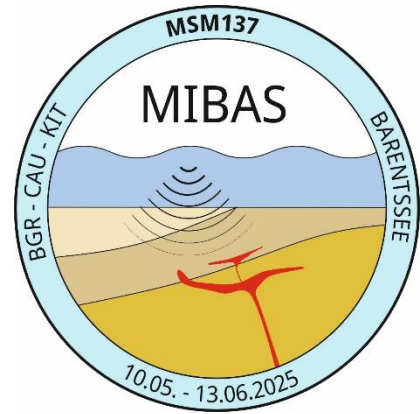


### 3. Weekly Report

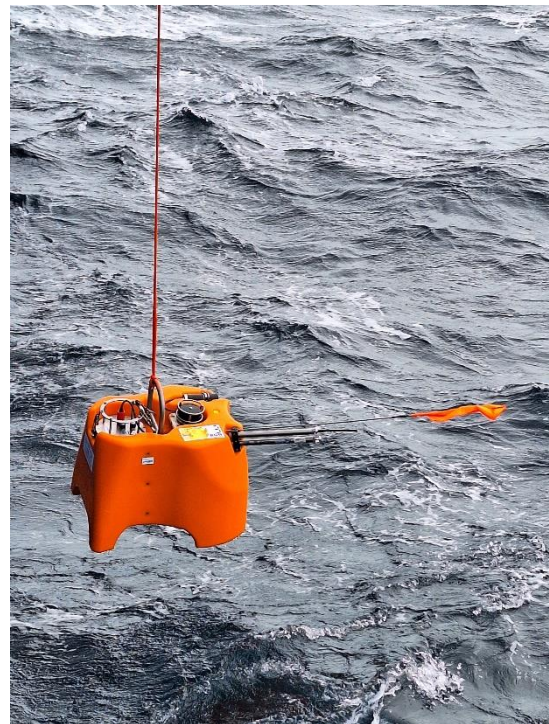
MSM137

May 19-25, 2025

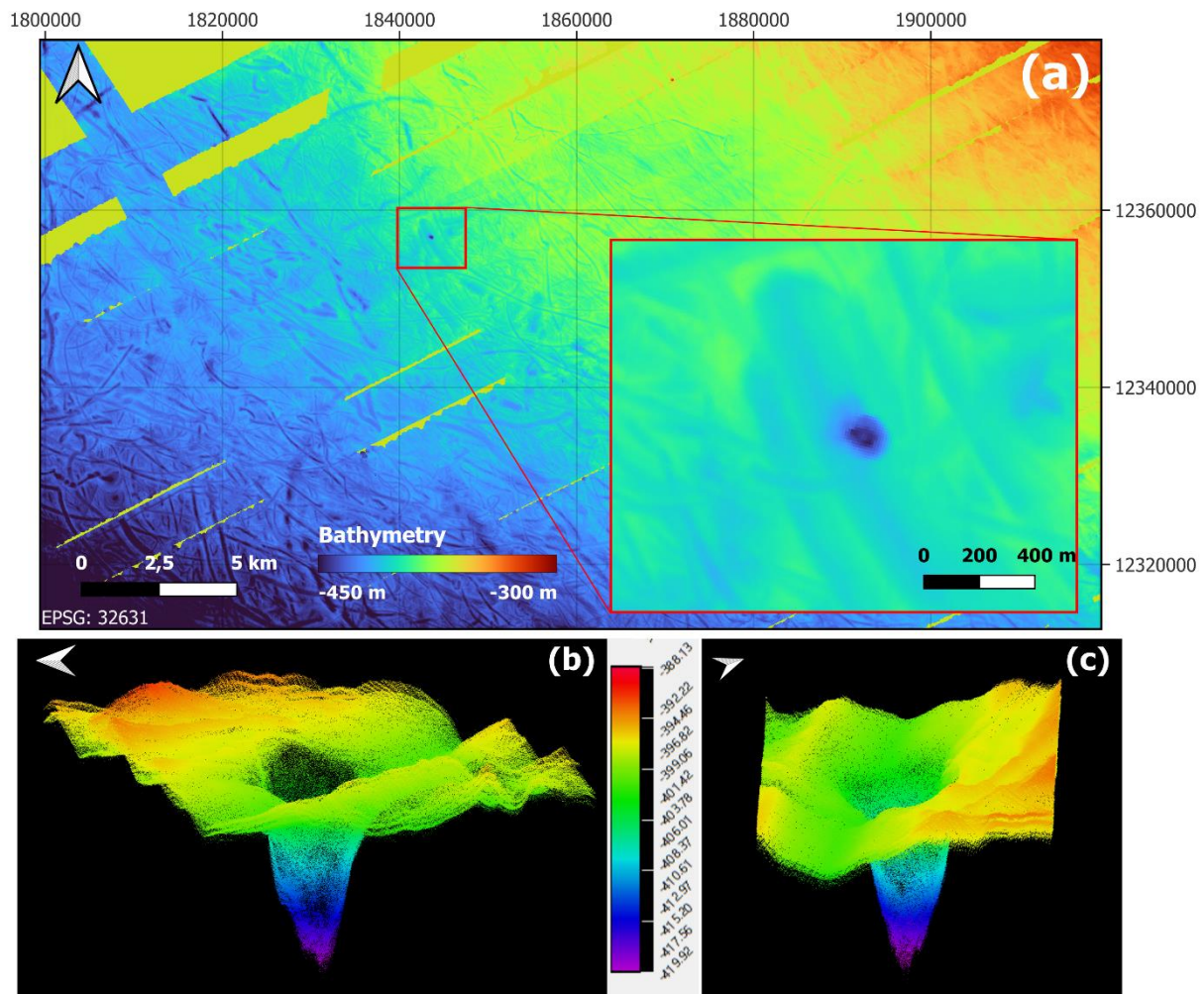


The first profile change of the new week began with some minor repair work: a hose as well as a buoyancy ball was replaced on the airguns, a towed magnetic sensor was exchanged and a computer in the data recording system was replaced. All work could be completed during the profile change, and after the 180° turn, all systems were fully operational again. The rest of the week was characterized by largely trouble-free seismic measurements in changeable wind conditions. Seismic data acquisition was only briefly interrupted on May 22. An airgun array had slipped over the centrally towed streamer cable during the turn. However, this situation was expertly resolved by the deck crew, and shortly afterwards the seismic measurement program could be continued with a new soft-start of the seismic sources.

On the evening of May 23, the measurement program in the first survey area of the cruise was completed as planned, and the airguns and streamer were retrieved in the evening. This was followed by a small-scale hydroacoustic survey at two sites, including a round depression with a diameter of 200 m and a depth of approx. 25 m that we had discovered (see figure below). On the morning of May 24, the recovery of the ocean bottom seismometers (OBS) began. However, this work had to be interrupted overnight as wave heights of over 5 meters no longer allowed safe working on deck. By 12 noon on May 25, however, all 16 OBS were back on board.



*Recovery of an OBS.*



*The bathymetric survey shows a round depression with a diameter of 200 m, the depth reaches 25 m.*

We have acquired 21 seismic profiles with a total length of 1050 km in the first area of the cruise. This data will allow us to describe the spatial variability of the intrusive structures situated here in detail. We are currently in transit (150 nautical miles) to the second area of the cruise.

All participants are doing well and send their greetings home.

Michael Schnabel

Chief Scientist MSM137