

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

14th September 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position 20° 3.2965 N, 156° 11.3848 W

Water Depth: approximately 1100 m

2. Operations Report

Borehole M98A progressed slowly, achieving approximately 11 m through very hard lithologies. Casing was also set to 13.00 m, however cavings continued causing increased pressure in the borehole at times. Due to the very hard substrate the borehole was advanced using a wash bore from 12.53 mbsf. By coincidence the bore broke through the hard layer at approximately 12.55 mbsf, however borehole washing continued to 13.00 mbsf through a softer layer to allow the rotary to progress.



3. Science Report

Core descriptions from Hole M97B completed.

Co-Chief Scientist Jody Webster participated in a ship-to-shore connection with the ECORD Summer School taking place at the Center for Marine Environmental Sciences (MARUM) at the University of Bremen (Germany). A video introducing Expedition 389 and a deck tour was produced by the Exp. 389 Onboard Outreach Officer Marley Parker and shown to the ECORD Summer School participants. Following the video, Jody Webster took part in a live Q&A. Thomas Felis, an onshore science party member from the MARUM was also present in person at the event.

4. Core Recovery Details

Hole	M98A
Cores recovered	N/A
Drilled length (Coring, m)	17.67
Drilled length (Open hole, m)	0.47
Recovered length (m)	N/A
Recovery (%)	N/A
Depth at midnight (mbsf)	18.14

5. Time Breakdown

00:00 – 24:00 Progressing in M98A by coring and casing. Depth at midnight: 18.14 mbsf.

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

In port	0.0
Transiting	0.0
Operating	24
Technical downtime	0.0
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Mostly cloudy, low cloud and haze with limited visibility and high humidity. Wave heights of 0.9 – 1.8 m and swell 0.1 – 0.5 m; wind direction from the NE at 7 – 14 kts, gusting 9 - 18 kts; Temperature 24 - 26°C.

8. Planned Activity for the next 24 hours

- Continue coring Hole M98A.

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



Photograph by Marley Parker © ECORD_IODP. Co-Chief Scientist Christina Ravelo and Sedimentologist Pankaj Khanna at work in the ESO Science Container.