



INSTITUT  
**POLAIRE**  
FRANÇAIS  
PAUL ÉMILE VICTOR



# UPDATE FOR FRANCE

30 MARCH 2020



# Overview of existing infrastructures

## THE FRENCH-GERMAN RESEARCH STATION IN SPITSBERGEN

**AWIPEV**<sup>79°N</sup>

Arctic Research Base Ny-Ålesund



**Rabot station at Ny-Ålesund  
2018**



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

# Mobile infrastructure : research aircrafts



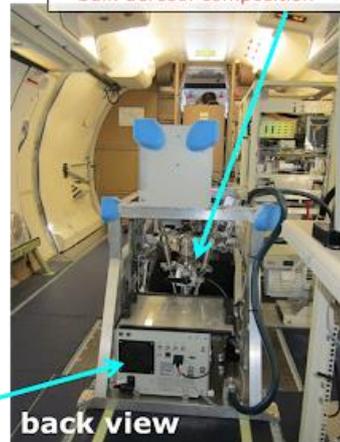
**3- $\lambda$  nephelometer**  
integrated scattering and backscattering coefficients @ 450,550,700 nm



**7- $\lambda$  aethalometer**  
absorption coefficient @370,470,520,590,660,880,950 nm

**CPC (Condensation Particle Counter)**  
particle number concentration 4 nm-3.0  $\mu$ m diameter

**2 lines filter sampling**  
**1 cascade impactor**  
bulk aerosol composition

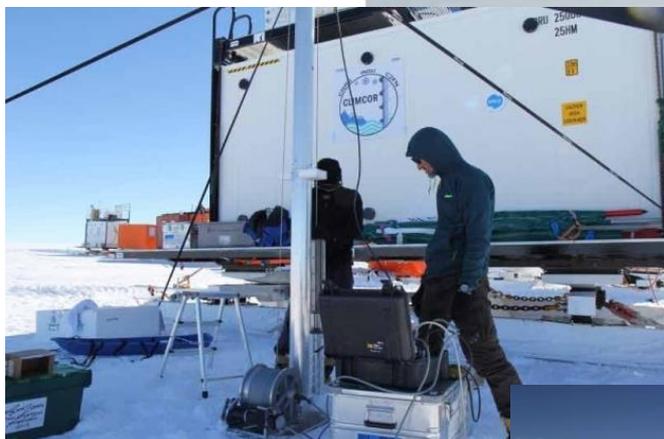


# Specific tools : snow/ice drilling/coring

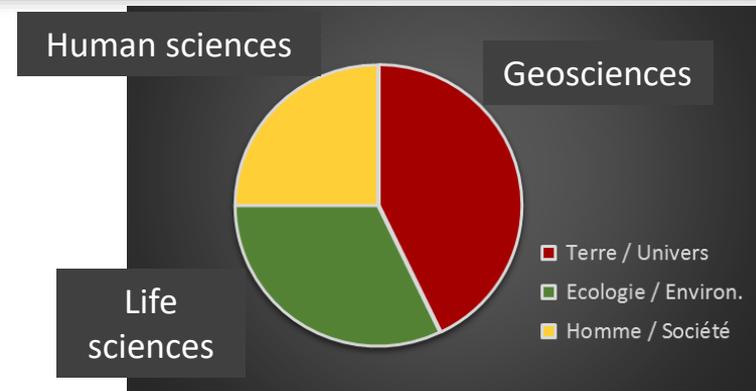
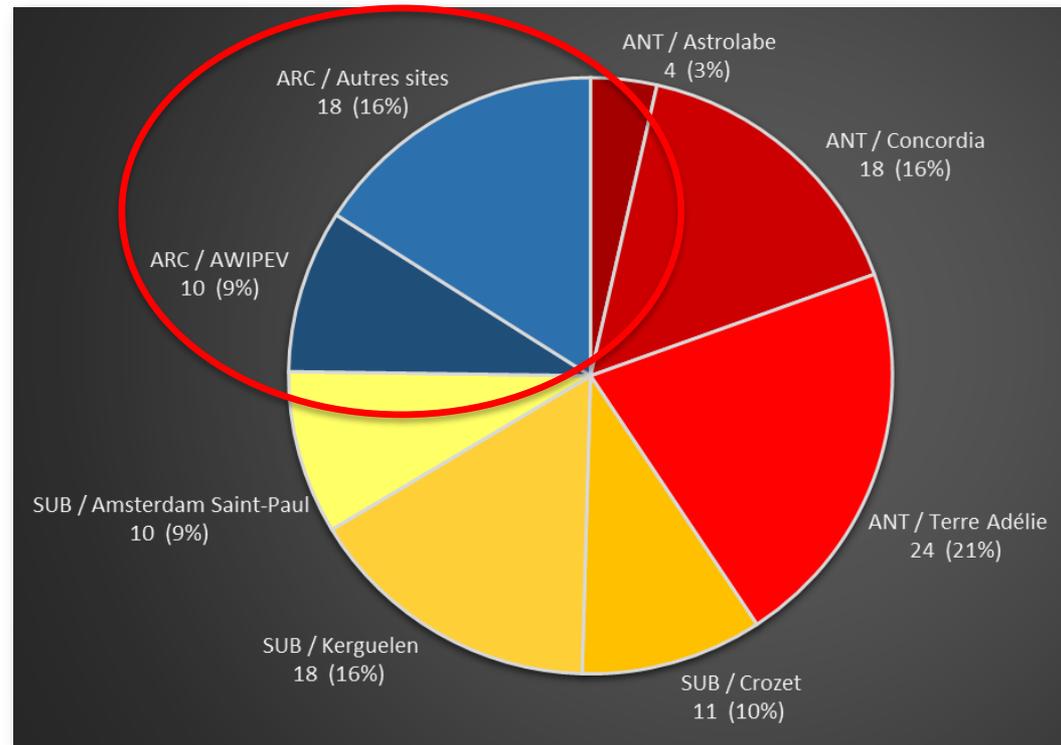
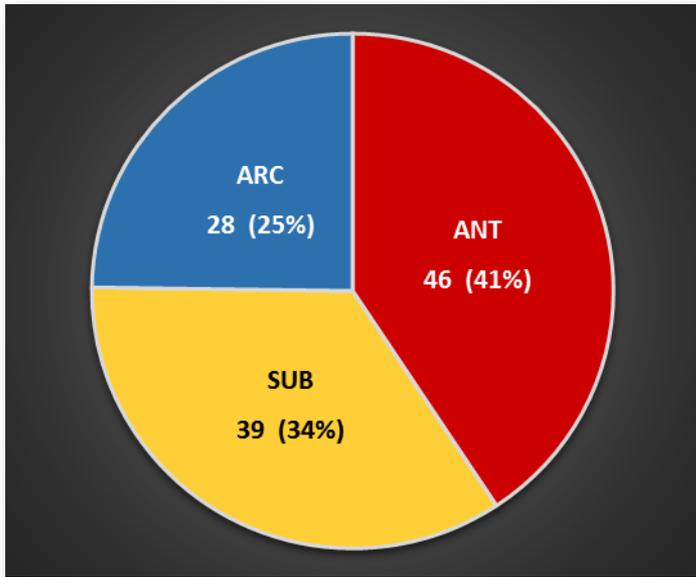


## CLIMCOR - ICE

National Centre for  
coring and drilling -  
ICE



# Number of field campaigns 2020/2021



# 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

**Thank you for your attention**