



## 21st May 00:00 - 21st May 24:00 East Daylight Time (UTC -4)

#### 1. Location

Position 40.8746°N, 70.2697°W @1200hrs EDT 21<sup>st</sup> of May IODP-MSP borehole M0111A Prospectus borehole MV-03C

Water Depth: 42m

#### 2. Operations Report

Preloading of the LB Robert continued until 04:00 when dumping of water commenced. At 07:00 preloading was complete and the platform was jacked up to working height (working deck approximately 10m above wave height) by 07:15. Operations began at 07:15. The X501 team prepared the working containers and set up the container laboratories and were ready to receive core by 11:00. The drilling team ran casing between 09:30 and 11:00 and tagged seabed by 13:00. Hydraulic piston coring (HPC) commenced at 13:00 and the first core on deck was received at 14:35. 3 further cores were received, curated and sampled from the HPC prior to 24:00 with a total of 10.84m of core recovery.

### 3. Science Report

13 sediment samples were taking for interstitial water geochemistry, micropaleontology, and microbiology from the first four cores (8 sections). Further splits from these samples were taken for geochemical analyses. All sample details were recorded in the mdis system.

#### 4. Core Recovery Details

Hole	M0111A
Cores recovered	4
Drilled length (Coring, m)	9.5
Drilled length (Open hole, m)	N/A
Recovered length (m)	10.84
Recovery (%)	112%
Depth at midnight (mbsf)	9.5

## 5. Time Breakdown

00:00 continued preloading

04:00 begin dumping preload water

07:00 preload complete

07:15 jackup to platform working height around 10m above wave height

07:15 operations commence

07:30 preparing science and working containers

09:30 running casing for 1.5h

11:00 Captain, contractor, ESO and CC meeting

12:00 X501 team crossover meeting

13:00 Coring operations commence with HPC

14:35 First core on deck. Core 1 - 1.5m recovered length

17:00 core on deck. Core 2 – 2.59m recovered length

22:00 Core on deck. Core 3 – 2.64m recovered length

22:55 Core on deck. Core 4 - 2.71m recovered length

23:00 Coring using HPC continued.

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

In port	0.0
Transiting	0.0
Operating	17h
Technical downtime	0.0

Weather downtime	0.0
Other downtime (specify)	7h 0m
	(preloading)

### 7. Weather

Wind 20-24mph from ENE at 12:00. Wave height ~1.1m from ENE. Overcast with good visibility to horizon.

**8. Planned Activity for the next 24 hours** Continued coring using hydraulic piston core Curation and sampling of cores Monitoring of weather conditions as poor conditions forecast.

# 9. Health and Safety and Environmental

Poor weather conditions forecast for 22<sup>nd</sup> May 2025. Helicopter and OSV transfers delayed until the 23<sup>rd</sup>. Conditions to be monitored.

X501 team advised to take care while working outside and to be careful on stairs.

## 10. Photo of the day



First core on deck being measured by ESO curators Geprägs (left) and Birte Winkelhues. STEWART@ECORD\_IODP3\_NSF\_First\_Core