

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

5th October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 20°17.383'N, 155°39.05'W

Water Depth: ~931 m

2. Operations Report

Core barrels were being offloaded from the seafloor corer at midnight, following this the cores were extruded and curated. Some of this activity was undertaken whilst the vessel transited to the next site, KOH-02A, to advance Hole M101A. Following repairs, the seafloor corer was deployed and lowered to 10 m above the sea bed. Two attempts had to be made to find a suitable landing spot, KOH-02Ac, due to sea bed fauna. The borehole, M101B, commenced by wash boring followed by coring and by midnight 18.989 mbsf had been achieved with 18.5 m of casing set.



3. Science Report

MSCL logging, interstitial water sampling and lithological descriptions completed for Hole M101A. The science party attended the 'Science Bites' discussion group for a talk by Stephan Jorry.

4. Core Recovery Details

Hole	M102A	M101B
Cores recovered	14	N/A
Drilled length (Coring, m)	25.14	7.25
Drilled length (Open hole, m)	N/A	11.73
Recovered length (m)	11.08	N/A
Recovery (%)	44.07	N/A
Depth at midnight (mbsf)	N/A	18.98

5. Time Breakdown

00:00 – 02:05 Transit from Site M102

02:05 – 05:24 Seafloor corer launched and undergoing wet tests

05:24 – 07:18 Locating clear site to land corer.

07:18 – 24:00 Coring to 18.98 mbsf and set casing to 18.5 mbsf in borehole M101B

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

In port	0.0
Transiting	1.33
Operating	18.77
Technical downtime	3.90
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partly cloudy, moderate visibility. Wave heights of 2.6 – 3.5 m and swell 0.6 – 1.3 m; wind direction E to ESE at 8 – 15 kts, gusting 10 - 19 kts; Temperature 24 - 26°C.

8. Planned Activity for the next 24 hours

- Continue 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



Ana Prohaska drawing an interstitial water sample.
Photo by KRubin@ECORD_IODP.