Okeanos Explorer ROV Dive Form

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| Site Name | Nuang Traverse aka Site N | | | | | | | globe.png | | | | | | |
| 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 | | | º | 46.706 | | | | | | ‘ | | N |
|  | Longitude | 125 | | | º | 22.177 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 08:14 | | | | | | | Depth [m] | | 611 | | | |
|  | Latitude | 3 | | | º | 46.926 | | | | | | | ‘ | N |
|  | Longitude | 125 | | | º | 22.491 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG02 | | | | | | ROV05 | | | | |
| Equipment Deployed | ROV: | | | Little Hercules | | | | | | | | | | |
|  | Camera Platfom: | | | Phoenix Camera Platform | | | | | | | | | | |
| ROV Measurements | CTD | | | Depth | | | | | | Altitude | | | | |
|  | Scanning Sonar | | | USBL Position | | | | | | Heading | | | | |
|  | Pitch | | | Roll | | | | | | HD Camera | | | | |
|  | Low Res Cam 1 | | | Low Res Cam 2 | | | | | |  | | | | |
| Equipment Malfunctions | Click here to enter text. | | | | | | | | | | | | | |
| Special Notes | Click here to enter text. | | | | | | | | | | | | | |
| Scientists Involved  *(please provide name / location / affiliation / email)* | Click here to enter text. | | | | | | | | | | | | | |
| 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 3º 46.73’’N 125º 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 | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
|  | | | | | | |  | | | | | | | |
| Overview of Nuang Seamount | | | | | | | Closeup of Launch Location | | | | | | | |
| Representative Photos of the Dive | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | | | | |
| 20100703\_04h05m30s19\_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\_04h37m04s11\_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 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |