

**Daily Drilling and Scientific Report for IODP/ICDP Expedition 364
Chicxulub Impact Crater 2016**



26th May 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

Coring continued from the previous day, with the final core of the expedition being brought on deck in the early hours of the morning. The 2 cores collected were of excellent quality and 100% recovery was achieved, with a final expedition hole depth of 1334.69 mbsf, having advanced the hole by 6.20 m since midnight. Following this, the hole was flushed with water and pipe was pulled in preparation for the downhole logging activities. Downhole logging activities commenced and proceeded throughout the day.

3. Science Report

During the day wireline logging tools were run from the bottom of the hole (1334.68 mbsf) to ~940 mbsf. Initially, the electrical resistivity tool was run, followed by a tool string comprising the gamma ray, sonic and borehole fluid probes. The acoustic borehole images, caliper and spectral gamma ray logs were successively acquired. All data are of good quality. Borehole images allow to image the faults in the formation and provide their orientation with respect to the magnetic north.

4. Core Recovery Details

Hole	M0077A
Cores recovered	2
Drilled length (Coring, m)	6.20
Drilled length (Open hole, m)	0
Recovered length (m)	6.33
Recovery (%)	100
Depth at midnight (mbsf)	1334.69

5. Time Breakdown

00:00 Continue coring
00:55 Core on deck
02:35 Core on deck
02:35 Flushing hole
05:00 Pulling pipe
06:15 Preparing for downhole logging
07:40 Running resistivity tool
09:50 Running spectral gamma ray, sonic & FTC
13:50 Running induction & magnetic susceptibility
16:20 Running spectral gamma ray caliper & acoustic imager
23:23 Running spectral gamma ray caliper & optical imager
24:00 Continue downhole logging activities

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

In port	13.0
Transiting	3.0
Operating	942
Technical downtime	123
Weather downtime	0.0
Other downtime (specify)	0.0

7. Weather

Fair, cloudy, humid, wave heights of 0.5 – 0.8 m; wind E 15 Kts, Temperature 27-34°C.

8. Planned Activity for the next 24 hours

Continue with logging activities and Vertical Seismic Profiling (VSP).

9. Health and Safety and Environmental

N/A

10. Photo of the day



Image: GCarter©ECORD_IODP