



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



**15<sup>th</sup> July 00:00 – 15<sup>th</sup> July 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.618333°N, 70.136972°W @12:00 EDT 15th July  
IODP-MSP borehole M0113A  
Prospectus borehole MV-04C-A  
Water Depth: 53.9m

**2. Operations Report**

Everyone was delighted to get back out on deck following the preloading and lifting the boat to working height this morning. Following adjustments to the moonpool to assist casing handling, the casing was run to the sea bed with the CHD (coring string) following. A successful long first core was recovered (2.9m) from the HPC which set the tone for the rest of the day.

**3. Science Report**

19 samples were taken on the 15<sup>th</sup> of July for geochemistry, microbiology, micropaleontology and sedimentology analyses. The recovered cores were transferred to the MSCL container to come to temperature before being scanned.

**4. Core Recovery**

<b>Hole</b>	M0113A
<b>Cores recovered</b>	7
<b>Drilled length (Coring, m)</b>	15.88
<b>Drilled length (Open hole, m)</b>	n/a
<b>Recovered length (m)</b>	15.88
<b>Recovery (%)</b>	100
<b>Depth at midnight (mbsf)</b>	15.88

**5. Time Breakdown**

00:00 – 09:00 Deck closed for preload and platform lifting.  
09:00 – 14:20 Adjusting the moonpool.  
14:20 – 16:00 Running casing to sea bed & setting.  
16:00 – 17:40 Running the CHD to just above sea bed.  
17:40 – 18:10 Drill rig sensor repairs.  
18:10 – 24:00 HPC coring.

**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**

Winds at 9 kts from SSW at 11:00. Wave heights less than 1m. Some fog but clearing through the day. Maximum visibility 6.5 nm.

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

Advance the borehole using HPC (hydraulic piston) & ALN (Alien/rotary) coring. Set the casing.

## **9. Health and Safety and Environmental**

The X501 team were reminded to be aware of changing operations on deck and to stay hydrated and wear sunscreen in hot weather.

10. Photo of the day



*Figure 1 Curator Leola Pfaffling cutting the first core from M0113A with help from Carel Lewis  
LEBER@ECORD\_IODP3\_NSF\_curation.*