

Selected Norwegian Arctic Activities

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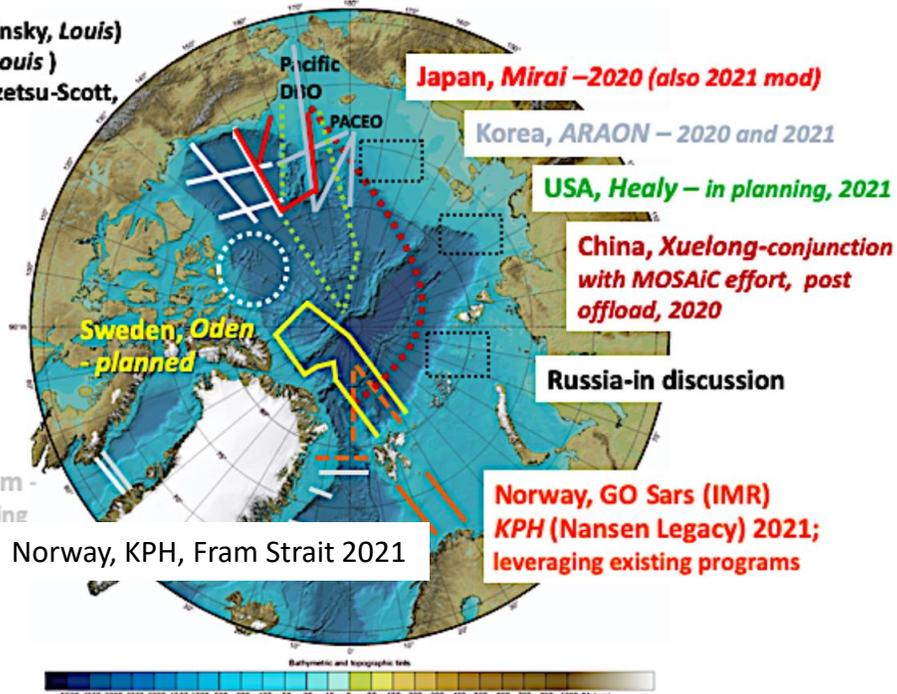
Norwegian contribution to international «Synoptic Arctic Survey»



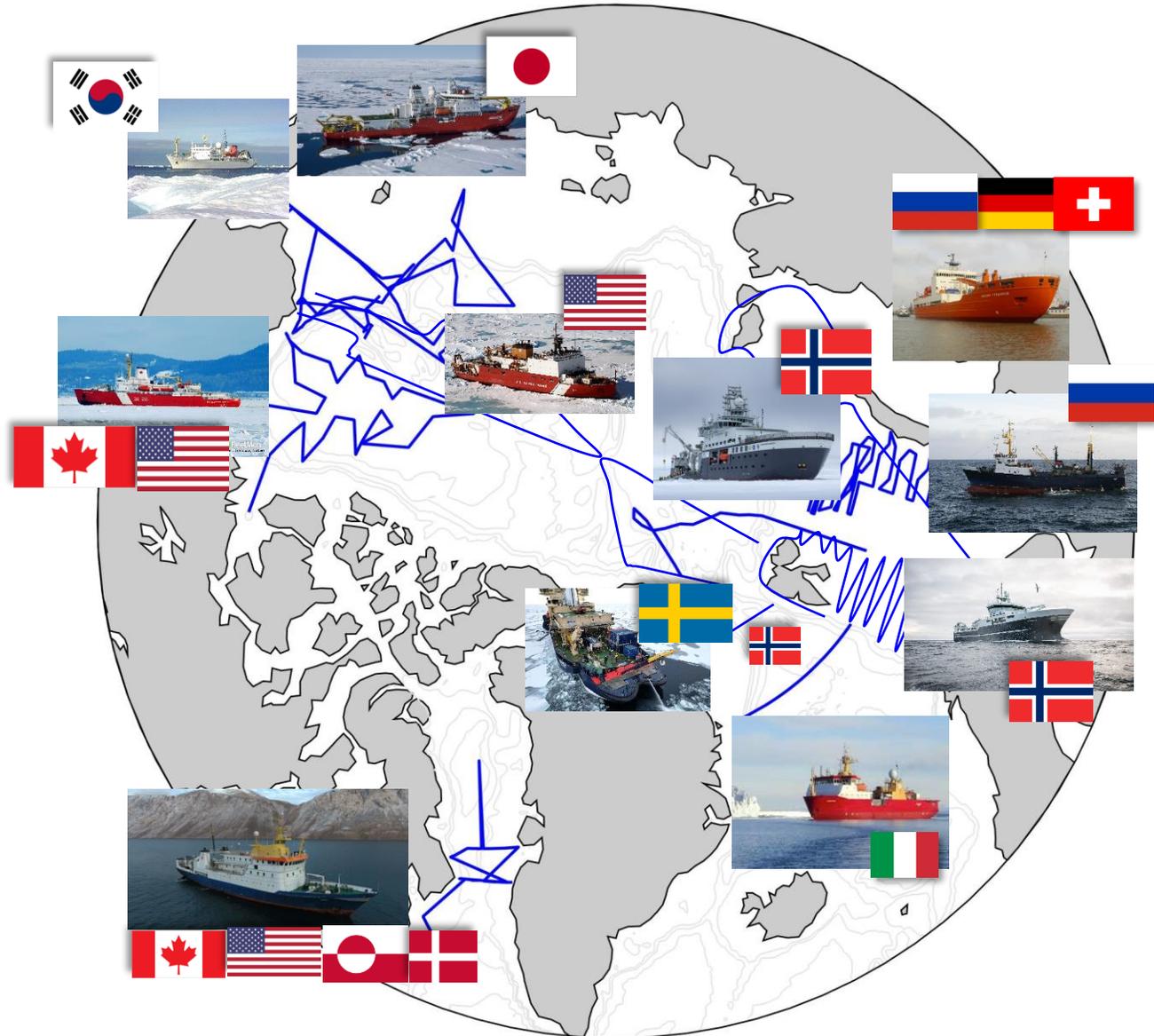
Result 2020-2021

International cruise plan

Canada, USA (white lines) – collaborations, 2020 and 2021:
 JOIS/AON-BGOS
 (Williams/Proshutinsky, Louis)
 LIA-MPA (Michel, Louis)
 Davis Strait (Lee/Azetsu-Scott, Armstrong)



1
 [modified B. Williams and J. Grebmeier, May 2019]



the Nansen LEGACY

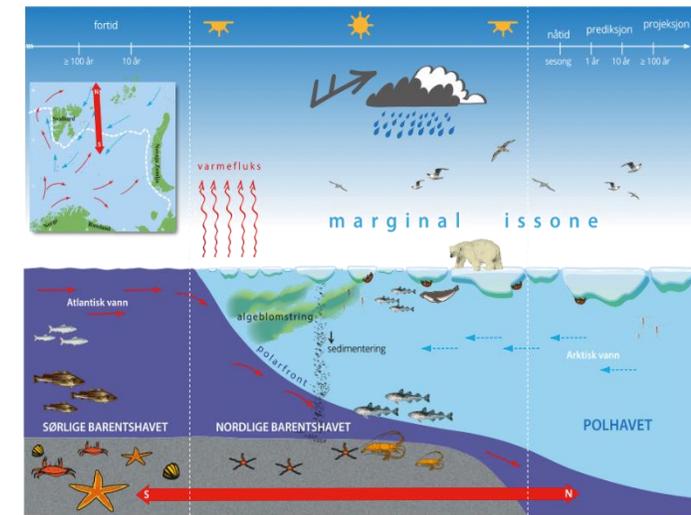


Funded by (2018-2023)



The Nansen Legacy is the collective answer of the Norwegian research community to the outstanding changes witnessed in the Barents Sea and the Arctic as a whole.

An ice-free Arctic is gradually emerging, and the northern Barents Sea is at the epicenter of this change. Home to Norway's richest fisheries, sound sustainable management of the altering northern Barents Sea's ecosystem and marine resources is an urgent societal need and a great scientific challenge.



Eight at one blow – The Nansen Legacy field campaigns in 2021



Winter Process Cruise 2021
Barents Sea Polar Front
Feb 9 – Mar 1



Seasonal Cruise Q1
Barents Sea transect
Mar 2 - 24



Seasonal Cruise Q2
Barents Sea transect
Apr 27 – May 20



ARCTOS-Nansen Legacy Polar Front summer school cruise
Barents Sea Polar Front
May 14 - 22



Summer Joint Cruise 2-1
Barents Sea transect
Jul 12 - 26



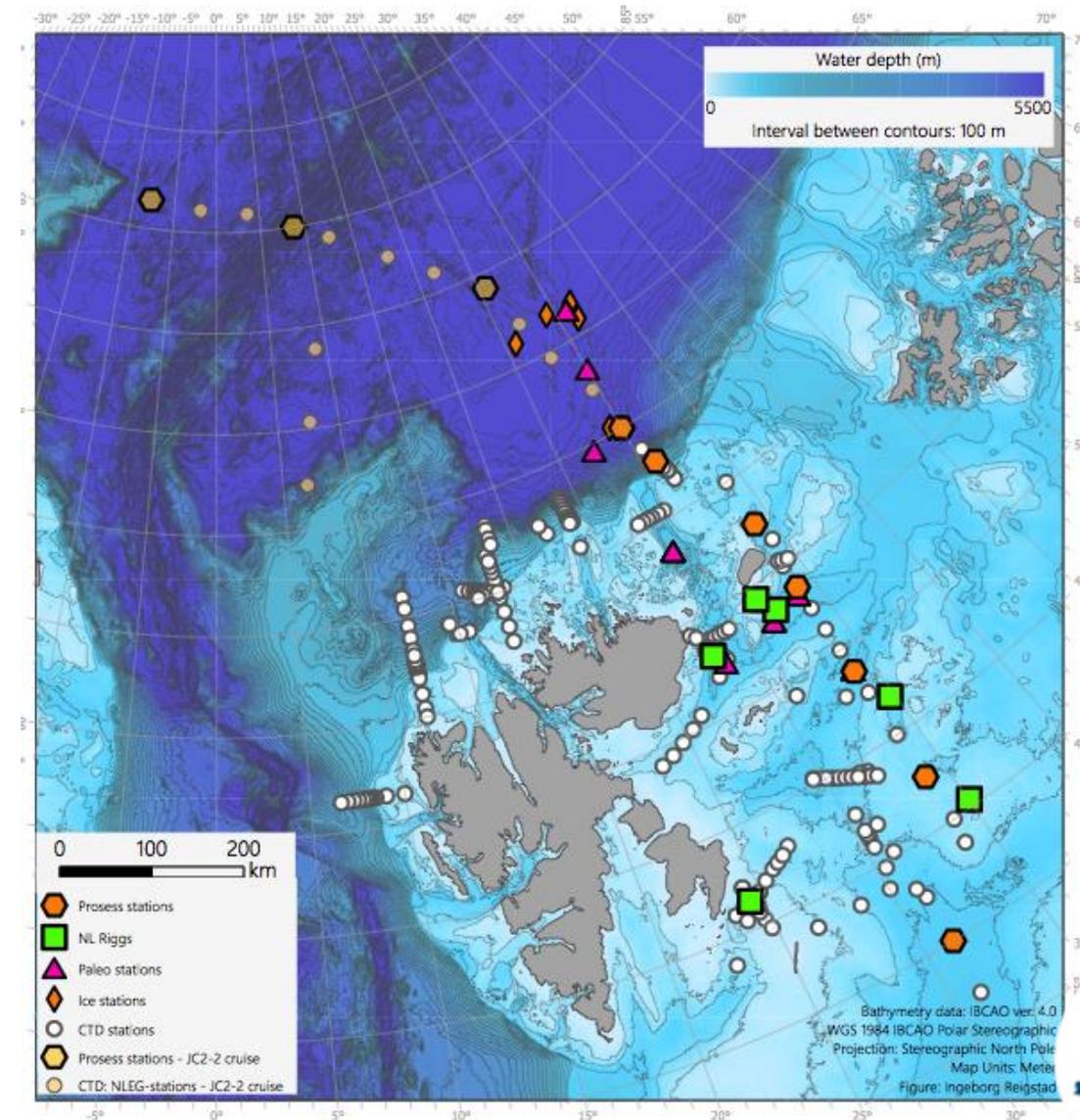
Arctic Basin Joint Cruise 2-2
Nansen & Amundsen Basin
Aug 24 – Sep 24



Nansen Legacy / A-TWAIN Mooring Cruise
Northern Barents Sea
Nov 6 - 16



Mooring Cruise - Second Part
Central Barents Sea
Dec 2 – 10





The Nansen Legacy field campaigns in 2022



Winter Cruise
Barents Sea transect
Feb 19 – Mar 11



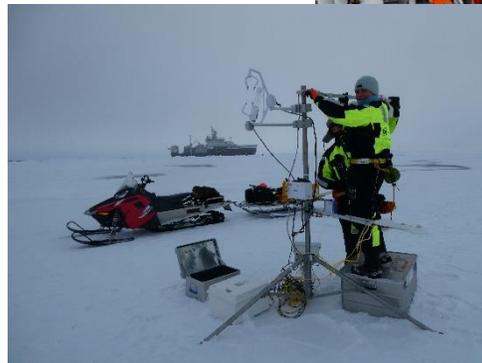
Polar Front Studies
Barents Sea Polar Front
Sep 28 – Oct 13



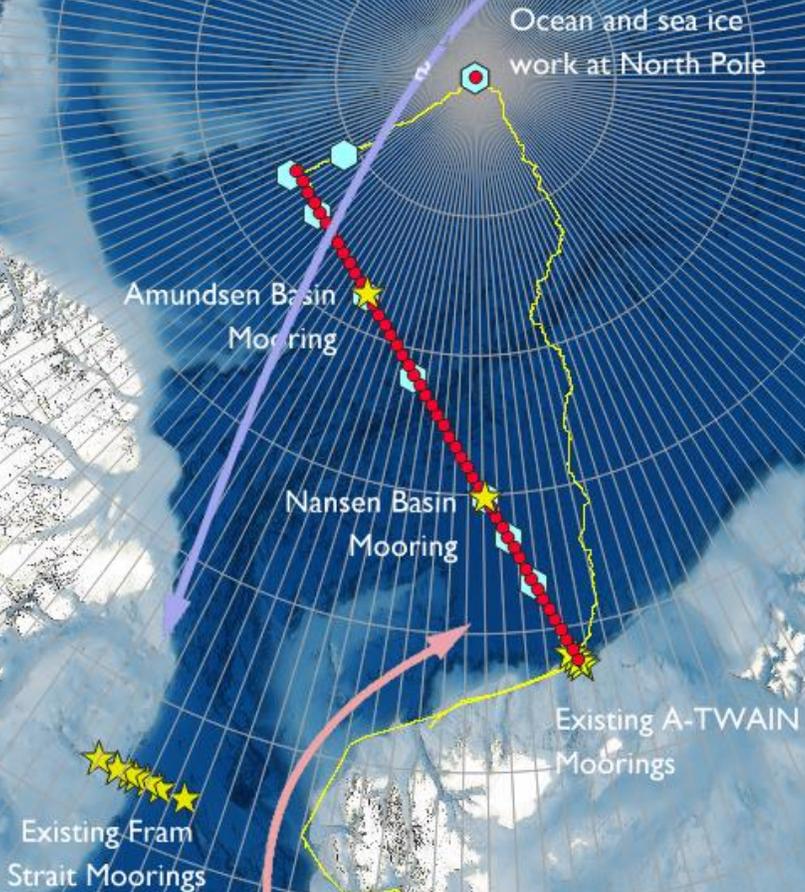
Mooring Service Cruise
Northern Barents Sea
Oct 3-13



Polar cod-capelin connectivity
Barents Sea
Nov 12-21



2022 NPI Arctic Ocean cruise



A New Central Arctic Observing System

- Until recently it has only been possible to collect long-term measurements at the peripheral straits.
- NPI has collected measurements at the Fram Strait gateway for more than 30 years.
- The retreating ice cover and availability of modern ice breakers now make possible to establish a long term measurement program in the Central Arctic.
- A purpose of the *2022 Arctic Ocean cruise* was to develop a new long-term observing system in the Central Arctic based around two new moorings

Fram Centre project: Sustainable development of the Arctic Ocean (SUDARCO) (2022-2026)

Aim: produce an integrated assessment of the risks to present and future value chains and ecosystem services in the study region and communicate the management implications to relevant stakeholders



[Project manager: Paul.Dodd@npolar.no](mailto:Paul.Dodd@npolar.no)



Establishment of an autonomous Central Arctic observatory consisting of an oceanographic mooring and annual deployments of ice-tethered drifting platforms. [English - Framsenteret](#)



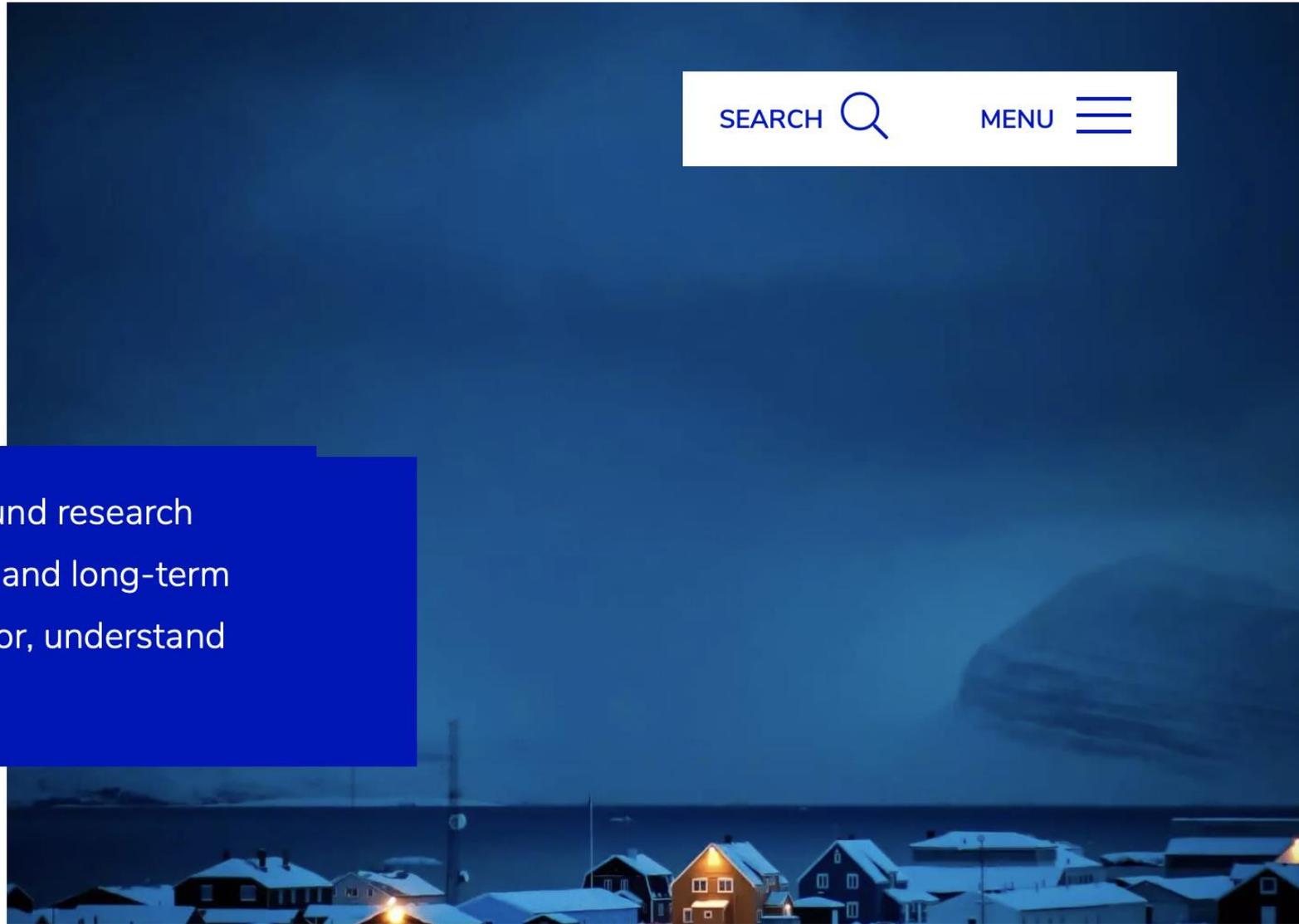
Ny-Ålesund
Research Station
Norway

SEARCH 

MENU 

Ny-Ålesund is the world's northernmost year-round research station, facilitating and hosting research projects and long-term observation series. We make it possible to monitor, understand and explain Arctic systems and global changes.

<https://nyalesundresearch.no/>





Ny-Ålesund Research Station, 2021

NPI activity (researcher days)

- Up 30 % from 2020 (720 days) to 2021 (934 days). (Permanent staff in Ny-Ålesund not included.)
- Relative proportion reduced from 46 % in 2020 to 28 % in 2021, primarily due to an increase in the number of research days by international researchers hosted by NPI

Corona impact on activity less pronounced in 2021 vs 2020

- Easing of restrictions
- Increased willingness by researchers to spend time in quarantine prior to travelling to Svalbard and Ny-Ålesund to carry out projects postponed from 2019 and 2020.





Ny-Ålesund Research Station, Post-covid

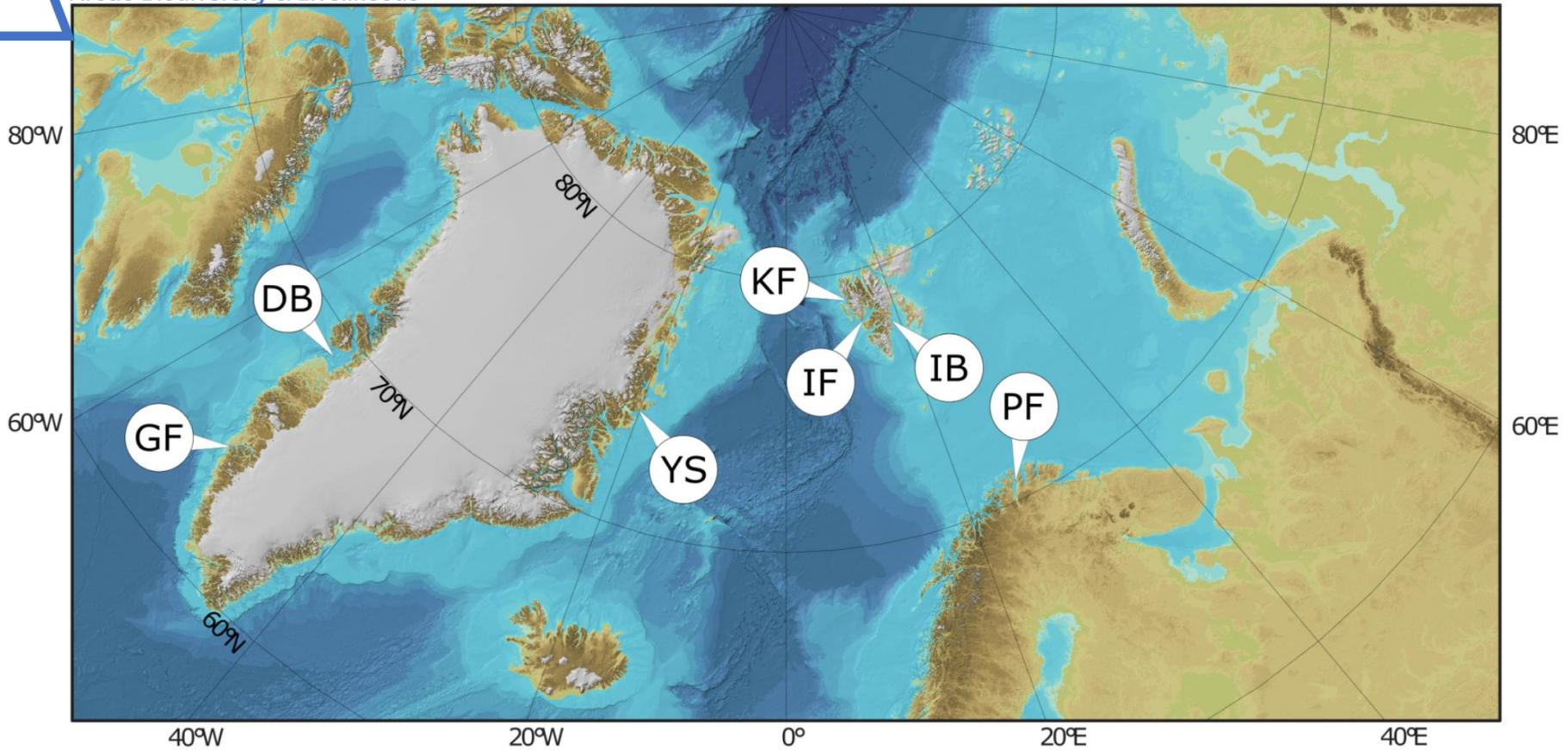
- **Travel restrictions lifted**
 - Norwegian mainland and Svalbard
- **Activity moving towards a normal situation**
 - Research and environmental monitoring
 - Official visits
 - Activity by Asian institutions still at a lower level than pre-covid





FACE-IT

Arctic Biodiversity & Livelihoods



<https://www.face-it-project.eu>



Thank you!

