



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



20th June 00:00 – 20th June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.9976°N, 70.3334°W @12:00 EDT 20th of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report

Today was spent working to create a cutting returns system in the borehole: we completed running the casing over the coring string to 56.42 mbsf and extracted the CHD rods. The hole was cleaned and filled with fresh water before the bentonite plug mixture was pumped down and pressurized and wait for bentonite to swell & harden.

3. Science Report

No cores/samples were taken or processed on the 20th. No MSCL scanning was carried out.

4. Core Recovery

Hole	M0112A
Cores recovered	0
Drilled length (Coring, m)	0
Drilled length (Open hole, m)	0
Recovered length (m)	0
Recovery (%)	0
Depth at midnight (mbsf)	59.61 mbsf

5. Time Breakdown

00:00 - 22:15 Advanced the borehole to a depth of 59.61mbsf.
22:15 - 20:00 Run casing.
20:00 - 21:30 Trip CHD string.
21:30 - 24:00 Add bentonite to drill pipe, pressurize and wait.

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 of 25 to 27 kts with gusts up to 35 kts from the West at 12:00. Significant swell throughout the day with maximum wave height of around 13 ft. Visibility generally poor, clearing somewhat in the evening.

8. Planned Activity for the next 24 hours

Drill through bentonite plug, wash string and continue coring to TD.
Transfer of ESO and ship staff due to arrive via the OSV Gaspee around 05:00 21st of June.

9. Health and Safety and Environmental

No health and safety and environmental issues reported.

10. Photo of the day



Figure 1: Drill string in the foot cramp (WALKER@ECORD_IODP3_NSF_PXL_20250619_131447661)