

Okeanos Explorer ROV Dive Summary



2014	🖌 CTD	🗸 Depth	✓ Altitude		
	 Scanning Sc 	onar 🖌 USBL Position	✓ Heading		
ROV	🖌 Pitch	🗸 Roll	✓ HD Camera 1		
weasurements	✓ HD Camera	2 🖌 Low Res Cam 1	✓ Low Res Cam 2		
	Low Res Car	m 3 🗸 Low Res Cam 4	✓ Low Res Cam 5		
	The salinity measurements by the CTD sensors on <i>D2</i> showed erroneous values throughout the				
Equipment	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.				
Malfunctions					
	In Water: 2018-11-11T12:20:20.662907				
	18°, 50.779' N ; 66°, 24.048' W				
	On Bottom:	2018-11-11T14:16:50.110047	2018-11-11T14:16:50.110047		
		18°, 50.812' N ; 66°, 23.841' W	18°, 50.812' N ; 66°, 23.841' W		
ROV Dive					
Summary Data	Off Bottom: 2018-11-11T18:52:41.297116				
(from		18, 50.720 N, 00, 25.000 W			
processed ROV	ROV Out Water: 2018-11-11T20:41:16.206855				
data)		18°, 50.846' N ; 66°, 22.78' W			
	Dive duration: 8:20:55				
	Bottom Time: 4:35:51				
	Max. depth: 3342.0 m				
Special Notes					
	Namo	Affiliation	Empil		
	Asako Matsumoto	Chiba Institute of Technology			
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Dive Description	The habitat at the beginning of the dive was characterized by soft sediment mixed with step-like formations of rock draped heavily with soft sediments. Soft substrate throughout most of the dive was composed of pteropod shells, foraminiferan shells, and sponge debris. Much of the dive took place on hard, consolidated bottom with significant FeMn crusts, threby making rock sampling difficult. Vertical or steep slopes (>45 degrees) dominated much of the dive. Little evidence was found of failures in the rock indicated by freshly exposed surfaces. This may indicate that this landslide may not have been as active as previously thought. Even though the end waypoint was not quite reached, we made important observations of geological foundations in this area over a significant vertical depth range (3,024-3,342 m). There were only six fish species of demersal fish at this location, and most occurred at the beginning of the dive. These species included grenadier (<i>Nezumia</i> sp.), <i>Bathysaurus</i> sp., Halosaurs (<i>Aldrovandia</i> sp.), <i>Ipnops murrayi</i> , synaphobranchid eels, and one ophidiform. We saw two <i>Bathysaurus</i> sp., which appeared quite large, greater than 1 m in length. They also had the same white amphipods on the pectoral and caudal fins, which were interpreted as being parasitic on an earlier dive. There was a bell-shaped glass sponge very common at the Sponge fauna during the dive. There was a bell-shaped glass sponge very common at the beginning of the dive. We made one collection of a glass sponge very common at the begins of the dive. We made one collection of a glass sponge very common at the begins of the dive. We made one collection of a glass say as a cladorizid sponge, but it was very small.		
Notable Observations	We observed scattered trash including fishing line and beverage cans throughout the dive.		
Community Presence/	✓ Corals and Sponges		
Absence	High biodiversity Community		
(community is			
defined as more	Active Seep or Vent		
than two	Extinct Seep or Vent		
species)	Hydrates		







Samples Collected				
Sample ID	EX1811_D11_01G			
Date (UTC)	20181111	and the second second		
Time (UTC)	174907			
Depth (m)	3033.858			
Temp. (°C)	2.717			
Field ID(s)	Rock			
Commensals	Commensal Sample ID EX1811_D11_01G_A01 EX1811_D11_01G_A02	Field Identification Bryozoan Glass Sponge	Count 1 1	
	EX1811_D11_01G_A03 Glass Sponge 1		1	
Comments				
Sample ID	EX1811_D11_02B			
Date (UTC)	20181111			
Time (UTC)	175654	Sector State	11 D11_028 Sponse and Explorer	
Depth (m)	3033.963	Construction Territoria	EX1811/DIVE11 20181111/175654 an, Vega Baja Landslide .8456/-65-394 i/3033 96	
Temp. (°C)	2.72	Prestru	itive: HUM	
Field ID(s)	Porifera			
Commensals	No commensals			
Comments				



Sample ID	EX1811_D11_03B	See D. DTB11 D11 AD
Date (UTC)	20181111	Field TD: 1993 2017 (1994 Versich Officialisten Aue Craise ID/Dereit / Fisch 1997 111 UC Deter Time 2013 11 (1911 111)
Time (UTC)	181159	Dive Stite Atlantic Ocean Vigo Tigo Landhile LatVon/Depth/mit/18/265/64.3784/7012:73 Preservative: ELOH
Depth (m)	3032.727	and the second sec
Temp. (°C)	2.735	
Field ID(s)	Pedicellasteridae	
Commensals	No commensals	
Comments		

Please direct inquiries to:

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