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PAUL ÉMILE VICTOR



UPDATE FOR FRANCE

30 MARCH 2020



Overview of existing infrastructures

THE FRENCH-GERMAN RESEARCH STATION IN SPITSBERGEN

AWIPEV^{N.61}

Arctic Research Base Ny-Ålesund



**Rabot station at Ny-Ålesund
2018**



**French station CORBEL close to Ny-Ålesund
2019**

Mobile infrastructure : research aircrafts



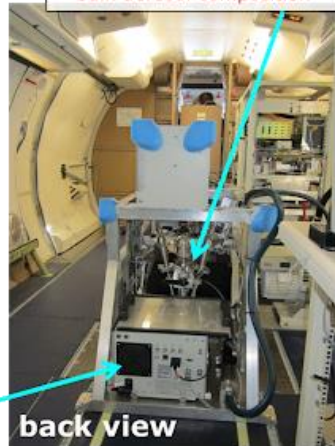
3- λ nephelometer
integrated scattering and backscattering
coefficients @ 450,550,700 nm



7- λ aethalometer
absorption coefficient
@370,470,520,590,660,
880,950 nm

side view

2 lines filter sampling
1 cascade impactor
bulk aerosol composition



back view

CPC (Condensation Particle Counter)
particle number concentration
4 nm-3.0 μ m diameter

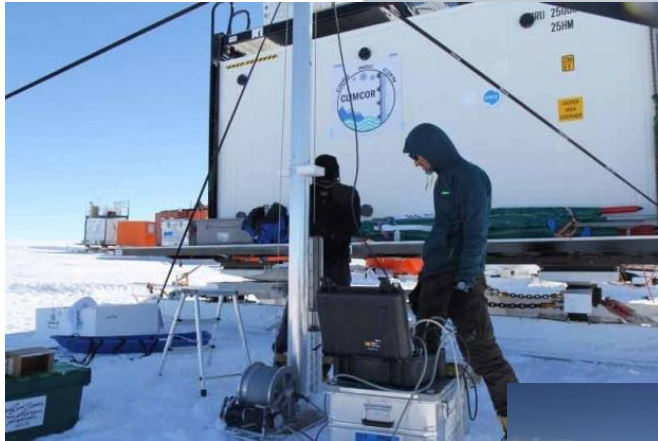


Specific tools : snow/ice drilling/coring



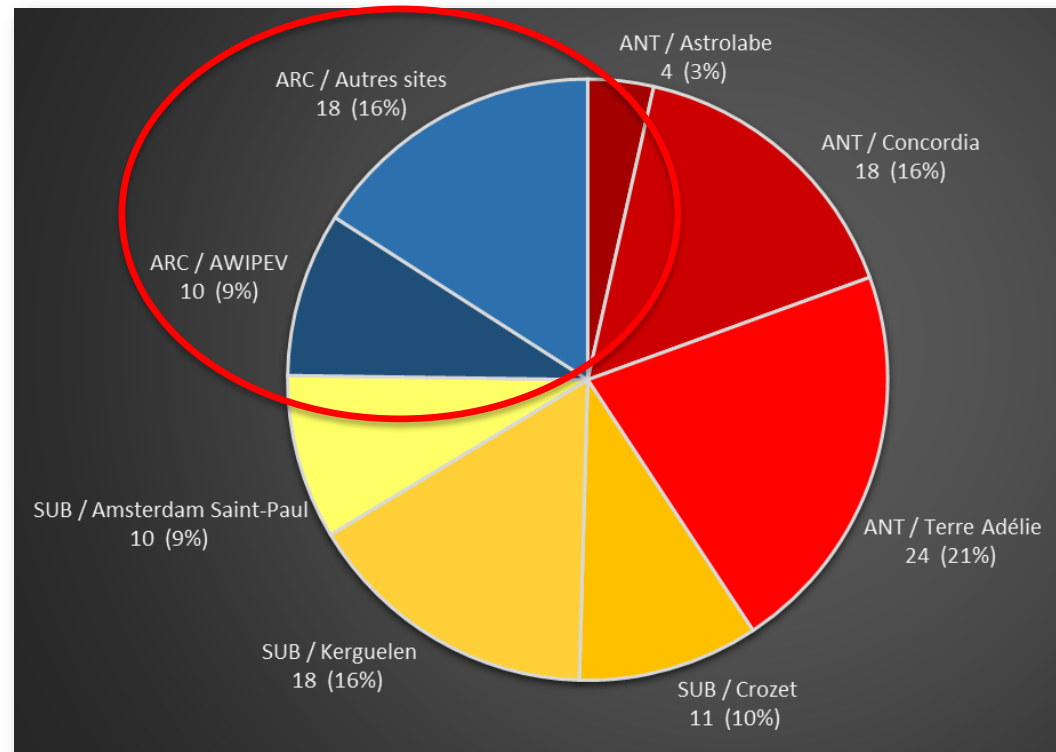
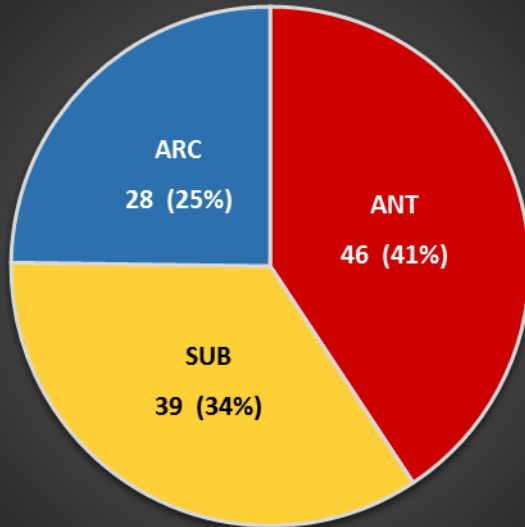
CLIMCOR - ICE

National Centre for
coring and drilling -
ICE



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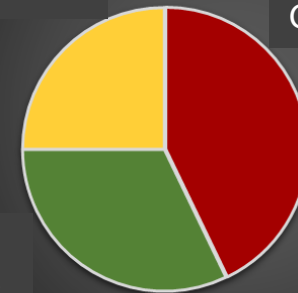
Number of field campaigns 2020/2021



Human sciences

Geosciences

Life
sciences



Terre / Univers

Ecologie / Environ.

Homme / Société


Financial support for our national infrastructures

- AWIPEV : long term (IPEV support)
- Projects elsewhere in the Arctic : short term (IPEV or ANR calls)
- Aircrafts or coring/drilling tools : long term + short term (user fees)
- Trans-National Access : driven by projects (collaborators included beforehand) ; if French funding, PI has to be affiliated to a French research unit



Number One operational challenges

- Advancing new technologies : setup of a national workshop together with scientists involved in engineering
- Access : discussions with Amundsen Science
- Limited funding for access : expected “PPR” (Ministerial multiannual planning for research) devoted to the oceans, including the Arctic ocean

A photograph of an ice cave. The cave is formed by large, jagged ice formations that create a narrow, winding path. The walls and ceiling of the cave are covered in intricate ice patterns, including stalactites and stalagmites. The lighting is dim, with a bright light source at the end of the path, creating a strong contrast and highlighting the textures of the ice. A small figure of a person in a red jacket is visible in the distance, standing on the path. The overall atmosphere is cold and mysterious.

Thank you for your attention