Okeanos Explorer ROV Dive Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site Name | South Mount | | | | | | | globe.png | | | | | | |
| ROV Lead | Dave Lavalvo | | | | | | |  | | | | | | |
| General Area Descriptor | 150km N of Bitung, Indonesia | | | | | | |  | | | | | | |
| UTC Date & Time | Deployment | | 7/12/2010 9:00 PM | | | | |  | | | | | | |
|  | Recovery | | 7/13/2010 12:00 AM | | | | |  | | | | | | |
| Bottom Time  [HH:MM] | Click here to enter text. | | | | | | |  | | | | | | |
| Landing Time & Location | UTC Time | 21:31 | | | | | | | Depth [m] | | 466 | | | |
|  | Latitude | 2 | | | º | 50.65 | | | | | | ‘ | | N |
|  | Longitude | 125 | | | º | 3.25 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 05:53 | | | | | | | Depth [m] | | 576 | | | |
|  | Latitude | 2 | | | º | 50.76 | | | | | | | ‘ | N |
|  | Longitude | 125 | | | º | 3.30 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG02 | | | | | | ROV13 | | | | |
| 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 crew launched the ROV for Dive 13 at 2º 50.651'N 125º 03.503’E around 0500. Initial target depth was 432m. This was our second dive at a shallow volcanic cone that rises to a depth of 500m. The ROV reached bottom on the south slope at a depth of 650m and moved upslope toward the area where we previously observed a wide variety of corals, crinoids, sponges, crabs, gastropods and fish. We then descended deeper to a depth of 800m and followed a ridge from the southwest back upslope. A much lower biomass and diversity of organisms, consisting mostly of corals with brittle stars and urchins, were visible in the deeper area. There appeared to be a significant amount iron staining around cracks in many of the rocks and what might have been some yellow bacterial mat. As we ascended back upslope biomass began to increase until we were again in an area of higher biological diversity. | | | | | | | | | | | | | | |
| Overall Map of ROV Dive Area | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
|  | | | | | | |  | | | | | | | |
| Overview of “SouthMount” | | | | | | | Hypack screen grab of dive Track | | | | | | | |
| Representative Photos of the Dive | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | | | | |
| 20100712\_23h32m34s08\_ROVHD\_SHRIMP\_WEB  Shallower areas upslope hosted greater diversity. | | | | | | | 20100713\_04h49m36s12\_ROVHD\_TUBES\_BARNACLES  A much lower biomass and diversity of organisms, consisting mostly of corals with brittle stars and urchins, were visible in the deeper area. | | | | | | | |
| Please direct inquiries to: | | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |