## OKEANOS EXPLORER ROV DIVE SUMMARY

Site Name	Engineering	Dive				
ROV Lead/Expedition Coordinator	Brian Bingt Brian Kenr		in the second second			
Science Team Leads	Andrea Quattrini and	Mike Cheadle	AND PROPERTIES			
General Area Descriptor	Puerto Rico and US	Virgin Islands	Sanduan Puerto Rico o Ponce			
	Cruise Season	Leg	Dive Number			
ROV Dive Name	EX1502	3	DIVE08			
Equipment Deployed	ROV:	Dee	Deep Discoverer			
	Camera Platform:		Seirios			
	D2 CTD	Depth	Altitude			
	Scanning Sonar	USBL Position	Heading			
ROV Measurements	Pitch	Roll	HD Camera 1			
	HD Camera 2	ROV HD 2	Seirios CTD			
	Temperature Probe	D2 DO Sensor	Seirios DO sensor			
Equipment Malfunctions	Operating with a secondary DO sensor that was last calibrated in 2013. Error in Depth sensor in SCS for both vehicles during descent. ROV team rebooted system which fixed the problem.					
	Dive Summary: EX1502L3_DIVE08					
	n Water at: 2015-04-25T17:06:35.984000 18°, 41.436' N ; 066°, 15.950' W					
	Out Water at: 2015-04-25T22:38:06.546000   18°, 41.603' N ; 066°, 15.405' W					
ROV Dive Summary (From processed ROV		n at: 2015-04-25T21:41:53.921000 18°, 41.530' N ; 066°, 15.826' W				
data)		5-04-25T18:01:04.656000 41.535' N ; 066°, 15.804' W				
	Dive duration: 5:31	5:31:30				
	Bottom Time: 3:40	3:40:49				
	Max. depth: 167	1678.1 m				
Special Notes						

Scientists Involved (please provide name /	Mike Cheadle Mike Ford Andrea	University of Wyoming NOAA Fisheries	cheadle@uwyo.edu michael.ford@noaa.gov
location / affiliation / email)	Quanttrini Christopher	USGS	aquattrini@usgs.gov
	Kelley	University of Hawaii	ckelley@hawaii.edu

## Purpose of the Dive

The purpose of this engineering dive was to give ROV pilots time to train on the manipulators and to check white balance control had been restored to one of the Zeus Plus cameras that had failed during Dive 01.

## Description of the Dive:

ROV *Deep Discoverer* landed on a soft sedimented bottom at a depth of 1678 m. ROV pilots spent time training with the manipulator arms, practicing with the SeaPoke, weights with different handles, the temperature probe, and setting up a remote GoPro camera stand. During the dive fauna observed included a few holothurians, shrimp, and a few fish. About half way through the dive, the manipulator was able to bring a "handful" of sediment to the camera for close inspection.



