

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



6th 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 throughout the day, with a total of 9 cores recovered. Recovery and quality of core was very high, almost 100%.

3. Science Report

The ~21 m of core recovered today were all of excellent quality. Large dark melt clasts, in places 10s of centimeters long, were observed interspersed with melt-bearing breccia with both sedimentary and igneous clasts. Multi-sensor core logger shows some high magnetic susceptibility intervals. The lowermost melt looks different: a turbulent mixture of two melt types (black melt and green calcareous matrix).

4. Core Recovery Details

Hole	M0077A
Cores recovered	9
Drilled length (Coring, m)	21.35
Drilled length (Open hole, m)	0
Recovered length (m)	22.06
Recovery (%)	100.00
Depth at midnight (mbsf)	728.69

5. Time Breakdown

00:00 Continue coring
03:34 Core on deck
05:35 Core on deck
07:15 Core on deck
09:40 Core on deck
11:15 Core on deck
15:00 Core on deck
17:55 Core on deck
20:40 Core on deck
23:25 Core on deck
00:00 Continue coring

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

In port	13.0
Transiting	3.0
Operating	491
Technical downtime	121
Weather downtime	0.0
Other downtime (specify)	0.0

7. Weather

Fair, partially cloudy, good visibility, wave heights of 0.3 – 0.5 m; wind NW 15 Kts, Temperature 21-28°C.

8. Planned Activity for the next 24 hours

Continue coring.

9. Health and Safety and Environmental
N/A

10. Photo of the day



Image: JLOfi©ECORD_IODP.