


OKEANOS EXPLORER ROV DIVE FORM

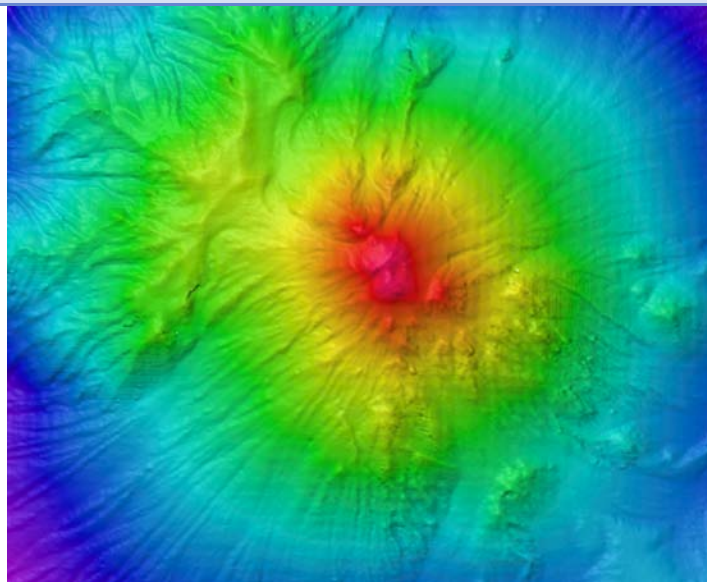
| | | | | | | |
|---|--|---|---|---|-------|--|
| Site Name | Site K | | |  | | |
| ROV Lead | Dave Lavalvo | | | | | |
| General Area Descriptor | 160km N of Bitung, Indonesia | | | | | |
| UTC Date & Time | Deployment | 7/12/2010 9:01 PM | | | | |
| | Recovery | 7/13/2010 6:28 AM | | | | |
| Bottom Time [HH:MM] | Click here to enter text. | | | | | |
| Landing Time & Location | UTC Time | 21:31 | | Depth [m] | 466 | |
| | Latitude | 2 | ° | 50.650 | N | |
| | Longitude | 125 | ° | 03.520 | E | |
| Off Bottom Time & Location | UTC Time | 05:53 | | Depth [m] | 576 | |
| | Latitude | 2 | ° | 50.760 | N | |
| | Longitude | 125 | ° | 03.300 | E | |
| ROV Dive Name | Cruise Season | EX1004 | | Leg | LEG02 | |
| | | | | Dive Number | ROV13 | |
| Equipment Deployed | ROV: | Little Hercules | | | | |
| | Camera Platform: | Phoenix Camera Platform | | | | |
| ROV Measurements | <input checked="" type="checkbox"/> CTD | <input checked="" type="checkbox"/> Depth | | <input checked="" type="checkbox"/> Altitude | | |
| | <input checked="" type="checkbox"/> Scanning Sonar | <input checked="" type="checkbox"/> USBL Position | | <input checked="" type="checkbox"/> Heading | | |
| | <input checked="" type="checkbox"/> Pitch | <input checked="" type="checkbox"/> Roll | | <input checked="" type="checkbox"/> HD Camera | | |
| | <input checked="" type="checkbox"/> Low Res Cam 1 | <input checked="" type="checkbox"/> Low Res Cam 2 | | | | |
| Equipment Malfunctions | Click here to enter text. | | | | | |
| Special Notes | Click here to enter text. | | | | | |
| Scientists Involved <i>(please provide name / location / affiliation / email)</i> | David Butterfield/Seattle ECC/PMEL Verena Tunnicliffe/Seattle ECC/UVIC Tim Shank/WHOI/WHOI Santiago Herrera (student)/WHOI/WOI Catriona Munro (student)/WHOI/WOI Elizabeth Silbert (student)/WHOI/WOI Ellie Bors (student)/Seattle ECC/WHOI Jim Holden/Jakarta ECC/UMASS Xerandy – EX Control Room/Indonesia John Sherrin (student) – EX Control Room/U of Victoria | | | | | |

Purpose of the Dive: To explore [Click here to enter text.](#)

Description of the Dive:

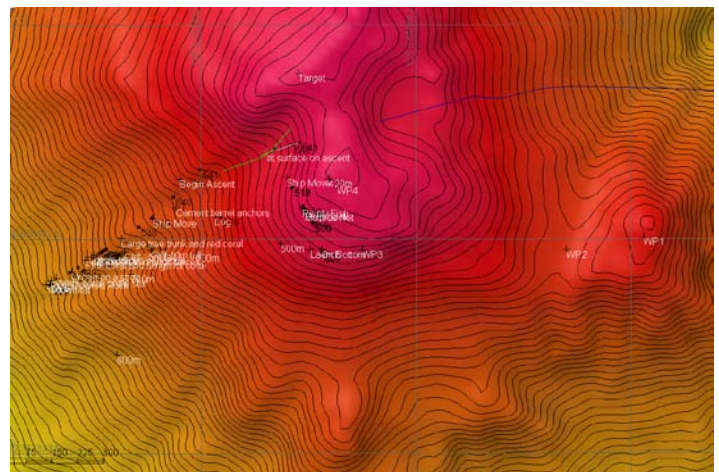
The crew launched the ROV for Dive 13 at 2° 50.651'N 125° 03.503'E around 0500. Initial target depth was 432m. This was our second dive at a shallow volcanic cone that rises to a depth of 500m. The ROV reached bottom on the south slope at a depth of 650m and moved upslope toward the area where we previously 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



Overview of "K"

Close-up Map of Main Dive Site



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
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:

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