

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



**26th 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-03B  
Water Depth: 19.8 m

**2. Science Report**

Lithology is still marlstone. However, in some intervals there is evidence of increased presence of chert, and in some cores, evidence of gravity flows with erosional bases. Cores are within the early Eocene (early CP12 to CP10, 49.5-52.5 Ma approx. from nannofossils). Plantic foraminifera indicate zone E5 which is also Early Eocene. Plantic assemblage stays fairly constant; benthics are rare and often absent. Early Eocene section appears to be expanded. Microbiological sampling continues but interstitial water not being taken due to induration.

**3. Core Recovery Details**

<b>Hole</b>	M0077A
<b>Cores recovered</b>	15
<b>Drilled length (Coring, m)</b>	46
<b>Drilled length (Open hole, m)</b>	0
<b>Recovered length (m)</b>	46
<b>Recovery (%)</b>	100
<b>Depth at midnight (mbsf)</b>	592

**4. Time Breakdown**

00:00 Continue coring  
01:30 Core on deck  
02:55 Core on deck  
04:15 Core on deck  
05:30 Core on deck  
07:05 Core on deck  
08:25 Core on deck  
09:55 Core on deck  
11:20 Core on deck  
12:55 Core on deck  
14:15 Core on deck  
16:00 Crew vessel arrives to deliver supplies  
16:10 Core on deck  
17:50 Core on deck  
19:30 Core on deck  
21:10 Core on deck  
23:00 Core on deck

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

<b>In port</b>	13.0
<b>Transiting</b>	3.0
<b>Operating</b>	396
<b>Technical downtime</b>	117
<b>Weather downtime</b>	0.0
<b>Other downtime (specify)</b>	0.0

**6. Weather**

Fair, sunny, good visibility, wave heights of 0.3 – 0.5 m; wind NE 15 Kts, Temperature 24-31°C.

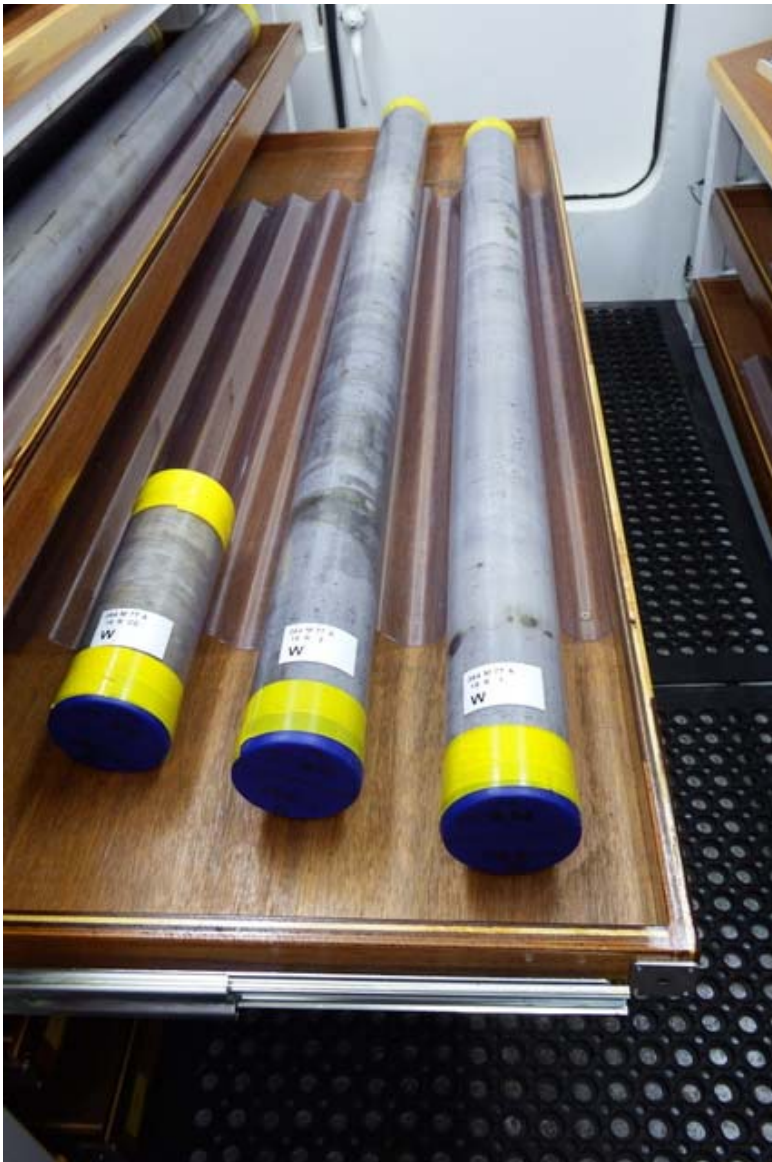
**7. Planned Activity for the next 24 hours**

Continue coring.

**8. Health and Safety and Environmental**

N/A

**9. Photo of the day**



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