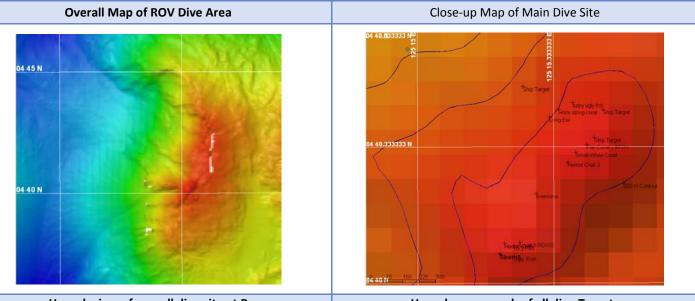
## OKEANOS EXPLORER ROV DIVE FORM

Site Name	S			E Barado							
ROV Lead	Dave Lovalvo						30				
General Area Descriptor	365 km North of Bitung, Indonesia								ano: lore		
UTC Date & Time	Deployment	loyment 7/1/2010 2:07 AM						5		2	
UIC Date & Time	Recovery	7/1/	8:4	6 AM					5/		
Bottom Time [HH:MM]	[04:52]						07801 US 04 0446 510 M 191107.02 M	2200 FEIRARI Europa Technologiak at af Stala Gasquisher DAA, U.S. Nevy INGA, GEBC 2512 17 591 E. Hev. 9306	J	Google Eyé at 4905.05 mi O	
	UTC Time	03:04			Depth [m]			900			
Landing Time & Location	Latitude	4		⁰	40.079				1	Ν	
	Longitude	125		Q		15.246			1	E	
	UTC Time		07:	:57		Depth [m]			920		
Off Bottom Time & Location	Latitude	4		Q		40.416			1	N	
	Longitude	125		Q		15.378			'	E	
ROV Dive Name	Cruise Season		Leg			Dive Number				er	
KOV Dive Name	EX1004		LEG02			ROV03					
Equipment Deployed	ROV:			Little Hercules							
	Camera Platfom:			Phoenix Camera Platform							
ROV Measurements	CTD Scanning Sonar			Depth USBL Position			Altitude				
	Scanning Sonar						HD Camera				
	Low Res Cam 1			Low Res Cam 2							
Equipment Malfunctions	Click here to enter text.										
Special Notes	Click here to enter text.										
	David Butterfield/Seattle ECC/PMEL										
Scientists Involved (please provide name /	Verena Tunnicliffe/Seattle ECC/UVIC										
	Tim Shank/WHOI/WHOI Santiago Herrera(student)/WHOI/WOI										
	Jill McDermott (student)/WHOI/WOI										
	Catriona Munro (student)/WHOI/WOI										
location / affiliation / email)	Elizabeth Silbert (student)/WHOI/WOI										
Cintany	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										

## **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 volcaniclastic 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.



Hypack view of overall dive site at R

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