


# OKEANOS EXPLORER ROV DIVE FORM

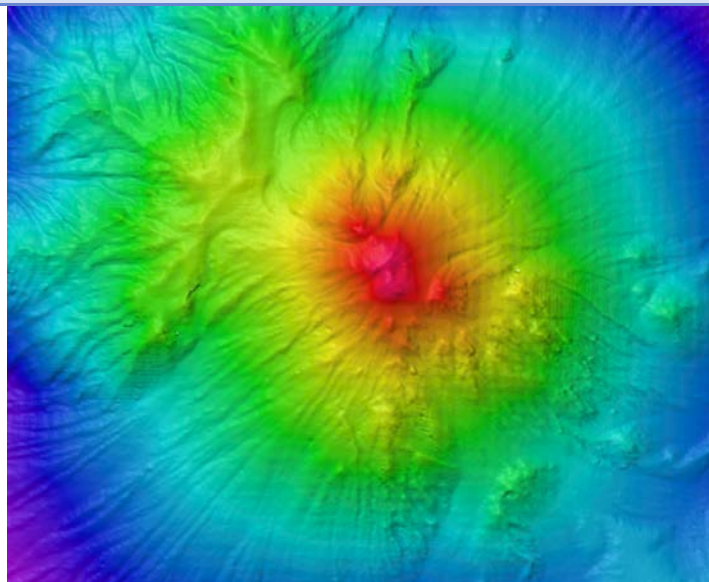
<b>Site Name</b>	Site K						
<b>ROV Lead</b>	Dave Lavalvo						
<b>General Area Descriptor</b>	160km N of Bitung, Indonesia						
<b>UTC Date &amp; Time</b>	Deployment	7/12/2010 9:01 PM					
	Recovery	7/13/2010 6:28 AM					
<b>Bottom Time [HH:MM]</b>	Click here to enter text.						
<b>Landing Time &amp; Location</b>	UTC Time	21:31			Depth [m]	466	
	Latitude	2	°	50.650		'	N
	Longitude	125	°	03.520		'	E
<b>Off Bottom Time &amp; Location</b>	UTC Time	05:53			Depth [m]	576	
	Latitude	2	°	50.760		'	N
	Longitude	125	°	03.300		'	E
<b>ROV Dive Name</b>	Cruise Season		Leg		Dive Number		
	EX1004		LEG02		ROV13		
<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>	Click here to enter text.						
<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:**

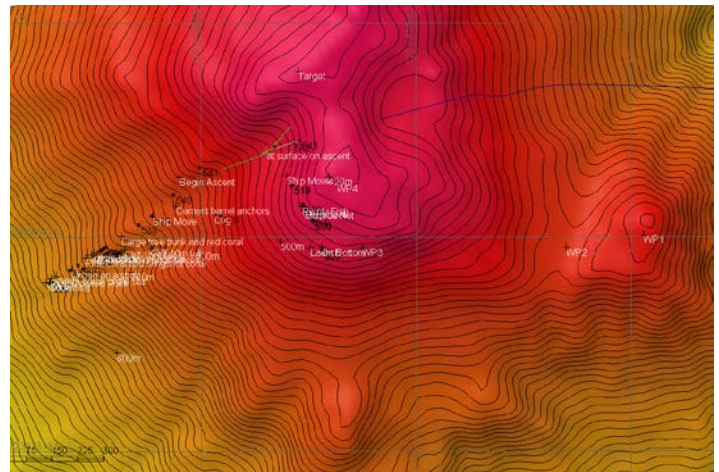
The crew launched the ROV for Dive 13 at 2° 50.651'N 125° 03.503'E around 0500. Initial target depth was 432m. This was our second dive at a shallow volcanic cone that rises to a depth of 500m. The ROV reached bottom on the south slope at a depth of 650m and moved upslope toward the area where we previously observed a wide variety of corals, crinoids, sponges, crabs, gastropods and fish. We then descended deeper to a depth of 800m and followed a ridge from the southwest back upslope. A much lower biomass and diversity of organisms, consisting mostly of corals with brittle stars and urchins, were visible in the deeper area. There appeared to be a significant amount iron staining around cracks in many of the rocks and what might have been some yellow bacterial mat. As we ascended back upslope biomass began to increase until we were again in an area of higher biological diversity.

**Overall Map of ROV Dive Area**



**Overview of "K"**

**Close-up Map of Main Dive Site**



**Hypack screen grab of dive Track**

**Representative Photos of the Dive**



20100712\_23h32m34s08\_ROVHD\_SHRIMP\_WEB  
Shallower areas upslope hosted greater diversity.



20100713\_04h49m36s12\_ROVHD\_TUBES\_BARNACLESA  
much lower biomass and diversity of organisms, consisting mostly of corals with brittle stars and urchins, were visible in the deeper area.

**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