



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



15th June 00:00 – 15th June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.8746°N, 70.2697°W @12:00 EDT 8th of June
IODP-MSP borehole M0111C
Prospectus borehole MV-03C
Water Depth: 44m

2. Operations Report

2 sand cores were recovered, the final one containing clay. The water depth in the casing was checked and the packer run in. An inconclusive pump test was curtailed. Several unsuccessful attempts were made to remove the packer and so the string had to be tripped. Sand was found in the BHA and in the base of the first drill rod.

The coring tools were cleaned and the BHA run in again with a low flush rate and slow rotation to avoid damaging the borehole. The depth reached at midnight was 204 mbsf, c. 25 m from the base achieved previously.

3. Science Report

21 samples were taken and analysed on the 15th of June for interstitial water geochemistry, micropaleontology physical properties measurements, noble gas analyses and microbiology. 11 cores were run through the MSCL with a total length of 12.65 m.

4. Core Recovery

Hole	M0111C
Cores recovered	2
Drilled length (Coring, m)	3 m
Drilled length (Open hole, m)	0
Recovered length (m)	0.96 m
Recovery (%)	32%
Depth at midnight (mbsf)	228.36 m

5. Time Breakdown

00:00 - 02:10 Recovered 2 cores.
02:10 - 10:00 Running packers and pump testing.
10:00 - 13:00 Recovering pipe and cleaning
13:00 - 24:00 Running pipe and cleaning borehole

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

Steady breeze of 12 kt from the east northeast, with 1 m southeasterly swell. Visibility was poor with occasional but persistent rain.

8. Planned Activity for the next 24 hours

Run bit to depth previously achieved, reset packer and attempt second pump test.

9. Health and Safety and Environmental

No health and safety issues were raised.

A Leach's Storm Petrel was positively identified on the upper deck in the morning and was released unharmed.

10. Photo of the day



Figure 1: Co Chief Scientists Becky Robinson and Brandon Dugan discuss strategy on the drill floor (photo LEBER@ECORD_IODP3_NSF_pump_test10).