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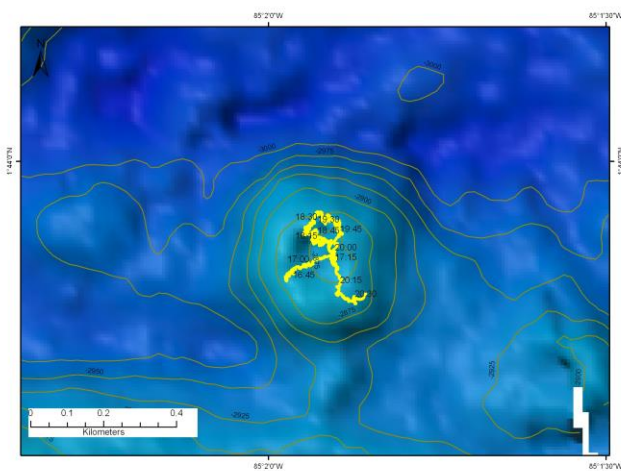
Purpose of the Dive

To dive with ROV Little Hercules to an axial volcano near 85 01.967W 1 43.806N on the eastern side of the Ecuador Rift. There had been no previous visits to this volcano.

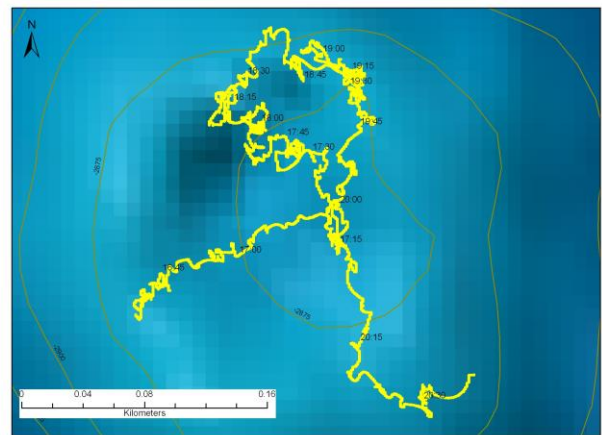
Description of the Dive:

During this dive, we explored the volcano's caldera, which has two deeper craters in it to the north and northeast. Starting from a depth of 2870m, we crossed over the rim on the SW side and entered into the volcano's caldera. We found old pillow lavas approximately 110 meters SW from the flat summit and headed Northeast into the first crater. Corals, sponges, fish and shrimp were observed on pillow lavas heavy with sediment. We explored to the south briefly before moving north toward the inner crater at a depth of 2875m. Little Hercules moved up the western wall of the southern crater along cut pillow lavas with collapsed talus at the base, then traversed over talus slope with many corals and sponges on truncated pillow lavas. Moving to the next crater and heading due East, we discovered a wall covered with corals and sponges. We then moved along the margin of the NE crater and traversed down in to confirm bottom lava morphology, wall structure, and proceeded to the east and out of the crater. Once out on top, we ran along the crater margin to the SE and continued across the caldera summit. On the northern wall of the NE crater we saw sponges and the base of the wall had a small bench-like structure and contact with talus at a depth of 2869 meters.

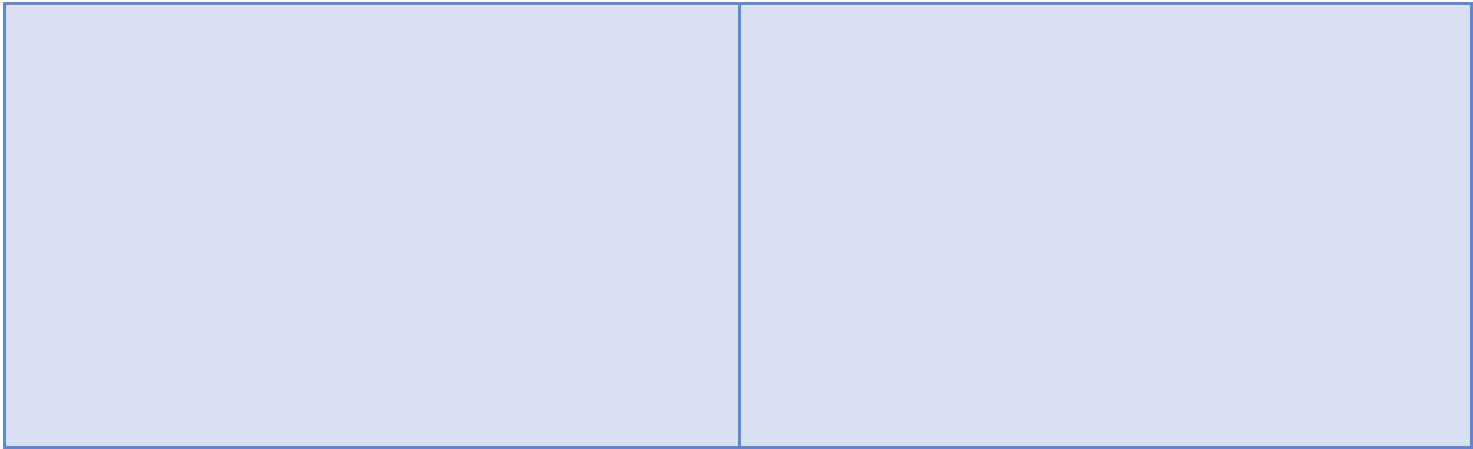
Overall Map of ROV Dive Area



Close-up Map of Main Dive Site



Representative Photos of the Dive



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