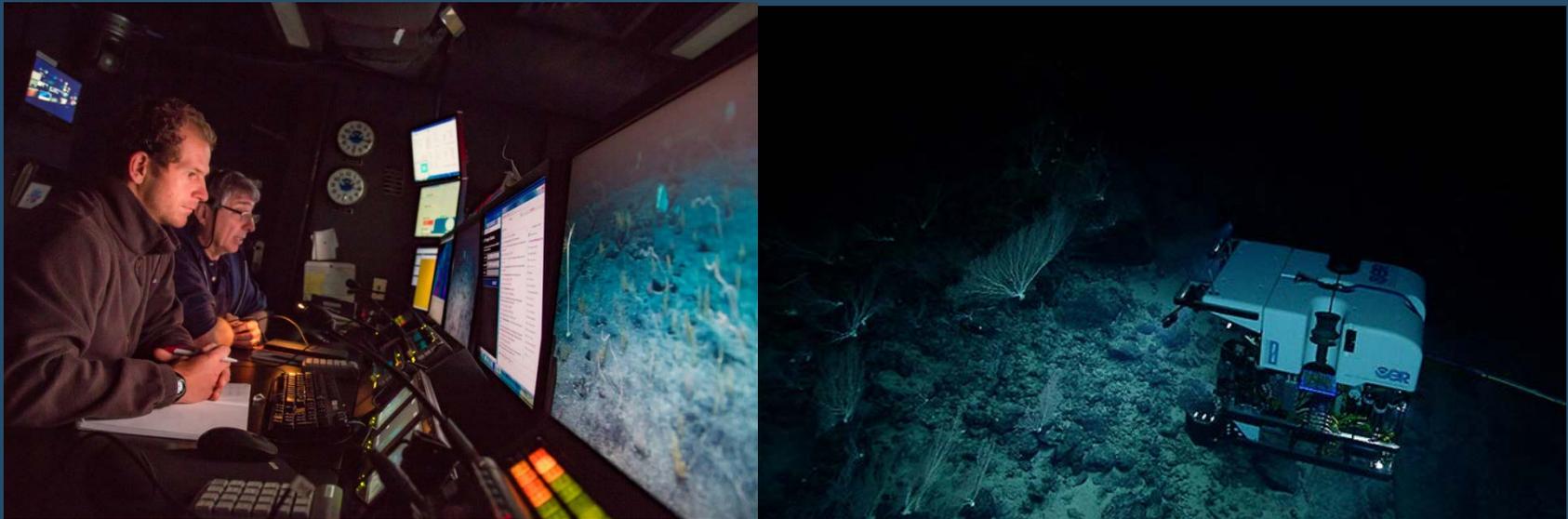




Ocean Exploration
and Research

Hohonu Moana: Exploring Deep Waters Off Hawai'i Expedition 2016



Daniel Wagner, Ph.D.

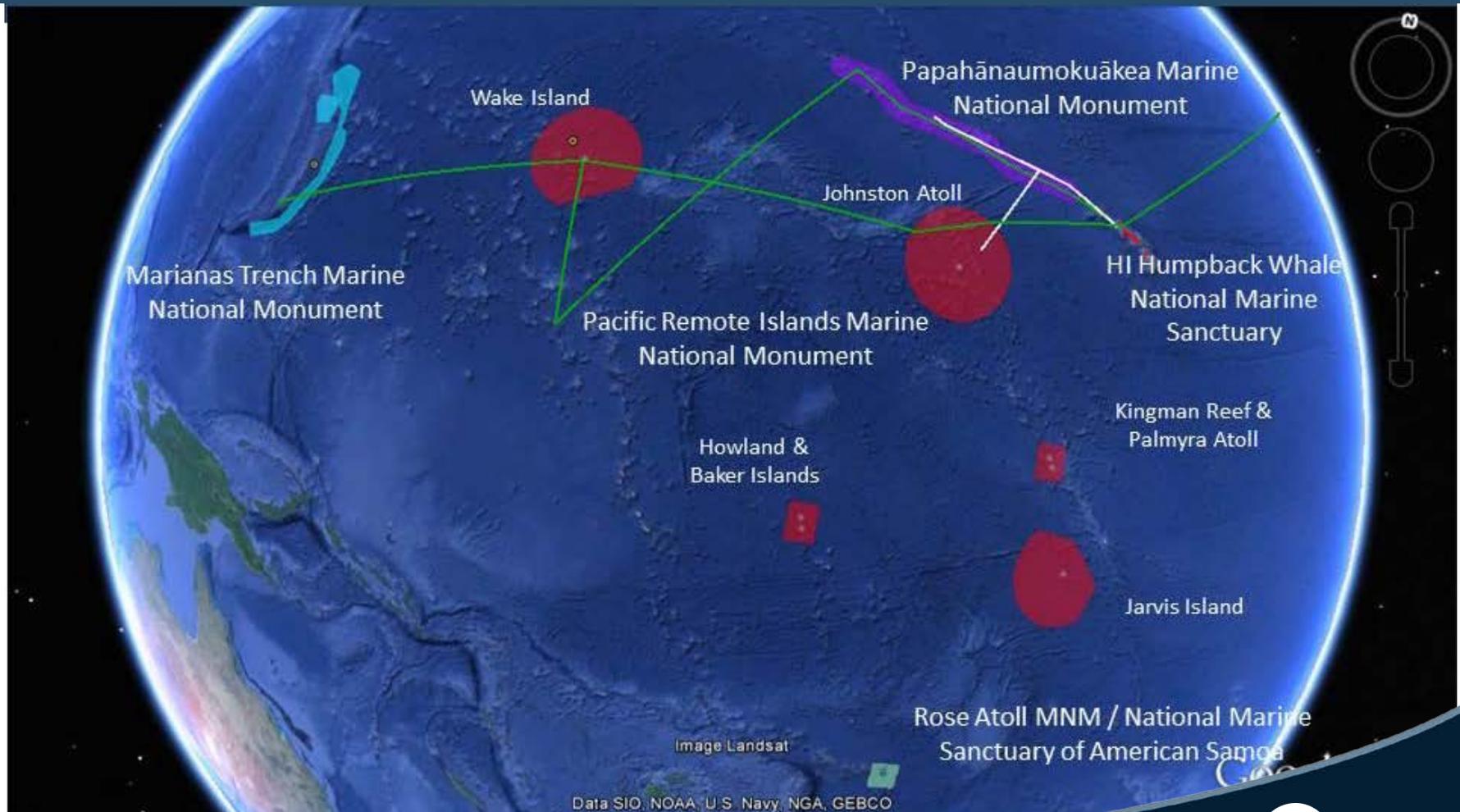
Papahānaumokuākea MNM

February 17, 2016



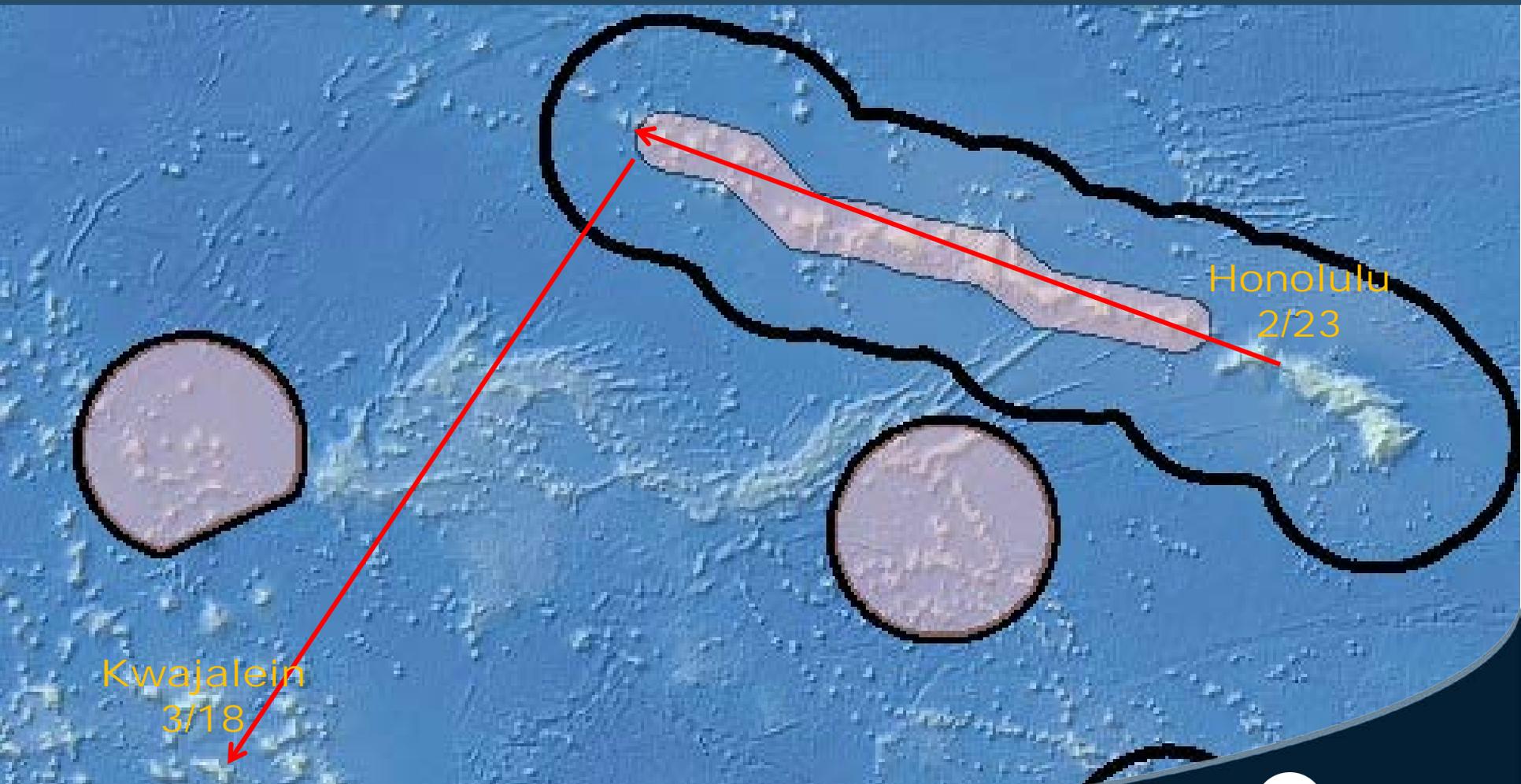
PAPAHĀNAUMOKUĀKEA
Marine National Monument

Hohonu Moana: Exploring Deep Waters Off Hawai'i Expedition 2016

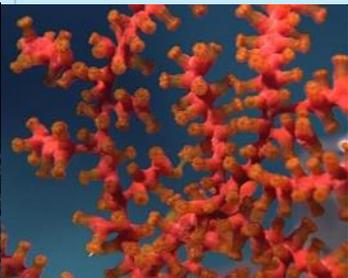


CAPSTONE: Campaign to Address Pacific monument Science, Technology, and Ocean Needs

2016 Expeditions



Papahānaumokuākea Marine National Monument & World Heritage Site



NOAA Ship *Okeanos Explorer*



- Only fully dedicated ship to exploration in U.S.
- Linked in real time through telepresence technology

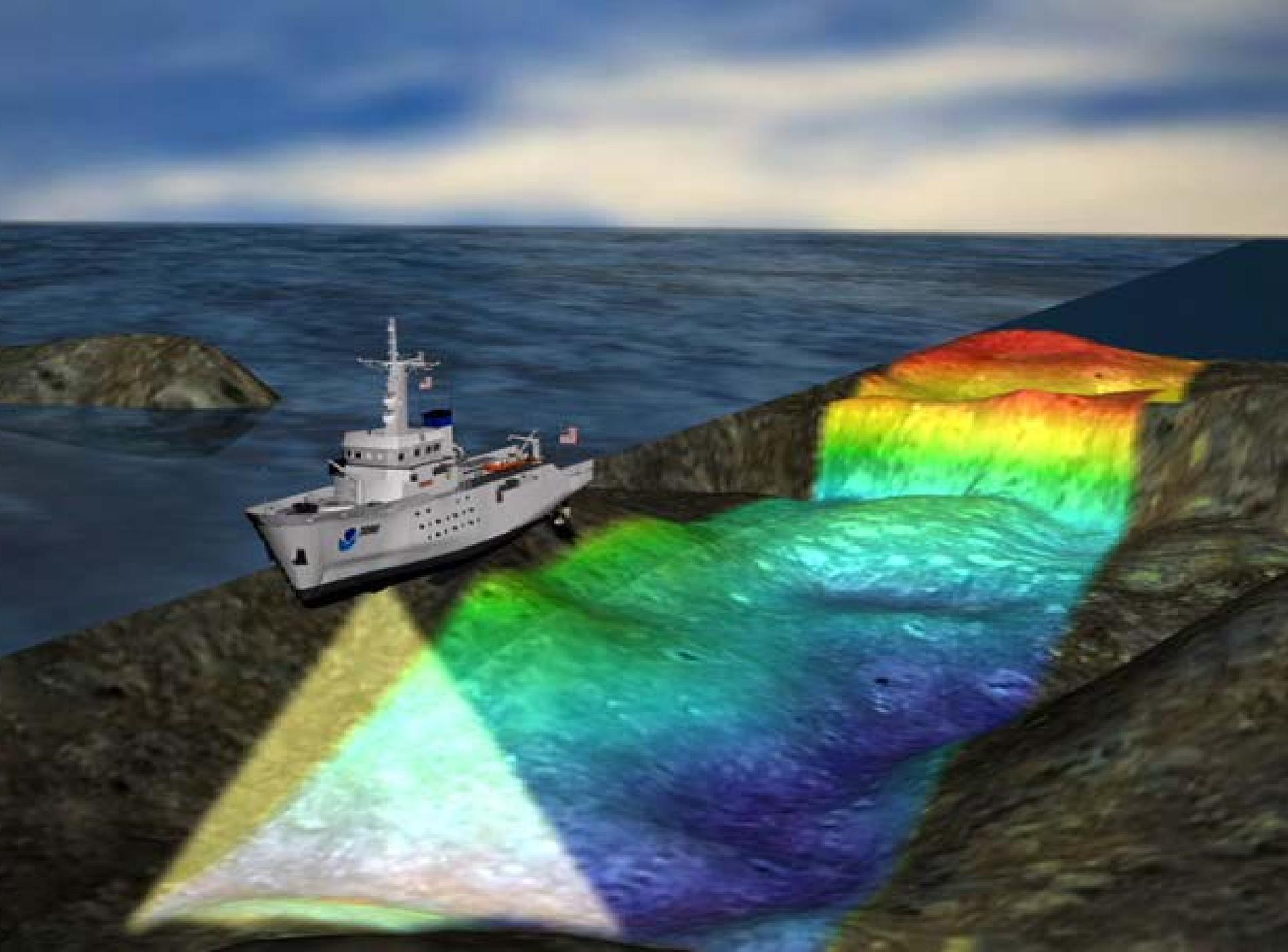
- 224 feet
- 46 berths
- 40-days

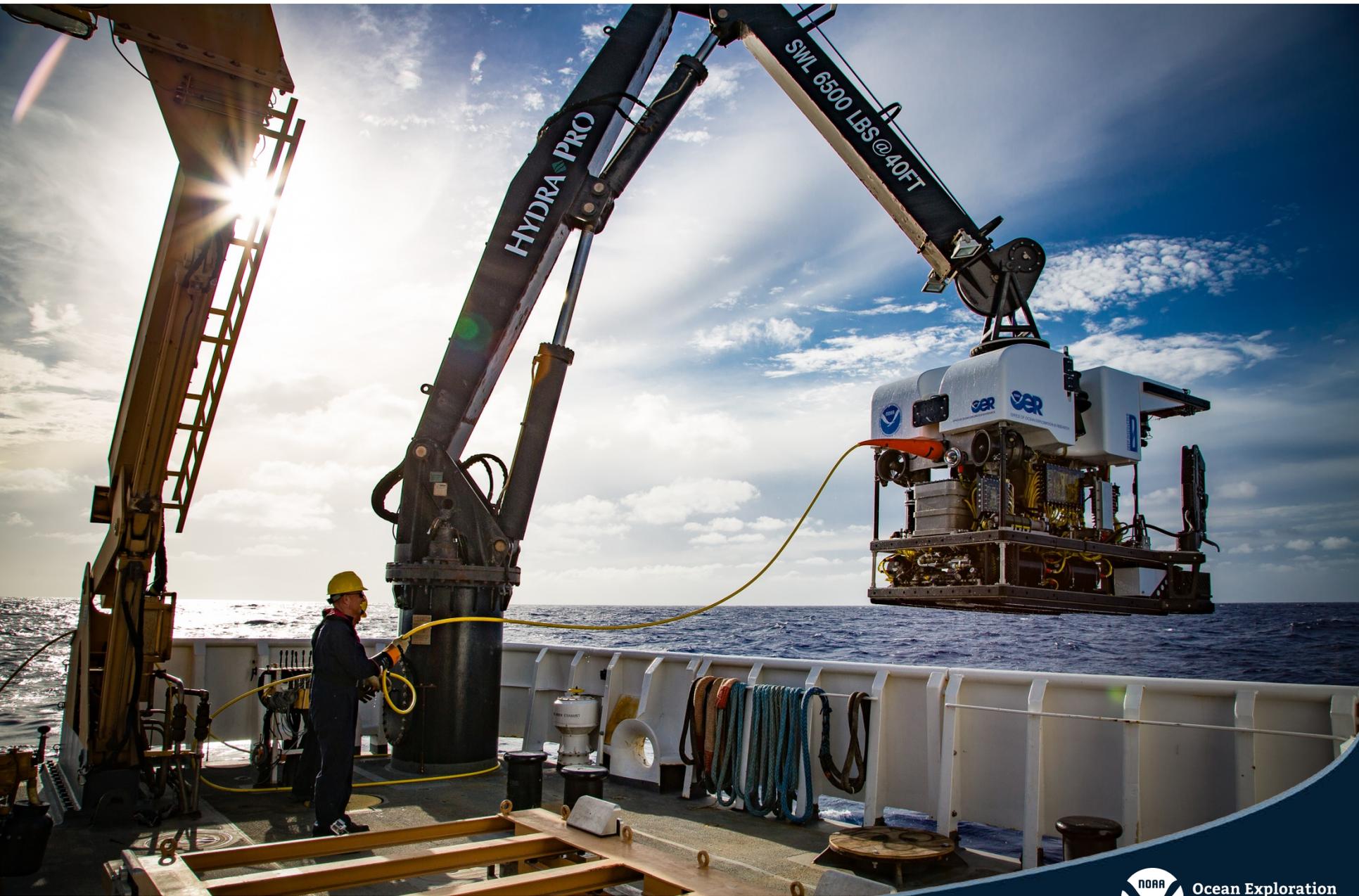
OceanExplorer.NOAA.gov



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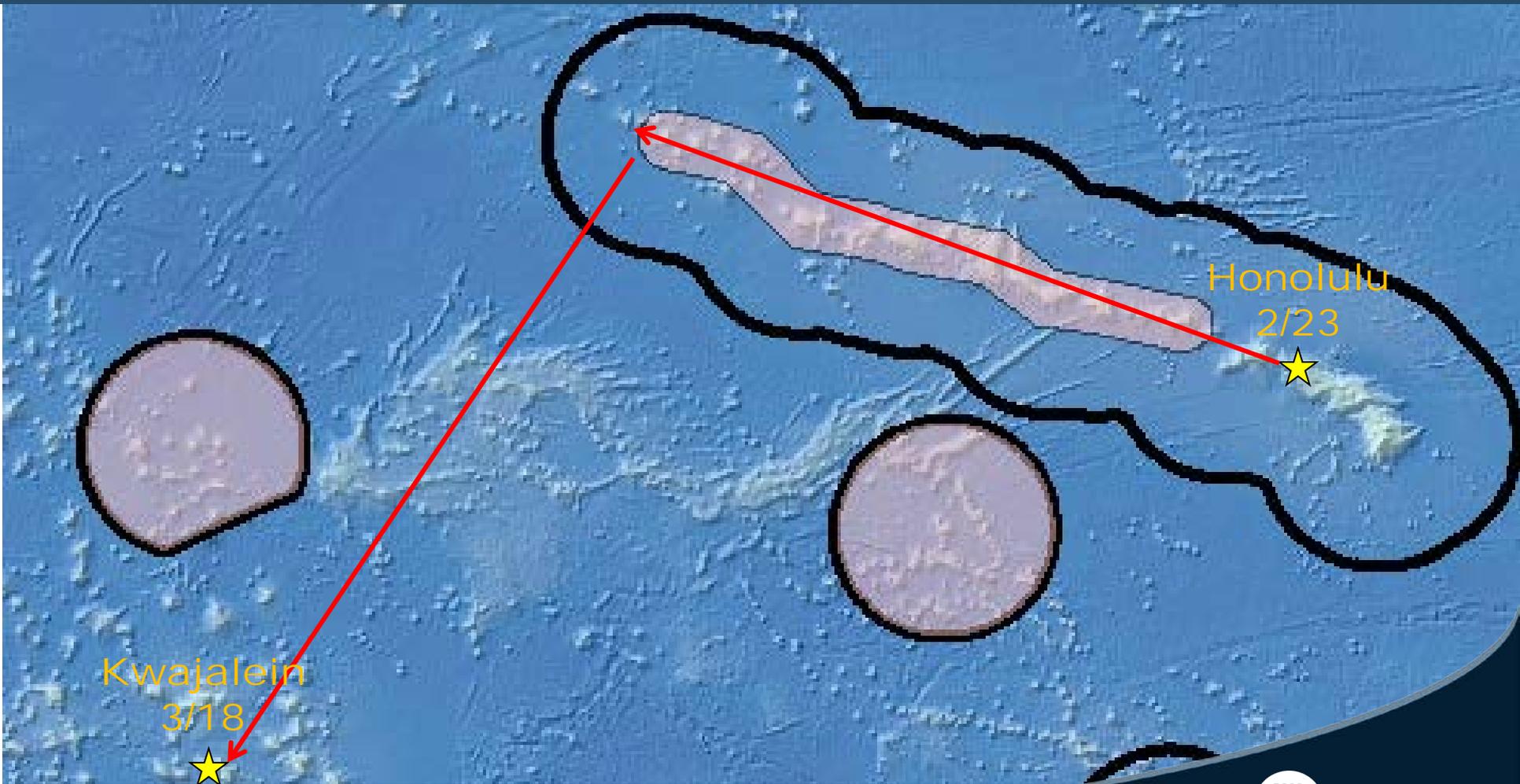




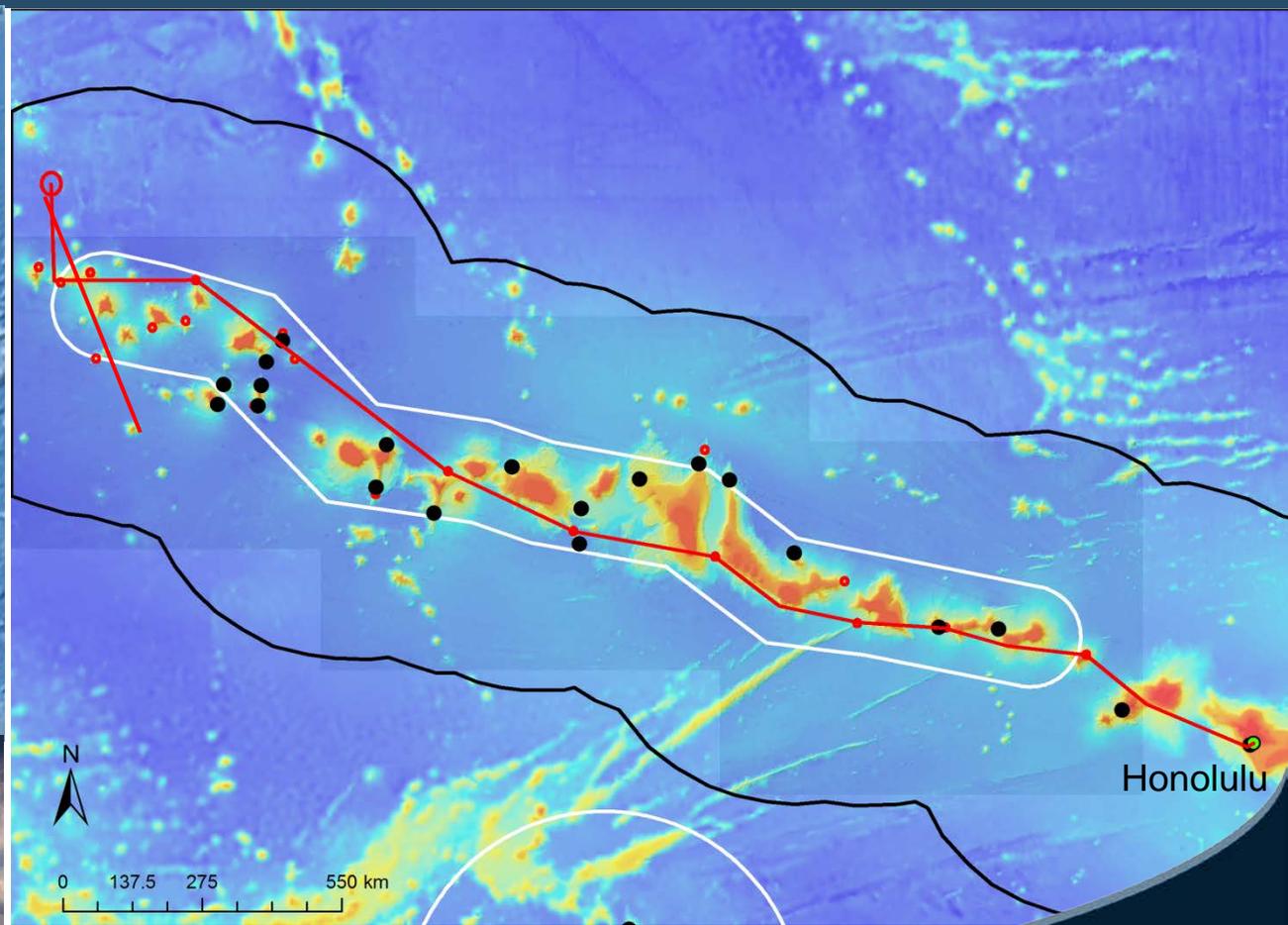
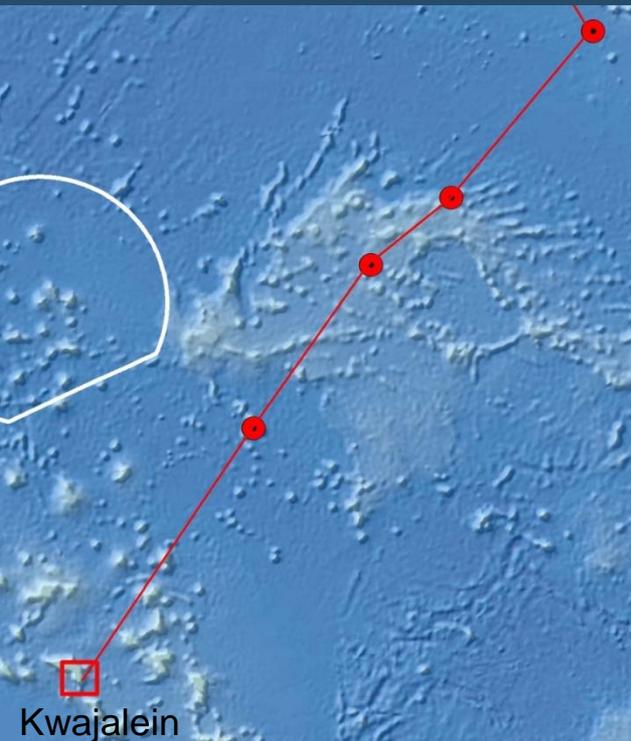


Ocean Exploration
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Hohonu Moana: Exploring Deep Waters Off Hawai'i Expedition 2016

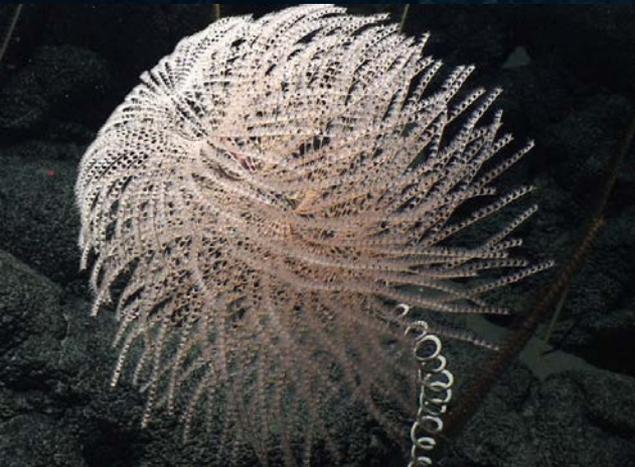


Hohonu Moana: Exploring Deep Waters Off Hawai'i Expedition 2016



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Hohonu Moana: Exploring Deep Waters Off Hawai'i Expedition 2016

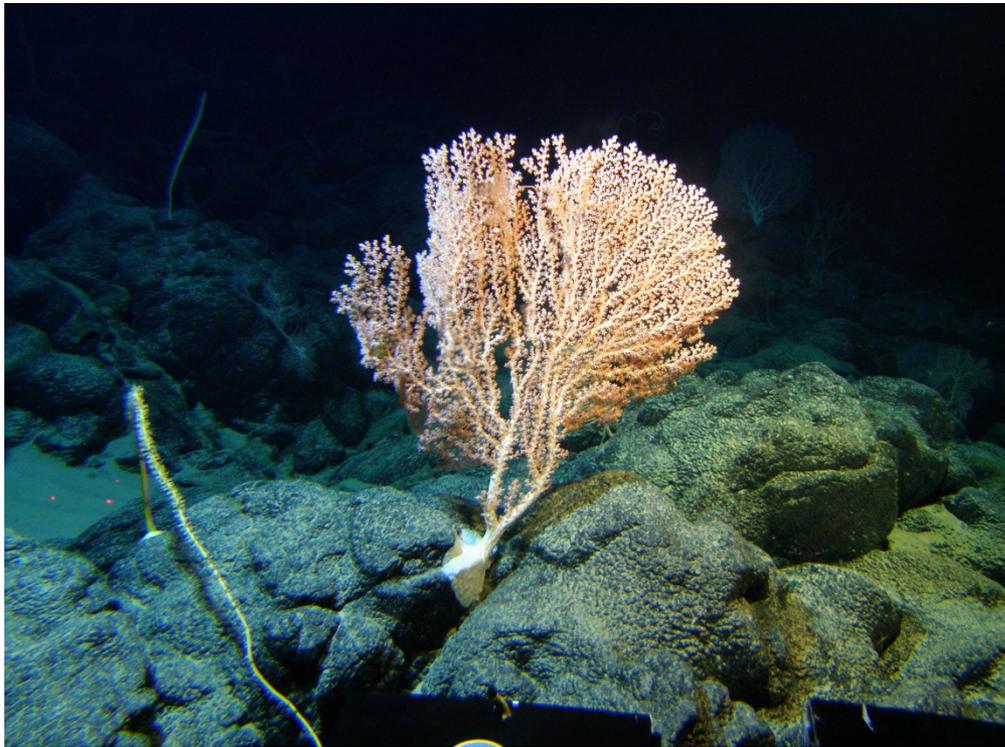


Why Hawaii?

- Most isolated location on Earth
- Known for unique species; Northwestern Hawaiian Islands mostly unexplored
- Fascinating geologic histories and topographies
- Located in a prime area for deep-sea mining in the future
- Some baseline data already exists



Hohonu Moana: Exploring Deep Waters Off Hawai'i Expedition 2016

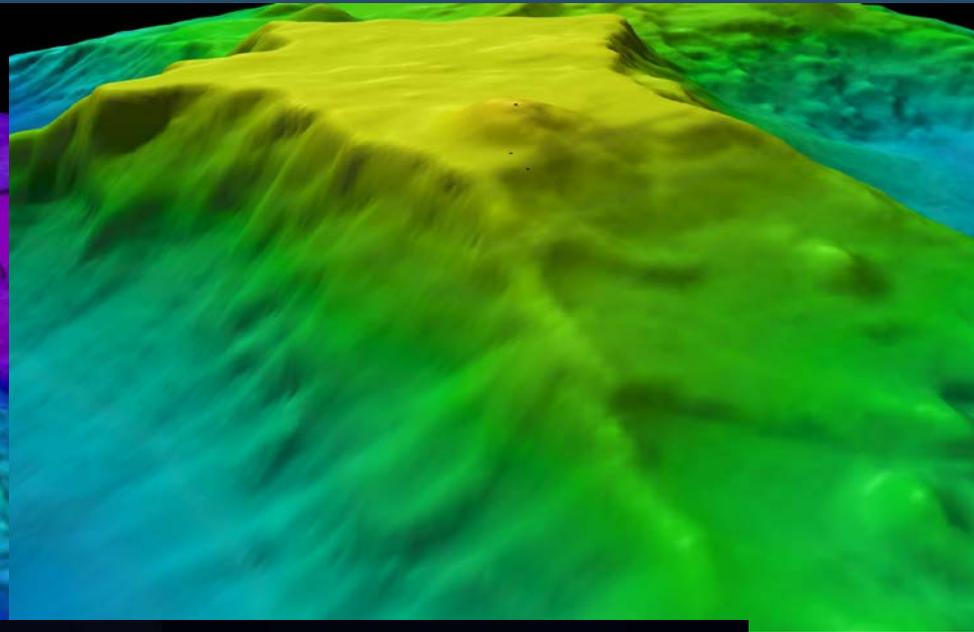
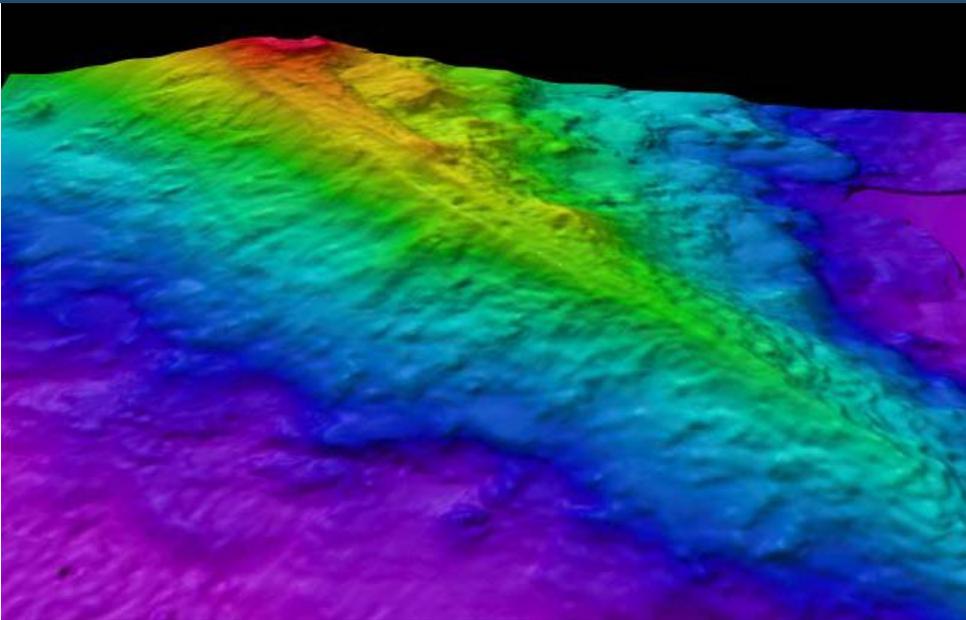


Exploration Focus

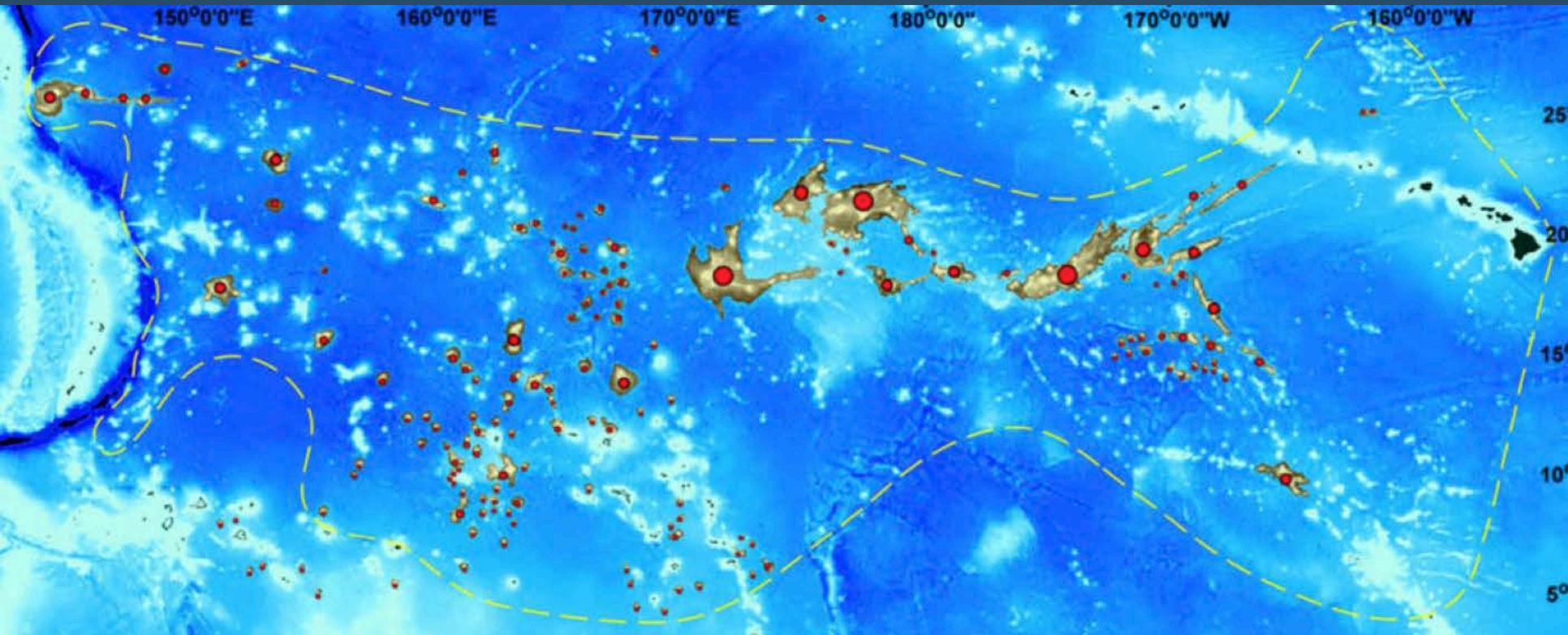
- Searching for large-scale, high-density deep coral and sponge communities.
- Collecting baseline data critical to managing and protecting vulnerable deep-sea marine habitats.



Steep Ridge Topography



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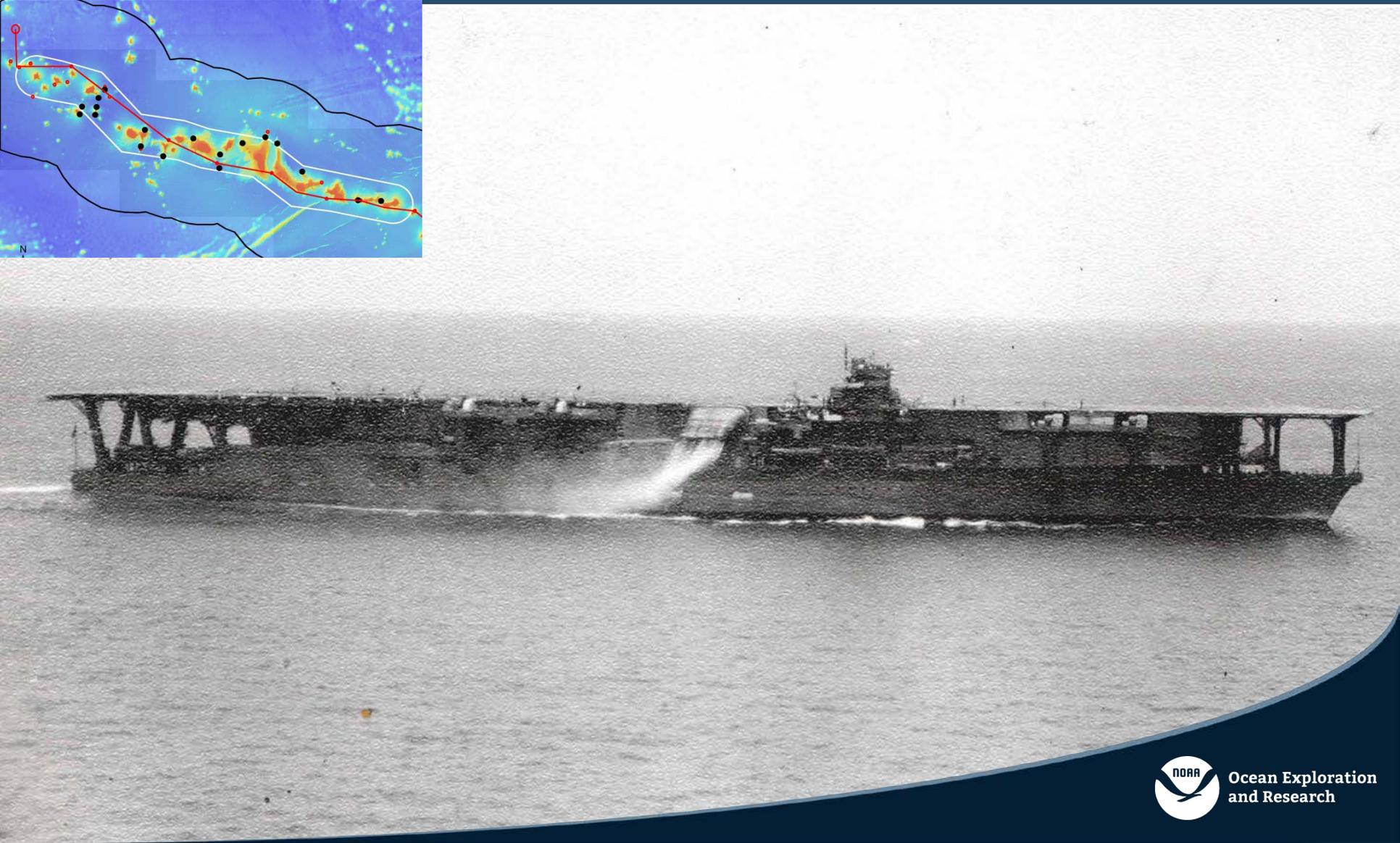
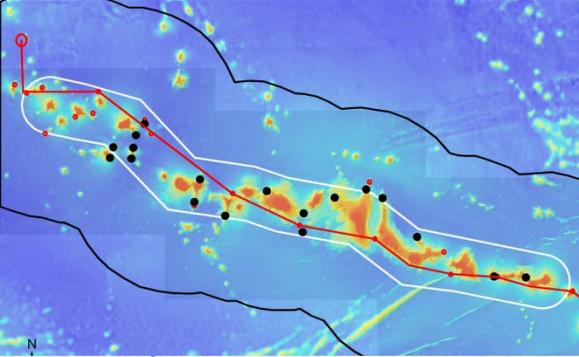


Prime Crust Zone



Ocean Exploration
and Research

Battle of Midway Sites

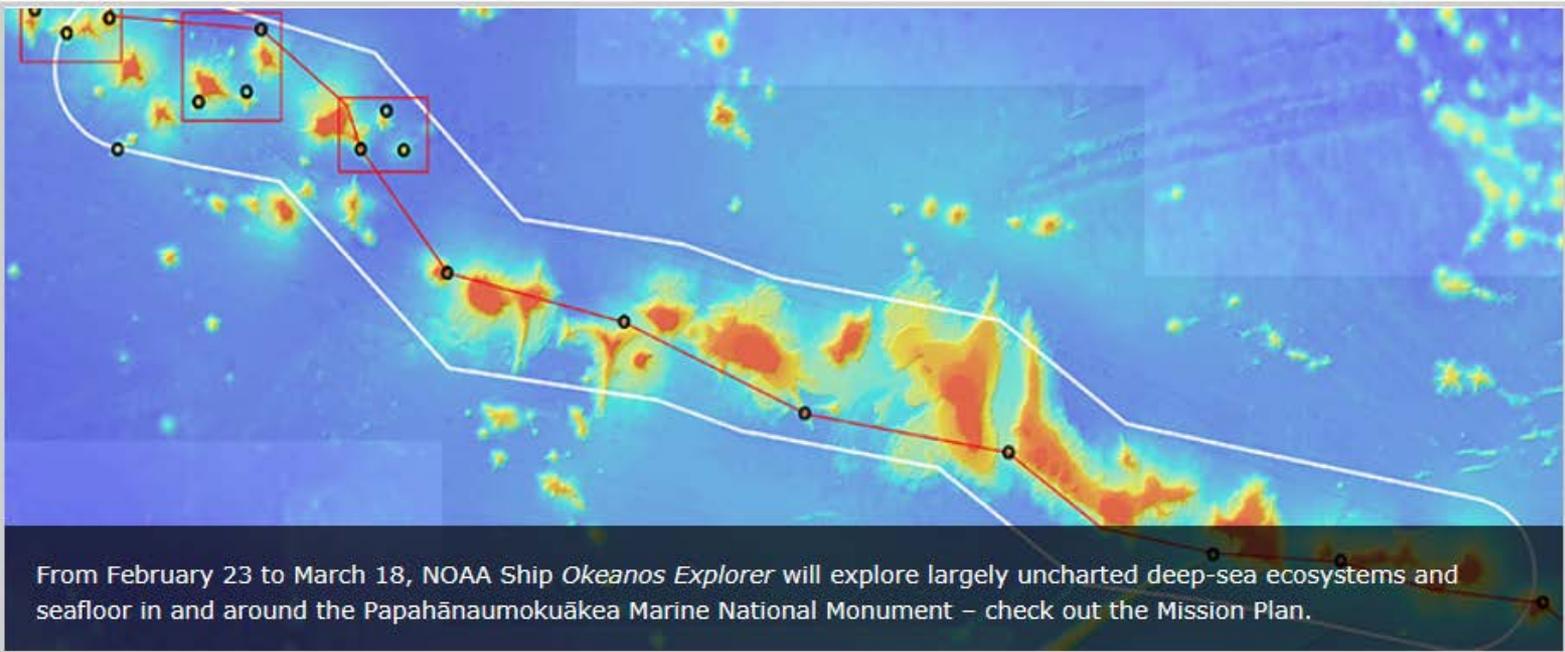


Okeanos Explorer

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2016 Hohonu Moana: Exploring Deep Waters off Hawai'i

[Live Video](#) | [Daily Updates](#) | [Mission Logs](#) | [Photos & Videos](#) | [Education](#) | [Background](#)

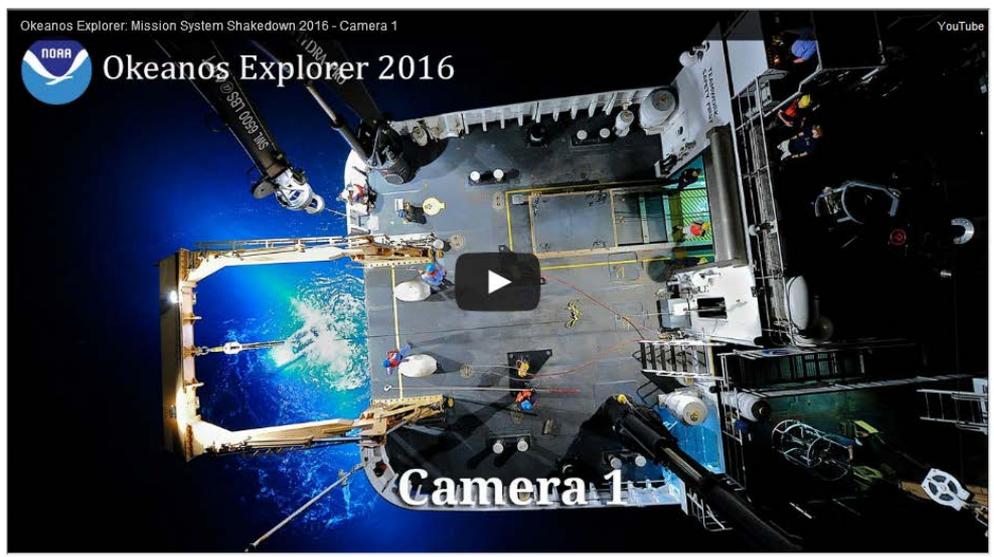


From February 23 to March 18, scientists will continue 2015 Hohonu Moana expedition efforts to explore deep-water habitats in and around Papahānaumokuākea Marine National Monument. The expedition will include work on seamounts in the Mid-Pacific Mountains while en route to port in Kwajalein. [Read more...](#)

Ocean Explorer Website and Expedition Education Module



[Troubleshooting the Audio & Video Feeds](#) | [What Are You Seeing?](#)



Camera #1 | Camera #2

OceanExplorer.NOAA.gov

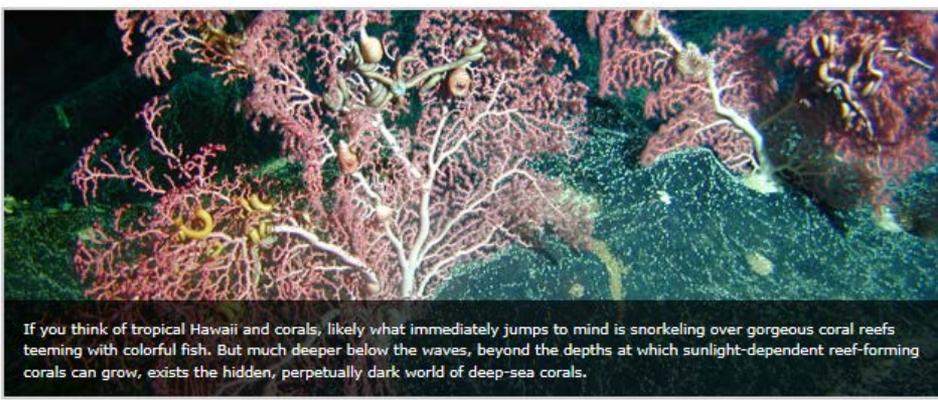
Education Resources:

- » Materials By Theme
- » Lessons
- » Expedition Education Modules
- » OceanAGE Careers

Ocean Explorer Website and Expedition Education Module

2016 Hohonu Moana: Exploring Deep Waters off Hawai'i

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If you think of tropical Hawaii and corals, likely what immediately jumps to mind is snorkeling over gorgeous coral reefs teeming with colorful fish. But much deeper below the waves, beyond the depths at which sunlight-dependent reef-forming corals can grow, exists the hidden, perpetually dark world of deep-sea corals.



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Education Resources:

- » Background Essays
- » Mission Logs
- » Daily Updates
- » Education
- » Photos and Videos

background essays



Mission Plan
 Papahānaumokuākea Marine National Monument
 The Search for the Japanese Aircraft Carriers of the Battle of Midway

[more >](#)

daily updates



mission logs



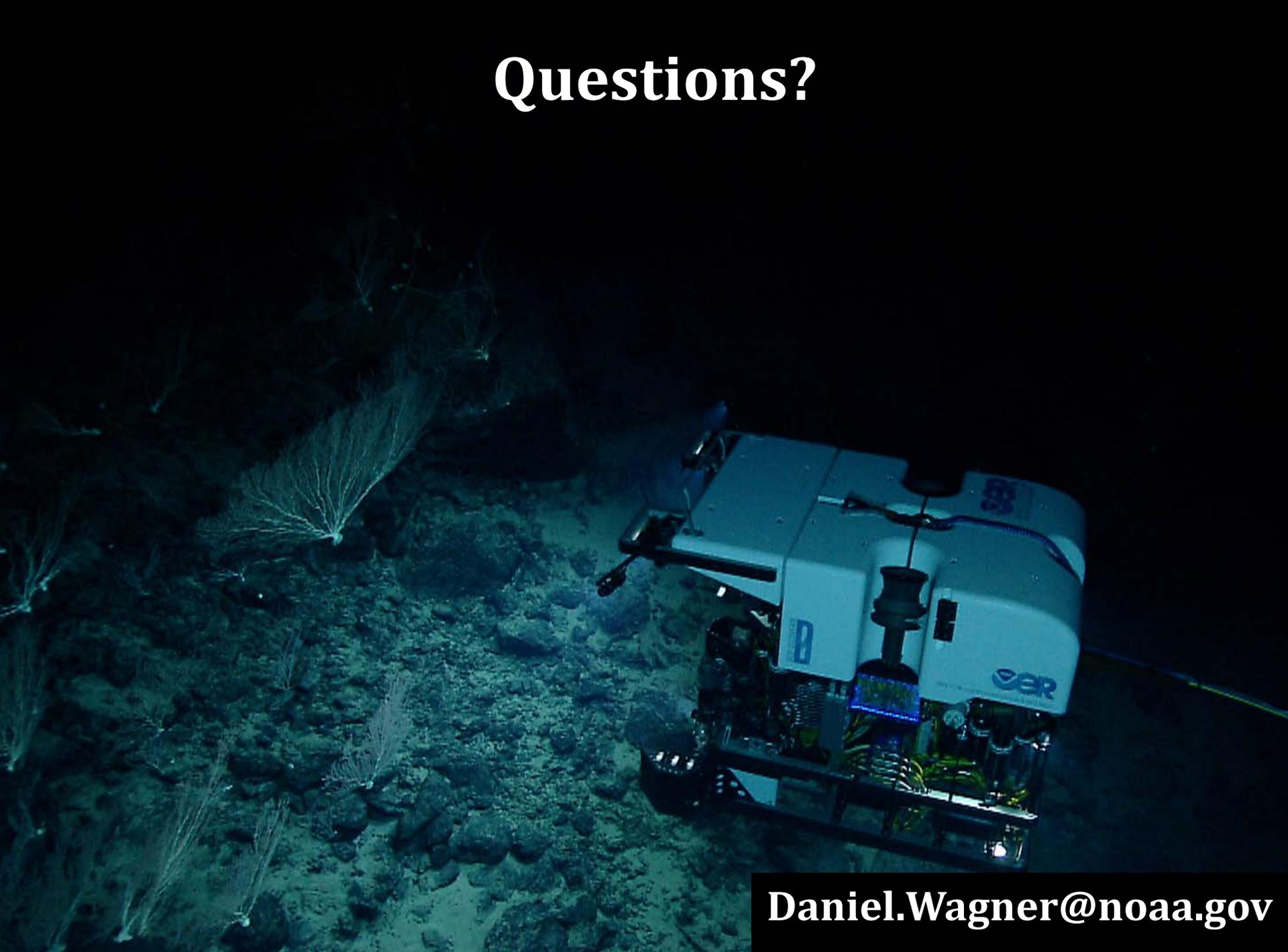
education



photos & videos



Questions?



Daniel.Wagner@noaa.gov