

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

13th October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 19°52.622'N, 154°56.374'W

Water Depth: ~ 404 m

2. Operations Report

A full day of operations with good advancement of M103A with a number of full or near full penetration core runs preceded by short runs. The borehole was terminated when all the core barrels were used and at 45.61 m, is the longest single shot hole (with no washboring) to-date on Expedition 389. The corer was recovered to deck, the barrels exchanged and on deck core curation commenced whilst the vessel began the transit to the next location, HIL-04A.



3. Science Report

On deck core curation of Hole M103A was in progress at midnight.

A new blog post titled 'Peering into a lost world' was published on the Expedition blog site at <https://expedition389.wordpress.com/>.

4. Core Recovery Details

Hole	M103A
Cores recovered	33
Drilled length (Coring, m)	45.61
Drilled length (Open hole, m)	N/A
Recovered length (m)	N/A
Recovery (%)	N/A
Depth at midnight (mbsf)	N/A

5. Time Breakdown

00:00 – 22:03 Advancing M103A by rotary coring from 23.83 mbsf to 45.62 mbsf, terminal depth.

22:03 – 24:00 Remove cores from seafloor corer, commence curation of cores and transit to HIL-04A

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

Sunny with excellent visibility. Wave heights of 0.1 – 0.5 m and swell 0.5 – 1.2 m; wind direction E to SSE at 4 – 7 kts, gusting 5 - 9 kts; Temperature 24 - 25°C.

8. Planned Activity for the next 24 hours

- Complete coring operations at M103A, transit to site HIL-04A.

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



Taking a first look at the M103A core on deck at shift change. M103A is the longest single shot hole with no washboring to-date on Expedition 389. From left to right: Jody Webster, Brian Boston, Christina Ravelo, Kenna Rubin and Ana Prohaska. Photo by HannahGrant@ECORD_IODP.