


OKEANOS EXPLORER ROV DIVE FORM

Site Name	Nuang Traverse aka Site N					
ROV Lead	Dave Lovalvo					
General Area Descriptor	260 km North of Bitung, Indonesia					
UTC Date & Time	Deployment	7/3/2010 12:00 AM				
	Recovery	7/3/2010 8:40 AM				
Bottom Time [HH:MM]	[07:19]					
Landing Time & Location	UTC Time	00:55			Depth [m]	600
	Latitude	3	°	46.706	'	N
	Longitude	125	°	22.177	'	E
Off Bottom Time & Location	UTC Time	08:14			Depth [m]	611
	Latitude	3	°	46.926	'	N
	Longitude	125	°	22.491	'	E
ROV Dive Name	Cruise Season	Leg		Dive Number		
	EX1004	LEG02		ROV05		
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/WHOI Jill McDermott (student)/WHOI/WHOI Catriona Munro (student)/WHOI/WHOI Elizabeth Silbert (student)/WHOI/WHOI Kristine Konsinski (student)/Seattle ECC/UH Ellie Bors (student)/Seattle ECC/WHOI Jim Holden/Jakarta ECC/UMASS					

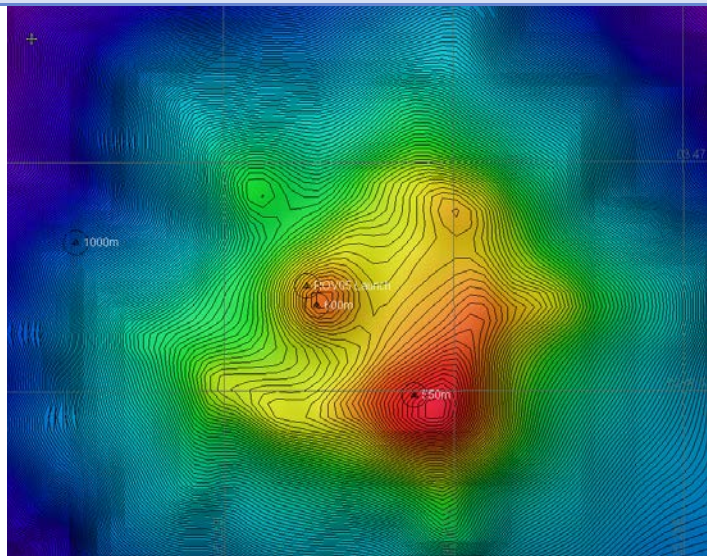
John Sherrin (student) – EX Control Room/U of Victoria
Xerandy – EX Control Room/Indonesia

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

Description of the Dive:

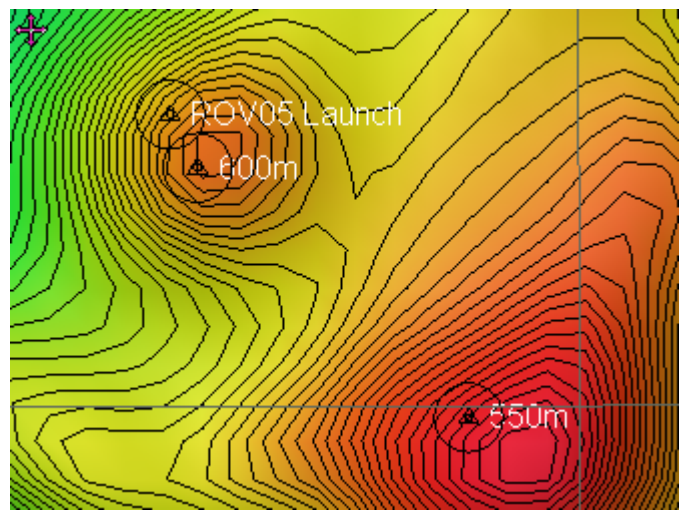
The launch target for EX-1004-Leg II_ROV005 was 3° 46.73”N 125° 22.18’E. The target is nearby the site termed ‘Naung’ in the 2004 McConachy paper. Multibeam bathymetry revealed a shallow seamount with a central peak and several surrounding lower peaks. CTD casts the previous night indicated hydrothermal activity. The ROV landed downslope of the central peak but was unable to make forward progress in the desired direction due to strong NE to SW current. ROV Operations Coordinator Dave Lovalvo informed the science party of the need to change tactics. He directed the ROV navigator to have the ship ‘tow’ the ROV to a new location up-current to begin the dive. Currents were greatly reduced in the new area and the ROV was able to make headway. The soft sedimented bottom was covered with many ripples and there were often large scour marks around the many rocky outcrops we encountered. The biota of Naung was similar to what we saw in our previous dive, however, this seamount contained a much greater abundance and diversity of organisms. Though the ROV found no evidence of hydrothermal activity, it did capture stunning high-resolution imagery of the various corals, sponges, shrimp, sea cucumbers, and other animals.

Overall Map of ROV Dive Area



Overview of Nuang Seamount

Close-up Map of Main Dive Site

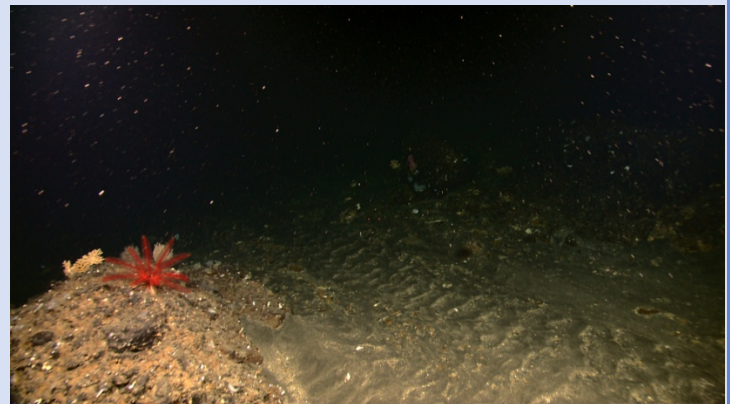


Closeup of Launch Location

Representative Photos of the Dive



20100703_04h05m30sI9_ROVHD_BOTTOM_CORALS
Nuang hosted a soft sedimented bottom with many rocky outcrops, often hosting large scour marks. The biota largely consisted of assemblages of solitary and diverse organisms on rocky outcrops.



20100703_04h37m04sII_ROVHD_BOTTOM_CORAL_FISH
The soft sedimented bottom was covered with many ripples.

Please direct inquiries to:

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