

Daily Coring and Scientific Report for IODP Expedition 389 Hawaiian Drowned Reefs



4th October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)

1. Location at 24:00

Position: 20°17.399'N, 155°39.050'W

Water Depth: ~412 m

2. Operations Report

The seafloor corer landed on site KOH-01A just after 00:00 and commenced coring shortly afterwards in Hole M102A. There were some good run lengths and progress was good, reaching 26.07 mbsf by 17:33. Unfortunately, at this time there was a hydraulic failure and the corer was recovered to deck for repairs.

3. Science Report

MSCL logging, interstitial water sampling and lithological descriptions complete for Hole M101A. On deck core curation for Hole M102A was in progress at midnight.

Co-Chief Scientist Jody Webster gave a presentation about the scientific objectives of the expedition to the contractor crew who joined at the mid-expedition port call.



4. Core Recovery Details

Hole	M102A
Cores recovered	14
Drilled length (Coring, m)	26.07
Drilled length (Open hole, m)	N/A
Recovered length (m)	11.08
Recovery (%)	42.50
Depth at midnight (mbsf)	N/A

5. Time Breakdown

00:00 – 17:33 Coring borehole M102A

17:33 – 19:52 Recover seafloor corer for repairs and extract core barrels

19:52 – 24:00 Repairs, extracting barrels from corer and curating cores

6. Hours – no contractual implications can be made from these figures

In port	0.0
Transiting	0.0
Operating	17.78
Technical downtime	6.22
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partly cloudy, good visibility. Wave heights of 1.2 – 1.4 m and swell 0.3 – 1.0 m; wind direction SE to E at 6 – 12 kts, gusting 8 - 16 kts; Temperature 25 - 26°C.

8. Planned Activity for the next 24 hours

- Coring operations at location KOH-02A (Site M101)

9. Health and Safety and Environmental

- Toolbox talks at 11:30 and 23:30 for all on shift. EPMs and Ops Manager attended Contractor Toolbox talk at 11.45 and EPMs at 23:50. Information disseminated to remainder of Science Party.

10. Photo(s) of the day



Inorganic Geochemist Nancy Prouty splitting water samples in the Geochemistry container.
Photo by MarisaRydzy@ECORD_IODP.