

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



12th 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 initially progressed slowly. Four cores were recovered during the morning shift and a further three during the afternoon. The cores continued to be of a high quality and 100% recovery.

3. Science Report

A piece of core in the core catcher showed a fracture through a vein with ~30 cm offset – see image of the core catcher in core number 128. Coring into fractured granite continued throughout the day until Core 134 where we encountered two zones of clast-free porphyritic melt rock.

4. Core Recovery Details

Hole	M0077A
Cores recovered	7
Drilled length (Coring, m)	17.30
Drilled length (Open hole, m)	0
Recovered length (m)	17.47
Recovery (%)	100
Depth at midnight (mbsf)	847.54

5. Time Breakdown

00:00 Continue coring
03:10 Core on deck
06:25 Core on deck
09:20 Core on deck
11:55 Core on deck
14:35 Core on deck
17:05 Core on deck
20:25 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	633
Technical downtime	121
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_IODP