

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



8th 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. The recovery and quality of core remained high. The only exception was during core 99R when the bit became blocked and as a result, a short run was recovered. Coring resumed with excellent recovery rates and high quality cores collected. A total of 11 cores were collected, advancing the hole to 783.59 mbsf.

3. Science Report

Core 98R marked the end of the large granitic clast; the lowermost core comprised clast-poor impact melt with small clasts of basement. Core 100R had impact melt at the top and granite at the bottom, with clasts of granite within impact melt in the middle. Cores 101R-108R continued to be largely granitic but with melt intervals separating the large blocks. Microbiology sampling for the day focused on the granitic blocks. Magnetic susceptibility reduced in the blocks relative to the melts.

4. Core Recovery Details

| | |
|-------------------------------|--------|
| Hole | M0077A |
| Cores recovered | 11 |
| Drilled length (Coring, m) | 30.50 |
| Drilled length (Open hole, m) | 0 |
| Recovered length (m) | 31.35 |
| Recovery (%) | 100.00 |
| Depth at midnight (mbsf) | 783.59 |

5. Time Breakdown

00:00 Continue coring
00:55 Core on deck
02:50 Core on deck
04:55 Core on deck
07:55 Core on deck
09:55 Core on deck
12:00 Core on deck
13:55 Core on deck
16:10 Core on deck
18:35 Core on deck
21:00 Core on deck
23:20 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 | 539 |
| Technical downtime | 121 |
| Weather downtime | 0.0 |
| Other downtime (specify) | 0.0 |

7. Weather

Fair, clear, good visibility, wave heights of 0.3 – 0.5 m; wind NW 10 Kts, Temperature 21-30°C.

8. Planned Activity for the next 24 hours

Continue coring.

9. Health and Safety and Environmental

N/A

10. Photo of the day

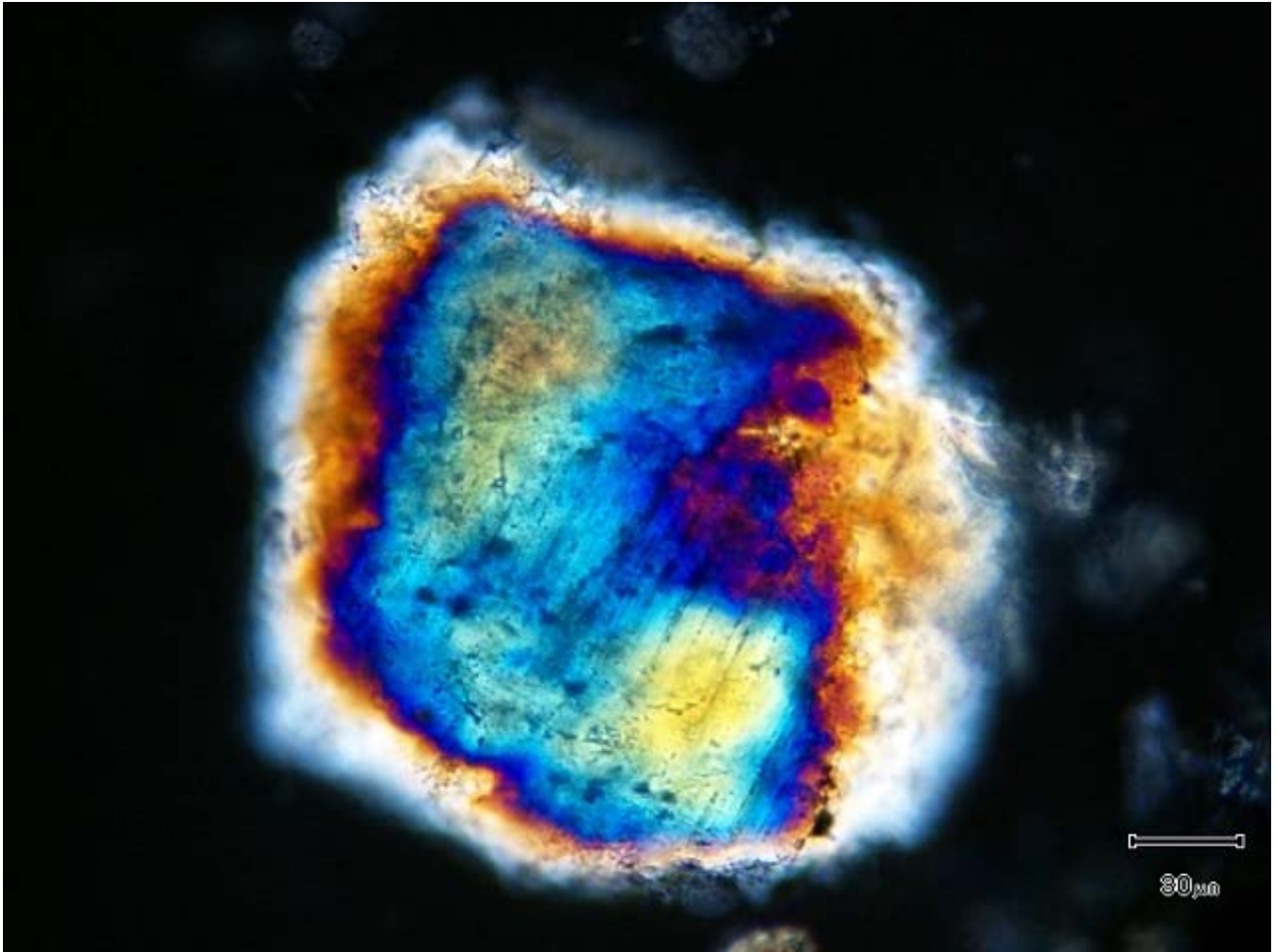


Image: M Poelchau ©ECORD_IODP.