

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



23<sup>rd</sup> 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 and progressed uninterrupted throughout the day. Cores were of excellent quality and 100% recovery was achieved. The day ended at a depth of 1255.54 mbsf, having advanced the hole by 40.30 m.

**3. Science Report**

Continued in granite for most of the day, and ended in a complicated sequence of melt and melt breccia. The physical properties of this melt sequence are different to previous ones.

**4. Core Recovery Details**

Hole	M0077A
Cores recovered	13
Drilled length (Coring, m)	40.30
Drilled length (Open hole, m)	0
Recovered length (m)	41.00
Recovery (%)	101.74
Depth at midnight (mbsf)	1255.54

**5. Time Breakdown**

00:00 Continue coring  
01:30 Core on deck  
03:10 Core on deck  
04:35 Core on deck  
06:20 Core on deck  
07:40 Core on deck  
09:05 Core on deck  
10:30 Core on deck  
11:55 Core on deck  
14:15 Core on deck  
16:00 Core on deck  
17:45 Core on deck  
20:00 Core on deck  
22:05 Core on deck  
24:00 Continue coring

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

In port	13.0
Transiting	3.0
Operating	870
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 coring.

**9. Health and Safety and Environmental**

N/A

**10. Photo of the day**



Image: ELeBer©ECORD\_IODP