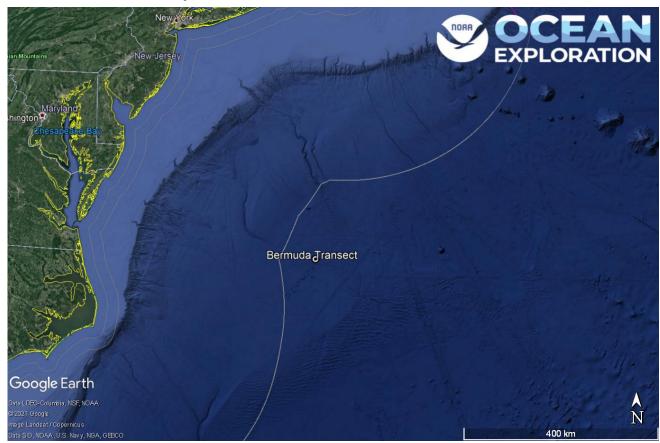


# ROV Dive Summary, EX-21-03, Dive 05, June 18, 2021

## **General Location Map**



Dive 05 named Bermuda Transect. This site is on the Sohm Abyssal Plain outside of the U.S. Exclusive Economic Zone.

#### **Dive Information**

Site Name	Bermuda Transect
General Area Descriptor	Abyssal Plain, On historic Bermuda/Gay Head seafloor and water column sampling transect.
Science Team Leads	Karl McLetchie
Expedition Coordinator	Kasey Cantwell/Matt Dornback
ROV Dive Supervisor	Karl McLetchie
Mapping Lead	Shannon Hoy

Dive Purpose	The fifth engineering dive of the ROV Shakedown. Primary objectives include pilot training,				
·	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_DIVE05				
Summary Data	^^^^^^				
	Dive Type: Normal				
	In Water: 2021-06-18T12:50:17 036000				
	In Water: 2021-06-18T12:59:17.036990 36.54376794359633 ; -70.69524991670299				
	00.54570754555055, 70.055245551070255				
	On Bottom: 2021-06-18T15:26:57.978349				
	36.54374977395716 ; -70.69629734460449				
	Off Bottom: 2021-06-18T17:59:02.781079				
	36.545082241831814 ; -70.69573165239578				
	Out Water: 2021-06-18T20:27:54.763666				
	36.5566780193537 ; -70.69367692495888				
	Dive Duration: 7:28:37				
	Bottom Time: 2:32:4				
	Max Vehicle Depth: 4370.9 m				
	Min Seafloor Depth: 4363.3 m				
	Distance Travelled: 280.1 m				
Dive Description	Dive 5 descended to a depth of 4370m for the deepest dive of this expedition. This achieved				
,	the engineering object of a pressure squeeze on D2 and Seirios. The bottom was composed of				
	sandy/silty soft sediment. Sea stars, brittle stars, holothurians, sponges, and fish were				
	observed during the dive.				
	The ME-20 low light camera was mounted on Seirios and tested in low light conditions looking				
	down at <i>D2</i> . The results for seeing into the distance in low light were mixed.				
NI - t - l- l -					
Notable Observations					
Objet varions					
Community and	Corals and Sponges - Present				
habitat	Chemosynthetic Community - Absent				
observations	High biodiversity Community - Absent				
	Active Seep or Vent - Absent				
	Extinct Seep or Vent - Absent				
	Hydrates - Absent				
CMECS Feature	Flat				
Type(s) SeaTube Link	https://data.ocoappotworks.ca/SoaTubo\/22rosoursoTupold=6008.rosoursoId=2192				
(science	https://data.oceannetworks.ca/SeaTubeV3?resourceTypeId=600&resourceId=2183				
(SCICILCE					

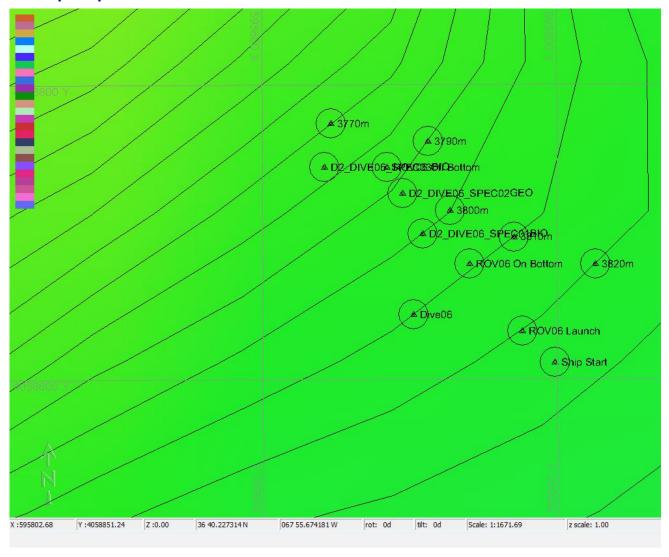


annotation	otation	ation		
system)	em)	1)		

## **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	Turbidity sensor
Malfunctions	

## **Close-up Map of Main Dive Site**



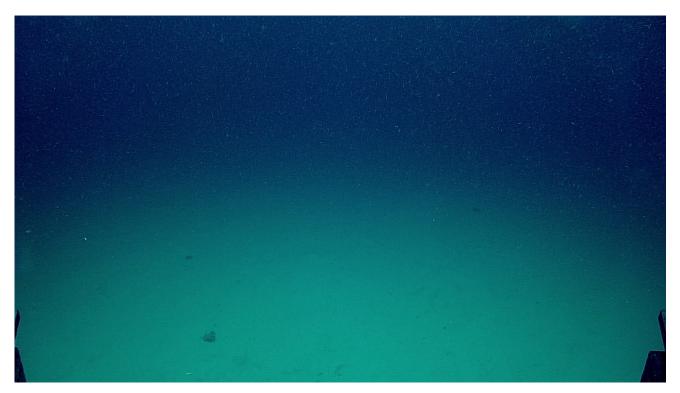
Hypack map of the Dive 05 waypoints. Depth is displayed by contour lines at 10 meter increments and by colors. Warm colors are shallower and cool colors are deeper.



## **Representative Photos of the Dive**



A holothurian extending it's feet and grabbing sediment to ingest.



Flat seafloor of the Sohm Abyssal Plain.

## **Samples Collected -**

No samples were collected



#### **Niskin Sampling Summary**

No Niskin bottles were used

## Scientists Involved (provide name, email, affiliation)

No scientists were involved in this dive

## Please direct inquiries to:

NOAA Office of Ocean Exploration & Research 1315 East-West Highway, SSMC3 RM 10210 Silver Spring, MD 20910 oceanexplorer@noaa.gov

