

**Daily Drilling and Scientific Report for IODP Expedition 357  
Atlantis Massif Serpentinization and Life, 2015**



**18<sup>th</sup> Nov 00:00 - 24:00 Local Time (-2 GMT)**

**1. Location**

30° 7.719' N 42° 9.185' W  
IODP-MSP M0071B  
Prospectus borehole AM-04A  
Water Depth: 1390m

**2. Science Report**

Multibeam surveys of the eastern portion of the Atlantis Massif continued through the morning as rock drills were made ready for deployment, followed by deployment of the RD2 rock drill at Hole M0071B (proposal site AM-04). By the end of the day, one core had been cut. The science party completed shipboard ephemeral contamination tracer and geochemical analyses, microbiological sample preparation, and preliminary visual core description of samples from Hole M0076B, and analysis began of the through-pipe optical acoustic gamma ray logging tool data from Hole M0076B.

**3. Core Recovery Details**

N/A

**4. Weather**

Wind Variable to SSW, initially light but building to a steady 26 knots. Mid evening there was a squall accompanied by lightning and sudden gusts up to 40 knots with heavy rain. Otherwise generally fine and clear with occasional rain showers and good visibility. Long low swell increasing to ~3m by evening. Maximum temperature of 24.5°C.

Next 24 hours: Freshening winds as a low pressure develops in the vicinity. Possibility of squalls and rain.

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

Continue coring operations at site AM-04A (M0071B).

**6. Health and Safety and Environmental**

Experienced a couple of squalls whilst coring with winds suddenly gusting up to 40 knots. Vessel held position well and coring operations were not interrupted.

**7. Photos of the day**



