Okeanos Explorer ROV Dive Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site Name | Paradise Valley | | | | | | | globe.png | | | | | | |
| ROV Lead | Dave Lovalvo | | | | | | |  | | | | | | |
| General Area Descriptor | 490 km NNE of Bitung, Indonesia | | | | | | |  | | | | | | |
| UTC Date & Time | Deployment | | 7/5/2010 12:28 AM | | | | |  | | | | | | |
|  | Recovery | | 7/5/2010 9:38 AM | | | | |  | | | | | | |
| Bottom Time  [HH:MM] | [03:20] | | | | | | |  | | | | | | |
| Landing Time & Location | UTC Time | 03:13 | | | | | | | Depth [m] | | 2700 | | | |
|  | Latitude | 5 | | | º | 22.606 | | | | | | ‘ | | N |
|  | Longitude | 126 | | | º | 46.017 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 06:33 | | | | | | | Depth [m] | | 2640 | | | |
|  | Latitude | 5 | | | º | 22.478 | | | | | | | ‘ | N |
|  | Longitude | 126 | | | º | 45.943 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG02 | | | | | | ROV06 | | | | |
| 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 | During the descent a fuse blew on the lateral thruster. Movement during the dive was hampered but by no means compromised operations. | | | | | | | | | | | | | |
| 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: | | | | | | | | | | | | | | |
| We completed our first ROV dive in the northeast portion of the INDEX-SATAL 2010 area of operations. Our launch location was 5º 22.638'N 126º 46.016’E. During the descent a fuse blew on a lateral thruster. Movement during the dive was hampered but it by no means compromised operations. The ROV reached the seafloor at 2725m and proceeded to climb the slope of a ridge-like feature that peaked at approximately 2600m. The seafloor was covered mostly with fine-grained pelagic sediment. The bottom ranged between mostly sediment with sparse rocky outcrops to steep slopes of broken pillows and talus. Epifauna were generally sparse but we imaged a number of hexactinellid sponges, sea whips, sea stars, some fish, and a variety of corals and sea lillies. We also encountered what appeared to be a very long sea cucumber that was making some interesting tracks in the sediment in search of food. In comparison to previous dives, we noticed fewer crabs and shrimp, but many more sponges. The top of the summit ridge did not yield much different from what we saw during our ridge ascent. The crew replaced the fuse following the dive. No one is quite sure why it blew. Lovalvo believes it was likely due to some of the shock experience during launch in rough seas.  Stalked Sponge from the July 5 dive | | | | | | | | | | | | | | |
| Overall Map of ROV Dive Area | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
|  | | | | | | |  | | | | | | | |
| Paradise Valley | | | | | | | Hypack Targets | | | | | | | |
| Representative Photos of the Dive | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | | | | |
| 20100705\_04h34m13s19\_ROVHD\_CORAL  The seafloor was covered mostly with fine-grained pelagic sediment. The bottom ranged between mostly sediment with sparse rocky outcrops to steep slopes of broken pillows and talus. | | | | | | | 20100705\_04h56m15s24\_ROVHD\_LONG\_CUCUMBER  Epifauna were generally sparse but we imaged a number of hexactinellid sponges, sea whips, sea stars, some fish, and a variety of corals and sea lillies. We noticed many more sponges compared to previous dives. | | | | | | | |
| Please direct inquiries to: | | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |