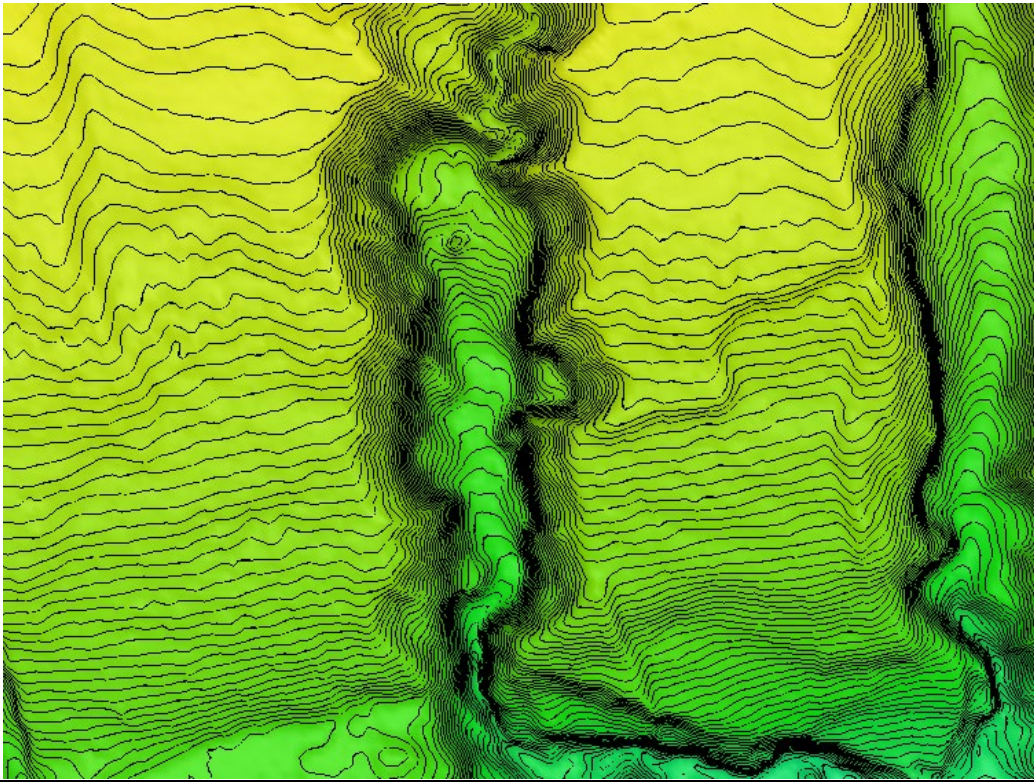




Okeanos Explorer ROV Dive Summary: EX-19-04, Dive 06, July 31, 2019

Dive Information

General Location Map	
General Area Descriptor	U.S. Northeast
Site Name	Block Canyon Deep
Science Team Leads	Michael Jakuba (WHOI), James Partan (WHOI), LCDR Chris Dolan (WHOI/USN)
Expedition Coordinator	Michael P. White (NOAA-OER)
ROV Dive Supervisor	Daniel Rogers (GFOE)
Mapping Lead	Michael P. White (NOAA-OER)

ROV Dive Name

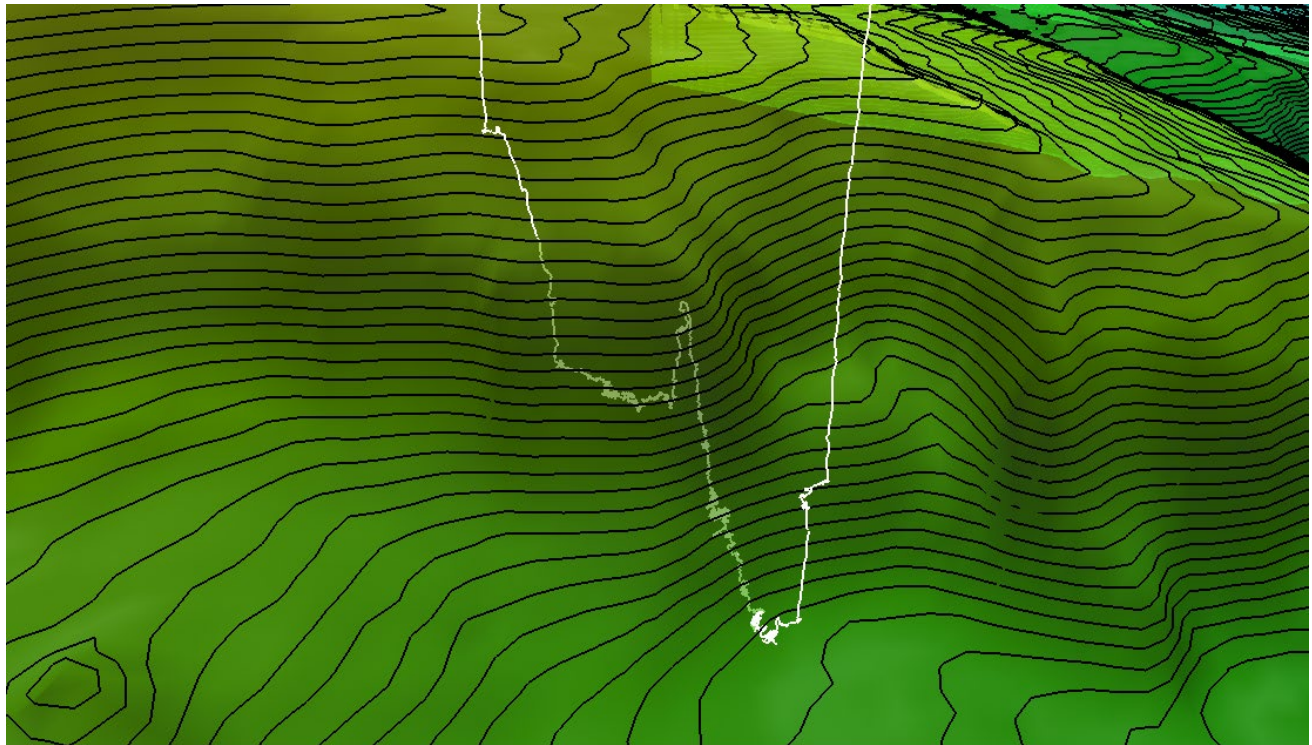
Cruise	EX1904
Dive Number	DIVE06

Dive Purpose	Testing of Woods Hole Oceanographic Institution One-Way-Travel-Time inverted ultra-short-baseline (OWTTIUSBL last accessed May 2020)
Dive Description	Testing of the OWTTIUSBL piggy-backed a 'normal' OER ROV dive. Vehicles arrived on bottom in the canyon and traversed up the eastern wall. The dive targeted steep slopes in the hopes of finding hard bottom where deep water communities may be present. Throughout the dive a number of species were observed, including deep water coral and sponges, bivalves (scallops), cephalopods, and skates. During the dive steep, sometimes nearing vertical, rock outcrops were observed. The geologic strata were layered, with some stratigraphy more resistant to erosion than others.
Notable Observations	



Community Presence/Absence (community is defined as more than two species)	Corals and Sponges - Yes Chemosynthetic Community - No High biodiversity Community - No Active Seep or Vent - No Extinct Seep or Vent - No Hydrates - No
Feature Type	Canyon Wall

Close-up Map of Main Dive Site



EM302 Bathymetry with 1 Hz ROV Dive track in red. Vertical exaggeration 3x, 10 meter depth contours in black, 50 meter cell size, bathymetry 40% transparent.



Representative Photos of the Dive

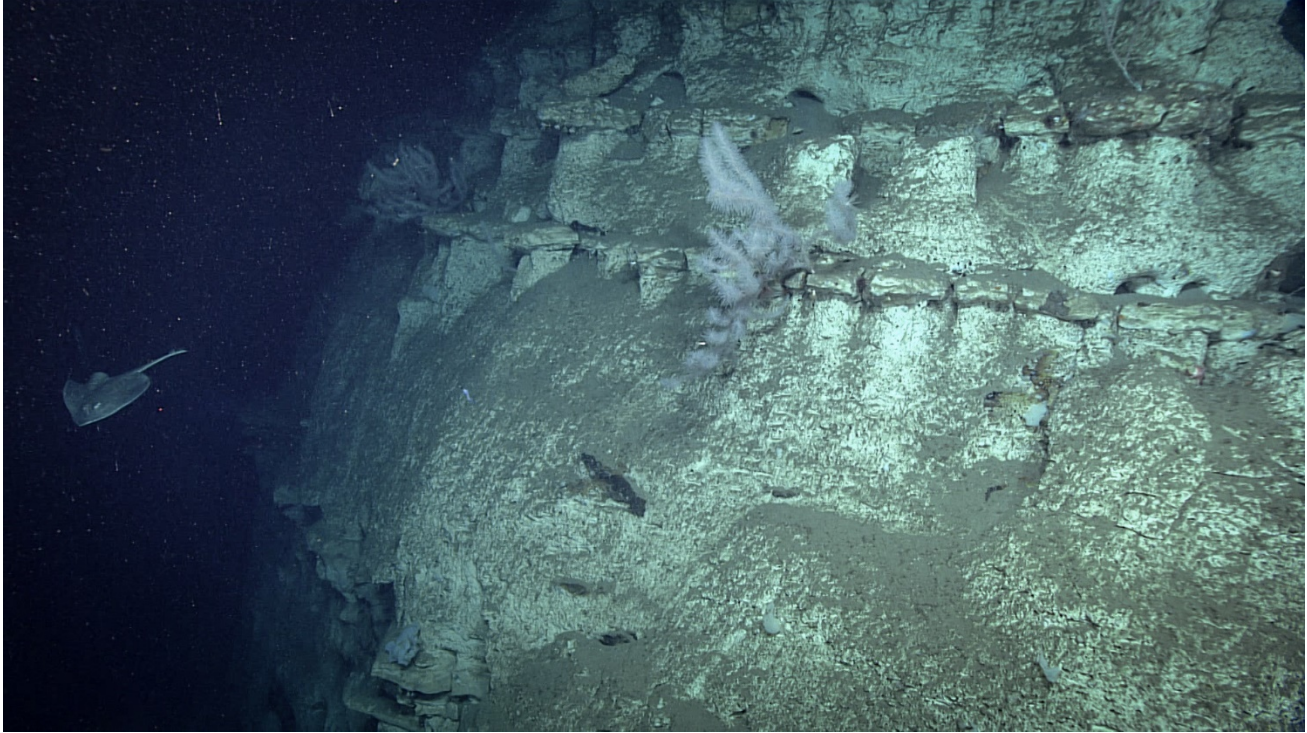


Skate observed during Dive 06.



Example of rock outcrops and pinnacle like features observed throughout the dive.

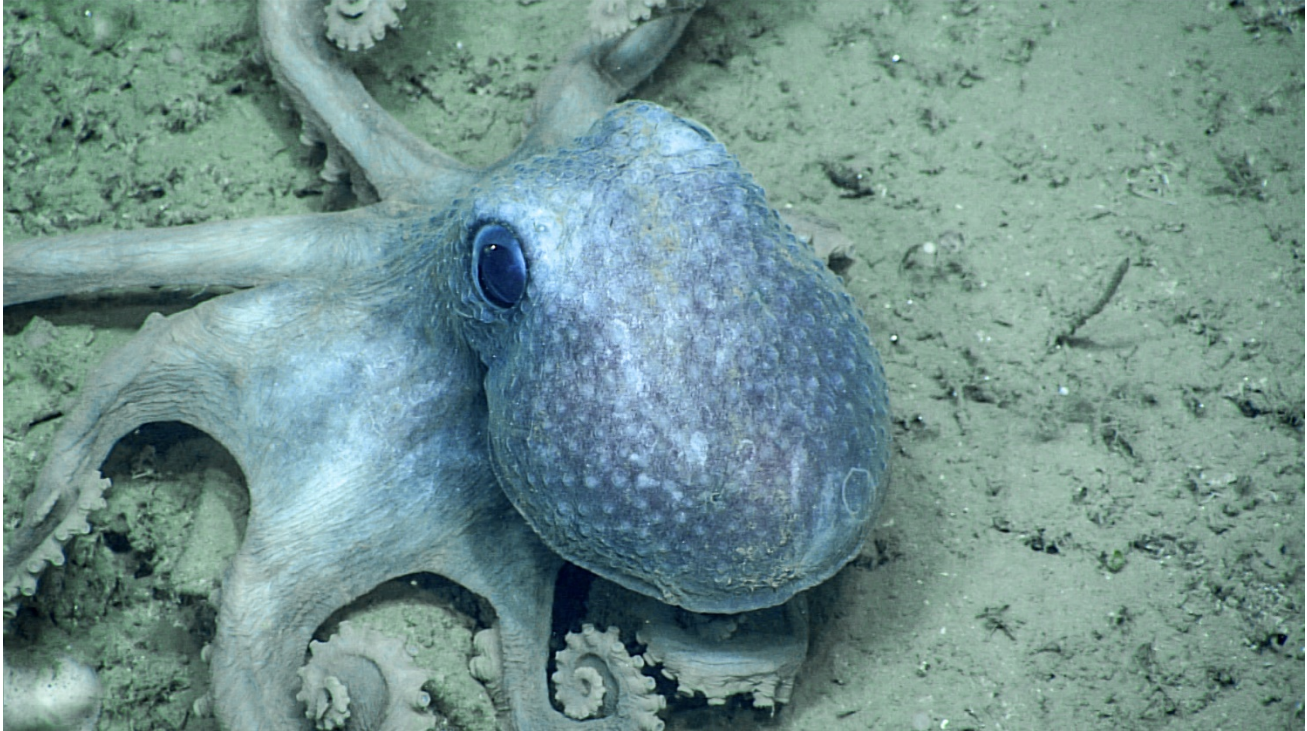




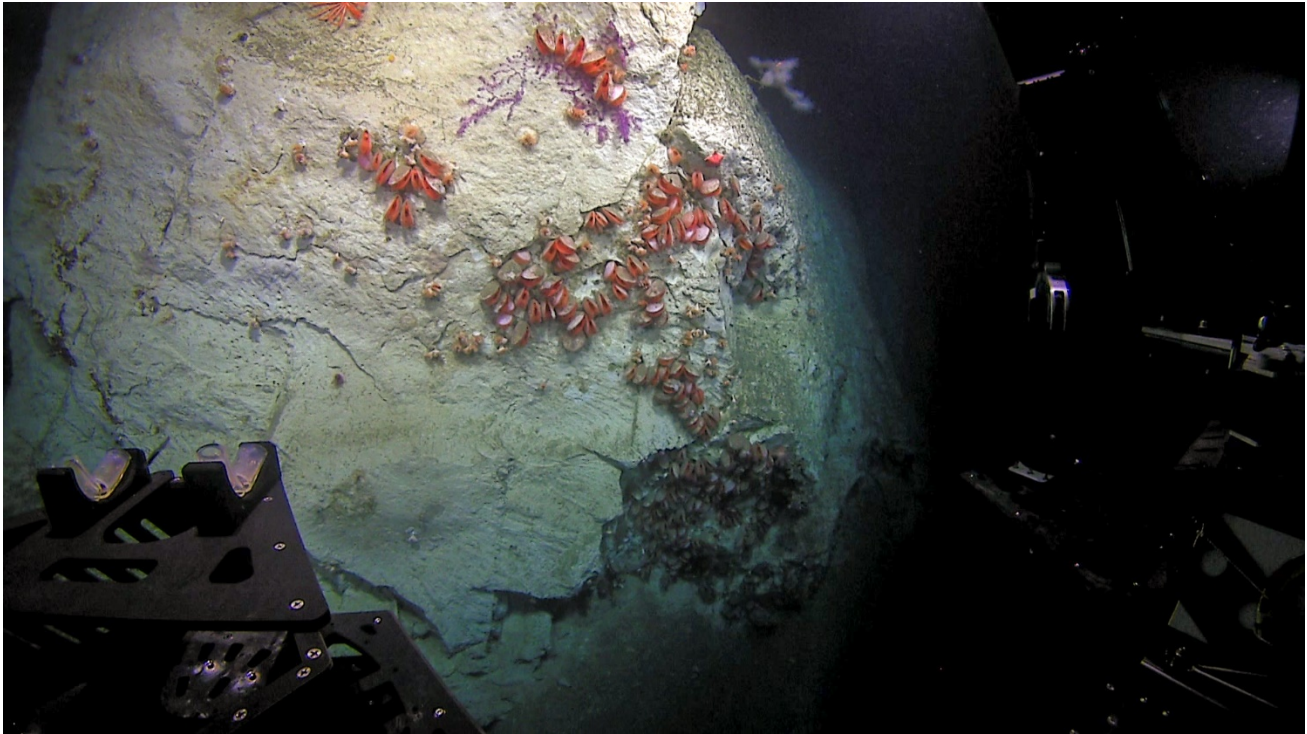
Example of layered strata with deep water coral communities.



Bivalves observed throughout the dive attached to the rocky outcrops.



Octopus observed throughout the dive.



Another example of bivalves attached to rock outcrops.

Samples Collected - No samples were collected on EX1904

Please direct inquiries to:

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**Ocean Exploration
and Research**