


# OKEANOS EXPLORER ROV DIVE FORM

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

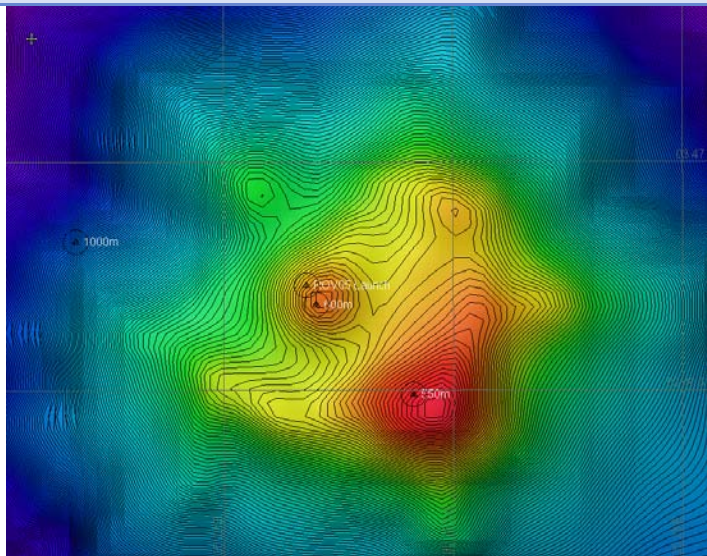
John Sherrin (student) – EX Control Room/U of Victoria  
 Xerandy – EX Control Room/Indonesia

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

**Description of the Dive:**

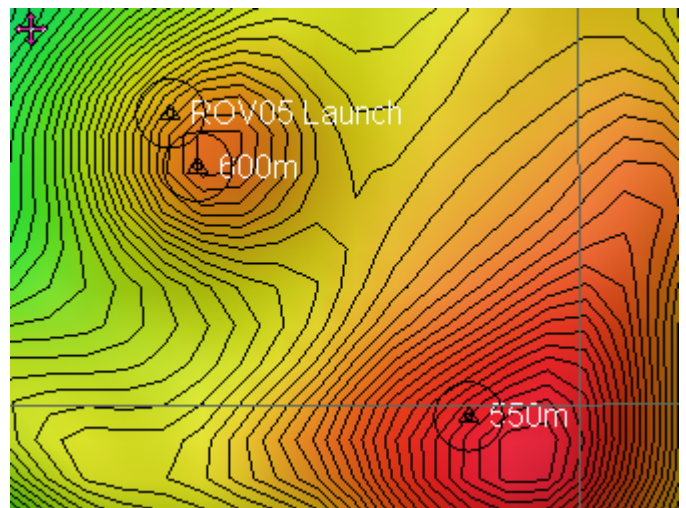
The launch target for EX-1004-Leg II\_ROV005 was 3° 46.73”N 125° 22.18’E. The target is nearby the site termed ‘Naung’ in the 2004 McConachy paper. Multibeam bathymetry revealed a shallow seamount with a central peak and several surrounding lower peaks. CTD casts the previous night indicated hydrothermal 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 Naung Seamount**

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



**Closeup of Launch Location**

**Representative Photos of the Dive**



20100703\_04h05m30sI9\_ROVHD\_BOTTOM\_CORALS  
 Naung 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:**

NOAA Office of Ocean Exploration & Research  
 1315 East-West Highway (SSMC3 10<sup>th</sup> Floor)

Silver Spring, MD 20910  
(301) 734-1014