

HiWi Work between January and June 2025 (possibility of 6 months extension)**Main supervisors/contacts:**

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Co-supervisors:

Phillip Fisher (Philipp.Fischer@awi.de), Achim Kopf (akopf@marum.de)

Department

Marine Geotechnics Lab, MARUM, Bremen, Germany

Contract type

HiWi contract for 6 months, 42hrs/months, 15.95 Euro/h

A probation period of one month will be observed. An extension of 6 months is possible.

Work Rational

BlueDOT is a citizen science project that aims to address a data gap in monitoring coastal ocean temperatures within the upper 40 m. We plan to achieve this by establishing a global database that centralizes temperature data collected from individual dive computers and from stationary, sustained sensors. For more information on the project, please have a look at our website: <https://www.marum.de/BlueDOT.html>

The work of the Hiwi will focus on helping to populate our database with Temperature data from dive computers of scuba divers. The work will also involve establishing a workflow documentation on producing statistics and data products such as graphs. The Hiwi will also assist in informing, discussing and helping scuba divers at pilot sites, on how to share their data and participate in the BlueDOT citizen science project. The work will also include downloading of the data reference from reference sensors deployed at our partner Dive Bases. This data will be subjected to a quality check and establish systematic procedures for future reference site temperature data recovery.

Travel and accommodation will be covered. The Hiwi will have to compile a comprehensive technical report for the project following the principles of best practices (see the [Ocean Best Practices System](#) for more information on best practices).

Tasks

- Upload dive computer data to database
- Assist professional diver and recreational divers in uploading/sharing their data (design posters and flyers for dive bases and outreach events, write uploading chart, assist in video tutorial making, answering QR emails)
- Assist in downloading of the data from our reference in-situ temperature sensors deployed at our partner Dive Bases
- Establish a workflow for data upload and routine database plots (statistics, graphics, and maps)
- Linkup database main output monthly on our webpage <https://www.marum.de/BlueDOT.html>
- Write a technical report about the conducted work
- Help with project communication on social media and our website

Work requirement

The work period will be from December 2024 to May 2025. Potential Travel locations include: Gozo (Malta), Costa Brava (Spain), Helgoland (Germany). A work desk will be provided.

Profile

- Proficient in English (reading/writing/speaking)
- Bachelor level 4th semester
- Student with data processing skills (Data Science) and basic programming skills

- Experience in read and write databases
- Knowledge in dealing with JavaScript Object Notation format (JSON format)
- Knowledge in data processing software/tools.
- Experience in spatial data clustering analysis
- Basic to advance knowledge of diving is beneficial

If you are interested contact us with a motivation letter and CV addressing the profile requirement.

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