

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

29th October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 19°47.538'N, 156°06.2753'W

Water Depth: ~145 m

2. Operations Report

A day of two boreholes and surprises: M110A was terminated early due to recovery of basalt shallower than anticipated. A short transit to a slightly higher terrace of the same reef allowed us to have a quick turnaround and spud into the next borehole, M110B. The contractor requested time to test a tool in the borehole and a glitch with the survey system accounts for the downtime recorded.



3. Science Report

Core curation of M110A was completed and MSCL logging and lithological descriptions of M110A were in progress at midnight.

4. Core Recovery Details

Hole	M110A	M110B
Cores recovered	19	N/A
Drilled length (Coring, m)	11.99	7.91
Drilled length (Open hole, m)	0.0	0.0
Recovered length (m)	N/A	N/A
Recovery (%)	N/A	N/A
Depth at midnight (mbsf)	N/A	7.91

5. Time Breakdown

00:00 – 13:54 Advance borehole M110A to 18.70 mbsf before terminating due to shallower than expected basalt.

13:54 – 15:15 At the request of the Contractor the Client agreed to allow a short time for equipment testing*.

15:15 – 15:58 Recover casing and seafloor corer to the deck.

15:58 – 17:57 Deck operations including core barrel replacement on corer and maintenance.

17:57 – 19:05 Deploy corer at KAW-03Cb. Launch to sea bed aborted as beacon signal not received. Corer recovered to deck, beacons replaced and survey and ship systems rebooted.*

19:05 – 19:42 Second deployment on KAW-03Cb.

19:42 – 24:00 Spud in and advance borehole M110B to 7.91 mbsf by midnight.

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

In port	0.0
Transiting	0.0
Operating	21.52
Downtime	2.48*
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partially sunny with good visibility. Wave heights of 0.2 – 0.3 m and swell 0.1 - 0.3 m; wind direction E to NE at 5 – 11 kts, gusting 6 - 14 kts; Temperature 25 - 27°C.

8. Planned Activity for the next 24 hours

- Continue coring operations at KAW-03C offset 2.
- Transit and coring KAW-03C offset 1

9. Health and Safety and Environmental

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

10. Photo(s) of the day



Some of the day shift at sunset. From left to right: Nancy Prouty, Mary Mowat, Alex Wuelbers, Jody Webster, Youri Hamon and Stephan Jorry. Day staff not present for the impromptu photo but their absence felt: Marisa Rydzy (taking the photo), Graham Tulloch, and Luzie Schnieders. Photograph MarisaRydzy@ECORD_IODP.

A storm coming. Photo by HannahGrant@ECORD_IODP.