



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



**23<sup>rd</sup> July 00:00 – 23<sup>rd</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 round trip of the BHA to inspect the bit and clean the inside of the CHD which had material from a dropped core smeared inside.

**3. Science Report**

A total of 56 sets of samples were taken for micropaleontology, sedimentology, microbiology, physical properties, noble gas analysis and geochemistry. 29 core sections were run through the MSCL, a total of 19.02 m.

**4. Core Recovery**

<b>Hole</b>	M0113A
<b>Cores recovered</b>	22
<b>Drilled length (Coring, m)</b>	28.9 m
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	20.33 m
<b>Recovery (%)</b>	70.3 %
<b>Depth at midnight (mbsf)</b>	237.99 m

**5. Time Breakdown**

00:00 – 12:30 Advancing the borehole using ALN corer.  
12:30 – 16:40 Round trip of CHD.  
16:40 – 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 hot sunny day with gentle south easterly breezes of 6 to 8 kt and calm seas. Visibility stayed clear to the horizon all day.

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

Continue coring with ALN barrel and prepare for possible pump test.

**9. Health and Safety and Environmental**

The team were reminded to use sunscreen and stay hydrated in the hot weather.

#### 10. Photo of the day



*Figure 1: A pod of around 20 Short-beaked Common Dolphins visiting the platform on International Whale and Dolphin Day, celebrated each year to mark the banning of commercial whaling on July the 23<sup>rd</sup> 1986 (photo EVEREST@ECORD\_IODP3\_NSF\_International\_Whale&Dolphin\_Day.jpg)*