

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



22nd Nov 00:00 - 24:00 Local Time (-2 GMT)

1. Location

30° 8.544' N 42° 8.194' W
IODP-MSP: M0070C
Prospectus borehole: AM-07A
Water Depth: 1140.5m

2. Science Report

While waiting on weather, the ship returned to the Atlantis Massif area and commenced multibeam surveys over the southern wall of the Massif as well as east of the Mid-Atlantic Ridge. By mid-afternoon, the sea state was low enough to allow a launch of the MeBo rock drill at Hole M0070C (proposal site AM-07). The rock drill sensor package recorded notable correlated changes in methane, oxidation reduction potential and temperature at several intervals. By the end of the day, MeBo had completed 2 core runs and penetrated 2.73m.

3. Core Recovery Details

N/A

4. Weather

Wind SE 12 - 20 becoming variable light airs. Fine and dry with 3/8 cloud cover. Slight sea but moderate confused swell (>4.5) dropping by late evening to ~1m although still from two directions. Maximum temperature 25.1°C.

Next 24 hours: Wind and swell continuing to drop. Possible rain showers.

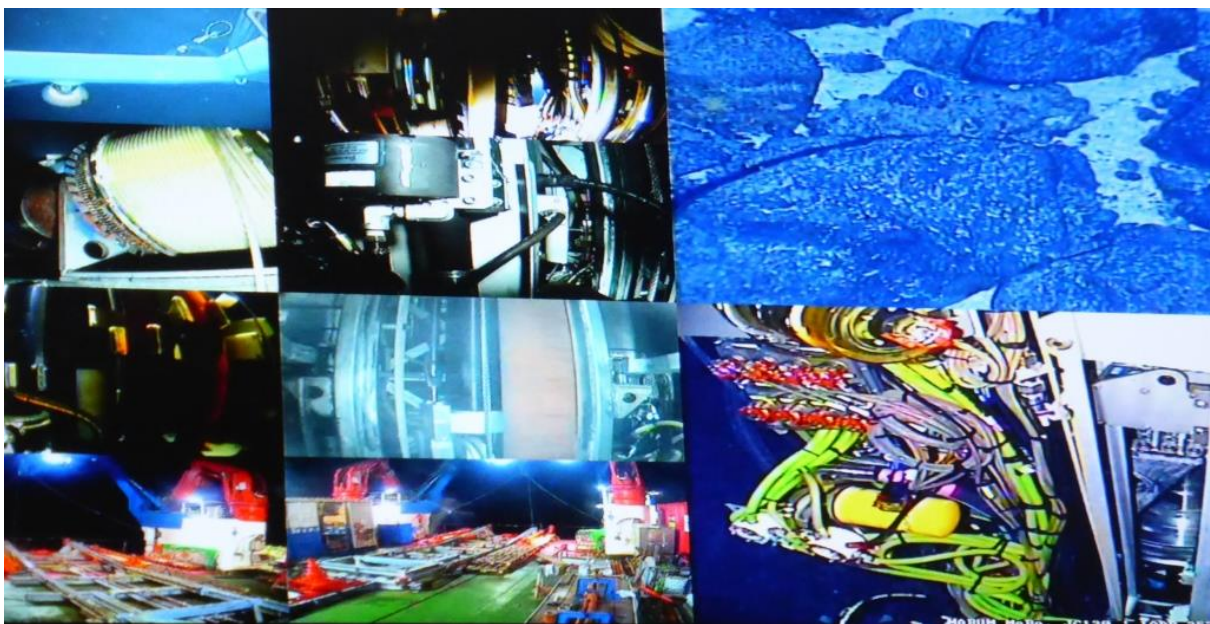
5. Planned Activity for the next 24 hours

Continue coring operations at AM-07A (M0070C)

6. Health and Safety and Environmental

N/A

7. Photo of the day



Drill camera feeds from the MeBo drill. CarolCotterill@ECORD_IODP