

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



14th Apr 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-03A
Water Depth: 19.8 m

2. Science Report

Members of the science party arrive onboard the L/B Myrtle and underwent safety training and lab container tours. Logging operations commenced. The tool ran initially was the electrical resistivity where it was observed that the upper 428 mWSF had surprisingly low resistivity values. In order to allow vertical seismic profile (VSP) operations to start during daylight hours, the acoustic borehole imager and natural gamma ray only were run to 165 mWSF. The VSP tool was lowered to the base of the 503 mbsf hole; the VSP was run at a high-resolution and of excellent quality.

3. Core Recovery Details

Hole	M0077A
Cores recovered	N/A
Drilled length (Coring, m)	N/A
Drilled length (Open hole, m)	503
Recovered length (m)	N/A
Recovery (%)	N/A
Depth at midnight (mbsf)	503

4. Time Breakdown

00:00 POOH
08:55 Crew boat left Progreso
09:00 Mammal observing
09:55 Test fire air gun
10:15 Crew vessel arrive and staff transferred
13:00 Wireline logging commenced
13:50 Marine mammal observing
16:10 Wireline logging complete
16:40 VSP survey commenced
23:30 VSP survey complete
24:00 Recovering wireline from hole

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

In port	13.0
Transiting	3.0
Operating	223.0
Technical downtime	1.0
Weather downtime	0.0
Other downtime (specify)	0.0

6. Weather

Fair, sunny, good visibility, wave heights of 0.3 – 0.5 m; winds variable NE 15 kts, Temperature 21-30°C.

7. Planned Activity for the next 24 hours

Continue with downhole logging, run casing to 500 m, setup for coring.

8. Health and Safety and Environmental

N/A

9. Photo of the day



Photograph by Chris Lowery © ECORD/IODP
Scientists transfer to the *L/B Myrtle* via a Billy Pugh