

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

27th September 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position 20°16.662'N, 156°22.764'W

Water Depth: approximately ~2500 m

2. Operations Report

A system fault just after shift change and midnight required the corer to be brought to the surface. Although this took longer than usual because of the fault, all core and coring equipment was safely recovered to deck. As the planned mid-expedition port call on the 28th Sept. was upcoming, the transit from the worksite to Honolulu was begun whilst the cores were extracted from the barrels and curated.



3. Science Report

Core curation, MSCL logging and lithological descriptions complete for Hole M99F.

A new blog post titled 'Black rocks and bubbles' was published on the expedition blog site <https://expedition389.wordpress.com/>.

4. Core Recovery Details

Hole	M99F
Cores recovered	9
Drilled length (Coring, m)	13.45
Drilled length (Open hole, m)	N/A
Recovered length (m)	6.75
Recovery (%)	50.19
Depth at midnight (mbsf)	N/A

5. Time Breakdown

00:00 – 02:00 Hydraulic systems down on seafloor corer, decision to abandon M99F.

02:00 – 03:40 Recover seabed corer.

03:40 – 10:00 Downtime working on seafloor corer.

10:00 – 00:00 Transit back to Barbers Point Harbor, Oahu for port call.

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

In port	0.0
Transiting	14.0
Operating	3.7
Technical downtime	6.3
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Most sunny, good visibility. At Site M99, wave heights of 0.7 – 0.8 m and swell 0.4 – 0.5 m, wind direction W to NNW at 4 – 8 kts, gusting 8 - 14 kts. Temperature 24 - 25°C. During transit, wave heights of 1.3 – 2.3 m, swell 0.5 – 1.1 m, wind direction W to NW at 4 – 24 kts, gusting 22 – 32 kts. Temperature 23 -25°C.

8. Planned Activity for the next 24 hours

- 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



Final toolbox talk and midnight crossover on Main Street for the first leg of Expedition 389. Photo by HannahGrant@ECORD_IODP.