

Okeanos Explorer ROV Dive Summary



ROV Measurements	🗸 CTD	✓ Depth	✓ Altitude			
	Scanning Son	ar 🗸 USBL Position	✓ Heading			
	✓ Pitch	✓ Roll	✓ HD Camera 1			
	✓ HD Camera 2	✓ Low Res Cam 1	✓ Low Res Cam 2			
	✓ The camera 2	3 Jow Res Cam 4	✓ Low Res Cam 5			
Equipment						
Malfunctions	None					
	In Water: 2018-11-05T12:22:15.323685					
	17°, 46.141' N ; 65°, 25.715' W					
	On Bottom:	2018-11-05T13:42:58.698827				
		17,40.374 N;05,25.072 W				
ROV Dive	Off Bottom:	2018-11-05T19:26:53.007420				
Summary Data		17°, 46.314' N ; 65°, 25.526' W				
(from	Out Wator:	2018 11 05720-54-47 106205				
processed ROV	Out water:	17°. 46.381' N : 65°. 24.859' W				
data)		, ,				
	Dive duration:	8:32:31				
	Bottom Time:	5-43-54				
	bottom mile.	5.45.54				
	Max. depth:	2153.0 m				
Special Notes	During ROV recovery a	a storm system passed, so the vehicles	s were held at 50 m until the storm			
Special Notes	passed, thus delaying	recovery by 20 minutes.				
	Name					
	Name	Affiliation	Email			
	Amanda Demopoulos	Affiliation US Geological Survey	Email ademopoulos@usgs.gov			
	Amanda Demopoulos Andrea Quattrini	Attiliation US Geological Survey Harvey Mudd College	Email ademopoulos@usgs.gov aquattrini@g.hmc.edu			
	Amanda Demopoulos Andrea Quattrini Asako Matsumoto	Attiliation US Geological Survey Harvey Mudd College Chiba Institute of Technology	Email ademopoulos@usgs.gov aquattrini@g.hmc.edu amatsu@gorgonian.jp			
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	Amanda Demopoulos Andrea Quattrini Asako Matsumoto Brian Kennedy Charles Messing Chris Taylor Christopher Mah	Affiliation US Geological Survey Harvey Mudd College Chiba Institute of Technology Boston University Nova Southeastern University NOAA National Museum of Natural History	Email ademopoulos@usgs.gov aquattrini@g.hmc.edu amatsu@gorgonian.jp brian@deepsubmergence.com messingc@nova.edu chris.taylor@noaa.gov brisinga@gmail.com			
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Dive Purpose	The purpose of the dive was to characterize the deep-sea coral and sponge communities in a relatively unexplored ridge feature west of St. Croix. The dive also sought to identify occurrences of deepwater demersal fish species, as well as their habitat preferences along the dive track. The dive track was designed to begin near the top of the south wall of the Virgin Islands Trough and then traversed southward up a steep nose feature in the wall from a depth of 1737 to 2138 m. Slopes expected along this dive track averaged between 30-40° incline. This depth range was selected to better understand deepwater community transitions between steep topography and ridge crests.
Dive Description	The dive started in a habitat dominated by soft sediment and scattered large boulders. Sediment and detritus was draped over the boulders. The current was mild throughout the dive and direction was west-northwest at the beginning of the dive. While the first half of the dive consisted of soft bottom habitats with scattered big boulders, the second part consisted of a steeper terrain with consolidated hardground.
	Sponges were the dominant organism at this site, across all depths and habitats. However, sponges were less common at the end of the dive, which traversed a narrower ridge feature with rocky ledges and overhangs that was heavily sedimented. Glass sponges contributed the most to the overall sponge composition. The diversity in morphology and species was high. The stalked glass sponges were possibly Hyalonematidae (<i>Heterorete</i> sp.) and encrusting glass sponges (<i>Sceptrulophora</i> sp.). We saw a lot of euplectillid sponges throughout the dive. The size of these euplectillids was smaller (diameter of osculum) than those that occurred in Dive 04. There was a stalked glass sponge (<i>Amphidiscella</i> sp.) and another type of glass sponge (<i>Tretopleura</i> sp.).
	There was a branching glass sponge (planular and bilateral branching) that was common but could not be identified. Demosponges were common, both big and small. There were large lobate, cream to white color demosponges (<i>Polymastia</i> sp.) and yellow fan-shaped demosponges, both were common. There were also small ball-like demosponges scattered along the rock faces, as well as an unidentified sponge that was fan-shaped and white. We collected a carnivorous sponge, <i>Chondrocladia</i> sp. at the end of the dive (19:16 UTC).
	Only two species of fish were identified on the dive, halosaurs (<i>Aldrovandia</i> sp.) and tripod fish (<i>Ipnops murrayi</i>). Halosaurs seemed to be more common than tripod fish. At the beginning of the dive we saw a small larval fish of unknown species. We saw even smaller larval fish later (15:09 UTC), bringing the total to 6 larval fishes.
	For other invertebrates, we observed a possible pancake sea urchin, dark red to black in color. Sea cucumbers were scattered at all depths. Two species of holothurians were observed. There were many small crinoids attached to hard substrate (<i>Democrinus</i> sp.). We collected one of these crinoids on a rock. There was a 10-arm crinoid (Septocrinoidae or Bathycrinoidae). This might be the deepest distribution for this species known to date (17:47 UTC). We saw a couple species of sea stars, and collected one unidentified sea star (Gonasteridae) predating on a bamboo coral. There was a slime star (Pterastridae), and another white sea star, <i>Pythanaster atlantitidus</i> . We also observed a brisingid star at 18:00 UTC.
	Deep-sea corals were well represented with representatives from the Chrysogorgiidae, Isididae, Paragorgiidae, Primnoidae, and Antipatharia. Two chrysogorgiid octocorals were observed, one early in the dive that displayed sparse branching and another at the end of the dive with a bottlebrush morphology. One branched (cf. <i>Cladarisis</i> sp.) and one unbranched species (<i>?Lepidisis</i> sp.) of bamboo coral were observed, both on steep hard bottom. One species of paragorgiid, <i>Sibogagorgia</i> cf. <i>cauliflora</i> , was repeatedly observed throughout the dive. One occurrence of primnoid whip was documented, likely <i>Candidella gigantea</i> , only recently reported from the Atlantic Ocean in the Bahamas. One occurence of <i>Heteropathes</i> sp.











Slope with numerous cobble-sized rocks and attached fauna included sponges and cnidarians.

A thin, knife-edge ridge connected the promontory near the second steep climb.

Samples Collected

Sample ID	EX1811_D05_01B	
Date (UTC)	20181105	A PART TO A
Time (UTC)	160231	and the second sec
Depth (m)	2070.708	Spec ID: EX1811_DO5_018 Field ID:, TrainCate
Temp. (°C)	3.836	Cruise(I)/DivelD: EX1811/DivE05 UTC Date/Time: 20181105/160231 Dive Ster Atlantic Ocean, Vsgini Manda Trough - South
Field ID(s)	Tunicate	Wall Lat/Lon/Deptine_17.7731/-65.4273/2070.71 Preservative: Formalin
Commensals	No commensals	
Comments		
Sample ID	EX1811_D05_02G	
Date (UTC)	20181105	Specific Poststill on UVP
Time (UTC)	164156	Vessel Devenue Springer Chetter Devenue Station Springer Dir Daver The Annual Station
Depth (m)	2043.424	La Construction 17771/26.1771/26.1771/20000000000000000000000000000000000
Temp. (°C)	3.832	
Field ID(s)	Rock with attached biology	



		Sample 2 Photo			
	Commensal Sample ID	Field Identification	Count		
	EX1811_D05_02G_A01	Crinoidea	1		
Commensals	EX1811_D05_02G_A02	Crypthelia	1		
	EX1811_D05_02G_A03	Unknown. Possibly bryozoan	1		
	EX1811_D05_02G_A04	Polychaeta	2		
Comments					
Sample ID	EX1811_D05_03B		6		
Date (UTC)	20181105				
Time (UTC)	171115	Spec ID: EX1311_005_0 Field ID: Asteroid with Vessel: Okeanos Explor Cruite/IP(Veic)E: X81311()	3B oral er IVE05		
Depth (m)	2037.533	UTC Date/Time: 20181105/ Dive Site: Atlantic Ocean, Virgin Islanc Wall	171115 Is Trough - South		
Temp. (°C)	3.826	Lat/Lon/Depth(m): 17/7/32/-05-4 Preservative: EtOH	269/2037.53		
Field ID(s)	Asteroida	the state of the s			
Commensals					
	Commensal Sample ID	Field Identification	Count		
	LX1811_D05_03B_A01	Bamboo Coral	1		
Comments					

Please direct inquiries to:

NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor) Silver Spring, MD 20910 (301) 734-1014

