

## **IODP Expedition 395E: Complete South Atlantic Transect Reentry Systems**

### **Week 8 Report (23–29 May 2021)**

Week 8 of Expedition 395E, Complete South Atlantic Transect Reentry Systems, was spent in transit to Reykjavík, Iceland.

### **Operations**

#### *Transit*

At the beginning of Week 8, the ship had completed 2427 nmi of the total 5761 nmi transit to Reykjavík. During the week, the ship transited a further 1850 nmi at an average speed of 11.0 kt. By midnight on 29 May, we had completed 4277 nmi of the transit, with 1484 nmi remaining.

### **Science Results**

Scientific measurements on cores and samples from Sites U1560 and U1561 were already completed before this week.

### **Outreach**

No onboard Outreach Officer is sailing during Expedition 395E. Social media posts were made via the *JOIDES Resolution* Facebook (<https://www.facebook.com/joidesresolution>) and Twitter (<https://twitter.com/TheJR>) accounts, run by the JRSO technical staff.

On 28 May, the Expedition 390/393 Co-Chief Scientists and the U.S. Science Support Program Senior Education and Outreach Officer held a Facebook Live event, which was also streamed live on YouTube (<https://www.youtube.com/watch?v=O2YcLsGaMUc>).

### **Technical Support and HSE Activities**

#### *Laboratory Activities*

- Continued to investigate the *P*-wave velocity gantry problems:
  - Reset to the initial settings.
  - The rotation of the gear that moves the calipers was set to a lower speed, so that the movement no longer jams.
  - Investigation is ongoing, but the system is operational.
- Organized outgoing shipments.
- There has been some condensation in the cold room, which is ameliorated when the natural vent and the blanking plate are closed when the cold room is on.

- Working with Siem Offshore on a port call work plan for limestone delivery and magnetometer cable replacement.
- Investigation of the precision depth recorder (PDR) 3.5 kHz signal found that it worked at lower power but the signal was lost at higher power.
- Investigated discrete sample rotations on the superconducting rock magnetometer (SRM). On Expedition 384, results indicated that the code for discrete sample rotations is not correct. Testing is in progress.

#### *IT Support Activities*

- Recovered NEBO (Cumulus) server after a software conflict with a USB device.
- Organized and prepared freight for shipment.
- Firmware updated on both Secure Mobile Access (SMA) 200 Virtual Private Network (VPN) appliances.
- Deployed the latest versions of Firefox and Chrome shipwide.

#### *Developer Activities*

- Working on changes to the LORE Thermal Conductivity (TCON) report.
- Investigating two columns missing from the Gas Elements Standard LORE report.

#### *HSE Activities*

- Safety shower and eye wash stations were tested.