



Arctic

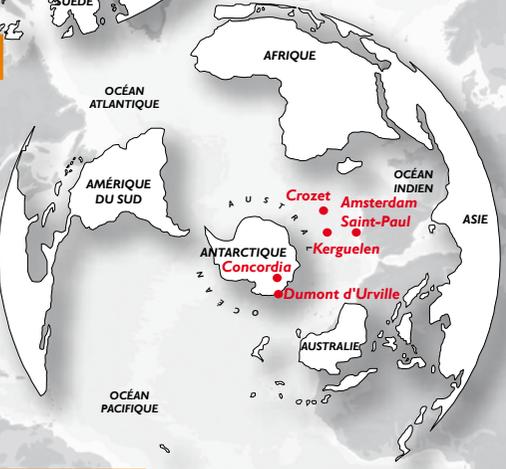
An ocean surrounded by sovereign countries

15 million square kilometers of ice in winter

Antarctic

A continent of 14 million square kilometers covered by an average of 2000 m of ice and surrounded by the vast Southern Ocean.

It is dedicated to peace and science. (Antarctic Treaty)



Subantarctic islands

Crozet Archipelagos, Kerguelen Islands, Saint-Paul and Amsterdam Islands.

Three research stations and the largest nature reserve in France, managed by the TAAF.



The IPEV is a Public interest group (GIP) with the following French organizations as members: Ministry of higher education and research (MESR), Ministry of foreign and european affairs (MAEE), Centre national de la recherche scientifique (CNRS), Institut français de recherche pour l'exploitation de la mer (Ifremer), Commissariat à l'énergie atomique (CEA), Centre national d'études spatiales (CNES), Météo-France, Terres australes et antarctiques françaises (TAAF), Expéditions polaires françaises (EPF)

INSTITUT POLAIRE FRANÇAIS PAUL-EMILE VICTOR

Technopôle Brest-Iroise
CS 60075
29280 Plouzané - France
Phone : +33 (0)2 98 05 65 00
Fax : +33 (0)2 98 05 65 55
Mail : communication-ipev@ipev.fr
www.institut-polaire.fr



Siège de l'IPEV à Plouzané

French Polar Institute **IPEV** Paul-Emile Victor

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Southern polar regions are the heart of the mechanisms affecting the future of the planet. These are key areas to understand how climate operates and assess the consequences of changes on ecosystems.

Each year, IPEV, the lead agency for conducting and supporting research in the polar regions selects, coordinates and implement more than sixty terrestrial programs and implements a dozen of oceanographic campaigns aboard the *Marion Dufresne*. More than forty teams (universities and research institutions), request, each year, resources and the expertise of the IPEV to work in the polar regions.

Scientific infrastructures adapted to the work conditions in polar regions



Base Rabot, AWIPEV at Ny-Alesund



Base of Port-aux-Français (Kerguelen)



Base of Dumont d'Urville



Station Concordia

Located in the most northern island group of the Arctic in Ny-Alesund, the international scientific village, the Franco-German base of Svalbard, AWIPEV, can support researches in different fields with optimal conditions, including life sciences and atmospheric sciences.

Administered by the Terres australes et antarctiques française (TAAF), the Crozet Archipelago, the Kerguelen Islands, St. Paul and Amsterdam Islands, accomodate three permanent scientific bases resupplied four times a year by the *Marion Dufresne*. These islands are unique observatories for climate change and ecosystems functioning.

In Antarctica, the coastal base Dumont d'Urville, created in 1956, and the French-Italian base Concordia opened in 2005 in the heart of the continent, provide the scientific community with opportunities for observations and outstanding research. Resupplied of the Concordia base is ensured by a system of heavy ground convoys from Dumont d'Urville (raid).

Vessels for bases resupply and oceanographic research

Among the largest oceanographic vessels of the European fleet, the *Marion Dufresne* ensures the supply of the southern islands from Reunion Island, where the TAAF HQ is located. During 217 days a year, this vessel hosts oceanographic campaigns implemented by the IPEV on all seas.

L'*Astrolabe*, a sea ice class vessel, resupplies the Terre Adélie from Hobart port in Tasmania and also allows the realization of coastal oceanographic campaigns.

Technical and logistical support a large range of scientific domains

- Glaciology
- Chemistry and dynamics of the atmosphere
- Earth physics, geodynamics and geology
- Astronomy
- Distribution of fauna, flora and biodiversity change
- Strategies for survival and adaptation of species to extreme conditions
- Response of organisms to climate change and human activities
- Human biology and adaptation to wintering

Marion Dufresne



L'*Astrolabe*

