

Okeanos Explorer ROV Dive Summary



ROV Measurements	🖌 CTD	✓ Depth	✓ Altitude
	Scanning Sonar	✓ USBL Position	✓ Heading
	✓ Pitch		✓ HD Camera 1
	HD Camera 2	Low Res Cam 1	Low Res Cam 2
		Low Res Cam 4	
-	V LOW Res Call 5	deployed the pilot had trouble los	V LOW Res Call 5
Equipment	immediately after D2 was deployed, the pilot had trouble locking it into auto heading. The ROV		
Malfunctions	stayed hear the surface for an extended time until the issue was solved, at which time the ROV		
	descended to the seanoor		
	in water.	18°. 17.097' N : 67°. 27.854' W	
		-, , - ,	
	On Bottom:	2018-11-14T18:56:43.127663	
		18°, 17.378° N ; 67°, 27.589° W	
ROV Dive	Off Bottom:	2018-11-14T21:58:41.001773	
Summary Data		18°, 17.589' N ; 67°, 27.661' W	
(from			
processed ROV	Out Water:	2018-11-14122:31:28.550295 18° 17 925' N · 67° 27 278' W	
data)		10,17.525 N,07,27.276 W	
	Dive duration:	5:57:47	
	- ··· -··		
	Bottom Time:	3:1:57	
	Max. depth:	398.0 m	
C	The ROV dive was shorter	than usual today as sea conditions	delayed launching,
Special Notes	followed by an issue with	the ROV software controls near the	e surface.
	Name	Affiliation	Email
	Aurea Rodriguez	University of Puerto Rico at Mayagüez	auryro@gmail.com
	5	, , , ,	1 00
	Christopher Mah	National Museum of Natural History	brisinga@gmail.com
	Christopher Mah Daniel Wagner	National Museum of Natural History NOAA/OER	brisinga@gmail.com daniel.wagner@noaa.gov
	Christopher Mah Daniel Wagner Debi Blaney	National Museum of Natural History NOAA/OER NOAA/OER	brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov
	Christopher Mah Daniel Wagner Debi Blaney Graciela Garcia-Moliner	National Museum of Natural History NOAA/OER NOAA/OER Caribbean Fishery Management Council	brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov graciela_cfmc@yahoo.com
	Christopher Mah Daniel Wagner Debi Blaney Graciela Garcia-Moliner Elizabeth Gugliotti	National Museum of Natural History NOAA/OER NOAA/OER Caribbean Fishery Management Council NOAA/NCCOS	brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov graciela_cfmc@yahoo.com gugliottief@g.cofc.edu
	Christopher Mah Daniel Wagner Debi Blaney Graciela Garcia-Moliner Elizabeth Gugliotti Jason Chaytor	National Museum of Natural History NOAA/OER NOAA/OER Caribbean Fishery Management Council NOAA/NCCOS US Geological Survey	brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov graciela_cfmc@yahoo.com gugliottief@g.cofc.edu jchaytor@usgs.gov
Scientists	Christopher Mah Daniel Wagner Debi Blaney Graciela Garcia-Moliner Elizabeth Gugliotti Jason Chaytor Jaymes Awbrey	National Museum of Natural History NOAA/OER NOAA/OER Caribbean Fishery Management Council NOAA/NCCOS US Geological Survey University of Louisiana at Lafayette	brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov graciela_cfmc@yahoo.com gugliottief@g.cofc.edu jchaytor@usgs.gov jawbrey@louisiana.edu
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Scientists Involved (provide name,	Christopher Mah Daniel Wagner Debi Blaney Graciela Garcia-Moliner Elizabeth Gugliotti Jason Chaytor Jaymes Awbrey Jim Masterson Kimberly Galvez	National Museum of Natural History NOAA/OER NOAA/OER Caribbean Fishery Management Council NOAA/NCCOS US Geological Survey University of Louisiana at Lafayette Harbor Branch Oceanographic Institute University of Miami	brisinga@gmail.com daniel.wagner@noaa.gov debi.blaney@noaa.gov graciela_cfmc@yahoo.com gugliottief@g.cofc.edu jchaytor@usgs.gov jawbrey@louisiana.edu jmaster7@fau.edu kgalvez@rsmas.miami.edu
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Dive Description	Ine nive started on a flat hard substrate that was covered by a thin veneer of sediment. The substrate was broken in a stepwise fashion with sand channels and drifts dividing the steps. The substrate was rather smooth and there were ripples in the sand, indicating that this site experiences high currents. The main benthic fauna at this site were sponges and echinoderms. Tiny white, cotton ball-looking sponges were common throughout the dive. It is unclear if these are glass or demosponges. Yellow encrusting sponges were common along the wall faces, and other encrusting sponges (orange and blue) were in high abundance. Overall, the sponge abundance and diversity was high. Possible, Corallistidae and Petrosiidae (one looked to be encrusting), and <i>Farrea</i> sp. were present in high quantities. Deep-sea corals were poorly represented at this site with only four coral species observed from the Primnoidae, Nepthildae, Antipatharia, and Scleractinia. Near the ROV landing spot on the seafloor, we observed small primnoid fans (likely <i>Plumarella</i> sp.), as well grey black coral whips (<i>Stichopathes</i> sp.), but neither of these were present later in the dive on top of the feature. Several species of 2-3 cm tall cup corals were quite common when zooming close to the substrate at most locations of the dive, but were unidentifiable from video. One nepthild, similar to one observed off Caja de Muerto Island, was observed on an overhang in the vicinity of the crest of this mound. This site had the most crinoids when comparing to other dives on this expedition. These trinoids were different in that they had many more arms from what we have been seeing so far. We saw a lot of <i>Holopus</i> sp. crinoids. They were often at the edge of the ledges. We saw three types of sea atars, <i>Tamaria</i> sp., <i>Plinthaster or Peltoster</i> sp. (white small cookie star), and <i>Plinthaster dentatus</i> eating a sponger. The other fish species observed during the dive were boarfish (<i>Antigonia capros</i>), orange roughy (<i>Hoplostethus atlanticus</i>), <i>Polylepion</i> sp.
Notable	Aggregations of vellow crinoids near edges of walls
Observations	Aggregations of yellow crinolos near edges of walls.
Community	✓ Corals and Sponges
Presence/	Chemosynthetic Community
Ausence (community is	 High biodiversity Community
(community is	Active Seep or Vent
defined as more	
than two	Extinct Seep or Vent
snecies)	
Species)	I I I I I I I I I I I I I I I I I I I





No samples were collected



Please direct inquiries to:

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

