

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

3rd October 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



1. Location at 24:00

Position: 20°17.398'N, 155°39.051'W

Water Depth: ~412 m

2. Operations Report

Borehole M101A was completed when all core barrels on the corer were used at a depth of 18.09 mbsf. The corer was recovered to deck and all barrels removed and replaced with new ones prior to core extraction on the Cat Walk. During this time, the vessel transited to the next site, KOH-01A.

3. Science Report

Core curation, geochronological and aDNA sampling was completed for M101A. Limited interstitial water sampling and core equilibration prior to MSCL logging was in progress at midnight.

A new blog post titled 'The 100th Site' was published on the expedition blog site at <https://expedition389.wordpress.com/>.



4. Core Recovery Details

Hole	M101A
Cores recovered	29
Drilled length (Coring, m)	6.9
Drilled length (Open hole, m)	N/A
Recovered length (m)	12.34
Recovery (%)	68.22
Depth at midnight (mbsf)	N/A

5. Time Breakdown

00:00 – 16:28 Coring borehole M101A

16:28 – 19:04 Recover seafloor corer, extract core barrels, pre-dive checks. Transit to KOH-01A.

19:04 – 21:00 Arrive on station at KOH-01A

23:08 – 00:00 Deployment of seafloor corer to seabed.

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

In port	0.0
Transiting	0.0
Operating	24
Technical downtime	0.0
Weather downtime	0.0
Mobilisation	0.0

7. Weather

Partly cloudy, moderate visibility. Wave heights of 1.3 – 1.6 m and swell 1.0 – 1.3 m; wind direction WSW at 6 – 11 kts, gusting 9 - 16 kts; Temperature 25 - 26°C.

8. Planned Activity for the next 24 hours

- Coring operations at location KOH-01A.

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



ESO staff looking out. From left to right: Alex Wuelbers and Mary Mowat.
Photo by MarisaRydzzy@ECORD_IODP.