



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



**29<sup>th</sup> July 00:00 – 29<sup>th</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**

TD was reached in the borehole this morning and the drilling deck was quickly converted into a logging deck to enable the gamma probe to be run through the CHD string. The hole was flushed with drilling fluid to lift as much of the cuttings from the annulus as possible before replacing drilling mud with seawater and running the PVC pipe. The CHD was tripped out to deck, the logging deck replaced and logging recommenced, continuing past midnight.

**3. Science Report**

35 sets of samples were taken for physical properties measurements, micropaleontology, microbiology, geochemistry and noble gas analysis. 34 core sections were run through the MSCL, a total of 19.28 m.

**4. Core Recovery**

<b>Hole</b>	M0113A
<b>Cores recovered</b>	10
<b>Drilled length (Coring, m)</b>	16.51 m
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	12.72 m
<b>Recovery (%)</b>	77 %
<b>Depth at midnight (mbsf)</b>	325 m

**5. Time Breakdown**

00:00 – 08:20 Advance the borehole using the HPC & ALN core barrels.  
08:20 – 12:15 Conditioning the borehole.  
12:15 – 17:45 Running gamma logger through the CHD  
17:45 – 19:15 Conditioning the borehole.  
19:15 - 21:35 Run pvc pipe & trip out CHD  
21:35 – 24:00 Set up for logging and commence logging

**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**

Another hot and humid day with a breeze of 5 to 10 kt from the south west, and negligible swell. Visibility remained clear to horizon for most of the day with haze developing at times.

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

Complete logging and set up to deploy the SCIMPI

## 9. Health and Safety and Environmental

The team were reminded to take care with changing operations on deck, and stay hydrated in the hot weather.

## 10. Photo of the day



*Figure 1: The final core from the final Hole! From left to right the Boart Longyear team Chris Redding (Helper), Co Chief Brandon Dugan, Chandler Maine (Supervisor), Nick Boehne (Driller) and Lalo Aguilar (Helper) (photo EVEREST@ECORD\_IODP3\_NSF\_Last\_Core).*