

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

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



1. Location at 24:00

Position: 19°52.204'N, 154°57.213'W

Water Depth: ~ 347 m

2. Operations Report

With the seafloor corer on deck and the barrels off, the extraction and curation of all 33 barrels was completed. Maintenance of, and repairs to the seafloor corer were completed in parallel to the curation and the corer was deployed at site HIL-04A just after 08:00. Coring progressed at a good rate in Hole M104A, and 21.06 mbsf was achieved by midnight.

3. Science Report

Core curation, interstitial water sampling, and MSCL logging of Hole M103A were completed. Lithological descriptions were completed to section 28 of 33.

4. Core Recovery Details

Hole	M103A	M104A
Cores recovered	33	N/A
Drilled length (Coring, m)	45.61	21.06
Drilled length (Open hole, m)	N/A	N/A
Recovered length (m)	14.31	N/A
Recovery (%)	31.4	N/A
Depth at midnight (mbsf)	N/A	21.06



5. Time Breakdown

00:00 – 04:00 Extracting cores and curating M103A barrels

04:00 – 08:42 Maintenance of seafloor corer

08:42 – 24:00 Deployment of corer and advancing M104A by rotary coring to 21.06 mbsf.

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

In port	0.0
Transiting	0.0
Operating	19.3
Technical downtime	4.7
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Mostly sunny, cloudy later with isolated rain showers. Wave heights of 0.1 – 0.5 m and swell 0.3 – 1.1 m; wind direction ENE to SSE at 4 – 6 kts, gusting 4 - 8 kts; Temperature 24 - 25°C.

8. Planned Activity for the next 24 hours

- Continue coring operations at M104A.

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



A queue of M103A cores for the reefer. All hands on deck! From left to right: Youri Hamon, Luzie Schnieders, Mary Mowat and Nancy Prouty. Photo by MarisaRydz@ECORD_IODP.