



NOAA Update DeSSC Meeting December 2020

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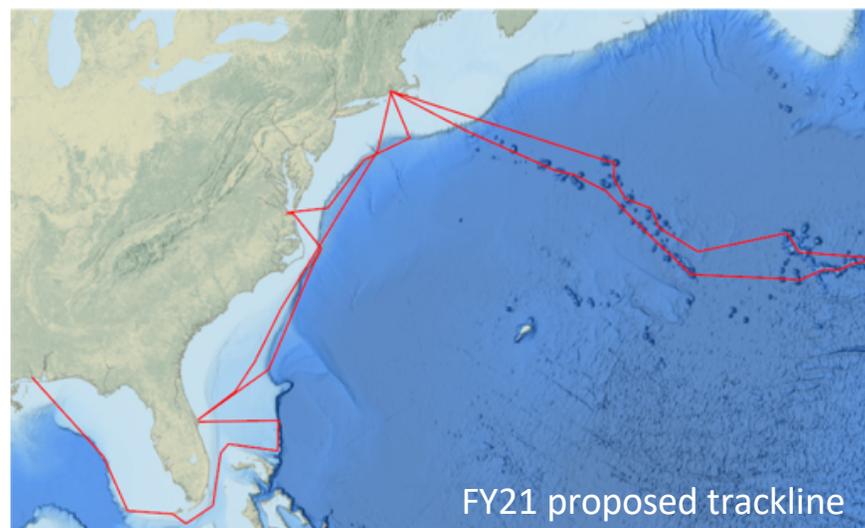
NOMECE Strategy

GOALS

- 1 Coordinate Interagency Efforts and Resources to Map, Explore, and Characterize the United States EEZ
- 2 Map the United States EEZ
- 3 Explore and Characterize Priority Areas of the United States EEZ
- 4 Develop and Mature New and Emerging Science and Technologies to Map, Explore, and Characterize the United States EEZ
- 5 Build Public and Private Partnerships to Map, Explore, and Characterize the United States EEZ

Okeanos Explorer operations

- 2020 operations were cancelled due to COVID-19
- Ship currently in major drydock repair period through March 2021
- Operations anticipated to resume with NOAA OMAO COVID-19 mitigation protocols in place in April 2021
- Mapping and ROV operations will all be staged from US East Coast
 - Mapping focus on Blake Plateau
 - ROV cruise to Corner Rise Seamounts
 - Tech demo using WHOI *Orpheus* AUVs



Deepwater Exploration Mapping Procedures Manual

Principles of Exploration Mapping



Always Collect Data



Systematically Maximize Coverage



Collect Useful and Quality Data



Produce Useful Products



Report Necessary Metadata



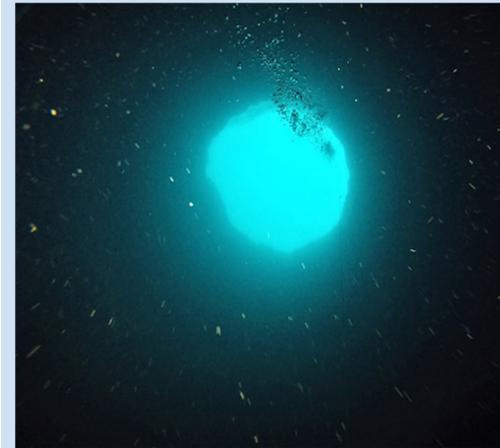
Release in a Timely Manner

- Manual outlines methodologies for data acquisition, processing, reporting, and archiving for ship-based exploratory ocean mapping operations > 200m
- Version 1.0 published on July 13, 2020
- Current version of manual can always be found at:
<https://oceanexplorer.noaa.gov/data/publications/mapping-procedures.html>

OER Grant Supported Expeditions in 2020



Paleolandscapes and the ca. 8,000 BP Shoreline of the Gulf of Mexico Outer Continental Shelf 2020



Blue Holes: Development of Innovative Techniques for Exploring Novel Submarine Springs on the Gulf of Mexico Outer Continental Shelf

Gradients of Blue Economic Seep Resources



Wimble Shoals: An Exploration and Characterization of Submerged Cultural and Sediment Resources

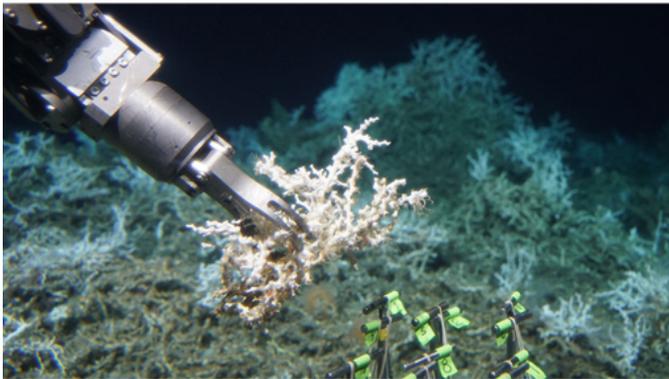


FY20 Grantees

Project Title	Principal Investigator
Coordinated Simultaneous Physical-Biological Sampling by ADCP-Equipped Ocean Gliders	Wu-Jung Lee, University of Washington
Deepwater AUV Surveys of WWII U.S. Cultural Assets in the Saipan Channel	Eric Terrill, Scripps Institution of Oceanography, University of California San Diego
Discovering the Submerged Prehistory of the Alpena-Amberley Ridge in Central Lake Huron	John O'Shea, University of Michigan
Paleolandscapes, Paleoecology, and Cultural Heritage on the Southern California Continental Shelf	Amy Gusick, Natural History Museum of Los Angeles County
Submarine Ring of Fire: Hydrothermal Hunt in the Northern Mariana Back-Arc	Carol Stepien, NOAA Pacific Marine Environmental Laboratory/David A. Butterfield, Joint Institute for the Study of the Atmosphere and Ocean

FY21 Grants Competition

- Full proposal submissions are complete and the peer review process is underway
- Award announcements expected in Spring 2021
- \$3 million in anticipated funding



Exploration



Marine Archaeology



Technology