

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

17th October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 18°51.382'N, 155°41.299'W

Water Depth: ~ 148 m

2. Operations Report

Today saw completion of one borehole, transit to a new work area and launch the seafloor corer at Hole M105A on a second site (HIL-03A). There was also a period of off-hire activity which was not technical. M105A was completed at 29.26 mbsf to allow recovery and transit to new work area before the forecast heavy seas arrived. A 12 hour transit was required before the deployment of the corer and coring commenced just before midnight.

3. Science Report

MSCL logging and lithological descriptions were completed for M104A. Cores from M105A were curated and are in the process of undergoing MSCL logging and lithological descriptions.

4. Core Recovery Details

Hole	M105A	M106A
Cores recovered	11	N/A
Drilled length (Coring, m)	3.92	N/A
Drilled length (Open hole, m)	0.0	N/A
Recovered length (m)	7.63	N/A
Recovery (%)	29.26	N/A
Depth at midnight (mbsf)	N/A	2.75

5. Time Breakdown

00:00 – 06:49 Advancing M105A by rotary coring. Borehole terminated by ESO at 26.08 mbsf.
06:49 – 09:30 Recover corer to deck and remove core barrels
09:30 – 11:25 Off hire
11:25 – 22:36 Transit to new site
22:36 – 24:00 Deploy corer at KAL-01Aa, target location found to be not suitable and so a 100m shift was requested and the corer was set on the sea bed at location KAL-01Ab. Cored to 2.75 mbsf.

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

In port	0.0
Transiting	11.18
Operating	10.9
Downtime	1.92
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partially sunny. Wave heights of 0.4 – 2.0 m and swell 1.0 – 1.6 m; wind direction ENE to SE at 10 – 17 kts, gusting 13 - 22 kts; Temperature 26 - 27°C.

8. Planned Activity for the next 24 hours

- Continue coring operations at M106.

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



Youri Hamon (L), Marc Humblet (R) and Mauna Kea in the background. Photo by MarisaRydz@ECORD_IODP.