

**WE COMBINE THE
PROTECTION OF COASTS,
SEAS AND OCEANS WITH
THEIR SUSTAINABLE USE**

RESEARCH

TRANSFER

**DATA MANAGEMENT
& DIGITALISATION**

**COORDINATION OF
INFRASTRUCTURES**



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).

In doing so, Germany has created one of the world's largest marine research alliances.

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

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

OUR GOALS



WE WANT TO

- ~ promote coastal, marine and polar research to help achieve the UN Sustainable Development Goals (SDGs).
- ~ expand knowledge to inform action on the marine and climate protection goals agreed in the coalition agreement and contribute it to the dialogue with policy-makers, business and society.
- ~ expand the DAM together with the federal and state governments to become a central instrument for preventive research and greater sustainability.
- ~ help shape the UN Decade of Ocean Science for Sustainable Development that has just begun.



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.

Two research missions are currently in progress, *dealing with Marine Carbon Sinks* and *the Protection and Sustainable Use of the Oceans*. Potential options for taking action are being developed here in association with various specialist disciplines and in exchange with stakeholders, to support political and social decisions – for a climate-friendly future with our oceans, as well as designing concepts for how to use and protect them, especially in the North Sea and the Baltic Sea. A third DAM research mission on *Extreme Marine Events and Natural Hazards* has been brought on its way.

TRANSFER

Using Knowledge Effectively

A core function of the DAM is transferring scientific findings to politics, business and society in order to strengthen the sustainable management of coasts, seas and oceans. The DAM channels German marine research expertise and ensures an exchange of knowledge that is guided by goals and needs, as well as the dialogue with politics and society. In addition, the DAM develops strategies for cooperating with industry, for promoting young researchers and for setting up knowledge partnerships.

The DAM's research missions are intended to facilitate research and development in close cooperation with the business world.

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 marine research. 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. The DAM is a member of the association National Research Data Infrastructure (NFDI) and participates in the consortium NFDI4Earth.

COORDINATION OF INFRASTRUCTURES

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.

The SONNE is the most modern ship in the German research fleet. The renewal of the German research fleet that has begun must be continued.



OUR MEMBERS

The DAM brings together 23 leading German marine research institutions:

- ~ **AWI** – Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research
- ~ **CEN** – Centre for Earth System Research and Sustainability, Universität Hamburg
- ~ **FRAUNHOFER** – Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
- ~ **FZK** – Coastal Research Centre 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** – Centre for Marine Environmental Sciences at the University of Bremen
- ~ **MPI-M** – Max Planck Institute for Meteorology
- ~ **MPI-MM** – Max Planck Institute for Marine Microbiology
- ~ **MTS** – Department of Maritime Systems, University of Rostock
- ~ **SAM** – 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



IDOS
Bonn ↓

**FRAUNHOFER-
GESELLSCHAFT**
München ↓

ASSOCIATE MEMBERS

- ~ **BAW** – Federal Waterways Engineering and Research Institute
- ~ **BGR** – Federal Institute for Geosciences and Natural Resources
- ~ **BSH** – Federal Maritime and Hydrographic Agency
- ~ **DMM** – German Oceanographic Museum, Stralsund
- ~ **DSM** – German Maritime Museum, Leibniz Institute for Maritime History
- ~ **UBA** – German Environment Agency

Strategic partners:

- ~ **IDOS** – German Institute of Development and Sustainability
- ~ **RIFS** – Research Institute for Sustainability



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