


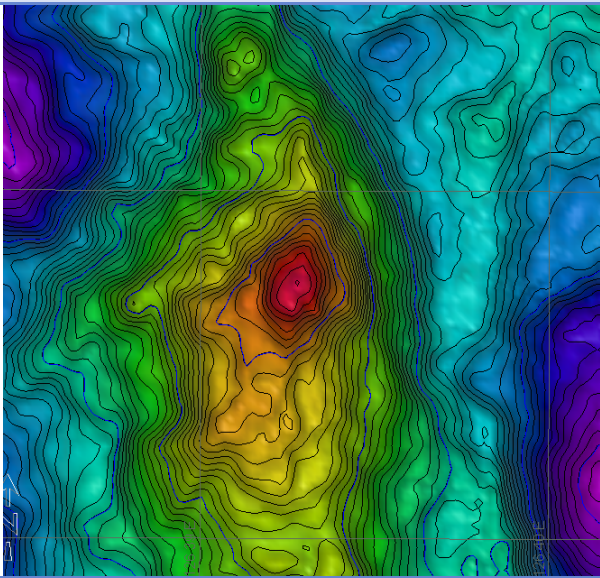
OKEANOS EXPLORER ROV DIVE FORM

Site Name	K1					
ROV Lead	Dave Lovalvo					
General Area Descriptor	430 km NNE of Bitung, Indonesia					
UTC Date & Time	Deployment	7/8/2010 12:17 AM				
	Recovery	7/8/2010 8:38 AM				
Bottom Time [HH:MM]	[07:00] (approx.)					
Landing Time & Location	UTC Time	02:11		Depth [m]	1630	
	Latitude	5	°	4.600	'	N
	Longitude	126	°	38.966	'	E
Off Bottom Time & Location	UTC Time	07:09		Depth [m]	1513	
	Latitude	5	°	4.768	'	N
	Longitude	126	°	39.272	'	E
ROV Dive Name	Cruise Season	EX1004		Leg	LEG02	
				Dive Number	ROV08	
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 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/Indonesia					

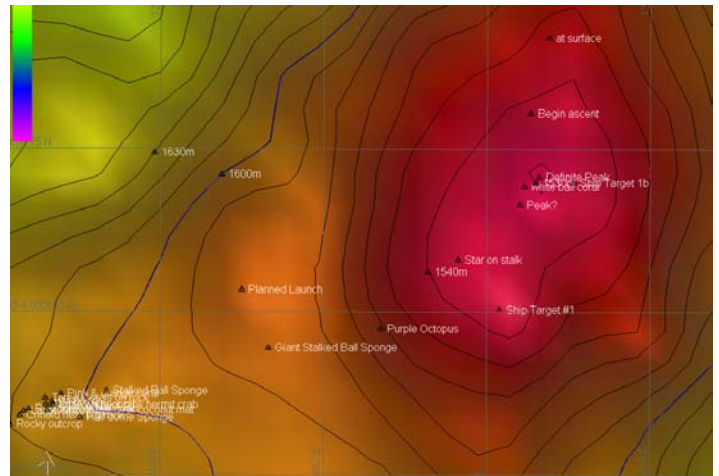
Purpose of the Dive: To explore [Click here to enter text.](#)

Description of the Dive:

The crew launched the ROV for dive 8 at 5° 04 678'N 126 ° 39.125'E around 0815. The target was a shallow seamount that rises to a depth of approximately 1550m. It lies along a shallow ridge at the southeast corner of the EX1 box. Between landing on bottom and ridge ascent, the topography varied between steep cliffs and relatively level terrain. It was dominated by older, andesitic rocks with a light dusting of pelagic sediment. Corals were abundant in the deeper part of our track but were less so as we approached the summit. Several types of sponges and crinoids became more prominent. Unlike previous dives where sponges were mostly hexactinellids, we saw several different types of sponges with interesting and unique morphologies. Some larger sponges had large, labyrinthian indentations that appeared to be oriented to align with the current. Another type of sponge looked like a furry coconut mat or animal hide. We did not identify it as a sponge until we harnessed every bit of our powerful high-definition cameras. As we got closer to the summit we came across another octopus that was purple with large glassy eyes. We did not find any hydrothermal vents on this dive but we did succeed in discovering what may turn out to be a number of new species.

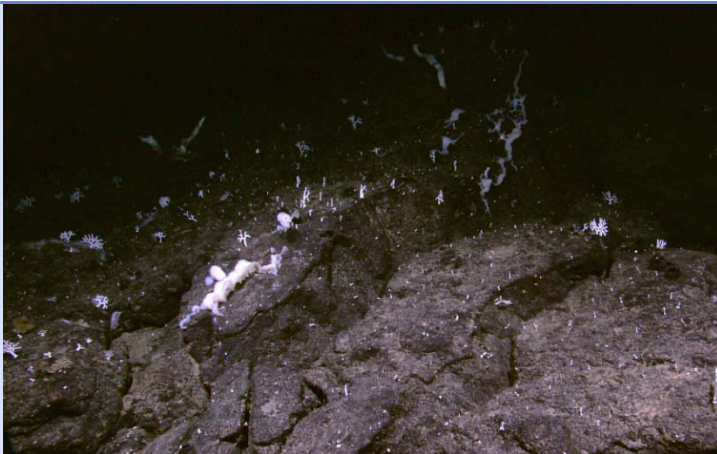


Overall Map of ROV Dive Area at K1



Close-up Map of Main Dive Site

Representative Photos of the Dive



Topography varied between steep cliffs and relatively level terrain. It was dominated by older, andesitic rocks with a light dusting of pelagic sediment. Corals were abundant in the deeper part of our track but were less so as we approached the summit.



Several types of sponges and crinoids became more prominent. We saw several different types of sponges with interesting and unique morphologies. Some larger sponges had large, labyrinthian indentations that appeared to be oriented to align with the current. Another type of sponge looked like a furry coconut mat or animal hide.

Please direct inquiries to:

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