



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



6th June 00:00 – 6th June 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

The HQ BHA was pulled out of the hole and a PVC casing was run into the hole to enable logging. By 06:00 the PVC casing had reached 343 mbsf and advanced no further. Drilling mud was displaced with seawater and logging through PVC commenced at 09:00. The section between 340 mbsf and 120 mbsf was logged by 18:00. From 18:00 to 21:00 the PQ drill rod 'casing' lengths were pulled from 120mbsf to 20 mbsf. Logging the borehole upper section (20 – 120 mbsf) continued until past midnight.

3. Science Report

No cores were recovered today, 7 QAQC cores were run on the MSCL. Logging of the Hole was undertaken from 340 mbsf to 20 mbsf using a suite of logging tools, continuing past midnight.

4. Core Recovery

Hole	M0111B
Cores recovered	0
Drilled length (Coring, m)	0
Drilled length (Open hole, m)	0
Recovered length (m)	0
Recovery (%)	0
Depth at midnight (mbsf)	392.93 m

5. Time Breakdown

00:00 - 02:00 Pulling HQ BHA out of the hole
02:00 - 06:00 Running PVC into the hole from surface to 343 mbsf. Hanging PVC at 340 mbsf
06:00 - 18:00 Rigging up and logging section between 120 and 340 mbsf
18:00 - 20:00 Pulling PQ drill rod 'casing' from 120 mbsf to 20 mbsf (2 metres below the casing shoe depth)
20:00 - 24:00 Rigging up and logging section between 20 and 120 mbsf

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

Southwesterly winds blew at around 13 kts throughout the day with gentle 0.5 m swells from the south east. Visibility decreased during the morning from c. 5 nm to 0 nm in the afternoon, and improving to horizon throughout the evening.

8. Planned Activity for the next 24 hours

Continue logging operations to completion, remove casing from Hole and and prepare for ship movement to Site M0111C.

9. Health and Safety and Environmental

No Health and Safety issues to report

10. Photo of the day



Figure 1:ESO scientists prepare to deploy one of the suite of logging tools down Hole M0111B (photo MOWAT@ECORD_IODP3_NSF_PXL_20250606_113203117).