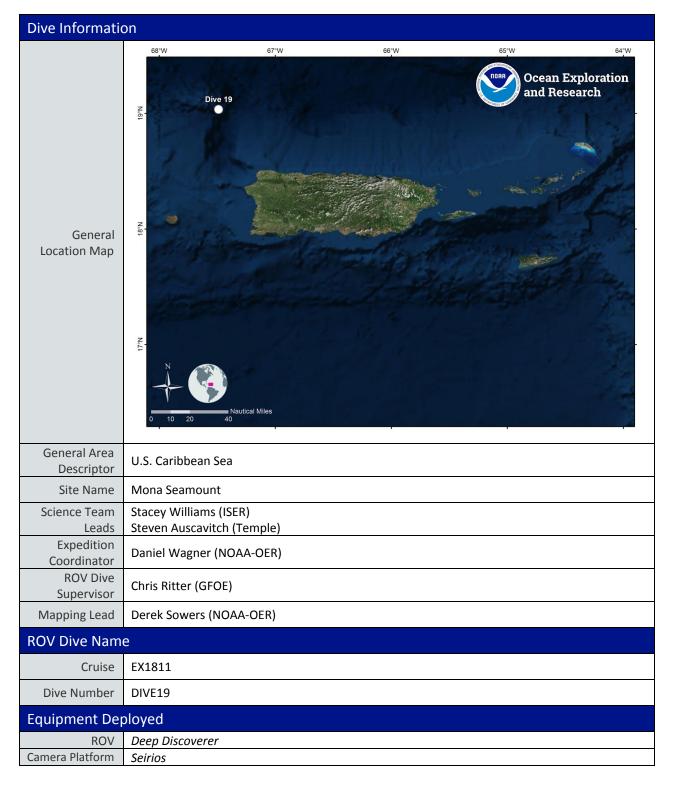


Okeanos Explorer ROV Dive Summary

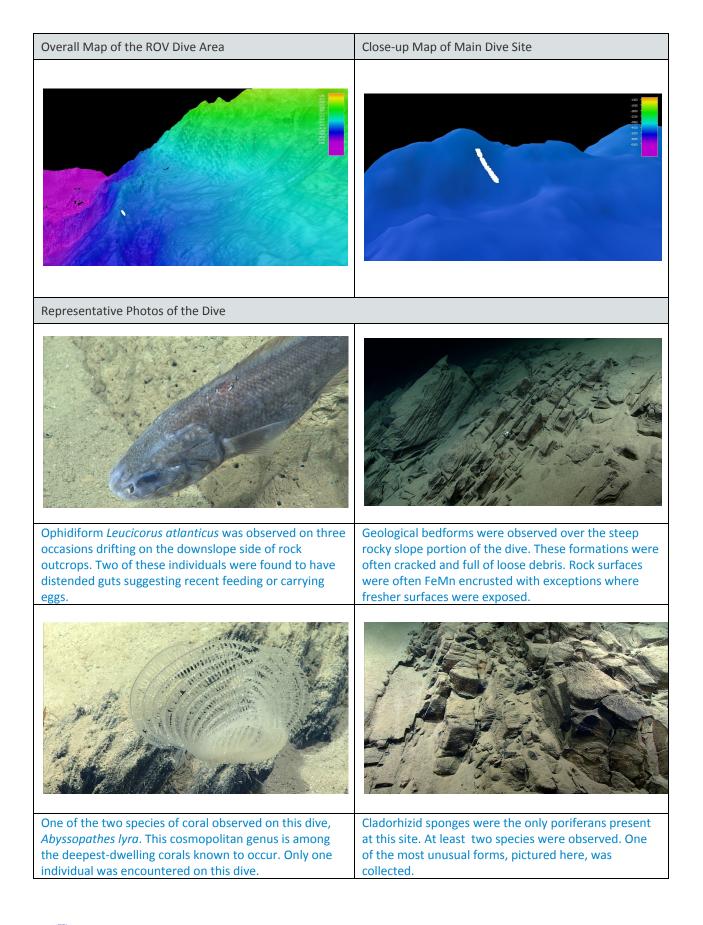


	✓ CTD	1	Depth	1	Altitude
	✓ Scanning Sona		USBL Position		Heading
ROV	✓ Pitch		Roll	• /	HD Camera 1
Measurements	✓ HD Camera 2	V	Low Res Cam 1	 	Low Res Cam 2
	✓ HD Camera 2		Low Res Cam 1		Low Res Cam 5
Fauipment	V LOW Res Call	5 1	LOW RES Call 4	v	
Equipment Malfunctions	None				
Waltunctions	In Water:	2018-11-191	12:23:42.510783		
	19°, 16.692' N ; 67°, 41.201' W				
	On Bottom:		15:20:26.233199 N ; 67°, 41.041' W		
ROV Dive Summary Data (from	Off Bottom:		17:52:48.952520 N ; 67°, 41.039' W		
(from) processed ROV data)	Out Water: 2018-11-19T20:45:51.230493 19°, 16.736' N ; 67°, 40.756' W				
	Dive duration:	8:22:8			
	Bottom Time: 2:32:22				
	Max. depth:	4998.0 m			
Special Notes	N/A				
opecial notes	,,,,				
opecial notes		Affiliation		Email	
	Name	Affiliation US Geological S	jurvev	Email ademo	poulos@usgs.gov
		US Geological S	urvey	ademo	poulos@usgs.gov v.shuler@noaa.gov
	Name Amanda Demopoulos	US Geological S NOAA/CSS		ademo andrew	v.shuler@noaa.gov
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Dive Purpose	The purpose of the dive was exploratory with objectives to characterize seafloor faunal communities, both on hard and soft bottom habitats. Hardbottom faunal communities, including deep-sea coral and sponges, were anticipated on steep sloped terrain. The dive also sought to to identify deep-sea fishes, as well as the geology of Mona Seamount.	
Dive Description	 We began the dive on a flat area of a ridge on the north slope of Mona Seamount. Thick soft sediment dominated the first half hour of the dive with occasional patches of cobble and boulder sized rock. There were also several tracks of irregular sea urchins and other <i>lebensspuren</i>. Currents throughout the dive were slight and ran downslope. Despite the depth, significant rafts of <i>Sargassum</i>, blades of <i>Thalassia</i> seagrass, and wood material were commonly observed throughout both rocky and soft bottom on this dive. Rocky outcrops displayed linear features initially thought to be bedding planes. These layers ran in and N-5 orientation upslope. Jason Chaytor (USGS) noted that these were very similar to rock formations (limestone) observed on the south side of Mona Seamount in previous expeditions. We followed these rocky outcrops to a minimum depth on bottom of 4,922 m. Some rocky outcrops, typically composed of cracked angular rock, were observed to be relatively fresh surfaces. Their white-tan coloration contrasted the dark colored surrounding material encrusted with FeMn. Two coral species were present on this dive, one sea pen and one black coral. Two colonies of the same species of <i>Umbellula</i> sp. (with 4-polyp colonies) were observed in soft sediments and one individual of the black coral <i>Abyssopathes cf. lyra</i> was seen on cobble-sized boulders well-set into the sedimented slope. The latter colony was sampled for confirmation of identification. Three individuals of the ophidiform, <i>Leucicous atlanticus</i> Nielsen, 1975, were observed, typically at the bottom of rocky terrain. We observed at least two species of sponges, both Cladorhizids. The first was tentatively identified as <i>Asbestopluma</i> sp., and the other, an unknown Cladorhizid, was sampled. Other invertebrates were surprisingly diverse at this site and included Munnopsid isopods (cf. <i>Storthyngula</i> sp., one possibly carrying an egg mass), tube-dwelling anemones, other anemones, polynoid worms, <i>Munidopsis</i> sp. squa	
Notable Observations	Unknown cladorhizid sponge; <i>Abyssopathes</i> sp. black coral, few ophidiform fishes, striking rock outcroppings	
Community Presence/ Absence (community is defined as more than two species)	 Corals and Sponges Chemosynthetic Community High biodiversity Community Active Seep or Vent Extinct Seep or Vent Hydrates 	







Samples Co	llected	
Sample ID	EX1811_D19_01G	
Date (UTC)	20181119	Spec (D: EX1811_D19_01G Field (D), rock with forais and waitin Vessel: Okanos Explorer Cruise(D)Dive(D: EX1811/DIVE19
Time (UTC)	154044	UTC Date() Jime: 20181119/154044 Dive Site: Atlantic Ocean, Mina Seamourt Lat/Lon/Depth(m): 19:2783/-67.6800(4972);59 Provember 2019
Depth (m)	4992.988	Provide a series of the series
Temp. (°C)	2.189	
Field ID(s)	Rock with forams and worm	
Commensals	Commensal Sample ID EX1811_D19_01G_A01	Field IdentificationCountSerpulidae1
Comments		
Sample ID	EX1811_D19_02B	· = ///
Sample ID Date (UTC)	EX1811_D19_02B 20181119	Caleboon and the second
Date (UTC)	20181119	
Date (UTC) Time (UTC)	20181119 164139	
Date (UTC) Time (UTC) Depth (m)	20181119 164139 4965.573	Image:
Date (UTC) Time (UTC) Depth (m) Temp. (°C)	20181119 164139 4965.573 2.232	Field ID: Cnidaria, Ab, sepathef Lyra Vessel: Okeanor Explore useID/DiveID: E 1811/ /164139 UTC ute/Time: 28 1811 / 164139 Ster. Al. onto Oceano Seamount Lat/Lon/D: pth. 5: 19.2 / 67.6839/4965.5.7



Sample ID	EX1811_D19_03G	20
Date (UTC)	20181119	Spec ID: EX1811_D13_036
Time (UTC)	165221	
Depth (m)	4959.725	Field ID;, rock Vesse: Okeanos Esplorer Crötegl(D)ver0: EX1811/D/VI:19 UTC Date/Time: 20181119/165221
Temp. (°C)	2.23	Dive Site: Atlantic Ocean, Mora Seamour LaVLon/Depth(m): 19.7283 (SeamOur) Preservative: None
Field ID(s)	Rock	
Commensals	No commensals	
Comments		
Sample ID	EX1811_D19_04B	A Company and a company an
Date (UTC)	20181119	Serve D (1911) 101 on
Time (UTC)	173949	Pied us - forder of the second
Depth (m)	4932.134	La us us per per a la constructiva de la constructi
Temp. (°C)	2.227	
Field ID(s)	Cladorhizidae	
Commensals	No commensals	
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

