



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



28th May 00:00 – 28th May 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.8746°N, 70.2697°W @12:00 EDT 28th of May
IODP-MSP borehole M0111B
Prospectus borehole MV-03C
Water Depth: 42m

2. Operations Report

Coring continued successfully using the HQ BHA for 24 hours from 00:00 to 24:00 from a depth of 123mbsf to 203 mbsf. 35 Cores were recovered, with a total recovered length of 59.2m.

3. Science Report

112 samples were taken on the 29th of May for interstitial water geochemistry, micropaleontology, noble gas analyses and microbiology. 14 cores were run through the MSCL with a total length of 26.81m.

4. Core Recovery

Hole	M0111B
Cores recovered	35
Drilled length (Coring, m)	80.6
Drilled length (Open hole, m)	n/a
Recovered length (m)	59.2
Recovery (%)	73%
Depth at midnight (mbsf)	203.06

5. Time Breakdown

00:00 – 24:00 Coring using HQ BHA

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

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

7. Weather

Wind 9 mph from SW at 12:00. Wave height 0.32 to 0.47 m. Mostly clear with some haze. Visibility to horizon at 12:00.

8. Planned Activity for the next 24 hours

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

9. Health and Safety and Environmental

Wet weather forecast

10. Photo of the day



Figure 1 Paul Moser Röggl and Sophie ten Hietbrink taking sediment samples for noble gas analyses from Hole M0111B.
LEBER@ECORD_IODP3_NSF_NG_sampling1