



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



22nd June 00:00 – 22nd June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.9976°N, 70.3334°W @12:00 EDT 22nd of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report

Hole M0112A was advanced using a mix of hydraulic piston corer and alien corer with a successful deployment of microspheres. As expected, recovery was excellent in the clays and poor in sand. A total of 18 cores were retrieved, with a total recovered length of 18.76m.

3. Science Report

47 samples were taken on the 22nd of June for interstitial water, geochemistry, microbiology and paleontology. A total of 21.66 m of core from Hole M0112A was run through the MSCL

4. Core Recovery

Hole	M0112A
Cores recovered	18
Drilled length (Coring, m)	26.14
Drilled length (Open hole, m)	n/a
Recovered length (m)	18.76
Recovery (%)	72%
Depth at midnight (mbsf)	103.38 mbsf

5. Time Breakdown

00:00 - 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 of 25 to 28mph from ENE at 12:00. Wave height around 1m. Visibility good to horizon with low cloud. Occasionally light rain. High winds with gusts of up to 42 mph from around 15:00 to 18:00.

8. Planned Activity for the next 24 hours

Continue coring to TD for Hole M0112A.

9. Health and Safety and Environmental

Reminder of caution during high winds in the afternoon.

A fire drill was held at 18:00 simulating a fire on the bridge.

10. Photo of the day



*Figure 1: EPM Raushan Arnhardt watching the sunrise on the night shift
(WALKER@ECORD_IODP3_NSF_sunrise)*