



### 27th May 00:00 - 17th May 24:00 East Daylight Time (UTC -4)

#### 1. Location

Position 40.8746°N, 70.2697°W @12:00 EDT 27th of May IODP-MSP borehole M0111B
Prospectus borehole MV-03C

Water Depth: 42m

### 2. Operations Report

From 24:00 to 09:00 further attempts were made to assess the problems with the hole. At 09:00 a camera was run down the borehole to confirm casing integrity, but visibility was poor. It was decided to run the image logging tool and from 09:00 to 10:30 the casing was washed with seawater and the logging equipment was prepared and rigged. At 10:30, the optical logging tool was run to shoe depth (60 mbsf) and it was interpreted that there was damage in the casing. The decision was made to switch to a different BHA assembly using PQ drill rods to 120 mbsf depth and continue coring with smaller diameter HQ drill rod BHA. At 21:00 the HQ BHA was run and coring began at a depth of 121 mbsf. At 23:50 Core 34R was recovered to deck with a length of 1.58m.

### 3. Science Report

All samples from cores recovered on the 26th of May processed and logged. All core run through MSCL.

#### 4. Core Recovery

Hole	M0111B
Cores recovered	1
Drilled length (Coring, m)	1
Drilled length (Open hole, m)	n/a
Recovered length (m)	1.58
Recovery (%)	158%
Depth at midnight (mbsf)	122.52

#### 5. Time Breakdown

00:00 - 09:00 borehole assessment

09:00 camera run to check casing integrity

09:00 - 10:30 washing down casing and preparing logging tool

10:30 run optical logging tool to shoe depth

11:00 - 21:00 preparation and setup for alternative BHA

21:00 Begin running and coring with HQ BHA

23:50 Core 34R recovered to deck

## 6. Hours (inc. cumulative total) - no contractual implications can be made from these figures

In port	n/a
Transiting	n/a
Operating	3h
Technical downtime	21h
Weather downtime	n/a
Other downtime (specify)	n/a

## 7. Weather

Wind 11mph from W at 12:00. Wave height 0.3 to 0.47 m. Clear with good visibility to horizon.

## 8. Planned Activity for the next 24 hours

Continue coring Hole M0111B using new BHA and assess progress Continued sampling and MSCL protocol

# 9. Health and Safety and Environmental

Noted good practice from crew and X501 team while making crane lifts for logging tools.

# 10. Photo of the day



Figure 1 Simon Barry running the logging tool to assess borehole conditions in Hole M0111B. LEBER@ECORD\_IODP3\_NSF\_logging1