



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



28th June 00:00 – 28th June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.9976°N, 70.3334°W @12:00 EDT 26th of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report

The borehole was advanced from 00:00 on the 28th using the alien corer. Recovery was difficult and so short runs were employed to improve core recovered over time. The lithologies proved difficult with exceptionally hard sands interspersed with soft and firm clays. However, recovery was still fair at 67%.

3. Science Report

44 samples were taken during the 28th of June for interstitial water, geochemistry, microbiology, and paleontology. 12.31m of core were run through the MSCL.

4. Core Recovery

Hole	M0112A
Cores recovered	26
Drilled length (Coring, m)	30.05
Drilled length (Open hole, m)	n/a
Recovered length (m)	20.15
Recovery (%)	67
Depth at midnight (mbsf)	324.01

5. Time Breakdown

00:00 – 24:00 Advancing borehole by Alien corer.

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 from the South at 12:00 at 15 kts. Wave heights between 1-2m. Cloudy with some haze, visibility around 6 nm.

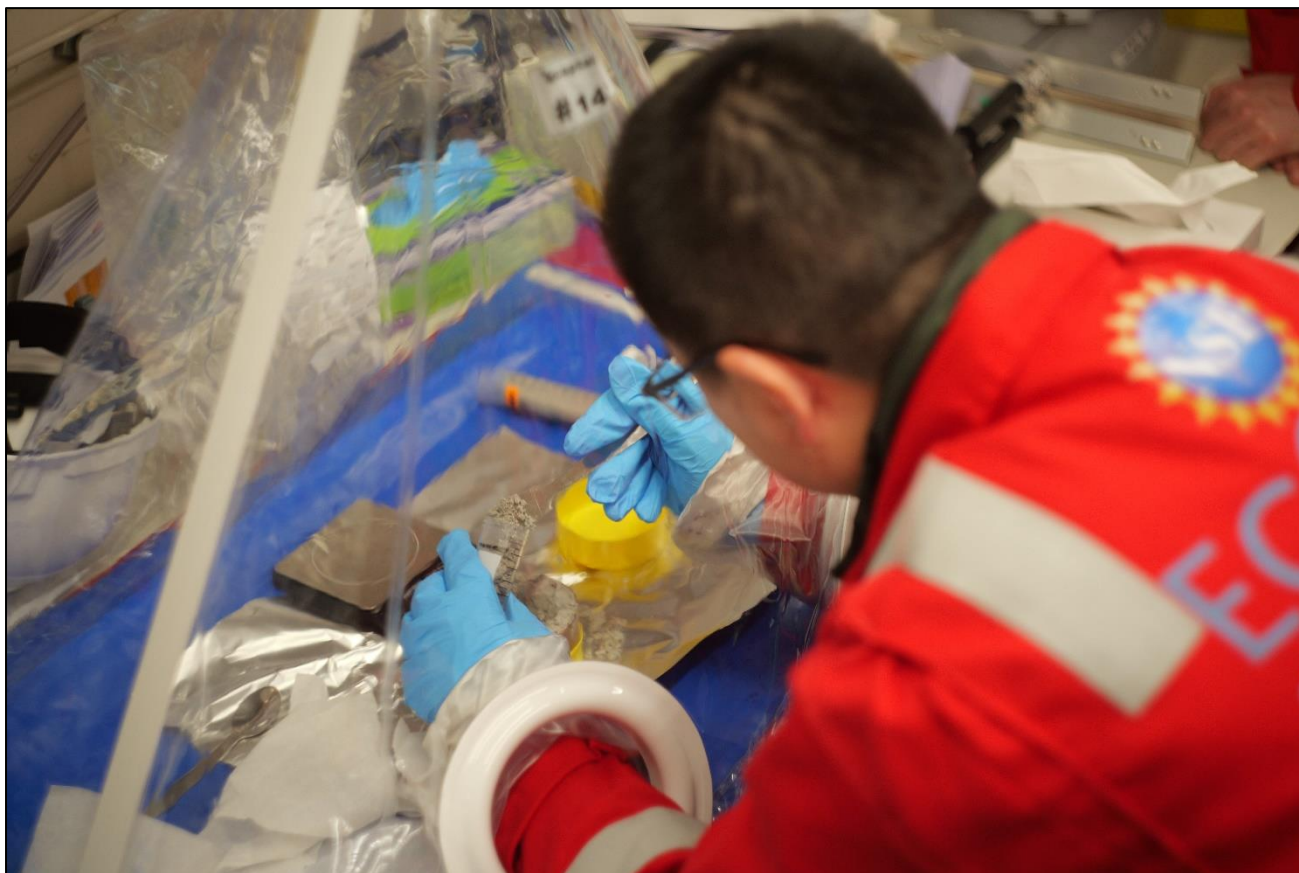
8. Planned Activity for the next 24 hours

Continue coring to TD for Hole M0112A and prepare to deploy the downhole logging suite.

9. Health and Safety and Environmental

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

10. Photo of the day



*Figure 1 Expedition 501 team member Xinxu Zhang taking samples for microbiological analysis in a protective environment.
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