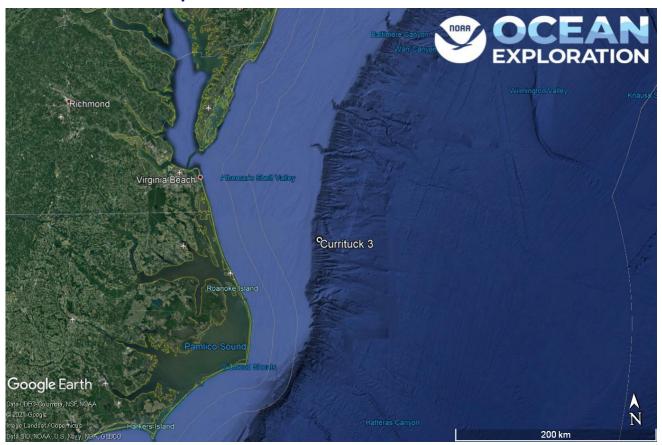


ROV Dive Summary, EX-21-03, Dive 03, June 16, 2021

General Location Map



Dive 03 named Currituck 3 on the shelf off of the North Carolina coast.

Dive Information

Site Name	Currituck 3
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 third 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	Dive Summary: EX2103_DIVE03		
Summary Data	_		
	Dive Type: Normal		
	Jr. Weber. 2024 0C 4CT40:20:23 507605		
	In Water: 2021-06-16T18:20:33.507695		
	nan ; -74.69886431096369		
	On Bottom: 2021-06-16T19:01:02.634597		
	36.28544455926249 ; -74.70050055926251		
	011 D. H. 2024 OS 45740 F4 42 705022		
	Off Bottom: 2021-06-16T19:54:43.795022 36.28477337392192 ; -74.70027568696095		
	30.2047/337392192 , -74.70027308090093		
	Out Water: 2021-06-16T20:36:31.633604		
	36.28808632383663 ; -74.70232456296286		
	Dive Duration: 2:15:58		
	Bottom Time: 0:53:41		
	Max Vehicle Depth: 1017.4 m		
	Min Seafloor Depth: 1014.5 m		
	Distance Travelled: 38.6 m		
Dive Description	A shortened second dive of the day after repairs to the ROV thruster. The ROVs made it to the full depth of 1017 m without issue confirming the repairs were successful. The bottom was a heavily sedimented flat area with some crabs and fish present.		



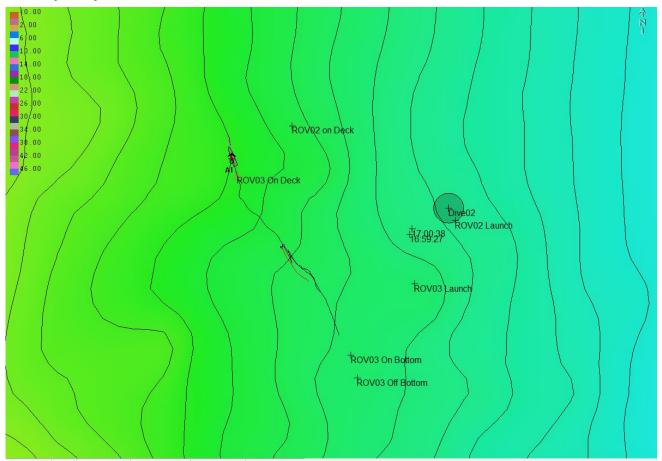
Notable Observations	None	
Community and Corals and Sponges - Absent		
habitat	Chemosynthetic Community - Absent	
observations	High biodiversity Community - Absent	
	Active Seep or Vent - Absent	
	Extinct Seep or Vent - Absent	
	Hydrates - Absent	
CMECS Feature	Flat, Submarine Slide Deposit	
Type(s)		
SeaTube Link	https://data.oceannetworks.ca/SeaTubeV3?resourceTypeId=600&resourceId=2163	
(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 and Dive 03 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

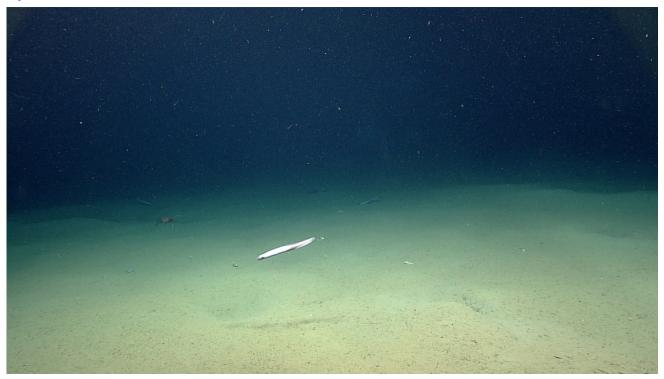


Image of the seafloor with fish swimming and a crab in the background.

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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