

29th Apr 00:00 - 24:00 CDT (UTC -5)

1. Location

Position 21 Deg 27.009' N, 89 Deg 56.962' W
IODP-MSP borehole M0077A
Prospectus borehole Chix-03B
Water Depth: 19.8 m

2. Operations Report

Continued coring recovering 2 cores before the drilling parameters indicated the bit was not cutting efficiently. The pipe was tripped and the bit changed. After running in pipe, coring recommenced and a core was recovered before the end of the day.

3. Science Report

Coring into polymict lithic breccias continues with some evidence of basement clasts now present. At Core 60R a ~30 cm altered zone with an orange red mineral was observed and smear slides from this interval showed there are a large range of minerals present with the most abundant being clear and fibrous in structure. Increasing clast sizes with some up to several cm in width and evidence of a few basement clasts. Microbiology sampling continued every 9 m and MSCL data show increasing magnetic susceptibility.

4. Core Recovery Details

| | |
|-------------------------------|--------|
| Hole | M0077A |
| Cores recovered | 3 |
| Drilled length (Coring, m) | 7.35 |
| Drilled length (Open hole, m) | 0 |
| Recovered length (m) | 7.21 |
| Recovery (%) | 98 |
| Depth at midnight (mbsf) | 681.54 |

5. Time Breakdown

00:00 Continue coring
02:15 Core on deck
03:50 Core on deck
05:00 Start tripping pipe
15:00 Finish tripping pipe, change bit
16:40 Start running in pipe
23:00 Start coring
23:55 Core on deck

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

| | |
|--------------------------|------|
| In port | 13.0 |
| Transiting | 3.0 |
| Operating | 468 |
| Technical downtime | 117 |
| Weather downtime | 0.0 |
| Other downtime (specify) | 0.0 |

7. Weather

Fair, sunny, good visibility, wave heights of 0.5 – 0.8 m; wind NE 15 Kts, Temperature 21-30°C.

8. Planned Activity for the next 24 hours

Continue coring.

9. Health and Safety and Environmental

N/A

10. Photo of the day



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