

## **Okeanos Explorer ROV Dive Summary**



ROV Measurements	🖌 CTD	🗸 Depth	✓ Altitude	
	<ul> <li>Scanning Sor</li> </ul>	nar 🖌 USBL Position	✓ Heading	
	🗸 Pitch	✓ Roll	✓ HD Camera 1	
	✓ HD Camera 2	2 ✓ Low Res Cam 1	✓ Low Res Cam 2	
	Low Res Can	n 3 🖌 Low Res Cam 4	✓ Low Res Cam 5	
Equipment Malfunctions	None			
Walturictions	In Water:	2018-11-04T14:50:25.060877		
ROV Dive Summary Data (from processed ROV data)		17°, 35.479' N ; 64°, 53.156' W		
	On Bottom:	2018-11-04T15:17:51.323678 17°, 35.35' N ; 64°, 53.348' W		
	Off Bottom:	2018-11-04T20:09:45.374939 17°, 35.355' N ; 64°, 53.241' W		
	Out Water:	2018-11-04T20:33:44.653192 17°, 35.394' N ; 64°, 53.14' W		
	Dive duration:	5:43:19		
	Bottom Time:	4:51:54		
	Max. depth:	564.0 m		
Special Notes	N/A			
	Name	Affiliation	Email	
	Andrew Shuler	NOAA/CSS	andrew.shuler@noaa.gov	
	Asako Matsumoto	Chiba Institute of Technology	amatsu@gorgonian.jp	
	Christopher Mah	National Museum of Natural History	brisinga@gmail.com	
	Christopher Mah Debi Blaney	National Museum of Natural History NOAA/OER	brisinga@gmail.com debi.blaney@noaa.gov	
	Christopher Mah Debi Blaney Iris Costa	National Museum of Natural History NOAA/OER Senckenberg am Meer, Germany	brisinga@gmail.com debi.blaney@noaa.gov irisfs@gmail.com	
	Christopher Mah Debi Blaney Iris Costa Graciela Garcia-Moliner	National Museum of Natural History         NOAA/OER         Senckenberg am Meer, Germany         Caribbean Fishery Management Council	brisinga@gmail.com debi.blaney@noaa.gov irisfs@gmail.com graciela_cfmc@yahoo.com	
Scientists	Christopher Mah Debi Blaney Iris Costa Graciela Garcia-Moliner Jason Chaytor	National Museum of Natural History         NOAA/OER         Senckenberg am Meer, Germany         Caribbean Fishery Management Council         US Geological Survey	brisinga@gmail.com debi.blaney@noaa.gov irisfs@gmail.com graciela_cfmc@yahoo.com jchaytor@usgs.gov	
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ROV. Upon reaching what appeared to be the top of this feature, we traversed along the drop-off along a semi-continuous ledge, where we saw many attached organisms and fishes.

There were at least 10 species of fish during this dive. The start of the dive began on a gentle slope characterized by consolidated soft sediments. There were a lot of small shiny fish, Mueller's pearlside (*Marrilicus meulleri*) hovering above the sediment. They were the most abundant in this habitat. We witnessed one of them sticking their heads in the sediment, which looked like something was preying on it, but they were actually foraging. They seem to be only localized around the soft sediments and at the base of the hardground. There were a couple beardfish, *Polymixia* sp., foraging around the soft sediment habitats. We also saw some green-eye fish (*Bembrops gobiodies*) and a *Chaunax* sp. toadfish in the sandy sediment. The green-eye fish were also common along the wall, along with the roughy (*Gephroberyx* or *Hoplostethus* sp.). We also saw small bluefish with big eyes (*Epigonus* sp.). We observed two queen snappers (*Etelis oculatus*) at ~18:20 and 18:58 UTC. Towards the end of the dive there was *Chlorophthalmus agassizi* and an unknown fish possibly from the family Scorpaenidae (18:28 UTC). There was a small, thin silvery fish observed in the water column, which could be *Benthodesmus tenuis*.

sea urchins (*Linopneustes* sp.). We did observe one live urchin but otherwise we saw mostly bare skeletons. There was a possibly new irregular sea urchin (red in color) spotted during this dive in the soft sediments. Sea stars were far more abundant at this site than on the last three dive sites. We observed at least four new species for this expedition on this dive, *Peltaster* sp. (small white sea star), *Henricia* sp. (white sea star), *Odontaster*? sp. (orange sea star), and a slime star. These sea stars were more abundant along the gentle sloping faces of the hardground. We also recorded two species of sea cucumber, but there were only located around the end of the dive, towards the tops of the wall and in the soft sediments. Throughout the dive, and mostly along the wall, we found at least two species of sea urchins in the families Cidaridae and Aspidodiadematidae. There was a unique brittle star observed on a whitish and yellowish *Stichopathes* sp. black coral, which might be *Asteronyx* sp. or a close relative.

Glass sponges were the most abundant sponges. There were a few scattered colonies in the soft sediment. We observed smaller glass sponges along the walls. A newer, unidentified vase glass sponge was sighted at 17:02 UTC. Most of the sponges were small, whitish or yellowish in coloration. There were some demosponges, but they were mostly small in size.

Much of the lower portion of the wall was dominated by black coral whips (Stichopathes sp.) with occasional Asteronyx sp. brittle stars. Scleractinians were less abundant on the wall compared to black corals. Cup corals (cf. Javania sp.), as well as a few colonial scleractinians (Solenosmila cf. variabilis) were present on vertical faces. Crypthelia sp. hydrocorals were also present in abundance throughout this portion of the dive, usually associated with overhangs or lips. On more gentle slopes near the top of this feature, plexaurid octocorals were observed (?Scleracis sp.) attached to the underside of overhangs. None of these colonies were particularly large. Large branching structures, thought to be dead octocorals, seemed to be completely dominated by zoanthids over the entire dive length. Near the end of the dive, moving across slope near an extended platform, we encountered one bamboo coral (?Cladarisis sp. or similar), as well as a large unidentified black coral (cf. Tanacetipathes sp.). In the last half hour of the dive numerous small (<10 cm height) octocoral fans thought to be in the genus Primnoidae (possibly Acanthopimnoa sp. or similar) were observed in high densities. We observed some predation events. There was an anemone feeding on a pearlside at the Notable beginning of the dive. We also saw a squat lobster feeding on another pearlside that might have been damaged from the ROV thrusters. There were also a lot of broken bivalve shells at Observations the base of the hardground area.







Samples Collected					
Sample ID	EX1811_D04_S1B				
Date (UTC)	20111104	Spec ID: EXIST1_0C4_010	4 15 Autor		
Time (UTC)	184050	Field ID: Plexaindae Vessel: Okeanos Explorer CruiseID/NevEP EXISI.1/DVE04 UTC Date Time: 2018/11/01/184600	12 13 Induction		
Depth (m)	456.745	0 Due Site: Atlantic Coean, St. Crok Amphilite.ter Lat/Lon/Deptim(): 17:598/-64.8876/456.5 Preservative: ELOH	a Prototal		
Temp. (°C)	13.525		Internet		
Field ID(s)	Plexauridae		รางการการการการการการการการการการการการการก		
Commensals	No commensals				
Comments	Possibly Scleracis sp.				
Sample ID	EX1811_D04_02B		S)		
Date (UTC)	20181104	A A A A A A A A A A A A A A A A A A A			
Time (UTC)	193116				
Depth (m)	446.94		W/x)		
Temp. (°C)	13.503				
Field ID(s)	Antipatharian	A set of the set of th			
Commensals	Commensal Sample ID	Field Identification	Count		
	EX1811 D04 02B A01	Chirostylidae	1		
	EX1811_D04_02B_A02	Shrimp. Possibly Mysid?	2		
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

