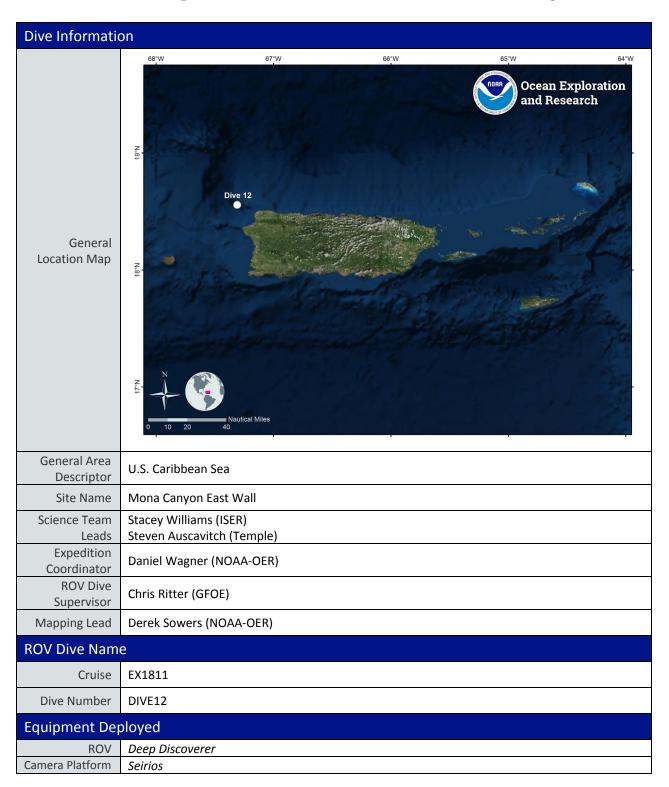


Okeanos Explorer ROV Dive Summary



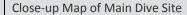
	✓ CTD	✓ Depth	✓ Altitude		
-					
ROV Measurements					
	✓ Pitch	✓ Roll	✓ HD Camera 1		
-	✓ HD Camera	1	✓ Low Res Cam 2		
	✓ Low Res Ca		✓ Low Res Cam 5		
Equipment Malfunctions	The salinity measurements by the CTD sensors on <i>D2</i> showed erroneous values throughout the dive. After the dive, the faulty salinity measurements from the <i>D2</i> sensors were replaced with correct values from the <i>Seirios</i> sensors in SeaTubeV2. In Water: 2018-11-12T13:56:05.729674				
2012	On Rottom.	18°, 32.442' N ; 67°, 17.683' W 2018-11-12T15:19:44.891228			
	On Bottom:	18°, 32.611' N ; 67°, 17.706' W			
ROV Dive Summary Data	Off Bottom:	2018-11-12T21:22:35.165507 18°, 32.672' N; 67°, 17.424' W			
(from processed ROV data)	Out Water:	2018-11-12T22:35:55.208154 18°, 32.864' N ; 67°, 16.993' W			
	Dive duration:	8:39:49			
	Bottom Time: 6:2:50 Max. depth: 2415.0 m				
	•		o a winch issue. However, the		
Special Notes	The deployment of the ROV was delayed by ~1.5 hours due to a winch issue. However, the ROV recovery time was extended to recover dive time that would have otherwise been lost.				
	NOV recovery time v	was extended to recover dive time that w	data nave other wise seem lost.		
	News				
	Name	Affiliation	Fmail		
	Name Asako Matsumoto	Affiliation Chiba Institute of Technology	Email amatsu@gorgonian.ip		
	Asako Matsumoto	Chiba Institute of Technology	amatsu@gorgonian.jp		
	Asako Matsumoto Ashley Perez	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team	amatsu@gorgonian.jp ashley.perez@bahiapr.com		
	Asako Matsumoto Ashley Perez Christopher Mah	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com		
	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov		
	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner Debi Blaney	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER NOAA/OER	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov		
	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner Debi Blaney Frank Tamara	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER NOAA/OER Nova Southeastern University	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov tfrank1@nova.edu		
	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner Debi Blaney Frank Tamara Graciela Garcia-Moliner	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER NOAA/OER Nova Southeastern University Caribbean Fishery Management Council	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov tfrank1@nova.edu graciela_cfmc@yahoo.com		
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Scientists	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner Debi Blaney Frank Tamara Graciela Garcia-Moliner Íris Costa Kenneth Sulak	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER NOAA/OER Nova Southeastern University Caribbean Fishery Management Council Senckenberg am Meer, Germany US Geological Survey	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov tfrank1@nova.edu graciela_cfmc@yahoo.com irisfs@gmail.com jumpingsturgeon@yahoo.com		
Scientists Involved	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner Debi Blaney Frank Tamara Graciela Garcia-Moliner Íris Costa Kenneth Sulak Lauren Walling	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER NOAA/OER Nova Southeastern University Caribbean Fishery Management Council Senckenberg am Meer, Germany US Geological Survey University of Louisiana at Lafayette	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov tfrank1@nova.edu graciela_cfmc@yahoo.com irisfs@gmail.com jumpingsturgeon@yahoo.com lauren.walling1@louisiana.edu		
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Involved (provide name,	Asako Matsumoto Ashley Perez Christopher Mah Daniel Wagner Debi Blaney Frank Tamara Graciela Garcia-Moliner Íris Costa Kenneth Sulak Lauren Walling Marcela Cañon Mashkoor Malik Megan Cromwell	Chiba Institute of Technology Tenenbaum Puerto Rico Trench Expedition Team National Museum of Natural History NOAA/OER NOAA/OER Nova Southeastern University Caribbean Fishery Management Council Senckenberg am Meer, Germany US Geological Survey University of Louisiana at Lafayette Interamerican University NOAA/OER NOAA/NCEI	amatsu@gorgonian.jp ashley.perez@bahiapr.com brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov tfrank1@nova.edu graciela_cfmc@yahoo.com irisfs@gmail.com jumpingsturgeon@yahoo.com lauren.walling1@louisiana.edu marcela.canon@bahiapr.com mashkoor.malik@noaa.gov		
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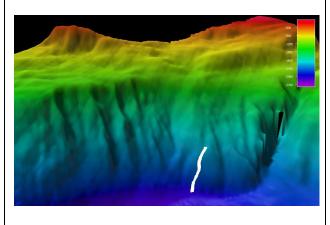


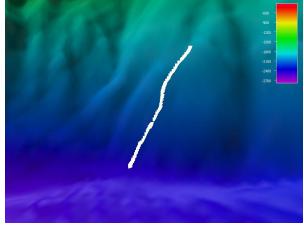
The purpose of the dive was to characterize deep-sea coral and sponge communities in an unexplored steep ridge feature located on the eastern side of the Mona Canyon, off the Dive Purpose northwestern shore of Puerto Rico. The dive also sought to identify the occurrences of deepwater demersal fish species, as well as their habitat preferences along the dive track. The dive started in a soft sediment habitat. The current at this site was strong and heading from south to north. There were even ripples in the sand. The substrate changed to more jagged rocky outcrops, which were not coated with iron manganese. The most common and abundant fish at this site was the cusk eel Barathrodenus manatinus. Two other of fish species were halosaurs and *Ipnops murrayi*, however, fish were very sparse throughout the dive. Halosaurs and *Ipnops murrayi* were located in the shallower parts of the dive. Rock that was sampled at the end of the dive appeared to be more of a conglomeration of soft carbonate sediments and sand, rather than hard consolidated carbonates down below. Sponge diversity was low and glass sponges contributed the most to the overall sponge composition. At the beginning of the dive we observed *Poliopogon* sp., which was also sighted on a previous dive. Also observed were a Euplectella sp., Farrea sp., and stalked glass sponge. There were some small encrusting demosponges on the manganese-covered rock faces. Carnivorous sponges were also observed at this site, but they were not as common. Dive Description Deep-sea corals were not well represented at this site with only two species present, one Isidid and one primnoid. The deepest coral was the Isidid (possibly J-clade, internodal-branching) species reminiscent of one collected previously at Jaguey Spur. The other coral, the primnoid Candidella imbricata, was found throughout the dive, but much larger colonies (>20 cm) were found deeper along the dive track. All deep-sea corals were exclusively found with bases attached to rock encrusted with FeMn coating. Echinoderms again were the most abundant and common organism at this site, with sea cucumbers and brittle stars being the most abundant taxa. The majority of the time the brittle stars were out in the open and not hiding under rocks. We saw about five species of sea cucumbers across all explored depths. Three species of sea stars were noted, a slime star, Zoraster fulgens, and brisingid stars, the latter of which were very common throughout the dive. We saw two species of sea urchins, a small *Phormosoma* sp. and possibly a Diadematid urchin. There were small five-arm crinoids and we also saw a couple of 10-arm unstalked crinoids. We observed peculiar molluscs that looked like a snail at the beginning of the dive in the soft sediment. The foot was extended and had a small white shell. We observed numerous Notable different shrimp throughout the dive, the most common of which were the swimming shrimps Observations in the family Aristeidae. Some trash was also observed on the seafloor near the ROV landing site. Trash consisted of plastic and a glass bottle. **Corals and Sponges** Community Presence/ ☐ Chemosynthetic Community Absence ☐ High biodiversity Community (community is ☐ Active Seep or Vent defined as more **Extinct Seep or Vent** than two □ Hydrates species)



Overall Map of the ROV Dive Area







Representative Photos of the Dive





Upon reaching the seafloor rocks were observed to be highly fractured forming extensive talus fields. Rocks were often friable and the first few sampling attempts resulted in consolidated mud "rocks" that fell apart. Holothurians and other soft-sediment echinoderms dominated the benthic communities in these environments.

Bright white colored carbonate faces stood in contrast to FeMn-coated rock faces which may indicate recent rock failures. Biology was only found on FeMn crusts.





Larger attached megafauna, like this bamboo coral were only observed on FeMn coated rock surfaces and never on white to tan colored carbonate surfaces.

Small pinnacle features dominated the last few meters of bottom distance with occasional attached fauna consisting of *Crypthelia* sp. hydrocorals and sea stars in the family Brisingidae.



Samples Co	llected		
Sample ID	EX1811_D12_01G		
Date (UTC)	20181112		
Time (UTC)	163945		
Depth (m)	2348.072		
Temp. (°C)	3.046	A TOP A SECURITY OF THE SECURI	
Field ID(s)	Rock	THE STATE OF THE S	
Commensals	No commensals		
Comments			
Sample ID	EX1811_D12_02B		
Date (UTC)	20181112	Spec ID: EX1811_D12_07B	
Time (UTC)	173430	Field ID:, Primnoid-Candidella Vessel: Okeanos Explorer Cuisiel/D/Div/D: EX1811/DIVE12	
Depth (m)	2264.843	UTC Date/Time: 20181112/173430 Dive Site: Atlantic Ocean, Lat/Lon/Depth(m): 18.5442/-67.2938/2264.84	
Temp. (°C)	3.204	Preservative: EtOH	
Field ID(s)	Candidella sp.	րողուդուդուդուդուդուդուդուդուդուդուդուդուդո	
Commensals	No commensals		
Comments			
Sample ID	EX1811_D12_03B	Spec ID: EX1811_D12_038 Field ID: , branching bryozoan Vessel: Okeanos Explorer CruiseID/DiveID: EX1811,DVIE12 UTC Date/Time: 20181112/174708 Dive Site: Atlantic Ocean, Lat/Lon/Depth(mi: 18.5441/-67.2937/2262-61 Preservative: ELOH	
Date (UTC)	20181112		
Time (UTC)	174708		
Depth (m)	2262.614		
Temp. (°C)	3.258		
Field ID(s)	Branching Bryozoan	Viterratin' J rrantaeastran's amb en amb engal aman'n amb en l'amb engal amb en	
Commensals	No commensals		
Comments			



Sample ID	EX1811_D12_04G	A CONTRACTOR OF THE PARTY OF TH			
Date (UTC)	20181112				
Time (UTC)	204040				
Depth (m)	1989.822				
Temp. (°C)	3.621				
Field ID(s)	Rock	The OF LATES DIE DIE THE OF T			
Commensals					
	Commensal Sample ID	Field Identification Count			
	EX1811_D12_04G_A01	Polychaeta 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

