

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

18<sup>th</sup> September 00:00 - 24:00 HST Hawaii Standard Time (UTC -10)



### 1. Location at 24:00

Position 20°02.2202 N, 156°03.9337 W

Water Depth: approximately 740 m

### 2. Operations Report

Recovered seabed corer, unloaded core barrels, extracted core liners and curated 32 sections from 36.16 mbsf. To give the science party the opportunity to examine the cores and determine future coring strategy, the decision to occupy a site close to location KAW-06Ae. At KAW-06Af the seafloor corer was deployed. Unfortunately a fault was identified during the wet test and the corer recovered to deck.

### 3. Science Report

Completion of curation for Hole 97C. MSCL logging and lithological descriptions were ongoing at midnight.

### 4. Core Recovery Details

Hole	M97C
Cores recovered	32
Drilled length (Coring, m)	35.62 m
Drilled length (Open hole, m)	0.54 m
Recovered length (m)	28.04
Recovery (%)	78.72
Depth at midnight (mbsf)	N/A



### 5. Time Breakdown

00:00 – 01:30 Complete coring operations in Hole M97C

01:30 – 02:15 Recover casing and recover seabed corer to deck

02:15 – 03:40 Unload core barrels from seabed corer and move to location KAW-06Af

03:40 – 11:25 Extract cores from barrels and prepare seabed corer for next deployment

06:30 – 24:00 Troubleshoot and affect repairs to seafloor corer.

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

In port	0.0
Transiting	0.0
Operating	6.67
Technical downtime	17.33
Weather downtime	0.0
Mobilisation	0.0

### 7. Weather

Mostly sunny, good visibility. Wave heights of 1.3 – 1.4 m and swell 0.3 – 0.6 m; wind direction ESE to SSE at 2 – 7 kts, gusting 5 - 14 kts; Temperature 25 - 27°C.

### 8. Planned Activity for the next 24 hours

- Start drilling operations at location KAW-06Af.

### 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**



Limestone deposits at the end of a core barrel that was recovered from H2 – the reef currently at ~ 400 m below present sea level. Photo by MarleyParker@ECORD\_IODP.