

Cruise Progress 16th April, 2018

Cruise Plan

07:15 - arrival of students

08:00 - departure

08:30 - station 6 - 'Tiefe Rinne', use CTD and SVP, water samples for microbiology and chlorophyll and alkalinity analysis. End of station: 09:00

09:15 - station 7 - 54.170560 N, 7.819004 E. Ground truthing sediment of yesterday's testsite where MB matras was done. Boxcore. End of station: 09:30

09:45 - station 8 - 54.174453 N, 7.806553 E. Boxcore. End of station: 10:00

10:15 - station 9 - 54.174453 N, 7.807282 E. Boxcore. End of station: 10:30

12:15 - station 10 - Ariadne wreck, 54.111460 N, 7.342456 E. With 5kn over the wreck, then 'butterfly' -> towed side scan or magnetometer. End of station: 12:45

14:30 - station 11 - mudpile, 54.089720 N, 7.967778 E. CTD and SVP, Multinet, MUC. End of station: 15:30. Pass over other nearby wrecks on the way back if time.

16:00 - back to Helgoland.

17:00 - docking Helgoland.

Brief lectures

Ocean acidification and paleo-ocean (*J. Bijma*)

Multibeam/Acoustics (*V. Unnithan*)

Instruments used

- Multibeam
- Side scan sonar
- Magnetometer
- Multinet
- Boxcorer
- MUC

Tasks

- processing of multibeam data, 2 different softwares
- chlorophyll and alkalinity analysis

Ariadne shipwreck

- good profiles of the Ariadne
- very nice on side scan and multibeam
- passed over it three times, same procedure as yesterday

Planned geological excursion over Helgoland

