



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



26th June 00:00 – 26th June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.9976°N, 70.3334°W @12:00 EDT 26th of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report

The day started with a round trip of the CHD string to check the main bit which was found to be worn and undersized and so was changed out. The borehole was then advanced using a mix of hydraulic piston corer and alien corer to 251.64 mbsf by midnight. Excellent recovery in both clays and sands was achieved.

3. Science Report

48 samples were taken on the 25th of June for interstitial water, geochemistry, microbiology, and paleontology. 19.28m of core were run through the MSCL.

4. Core Recovery

Hole	M0112A
Cores recovered	21
Drilled length (Coring, m)	31.83
Drilled length (Open hole, m)	n/a
Recovered length (m)	21.14
Recovery (%)	66%
Depth at midnight (mbsf)	251.64

5. Time Breakdown

00:00 – 05:00 Round trip to change the main bit which was found to be worn and undersized.
05:00 – 24:00 Advancing borehole by combination of Alien and Hydraulic Piston corers.

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

In port	n/a
Transiting	n/a
Operating	24
Technical downtime	0
Weather downtime	0
Other downtime (specify)	0

7. Weather

Winds from ENE at 15 kts with gusts up to 25kt at 12:00. Rain on and off in the morning. Fair visibility with low cloud.

8. Planned Activity for the next 24 hours

Continue coring to TD for Hole M0112A.

9. Health and Safety and Environmental

Reminder to take care in high winds and wet conditions.

The decks were searched for stranded seabirds at sunrise. None were found.

10. Photo of the day



Figure 1 Rainclouds at sunset on the 26th. Mowat@ECORD_IODP3_NSF_NIGHT.