



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



**10<sup>th</sup> July 00:00 – 10<sup>th</sup> July 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.99783°N, 70.33337°W @12:00 EDT 10th July  
IODP-MSP borehole M0112B  
Prospectus borehole MV-08AB  
Water Depth: 41m

**2. Operations Report**

A short lightning storm paused operations this morning but other than that it was a day of sampling and commencing the third pump test in this borehole.

**3. Science Report**

3 samples were collected/processed for micropaleontology and geochemistry from spot cores. 12.75 m of core were run through the MSCL. Data from the pumping operations were recorded and preparations for sampling completed.

**4. Core Recovery**

<b>Hole</b>	M0112B
<b>Cores recovered</b>	5
<b>Drilled length (Coring, m)</b>	9
<b>Drilled length (Open hole, m)</b>	n/a
<b>Recovered length (m)</b>	3.02
<b>Recovery (%)</b>	34%
<b>Depth at midnight (mbsf)</b>	255.82

**5. Time Breakdown**

00:00 – 10:35 Advance the borehole to 255.82mbsf using the alien corer to define the depth of the aquifer to extract from and the clay in which to set the packer.  
10:35 – 11:55 Conditioning the borehole and filling string with seawater.  
11:55 – 13:50 Placing water test manifold etc. on to the drill floor. Dip the water depth in the CHD and run the pump and sensor down the CHD.  
13:50 – 24:00 Start the pump and monitor mud flow and head height.

**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>	22.5
<b>Technical downtime</b>	0
<b>Weather downtime</b>	1.5
<b>Other downtime (specify)</b>	0

**7. Weather**

Winds at 13kts from the SW at 11:00. Waves between 1 and 2m. Visibility poor with extensive fog and rain. Max visibility around 0.75 nm during daylight, improving after 20:00.

## 8. Planned Activity for the next 24 hours

Continue with the pump test.

## 9. Health and Safety and Environmental

Operations were paused at 03:50 for just under two hours due to a storm and lightning in the area.

The vessel was searched for stranded seabirds at sunrise. None were found.

## 10. Photo of the day



*Figure 1 Ian Kulin and Vera Bender attach floats to the newly arrived SCIMPI system LEBER@ECORD\_IODP3\_NSF\_SCIMPI.*