



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



**28<sup>th</sup> July 00:00 – 28<sup>th</sup> July 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.618333°N, 70.136972°W @12:00 EDT 18th July  
IODP-MSP borehole M0113A  
Prospectus borehole MV-04C-A  
Water Depth: 53.9m

**2. Operations Report**

Today started as yesterday ended; operations were suspended to allow a lightning storm to pass. The remainder of the day was used to progress the borehole using the HPC & ALN core barrels.

**3. Science Report**

28 sets of samples were taken for microbiology, physical properties, micropaleontology and geochemistry. 31 sections were run on the MSCL, a total of 23.97 m.

**4. Core Recovery**

<b>Hole</b>	M0113A
<b>Cores recovered</b>	26
<b>Drilled length (Coring, m)</b>	30.75 m
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	25.75 m
<b>Recovery (%)</b>	83.74 %
<b>Depth at midnight (mbsf)</b>	308.49 m

**5. Time Breakdown**

00:00 – 01:30 Clear deck for passing lightning storm.  
01:30 – 24:00 Advance the borehole using the HPC & ALN core barrels.

**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**

Just awful. Hot and very humid all day. Winds were generally light , 7 to 11 kt from the south throughout the day, with swell of < 1 m from the east south-east. Visibility was poor, with fog shrouding the vessel throughout the day, relenting briefly in the early evening, but closing in again at sunset.

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

Continue coring using the Hydraulic Piston Corer (HPC) and Alien assembly (ALN) and prepare to commence downhole logging operations.

**9. Health and Safety and Environmental**

A Leach's Storm Petrel was found on the main deck in some distress after the heavy rain of the previous night. ESO team member Vera Bender kept it safe until it had dried out and regained strength and was able to fly away.

10. Photo of the day



Figure 1: ESO Outreach Officer, Maïke Rademaker, helping transport cores to the reefer container (photo Brickell@ECORD\_IODP3\_NSF\_Maïke\_core\_28.07).