



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



**22<sup>nd</sup> July 00:00 – 22<sup>nd</sup> 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 full day of coring with a wiper trip to condition the borehole. The BHA was also tripped to the deck for inspection and parts replacement to hopefully improve recovery quantity and quality.

**3. Science Report**

45 sets of samples were taken for micropaleontology, sedimentology, microbiology, physical properties and geochemistry. 30 core sections were run on the MSCL with a total length of 17.3 m

**4. Core Recovery**

<b>Hole</b>	M0113A
<b>Cores recovered</b>	25
<b>Drilled length (Coring, m)</b>	40.5 m
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	19.58 m
<b>Recovery (%)</b>	48.3 %
<b>Depth at midnight (mbsf)</b>	209.49 m

**5. Time Breakdown**

00:00 – 24:00 Advancing the borehole using ALN corer.

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

<b>In port</b>	n/a
<b>Transiting</b>	n/a
<b>Operating</b>	24
<b>Technical downtime</b>	0
<b>Weather downtime</b>	0
<b>Other downtime (specify)</b>	0

**7. Weather**

A beautiful day with easterly winds of 7 to 9 kt, gentle southerly swell of <1 m and visibility to the horizon all day.

**8. Planned Activity for the next 24 hours**

Continue coring with ALN barrel.

**9. Health and Safety and Environmental**

A White Faced Storm Petrel was found on the main deck in the early morning. It flew safely away unharmed and happy.

The team were reminded of the ECORD Code of Conduct, and encouraged to use sun protection in the hot weather.

10. Photo of the day

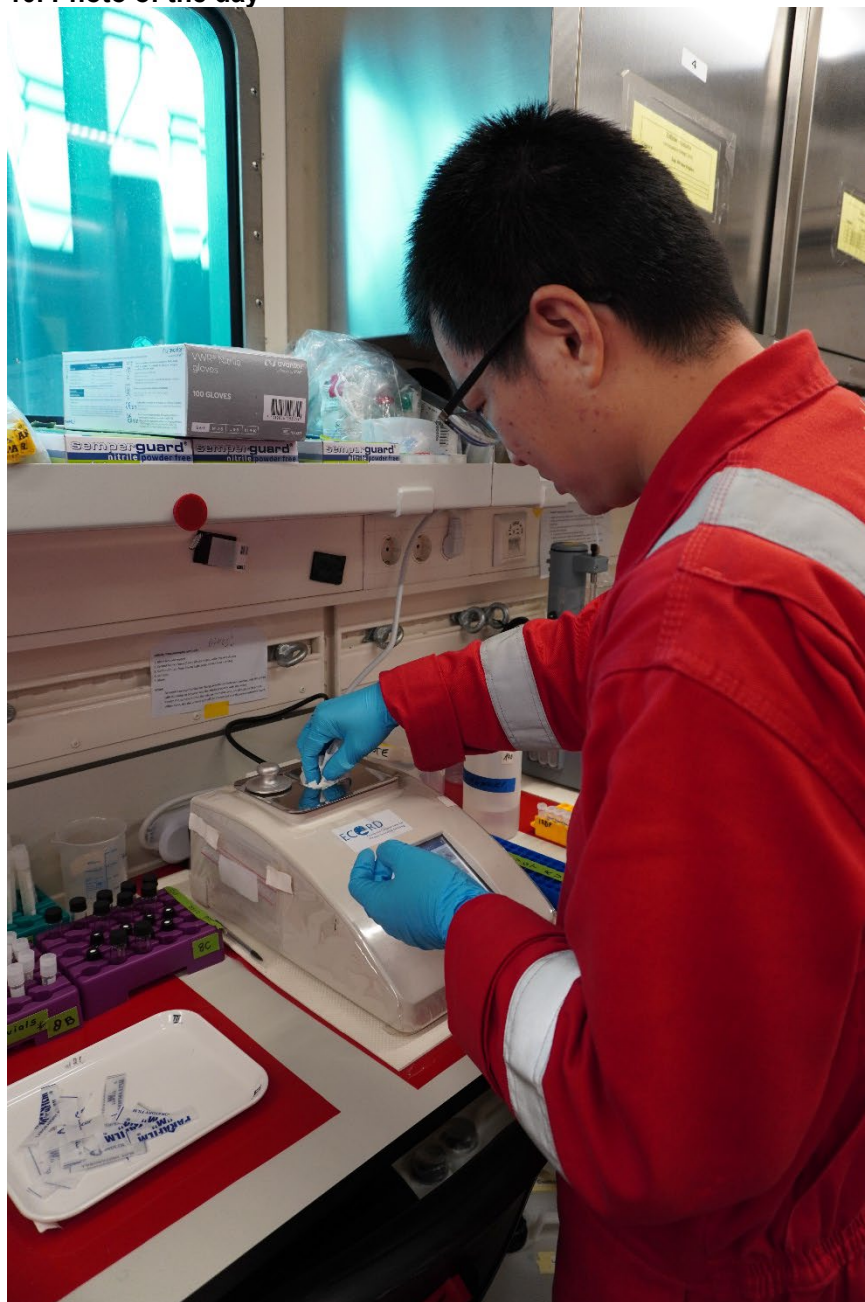


Figure 1: Science Team member Xinxu Zhang measures salinity (photo BRICKELL@ECORD\_IODP3\_NSF\_salinity\_check\_22.07).