

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



16th Oct 00:00 – 26th Oct 24:00 GMT

1. Location

49° 39.39' N 003° 50.32' W

2. Operations Summary

- Mobilisation of the BGS RD2 and Marum MeBo drill systems and onboard laboratories began on October 16th.
- The EPM joined the vessel at 15:00 on October 22nd.
- The Science Party (offshore only) joined at 10:00 on October 24th.
- The pilot joined the vessel at 09:50 on October 26th and the RRS *James Cook* departed the quayside at Southampton at 10:21.
- The pilot departed at 11:41 and the vessel began to transit to the Atlantis Massif sites. The transit will continue until late November 3rd, weather permitting.

3. Science Report

N/A

4. Core Recovery Details

N/A

5. Time Breakdown

N/A

6. Weather

Previous 24 hours: Dry, moderate swell reaching up to 4 – 5m by late evening; wind direction SE, winds of 10-20 kts; 12°C.

Next 24 hrs: Oceanic swell of 4-5m, Winds SW swinging to SE, Light freshening to Force 8 by late on the 28th.

10. Planned Activity for the next 7 days

- Continue transit to the Atlantis Massif location – arrival time currently forecast for late on November 3rd.
- Laboratory familiarization and training on ships systems and core flow operations will continue during the transit.

11. Photos of the day



Marum MeBo winch being installed. ©Dave Smith



ECORD Database container being loaded. ©Dave Smith



BGS RD2 Winch and LARS. ©Dave Smith



RRS James Cook. ©Dave Smith



Marum MeBo and BGS RD2. © Carol Cotterill