

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

26th September 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position 19°50.1281'N, 156°5.0566'W

Water Depth: approximately 140 m

2. Operations Report

Two boreholes were started today with the first, M99E, unfortunately finishing due to a technical fault at 31.8 mbsf. The corer was recovered to deck and the equipment repaired which allowed us to commence coring at a different location. All the cores were extracted from the barrels, curated and placed in the MSCL container. 13.45 mbsf had been achieved by midnight on site M99F.



3. Science Report

MSCL logging and lithological descriptions completed for M99E.

4. Core Recovery Details

Hole	M99E	M99F
Cores recovered	25	11
Drilled length (Coring, m)	16.47	13.45
Drilled length (Open hole, m)	N/A	N/A
Recovered length (m)	18.00	7.94
Recovery (%)	56.93	50.19
Depth at midnight (mbsf)	N/A	13.45

5. Time Breakdown

00:00 – 06:30 Hole M99E abandoned at 31.62 m due to a technical issue on seafloor corer
06:30 – 07:30 Seafloor corer recovery
07:30 – 09:30 Barrels unloaded from seafloor corer, seafloor corer maintenance
09:30 – 12:15 Extracting cores from core barrels for M99E & prepare for deployment for KAW-02Cf.
12:15 – 12:30 Launch and landing of seafloor corer
12:30 – 12:45 Start coring operations at Hole M99F, complete curation of cores from Hole M99E.
12:45 – 24:00 Continue coring operations in Hole M99F

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

In port	0.0
Transiting	0.0
Operating	21.92
Technical downtime	2.08
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Most sunny in the morning, cloudy in the afternoon, good visibility. Wave heights of 0.7 – 0.8 m and swell 0.4 – 0.5 m; wind direction W to NNW at 2 – 7 kts, gusting 8 - 12 kts; Temperature 24 - 25°C.

8. Planned Activity for the next 24 hours

- Continue coring operations at Site M99.
- Begin transit back to Barbers Point Harbor, Oahu for mid-expedition port call.

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



Co-Chief Scientist Jody Webster examining core on deck from M99E.
Photo by MarleyParker@ECORD_IODP.