Okeanos Explorer ROV Dive Form

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| Site Name | Black Hole | | | | | | | globe.png | | | | | | |
| ROV Lead | Dave Lovalvo | | | | | | |  | | | | | | |
| General Area Descriptor | 450 km NNE of Bitung, Indonesia | | | | | | |  | | | | | | |
| UTC Date & Time | Deployment | | 7/6/2010 2:10 AM | | | | |  | | | | | | |
|  | Recovery | | 7/6/2010 8:46 AM | | | | |  | | | | | | |
| Bottom Time  [HH:MM] | [04:11] | | | | | | |  | | | | | | |
| Landing Time & Location | UTC Time | 03:25 | | | | | | | Depth [m] | | 1170 | | | |
|  | Latitude | 5 | | | º | 14.943 | | | | | | ‘ | | N |
|  | Longitude | 126 | | | º | 39.373 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 07:36 | | | | | | | Depth [m] | | 1030 | | | |
|  | Latitude | 5 | | | º | 14.747 | | | | | | | ‘ | N |
|  | Longitude | 126 | | | º | 39.371 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG02 | | | | | | ROV07 | | | | |
| 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 | After recovering the ROV, a small amount of moisture was discovered in the HD camera housing in the camera platform. | | | | | | | | | | | | | |
| 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 crew launched the ROV for dive 7 at 5º 14.964'N 126º 39.378’E around 0815. The dive began 150m below the summit on the eastern slope of a steep ridge. The top of the ridge was at a depth of approximately 1050m. The pilots traversed the ROV up a steep face of rock that was lightly covered in fine-grained pelagic sediment and contained several different species of corals, sponges and crinoids. The Team captured excellent close-ups of what may turn out to be a number of completely new species for scientists. Biomass appeared to increase as we approached the summit ridge and was mostly dominated by sessile species. We also happened to spot an octopus hiding beneath a pile of rocks. As the sub traveled in a southerly direction down the ridge, we found an area with relatively few organisms that appeared to have been recently disturbed. We did not find any evidence of hydrothermal or volcanic activity at this site. There were no issues with the lateral thruster. However, after recovering the ROV, a small amount of moisture was discovered in the HD camera housing in the camera platform. | | | | | | | | | | | | | | |
| Overall Map of ROV Dive Area | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
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| Representative Photos of the Dive | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | | | | |
| 20100706\_04h40m08s20\_ROVHD\_ROCKS\_CORAL  The pilots traversed the ROV up a steep face of rock that was lightly covered in fine-grained pelagic sediment and contained several different species of corals, sponges and crinoids. | | | | | | | 20100706\_05h29m07s11\_ROVHD\_CORAL\_ZOOM  Biomass appeared to increase as we approached the summit ridge and was mostly dominated by sessile species | | | | | | | |
| Please direct inquiries to: | | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |