

February 24, 2022

---

Ocean Exploration Trust extends our deepest gratitude to the crew of E/V *Nautilus*, the majority of whom call Ukraine home. As Russia's unprovoked assault on Ukraine progresses, we are doing everything within our capability and capacity to support our crew members aboard *Nautilus* and those that are home in the middle of this crisis. Our hearts are with our crew, their loved ones, and everyone impacted by this ruthless invasion on Ukraine.

**солідарно**



**NAUTILUS LIVE**  
OCEAN EXPLORATION TRUST

---

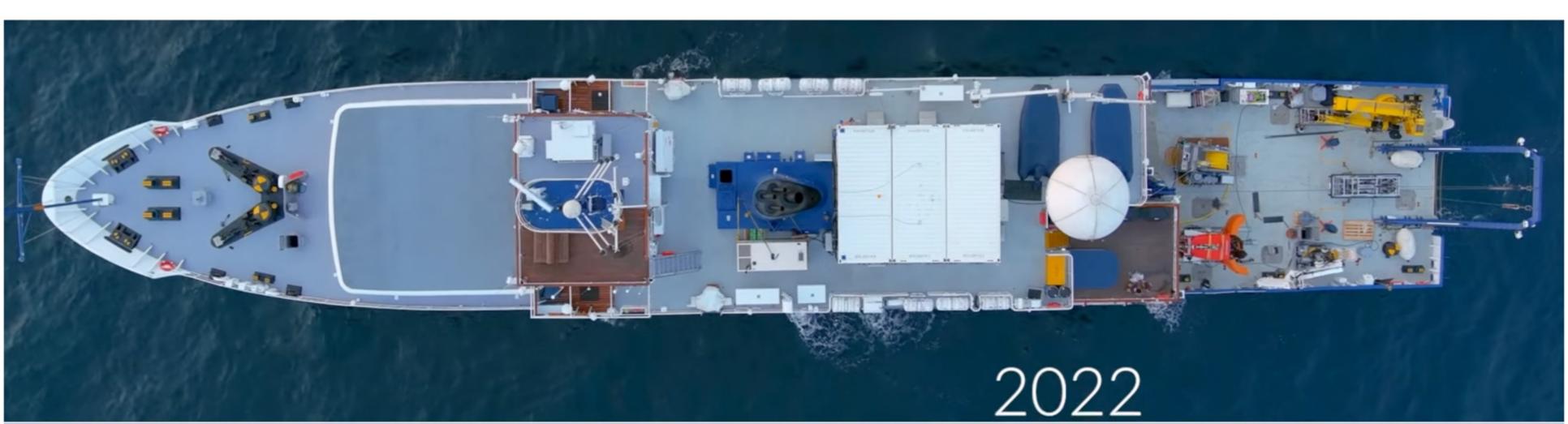
**UNOLS 2022 DeSSC Annual Meeting**  
ROV & Operations Update — 2.25.22





## VESSEL IMPROVEMENTS

- Stern extension (4m)  
*LOA 68.28m*
- Integration of new mobile Guerra knuckle-boom crane for UNH's USV DriX & OECl vehicles operations
- Additional cabins  
*50 person capacity*
- Integration of SCUBA capabilities (est July 2022)

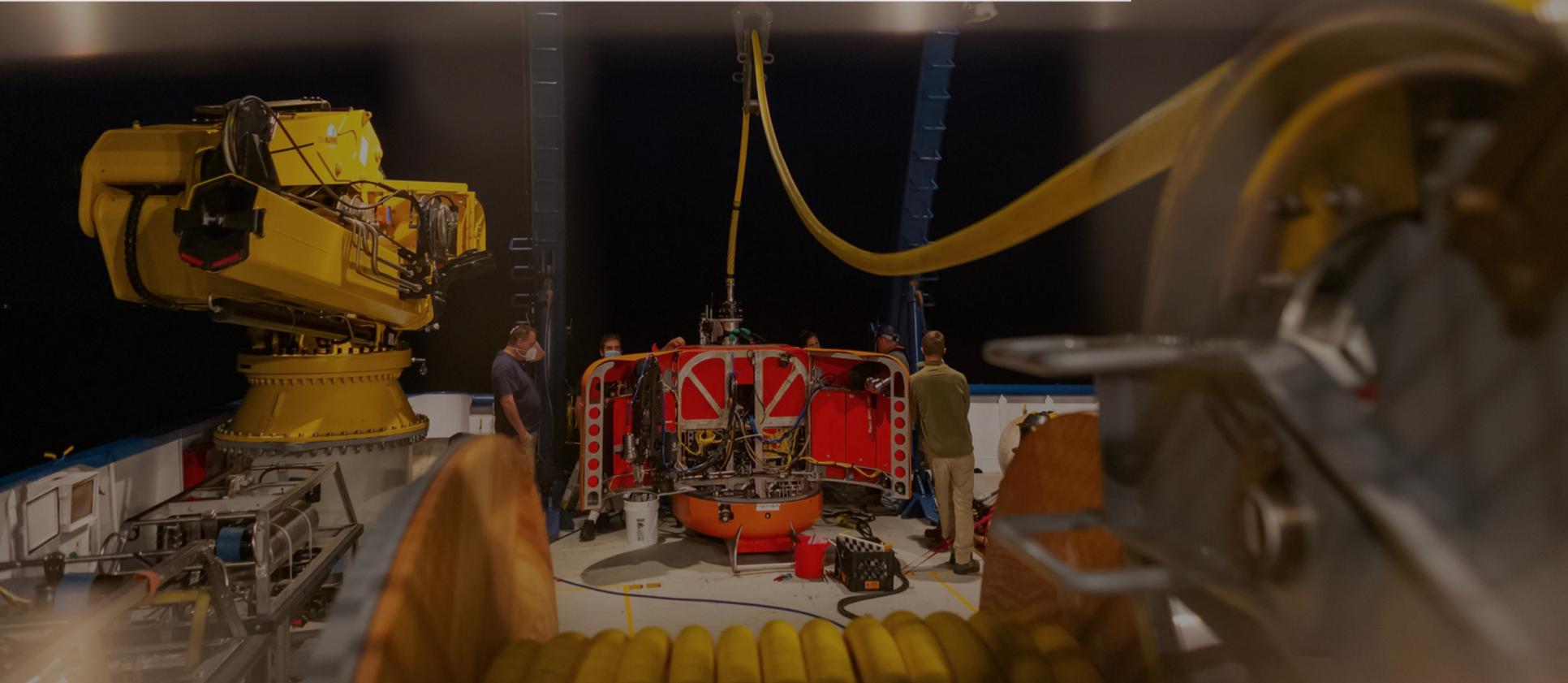
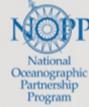


2022

2020



# 2021 E/V NAUTILUS FIELD SEASON





OCEAN NETWORKS CANADA

CASCADIA MARGIN

DEFERRED FROM 2020 DUE TO COVID-19

WEST COAST EEZ MAPPING

TECHNOLOGY DEMONSTRATIONS

OCEAN EXPLORATION COOPERATIVE INSTITUTE

PAPAHĀNAUMOKUĀKEA

MARINE NATIONAL MONUMENT

HAWAIIAN ISLANDS

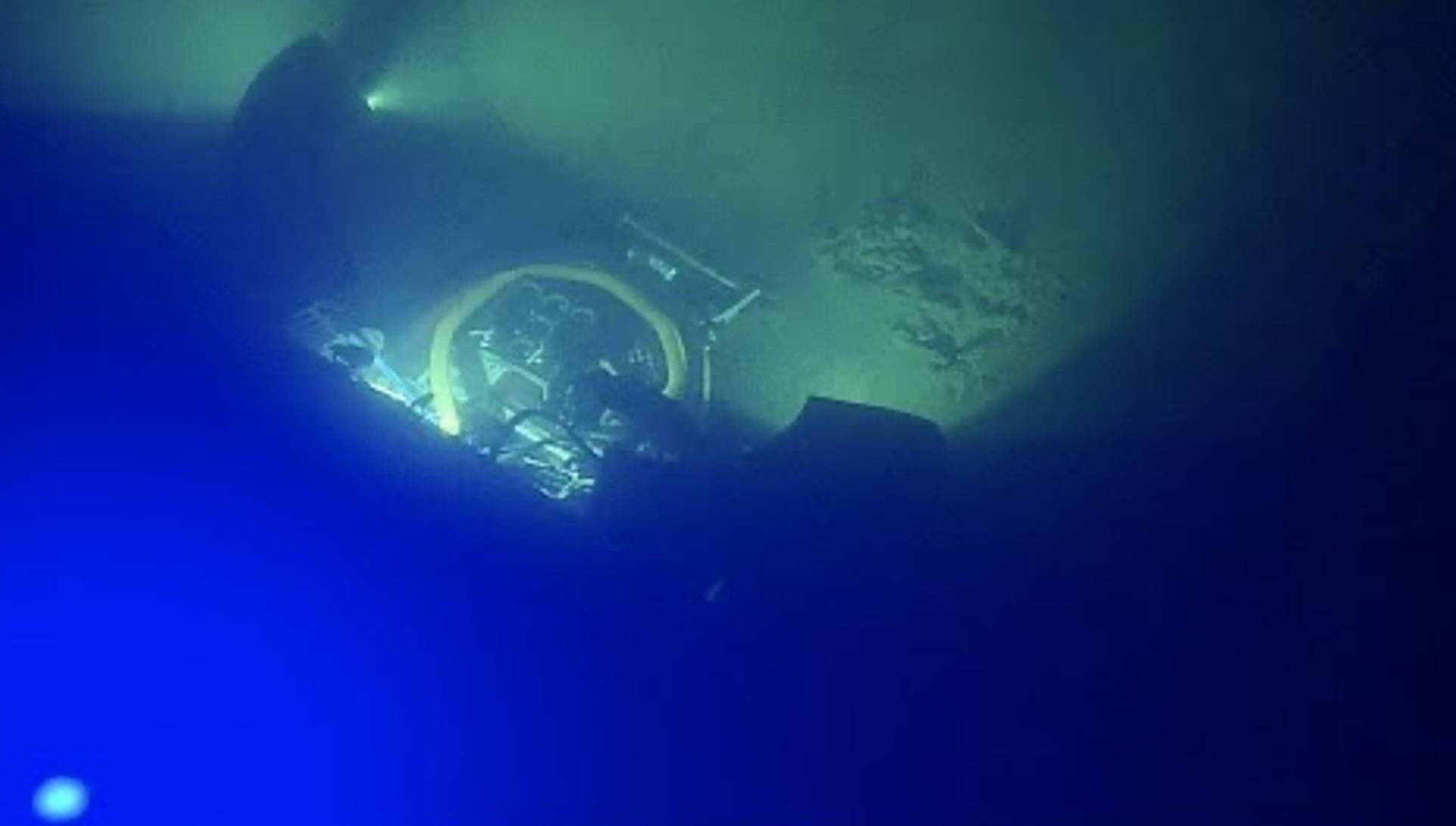
*Details and highlights from each expedition can be found at:*

[www.nautiluslive.org/expeditions/2021](http://www.nautiluslive.org/expeditions/2021)

# 2021 E/V NAUTILUS FIELD SEASON

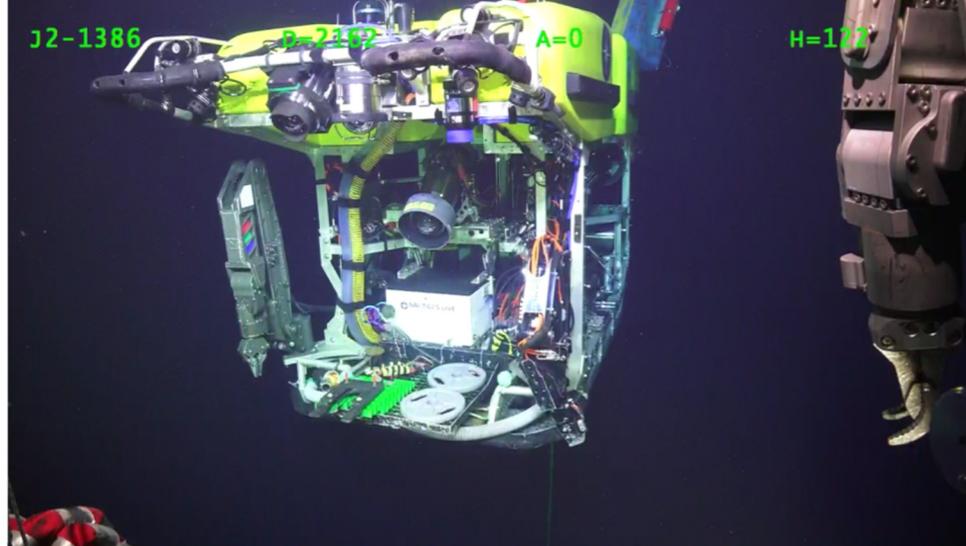
- **10** planned expeditions (July - Dec)
- **148** days at sea
- **60** ROV dives
- **107,000+** km<sup>2</sup> of seafloor mapped
- **9.1M** live stream views
- **341** ship-to-shore broadcasts reaching **13,000+** students in **12** countries
- **20** interns & educators participated aboard E/V *Nautilus* expeditions
- Following 2 videos highlight (1) OECI operations with WHOI's Mesobot and (2) OECI's operations with WHOI's HROV NUI

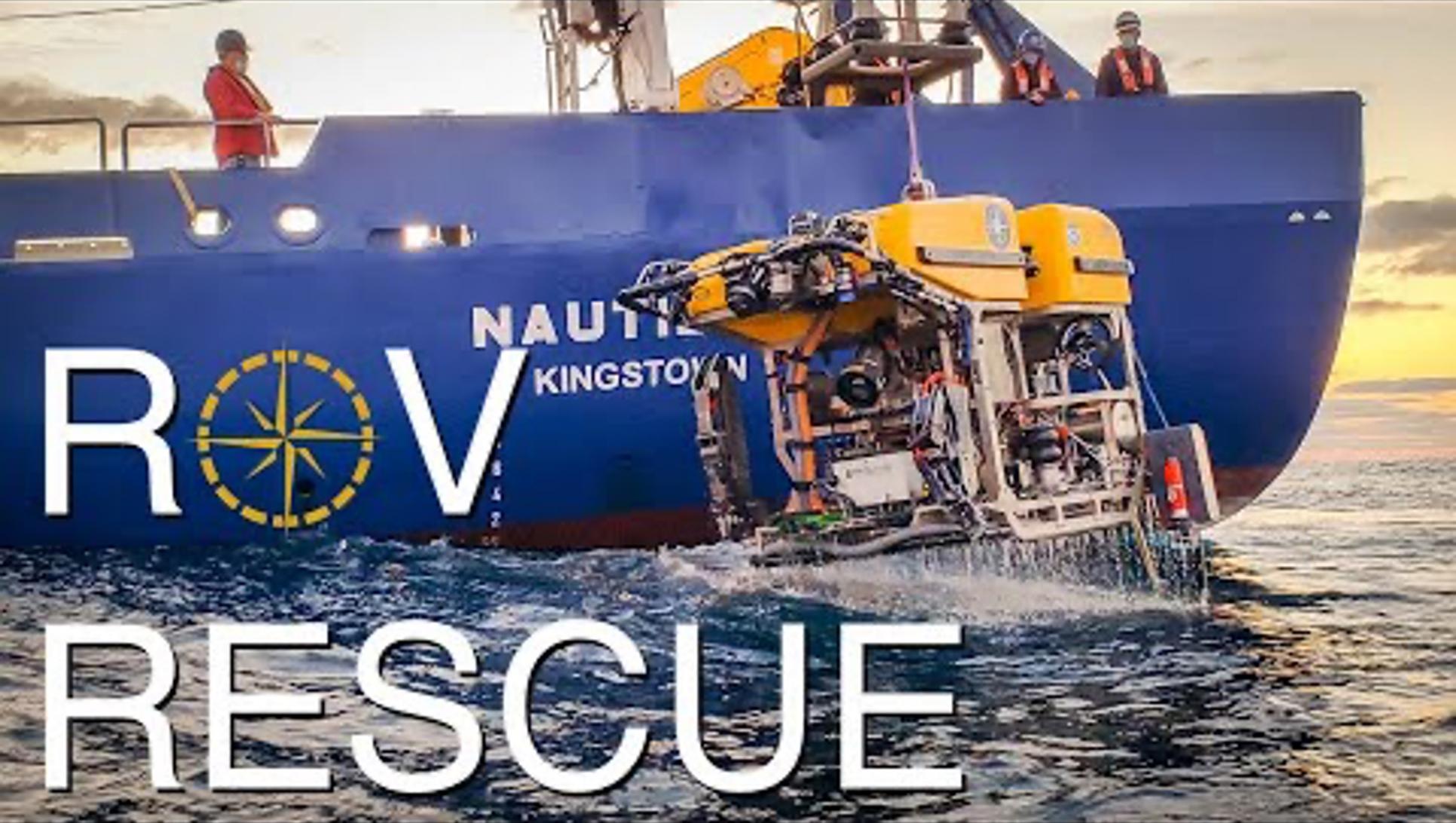




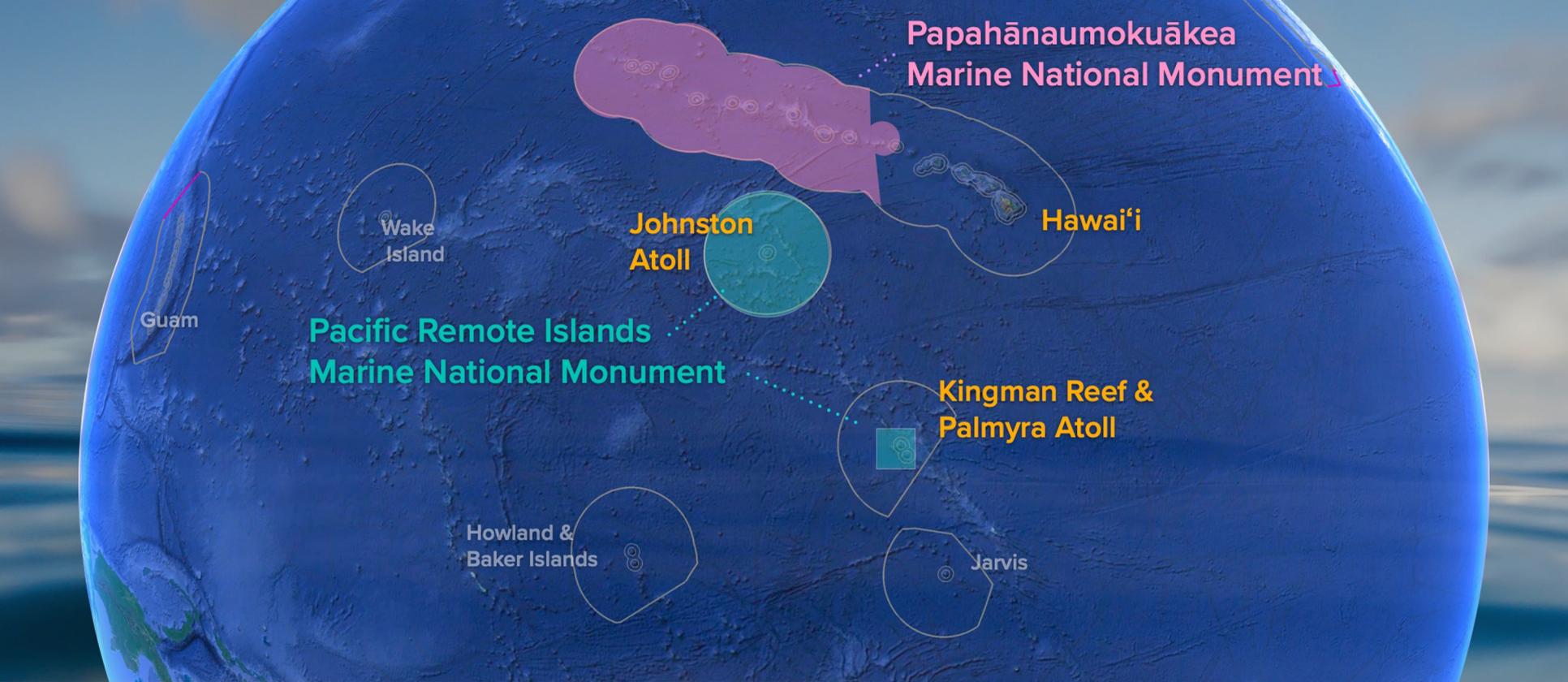
# ROV DETACHMENT & RECOVERY EFFORT

- On 8.26.21, OET's dual-bodied ROV system became detached at the termination to Towsled *Argus* while working at Endeavour with Ocean Networks Canada.
- The investigation for the cause is ongoing, however, the exact cause is still not clear. The vehicles suffered minimal damage and were put back into operation approximately 2 months later.
- With support from WHOI's ROV *Jason* team UW's R/V *Thompson* crew and marine ops team, UW OOI-RCA, NSF, UNOLS, and many others, we were able to recover the vehicles just 6 days after parting with them.
- The following video provides an overview of the recovery efforts from aboard E/V *Nautilus*.
- THANK YOU to everyone that came to our aid in the recovery efforts! We are forever grateful and appreciative of this great community.





ROV  
RESCUE



Papahānaumokuākea  
Marine National Monument

Hawai'i

Johnston  
Atoll

Pacific Remote Islands  
Marine National Monument

Kingman Reef &  
Palmyra Atoll

Jarvis

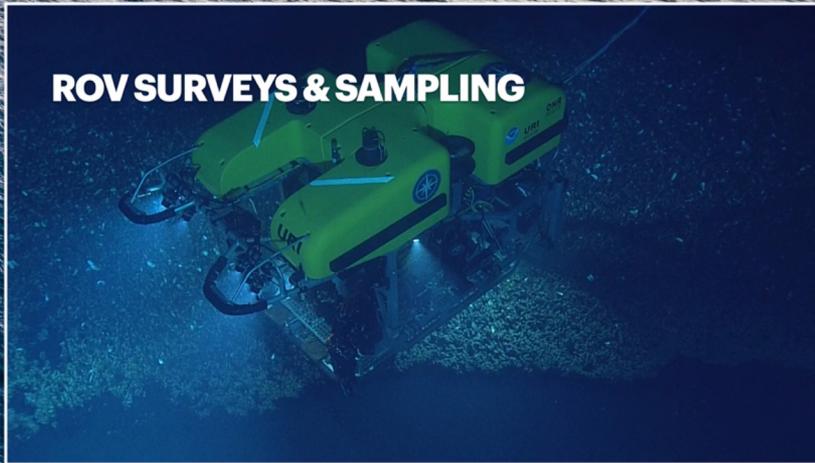
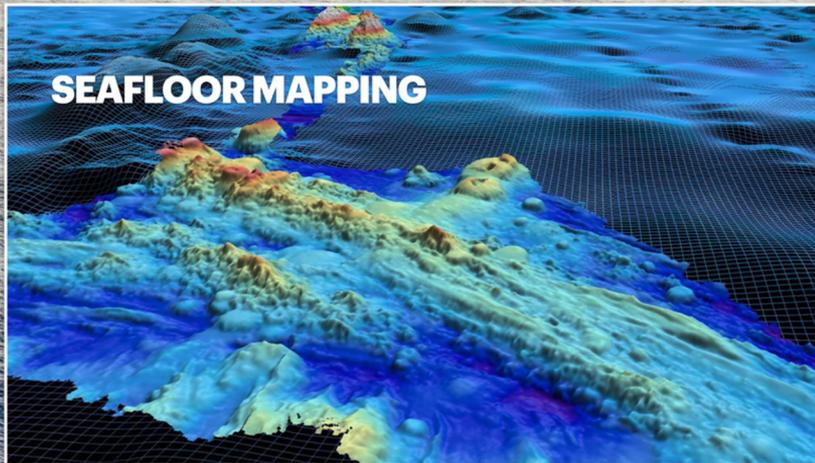
Howland &  
Baker Islands

Wake  
Island

Guam

# 2022 E/V Nautilus Field Season





# UNCREWED SYSTEMS ABOARD NAUTILUS IN '22



USV DriX (UNH)



HROV NUI (WHOI)



AUV *Mesobot* (WHOI)

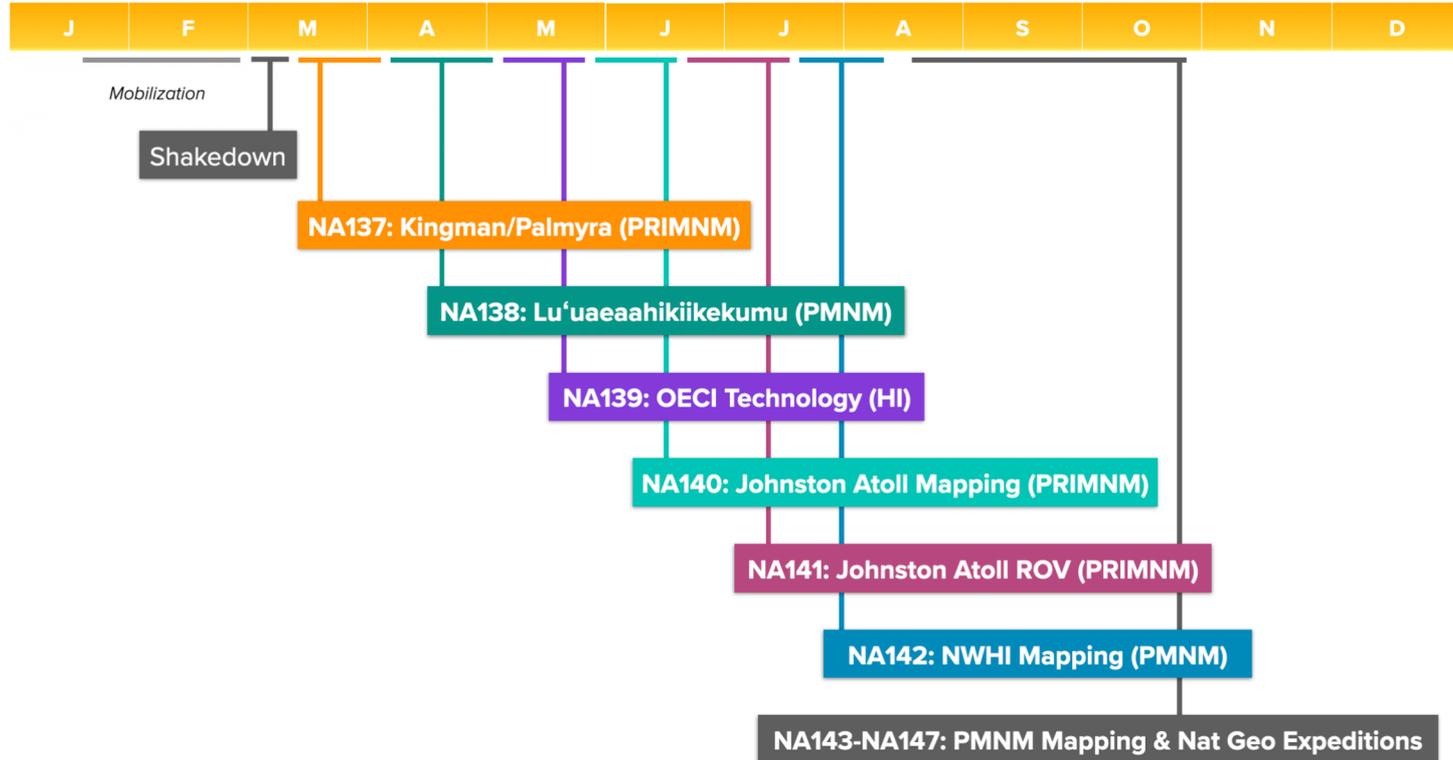
oeci

((o))



# 2022 OCEAN EXPLORATION TRUST EXPEDITIONS

## SEASON AT A GLANCE



# JOIN US!

- Sign up for OET's 2022 Scientist Ashore program to receive updates from each expedition, to offer input on dive and sample planning, and gain access to our Scientist Ashore web portal ([LINK](#))
- Schedule ship-to-shore interactions in English or 'Olēlo Hawai'i ([LINK](#))
- Find us at OSM22 ([LINK](#))



## OET SCIENTISTS ASHORE PORTAL

### UPCOMING 2021 EXPEDITIONS

<b>NA137: KINGMAN REEF &amp; PALMYRA ATOLL</b> Mar 14 - Apr 4, 2022	<b>NA138: LU'UAEAAHIKIIKEKUMU (PMNM LILI'UOKALANI RIDGE)</b> Apr 7 - May 1, 2022	<b>NA139: OECI TECHNOLOGY INTEGRATION</b> May 6 - May 21, 2022
<b>NA140: JOHNSTON ATOLL MAPPING</b> May 25 - Jun 18, 2022	<b>NA141: JOHNSTON ATOLL</b> Jun 20 - Jul 13, 2022	<b>NA142: DUAL-TECHNOLOGY SEAFLOOR MAPPING IN PMNM</b> Jul 16 - Aug 8, 2022

[See All Expeditions](#)

[info@oet.org](mailto:info@oet.org)

