



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



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

1. Location

Position 40.618333°N, 70.136972°W @12:00 EDT 18th July
IODP-MSP borehole M0113A
Prospectus borehole MV-04C-A
Water Depth: 53.9m

2. Operations Report

Another full day of coring save for a short break due to a lightning storm which passed quickly. The accompanying rain however lasted longer but did not dampen the spirits of the team who continued to forge on under layers of waterproofs.

3. Science Report

41 sets of samples were taken for micropaleontology, sedimentology, microbiology, physical properties and geochemistry. 22 core sections were run on the MSCL with a total length of 21.44 m.

4. Core Recovery

Hole	M0113A
Cores recovered	22
Drilled length (Coring, m)	31.87 m
Drilled length (Open hole, m)	0
Recovered length (m)	15.68 m
Recovery (%)	49.2 %
Depth at midnight (mbsf)	135.99 m

5. Time Breakdown

00:00 – 12:50 Advancing the borehole using HPC & ALN corers.
12:50 – 13:40 Break for adverse weather
13:40 - 24:00 Advancing the borehole using HPC & ALN corers.

6. Hours (inc. cumulative total) – no contractual implications can be made from these figures

In port	n/a
Transiting	n/a
Operating	23.17 hrs
Technical downtime	
Weather downtime	0.83 hrs
Other downtime (specify)	

7. Weather

Mostly awful weather all day. Light winds of around 2 – 4 kts from the SSE with gentle South Easterly swells of c. 1 m. Rain continued throughout most of the day with visibility ranging from 2 nm to 7 nm by the evening as weather began to clear.

8. Planned Activity for the next 24 hours

Continue coring with HPC/ALN barrels.

9. Health and Safety and Environmental

The team were advised to take care of wet and slippery decks and handrails. Work ceased for 50 minutes during a lightning storm.

A search for stranded seabirds was conducted. None were found.

10. Photo of the day



Figure 1: Co Chief Scientist Brandon Dugan, doing a piece to camera for journalists from the Associated Press. (photo BRICKELL@ECORD_IODP3_NSF_Brandon_interview_BTS_20.07).