OKEANOS EXPLORER ROV DIVE SUMMARY

Site Name	Puerto Rico Trench- South Wall		
ROV Lead/Expedition Coordinator	Brian Bingham/ Brian Kennedy		
Science Team Leads	Andrea Quattrini and Mike Cheadle		现在是条件节告
General Area Descriptor	Puerto Rico and US Virgin Islands		San Juan Virgin Islands Puerto Rice Pence
ROV Dive Name	Cruise Season	Leg	Dive Number
	EX1502	3	DIVE09
Equipment Deployed	ROV:	Deep Discoverer	
	Camera Platform:		Seirios
ROV Measurements	D2 CTD	Depth	Altitude
	Scanning Sonar	USBL Position	☐ Heading
	Pitch	Roll	HD Camera 1
	HD Camera 2 Temperature Probe	ROV HD 2 D2 DO Sensor	Seirios CTD Seirios DO sensor
		y DO sensor that was last calibrated in 2	
Equipment Malfunctions		pilots noticed D2's high voltage oil co	,
ROV Dive Summary (From processed ROV data)	In Water at: Out Water at: Dive duration: Bottom Time:	nmary: EX1502L3_DIVE09 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^	
Special Notes			
Scientists Involved (please provide name / location / affiliation / email)	Mike Cheadle Amanda Demopoulos Mike Ford Scott France Graciela Garcia- Moliner Christopher Kelley Andrea Quanttrini Taylor Heyl	Mystic Aquarium & UConn University of Wyoming USGS NOAA Fisheries University of Louisiana at Lafayette Caribbean Fishery Management Council University of Hawaii USGS WHOI Montana State University	peter.auster@uconn.edu cheadle@uwyo.edu ademopoulos@usgs.gov michael.ford@noaa.gov france@louisiana.edu graciela.garcia- moliner@noaa.gov ckelley@hawaii.edu aquattrini@usgs.gov theyl@whoi.edu thomas.ritter@msu.montana.ed

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Purpose of the Dive

1) Pressure test ROVs to 6,000 m

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- 2) Investigate the lithology and stratigraphy of the rocks exposed in the south wall of the Puerto Rico Trench.
- 3) To document benthic communities living on and around the southern wall of the trench at a depth of 6,000 m.

Description of the Dive:

Representative Photos of the Dive

Today we conducted a 6,000 m ROV dive along the southern wall of the Puerto Rico Trench. The vehicles successfully reached 6,000m, but shortly thereafter the dive was aborted due to an issue with D2's high voltage oil compensator. Observations in the water column during descent and ascent included fish, ctenophores, salps, and siphonophores.

Close-up Map of Main Dive Site Close-up Map of Main Dive Site Close-up Map of Main Dive Site





Please direct inquiries to:

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