



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



**13<sup>th</sup> June 00:00 – 13<sup>th</sup> June 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.8746°N, 70.2697°W @12:00 EDT 8th of June  
IODP-MSP borehole M0111C  
Prospectus borehole MV-03C  
Water Depth: 44m

**2. Operations Report**

All water sampling was completed, the pump and packer were extracted from the borehole. This latter took some time as the packer did not deflate fully and was caught in the bit. The process of displacing the water from the borehole with drilling fluid was begun, in order to condition the hole ready for coring to recommence.

**3. Science Report**

12 samples were taken during the day for noble gas analysis. 8 sediment cores were run on the MSCL with a total length of 21.7 m.

**4. Core Recovery**

<b>Hole</b>	M0111C
<b>Cores recovered</b>	0
<b>Drilled length (Coring, m)</b>	0
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	0
<b>Recovery (%)</b>	0
<b>Depth at midnight (mbsf)</b>	163.89

**5. Time Breakdown**

00:00 - 19:10 Noble gas sampling.  
19:10 - 23:40 Recover the pump and packer from the borehole.  
23:40 - 24:00 Displace the sea water in the borehole with drilling fluid and condition the hole.

**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**

East south-easterly winds of around 16 kt prevailed throughout the day, with 1 to 1.5 m southeasterly swells. Visibility was clear to the horizon with clear skies.

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

Spot coring will continue to achieve the depth for the next groundwater pumping test.

**9. Health and Safety and Environmental**

No Health and safety and environmental issues recorded.  
The ship's decks were checked for stranded seabirds. None were found.

10. Photo of the day

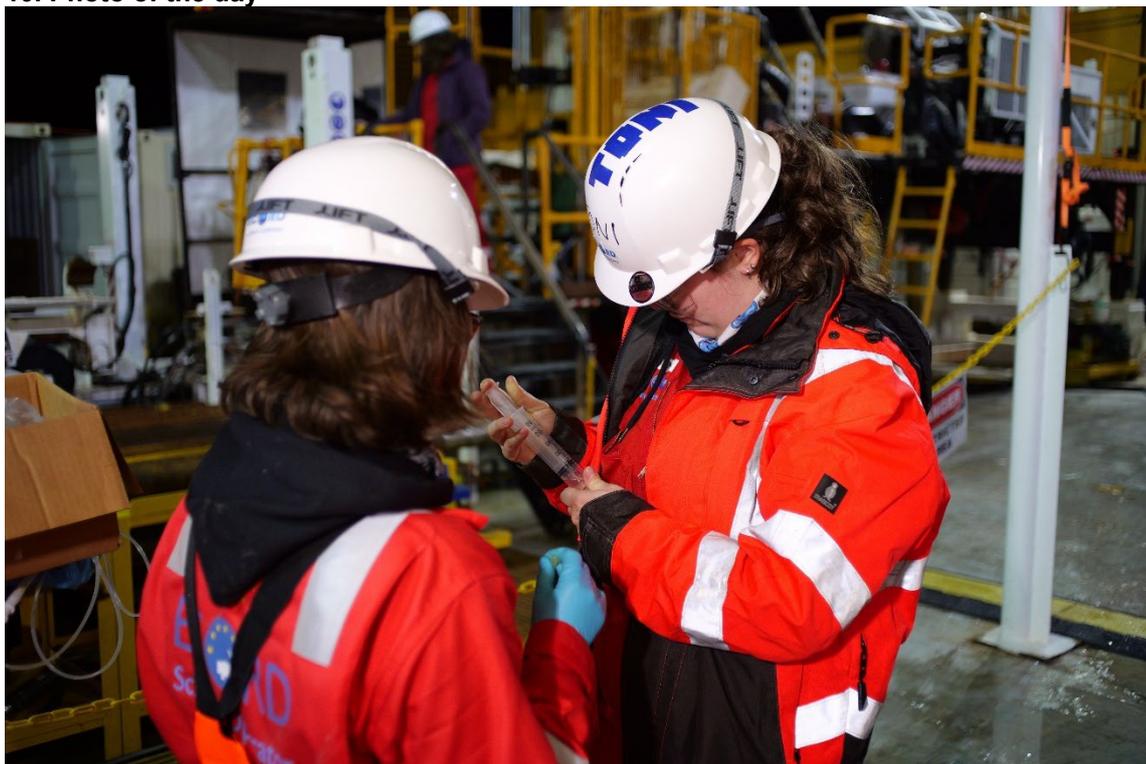


Figure 1. Water sampling during the pump test. (LEBER@ECORD\_IODP3\_NSF\_water\_sample)