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

19th June 00:00 – 19th June 24:00 East Daylight Time (UTC -4)

1. Location
Position 40.9976°N, 70.3334°W @12:00 EDT 17th of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report
The borehole was advanced by a combination of HPC and ALN corers through different sand packages until a competent clay zone was reached at approximately 55mbsf. The casing was prepared and commenced running.
The poor weather forecast for wind and high swell forced postponement for 36 hours of a supply boat run and crew change.

3. Science Report
52 sets of samples were taken and analysed from Hole M0112A today for interstitial water geochemistry, micropaleontology, physical properties, noble gas analysis and microbiology. 25 cores were run through the MSCL, totaling 34.89 m.

4. Core Recovery

Hole	M0112A
Cores recovered	23
Drilled length (Coring, m)	32.04 m
Drilled length (Open hole, m)	0
Recovered length (m)	30.59 m
Recovery (%)	95%
Depth at midnight (mbsf)	59.61 m

5. Time Breakdown
00:00 - 22:15   Advanced the borehole to a depth of 59.61mbsf.
22:15 - 24:00   Prepare deck to run casing and commence running casing.

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
A strong southwesterly breeze built over the day from 12 to 20 kt, with sub 1 m swell from the east southeast. The fog remained throughout most of the day, clearing only for 20 minutes in the early afternoon, ensuring visibility stayed at zero.

8. Planned Activity for the next 24 hours
Continue to advance casing over CHD pipe, set and pump bentonite plug material. Advance borehole with Alien corer.

9. Health and Safety and Environmental
Due to windy conditions, extra caution was advised to the team when using stairs .

10. Photo of the day

Figure 1: Homes (photo EVEREST@ECORD_IODP3_NSF_Homes).