

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

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



### 1. Location at 24:00

Position: 19°50.107'N, 156°05.5578'W

Water Depth: ~ 146 m

### 2. Operations Report

A full day of coring with the seafloor corer on the sea bed in difficult ground at times. The plan was to wash down to 31 mbsf, however we hit problems at 26.84 mbsf and so a core barrel was deployed to capture material that we felt was causing problems. This was successful and wash boring continued to 30.84 mbsf when we started rotary coring. Progress was slow due to the same type of difficult ground experienced above. Coring was advanced to 37.19 mbsf at midnight.



### 3. Science Report

A new blog post titled 'Communicating Science Offshore' was published on the Expedition blog site at <https://expedition389.wordpress.com/>.

### 4. Core Recovery Details

Hole	M99G
Cores recovered	N/A
Drilled length (Coring, m)	6.24
Drilled length (Open hole, m)	30.95
Recovered length (m)	N/A
Recovery (%)	N/A
Depth at midnight (mbsf)	37.19

### 5. Time Breakdown

00:00 – 07:12 Wash boring from sea bed to 25.88 mbsf in difficult ground, setting casing as required.

07:12 – 09:10 Replace wash bore with rotary barrel to capture material at the bottom of the hole.

09:10 – 13:01 Wash bore from 26.73 to 30.84 mbsf

13:01 – 24:00 Advance borehole to 37.19 mbsf

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

In port	0.0
Transiting	0.0
Operating	24.0
Downtime	0.0
Weather downtime	0.0
Mobilisation	0.0

### 7. Weather

Partially sunny, good visibility. Wave heights of 0.3 – 1.1 m and swell 0.2 – 1.3 m; wind direction N to ESE at 8 – 20 kts, gusting 8 - 26 kts; Temperature 24 - 26°C.

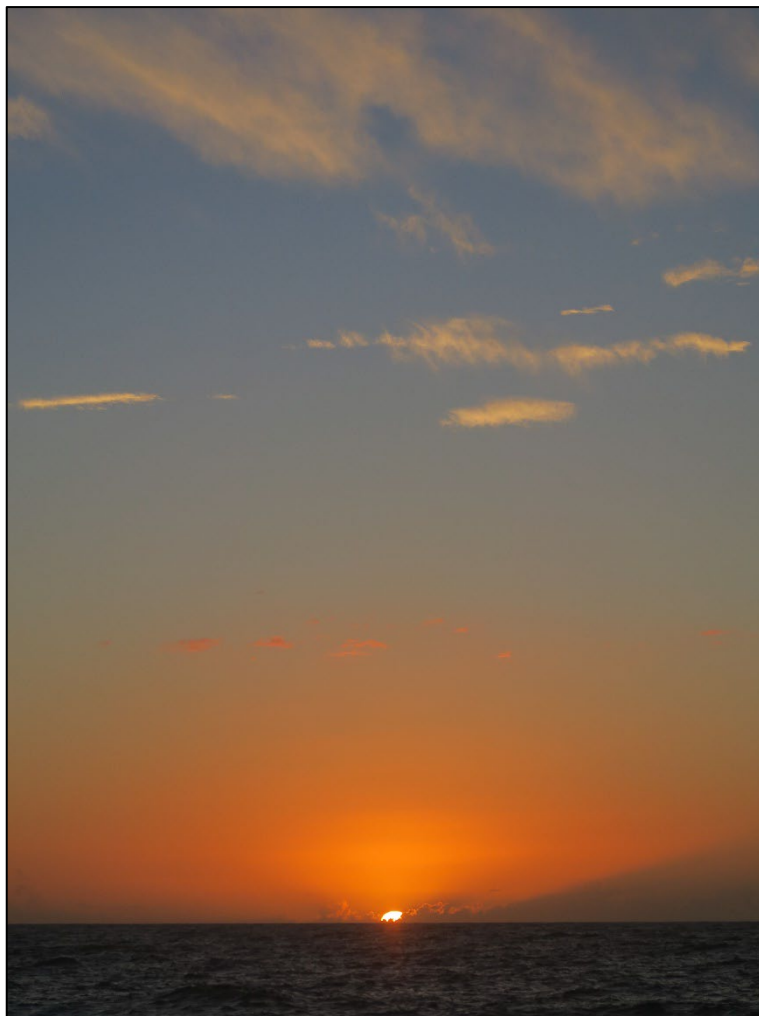
### 8. Planned Activity for the next 24 hours

- Continue coring operations at M99G.

### 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**



Goodnight sunshine. An offshore Hawaiian sunset by MaryMowat@ECORD\_IODP.