



**Daily Drilling and Scientific Report for
IODP3-NSF Expedition 501
New England Shelf Hydrogeology, 2025**



14th June 00:00 – 14th June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.8746°N, 70.2697°W @12:00 EDT 8th of June
IODP-MSP borehole M0111C
Prospectus borehole MV-03C
Water Depth: 44m

2. Operations Report

Completed the derigging of the packer and commenced coring operations by firstly conditioning the hole and flushing with mud.
Coring operations progressed well and 18 cores recovered over a 57m interval with mixed but generally good recovery totaling 35.71 m.

3. Science Report

53 samples were taken and analysed on the 14th of June for interstitial water geochemistry, micropaleontology physical properties measurements, noble gas analyses and microbiology. 12 cores were run through the MSCL with a total length of 14.97 m.

4. Core Recovery

Hole	M0111C
Cores recovered	18
Drilled length (Coring, m)	57 m
Drilled length (Open hole, m)	13.64 m
Recovered length (m)	35.71 m
Recovery (%)	63%
Depth at midnight (mbsf)	228.36 m

5. Time Breakdown

00:00 - 00:10 Derigging of the packer etc.
00:10 - 24:00 Open holing & coring.

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

In port	n/a
Transiting	n/a
Operating	24
Technical downtime	0
Weather downtime	0
Other downtime (specify)	0

7. Weather

Winds from the east built from 14 kt to 20 kt throughout the day, swinging to the northeast by evening. Swell built throughout the day to 2.5 to 3 m by late evening. Visibility was poor at around 3 nm with periodic heavy rain.

8. Planned Activity for the next 24 hours

Next groundwater pump test.

9. Health and Safety and Environmental

No health and safety issues were identified.
The ship's decks were checked for stranded seabirds. None were found.

10. Photo of the day



Figure 1: ESO Petrophysicist Tayyaba Khurram and geochemist Alizé Longeau take 5 minutes for a chat during a busy shift (photo LEBER@ECORD_IODP3_NSF_talks4).