



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



30th July 00:00 – 30th 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

A good day to end operations on the expedition! A full suite of logging was completed in the morning and the SCIMPI was deployed successfully into the borehole before midnight, hopefully providing long term monitoring capability of aquifer properties. Between this, the drilling crew worked exceptionally well to carry out various trips of CHD drill pipe and PVC casing.

Preparations were made to shut down the containers ready for transit to shore and onward shipping across the Pond.

3. Science Report

The ESO labs were silenced. The curators had hung up their spatulas, geochemists had bottled their last drop, and the petrophysicists had listened to the MSCL hum its last little tune. Only the whine of the logging winch disturbed the peace.

4. Core Recovery

Hole	M0113A
Cores recovered	0
Drilled length (Coring, m)	0
Drilled length (Open hole, m)	0
Recovered length (m)	0
Recovery (%)	0
Depth at midnight (mbsf)	325 m

5. Time Breakdown

00:00 – 09:55 Logging.
08:20 – 12:15 Conditioning the borehole.
09:55 – 11:25 Tripped the PVC pipe and set up the collar lifting sub
11:25 – 11:35 Flushing collars & lifting. Collars came free almost immediately!
11:35 – 15:00 Remove 4 collars
15:00 – 17:00 Switch out collar lifting sub for CHD sub and run in CHD pipe, flush with drilling fluid and then sea water
17:00 – 19:30 Standing-by for SCIMPI repairs
19:30 – 19:50 Flake SCIMPI at the back of the drill deck
19:50 – 20:10 Toolbox and SCIMPI deployment familiarisation
20:10 – 23:15 Deploy the SCIMPI
23:15 – 24:00 Trip out CHD rods

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

In port	n/a
Transiting	n/a
Operating	21.5
Technical downtime	2.5
Weather downtime	0
Other downtime (specify)	0

7. Weather

Another fearsomely hot and humid day. The breeze blew steadily from the SW 12 kt and sea state was low until evening when the wind picked up to c. 16 kt accompanied by a 1 m south-easterly swell. Visibility was good during the day with occasional periods of mist, but closed in over the evening to < 1nm.

8. Planned Activity for the next 24 hours

Complete CHD & Collars recovery. Commence demobilization of all contractors and ESO equipment. Sail for Bridgeport.

9. Health and Safety and Environmental

The hot and humid weather made for extremely uncomfortable and difficult working conditions. The team were reminded to continue to stay hydrated and use sunscreen.

10. Photo of the day



Figure 1: SCIMPI deployment using the main crane (photo TULLOCH@ECORD_IODP3_NSF_SCIMPI3).