

**24 MARINE RESEARCH INSTITUTIONS,
ONE GOAL:**

**WE STRENGTHEN THE
SUSTAINABLE MANAGEMENT
OF COASTS, SEAS AND
OCEANS.**

RESEARCH

TRANSFER

**DATA MANAGEMENT
& DIGITALIZATION**

**COORDINATION OF
INFRASTRUCTURES**



AN ASSOCIATION FOR MARINE RESEARCH IN GERMANY

Climate, seas and oceans are vital: they play a central role in global climate processes, are among the most important ecosystems on Earth and provide the livelihoods for a growing world population. In order to preserve them as the basis of our life in the future, we need knowledge for their protection and their sustainable use by humans.

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 (DAM) – one of the largest marine research alliances in the world.

The aim of the DAM is to strengthen the sustainable management of the coasts, seas and oceans. With its activities in the core areas of research, data management and digitalization, coordination of infrastructures and transfer, the DAM works together with its member institutions and in exchange with politics, business and civil society to develop solution-oriented knowledge and courses of action as a basis for sustainable decisions.

OUR GOALS



- ~ Strengthen coastal, marine and polar research with a view to achieving the UN Sustainable Development Goals.
- ~ Working with the federal and state governments to promote networking and cooperation within marine research and with policy-makers, business and civil society.
- ~ Developing practical knowledge for marine and climate protection and bringing it into dialogue with politics, business and civil society.
- ~ Helping to shape the UN Decade of Ocean Science for Sustainable Development.



OUR CORE AREAS

RESEARCH

Knowledge for decisions

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

Three DAM research missions are currently underway on the topics of oceans as *marine carbon sinks (CDRmare)*, *protection and sustainable use of the oceans (sustainMare)* and *marine extreme events and natural hazards (mareXtreme)*. Scientists from various marine research institutions and specialist disciplines work together with stakeholders from politics, business and civil society to develop knowledge action as a basis for political and societal decisions – for a climate-friendly future with the oceans and for the design of use and protection concepts, especially in the North and Baltic Seas.

TRANSFER

Making knowledge effective

The transfer of scientific knowledge to politics, business and society is a core element of the DAM. It pools the German marine research expertise and ensures a demand-oriented exchange of knowledge and dialogue with politics, business and civil society. To this end, the core area of transfer develops formats in cooperation with scientific and cultural institutions that provide access and an overview of marine topics relevant to society.

DATA MANAGEMENT AND DIGITALIZATION

Strategies for marine research

Together with its member institutions, the DAM is developing an integrated data management concept for marine research. It supports open access to marine research data in accordance with the FAIR principles (findable, accessible, interoperable, reusable). The aim is to create value for science, innovation and beyond through open access and integration of validated research data across disciplinary boundaries. The DAM is a member of the National Research Data Infrastructure (NFDI) association and is involved in the NFDI4Earth consortium.

COORDINATION OF INFRASTRUCTURES

Concepts for efficient use

With its research vessels and stations, underwater vehicles, observatories and aircraft, German marine research has unique research infrastructures. In order to enable efficient use of these infrastructures, the DAM is developing comprehensive utilization and operating concepts. The operation of the infrastructures remains the responsibility of the institutions.



OUR MEMBERS

The DAM brings together 24 leading German marine research institutions:

- ~ **AWI** – Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research
- ~ **CEN** – Centre for Earth System Research and Sustainability, University of Hamburg
- ~ **FRAUNHOFER** – Fraunhofer Society for the Advancement of Applied Research
- ~ **FZK** – Coastal Research Center of Leibniz University Hannover and Technical University of Braunschweig
- ~ **GEOMAR** Helmholtz Centre for Ocean Research Kiel
- ~ **HEREON** – Helmholtz Centre 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-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
- ~ **TiHo** – University of Veterinary Medicine Hannover
- ~ **UG** – University of Greifswald
- ~ **ZMT** – Leibniz Centre for Tropical Marine Research



IDOS
Bonn ↓

FRAUNHOFER-GESELLSCHAFT
München ↓

ASSOCIATED 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



CONTACT

Deutsche Allianz Meeresforschung e.V.
Markgrafenstraße 22 | 10117 Berlin
Tel. +49 (0)30 23 59 627-0
kontakt@allianz-meeresforschung.de

www.allianz-meeresforschung.de



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