



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



16th July 00:00 – 16th July 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.618333°N, 70.136972°W @12:00 EDT 16th July
IODP-MSP borehole M0113A
Prospectus borehole MV-04C-A
Water Depth: 53.9m

2. Operations Report

An excellent day of HPC coring with good recoveries in mainly sands and silts. Coring stopped at 22:00 to wash the casing in to 57mbsf.

3. Science Report

78 samples were taken on the 16th of July for geochemistry, microbiology, micropaleontology, noble gas and sedimentology analyses. 44.54 m of core were run through the MSCL.

4. Core Recovery

Hole	M0113A
Cores recovered	32
Drilled length (Coring, m)	41.64
Drilled length (Open hole, m)	n/a
Recovered length (m)	41.64
Recovery (%)	100
Depth at midnight (mbsf)	57.52

5. Time Breakdown

00:00 – 22:00 HPC coring.
22:00 – 24:00 Washing in the 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

Winds at 7 kts from SW at 11:00. Wave heights less than 1m. Clear at daylight but some fog during the day into the evening.

8. Planned Activity for the next 24 hours

Complete washing and setting the casing and continue with HPC/ALN coring.

9. Health and Safety and Environmental

The decks were searched for seabirds at dawn. None were found.

The X501 team were reminded to be aware of changing operations on deck and to stay hydrated and wear sunscreen in hot and humid weather.

10. Photo of the day



*Figure 1 Rachel Bell and Alize Longeau take a sample from a core at Hole M0113A while Graham Tulloch observes.
LeBer@ECORD_IODP3_NSF_sampling.*