Okeanos Explorer ROV Dive Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site Name | Site T aka Mimpi | | | | | | | globe.png | | | | | | |
| ROV Lead | Dave Lovalvo | | | | | | |  | | | | | | |
| General Area Descriptor | 83km N of Bitung, Indonesia | | | | | | |  | | | | | | |
| UTC Date & Time | Deployment | | 7/24/2010 12:20 AM | | | | |  | | | | | | |
|  | Recovery | | 7/24/2010 9:03 AM | | | | |  | | | | | | |
| Bottom Time  [HH:MM] | 06:46 | | | | | | |  | | | | | | |
| Landing Time & Location | UTC Time | 01:10 | | | | | | | Depth [m] | | 722 | | | |
|  | Latitude | 2 | | | º | 08.2017 | | | | | | ‘ | | N |
|  | Longitude | 124 | | | º | 54.11596 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 07:56 | | | | | | | Depth [m] | | 964 | | | |
|  | Latitude | 2 | | | º | 8.20258 | | | | | | | ‘ | N |
|  | Longitude | 124 | | | º | 54.4281 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG03 | | | | | | ROV02 | | | | |
| 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 | None | | | | | | | | | | | | | |
| 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: | | | | | | | | | | | | | | |
| Dive EX1004\_Leg3\_ROV15, at site T. We started the dive at the southern peak of the main cone of the volcano, and then made our way to the northern peak of the main cone. Seafloor was highly covered in dark-yellow sediment. Faunal abundances were very low. Primnoid corals and black corals were dominant. As we moved over the summits of the peaks the area of exposed rock increased and so did the abundance. The region in between peaks was sandy and dominant fauna were stalked sponges with zoanthids. Abundant staining on rocks was observed, resembling iron oxides. Such staining was localized in what seemed like cracks in the rock. Small tubes were observed in one of the stained cracks. Possibly tubeworms, but no evidence suggested that were still alive. Shimmering in the water was observed early in the dive but source could not be identified. From the northern cone we moved SE to a secondary cone at around 870m. As we progressed down slope towards that direction the area of exposed rock increased, the current was stronger and faunal abundances increased. This trend remained as we progressed eastward down slope over a knoll. Octocorals and black corals dominated the benthic landscape. A scleractinian coral was observed surrounded by a big colony of hydroids. A new morph of Paragorgia, a Sibogagorgia?, and a purple comatulid crinoid. In general the diversity of site T was equivalent to the one found in site K, however the abundances here were in general significantly lower. | | | | | | | | | | | | | | |
| Overall Map of ROV Dive Area | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
|  | | | | | | |  | | | | | | | |
| Overview of Site Mimpi | | | | | | | Hypack screen grab of dive Targets | | | | | | | |
| Representative Photos of the Dive | | | | | | | | | | | | | | |
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| Click here to enter text. | | | | | | | Click here to enter text. | | | | | | | |
| Please direct inquiries to: | | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |