OKEANOS EXPLORER ROV DIVE FORM

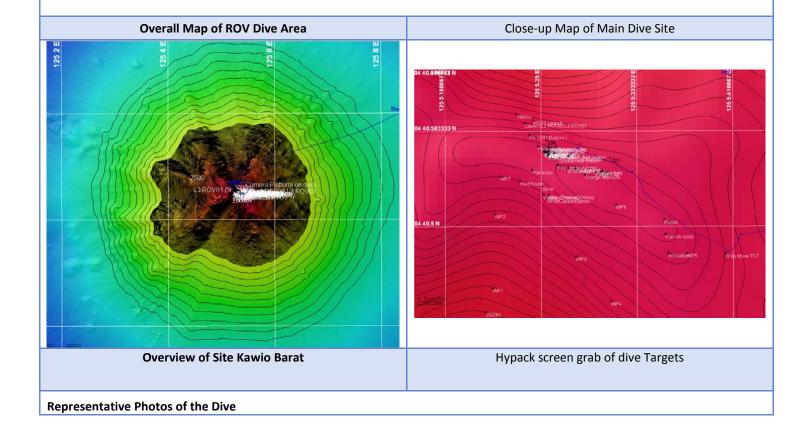
Site Name	Kawio Barat							Byll			
ROV Lead	Dave Lovalvo							1	1		
General Area Descriptor	365km N of Bitung, Indonesia					Okeanos Explorer					
UTC Date & Time	Deployment	7/29/	2010 12:33 AM							5	
	Recovery	7/29/2010			010 8:35 AM						
Bottom Time [HH:MM]	04:41						0200EU US Dept of Delt 510 NOSA 113103/02/N 1251	IO Exir Arias reps Technologies I State Geographer U.S. Navy NoA, GCBC 12:17:59; E. etec. 9705		Coogle:	
Landing Time & Location	UTC Time		02:24			Depth [m]			1925		
	Latitude	4		ō		40.579849	1		(N	
	Longitude	125		ō	0	05.240244			′	Е	
Off Bottom Time & Location	UTC Time		07:05			Depth [ı	m]	1850)	
	Latitude	4		ō		5		N			
	Longitude	125		ō		_	É				
ROV Dive Name	Cruise Season		Leg			Dive			Number		
	EX1004		LEG03			ROV07 (20)					
Equipment Deployed	ROV:		Little Hercules								
	Camera Platfom:		Phoenix Camera Platform								
ROV Measurements	CTD		□ Depth □ USBL Position □ Depth □			✓ Altitude✓ Heading					
	Scanning Sonar Pitch		Roll			HD Camera					
	Low Res Cam 1		Low Res Cam 2			L A					
Equipment Malfunctions	None										
Special Notes	Click here to enter text.										
Scientists Involved (please provide name / location / affiliation / email)	Santiago Herrera (on-board Science Lead), EX, WHOI, sherrera@whoi.edu Tim Shank (on-shore Science Lead), ECC Jakarta, WHOI, tshank@whoi.edu Rainer Troa, EX, renertroa@gmail.com Eleanor Bors, ECC Seattle, WHOI, ekbors@gmail.com Catriona Munro, WHOI, WHOI, c.munro@ucl.ac.uk Elizabeth Sibert, WHOI, WHOI, esibert@ucsd.edu Dave Butterfield, ECC Seattle, NOAA, David.A.Butterfield@noaa.gov> Ed Baker, ECC Seattle, NOAA, Edward.Baker@noaa.gov Sam Zelin, ECC Seattle, UMass Amherst Yusuf Surachman Djajadihardja, ECC Seattle James Holden, UMass Amherst, UMass Amherst, jholden@microbio.umass.edu Jennifer Lin, UMass Amherst, UMass Amherst Verena Tunnicliffe, U. Victoria, U. Victoria verenat@uvic.ca										

Marjolaine Matabos, U. Victoria, U. Victoria

Purpose of the Dive: To explore and characterize more extensively the venting characteristics and fauna of the Kawio Barat vent area and deeper downslope.

Description of the Dive:

This dive at Kawio Barat started at the same launch point as EX1004_Leg2_ROV02 from which we came down on top of the vents. Our first waypoint will be the sulfur & shrimp wall vent site. This was an effort to relocate and characterize more extensively the venting characteristics and fauna of this area. We observed white bacterial mats on rocks. The area below the vents presented an accumulation of black, yellow and green sulfur flows. Diffuse venting was also observed adjacent to the main smoker vents. Dense barnacle colonization was observed on chimneys and rocks atop of the summit crest and sulfur vents, likely fed by diffuse venting. Volcanoclastic sediments were abundant on the lower portions of the Kawio Barat venting area. The lithology was dominated by volcanic rock with sulphide and manganese content. Volcanic sediments with well-oxidized surfaces were observed as we moved east. As we kept progressing laterally the slope became less sedimented and yellow patches of light and fluffy orange/yellow "stuff" were observed. Possibly iron-rich microbial mats and/or native sulfur. Clam fields were also found in this area, most of which appeared to be dead.





20100729_04h03m54s14_ROVHD_LANDING_02
The area below the vents presented an accumulation of black, yellow and green sulfur flows.



20100729_06h45m00s10_ROVHD_FLYOVER_ROCKFIELD Volcanoclastic sediments were abundant elsewhere. The lithology was dominated by volcanic rock with sulphide and manganese content.

Please direct inquiries to:

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