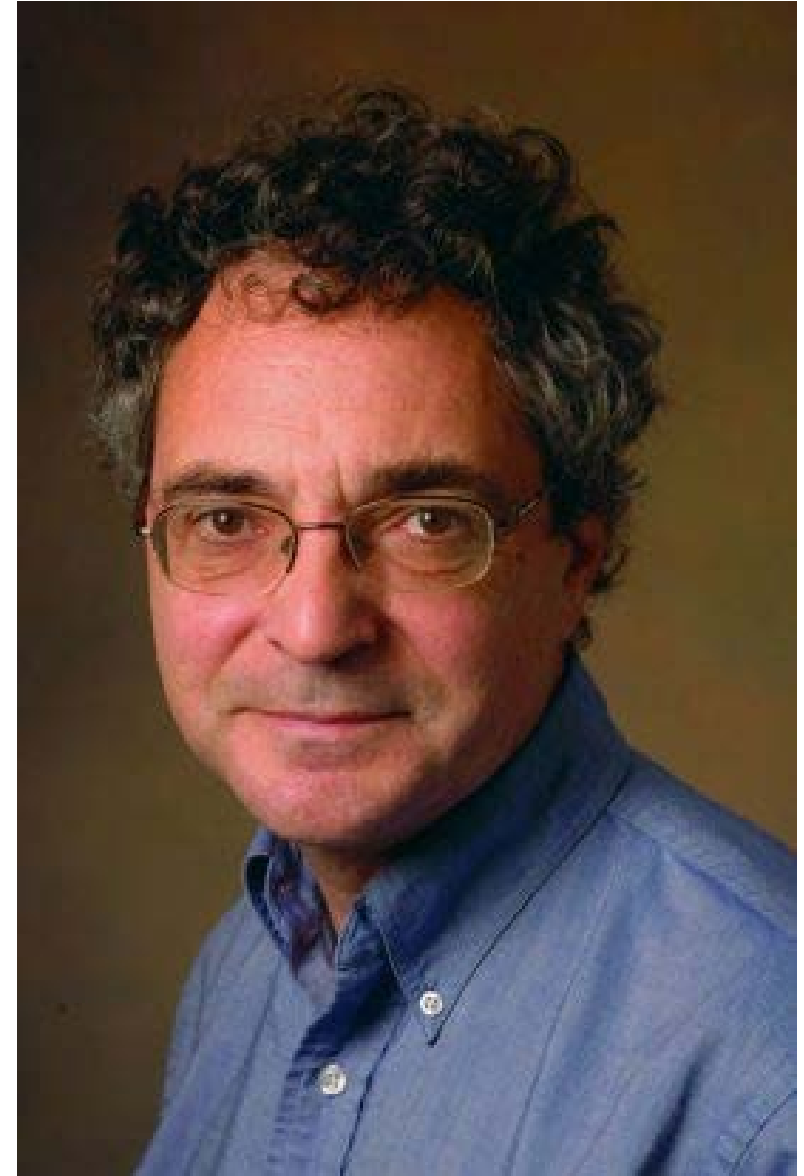
**AC GEO
Update**



Advisory Committee for Geosciences

**Ocean Science Affiliates
End of a Three-Year Term
Thank You!**

- Paul Falkowski (Rutgers)



Advisory Committee for Geosciences

Ocean Science Affiliates

Last Year of Service

Thank You!

- Shirley Pomponi (FAU)
- Steve Riser (UW)

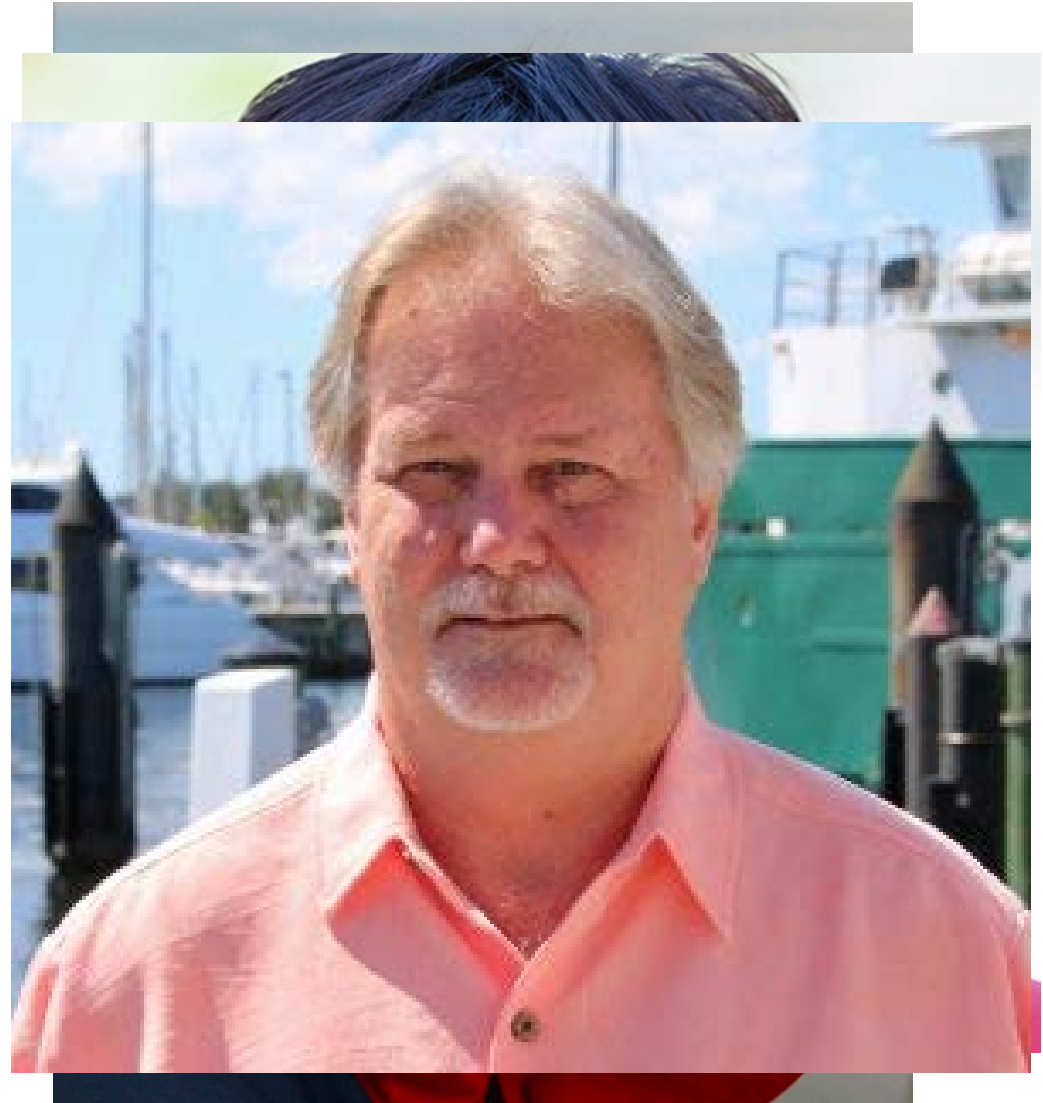


Advisory Committee for Geosciences

Ocean Science Affiliates

New Three-Year Terms

- Lihini Aluwihare (Scripps)
- Carol Arnosti (UNC)
- Gary Mitchum (USF)



**Select
Program
Updates**



Key Words in Abstracts OCE Awards (2015-2019)

Physical Oceanography



Improvements to Biological Field Stations and Marine Laboratories (FSML)

[Expanding the Biological/Physical Sampling at Rutgers Marine Field Station at Tuckerton](#)

Award Number:1924824; Principal Investigator:Oscar Schofield; Co-Principal Investigator:Kenneth Able, Thomas Grothues, Josh Kohut, Grace Saba;

[Increasing Capacity for Water Quality Research at the Shannon Point Marine Center](#)

Award Number:1917266; Principal Investigator:Kathryn Van Alstyne; Co-Principal Investigator:Brian Bingham; Organization:Western Washington University;NSF Organization:DBI Start Date:08/15/2019; Award Amount:\$151,704.00; Relevance:37.5;

[Planning Grant: Building Women Leadership at field stations and marine laboratories](#)

Award Number:1917139; Principal Investigator:Jennifer Gee; Co-Principal Investigator:Lisa Busch, Jennifer Seavey, Elizabeth Long; Organization:University of California-Riverside;NSF Organization:DBI Start Date:09/01/2019; Award Amount:\$37,747.00; Relevance:33.04;

[Repurposing Infrastructure to Advance State of the Art Research Methods, Keys Marine Lab](#)

Award Number:1929638; Principal Investigator:Nancy Thompson; Co-Principal Investigator:;; Organization:University of South Florida;NSF Organization:DBI Start Date:09/01/2019; Award Amount:\$585,442.00; Relevance:48.21;

Angeles;NSF Organization:DBI Start Date:09/01/2019; Award Amount:\$195,703.00; Relevance:37.5;

Submit to the Infrastructure Capacity for Biology solicitation ([NSF 18-594](#)).

Dear Colleague Letter: Research Opportunities Related to Coastlines and People (CoPe)

April 24, 2019

Conferences

bring together a diverse group of scientists and practitioners to work together to explore new synergistic research topics related to CoPe

EAGERS

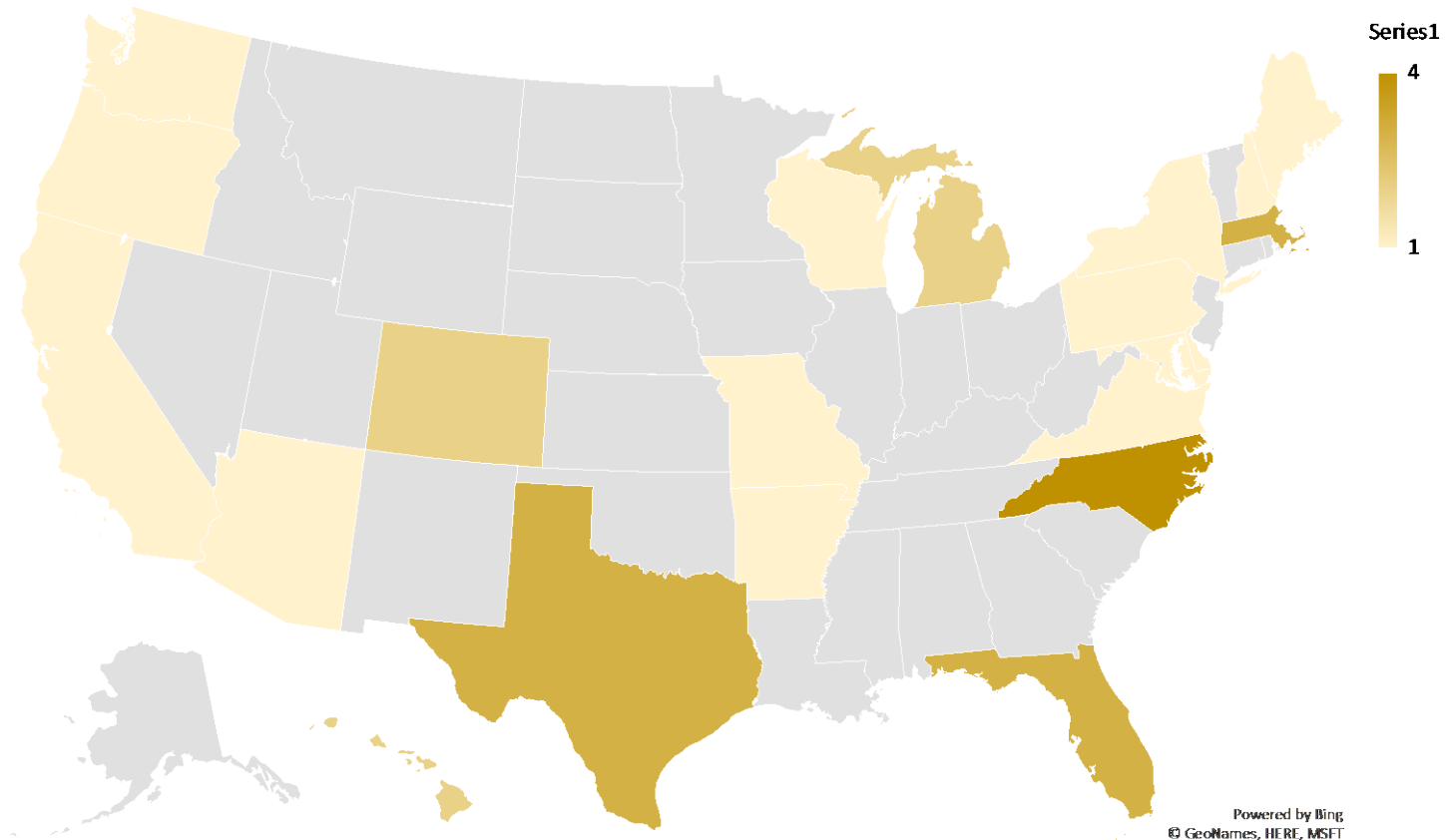
exploratory research in its early stages on untested, but potentially transformative, research ideas or approaches related to CoPe

RCN

identify and prioritize research topics for innovative CoPe science with well-defined research questions that span spatial and temporal scales across disciplines and sub-disciplines

CoPe Awards Update FY19

10 Conference
17 EAGER



1939275, “CoPe EAGER: Nearshore Extreme Events Reconnaissance (NEER) Association”, Woods Hole Oceanographic Institute

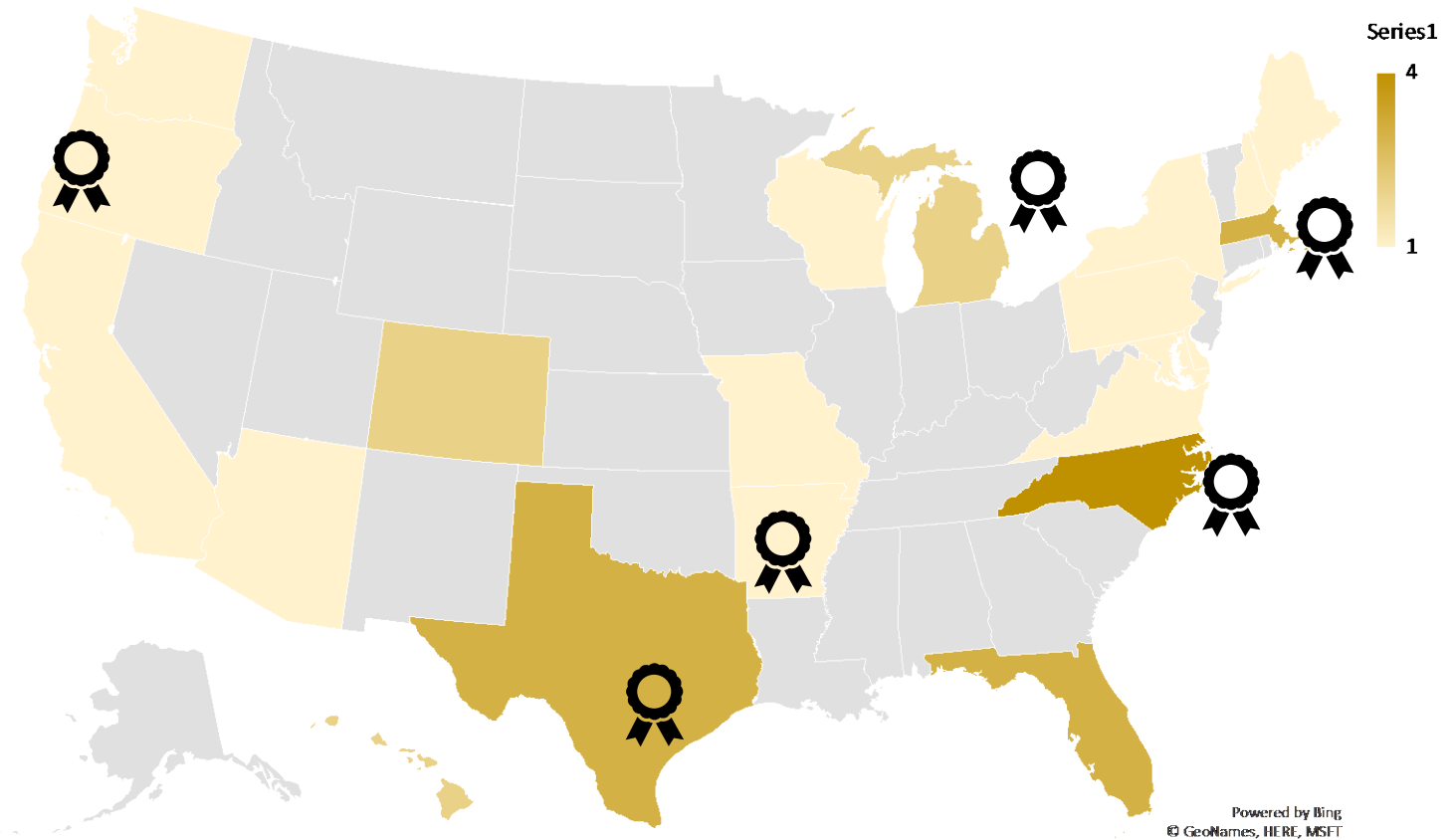
1939915, “CoPe Conference: HuRaCon: Science at the Intersection of Hurricanes and the Populates Coast”, East Carolina University

1940078, “CoPe Conference: Symposium on Far Field Effects of Sea Level Rise 2020”, University of Arkansas

1940041: “CoPe EAGER: Pathways for Community College Students to Explore the “Tipping Point” in Vulnerable Coastal Communities Following a Natural Hazard”, Austin Community College

1940345, "CoPe Conference: International Symposium on Interdisciplinary Evacuation Modeling for Rapid Onset Disasters”, Oregon State University

1939979, “CoPe EAGER: Development of a Drone-Based Coastal Change Monitoring Program through Citizen Science Partnership and Capacity Building”, Michigan State University



**Facility
Updates**



Regional Class Research Vessels (RCRV)

R/V Taani

R/V Resolution

R/V Gilbert R. Mason



Coming Soon to the Gulf of Mexico

The Gulf – Caribbean Oceanographic Consortium (GCOC), led by The University of Southern Mississippi with the Louisiana Universities Marine Consortium, has been awarded operation of the third new Regional Class Research Vessel being built by the National Science Foundation. This 199-foot long state-of-the-art ship will carry out research in the Gulf of Mexico, Caribbean Sea and Atlantic Ocean.



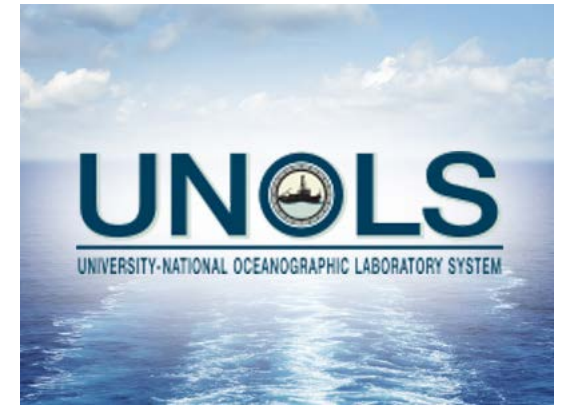
Adjustment to the RCRV Delivery Schedule

- Delay in deliveries of all three RCRV vessels
- Budgeted Contingency
- Mitigate Impact on Science
- R/V *Oceanus* will continue in service for 2021
- R/V *Endeavour* will likely continue to operate through much of 2022



Update: US Academic Research Fleet

- IWG-Facilities and Infrastructure Efforts on Right-Sizing & Modernizing the US ARF
- NSF RCRV Construction Project includes O&M budget
- Past Ship Retirements
 - R/V *Wecoma*, 2011; R/V *Cape Hatteras*, 2013; R/V *Point Sur*, 2014; and R/V *New Horizon*, 2015
- Future Ship Retirements
 - R/V *Oceanus*; R/V *Endeavour*; R/V *Pelican*
- OCE historically supports 60-70% ARF Use
- NSF remains confident in its management of the future O&M costs





- OOI Data ▾
- The Observatory ▾
- Community ▾
- Researchers ▾
- Educators ▾
- Science ▾
- Events & Updates ▾
- About ▾

The Ocean Observatories Initiative

Platforms and sensor systems measure physical, chemical, geological and biological properties and processes from the seafloor to the air-sea interface.

IRMINGER SEA
60°N
39°W

DCL: Workshops & other Training Events for OOI

[LEARN MORE](#)

**Ocean
Science &
Policy
Update**



Ocean Policy Expertise in OCE

**Dr. Molly Gear, Knauss Sea-Grant Fellow
Recently Finished Her Term
Thank You and Best Wishes!**

**New Recruitment, AAAS Science &
Technology Fellow**

**New Hire, Ocean Policy Specialist
Dr. Stacy Aguilera-Peterson
Welcome Aboard!**



DECADE FRAMEWORK



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

- Increase transformative science capacity and capability;
- Expand, innovate and integrate ocean knowledge systems;
- Understand and predict fundamental aspects of the ocean system;
- Develop integrated assessment and decision support systems, transformational tools and processes.

SCIENCE Scientific Leadership & Oversight

Science Action Plan

Decade Board

- Set scientific priorities
- Track scientific achievement & impact

PLANNING Coordination & Operationalisation

Implementation Plan

Decade Coordination
Unit

- Translate science into action plans
- Identify resource needs to achieve priorities
- Track operational indicators

FINANCE Large Scale Resource Mobilisation

Global Ocean Decade
Commitments Platform
"a virtual resource pool"

Decade Coordination
Unit

- Offer significant in-kind and direct support to meet priority needs
- Lead by example + motivates action by others
- Create new partnerships for resource mobilisation

PRESIDENTIAL MEMORANDA

Memorandum on Ocean Mapping of the United States Exclusive Economic Zone and the Shoreline and Nearshore of Alaska

ENERGY & ENVIRONMENT | Issued on: November 19, 2019



SUMMARY OF THE 2019 WHITE HOUSE SUMMIT ON PARTNERSHIPS IN OCEAN SCIENCE & TECHNOLOGY

A Product of the
OCEAN POLICY COMMITTEE

chaired by
THE WHITE HOUSE
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
&
COUNCIL ON ENVIRONMENTAL QUALITY

NOVEMBER 2019



Directorate for Geosciences
Division of Ocean Sciences



Some Closing Thoughts