



19th July 00:00 - 19th 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

Following the washing down to the bottom of the casing and drilling through the plug there was a full day of coring using both the hydraulic piston corer (HPC) and Alien (ALN) core barrels. A total of 14 cores were recovered, 8 with the HPC and 6 with the ALN corer, with a total drilled length of 22.35 m and 20.06 m recovered.

The successful transfer of 10 ESO staff and scientists off and 9 on including two journalists from the Associated Press was also carried out between 1630 and 1800hrs.

3. Science Report

A total of 34 sets of samples were taken for micropaleontology, sedimentology, microbiology, physical properties and geochemistry. 8 cores were run through the MSCL, a total of 9.98 m.

4. Core Recovery

Hole	M0113A
Cores recovered	14
Drilled length (Coring, m)	22.35 m
Drilled length (Open hole, m)	0
Recovered length (m)	20.06 m
Recovery (%)	89.8%
Depth at midnight (mbsf)	105.03 m

5. Time Breakdown

00:00 – 08:30 Washing down to bottom of borehole, taking HPC cores to determine the end of the plug/start of new ground.

08:30 - 24:00 Advancing the borehole using HPC & ALN corers

16:30 – 18:00 Transfer of staff for the start of Rotation 9

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	
Weather downtime	
Other downtime (specify)	

7. Weather

Excellent sunny weather all day with winds at 4 kts from the South at 11:00, and swell less than 1 m. Visibility good at 9.75 nm.

8. Planned Activity for the next 24 hours

Continue coring with HPC/ALN barrels.

9. Health and Safety and Environmental

The decks were searched for seabirds at dawn. None were found.

The X501 team were reminded to stay hydrated and wear sunscreen in hot conditions.

10. Photo of the day

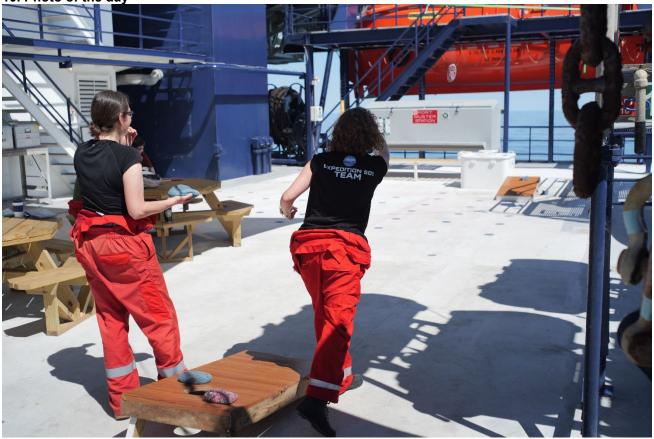


Figure 1: ESO team members Rachel Bell and Margaret Stewart enjoying a break in the sun playing Cornhole on deck (photo LEBER@ECORD_IODP3_NSF_cornhole (2)).