



26 MARCH 2022

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Overview of existing infrastructures

THE FRENCH-GERMAN RESEARCH STATION IN SPITSBERGEN



Rabot station at Ny-Ålesund 2018

+ International research unit TAKUVIK in Canada





French station CORBEL close to Ny-Ålesund 2019

Mobile infrastructure : research aircrafts









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



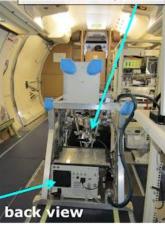
side view

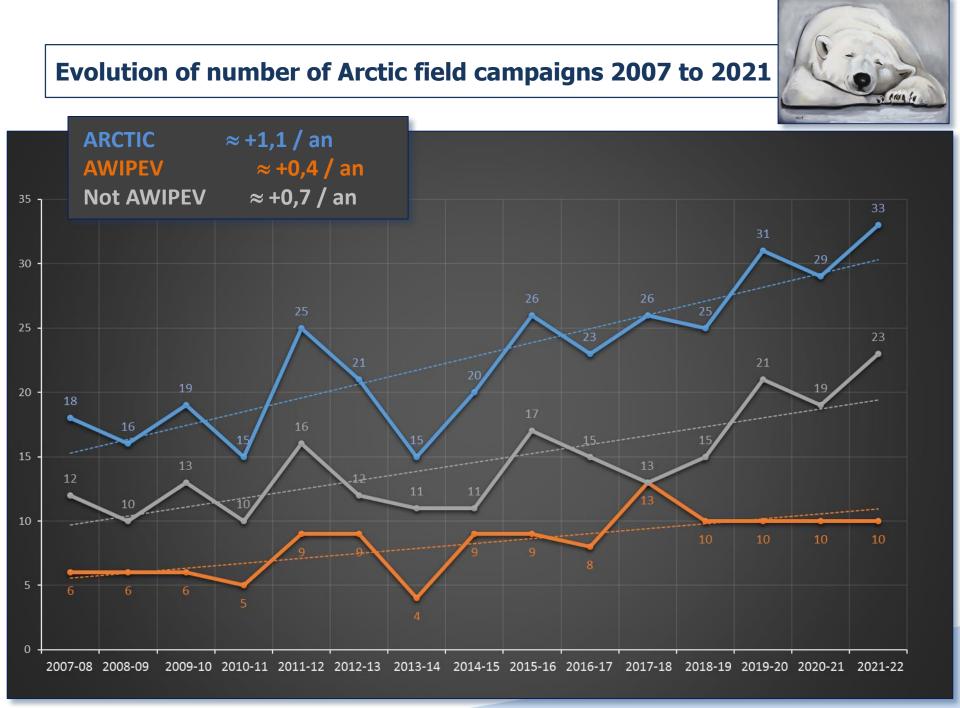
CPC (Condensation Particle Counter) particle number concentration 4 nm-3.0 µm diameter

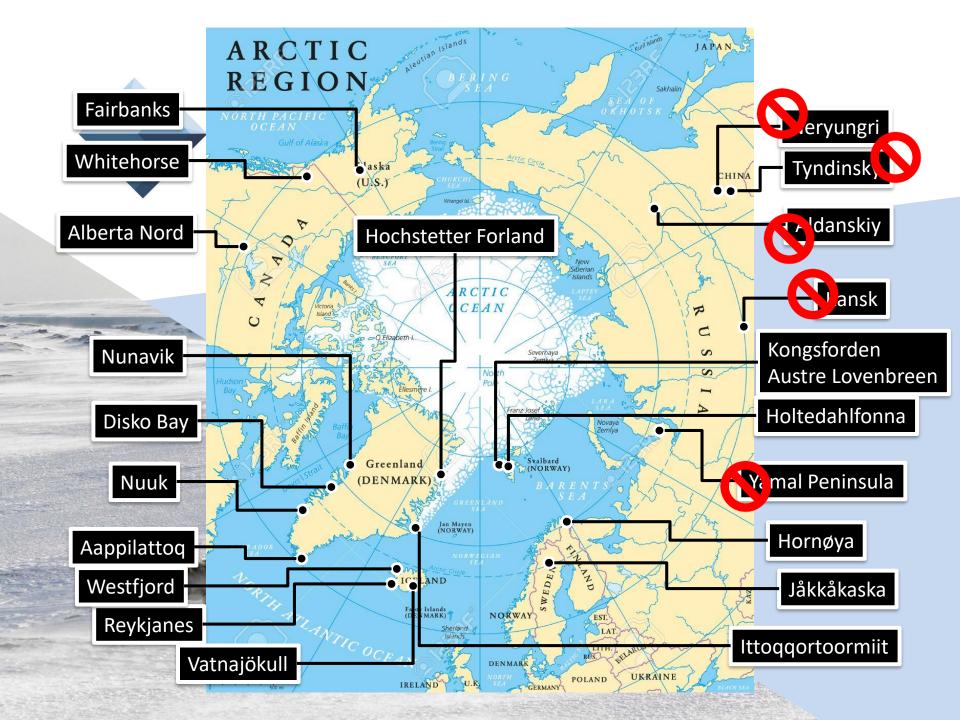


880,950 nm

2 lines filter sampling 1 cascade impactor bulk aerosol composition







New partnership with Canada

- Exchange of services between Amundsen Science (Canada) and the French Oceanographic Fleet deployed in the Atlantic ocean
- Agreement signed in February 2022







New opportunity : the French ice breaker « Le Commandant Charcot »

- Tour operator compagny Le Ponant
- PC2 Class, equipped with dry and wet laboratories
- Up to 4 scientists onboard per cruise, free of charge







Consequences of Covid-19 in 2021

- Quarantine in the South (Antarctica, subantarctic islands)
- More expeditioners compared with business as usual, to compensate the strong reduction in 2020
- 4 dedicated charter flights for our expeditioners from Melbourne to Hobart
- In Svalbard : we sent the usual number of expeditioners



Future of French polar science

- First-ever National Polar Strategy should be released soon by our Prime Minister, based on the contribution for all involved Ministries + the French Polar Institute IPEV
- We expect / hope for more means, including the option for a better investment in the Arctic (supporting new stations ?)
- Partnership with the tour operator Le Ponant

