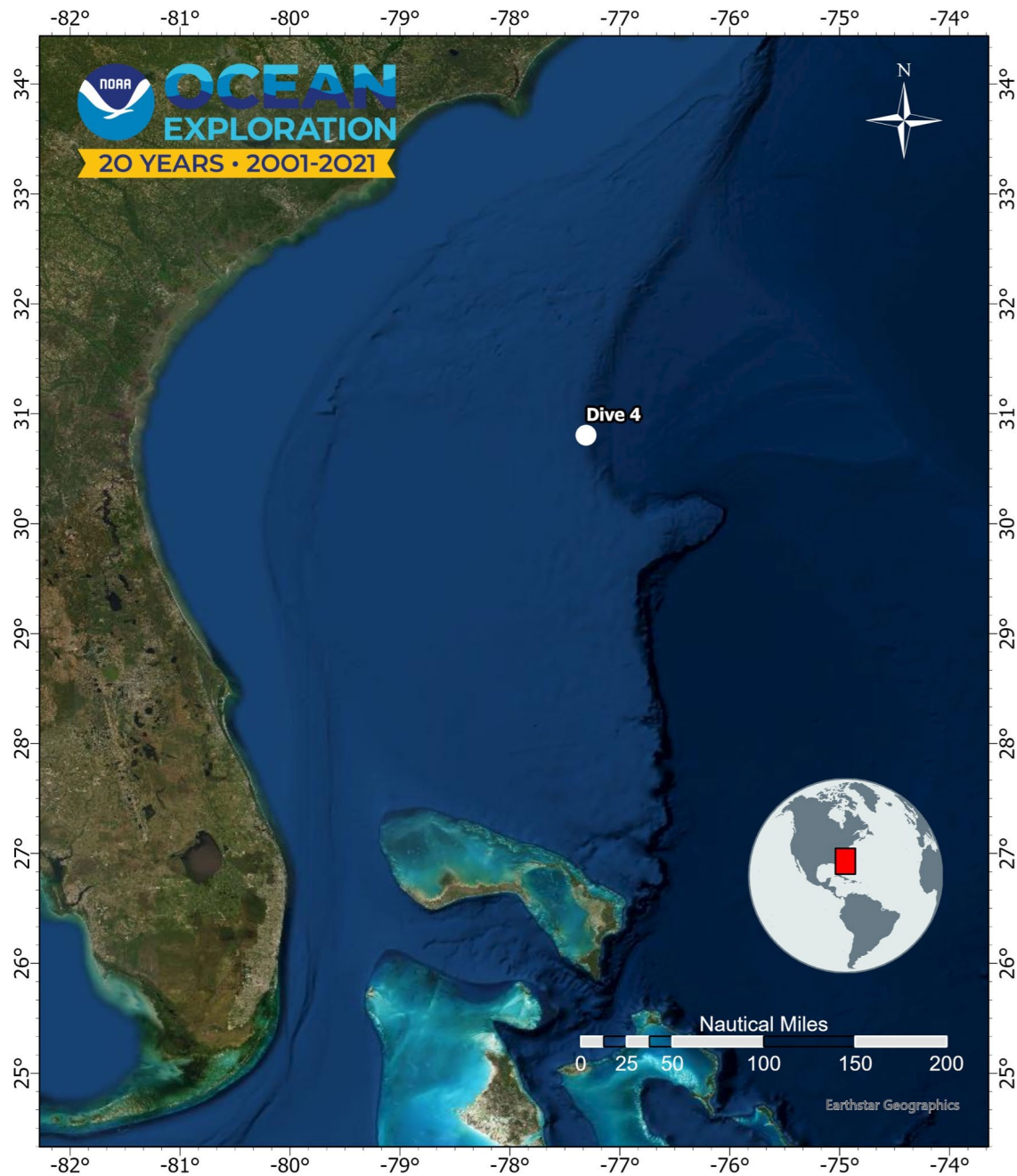


ROV Dive Summary, EX-21-07, Dive 04, November 02, 2021

General Location Map



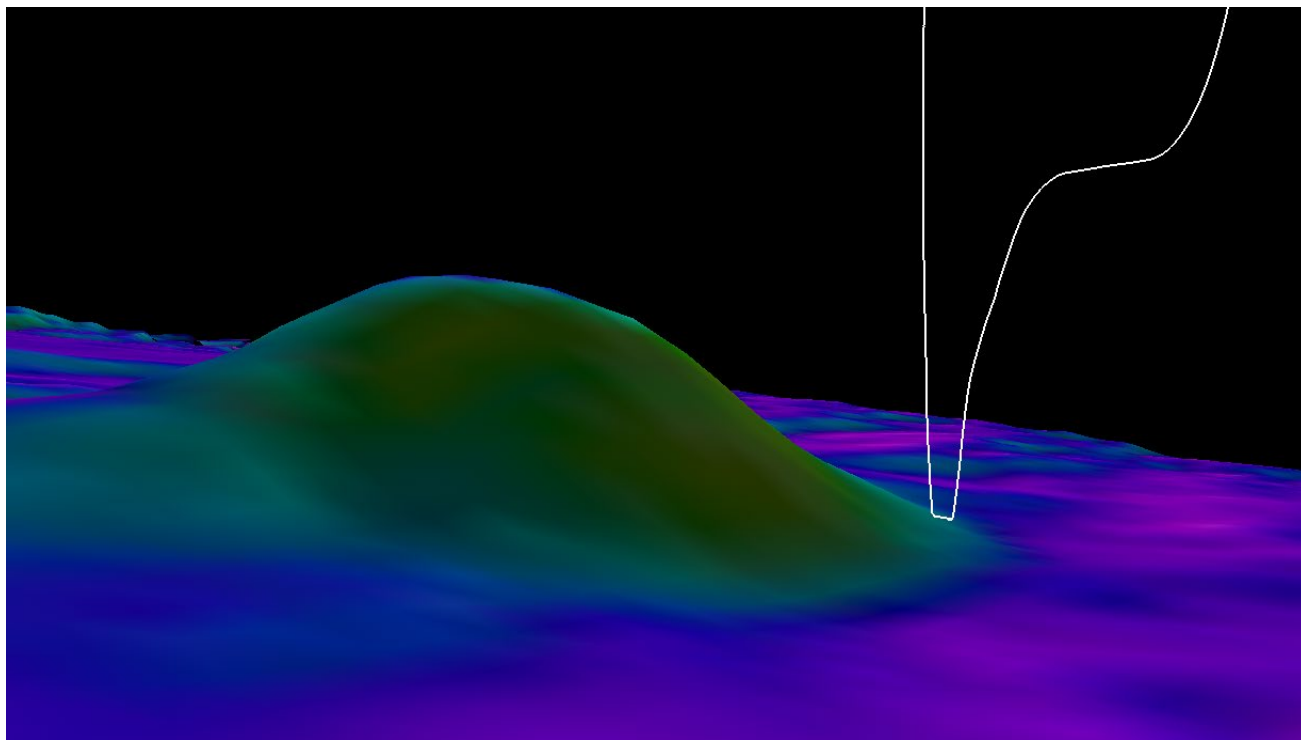
Dive Information

Site Name	Deep Mound - 1
General Area Descriptor	Along the eastern Slope of the shelf break of the Blake Plateau
Science Team Leads	Stephanie Farrington, Allen Collins
Expedition Coordinator	Matt Dornback
Sample Data Manager	Madalyn Newman
ROV Dive Supervisor	Chris Ritter
Mapping Lead	Derek Sowers
Dive Purpose	Exploration of a possible deep reef, collections
Was the dive restricted for Underwater Cultural Heritage?	No
ROV Dive Summary Data	Dive Summary: EX2107_DIVE04 ^^^ Dive Type: EARLY RECOVERY In Water: 2021-11-02T12:31:12.694793 30.80283548781844 ; -77.30079620162421 On Bottom: N/A N/A ; N/A Off Bottom: N/A N/A ; N/A Out Water: 2021-11-02T14:57:54.660795 30.806049200897967 ; -77.2977362312802 Dive Duration: 2:26:41 Bottom Time: N/A Max Vehicle Depth: 1400 m Min Seafloor Depth: N/A m Distance Travelled: N/A m

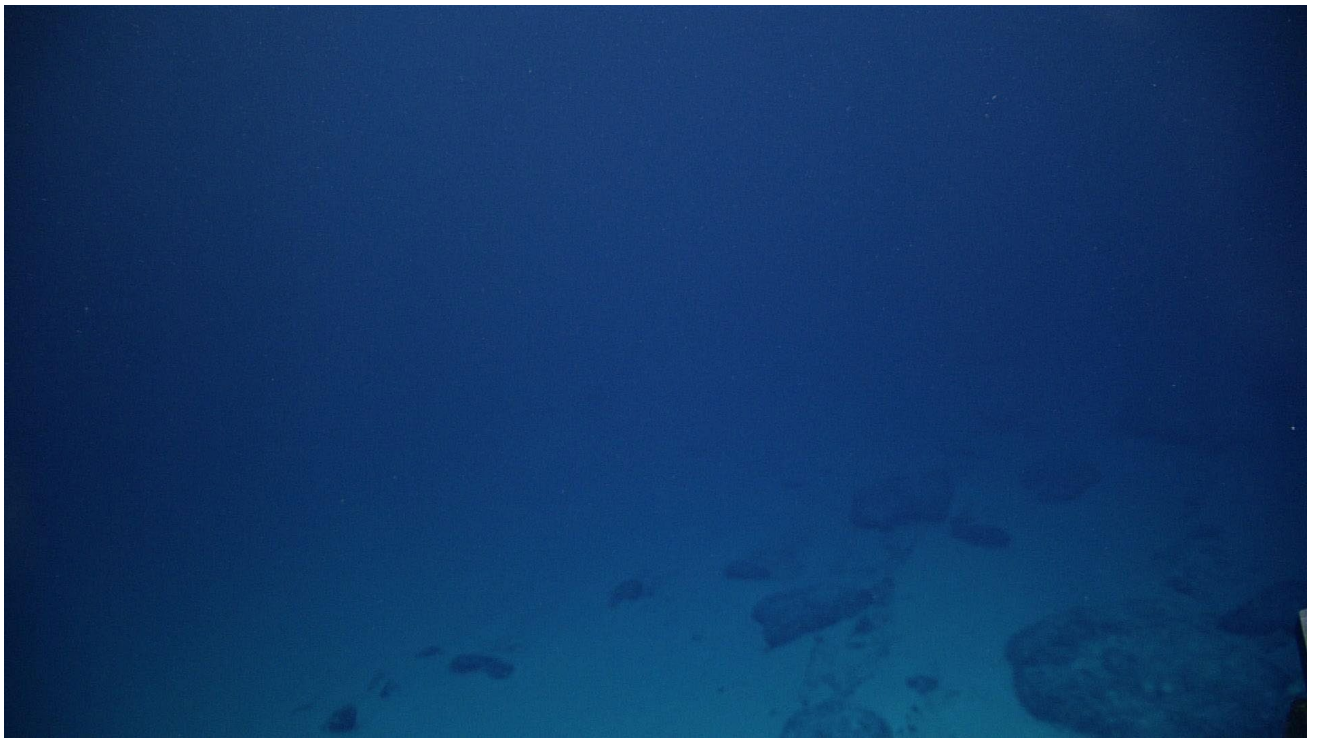
Dive Description	Dive was launched. At about 50 m off the bottom, the D2 ROV had a technical problem, necessitating the return of D2 and Seirios to the surface for D2 repair. Dive 4 ended early. Bottom was thick, sand with wave ripples and a few patches of large > 1 m slab-like boulders. Bottom was in sight but never reached. One water sample was collected at 1000 m on descent and was processed normally (DNA filtered from water and preserved for further processing) on ship. The plan called for collection of this water sample at 500 m (as for all other dives during EX2107), but target depth missed. EX2107_D04_01W
Notable Observations	
Community and habitat observations	Corals and Sponges - Absent Chemosynthetic Community - Absent High biodiversity Community - Absent Active Seep or Vent - Absent Extinct Seep or Vent - Absent Hydrates - Absent
CMECS Feature Type(s)	Flat, Plateau
SeaTube Link (science annotation system)	https://data.oceannetworks.ca/SeaTubeV3?resourceTypeId=600&resourceId=2453

Equipment Deployed

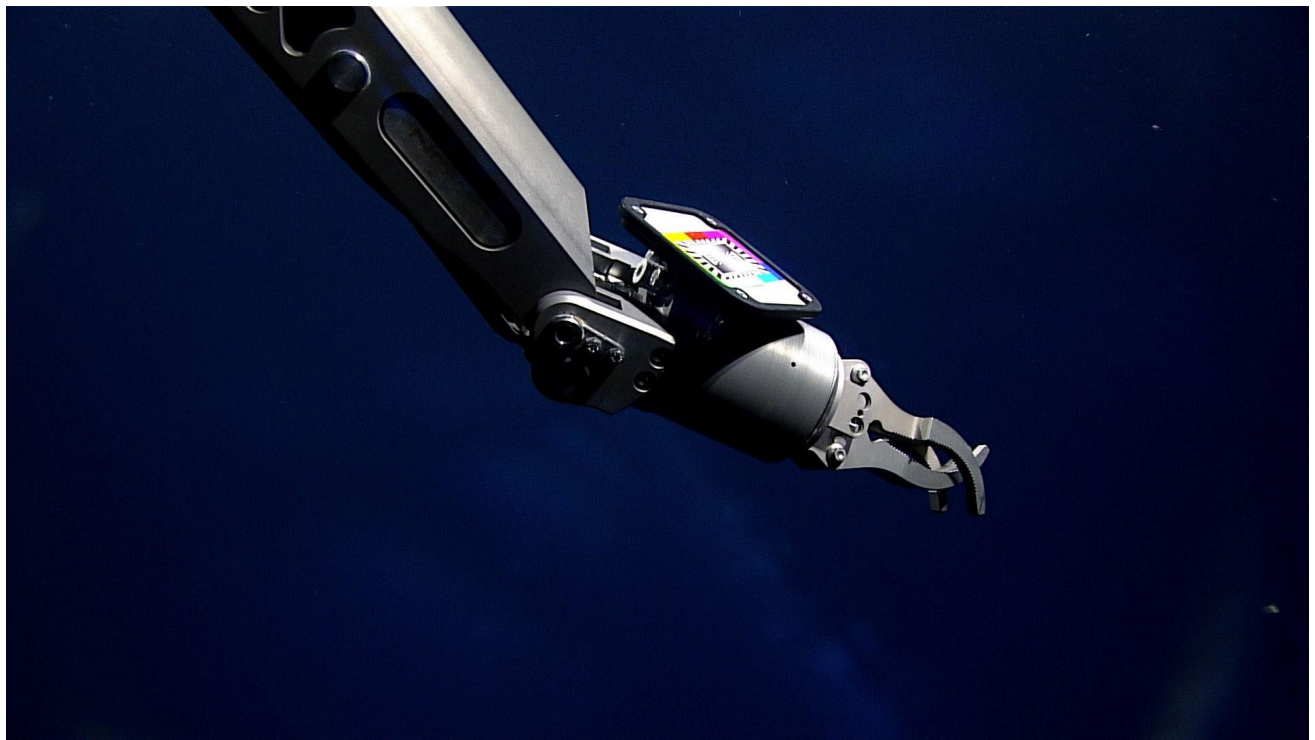
ROV	<i>Deep Discoverer</i>
Camera Platform	<i>Seirios</i>
ROV Measurements	The following ROV measurements, data streams and equipment are used on each ROV deployment: CTD, depth, scanning sonar, USBL position, altitude, heading, attitude, high-resolution cameras, low resolution cameras, manipulator arms,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



Smoothed ROV dive track in white on bathymetry, 3x vertical exaggeration.



Samples Collected -



Sample ID	EX2107_D04_01W
Date (UTC)	20211102
Time (UTC)	13:09
Depth (m)	1003.093
Latitude (decimal degrees)	30.805570
Longitude (decimal degrees)	-77.302900
Temp. (°C)	7.144
Field ID(s)	Water Sample
Comments	eDNA

Associates Sample ID	Field Identification	Count
N/A	N/A	N/A

Scientists Involved (provide name, email, affiliation)

First Name	Last Name	Email	Affiliation
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