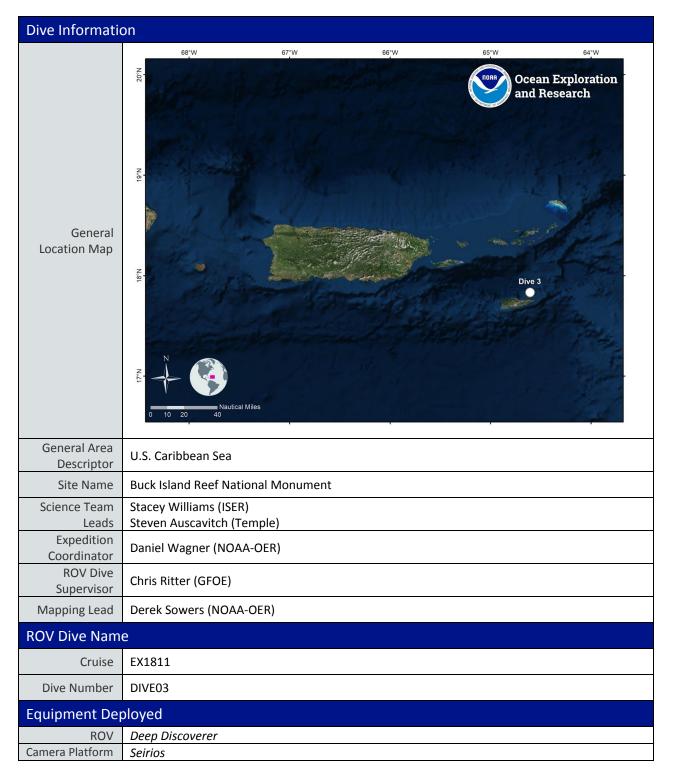


Okeanos Explorer ROV Dive Summary

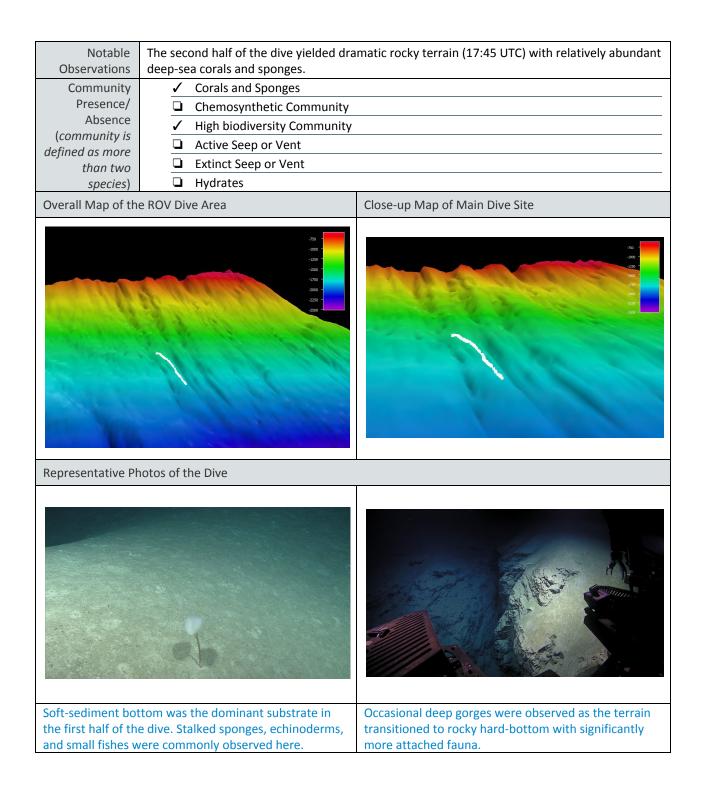


ROV	🗸 CTD	1	Depth	1	Altitude
	 Scanning So 	nar 🗸	USBL Position	1	Heading
	✓ Pitch	1	Roll	1	HD Camera 1
Measurements	✓ HD Camera	2 🗸	Low Res Cam 1	1	Low Res Cam 2
	✓ Low Res Car		Low Res Cam 4		Low Res Cam 5
Equipment					
Malfunctions	None				
ROV Dive Summary Data (from processed ROV data)	In Water: 2018-11-02T12:30:07.400241 17°, 50.64' N ; 64°, 37.019' W				
	On Bottom: 2018-11-02T13:38:28.060446 17°, 50.737' N ; 64°, 36.849' W				
	Off Bottom: 2018-11-02T19:30:34.665917 17°, 50.395' N ; 64°, 36.812' W				
	Out Water: 2018-11-02T20:36:14.435927 17°, 50.509' N ; 64°, 36.355' W				
	Dive duration:	8:6:7			
	Bottom Time:	5:52:6			
	Max. depth:	1812.0 m			
Special Notes	N/A				
Special Notes	NA				
	Newse	A ffilled and		Email	
	Name	Affiliation		Email	
	Amanda Demopoulos	US Geological Surv		ademo	poulos@usgs.gov
	Amanda Demopoulos Asako Matsumoto	US Geological Surv Chiba Institute of	Fechnology	ademo amatsu	egorgonian.jp
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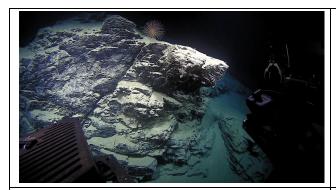


	The purpose of the dive was exploratory with an emphasis on surveying and characterizing
	deep-sea coral and sponge communities. The dive also sought to document deepwater
Dive Purpose	demersal fish species, as well as their habitat preferences along the dive track. The dive track
	was designed to start just outside the Monument boundary and traversed southward into the Monument up a steep slope.
	The dive began on a steep sedimented slope to the north of the boundary of Buck Island Reef
	National Monument at 1812 m. For so much sediment in first half, heading southward into the boundary and upslope, little evidence of wasting or slumping was noted by shore-side geologists. One particularly deep slump, at least 10 m in height, was seen near the half point of the dive with substantial exposed Fe-Mn crusted rock substrate. The second half of the dive from this point transitioned to rocky outcrop and ledge formations of angular black Fe-Mn crusted rocks. This portion of the dive had substantial encrusting and attached life.
	The diversity of demersal fish species was lower than Dive 02 and about the same as Dive 01. There were more fish identified and observed at the beginning of the dive at deeper depths (1,800 m) and on flat soft sediments. Four species of fish were observed during this dive, with the fish genera <i>Aldrovandia</i> and <i>Ipnops</i> being most abundant. The species observed at the beginning of the dive (UTC 14:02) in order as observed were <i>Bathyseurus</i> on <i>Ipnops</i> myrravi
	beginning of the dive (UTC 14:03) in order as observed were <i>Bathysaurus</i> sp., <i>Ipnops murrayi</i> , <i>Bathypterois grallator</i> , and <i>Aldrovandia</i> sp. halosaur. At the beginning of the dive there was an isopod seen on the pectoral fin of a fish. We also observed two pieces of wood fall during this dive, both of which looked recent. The first piece has some small crustaceans inhabiting the piece, while the second piece had three squat lobsters.
Dive	Sea cucumbers were one of the most abundant invertebrates, with three species identified (all likely new species for this cruise). There were a lot of <i>Enypniastes</i> sp. swimming holothurians in the water column. There was also a <i>Phormosoma</i> sp. at the beginning of the dive. There were only a couple of stalked crinoids and one unstalked crinoid observed. Brittle stars (<i>Ophiocreas oedipus</i>) were more common hanging on <i>Metallogorgia melanotrichos</i> coral colonies. Some other interesting organisms spotted during the dive were gooseneck barnacles,
Description	branching bryozoans, a pinkish corallimorph, scarlet gamba prawns, and squat lobsters. Vase <i>Euplectella</i> sp. sponges were common on the flat soft sediment and we also spotted a couple of stalked <i>Euplectella</i> sponges. Ferreidea sponges were common and usually small. There was also a long glass sponge <i>Euritidae pleurochorium</i> . Demosponges were common on the faces of the rocks and usually small. There were a small blue and black demosponge reoccurring on the faces of the rocks, and some <i>Geodia</i> species also observed. Dr. Christopher Kelley made some identifications of sponges observed on the dive: <i>Caulophacus</i> sp., <i>Hertwigia</i> sp., Rossellidae, <i>Heteroscleromorpha</i> sp., <i>Hyalonema</i> sp., and <i>Tetractinellida</i> sp.
	Through the first half of the dive on the heavily-sedimented slope, deep-sea corals were sparse. Two species, one unidentified sea pen and one unbranched bamboo coral, were observed in this section of the dive. Upon reaching hard substrate outcrops and steep terrain, a greater coral diversity was observed. These included black corals (<i>Bathypathes</i> spp., <i>Heteropathes</i> cf. <i>americana</i> , <i>Stichopathes</i> sp.), octocorals (<i>Anthomastus</i> sp., Stolonifera, <i>Metallogorgia melanotrichos</i> , <i>Iridogorgia splendens</i>), stylasterids (<i>Crypthelia</i> sp.), and occasional sea pens (<i>Umbellula</i> sp.) in areas of soft bottom. <i>M. melanotrichos</i> was the most abundant coral and occurred in both advanced (no branchlets off main stem except the apical tuft of polyps) and young (numerous branchlets along the main axis) colony morphologies. Occasional small bamboo corals, possibly in the genus <i>Cladarisis</i> or similar clade, were also observed on rocky outcrops. Near the dive end black corals similar to <i>Parantipathes</i> sp. were observed. Ultimately, the final planned waypoint was never reached in favor of tracking rock hard-bottom ledges to the east of the intended dive track. Off-bottom occurred at 1607 m depth.











Outcroppings and rocky ledges were the dominant terrain in the second half of the dive. Chrysogorgiid octocorals, black corals, bryozoans, and sponges were commonly attached to hard substrate.

Sediment drape on rocky outcrops was locally heavy and resulted in fewer attached organisms.

Samples Collected

No samples were collected on this dive

Please direct inquiries to:

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

