

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



13th 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. During coring of 136R, the barrel became blocked and the run was recovered early. The drill string was tripped to change the bit. Coring commenced during late afternoon collecting short (0.4-0.7 m) cores recovered in difficult coring conditions. Coring conditions improved and the final two cores of the day (140R and 141R) were recovered following full runs, measuring 3.10 m each.

3. Science Report

Today we recovered a mix of granite and melt. The melt has hard to drill, and the granite recovered below the melt came back in fragments. Drilling problems continued – not least due to the large difference in physical properties between the softer granite and harder melt.

4. Core Recovery Details

Hole	M0077A
Cores recovered	7
Drilled length (Coring, m)	12.00
Drilled length (Open hole, m)	0
Recovered length (m)	12.16
Recovery (%)	100
Depth at midnight (mbsf)	859.54

5. Time Breakdown

00:00 Continue coring
00:30 Core on deck
01:50 Core on deck
04:00 Tripping out
08:00 Change bit and reamer
08:45 Tripping in
12:30 Continue coring
15:05 Core on deck
16:45 Core on deck
18:05 Core on deck
21:35 Core on deck
23:55 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	656
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_IODP