Okeanos Explorer ROV Dive Form

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site Name | ? | | | | | | | globe.png | | | | | | |
| ROV Lead | Dave Lovalvo | | | | | | |  | | | | | | |
| General Area Descriptor | 400 km North of Bitung, Indonesia | | | | | | |  | | | | | | |
| UTC Date & Time | Deployment | | 6/30/2010 12:22 AM | | | | |  | | | | | | |
|  | Recovery | | 6/30/2010 8:59 AM | | | | |  | | | | | | |
| Bottom Time  [HH:MM] | [05:32] | | | | | | |  | | | | | | |
| Landing Time & Location | UTC Time | 01:47 | | | | | | | Depth [m] | | Click here to enter text. | | | |
|  | Latitude | 4 | | | º | 40.559 | | | | | | ‘ | | N |
|  | Longitude | 125 | | | º | 5.266 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 07:19 | | | | | | | Depth [m] | | Click here to enter text. | | | |
|  | Latitude | 4 | | | º | 40.489 | | | | | | | ‘ | N |
|  | Longitude | 125 | | | º | 5.159 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG02 | | | | | | 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 | Click here to enter text. | | | | | | | | | | | | | |
| Special Notes | Click here to enter text. | | | | | | | | | | | | | |
| Scientists Involved  *(please provide name / location / affiliation / email)* | Tim Shank  Santiago Herrera  Jill McDermott  Catriona Munro  Elizabeth Sibert | | | | | | | | | | | | | |
| Purpose of the Dive: To explore Click here to enter text. | | | | | | | | | | | | | | |
| Description of the Dive: | | | | | | | | | | | | | | |
| The initial dive target was 04º 40.10' N, 125 º 15.25'E. The target is nearby the site termed ‘R’ in the 2004 McConachy paper. The only prior information available on this site was single beam echosounder data and one CTD cast. The ROV descended to a peak at a depth of about 900m on a large seamount with a 10km long ridge. We transited along a saddle to another peak and explored the area surrounding it. The seafloor on this dive was dominated by talus. In a few places on steep slopes was truncated with pillow flows. In one area there was columnar jointing. No volcaniclastic deposits were seen. There was one minor area of hydrothermal ochre on the summit ridge. We saw a very interesting hermit crab that had a symmetrical soft coral for a shell. The crab was approximately 15cm in diameter and had asymmetrical furry chelae that appeared to be covered with encrusting sponges. We saw another of these crab and coral combinations later in the dive. The ROV imaged several species of coral, shrimp, hydroids, an eel-like fish, and a very unique looking squid that at first glance appeared to have a siphonophore attached to it. It was difficult to identify what we were looking at but the squid was certainly a breathtaking example of the diversity of unique life that lies deep beneath the ocean surface. | | | | | | | | | | | | | | |
| Overall Map of ROV Dive Area | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
|  | | | | | | |  | | | | | | | |
| Fledermaus view of overall dive site | | | | | | | Hypack screen grab of dive Track | | | | | | | |
| Representative Photos of the Dive | | | | | | | | | | | | | | |
|  | | | | | | |  | | | | | | | |
| 20100701\_05h31m27s00\_ROVHD\_SQUID  The seafloor on this dive was dominated by talus, shown in this image. This incredible squid of the family Chiroteuthidae was imaged during the dive, and is perhaps the best image of a squid in this family with such ornamentation to-date. | | | | | | | 20100701\_03h58m54s27\_ROVHD\_CRAB\_MUPPET  Several interesting critters were imaged during the dive, including two hermit crabs with asymmetrical chelae that appeared to be covered with encrusting sponges, and each hosting symbioses with a zoanthid colony on its back. Several species of coral, shrimp, hydroids, an eel-like fish, and squid were also imaged. | | | | | | | |
| Please direct inquiries to: | | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |