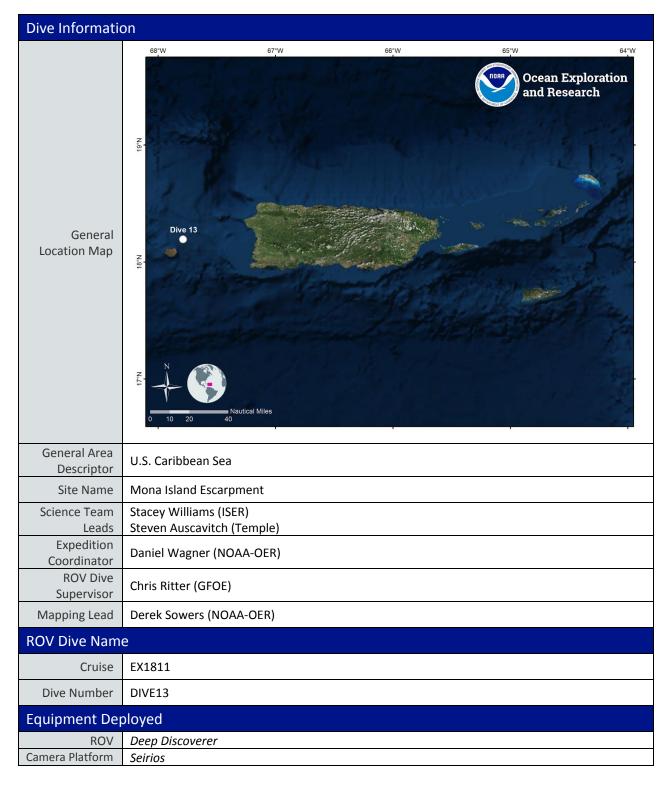


## **Okeanos Explorer ROV Dive Summary**

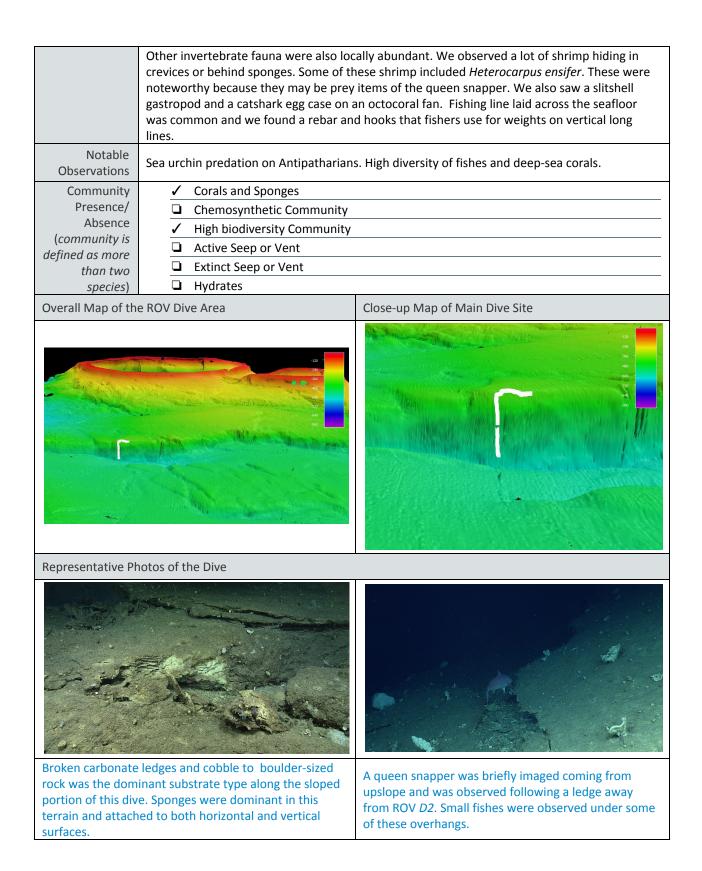


	✓ CTD	🗸 Depth	1	Altitude
DOV	✓ Scanning Son		-	Heading
ROV	✓ Pitch	✓ Roll		HD Camera 1
Measurements	✓ HD Camera 2		1	Low Res Cam 2
	✓ Low Res Cam			Low Res Cam 5
Equipment				
Malfunctions	None			
	In Water:	2018-11-13T12:30:00.602661 18°, 12.5' N ; 67°, 48.19' W		
	On Bottom:	2018-11-13T13:13:08.507289 18°, 12.531' N ; 67°, 48.096' W	,	
ROV Dive Summary Data	Off Bottom:	2018-11-13T20:08:17.027967 18°, 12.457' N ; 67°, 48.325' W	,	
(from) processed ROV data)	Out Water:	2018-11-13T20:32:09.392948 18°, 12.572' N ; 67°, 48.157' W	,	
	Dive duration:	8:2:8		
	Bottom Time:	6:55:8		
	Max. depth:	566.0 m		
		from D2, which showed erro	meous readings o	n the last two dives,
Special Notes	produced good data tl	nroughout the dive. As a prec nce chatroom from D2 to Seir		
Special Notes	produced good data tl CTD values in the scier	nroughout the dive. As a prec nce chatroom from D2 to <i>Seir</i>	<i>ios</i> prior to the di	ve.
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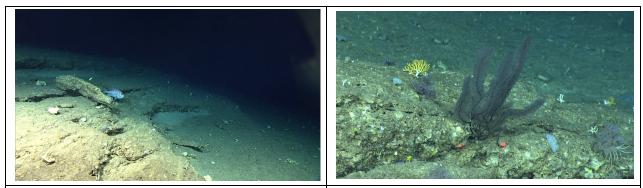


	This dive targeted potential habitats of commercially valuable deepwater fishes, including			
	snappers and groupers. The depth profile and topography both fell in the habitat preferences			
Dive Purpose	of the commercially important deepwater fishes as reported by the local fishing community in the region. The dive also sought to characterize the habitats of deep-sea corals, sponges and			
	other demersal fish communities.			
	This dive started at a depth of 550 m and reached as shallow as 399 m to explore deepwater fish and coral communities in the Mona Passage. The substrate consisted of broken off carbonate veneers on a rather steep slope. These veneers created relief and small crevices for many organisms to hide in. The substrate turned to a smoother carbonate pavement when we reached close to the plateau at the top of the escarpment.			
	Fish diversity was relatively low compared to that of the attached and encrusting benthic megafauna. In total, we observed seven species of fish. The most common fish was the orange roughy ( <i>Gephyroberyx</i> sp.). We saw three queen snapper ( <i>Etelis oculatus</i> ), at 454 m, 419 m and 409 m, respectively. They passed the camera and swam away quite fast. The other species noted were toadfish ( <i>Chaunax</i> sp.), snake eels ( <i>Aoterichtus distocopera</i> ), shortnose greeneye ( <i>Chlorophthalmus agassizi</i> ), <i>Polylepion</i> sp. and Scorpanids. Roughys utilized the seafloor relief and topography as habitat and rarely strayed off the bottom. Also, some of the <i>Polylepion</i> sp. had 8 white stripes down their body and no dark blotch on the caudal fin. These color markings are different from what has been reported for this species in this region.			
Dive Description	This site was among the most diverse for deep-sea corals throughout the entire expedition. Black corals were the most diverse group with six species represented ( <i>Leiopathes cf. glaberrima, Stylopathes</i> sp., <i>Stichopathes</i> sp. in both grey and orange morphotypes, <i>Antipathes atlantica</i> , and <i>Chrysopathes</i> sp.). This was followed by the Primnoidae with five species ( <i>Callogorgia</i> spp.; possibly 2 different species, <i>Plumarella</i> sp., <i>Acanthoprimnoa cf. goesi, Narella cf. bellissima</i> ) that were regularly observed throughout the dive. <i>Callogorgia</i> spp. were most common on the steeper, current swept slope than on top of the ridge crest. One <i>Chrysogorgia</i> sp. was observed. Toward the end of the dive we encountered thin Ellisellid whip corals with yellow polyps and white coenenchyma. Plexaurids and Acanthogorgids dominated the coral fauna at the top of the ridge crest with one recurring deep purple <i>Paramuricea</i> sp. that was more common on vertical surfaces (one was collected) and <i>Acanthogorgia aspera</i> (collected and identified at the surface), which was more common on flat or gentle sloping surfaces. We also observed one colony of the structure-forming <i>Solenosmilia variabilis</i> on a steep overhang early in the dive, but only small cup corals thereafter. Stylasterids were represented by the three most common genera observed on this expedition at this depth, <i>Crypthelia</i> sp., <i>Stylaster</i> sp., and <i>Distichopora</i> sp. in orange coloration.			
	Sponge diversity and abundance was impressive at this site, but sizes of individuals remained small. Demosponges contributed most to the overall sponge composition. There were a lot of unidentified blue, red and yellow encrusting sponges. The sponges increased in size toward shallower depths. The most common sponges were large lobate morphologies with white to cream coloration (possibly Pachastrellidae or Corallistidae). We also observed <i>Geodia</i> sp. and Haplosclerids (volcano-shaped sponges), and some suspected Euplectillids.			
	Among the echinodermata, sea urchins, especially cidarids, were the most abundant. There were two species of cidarids, <i>Histocidaris</i> sp. and <i>Cidaris mirandus</i> . We witnessed <i>Histocidaris nuttingi</i> grazing on a black coral colony ( <i>Chrysopathes</i> sp.). We also saw a couple of <i>Araeosoma</i> sp. urchins at shallower depths. Crinoids, both stalked and unstalked forms, were very abundant and at all depths on this dive. We also observed several <i>Holopus rangii</i> on vertical surfaces and overhangs. Most brittle stars were associated with octocorals and black corals. At least a couple of these brittle stars were euryalids, <i>Hemieuryale pustulata</i> . We did not observe any sea cucumbers at this site.			









Relief at this site was created by stepwise outcrops and rock falls. Fishes (primarily roughy) were the primary inhabitants of rocky ledges and outcrops.

On the crest above the drop off, unbranched and branched black corals (*Chrysopathes* sp.) and stylasterids (*Distichopora* sp.) pictured here were among the dominant attached megafauna observed throughout this site. Black corals were also subject to grazing by cidarid urchins. Octocoral fans were more sparsely observed in this habitat.

## Samples Collected

Sample ID	EX1811_D13_01B	Spec (D: FX1811_013_018 Field (D_, Fierancial
Date (UTC)	20181113	Vecal Okazao Episar Cnose0/Debus Okazio UC Obe/Time 20(311)/0113 Dus Sie Altentic Orani, Mai de Monis Latilize/Depisini 12.020/17.67.8000/
Time (UTC)	143236	Protectative FCM
Depth (m)	504.236	- HELENATSAL
Temp. (°C)	12.466	N N KAK
Field ID(s)	Plexaurid	
	Commensal Sample ID	Field Identification
Commensals	EX1811_D13_01B_A01	Brittle Star
	EX1811_D13_01B_A02	Squat Lobster



Count 1 1

Sample ID	EX1811_D13_S02B	
Date (UTC)	20181113	Spec ID: LX1811_D11_078 Field ID:, Razpallidar sponge Veset Oranna Explorer
Time (UTC)	160020	Cruse(D/Dwell): EXI811/DWE18 UTC Date/Time: 2018113/160020 Die Ster Atlantic Occasi, Na de Mana Escarpment
Depth (m)	427.2625	Lat/Lon/Depth(m): 18.2072/-67.8020/427.26 Preservative: EtOH
Temp. (°C)	14.495	
Field ID(s)	Raspailiidae sponge	
Commensals	No commensals	
Comments		
Sample ID	EX1811_D13_03B	Vessel: Okeanos Explorer CruiseID/DiveID: EX1811/DIVE13 UTC Date/Time: 20181113/170547
Sample ID Date (UTC)	EX1811_D13_03B 20181113	CruiseID/DiveID: EX1811/DIVE13 UTC Date/Time: 20181113/170547 Dive Site: Atlantic Ocean, Isla de Mona Escarpment Lat/Lon/Depth(m): 18.2070/-67.3028/411.55
		CruiseID/DiveID: EX1811/DIVE13 UTC Date/Time: 20181113/170547 Dive Site: Atlantic Ocean, Isla de Mona, Isla de Mon
Date (UTC)	20181113	CruiseID/DiveID: EX1811/DIVE13 UTC Date/Time: 2018111.3/170547 Dive Site: Atlantic Ocean, Isla de Mona Escarpment Lat/Lon/Depth(m): 18.2070/-67.8028/411.55 Preservative: EtOH
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Date (UTC) Time (UTC) Depth (m) Temp. (°C)	20181113 170547 411.554 14.064 Octocoral ( <i>Acanthogorgia aspera</i> )	Cruiseld/Divel: EX1811/DivE13 UTC Date/Time: 20181113/170547 Dive Site: Atlantic Ocean, Isla de Mona Escarpment Lat/Lon/Depth(m): 18.2070/-67.8028/411.55 Preservative: EtCH
Date (UTC) Time (UTC) Depth (m) Temp. (°C) Field ID(s)	20181113 170547 411.554 14.064 Octocoral ( <i>Acanthogorgia aspera</i> )	Cruisel/Divel3: EX131/DivE3: Dive Site: Atlantic Ocean, Isla de Mona Escarpment Lat/Lon/Depth(m): 18.2070/-67.8028/411.55 Preservative: EtOH
Date (UTC) Time (UTC) Depth (m) Temp. (°C)	20181113 170547 411.554 14.064 Octocoral ( <i>Acanthogorgia aspera</i> )	Cruiseld/Divel: EX1811/DivE13 UTC Date/Time: 20181113/170547 Dive Site: Atlantic Ocean, Isla de Mona Escarpment Lat/Lon/Depth(m): 18.2070/-67.8028/411.55 Preservative: EtCH
Date (UTC) Time (UTC) Depth (m) Temp. (°C) Field ID(s)	20181113 170547 411.554 14.064 Octocoral ( <i>Acanthogorgia aspera</i> ) Commensal Sample ID EX1811_D13_03B_A01	Cruisel/Divel3: EX131/DivE13 Dive Site: Atlantic Ocean, Isla de Mona Escarpment Lat/Lon/Depth(m): 18.2070/-67.8028/411.55 Preservative: EtOH



## Please direct inquiries to:

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

