



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



**10<sup>th</sup> June 00:00 – 10<sup>th</sup> 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**

The borehole was advanced to 110mbsf and 2 HPC cores were collected before advancing with the NCA to 125mbsf to attempt coring with the Alien corer. At 125mbsf the NCA proved difficult to remove from the BHA and several hours were spent cleaning the borehole.

**3. Science Report**

19 samples were taken and analysed on the 10th of June for interstitial water geochemistry, micropaleontology physical properties, noble gas analyses and microbiology. 2 cores were run through the MSCL with a total length of 2.07 m.

**4. Core Recovery**

<b>Hole</b>	M0111C
<b>Cores recovered</b>	2
<b>Drilled length (Coring, m)</b>	5 m
<b>Drilled length (Open hole, m)</b>	21 m
<b>Recovered length (m)</b>	5 m
<b>Recovery (%)</b>	100%
<b>Depth at midnight (mbsf)</b>	101 m

**5. Time Breakdown**

00:00 - 13:15 Advancing the borehole by non-coring assembly.  
13:15 - 15:45 2 HPC samples from 110mbsf.  
15:45 - 24:00 Advancing the borehole .

**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**

The weather remained foggy throughout the day with a strong south south-westerly breeze of 16 kt, and 1.5 m swell from the south east. Visibility was 0 nm all day.

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

Continue with borehole plan of coring at specific intervals and setting up for pump tests.

**9. Health and Safety and Environmental**

No health and safety issues to report.

## 10. Photo of the day



Figure 1: View of the working deck from Deck 3 of the L/B Robert (photo TULLOCH@ECORD\_IODP3\_NSF\_IMG\_2713).