



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



**4<sup>th</sup> June 00:00 – 4<sup>th</sup> 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**

Coring resumed at 01:00, after a trip to replace the bit was concluded. Between 01:00 to 17:30 twenty core runs were made, totaling 40.9 metres of advance. Loose sands limited the recovery rate to 23% and attempts to increase recovery limited the average core run to 2.0 metres.  
At 17:30, pulling out of the hole was required due to a stuck barrel. The barrel was removed, and the bit was replaced by 23:00 and by 24:00 the new BHA was being run in the hole.

**3. Science Report**

21 sets of samples were taken and analysed for interstitial water geochemistry, micropaleontology, physical properties measurements and microbiology. A total of 12 cores were scanned using the MSCL with a total scanned length of 5.72 m.

**4. Core Recovery**

<b>Hole</b>	M0111B
<b>Cores recovered</b>	20
<b>Drilled length (Coring, m)</b>	40.85 m
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	9.28 m
<b>Recovery (%)</b>	22.7%
<b>Depth at midnight (mbsf)</b>	392.93 m

**5. Time Breakdown**

00:00 - 01:00 Running HQ BHA in open hole  
01:00 - 17:30 Coring ahead, 40.9 m of advance, 23 % recovery rate  
17:30 - 22:00 Pulling WH BHA out of the hole  
22:00 - 23:00 Assembling new HQ BHA  
23:00 - 24:00 Running HQ BHA in open hole

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

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

**7. Weather**

Steady southwesterly winds of between 8 and 13 kt prevailed throughout the day, accompanied by a 1 m swell from the southeast. Visibility was good to the horizon, with some cloud cover developing towards the evening and overnight.

**8. Planned Activity for the next 24 hours**

GR log and core ahead until total depth (TD), estimated at 450 m

**9. Health and Safety and Environmental**

No Health and Safety issues to report

**10. Photo of the day**



*Figure 1: ESO Expedition Operations Manager, Graham Tulloch assisting with curation of a core (photo LEBER@ECORD\_IODP3\_NSF\_Curation2.).*