

# WE PROMOTE THE SUSTAINABLE USE OF THE COASTS, SEAS AND OCEANS

RESEARCH

DATA MANAGEMENT  
& DIGITALISATION

INFRASTRUCTURE

TRANSFER



# ONE OF THE LARGEST MARINE RESEARCH ALLIANCES

Seas and oceans play a central role in global climate processes. They are among the most important ecosystems on Earth and influence the lives of millions of people. There is a great need for knowledge on how to protect the oceans and make their use by humans more sustainable.

In 2019, the German marine research community, together with the federal government and the northern German states of Bremen, Hamburg, Mecklenburg-Western Pomerania, Lower Saxony and Schleswig-Holstein, founded the German Marine Research Alliance (Deutsche Allianz Meeresforschung, DAM).

Germany has thereby created one of the world's largest marine research alliances.





## OUR OBJECTIVES

**The DAM aims to strengthen the sustainable use of the coasts, seas and oceans through research, data management and digitalisation, infrastructure and transfer.**

**To this end, the DAM is working together with its member institutions to develop solution-oriented knowledge and to communicate potential courses of action to politics, business and civil society.**

### **Funding by the Federal and Northern State Governments:**

Bremen's Senator for Science Eva Quante-Brandt, Hamburg's Senator for Science Katharina Fegebank, Federal Minister of Research Anja Karliczek, Lower Saxony's State Secretary Sabine Johannsen, Science Minister Karin Prien from Schleswig-Holstein (from left to right) and Science Minister for Mecklenburg-West Pomerania Bettina Martin (out of frame) signed the administrative agreement establishing the DAM in July 2019.



## OUR CORE AREAS

### RESEARCH

#### Knowledge for Decision-Making

The DAM develops and coordinates solution-oriented research missions to investigate current, socially relevant issues and develop science-based decision-making options for the sustainable management of coasts, seas and oceans.

The research missions are selected and carried out in consultation with stakeholders.

Two topics have been selected for now: *Protection and sustainable use of the oceans: Options, concepts and strategies* and *Marine carbon sinks: Contributing to climate protection*.

### DATA MANAGEMENT AND DIGITALISATION

#### Strategies for Marine Research

Together with its member institutions, the DAM is developing an integrated and reliable data management concept for the research environment. It supports open access to marine research data in line with FAIR principles (findable, accessible, interoperable, reusable).

The aim is to generate added value for science and innovation through open access and by integrating quality-assured research data across disciplinary boundaries. This will be done taking into account the activities of the National Research Data Infrastructure (NFDI).

# INFRASTRUCTURE

## Concepts for Efficient Use

German marine research has a unique research infrastructure, including research vessels and research stations, underwater vehicles, observatories and aircraft.

The DAM develops comprehensive utilisation and operational concepts to facilitate the efficient use of this infrastructure. Operating the infrastructure remains the task of the individual institutions.

# TRANSFER

## Using Knowledge Effectively

Scientific knowledge can impact society when it leads to innovations, developments, decision-making or an increase in knowledge beyond the scientific community. At the same time, the dialogue with non-scientists allows socially relevant questions and views to be incorporated into current research. This is why the transfer of scientific findings to politics, business and society is one of the DAM's key objectives.

The DAM pools German marine research expertise concerning the sustainable management of the coasts, seas and oceans and ensures that knowledge is exchanged in ways that are appropriate to the target group. The DAM also develops strategies for cooperating with business, promoting young scientists and for capacity development.

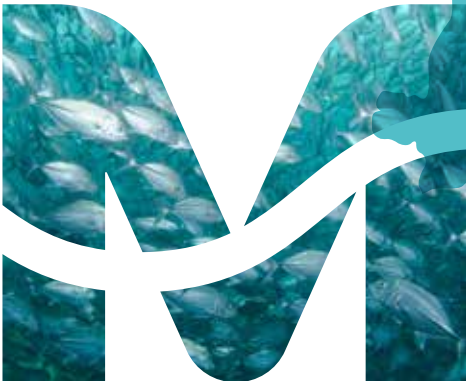
The SONNE is the most modern ship in the German research fleet.



# OUR MEMBERS

The DAM brings together 22 leading German marine research institutions:

- ~ **AWI** – Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research
- ~ **BAW** – Federal Waterways Engineering and Research Institute\*
- ~ **BSH** – Federal Maritime and Hydrographic Agency\*
- ~ **BGR** – Federal Institute for Geosciences and Natural Resources\*
- ~ **CEN** – Center for Earth System Research and Sustainability, Universität Hamburg
- ~ **DMM** – German Oceanographic Museum, Stralsund\*
- ~ **DSM** – German Maritime Museum – Leibniz Institute for Maritime History\*
- ~ **FRAUNHOFER** – Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
- ~ **FZK** – Coastal Research Center of Leibniz University Hannover and Technische Universität Braunschweig
- ~ **GEOMAR** Helmholtz Centre for Ocean Research Kiel
- ~ **HEREON** – Helmholtz-Zentrum Hereon



- ~ **ICBM** – Institute for Chemistry and Biology of the Marine Environment, Carl von Ossietzky University in Oldenburg
- ~ **IOW** – Leibniz Institute for Baltic Sea Research, Warnemünde
- ~ **KMS** – Kiel Marine Science, Kiel University
- ~ **MARUM** – Center for Marine Environmental Sciences at the University of Bremen
- ~ **MPI-MM** – Max Planck Institute for Marine Microbiology
- ~ **MPI-M** – Max Planck Institute for Meteorology
- ~ **MTS** – Department of Maritime Systems, University of Rostock
- ~ **SNG** – Senckenberg am Meer, Senckenberg Society for Nature Research
- ~ **THÜNEN** – Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries
- ~ **UG** University of Greifswald
- ~ **ZMT** Leibniz Centre for Tropical Marine Research

\* associated members



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