



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



12th July 00:00 – 12th July 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.99783°N, 70.33337°W @12:00 EDT 12th July
IODP-MSP borehole M0112B
Prospectus borehole MV-08AB
Water Depth: 41m

2. Operations Report

Coring progressed well if slowly, reaching the depth required for SCIMPI deployment by mid-morning. A single gamma logging run was taken through the pipe in good time and we moved on to trip out the casing. The casing proved difficult to lift initially but we did manage to raise it by 3m or so but then could go no further. Various attempts were made for the rest of the day but by midnight we still did not have any movement.

3. Science Report

20 samples were collected for geochemistry, microbiology, and micropaleontology on the 12th. Logging through casing using the GR tool was completed and data collected. 7.2 m of core were run through the MSCL.

4. Core Recovery

Hole	M0112B
Cores recovered	11
Drilled length (Coring, m)	18
Drilled length (Open hole, m)	n/a
Recovered length (m)	7.2
Recovery (%)	40%
Depth at midnight (mbsf)	339.82

5. Time Breakdown

00:00 – 11:55 Coring using the Alien barrel & flushing borehole.
11:55 – 16:05 Complete the gamma through pipe data acquisition
16:15 – 16:40 Trip out the CHD, change lifting subs, connect to the casing.
16:40 - 24:00 Attempt to trip casing without success.

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

In port	n/a
Transiting	n/a
Operating	22.5
Technical downtime	1.5
Weather downtime	0
Other downtime (specify)	0

7. Weather

Winds at 10 kts from the east at 11:00. Wave heights less than 1m. Visibility mixed with extensive fog (0 nm visibility) clearing occasionally to around 1.5 to 2.75 nm

8. Planned Activity for the next 24 hours

Recover casing & deploy the SCIMPI.

9. Health and Safety and Environmental

Reminder to X501 Team members to be aware of changing deck configurations. Toolbox talk before moving the SCIMPI system.

The vessel was searched for stranded seabirds at sunrise. None were found.

10. Photo of the day



Figure 1 X501 team members, vessel crew and drillers helping to stage the SCIMPI set up on deck before deployment. LEBER@ECORD_IODP3_NSF_SCIMPI2.