

Southeast Deep Coral Initiative Efforts in the U.S. South Atlantic



Daniel Wagner, Ph.D.
SAFMC Meeting
April 24, 2018

Deep-Sea Coral Research & Technology Program

- 2009 following reauthorization of Magnuson-Stevens Act
- Science to address fishing & other threats to deep corals (> 50 m, azooxanthellate)
- Integrate expertise & resources across NOAA
- Funding for fieldwork initiatives

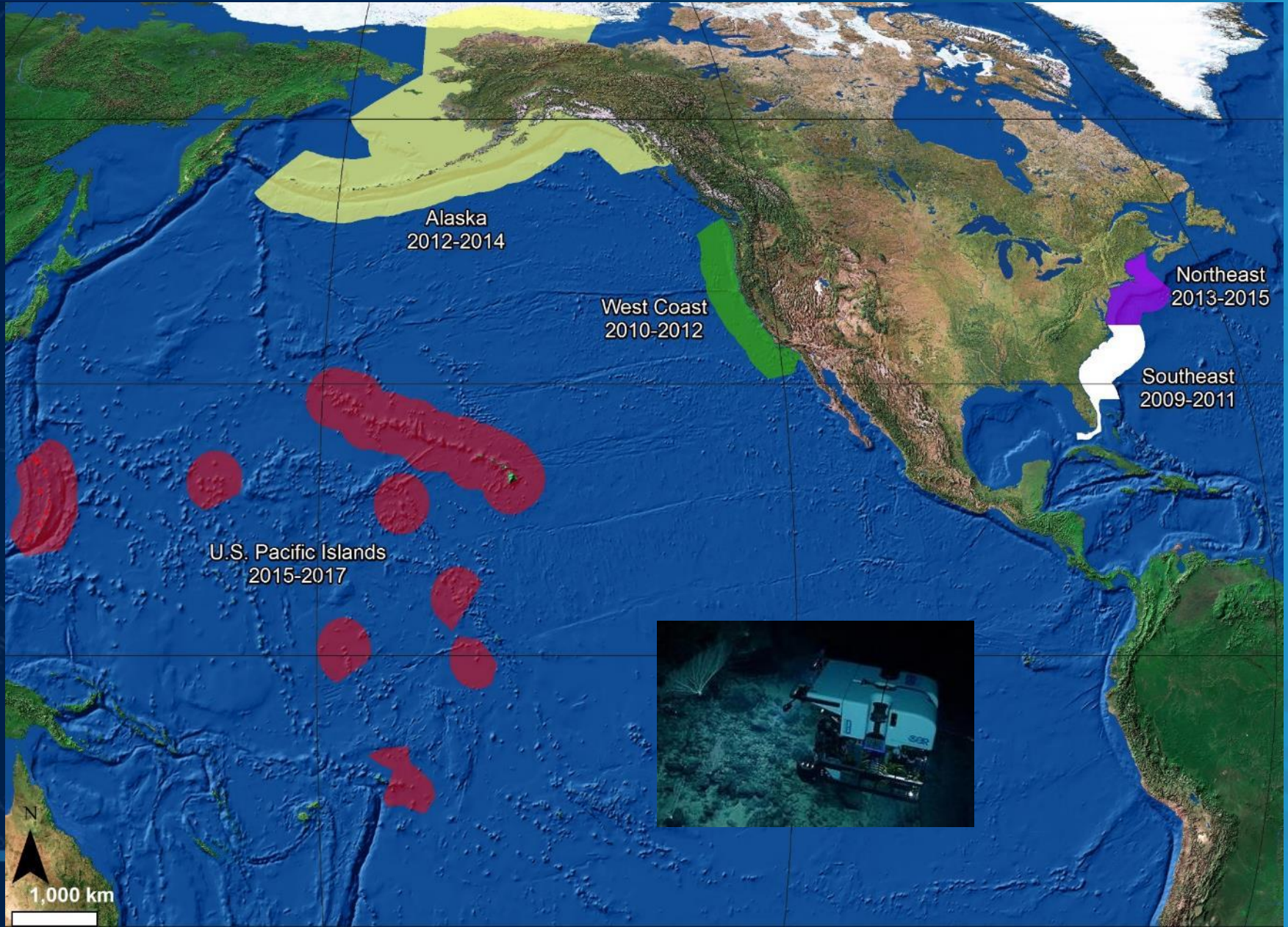


DSCRTP Fieldwork Initiatives

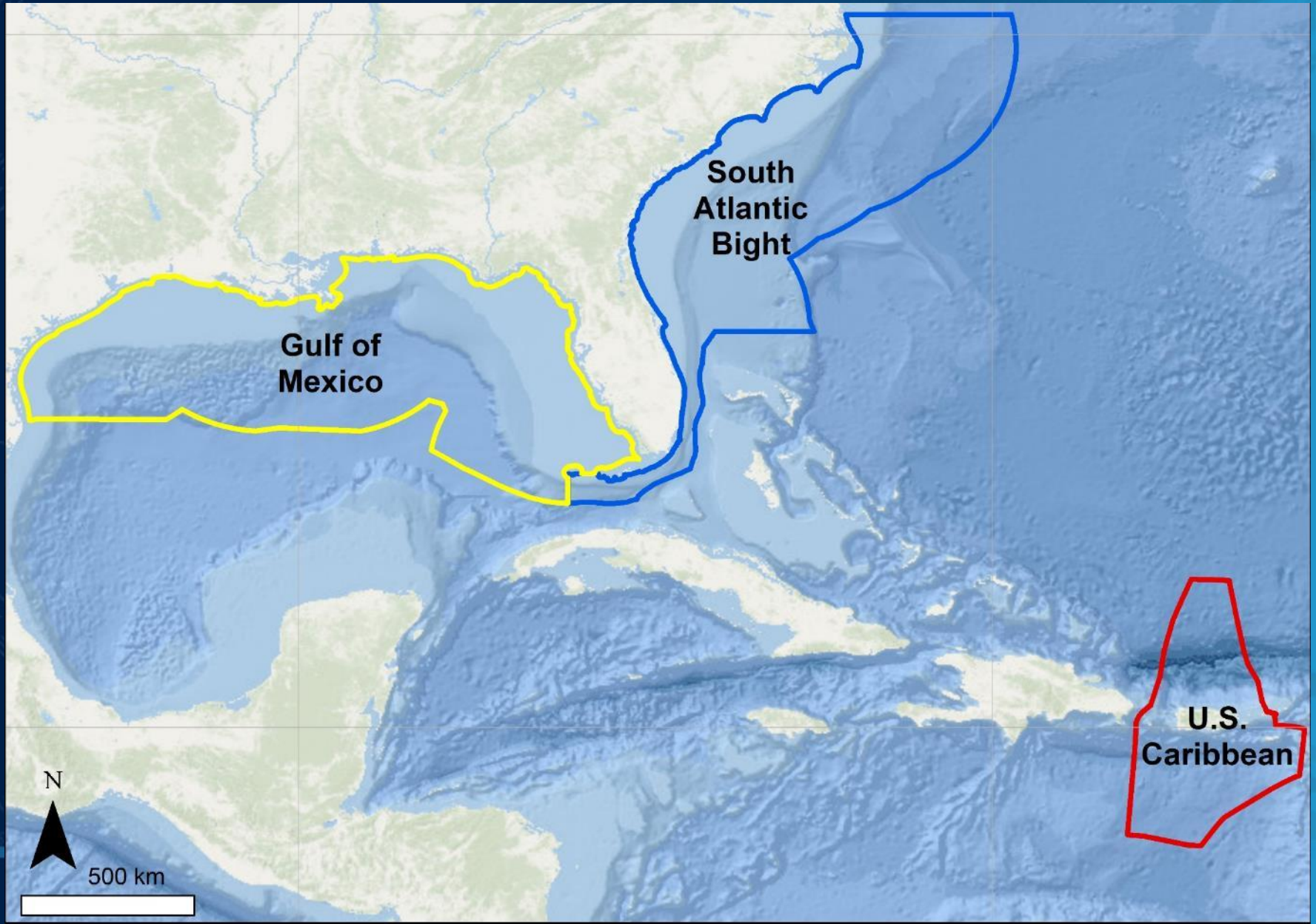
- 3-4 year efforts
- Research expeditions
- Data/sample analysis



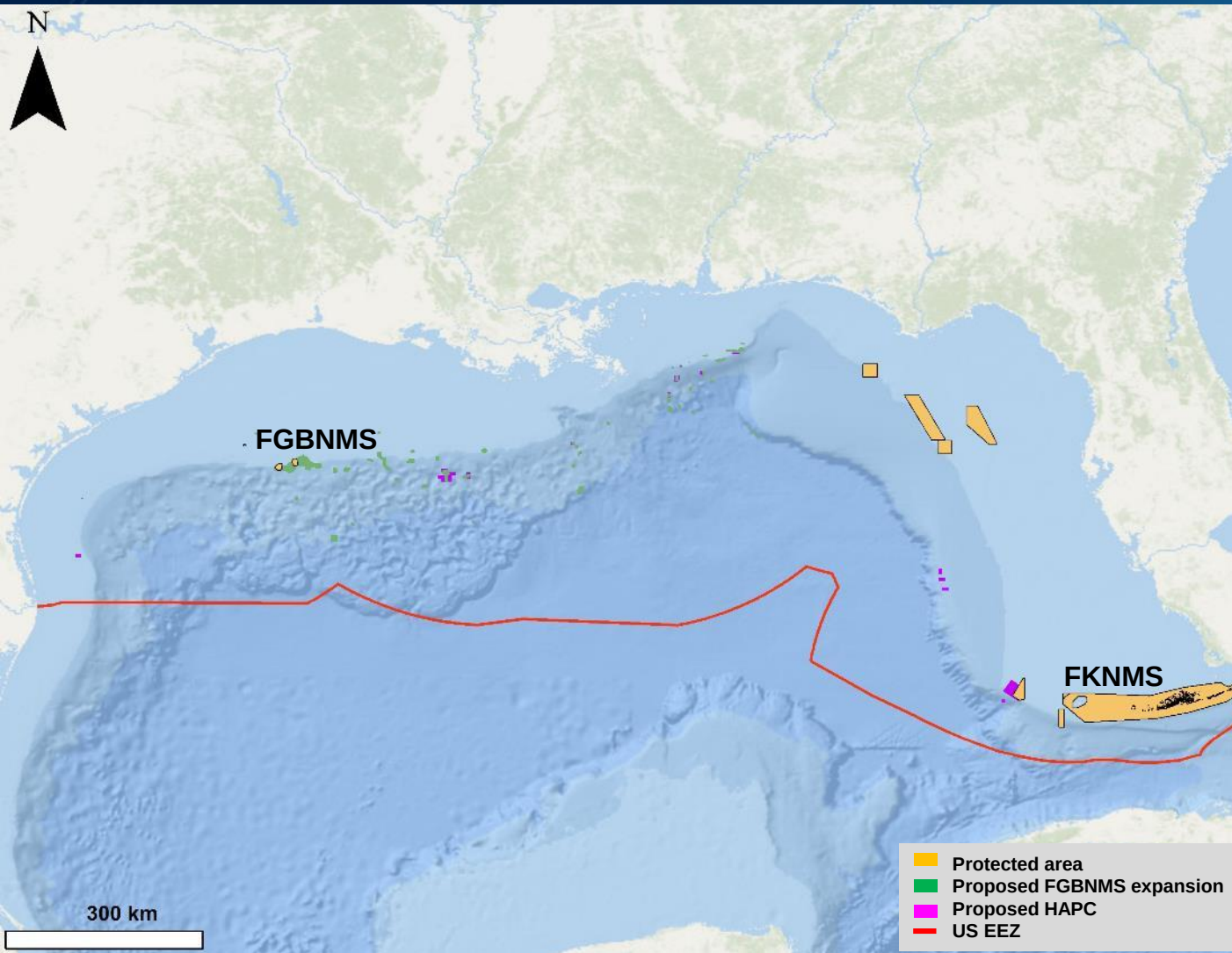
Previous DSCRTP Initiatives



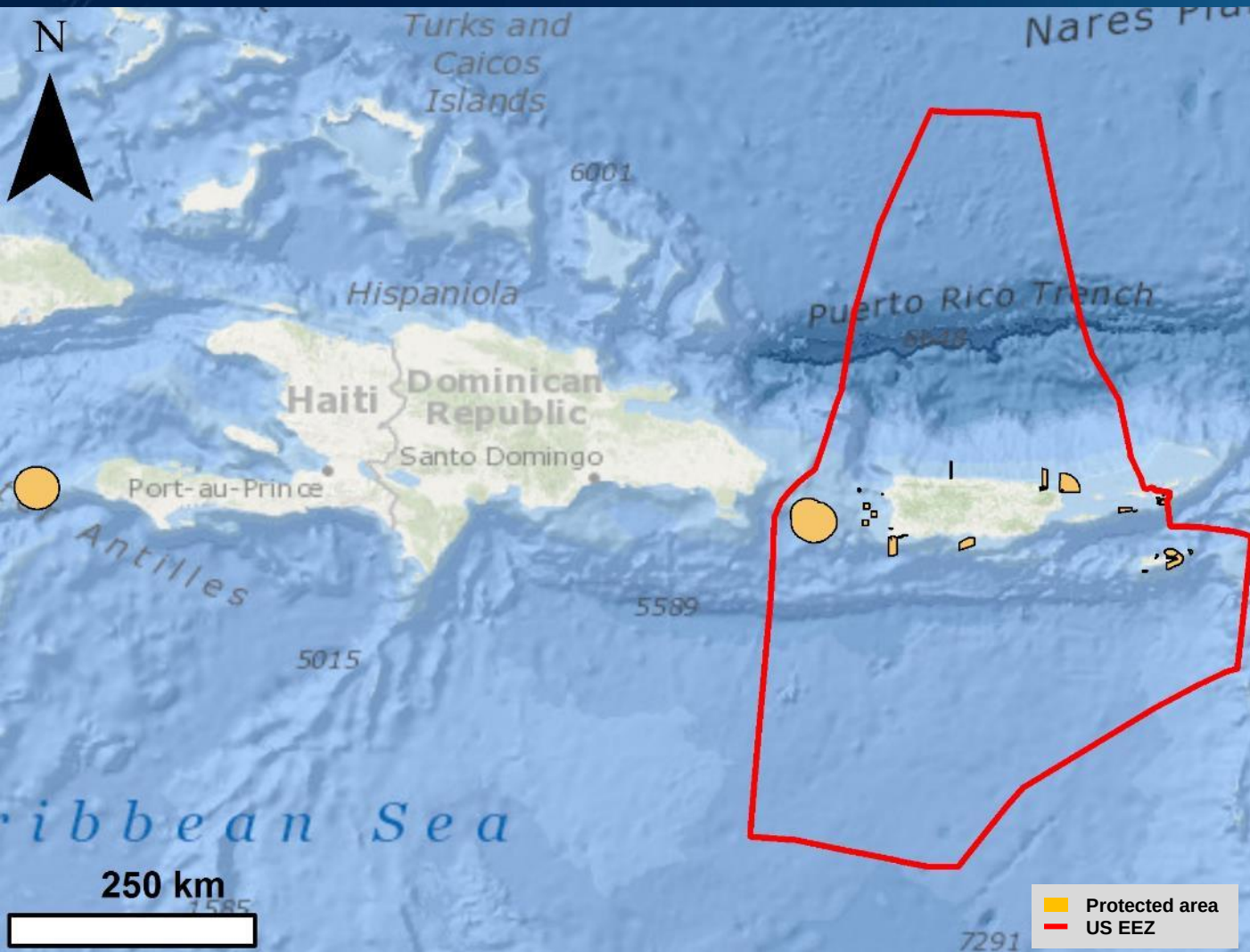
2016-2019 Southeast Deep Coral Initiative (SEDCI)



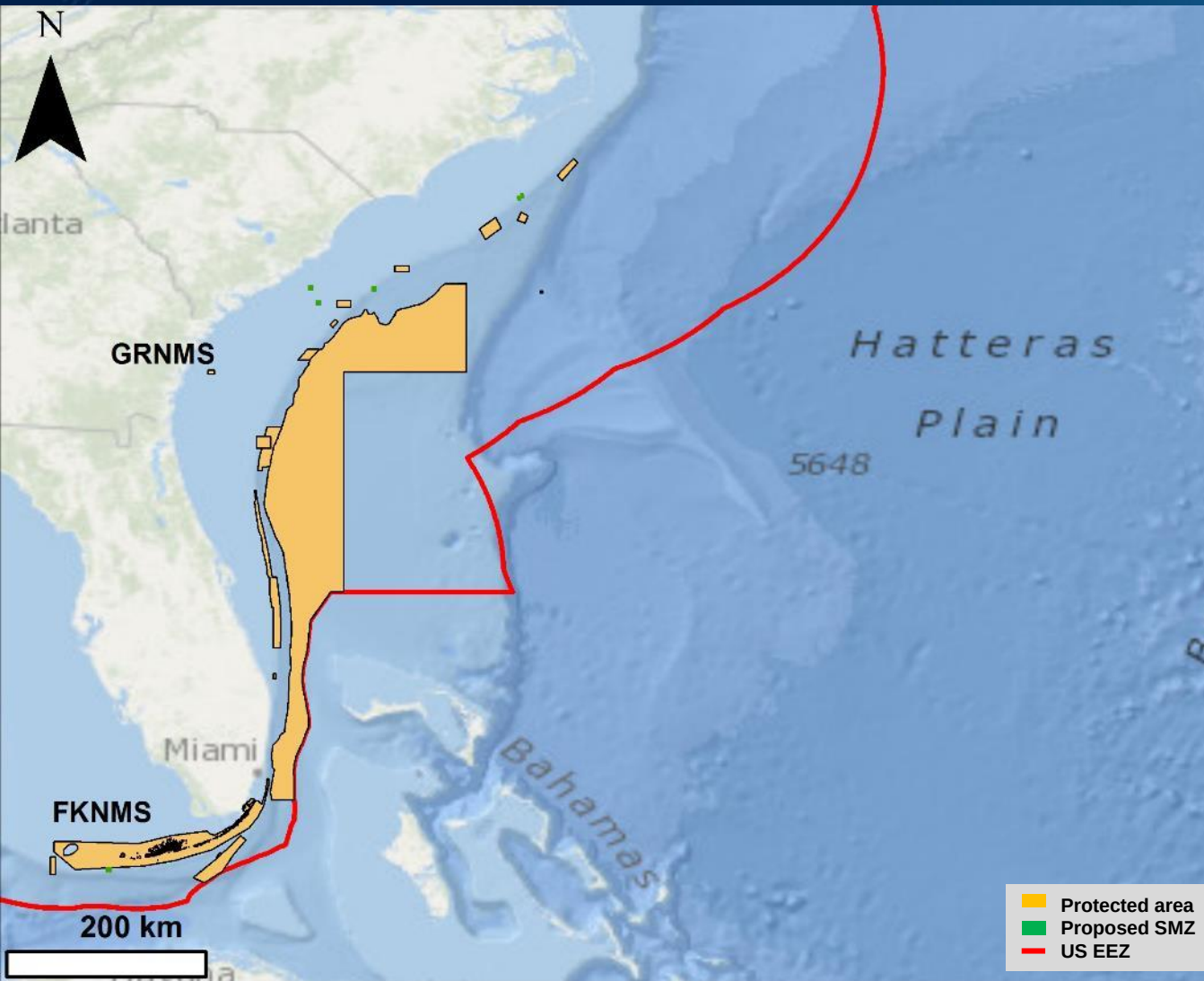
Gulf of Mexico



U.S. Caribbean



U.S. South Atlantic



Large Area



Diverse Management Priorities



NOAA's NATIONAL OCEAN SERVICE

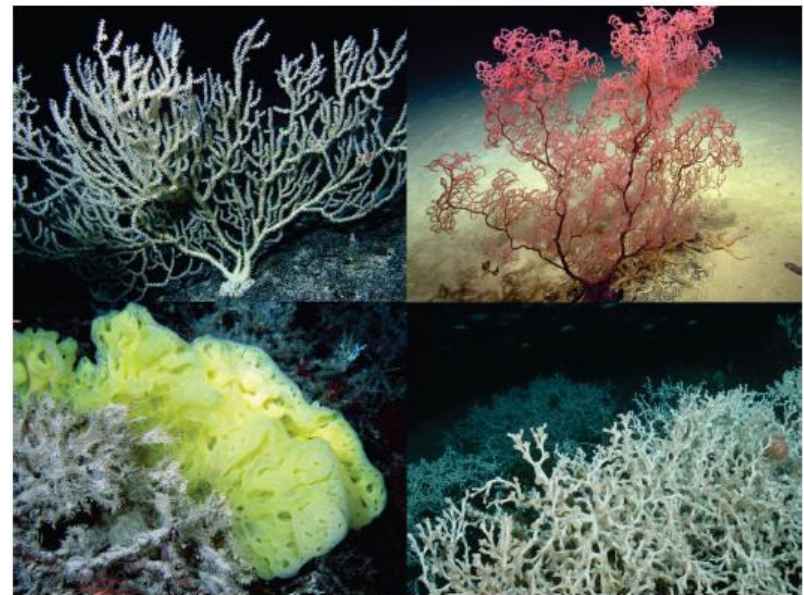
POSITIONING AMERICA FOR THE FUTURE

SEDCI Science Plan

- Management issues
- Research questions
- Expeditions & projects



Science Plan for the Southeast Deep Coral Initiative (SEDCI): 2016-2019



NOAA Technical Memorandum
NOS NCCOS 230
March 2017



Commitment to Make all Data Publicly Available



NOAA Technical Memorandum NMFS-SEFSC-695

NOAA Deep-Sea Coral Research and Technology Program Priority Scoping Workshop Report for the DSCRTP Southeast Research Initiative 2016-2019

Workshop date: November 18-20, 2015
NOAA Fisheries Southeast Regional Office
St. Petersburg, Florida

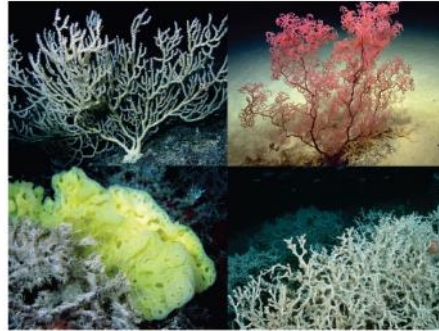
By
Jennifer Schull, NOAA/NMFS – Southeast Fisheries Science Center
Peter Emoyer, NOAA/NOS – National Centers for Coastal Ocean Science
Daniel Wagner, NOAA/NOS – National Centers for Coastal Ocean Science



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Southeast Fisheries Science Center
75 Virginia Beach Drive
Miami, Florida 33149

August 2016

Science Plan for the Southeast Deep Coral Initiative (SEDCI): 2016-2019



NOAA Technical Memorandum
NOS NCCOS 230
March 2017

Cruise Report 2016 NOAA Ship Pisces Expedition to Carolina Canyons (PC-1605: August 24-September 4, 2016)

By

Martha Nizinski¹

¹NOAA National Marine Fisheries Service Systematics Laboratory, Smithsonian Institution,
P.O. Box 37012, NHB, MRC-153, Washington DC 20013, Martha.Nizinski@noaa.gov



NOAA FISHERIES

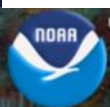
Deep Sea ID

A Deep-Sea Field Guide



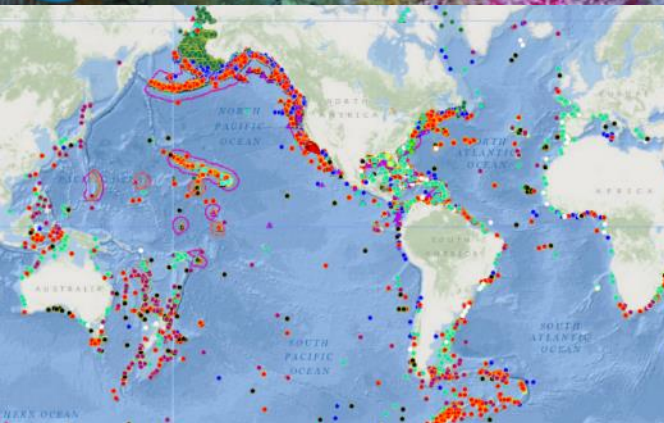
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The World Register of Deep-Sea Species

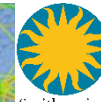
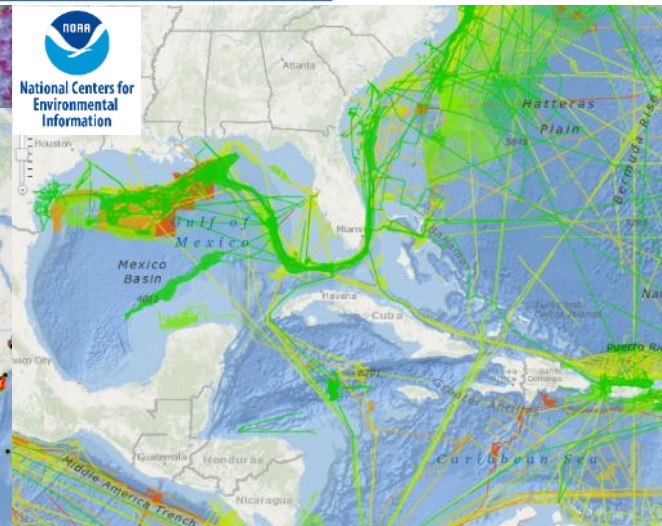


U.S. Department of Commerce | National Oceanic and Atmospheric Administration

NOAA Deep-Sea Coral Data



National Centers for
Environmental
Information



NOAA'S NATIONAL OCEAN SERVICE

POSITIONING AMERICA FOR THE FUTURE

SEDCI Research Projects

Project	Leads	Region
Data Mining	Tim Battista (NCCOS) Travis Sterne (FGBNMS) John Reed (HBOI) Sandra Brooke (FSU) Charles Messing (NSU)	All
Deep-Sea Species Guide	Daniel Wagner (NCCOS) Peter Etnoyer (NCCOS)	All
Geodatabase	Tim Battista (NCCOS) Daniel Wagner (NCCOS) Dan Dorfman (NCCOS)	All
Habitat Modeling	Matt Poti (NCCOS)	All
Environmental Monitoring	Peter Etnoyer (NCCOS)	All
Fishery/Citizen Science	Andy David (NMFS)	Caribbean

Data Mining

Incorporate past coral records into National Database

Gulf of Mexico:

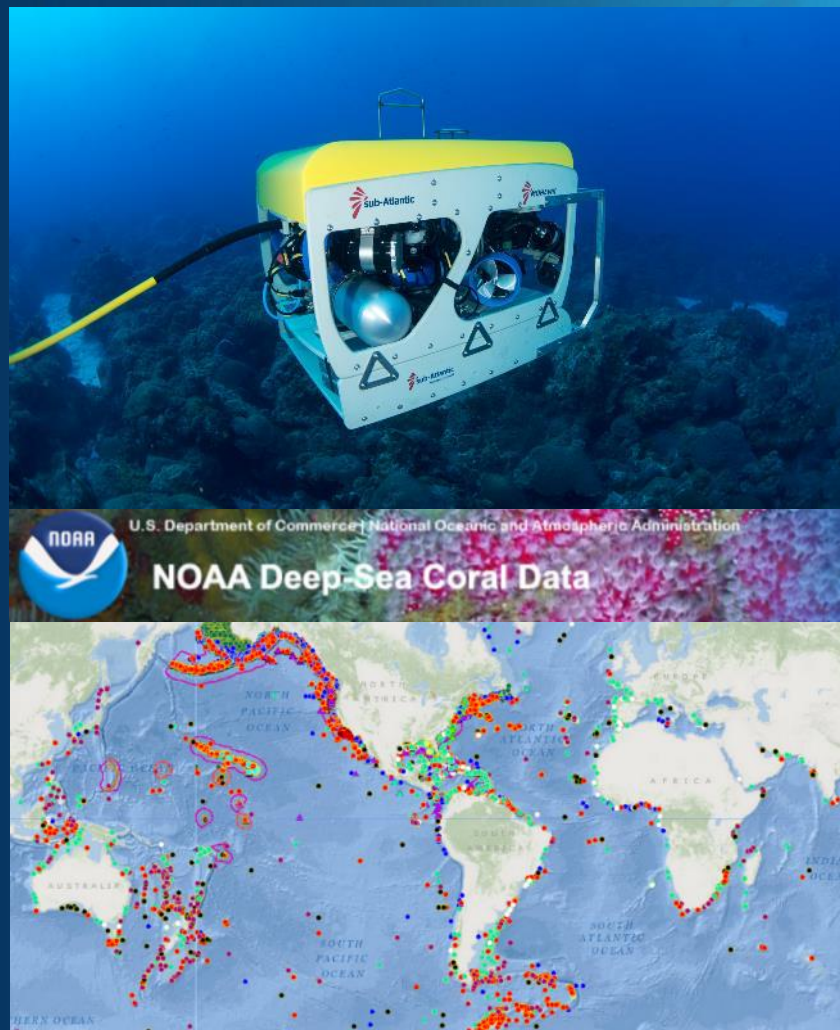
- FGBNMS (2001-present)
- HBOI (1986-present)

Caribbean:

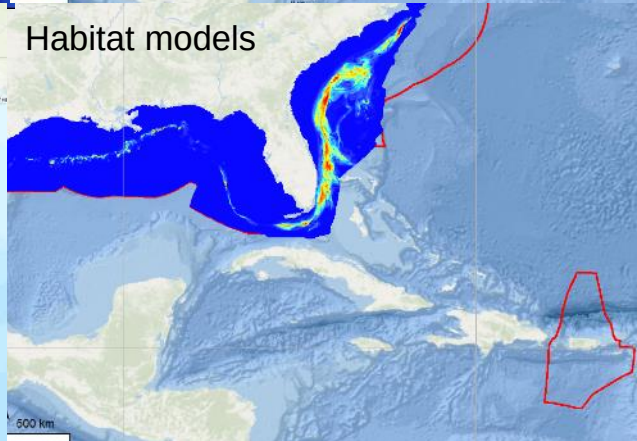
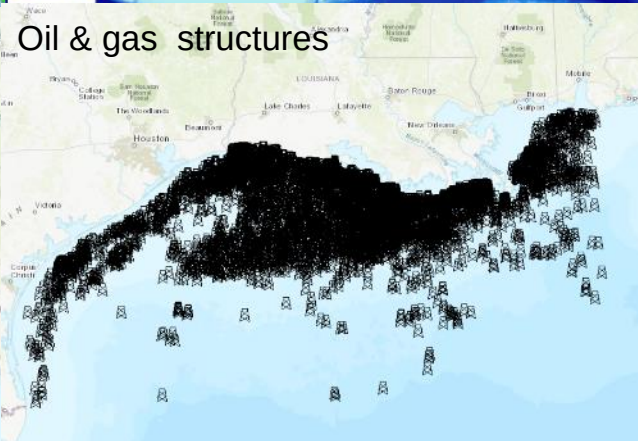
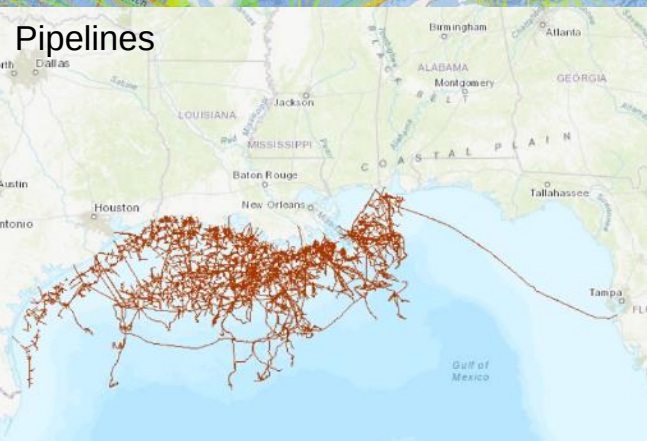
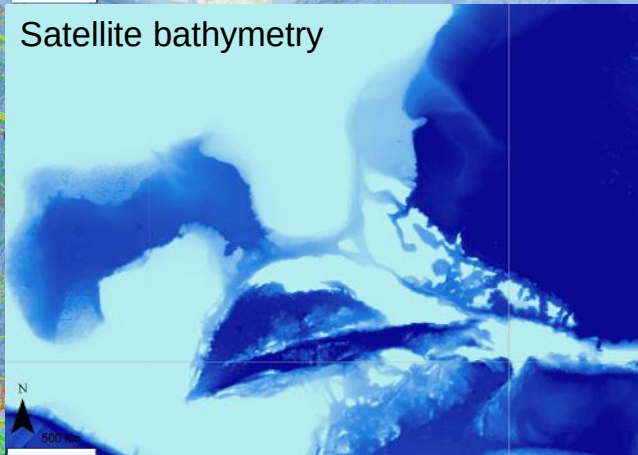
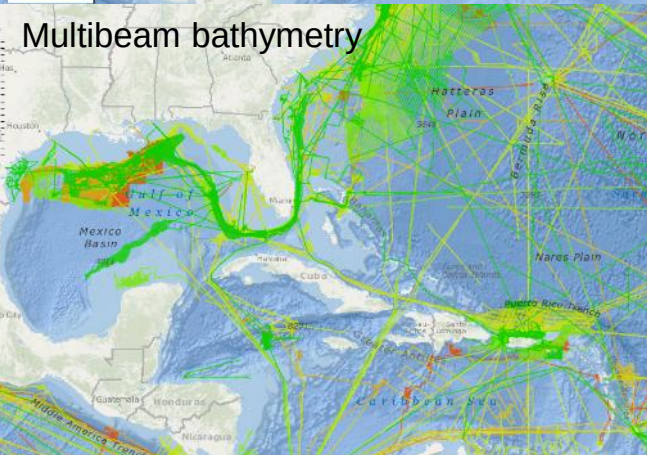
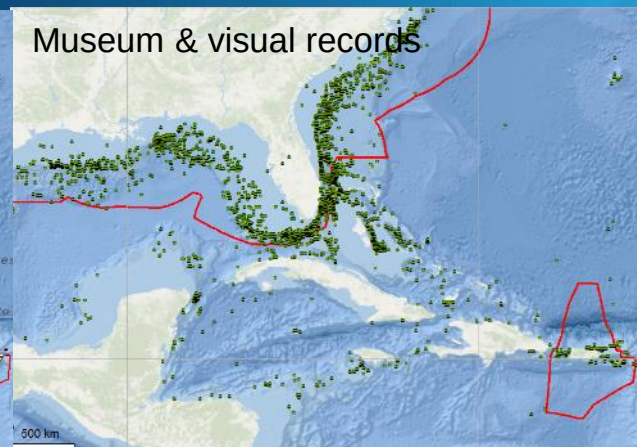
- NCCOS (2004-present)
- *Okeanos Explorer* (2015)

South Atlantic:

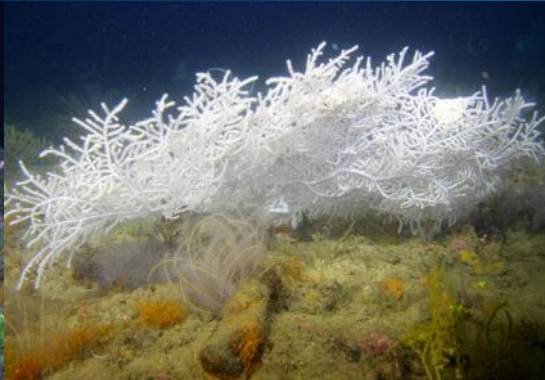
- HBOI (1986-present)
- NOAA (2011-2014)



Online Geodatabase



Deep-Sea Species Guide



Deep Sea ID

A Deep-Sea Field Guide

Presented By

The World Register of Deep-Sea Species

WoRdSS: The World Register of Deep-Sea Species

Home | Search taxa | Browse taxa | Deep Sea ID tips | Key & guides | Images | Statistics | Credits/Bibli | Login

Deep-Sea Images

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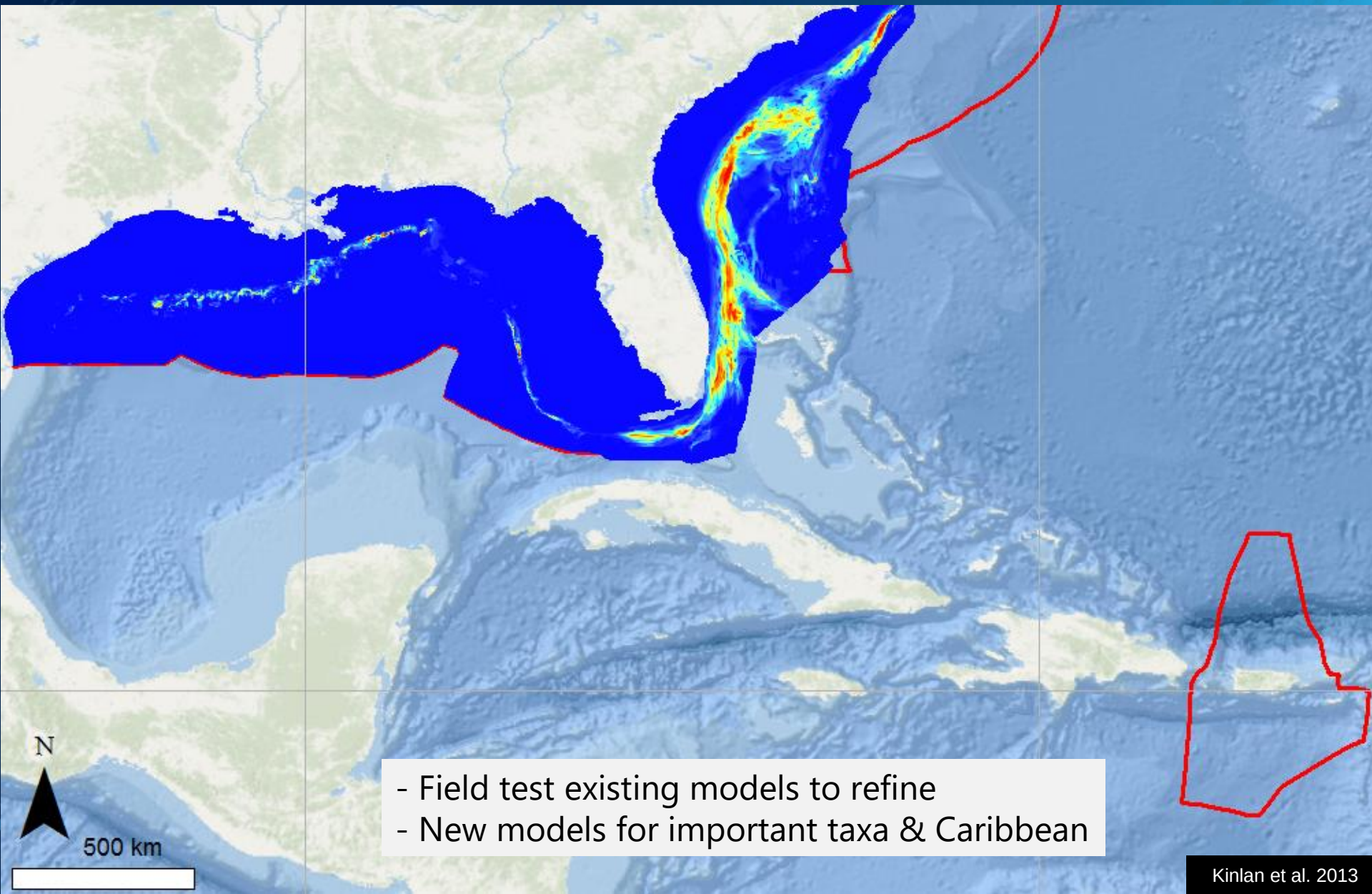
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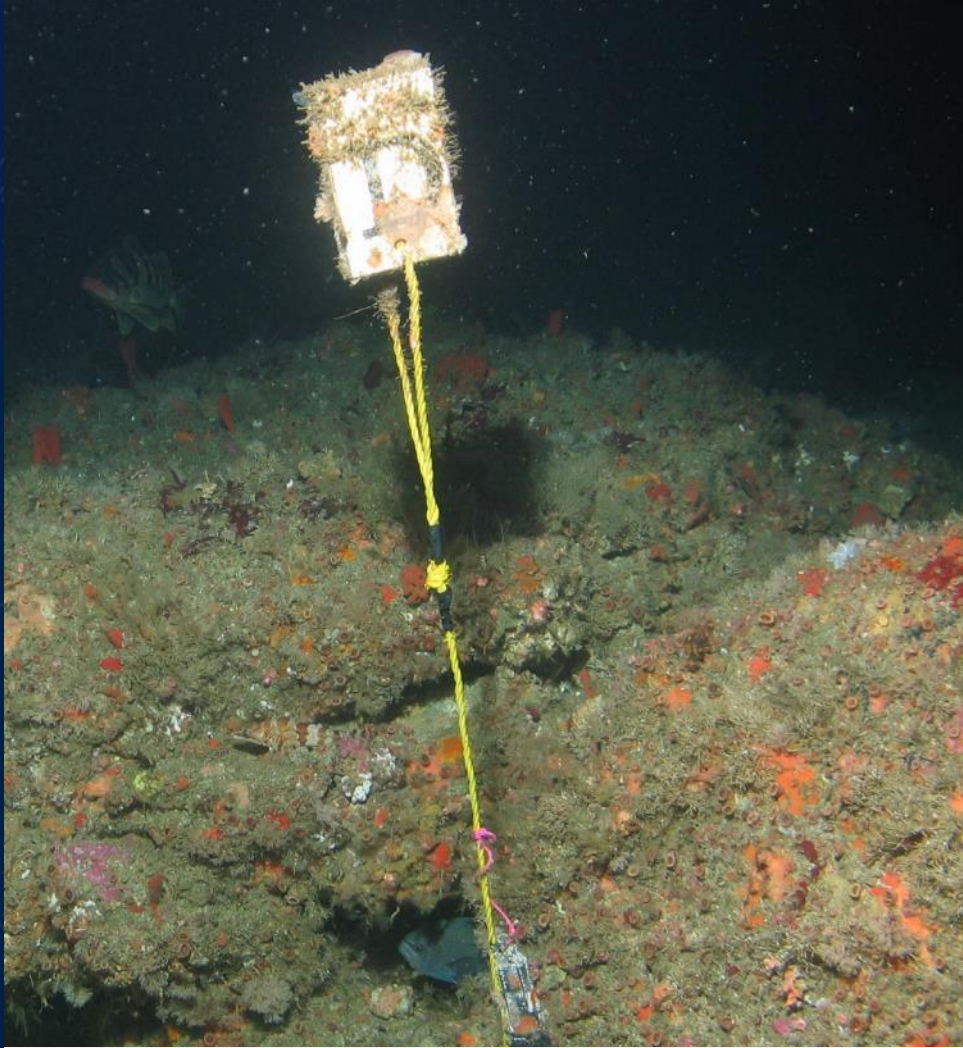
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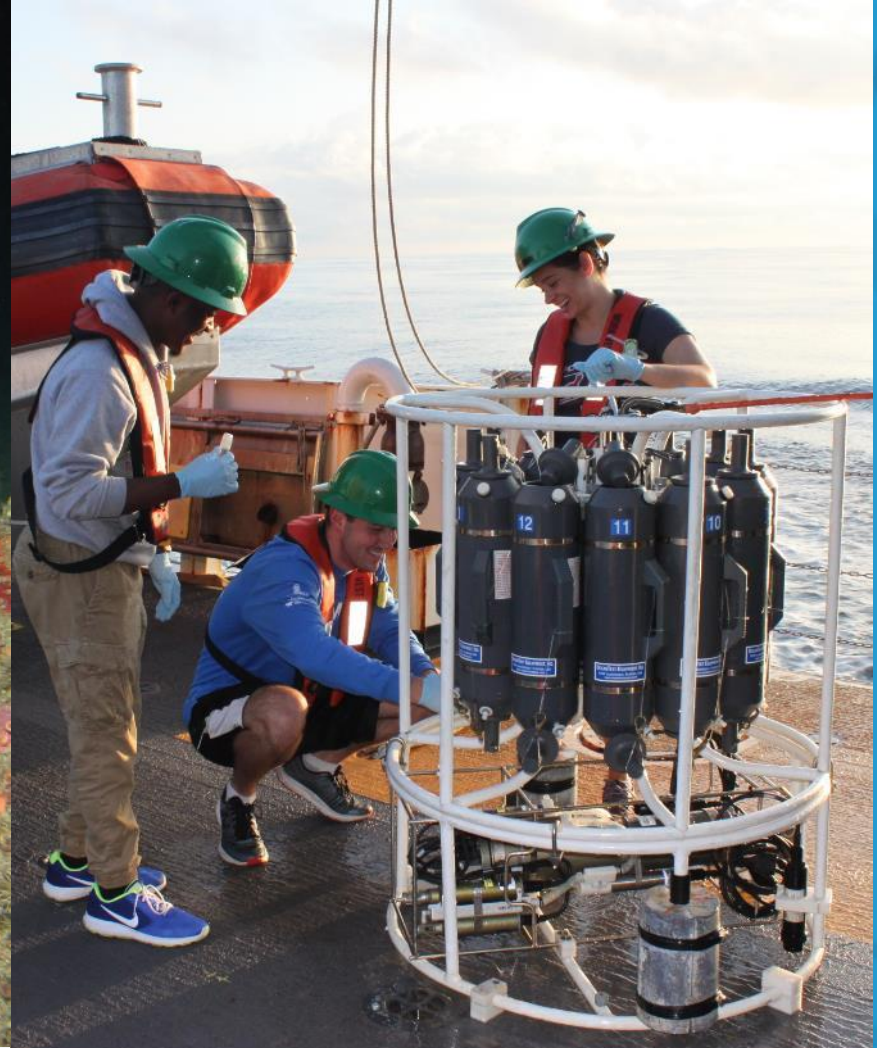
Habitat Modeling



Environmental Monitoring



Temperature loggers in select sites



Water samples for carbonate chemistry



Fishery/Citizen Science



Pilot study in U.S. Caribbean to characterize habitats targeted by deep-water snapper fishery

2016-2017 SEDCI Fieldwork



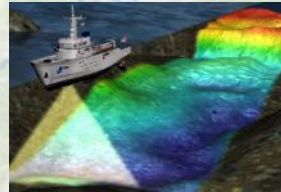
R/V Manta

77 ROV dives



Nancy Foster

13 ROV dives



Nancy Foster

480 km² mapped



NOAA Ship Pisces

10 AUV dives



Okeanos Explorer

17 ROV dives

2018 Fieldwork (9 Expeditions; 116 days at sea)



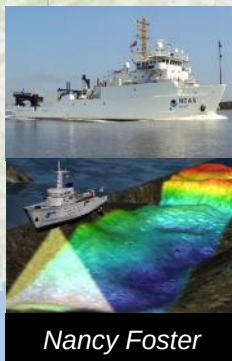
Manta

15 ROV days in
FGBNMS



Okeanos Explorer

23 ROV days in
Gulf of Mexico



Nancy Foster

26 mapping
days in South
Atlantic Bight



Okeanos Explorer

22 ROV days in
South Atlantic
Bight



Atlantis

19 HOV days in
South Atlantic
Bight

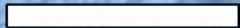


Nancy Foster

11 ROV days in
U.S. Caribbean



500 km



2018 SEDCI expeditions

Vessel	Lead	Ports	Region	Dates	Primary operations	Primary Funding
<i>Nancy Foster</i>	Demopoulos (USGS)	Charleston–Charleston	South Atlantic Bight	TBD (*awaiting ship repairs)	Mapping	DEEP SEARCH
<i>Nancy Foster</i>	Sutton (NSU)	Charleston–Jacksonville	South Atlantic Bight	TBD (*awaiting ship repairs)	Mapping	DEEP SEARCH
<i>Okeanos Explorer</i>	Skarke (MSU) & Wagner (NOAA)	Galveston–Key West	Gulf of Mexico	4/11–5/3	ROV <i>Deep Discoverer</i>	OER
<i>Okeanos Explorer</i>	Morrison (USGS) & Sautter (COC)	Charleston–Norfolk	South Atlantic Bight	6/6– 6/27	ROV <i>Deep Discoverer</i>	OER
<i>Nancy Foster</i>	Battista (NOAA)	San Juan–San Juan	Caribbean	6/25– 7/5	Mapping & ROV <i>Mohawk</i>	CRCP
<i>Manta</i>	Hickerson (NOAA)	Galveston–Galveston	Gulf of Mexico	7/21–7/26	ROV <i>Mohawk</i>	FGBNMS/ SEDCI
<i>Atlantis</i>	Cordes (TU)	Woods Hole–Woods Hole	South Atlantic Bight	8/16–9/3	HOV <i>Alvin</i>	DEEP SEARCH
<i>Manta</i>	Hickerson	Galveston–Galveston	Gulf of Mexico	9/6–9/11	ROV <i>Mohawk</i>	FGBNMS/ SEDCI
<i>Manta</i>	Herrera (LU)	Galveston–Galveston	Gulf of Mexico	9/18–9/23	ROV <i>Mohawk</i>	RESTORE/ SEDCI

Our Team

Name	Affiliation
DSCRTP	
Tom Hourigan	NMFS/DSCRTP
Heather Coleman	NMFS/DSCRTP
Leadership & Coordination	
Peter Ethoyer	NOS/NCCOS
Daniel Wagner	NOS/NCCOS
Science Team	
Tim Battista	NOS/NCCOS
Andrew David & Stacey Harter	NMFS/SEFSC
Caitlin Adams	OAR/OER
Martha Nizinski	NMFS/NSL
G.P. Schmahl & Emma Hickerson	NOS/FGBNMS

Name	Affiliation
Project Leads	
Andy David	NMFS/SEFSC
Matt Poti	NOS/NCCOS
Travis Sterne & Marissa Nuttall	NOS/FGBNMS
John Reed	HBOI
Sandra Brooke	NOS/GRNMS
Charles Messing & Brian Walker	NSU
Data Management	
Robert McGuinn	NOS/NCCOS
Matt Dornback	NESDIS/NCEI
Fishery Management Councils	
Morgan Kilgour	GMFMC
Graciela Garcia-Moliner	CFMC
Chip Collier	SAFMC



NOAA FISHERIES



Research

INNOVATE INCUBATE INTEGRATE



NCCOS



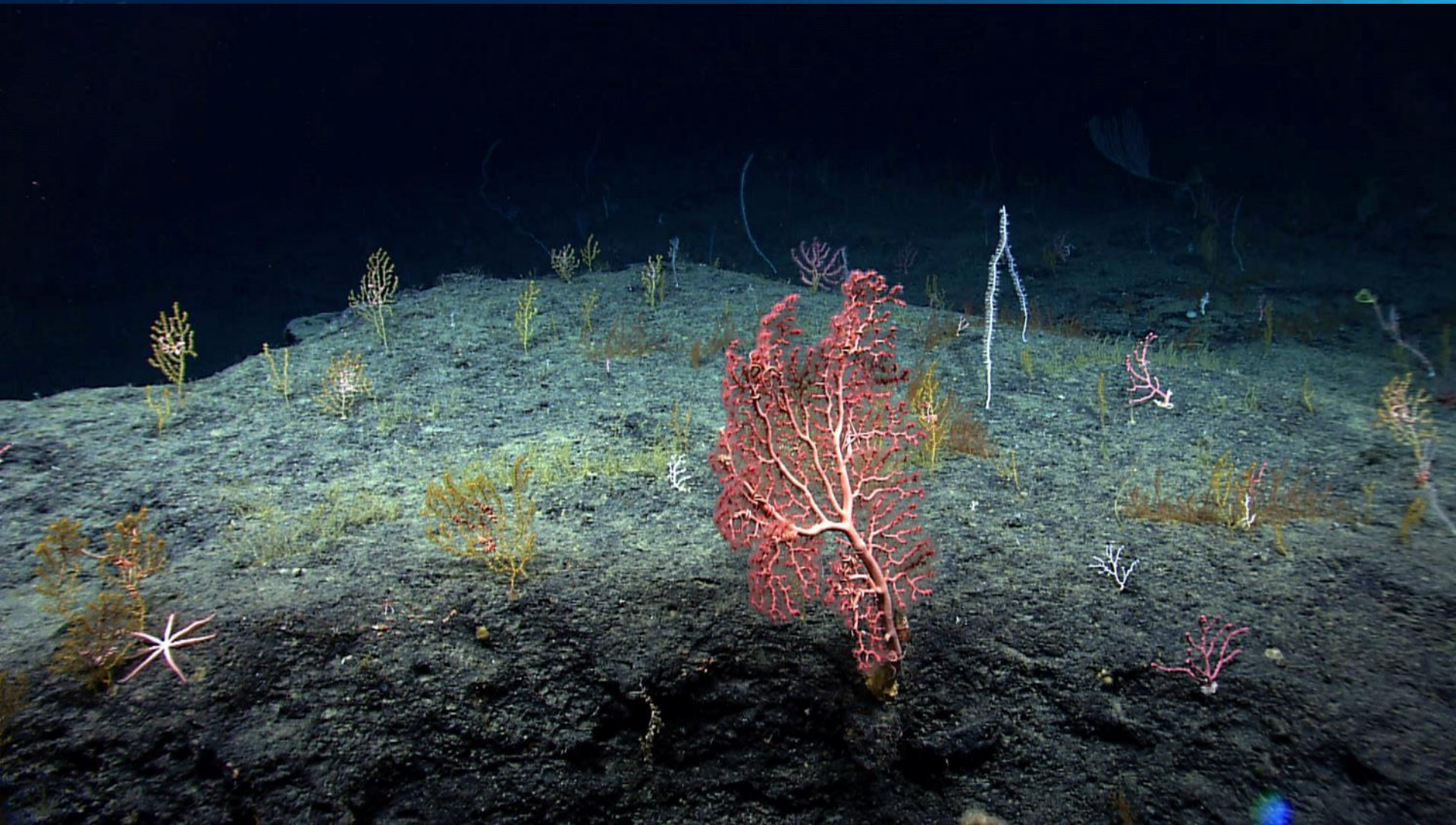
Ocean Exploration and Research



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POSITIONING AMERICA FOR THE FUTURE

Thank you!



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Daniel.Wagner@noaa.gov

<https://coastalscience.noaa.gov/project/southeast-deep-coral-initiative>