



Arctic

An ocean surrounded by sovereign countries
15 million square kilometers of ice in winter

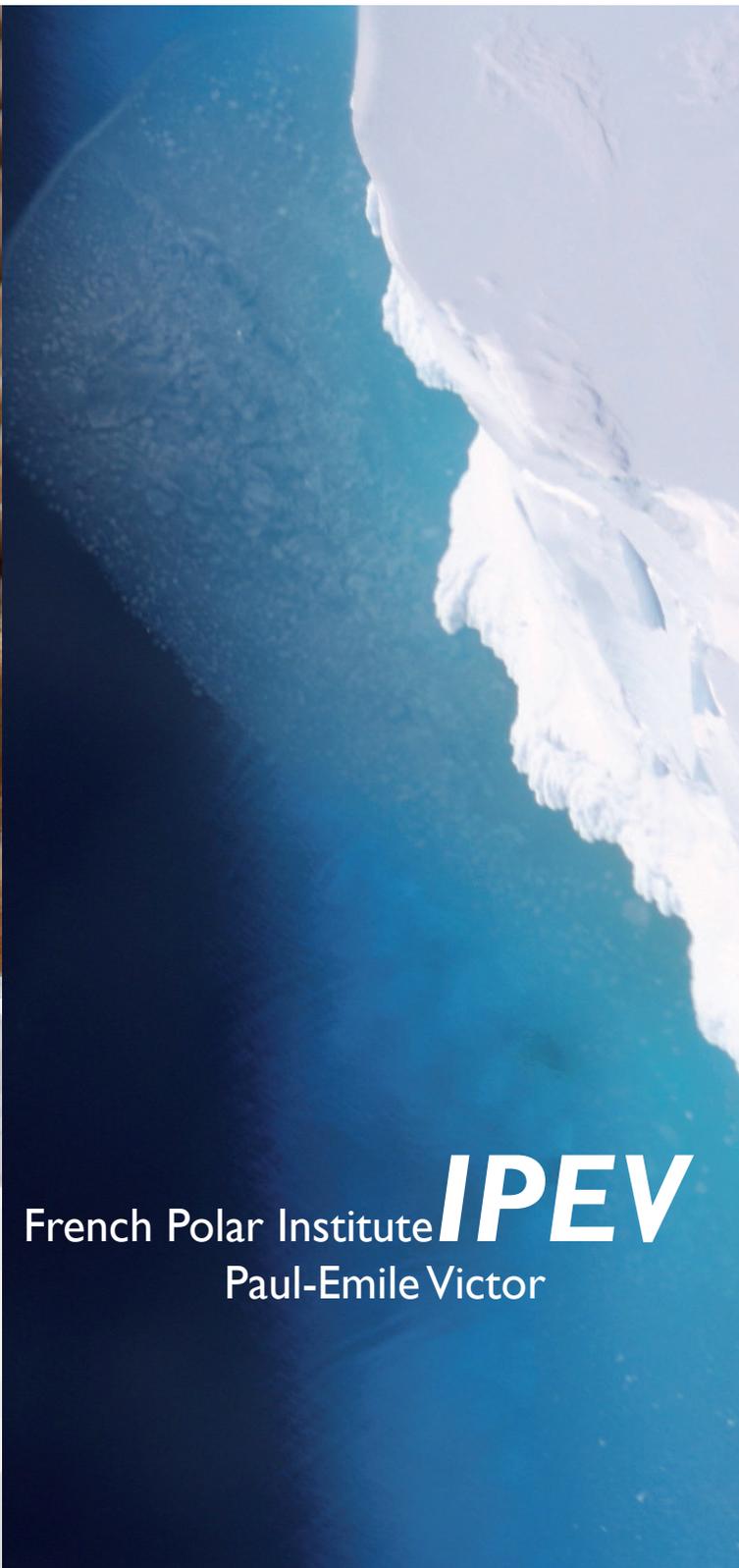
Antarctic

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.



IPEV headquarter in Plouzané

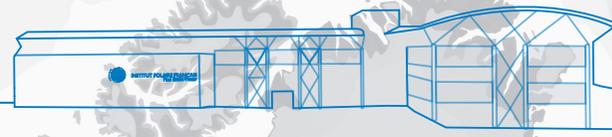


The IPEV is a public interest group (GIP) with the following french organizations as members: Ministry of higher education and research (MESR), Ministry of foreign affairs and international development (MAEDI), Centre national de la recherche scientifique (CNRS), Institut français de recherche pour l'exploitation 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)

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THE FRENCH POLAR INSTITUTE

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 implements more than sixty terrestrial programs. IPEV also implements a dozen of oceanographic campaigns aboard the *Marion Dufresne*. More than forty teams (universities and research institutions) annually request resources and the expertise of the IPEV to work in the polar regions.

Scientific infrastructures adapted to the work conditions in polar regions



Rabot Base, AWIPEV at Ny-Alesund



Base of Port-aux-Français (Kerguelen)



Dumont d'Urville Base



Concordia Station

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

Administered by the Terres australes et antarctiques française (TAAF), the Crozet Archipelago, the Kerguelen Islands and St. Paul and Amsterdam Islands accommodate 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 of 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 station 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 Adelie 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 changes
- 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

