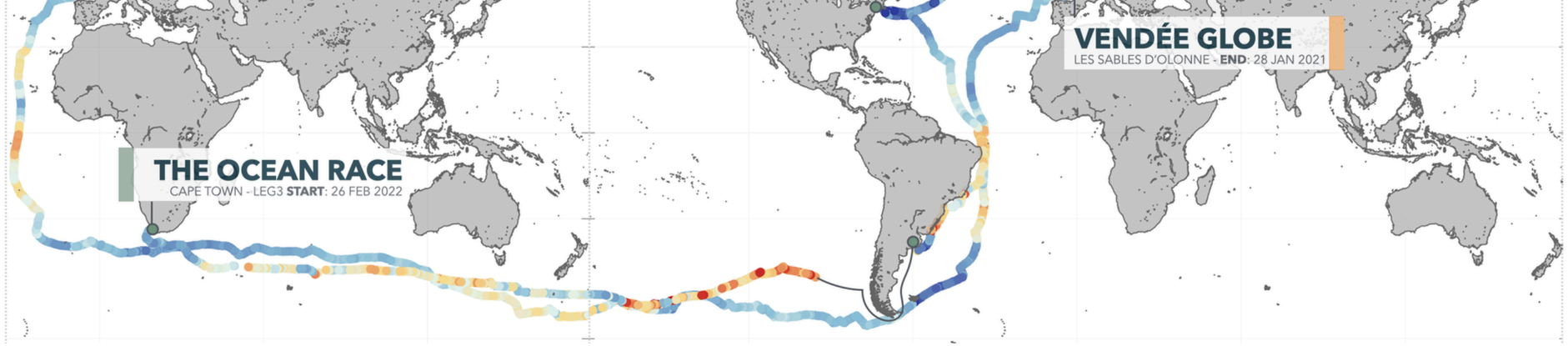
Malizia Explorer



Science - Communication - Education

A PLATFORM TO UNITE



RACING FOR SCIENCE SINCE 2018

One mission, two boats. Over the past years, Team Malizia has combined high-performance offshore racing with a bold commitment to climate and science, raising awareness, educating younger generations, and collecting key Ocean data.

Led by skipper Boris Herrmann, the team competes in the world's toughest sailing races and uses its platform to inspire action and give the Ocean a voice. Aboard the current foiling IMOCA racing yacht Malizia 4, just as we have done onboard previous race boats since 2018, the team collects sea-surface CO_2, temperature and salinity measurements in remote regions and deploys drifter buoys and Argo float. This work is carried out in close collaboration with scientific partners and contributes to broader Ocean carbon observation efforts.







SAILING FOR SCIENCE

Building on our experience, we launched the Malizia Explorer science sailing vessel in April 2025. The dedicated to research and education, the boat provides a complementary platform for targeted Ocean observation, scientific collaboration, and outreach, supporting climate research and Marine Protected Areas (MPAs).

For selected missions, the Malizia Explorer offers a potentially lower-footprint, cost-efficient and flexible option, enabling small teams to access shallow and remote regions while complementing traditional research vessels.

Scientists, media, content creators, and ambassadors come onboard to observe, study, and share the Ocean's story, connecting robust scientific work with public engagement and helping turn knowledge into action.

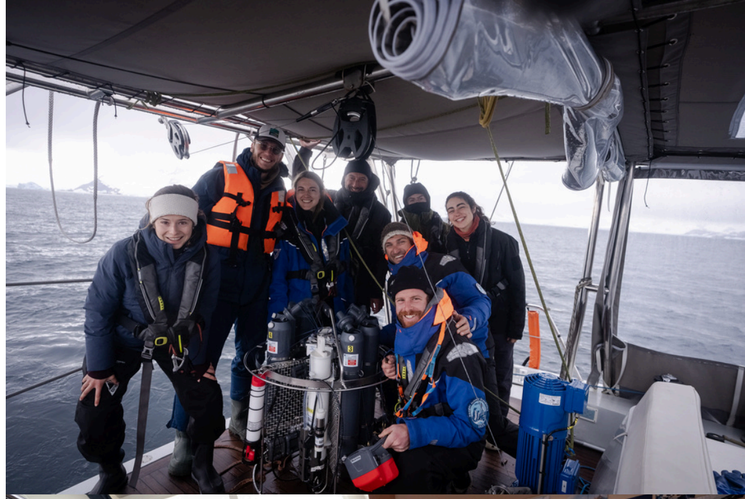


THE MALIZIA EXPLORER

Our research vessel is a highly seaworthy sailing yacht, built with a durable aluminum hull to withstand polar conditions and proven by a full circumnavigation. It carries the “A Race We Must Win – Climate Action Now!” logo on the sails to strive for ambitious climate bringing the topic to life from the Ocean.

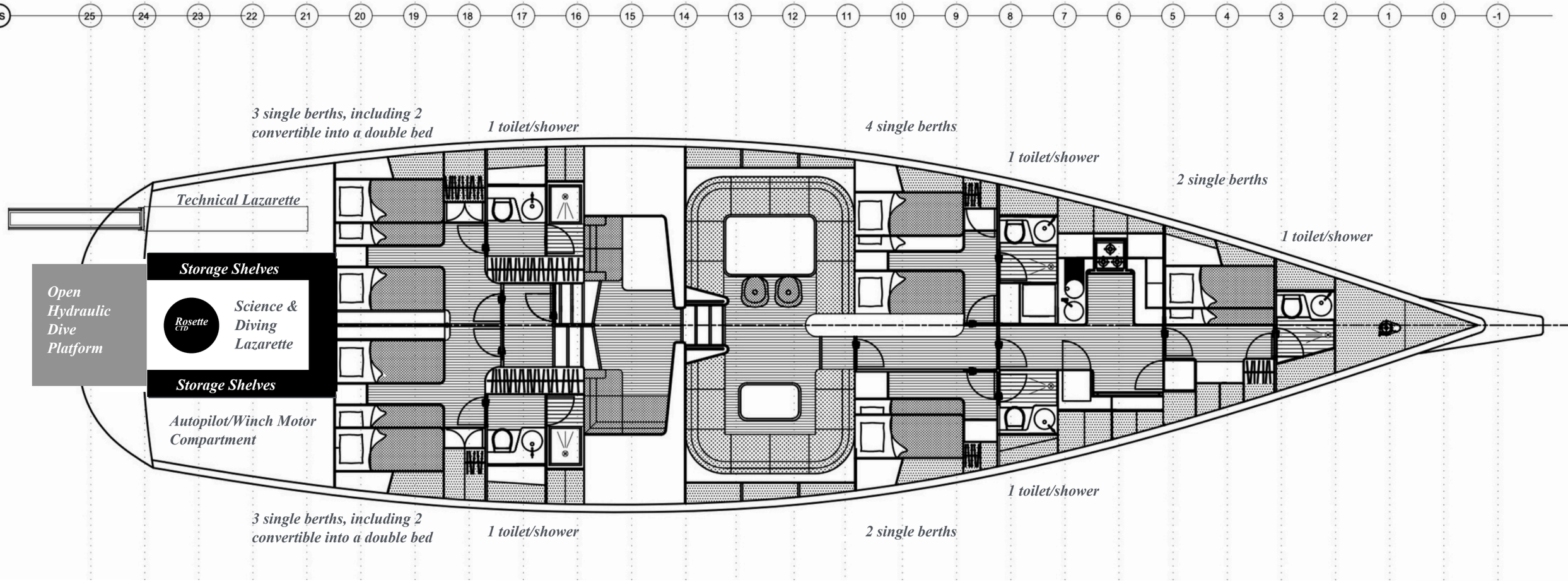
The vessel is operated by a crew of four and can accommodate up to 10 scientists along with their equipment, for a maximum capacity of 14 people.

- Length: 25.99 m
- Draft: 2.5-4.5 m (keel down)
- Mast height: 40 m
- Width: 7 m









MALIZIA EXPLORER – Capacity, Storage, Berths and Sanitary.

Total: 5 cabins, 5 toilets/showers, 14 berths, including 2 convertible into double beds in the aft cabins.


SCIENCE


SCIENCE




Melizia Explorer

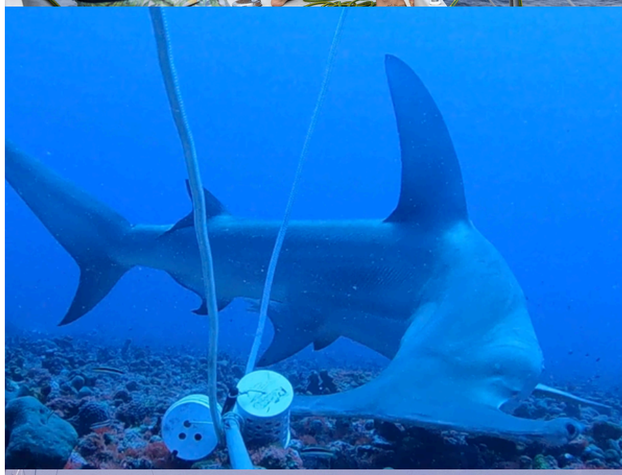

Melizia Explorer
14

SCIENCE ONBOARD

Malizia Explorer offers a functional working environment for oceanographic research, equipped with a range of onboard scientific instruments and essential infrastructure for the deployment, storage, and operation of research equipment, as well as data processing and communication during expeditions. Data collection protocols, calibration procedures, and quality assurance and quality control (QA/QC) workflows are defined in collaboration with scientific partners according to each mission's requirements. We are committed to promoting open science and encourage all scientific projects supported by Malizia Explorer to make their research data openly accessible whenever possible.

- Spacious mess with two tables and a TV for meetings and presentations, accommodating up to 25 people dockside or nearshore, subject to local regulations
- Reliable Starlink internet connection for data transfer and remote collaboration
- A deck-mounted A frame crane to deploy and recover instruments
- A large aft garage (4x3x1m) for storing scientific gear and samples
- A dinghy for coastal access and nearshore sampling







OCEAN & WATER COLUMN

SCIENTIFIC INSTRUMENTS

Malizia Explorer is equipped with a CTD rosette and an underway OceanPack system, providing an integrated platform for biological, chemical, and physical oceanographic measurements. Data are collected in collaboration with scientific partner institutions, with calibration and QA/QC procedures defined for each mission, and can contribute to established repositories, publications, and observing networks. Malizia Explorer has also collected underway CO_2 observations in remote Ocean regions, contributing valuable data to ocean carbon research.

- **CTD Rosette (Sea-Bird SBE 55):** Deployed from the stern via an A-frame and lowered using a MacArtney CORMAC M2 winch, equipped with six 4 L sampling bottles. The system measures key oceanographic parameters, including temperature (T), salinity (S), dissolved oxygen (O_2), pressure, chlorophyll, and coloured dissolved organic matter (CDOM). It can be deployed to depths of up to 480 m, with real-time data transmission to an onboard computer.

- **OceanPack Underway System (SubCtech):** Continuous flow-through system enabling real-time surface measurements while underway, including CO_2, dissolved oxygen (O_2), salinity, and temperature.







BIOLOGICAL OBS. & PLANKTION

SCIENTIFIC INSTRUMENTS

The vessel is equipped with a 50 µm **plankton net** and a **PlanktoScope imaging system**, enabling targeted collection and high-resolution imaging of plankton communities. This setup supports quantitative assessment of plankton biodiversity, abundance, size distribution, and community composition, and contributes to standardized datasets for ecological and oceanographic analyses.

The 50 µm plankton net allows selective collection and concentration of microplankton from defined water volumes or sampling depths. Collected samples can be analysed on board with the PlanktoScope, a modular flow-through imaging system for digital microscopy of plankton and suspended particles. Depending on configuration, the system supports imaging of phytoplankton, protists, small zooplankton, detrital particles, and other particulate matter in the approximate 5–300 µm range, with high spatial resolution suitable for automated image acquisition, particle sizing, counting, and taxonomic classification workflows.

Scientific support by Helmholtz-Zentrum Hereon may be available for sampling strategies, instrument operation, data processing, quality control, and integration of PlanktoScope-based observations into broader marine monitoring and research programmes.















ACOUSTICS & BATHYMETRY

SCIENTIFIC INSTRUMENTS

- Deck-mounted support system for acoustic and bathymetric pole deployment
- Barometric (atmospheric pressure) sensor unit for continuous in situ measurements

ATMOSPHERE & METEOROLOGY

SCIENTIFIC INSTRUMENTS

- We are also equipped with onboard meteorological monitoring systems and additional infrastructure to support a wide range of scientific missions.

DIVING & COASTAL SAMPLING

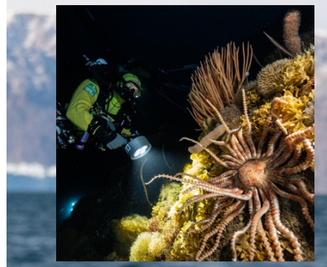
SCIENTIFIC INSTRUMENTS

Malizia Explorer is equipped with four full sets of diving gear and a Bauer Junior II diving compressor (225 bar) with twin filling hose (PN200), supporting autonomous diving operations. Diving activities can be conducted directly from the aft deck platform or via a dedicated tender.

The vessel is supported by a 4.0 m rigid-hull inflatable tender powered by a 20 HP Suzuki four-stroke engine, as well as a secondary safety dinghy (Plastimo Trail, 3.4 m) with an 8 HP Yamaha outboard.

This configuration supports flexible scientific diving, sampling, and nearshore operations, subject to mission-specific safety protocols and operating conditions.









BRING YOUR OWN SCIENCE

Your Instruments, Our Platform

Malizia Explorer is designed as a flexible research platform. Scientific teams can use the vessel's existing instrumentation or propose the integration of mission-specific equipment where technically and operationally feasible.

Potential equipment and deployments include Argo floats and drifters, buoys, hydrophones, acoustic and bathymetric systems, additional CTDs and sensors, and sampling equipment.

If your instrument is not already onboard, it can still be considered as part of your project proposal.

Future / Planned Capability

- UVP6-HF integrated with the CTD for high-resolution vertical plankton observations
- Handheld CTD to provide complementary environmental information for PlanktoScope sampling
- Bathymetry sensor data logger, NF-GEBCO Seabed2030/ AWI



2027-31

MALIZIA EXPLORER
PRELIMINARY SAILING PLAN

1	MARCH-APRIL 2027	Morocco (EDM)
2	MAY 2027	Cape Verde
3	JULY 2027	Fernando de Noronha / Tropical Atlantic
4	AUGUST 2027	Isla Grande do Sul
5	OCTOBER 2027	Uruguay
6	NOVEMBER 2027	Ushuaia, Argentina
7	DEC 2027 - FEB 2028	East Antarctic Peninsula
8	2028 -	South America / Patagonia (provisional)
9	2028 -	Pacific (provisional)

Malizia Explorer's five-year sailing programme (2027–2031) connects major research regions across the Atlantic, Southern Ocean and Pacific.
This sailing plan is subject to permitting, weather windows, operational constraints, and partner mission requirements.

Scientific projects can be proposed as dedicated missions or integrated into suitable legs. The provisional route highlights opportunities for future scientific collaborations- Please get in contact to explore how we could accommodate your mission.



PROJECT APPROVAL



We welcome project proposals in areas including:

- Physical & chemical oceanography
- Ocean carbon & climate
- Plankton & biodiversity
- Polar science
- Marine ecosystems & MPAs
- Coastal ecology
- Bathymetry
- Marine acoustics
- Atmospheric observations
- Ocean technology & autonomous observing systems
- Interdisciplinary projects

Other research areas are welcome. Projects are assessed according to scientific objectives, geographical and schedule compatibility, technical feasibility, available capacity, safety requirements and compatibility with the vessel's capabilities and potential for collaboration. All proposed scientific projects are first reviewed internally by the Malizia Explorer team to assess their suitability for the vessel, operational feasibility and compatibility with the sailing schedule. They are then submitted to our Scientific Advisory Board, representing different scientific institutions, for independent assessment of their scientific merit and feasibility within the scope of our missions.

SCIENTIFIC OPERATIONAL & COMMUNICATION NETWORK

OUR SCIENTIFIC ADVISORY BOARD

Our Scientific Advisory Board helps guide the selection of research projects to be pursued aboard Malizia Explorer.



Dr. Klas Ove Möller
Biological Oceanographer, Senior Scientist and Head of Department Biological Carbon Pump and Plankton, Helmholtz-Zentrum Hereon



Dr. Léa Olivier
Scientist at the Alfred Wegener Institute



Dr. Sandra T
Scientist at the Alfred Wegener Institute



Dr. Simeon Lisovski,
Polar Biology, Sea Birds Scientist at the Alfred Wegener Institute

FURTHER VOICES SUPPORTING US ON OUR MISSIONS



Dr Sylvia Earle
Oceanographer, explorer, Godmother of Malizia Explorer



Prof. Dr. Antje Boetius
President and CEO of the Monterey Bay Aquarium Research Institute (MBARI), California & AWI Former Director



Prof. Dr. Katja Matthes
Director, GEOMAR



Dr. Toste Tanhua
Chemical Oceanographer, GEOMAR



Esther Horvath
National Geographic Explorer and science photographer for Alfred Wegener Institute

GIVE THE OCEAN A VOICE

POLICY ENGAGEMENT

Malizia Explorer connects Ocean science with policy, institutions and communities along its route. Through partnerships with government bodies, NGOs, schools and local organisations, we help share scientific findings, highlight ongoing research and support evidence-based Ocean protection.

EDUCATION: MY OCEAN CHALLENGE

Created by Team Malizia, My Ocean Challenge is a global Ocean and climate education programme available in 11 languages, reaching over 128,000 students worldwide.
Through Malizia Explorer, we extend this work by inviting schools on board and hosting live classrooms from our missions, bringing remote ecosystems and Ocean science directly into classrooms. Alongside this, public talks, exhibitions, media and scientific publications help us share knowledge and connect people with Ocean research.







PRESS AND MEDIA

The Malizia Explorer research vessel serves as a powerful platform to communicate Ocean science and advocate for the urgent protection of our Ocean.

We believe that communicating science is just as important as conducting it. That is why we work with our research partners to develop a media and communications plan that helps share their work reach a wider audience.

From having an onboard reporter to inviting journalists and media representatives on board, we are happy to work with you to find the right approach for your project and help bring your research to as many people as possible.

Curious about the reach? Take a look at our media statistics.









PRESS AND MEDIA

Since April 2025, Malizia Explorer has reached audiences through a growing range of formats, including documentaries, media coverage, photography exhibitions and scientific publications, sharing stories from our missions and bringing the science carried out on board to a wider public.

1140 TOTAL MENTIONS

Across all media sources in the past 12 months

196 MIO REACH

Monthly average reach trend

12K followers across Social Media

EXAMPLES OF MEDIA PUBLICATIONS



[Nat Geo](#) Article, Sept. 2026



[France Inter](#) Podcast, June 2026



[ZDF Mission Pinguin](#), Nov. 2026



[GEO](#) Cover Story, Aug. 2026

ALL ON BOARD

Let’s unite to deepen our understanding of the Ocean to better limit the impacts of climate change. Through this project, we aim to support Ocean science, broaden public engagement, and contribute to informed dialogue around Ocean and climate issues.: advancing science, inspiring global climate action, and shaping public dialogue around Ocean and climate issues.

SCIENCE OPERATIONS & LOGISTICS
oona@maliziaexplorer.com