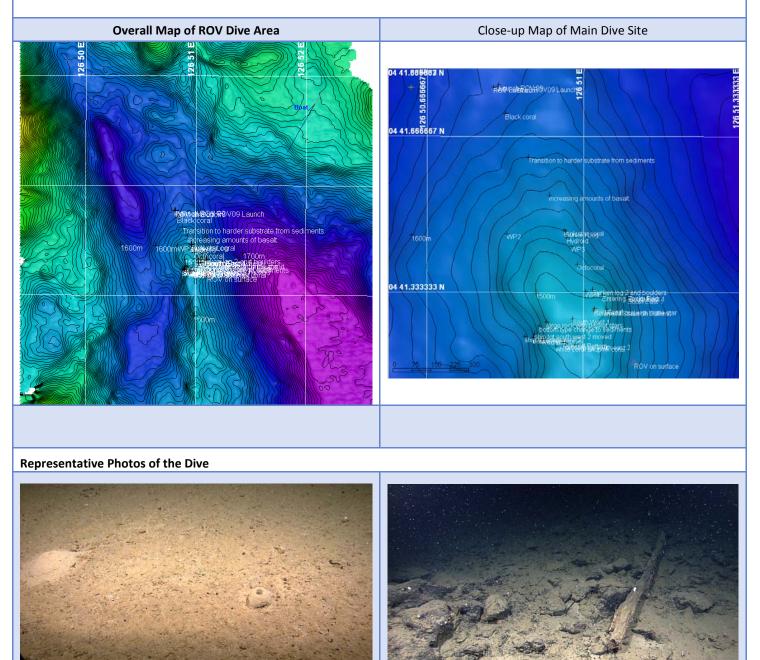
OKEANOS EXPLORER ROV DIVE FORM

| Site Name | BJIV_1 | | | | | | | | | |
|---|---|-----|------------------|-------------------------|----------|----------------|--|-------------|----------------------------------|--|
| ROV Lead | Dave Lovalvo | | | | | A | Section of the sectio | | | |
| General Area Descriptor | 403 km N of Bitung, Indonesia | | | | | | | ano lore | | |
| Deployment 8/1, | | | '1/2010 12:17 AM | | | | C WESS | | R | |
| ore bate & time | Recovery 8/1/2008 8:44 AM | | | | 44 AM | | | | | |
| Bottom Time [HH:MM] | 05:55 | | | | | | Choing Partners Choing Partners (14) US device of Main Cooperation Control Control (15) (2017) Soft even 000 | | Google Eye at: 4005.05 mi . Q | |
| | UTC Time 01:35 | | | | | Depth [m] 1613 | | | | |
| Landing Time & Location | Latitude | 4 | | ⁰ | 41.77184 | | (| | N | |
| | Longitude | 126 | | ⁰ | Į | 50.80786 | | (| E | |
| | UTC Time | | 07 | 07:30 | | Depth [m] | | 1513 | | |
| Off Bottom Time & Location | Latitude | 4 | | ₽ | 41.22562 | | | 1 | N | |
| | Longitude | 126 | | ₽ | | 50.9575 | | | E | |
| ROV Dive Name | Cruise Season | | | Leg | | | Dive Number | | | |
| | EX1004 | | | LEG03 | | | ROV09 (22) | | | |
| Equipment Deployed | ROV: | | | Little Hercules | | | | | | |
| | Camera Platfom: | | | Phoenix Camera Platform | | | | | | |
| ROV Measurements | | | Depth | | | Altitude | | | | |
| | Scanning Sonar | | USBL Position | | | Heading | | | | |
| | Pitch | | | | | | 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) | Santiago Herrera (on-board Science Lead), EX, WHOI, sherrera@whoi.edu Tim Shank (on-shore Science Lead), ECC Jakarta, WHOI, <u>tshank@whoi.edu</u> Rainer Troa, EX, renertroa@gmail.com Noorsalam, ECC Jakarta Eleanor Bors, ECC Seattle, WHOI, ekbors@gmail.com Catriona Munro, WHOI, WHOI, c.munro@ucl.ac.uk Elizabeth Sibert , WHOI, WHOI, <u>esibert@ucsd.edu</u> Sam Zelin, ECC Seattle, UMass Amherst Ed Baker, ECC Seattle, NOAA, <u>Edward.Baker@noaa.gov</u> Yusuf Surachman Djajadihardja, ECC Seattle Tryono, ECC Seattle Jonathan Rose, U. Victoria, U. Victoria, jonmrose@uvic.ca Rachel Brown, U. Victoria, U. Victoria | | | | | | | | | |

Purpose of the Dive: Mapping results from the BJIV were provided of the Talaud Ridge area. There are several features of interest in this region, but in the rift valley, there appears to be a rift that extends from the west margin of the western wall to the northeast and out into the valley. At the NE end of this 4km-long rift, is what appears to be a circular feature. The rift could represent active tectonism and therefore locations where fluid expulsion may be occurring. The goal of this dive was to explore the NE extension of this Rift by starting near the base of the nose of the rift and coming upslope to the SW to follow along the top or the ridge crest.

Description of the Dive:

The dive started near the base of the nose of the rift after which we came upslope to the SW moving along the top of the ridge crest. The bottom was heavily covered with soft sediments on top of this feature, but rocky outcrops were present on the marginsjust a few meters, both on the eastern and western sides, below the summit. In general, there was a relatively low abundance of epibenthic megafauna. Burrows of various sizes were observed but we were not able to relate any biota to them. As we moved upslope, the bottom became a mix of pelagic sediment and small pieces of basalt, which became larger at ~1595m. Few corals, sponges and basket stars were observed on these large partially-exposed hard substrates. One morphotype of sedentary crinoid dominated observations during the dive. A few wood falls were observed. Fauna associated with these included squat lobsters, urchins and serpulid worms. There was a high quantity of suspended particles in the water and marine snow throughout the dive.



| 20100801_01h59m57s22_ROVHD_MC The bottom at this site was heavily cove In general there was a very low abundar megafauna. Burrows of various sizes we not able to relate any biota to them. | ered with soft sediments. Ince of epibenthic | 20100801_03h45m35s22_ROVHD_LOG As we moved upslope the bottom became a mix of pelagic sediment and small pieces of basalt, which became larger at ~1595m. A few wood falls were observed. | | | | |
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| Please direct inquiries to: | NOAA Office of Ocean Exploration & Research 1315 East-West Highway (SSMC3 10 th Floor) Silver Spring, MD 20910 (301) 734-1014 | | | | | |