


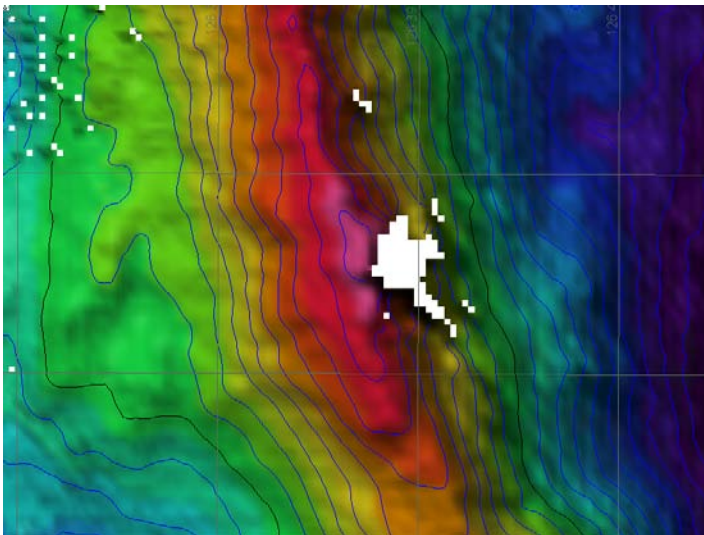
# OKEANOS EXPLORER ROV DIVE FORM

<b>Site Name</b>	Black Hole						
<b>ROV Lead</b>	Dave Lovalvo						
<b>General Area Descriptor</b>	400 km North of Bitung, Indonesia						
<b>UTC Date &amp; Time</b>	Deployment	7/6/2010 12:00 AM					
	Recovery	7/6/2010 8:46 AM					
<b>Bottom Time [HH:MM]</b>	[04:11]						
<b>Landing Time &amp; Location</b>	UTC Time	03:25			Depth [m]	1170	
	Latitude	5	°	14.943			N
	Longitude	126	°	39.373			E
<b>Off Bottom Time &amp; Location</b>	UTC Time	07:36			Depth [m]	1200 (approx)	
	Latitude	5	°	14.747			N
	Longitude	126	°	39.371			E
<b>ROV Dive Name</b>	Cruise Season		Leg		Dive Number		
	EX1004		LEG02		ROV07		
<b>Equipment Deployed</b>	ROV:		Little Hercules				
	Camera Platform:		Phoenix Camera Platform				
<b>ROV Measurements</b>	<input checked="" type="checkbox"/> CTD	<input checked="" type="checkbox"/> Depth		<input checked="" type="checkbox"/> Altitude			
	<input checked="" type="checkbox"/> Scanning Sonar	<input checked="" type="checkbox"/> USBL Position		<input checked="" type="checkbox"/> Heading			
	<input checked="" type="checkbox"/> Pitch	<input checked="" type="checkbox"/> Roll		<input checked="" type="checkbox"/> HD Camera			
	<input checked="" type="checkbox"/> Low Res Cam 1	<input checked="" type="checkbox"/> Low Res Cam 2					
<b>Equipment Malfunctions</b>	After recovering the ROV, a small amount of moisture was discovered in the HD camera housing in the camera platform.						
<b>Special Notes</b>	Click here to enter text.						
<b>Scientists Involved</b> <i>(please provide name / location / affiliation / email)</i>	David Butterfield/Seattle ECC/PMEL Verena Tunnicliffe/Seattle ECC/UVIC Tim Shank/WHOI/WHOI Santiago Herrera (student)/WHOI/WOI Catriona Munro (student)/WHOI/WOI Elizabeth Silbert (student)/WHOI/WOI Ellie Bors (student)/Seattle ECC/WHOI Jim Holden/Jakarta ECC/UMASS Xerandy – EX Control Room/Indonesia John Sherrin (student) – EX Control Room/U of Victoria						

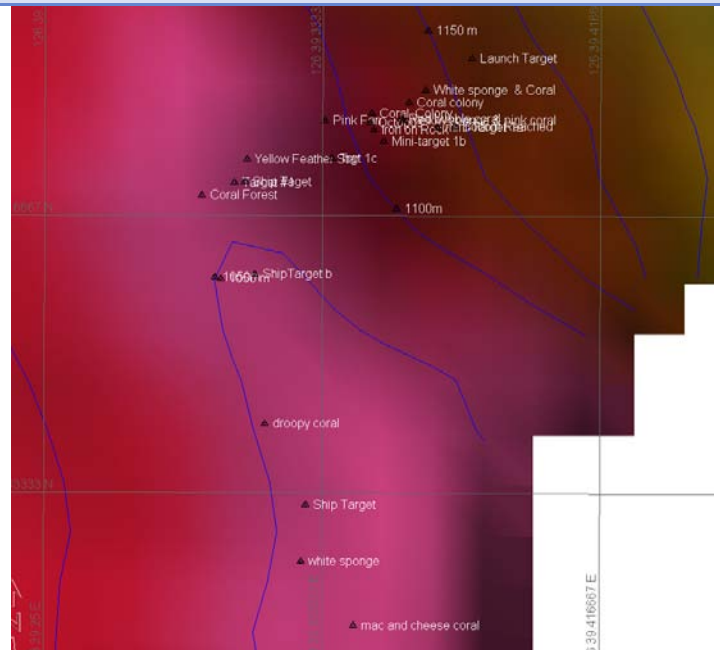
**Purpose of the Dive:** To explore [Click here to enter text.](#)

**Description of the Dive:**

The crew launched the ROV for dive 7 at 5° 14.964'N 126° 39.378'E around 0815. The dive began 150m below the summit on the eastern slope of a steep ridge. The top of the ridge was at a depth of approximately 1050m. The pilots traversed the ROV up a steep face of rock that was lightly covered in fine-grained pelagic sediment and contained several different species of corals, sponges and crinoids. The Team captured excellent close-ups of what may turn out to be a number of completely new species for scientists. Biomass appeared to increase as we approached the summit ridge and was mostly dominated by sessile species. We also happened to spot an octopus hiding beneath a pile of rocks. As the sub traveled in a southerly direction down the ridge, we found an area with relatively few organisms that appeared to have been recently disturbed. We did not find any evidence of hydrothermal or volcanic activity at this site. There were no issues with the lateral thruster. However, after recovering the ROV, a small amount of moisture was discovered in the HD camera housing in the camera platform.



Overall Map of ROV Dive Area at Black Hole



Close-up Map of Main Dive Site

**Representative Photos of the Dive**



20100706\_04h40m08s20\_ROVHD\_ROCKS\_CORAL  
The pilots traversed the ROV up a steep face of rock that was lightly covered in fine-grained pelagic sediment and contained several different species of corals, sponges and crinoids.



20100706\_05h29m07s111\_ROVHD\_CORAL\_ZOOM  
Biomass appeared to increase as we approached the summit ridge and was mostly dominated by sessile species

**Please direct inquiries to:**

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