



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



1st July 00:00 – 1st July 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.99783°N, 70.33337°W @12:00 EDT 1st July
IODP-MSP borehole n/a
Prospectus borehole MV-08AB
Water Depth: 41m

2. Operations Report

Crew change for ship crew completed at 02:00 to/from the OSV Gaspee.

We completed the final housekeeping on the deck to ensure all equipment was secured for the lowering and raising of the boat operations and the short transit to the new location MV-08AB. Preparations were completed safely and in good time, and preloading complete by 17:30. Unfortunately, the weather increased above the safe working limit for running in the casing and so we had to stop operations until it ameliorated sufficiently. The weather came through 24 hours earlier than the usually reliable forecast. Still waiting on weather at 24:00.

3. Science Report

Processing of logging data continued, and the X501 team focused on preparations for pump testing and groundwater sampling at the new location. Both shifts participated in planning meetings to go through workflow and were busy testing equipment and sampling setups. High level discussions were ongoing regarding planned depths for pump testing at the next hole using the data obtained from Hole M0112A.

4. Core Recovery

Hole	n/a
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 – 02:00 Complete deck dismantle and make safe. Complete crew change from/to OSV Gaspee.
02:00 – 02:30 Jack the boat down onto waves
02:30 – 03:25 Transit to next location – MV08AB
03:25 – 17:30 Lower legs and take on 918 tonnes of ballast water and preload
17:30 – 24:00 Waiting on weather

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

In port	n/a
Transiting	0.92
Operating	16.58
Technical downtime	0
Weather downtime	6.5
Other downtime (specify)	0

7. Weather

Winds at 25 kts from the SW at 12:00. Gusts up to 35 kts in the afternoon. Poor visibility with fog and low cloud around 1.5 nm. Wave height 2.2m with swell of up to 3m.

8. Planned Activity for the next 24 hours

Allow weather to drop sufficiently to allow safe running of casing and commence drilling operations at Site MV-08AB per Operational Sequence 18.

9. Health and Safety and Environmental

The upper decks were searched for stranded seabirds at sunrise. None were found.

10. Photo of the day



Figure 1 A rainy view to the working deck while waiting for the vessel to be safely at location. Stewart@ECORD_IODP3_rainy_day.