



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



23rd June 00:00 – 23rd June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.9976°N, 70.3334°W @12:00 EDT 23rd of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report

The borehole was advanced slowly using a mix of hydraulic piston corer and alien corer. Granular sands have proven difficult to penetrate and recover.

The OSV Gaspee transferred supplies including filters and sampling containers at 12:00.

3. Science Report

27 samples were taken on the 22nd of June for interstitial water, geochemistry, and paleontology. A total of 26.74m of core from Hole M0112A was run through the MSCL.

4. Core Recovery

Hole	M0112A
Cores recovered	25
Drilled length (Coring, m)	30.21
Drilled length (Open hole, m)	4.53
Recovered length (m)	18.3
Recovery (%)	61%
Depth at midnight (mbsf)	133.59

5. Time Breakdown

00:00 – 03:50 Advancing borehole by combination of Alien and Hydraulic Piston corers.
03:50 – 06:30 Recover string to deck to inspect the main coring bit.
06:30 - 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 the west at 10mph at 12:00. Visibility generally good with occasional fog in the morning; visibility to horizon at 12:00. Wave heights around 1m.

8. Planned Activity for the next 24 hours

Continue coring to TD for Hole M0112A.

9. Health and Safety and Environmental

Reminder to use sunscreen and stay hydrated during hot and humid weather.

Updates from ship captain on drill procedures after simulated fire drill on the 22nd.

10. Photo of the day



*Figure 1: Expedition 501 team waiting for core during a day of mixed recovery
(LEBER@ECORD_IODP3_NSF_waiting_for_the_core)*