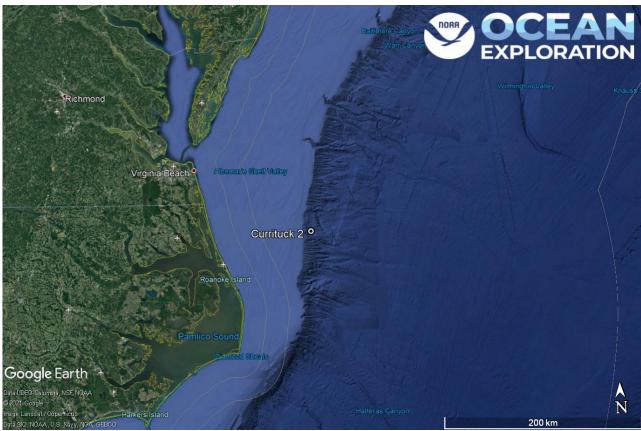


ROV Dive Summary, EX-21-03, Dive 02, June 16, 2021

General Location Map



Dive 02 named Currituck 2 on the shelf off of the North Carolina coast.

Dive Information

Site Name	Currituck 2
General Area Descriptor	US Mid-Atlantic, Currituck Landslide
Science Team Leads	Karl McLetchie
Expedition Coordinator	Kasey Cantwell/Matt Dornback
ROV Dive Supervisor	Karl McLetchie
Mapping Lead	Shannon Hoy
Dive Purpose	The second engineering dive of the ROV Shakedown. Primary objectives include testing new motors, motor controllers, lights, cameras, and hydraulic systems on the ROVs.

Was the dive	No
restricted for Underwater	
Cultural Heritage?	
ROV Dive Summary Data	Dive Summary: EX2103_DIVE02
Sammary Data	Dive Type: Normal
	In Water: 2021-06-16T12:42:12.974955 36.29015764752921 ; -74.6954781454037
	On Bottom: 2021-06-16T14:07:23.166876 36.29179358423762 ; -74.69892038073488
	Off Bottom: 2021-06-16T14:08:38.223418 36.29186131278553 ; -74.699065088851
	Out Water: 2021-06-16T14:25:37.567174 36.29211740954955 ; -74.70046137587988
	Dive Duration: 1:43:24
	Bottom Time: 0:1:15
	Max Vehicle Depth: 86.4 m
	Min Seafloor Depth: N/A m
	Distance Travelled: N/A m
Dive Description	Dive was aborted shortly after deployment at 86 m. The reason for aborting the dive was the same malfunctioning thruster issue from the previous dive.
Notable Observations	Shark in water column

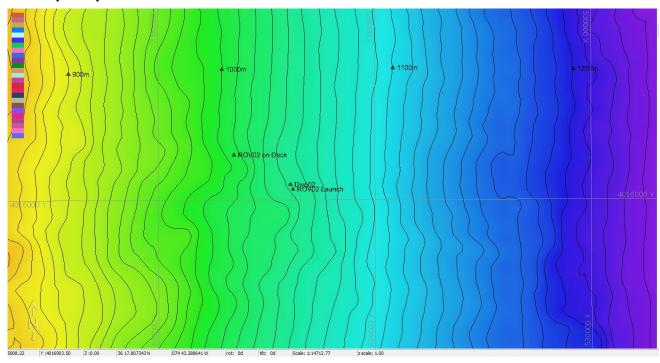


Community and	Corals and Sponges - Absent
habitat	Chemosynthetic Community - Absent
observations	High biodiversity Community - Absent
	Active Seep or Vent - Absent
	Extinct Seep or Vent - Absent
	Hydrates - Absent
CMECS Feature	Flat, Submarine Slide Deposit
Type(s)	
SeaTube Link	https://data.oceannetworks.ca/SeaTubeV3?resourceTypeId=600&resourceId=2153
(science	
annotation	
system)	

Equipment Deployed

ROV	Deep Discoverer
Camera Platform	Seirios
ROV Measurements	The following ROV measurements, data streams and equipment are used on each ROV deployment: CTD, depth, scanning sonar, USBL position, altitude, heading, attitude, high-resolution cameras, low resolution cameras, manipulator arms, suction sampler, sample drawers and thrusters. The section below notes if any of these sensors were malfunctioning or not operational
Equipment Malfunctions	Turbidity Sensor

Close-up Map of Main Dive Site



Hypack map of the Dive 02 waypoints. Depth is displayed by contour lines at 10 meter increments and by colors. Warm colors are shallower and cool colors are deeper.



Representative Photos of the Dive



A shark swimming in the water column during deployment.

Samples Collected -

No samples were collected

Niskin Sampling Summary

No Niskin bottles were used

Scientists Involved (provide name, email, affiliation)

Name	Email	Affiliation
Jason Chaytor	jchaytor@usgs.gov	USGS



Please direct inquiries to:

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