

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

30th October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 19°.56.534'N, 156°03.8087'W

Water Depth: ~423 m

2. Operations Report

It was expected that borehole M110B would reveal basalt at the level to that recovered in the borehole at the deeper sub-terrace, M110A. Unfortunately, basalt was located at approximately the same depth. Additional runs were cored to prove the thickness before recovering the seafloor corer to deck and transiting to the next site.

Core barrels were removed from the corer and fresh ones added before the corer was deployed on M97D / KAW-04Da and coring progressed to 10.29 mbsf by midnight. On-deck extraction and curation of M110B was complete by midnight.



3. Science Report

Curation of M110B was completed. MSCL logging and lithological descriptions of M110B were in progress at midnight.

4. Core Recovery Details

Hole	M110B	M97D
Cores recovered	13	N/A
Drilled length (Coring, m)	17.22	10.29
Drilled length (Open hole, m)	0.0	0.0
Recovered length (m)	12.9	N/A
Recovery (%)	74.91	N/A
Depth at midnight (mbsf)	N/A	10.29

5. Time Breakdown

00:00 – 08:46 Advance borehole M110B to 17.22 mbsf before terminating due to shallower than expected basalt.
08:46 – 09:26 Recover casing and seafloor corer to the deck.
09:26 – 11:20 Deck operations including core barrel replacement on corer and maintenance.
11:20 – 12:12 Deploy corer at KAW-04Da.
12:12 – 24:00 Spud in and advance borehole M97D to 10.29 mbsf by midnight.

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

In port	0.0
Transiting	0.0
Operating	24.0
Downtime	0.0
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partially sunny to cloudy with good visibility. Wave heights of 0.1 – 0.6 m and swell 0.3 - 0.4 m; wind direction variable from the E to NWN at 3 – 13 kts, gusting 4 - 17 kts; Temperature 25 - 27°C.

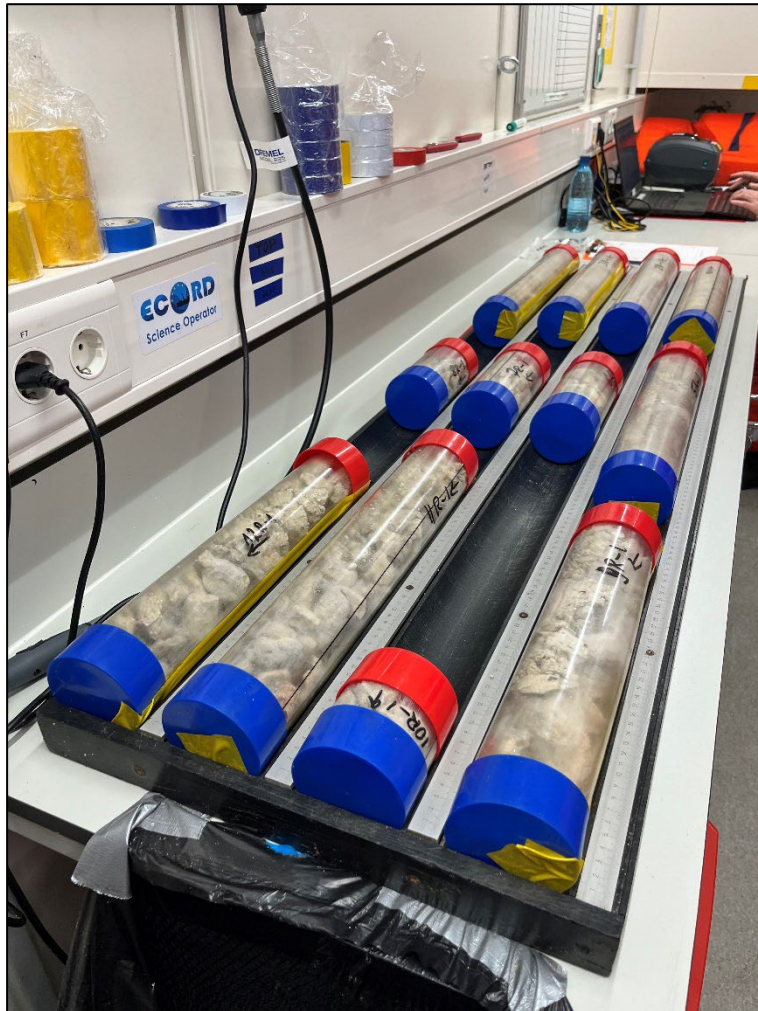
8. Planned Activity for the next 24 hours

- Continue coring operations at M97D.
- Transit to the pilot station at Barbers Point, Honolulu

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.

10. Photo(s) of the day



Core in the curation container ready for the curators!
Photo HannahGrant@ECORD_IODP.