

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



21st 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 without any stoppages. Cores were of excellent quality and 100% recovery was achieved. The day ended at a depth of 1166.19 mbsf, having drilled 44.50 m of core.

3. Science Report

We continued in granite, one core had an interesting dike that was filled with fine-grained crystals, and some occasional large mafic clasts. Also cored a few small dikes of various compositions and appearances, with subtle changes in physical properties.

4. Core Recovery Details

Hole	M0077A
Cores recovered	15
Drilled length (Coring, m)	44.50
Drilled length (Open hole, m)	0
Recovered length (m)	45.69
Recovery (%)	100
Depth at midnight (mbsf)	1166.19

5. Time Breakdown

00:00 Continue coring
01:30 Core on deck
03:10 Core on deck
04:55 Core on deck
07:00 Core on deck
08:35 Core on deck
10:15 Core on deck
11:45 Core on deck
13:10 Core on deck
14:40 Core on deck
15:40 Core on deck
17:30 Core on deck
19:10 Core on deck
20:40 Core on deck
22:10 Core on deck
23:45 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	847
Technical downtime	122
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 25-32°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: JLofti©ECORD_IDDP