



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



17th July 00:00 – 17th July 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.618333°N, 70.136972°W @12:00 EDT 17th July
IODP-MSP borehole M0113A
Prospectus borehole MV-04C-A
Water Depth: 53.9m

2. Operations Report

A day of preparation: the casing was washed down to 56.33 mbsf after a short break for a passing lightning storm (and torrential rain). This is essential as the boat's legs are a tall conductor and we do not want anyone injured whilst working on deck. The CHD was tripped out and the casing plug material pressurised into position at 14:30.

3. Science Report

No samples were recovered on the 17th of July. 24.03 m of core were run through the MSCL.

4. Core Recovery

Hole	M0113A
Cores recovered	0
Drilled length (Coring, m)	n/a
Drilled length (Open hole, m)	n/a
Recovered length (m)	n/a
Recovery (%)	n/a
Depth at midnight (mbsf)	57.52

5. Time Breakdown

00:00 – 13:30 Washing casing with a stop for lightning storm.
13:30 – 14:30 Trip out the CHD & flush with fresh water.
13:30 – 14:30 Add casing plug material to the hole and pressurize the string with fresh water.
14:30 – 20:40 Allow plug material to set.
20:40 – 24:00 Washing CHD to the bottom of the hole.

6. Hours (inc. cumulative total) – no contractual implications can be made from these figures

In port	n/a
Transiting	n/a
Operating	25h10m
Technical downtime	0
Weather downtime	50m
Other downtime (specify)	0

7. Weather

Winds at 14 kts from the SSW at 11:00 increasing in the afternoon to 25 kts. Waves between 1 and 1.5m. Heavy rain in the morning and lightning in the vicinity. Clearing after 15:00.

8. Planned Activity for the next 24 hours

Continue coring with HPC/ALN barrels.

9. Health and Safety and Environmental

Operations paused due to lightning in the vicinity for fifty minutes at 07:10. All ESO team notified to stay inside containers or accommodation.

The decks were searched for seabirds at dawn. None were found.

The X501 team were reminded to take care in wet conditions both from weather and while the accommodation block was washed.

10. Photo of the day



Figure 1 Clouds clearing above the port-side crane after morning storms. Bender@ECORD_IODP3_NSF_cloud.