





Polar POD report



An enormous project in the service of science

The Polar POD project was born of a unanimous observation: the Southern Ocean is the planet's main oceanic carbon sink, but this key player for the climate remains unknown because of the particularly hostile sailing conditions. It is difficult to navigate for traditional boats and they cannot stay there for long. In order to take measurements, sheets and samples in situ throughout the year, Jean-Louis Étienne and his team have designed a station that drifts around Antarctica like a satellite, driven by the circumpolar current.



12 countries involved

4

scientific objectives

24,000 kilometres to cover

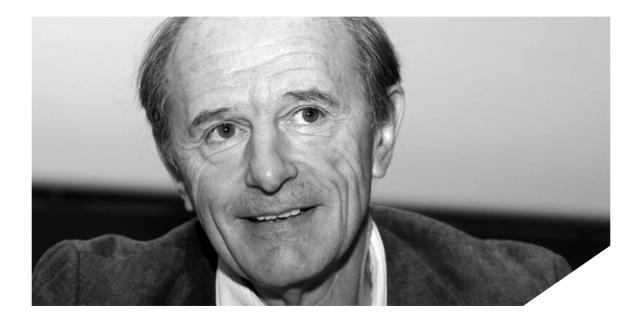
43

scientific institutions

8

crew members on board the Polar POD

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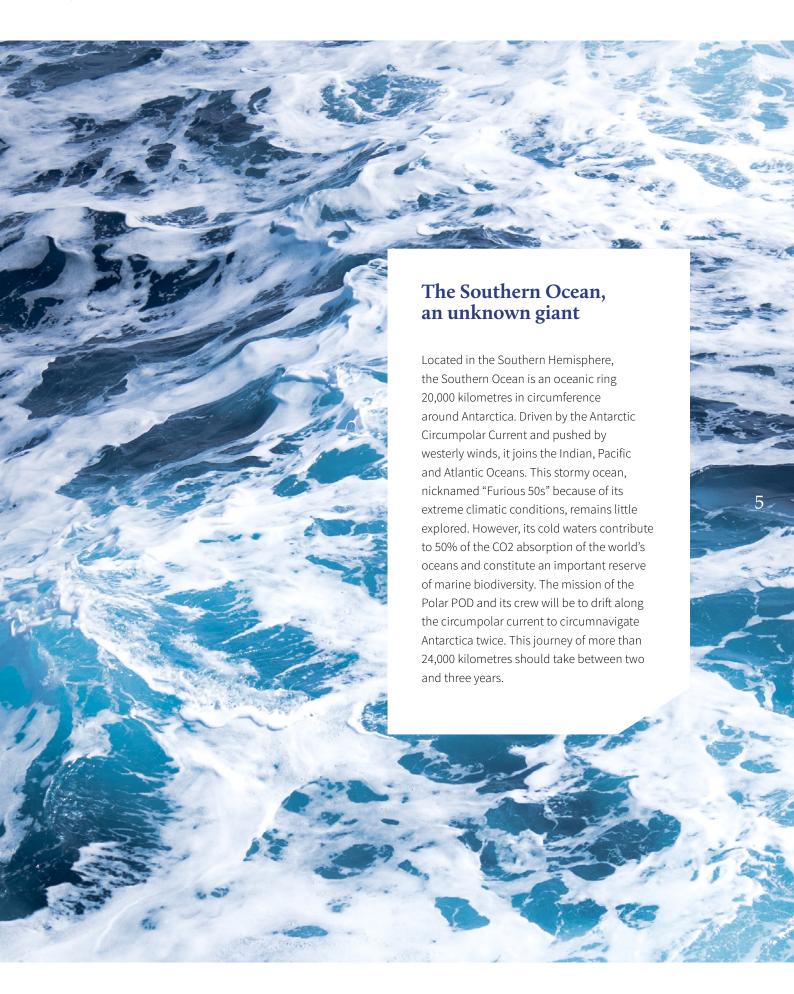


The mad idea of an insatiable adventurer

As a doctor specialising in sports biology and nutrition, Jean-Louis Etienne quickly put his skills at the service of a dream: to explore and survey the world. After several Atlantic crossings, he embarked in 1977 on Eric Tabarly's boat for the Round the World Race. He then took part in numerous expeditions to the Himalayas, Patagonia and Greenland, before embarking on his first major personal adventure on 14 May 1986, becoming the first man to reach the North Pole solo by pulling his own sled for 63 days. He then successfully completed the longest Antarctic crossing ever and led several educational expeditions with the aim of raising awareness of the polar regions and

understanding their role in life and climate. In the spring of 2002, Jean-Louis Etienne carried out the Banquise Mission, a three-month drift on the North Pole ice floe for a programme of measurements and information on global warming. In 2004, he led an expedition to Clipperton Island to carry out an inventory of the biodiversity and environmental status of this French atoll in the Pacific. He then became Director General of the Oceanographic Institute - Albert 1st Prince of Monaco Foundation between 2007 and 2008, before making the first crossing of the Arctic Ocean in a balloon in 2010. The Polar POD expedition, a long-standing project, is his «cathedral» and the culmination of a lifetime of service to discovery and science.













A revolutionary scientific expedition

The data and observations made by the Polar POD crew will be made available to the international scientific community and the general public. The data are based on 4 research areas:



Atmosphere-sea exchanges:

to accurately measure the CO₂ absorption capacity of the Southern Ocean in all four seasons.



Ground truth for Earth observation

satellites: calibrating the measurements made by the satellites from observations made on the ground (weather conditions, sea state, wind and waves and ocean colour)



Census of marine life: using highly sensitive hydrophones to capture the underwater sound universe, analysis of micro-organisms and observations of seabirds



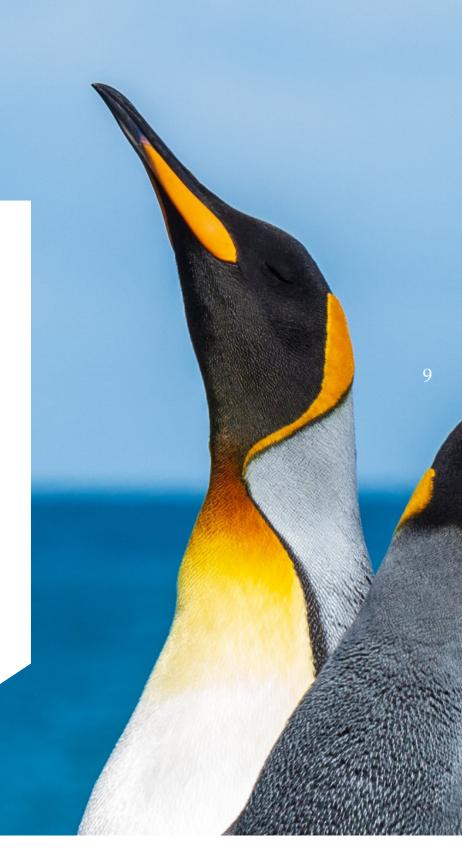
Measuring anthropogenic impacts:

although very remote, a wide range of anthropogenic pollutants have been detected in the Southern Ocean



An educational ambition, to make people dream in order to raise awareness

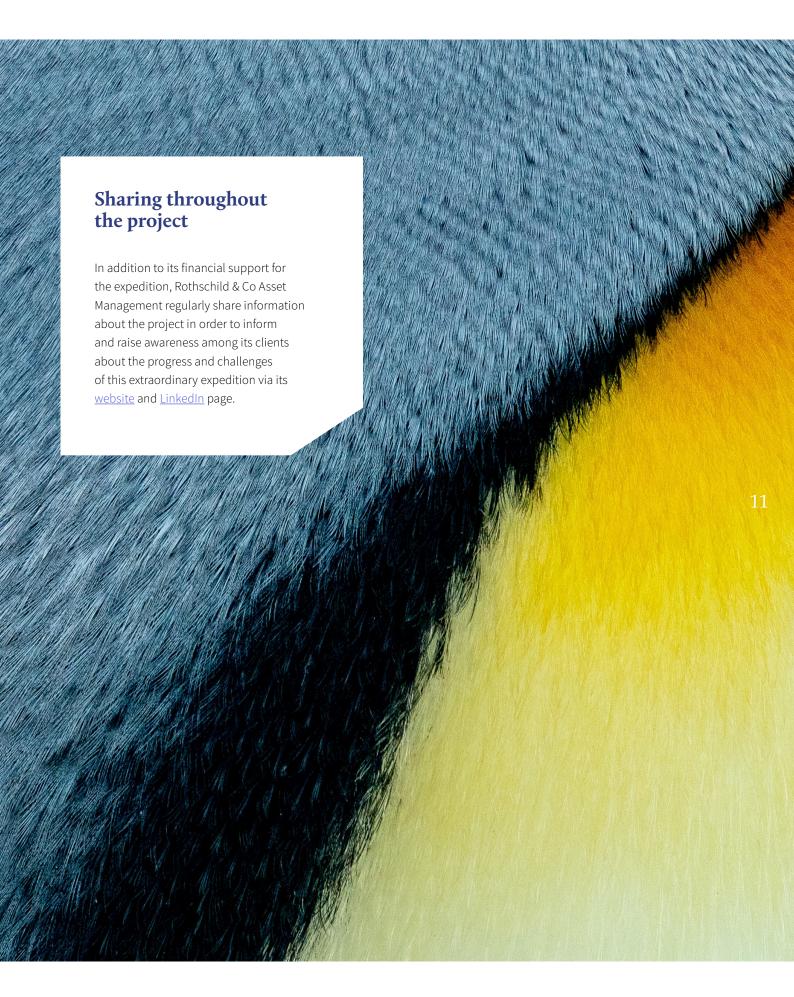
Beyond its scientific aspect, the expedition will also aim to offer the educational community the opportunity to follow an expedition related to the theme of climate change and marine biodiversity from day to day. Through a programme built in consultation with the French Ministry of Education, Polar POD will be an opportunity to run an international educational project on Earth and Environmental Sciences in collaboration with the International Union for Conservation of Nature (IUCN) in "real time". On land, a minibus dedicated to the expedition will criss-cross France to meet schools, colleges and places of scientific, technical and industrial culture.













2012

Jean-Louis Etienne imagines the project

2015

Launch of the project

2021

Launch of the tender process for the construction of the ship

2022

Setting up of the pedagogical tools and the educational programme

Construction of Perseverance begins

2023

Persévérance launches, starts trials and cruises

Start of PolarPODibus tours

2024

Launch of the Polar POD project

2025

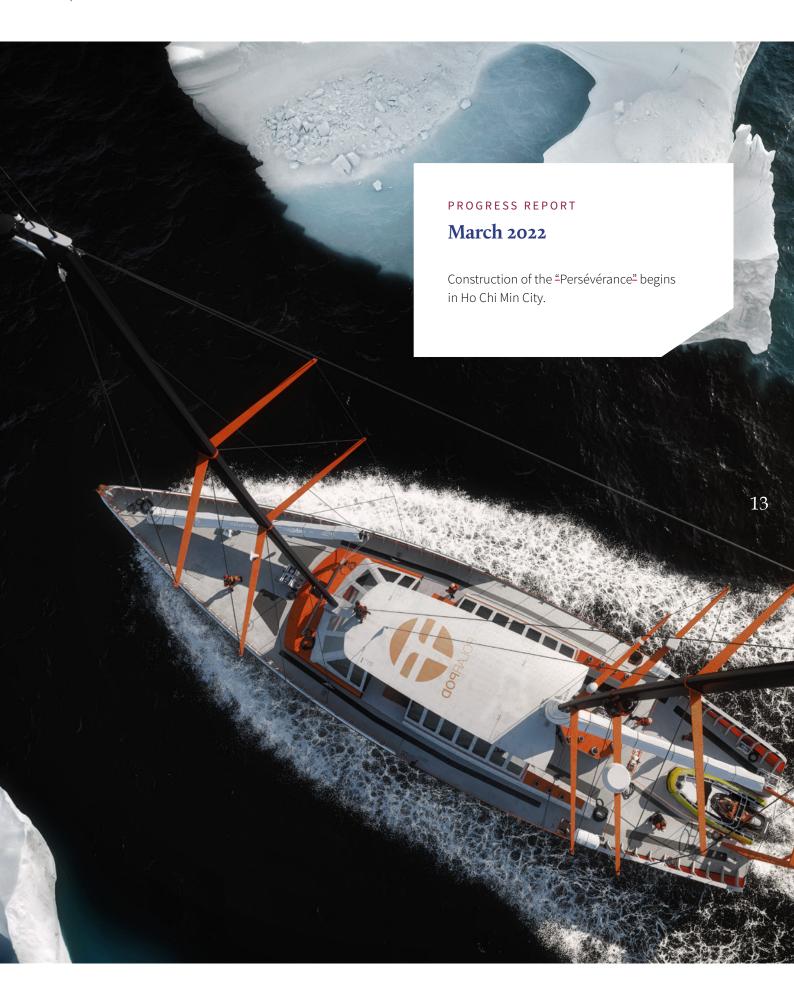
Sea trials of the Polar POD and launch of the expedition

2025 - 2028

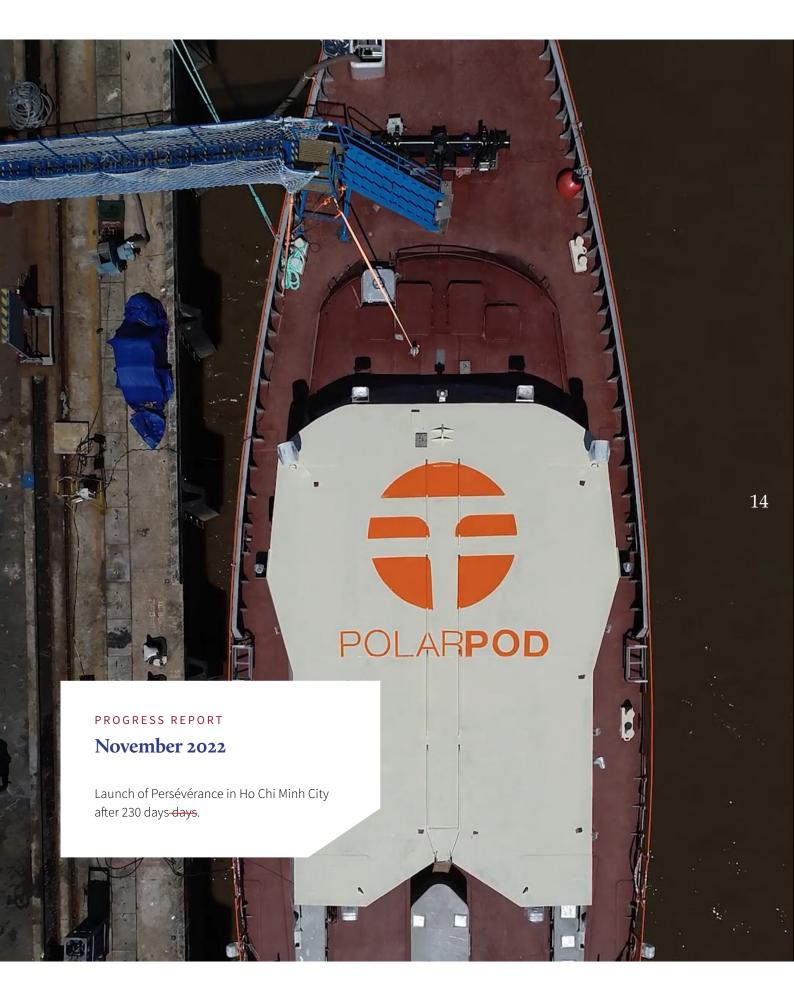
Antarctic circumnavigation



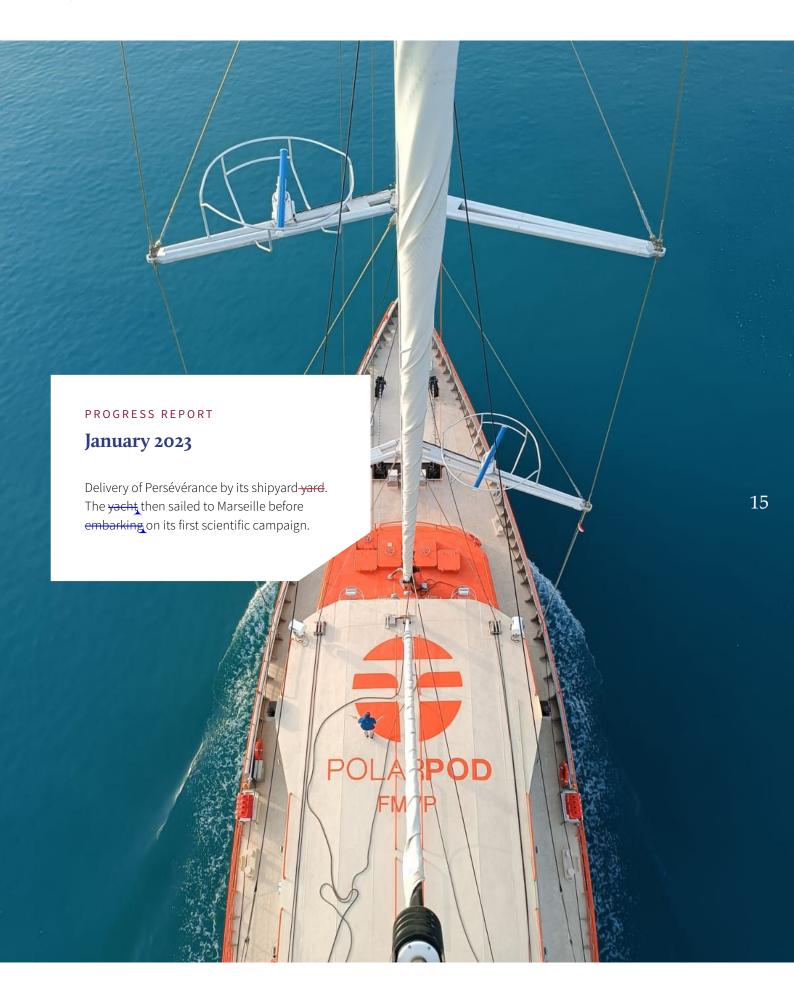














PROGRESS REPORT

January 2023

The PolarPODibus begins its educational campaign in secondary schools in across France.

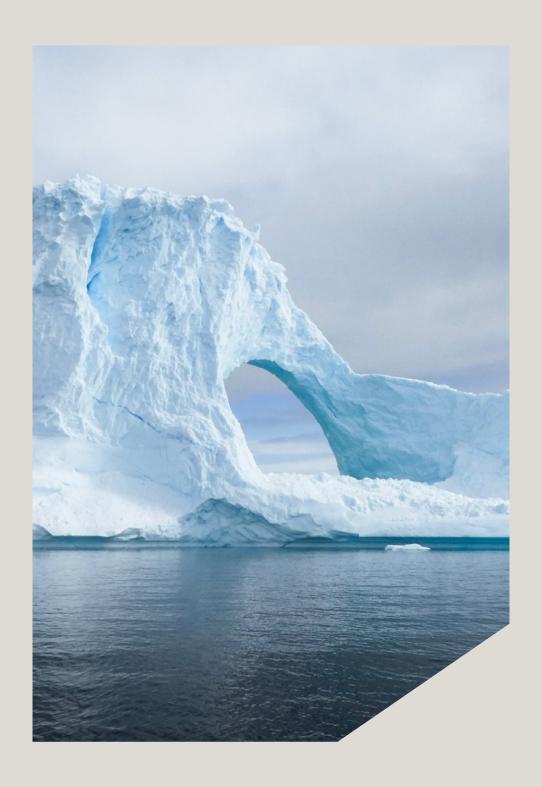












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