

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



25th 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. Science Report

Cores are being identified through the liner as laminated marlstone with infrequent but sometimes large ash layers. Coring started at 506 mbsf and we are within the early Eocene based on nannofossils and foraminifera. Preservation for microfossils varies from moderate to very poor. No interstitial water samples have been possible. Microbiology sampling continues with a half-sized sample (2 cm) every 3 m and full-sized (4 cm) every 9 m.

3. Core Recovery Details

Hole	M0077A
Cores recovered	8
Drilled length (Coring, m)	24
Drilled length (Open hole, m)	506
Recovered length (m)	24
Recovery (%)	100
Depth at midnight (mbsf)	546

4. Time Breakdown

00:00 Continue coring
00:15 Crew vessel arrives to deliver supplies
01:40 Core on deck, carry out essential maintenance of the rig
05:30 Start coring
07:15 Core on deck
09:15 Core on deck, carry out essential maintenance of the rig
12:10 Start Coring
14:00 Core on deck
16:10 Core on deck
18:30 Core on deck
22:00 Core on deck
23:55 Core on deck

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

In port	13.0
Transiting	3.0
Operating	372
Technical downtime	117
Weather downtime	0.0
Other downtime (specify)	0.0

6. Weather

Fair, sunny, good visibility, wave heights of 0.3 – 0.5 m; wind NE 15 Kts, Temperature 24-31°C.

7. Planned Activity for the next 24 hours

Continue coring.

8. Health and Safety and Environmental

N/A

9. Photo of the day



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