



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



**13<sup>th</sup> July 00:00 – 13<sup>th</sup> July 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.99783°N, 70.33337°W @12:00 EDT 13th July  
IODP-MSP borehole M0112B  
Prospectus borehole MV-08AB  
Water Depth: 41m

**2. Operations Report**

Following a short period of mechanical downtime to repair a hydraulic problem on the rig, the rest of the morning was spent tripping the CHD string and attempting to cut the casing. The casing could not be moved from a depth approximately 3m from its set point and so after several hours it was decided we had to cut it. After several attempts this was successful and it was able to be tripped. However, the casing moved in the borehole and struck the CHD string, which was in place to allow SCIMPI deployment, potentially bending a section of it: working to make the casing vertical in the borehole and recover the CHD to check for damage took the rest of the day.

**3. Science Report**

All sampling and processing was completed by the 13<sup>th</sup>. Data from the GR log continued to be processed. No new material was run through the MSCL.

**4. Core Recovery**

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

**5. Time Breakdown**

00:00 – 01:15 Mechanical repairs on rig.  
01:55 – 12:50 Several attempts to cut the casing and make it mobile.  
12:50 – 21:30 Run casing, ream the hole and flush.  
21:30 - 24:00 Partially trip out the casing and may have struck the CHD so recover CHD to examine

**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>	22.75
<b>Technical downtime</b>	1.25
<b>Weather downtime</b>	0
<b>Other downtime (specify)</b>	0

## **7. Weather**

Winds at 8 kts from the east at 11:00. Wave heights less than 1m. Visibility much improved with less fog. Max visibility to horizon.

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

Recover casing & deploy the SCIMPI.

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

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

Reminder to X501 team to use sunscreen and stay hydrated in hot weather.

## 10. Photo of the day



Figure 1: Drillers Huey and Arcey checking the CHD. STEWART@ECORD\_IODP3\_NSF.