Okeanos Explorer ROV Dive Form

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| Site Name | K1 | | | | | | | globe.png | | | | | | |
| ROV Lead | Dave Lovalvo | | | | | | |  | | | | | | |
| General Area Descriptor | 430 km NNE of Bitung, Indonesia | | | | | | |  | | | | | | |
| UTC Date & Time | Deployment | | 7/8/2010 12:17 AM | | | | |  | | | | | | |
|  | Recovery | | 7/8/2010 8:38 AM | | | | |  | | | | | | |
| Bottom Time  [HH:MM] | [04:58] | | | | | | |  | | | | | | |
| Landing Time & Location | UTC Time | 02:11 | | | | | | | Depth [m] | | 1630 | | | |
|  | Latitude | 5 | | | º | 4.600 | | | | | | ‘ | | N |
|  | Longitude | 126 | | | º | 38.966 | | | | | | ‘ | | E |
| Off Bottom Time & Location | UTC Time | 07:09 | | | | | | | Depth [m] | | 1513 | | | |
|  | Latitude | 5 | | | º | 4.768 | | | | | | | ‘ | N |
|  | Longitude | 126 | | | º | 39.272 | | | | | | | ‘ | E |
| ROV Dive Name | Cruise Season | | | Leg | | | | | | Dive Number | | | | |
|  | EX1004 | | | LEG02 | | | | | | ROV08 | | | | |
| 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 8 at 5º 04 678'N 126 º 39.125'E around 0815. The target was a shallow seamount that rises to a depth of approximately 1550m. It lies along a shallow ridge at the southeast corner of the EX1 box. Between landing on bottom and ridge ascent, the topography varied between steep cliffs and relatively level terrain. It was dominated by older, andesitic rocks with a light dusting of pelagic sediment. Corals were abundant in the deeper part of our track but were less so as we approached the summit. Several types of sponges and crinoids became more prominent. Unlike previous dives where sponges were mostly hexactinellids, we saw several different types of sponges with interesting and unique morphologies. Some larger sponges had large, labyrinthian indentations that appeared to be oriented to align with the current. Another type of sponge looked like a furry coconut mat or animal hide. We did not identify it as a sponge until we harnessed every bit of our powerful high-definition cameras. As we got closer to the summit we came across another octopus that was purple with large glassy eyes. We did not find any hydrothermal vents on this dive but we did succeed in discovering what may turn out to be a number of new species. | | | | | | | | | | | | | | |
| Overall Map of ROV Dive Area | | | | | | | Close-up Map of Main Dive Site | | | | | | | |
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| Representative Photos of the Dive | | | | | | | | | | | | | | |
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| Please direct inquiries to: | | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10th Floor)  Silver Spring, MD 20910  (301) 734-1014 | | | | | | | | | | | | |