



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



14th July 00:00 – 14th July 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.99783°N, 70.33337°W @12:00 EDT 14th July
IODP-MSP borehole M0112B
Prospectus borehole MV-08AB
Water Depth: 41m

2. Operations Report

The CHD was partially recovered to deck to remove damaged sections and run in again. Water was pumped down the CHD to provide better conditions for ground recovery around the SCIMPI. At the same time a toolbox talk was held with all personnel involved to discuss the task of safe deployment of the equipment. Deployment of the SCIMPI took less time than expected due to the earlier preparations and excellent teamwork. The CHD and casing were recovered to deck and we transited to the third location of the expedition at 16:00, arriving to site MV04C at 20:25 when we commenced taking on water and pre-loading.

3. Science Report

Data from the GR logging run on the 12th continued to be processed. The X501 team presented short summaries of the results from Hole M0112B at 12:00 crossover on the 14th. Seawater samples were taken for microbiology and geochemistry on arrival at Site MV04.

4. Core Recovery

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

5. Time Breakdown

00:00 – 07:00 Check CHD and run back to the bottom of the hole. Pumping water.
07:00 – 09:50 Toolbox talk and SCIMPI deployment.
09:50 – 14:00 Trip out CHD & casing.
14:00 – 16:00 Clear & tie down the deck.
16:00 – 20:25 Sail to MV04
20:25 – 24:00 Taking on water and pre-loading.

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

In port	n/a
Transiting	4.41
Operating	19.59
Technical downtime	0
Weather downtime	0
Other downtime (specify)	0

7. Weather

Winds at 6 kts from ESE at 11:00. Wave heights less than 1m. Some fog but clearing through the day. Maximum visibility 6.5 nm.

8. Planned Activity for the next 24 hours

Complete transit to MV04C, carry out water intake, pre-loading etc. and run casing & CHD.

9. Health and Safety and Environmental

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

Protocols for handling SCIMPI system on deck shared with team and observed.

10. Photo of the day



Figure 1 Excellent team effort deploying SCIMPI in Hole M0112B.
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