

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

1st October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 20°16.404'N, 155°29.373'W

Water Depth: ~931 m

2. Operations Report

The day started well with coring reaching 12.43 mbsf until a loss of connection to the satellites on both DGPS systems required recovery of the seafloor corer from the seabed. This was achieved without damage to the seafloor corer thanks to the skill and awareness of the operators. Investigations were initiated to determine how and why it happened and operations were suspended until it could be certain this would not happen again, or to allow mitigations to be put in place to reduce potential damage.

3. Science Report

Core curation, MSCL logging and lithological descriptions complete for Hole M100A.

4. Core Recovery Details

Hole	M100A
Cores recovered	12
Drilled length (Coring, m)	1.49
Drilled length (Open hole, m)	N/A
Recovered length (m)	9.73
Recovery (%)	78.23
Depth at midnight (mbsf)	N/A

5. Time Breakdown

00:00 – 05:08 Advancing Hole M100A by rotary coring
05:08 – 07:05 Extracting core barrels from sea bed, recovering corer to deck
07:05 – 13:25 Removing liners from core barrels and curating sections
13:25 – 19:30 Transit to site KOH-02A
19:30 – 24:00 Standing by for DGPS mitigation plan

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

In port	0.0
Transiting	6.0
Operating	5.92
Technical downtime	12.08
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partly cloudy, good visibility. Wave heights of 1.0 – 1.2 m and swell 0.4 – 0.9 m; wind direction southwesterly at 6 – 15 kts, gusting 13 - 24 kts; Temperature 25 - 26°C.

8. Planned Activity for the next 24 hours

- Coring operations when safe to do so.

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.
- Weekly safety meeting at 11:00 for oncoming day shift and 13:00 for the night shift.



10. Photo(s) of the day



Night shift sedimentologist Pankaj Khanna enjoying daylight.
Photo by MarisaRydzynski@ECORD_IODP.