

Sediment Acoustics Training Cruise with RV Polarstern

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Date & Time:	May 5 - 14, 2016 Please note that final dates might shift by +/- 1 day!
Location:	RV Polarstern
Language:	English
POLMAR credit points:	10
Registration:	info.polmar@awi.de
Application procedure:	Deadline for application is January 15, 2016. Applicants should submit a short proposal indicating their field of work, any pre-knowledge in echosounding techniques, relevance of the ship-based training for their Master or PhD project (if applicable) and add a paragraph of motivation why they want to participate.

Course content:

The Helmholtz Graduate School for Polar and Marine Research (POLMAR) at AWI and the University of Bremen/Department of Geosciences jointly offer a training cruise with *RV Polarstern* during leg PS95 between the Canary Islands and Bremerhaven.

The aim of the cruise is to train participants for self-efficient operation of the echosounding systems of *RV Polarstern* (this includes the hull-mount Parasound system P-70 and Hydrosweep). The training programme comprises lectures, practical training on the hydrosweep and parasound systems, supporting the regular watches as well as literature work. Students will work in pairs of two in 2-4 hour-shifts (24/7). All participants are required to give a 15 min presentation on their Bachelor, Master or PhD project.

The course will start with a theoretical introduction into the physics of echosounding, followed by a general introduction into the operating systems. Both systems will be operated continuously

between Las Palmas and Bremerhaven with participants being responsible for the operation of the systems.

Practical exercises are complemented by discussion of published case studies in order to apply and deepen the gained knowledge. Participants will learn to combine sediment core and multibeam-bathymetric data with Parasound profiles. They will further learn how to plan a bathymetric survey from acquisition to final map products. The workflow includes data acquisition with the Atlas Hydrosweep software packages Atlas Hydromap Control (AHC) and Atlas Parastore, data with the software packages CARIS HIPS and SIPS®, visualisation of data with the software package QPS Fledermaus® as well as import of post-processed data into a geographical information system (GIS) for map generation.

The course can host up to 8 Master students and up to 8 doctoral candidates.

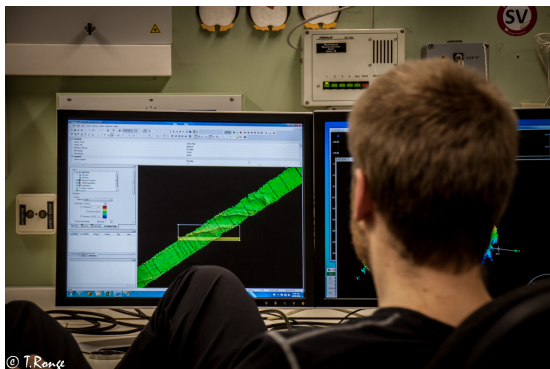


Cruise track:

Embarkation will take place in Las Palmas, Canary Islands. Port of disembarkation is Bremerhaven.

Target group:

The training addresses master and PhD students from geosciences and bathymetry. In case of place availability, students from other fields of marine sciences are equally welcome. The final decision is jointly taken by the team of lecturers and POLMAR.



Costs:

Expected costs amount to approx. 200 € for travel to Las Palmas and one overnight stay. POLMAR members can apply for travel support.

Left: Student on watch on the parasound system during PS 88. Photo courtesy of T. Ronge (AWI).