


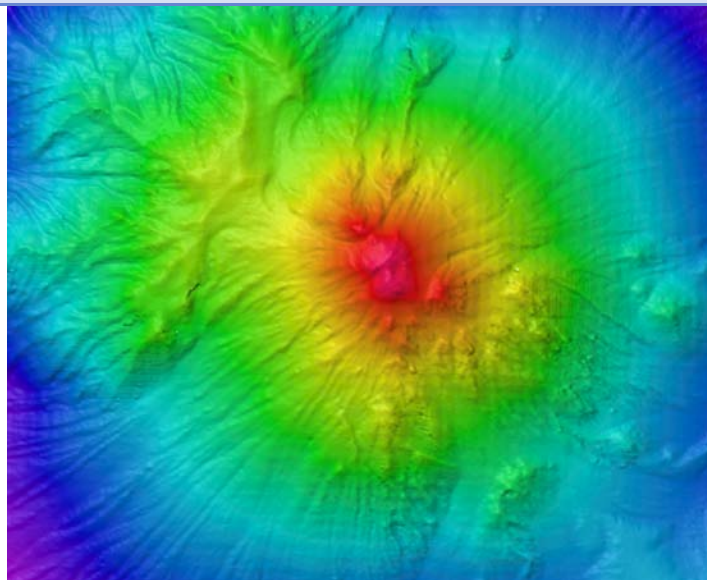
OKEANOS EXPLORER ROV DIVE FORM

Site Name	SouthMount					
ROV Lead	Dave Lovalvo					
General Area Descriptor	160 km N of Bitung, Indonesia					
UTC Date & Time	Deployment	7/11/2010 12:33 AM				
	Recovery	7/11/2010 8:51 AM				
Bottom Time [HH:MM]	[7:10]					
Landing Time & Location	UTC Time	01:10		Depth [m]	490	
	Latitude	2	°	50.832	N	
	Longitude	125	°	03.424	E	
Off Bottom Time & Location	UTC Time	08:20		Depth [m]	461	
	Latitude	2	°	50.812	N	
	Longitude	125	°	03.690	E	
ROV Dive Name	Cruise Season	EX1004		Leg	LEG02	
				Dive Number	ROV11	
Equipment Deployed	ROV:	Little Hercules				
	Camera Platform:	Phoenix Camera Platform				
ROV Measurements	<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				
Equipment Malfunctions	Click here to enter text.					
Special Notes	Click here to enter text.					
Scientists Involved <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/WHOI Catriona Munro (student)/WHOI/WHOI Elizabeth Silbert (student)/WHOI/WHOI 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:

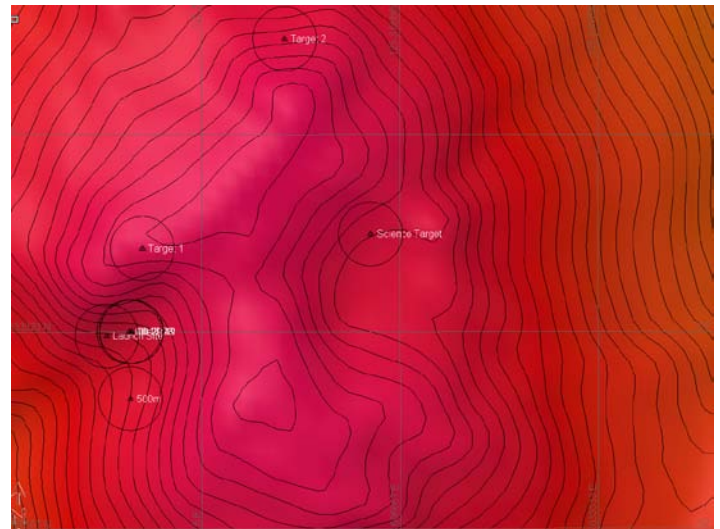
The crew launch the ROV for Dive 11 at 2° 51.76'N 125° 02.06'E around 0815. The ROV descended to a volcanic cone shaped seamount hoping to find new vents and their associated critters. Instead we were astonished by the diversity of corals, sponges, crinoids, and countless fascinating invertebrates. Personnel were immediately struck by the incredible diversity of colors and species on display as we rose up along the steep WSW slope toward the summit. Some of the organisms imaged included a 30cm wide, 20cm tall sea spider (pycnogonid) whose bright orange spindly legs and specially modified arms were quite a sight to see; a colorful octopus who danced around frantically in search of a place to hide; a large flat fish with big protruding eyes; a striped crinoid; and a wide array of fish of different types and colors including one species that had little feeler fins beneath its pectoral fins. We also saw some large white venus flytrap anemones, many colorful corals of many different species and morphologies, a huge brittle star filter feeding on a rock, large tubular sponges with striped fish feeding inside them, and fluorescent blue mucous nets that stretched up to a meter long from rock to rock. Overall this site contained the greatest diversity of any site we have found thus far.

Overall Map of ROV Dive Area



Overview of "SouthMount"

Close-up Map of Main Dive Site



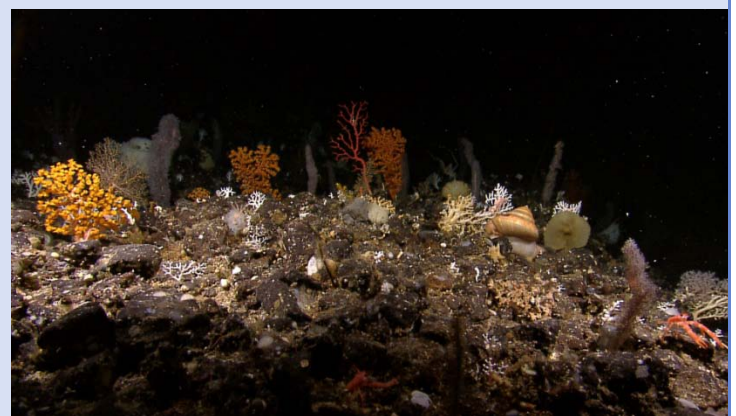
Hypack area map of dive site

Representative Photos of the Dive



20100711_01h31m03s09_ROVHD_CORAL-01340323

We were astonished by the diversity of corals, sponges, crinoids, and countless fascinating invertebrates encountered on today's dive site.



20100711_05h43m50s13_ROVHD_SNAIL

Personnel were immediately struck by the incredible diversity of colors and species on display as we rose up along the steep WSW slope toward the summit.

Please direct inquiries to:

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