


OKEANOS EXPLORER ROV DIVE FORM

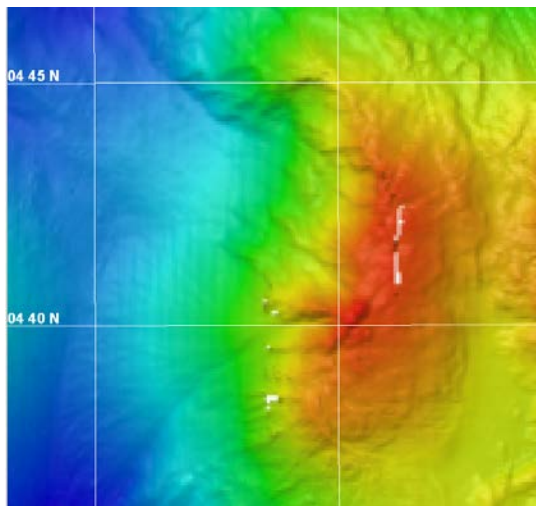
Site Name	Site R (aka Potter Humocky)							
ROV Lead	Dave Lovalvo							
General Area Descriptor	365 km North of Bitung, Indonesia							
UTC Date & Time	Deployment	7/1/2010 2:07 AM						
	Recovery	7/1/2010 8:46 AM						
Bottom Time [HH:MM]	[04:52]							
Landing Time & Location	UTC Time	03:04		Depth [m]	900			
	Latitude	4	°	40.079	'	N		
	Longitude	125	°	15.246	'	E		
Off Bottom Time & Location	UTC Time	07:57		Depth [m]	920			
	Latitude	4	°	40.416	'	N		
	Longitude	125	°	15.378	'	E		
ROV Dive Name	Cruise Season		Leg		Dive Number			
	EX1004		LEG02		ROV03			
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/WOI Jill McDermott (student)/WHOI/WOI Catriona Munro (student)/WHOI/WOI Elizabeth Silbert (student)/WHOI/WOI Kristine Konsinski (student)/Seattle ECC/UH Ellie Bors (student)/Seattle ECC/WHOI Jim Holden/Jakarta ECC/UMASS John Sherrin (student) – EX Control Room/U of Victoria Xerandy – EX Control Room/Indonesia							

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

Description of the Dive:

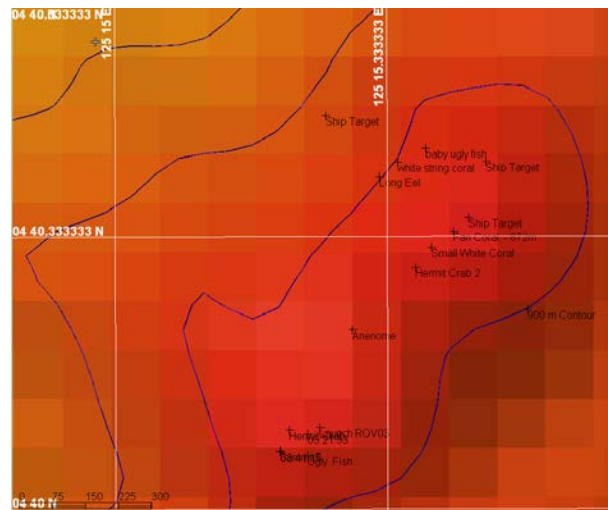
The initial dive target was 04° 40.10' N, 125° 15.25'E. The target is nearby the site termed 'R' in the 2004 McConachy paper. The only prior information available on this site was single beam echosounder data and one CTD cast. The ROV descended to a peak at a depth of about 900m on a large seamount with a 10km long ridge. We transited along a saddle to another peak and explored the area surrounding it. The seafloor on this dive was dominated by talus. In a few places on steep slopes was truncated with pillow flows. In one area there was columnar jointing. No volcanoclastic deposits were seen. There was one minor area of hydrothermal ochre on the summit ridge. We saw a very interesting hermit crab that had a symmetrical soft coral for a shell. The crab was approximately 15cm in diameter and had asymmetrical furry chelae that appeared to be covered with encrusting sponges. We saw another of these crab and coral combinations later in the dive. The ROV imaged several species of coral, shrimp, hydroids, an eel-like fish, and a very unique looking squid that at first glance appeared to have a siphonophore attached to it. It was difficult to identify what we were looking at but the squid was certainly a breathtaking example of the diversity of unique life that lies deep beneath the ocean surface.

Overall Map of ROV Dive Area



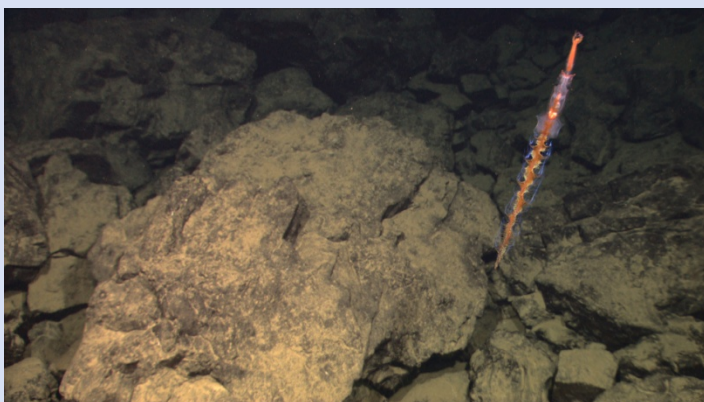
Hypack view of overall dive site at R

Close-up Map of Main Dive Site



Hypack screen grab of all dive Targets

Representative Photos of the Dive



20100701_05h31m27s00_ROVHD_SQUID

The seafloor on this dive was dominated by talus. This incredible squid of the family Chiroteuthidae was imaged during the dive, and is perhaps the best image of a squid in this family with such ornamentation to-date.



20100701_03h58m54s27_ROVHD_CRAB_MUPPET

Several interesting critters were imaged during the dive, including two hermit crabs with asymmetrical chelae that appeared to be covered with encrusting sponges, and each hosting symbioses with a zoanthid colony on its back. Several species of coral, shrimp, hydroids, an eel-like fish, and squid were also imaged.

Please direct inquiries to:

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