

Swedish Polar Research Secretariat 2024

FARO, ASSW, Edinburgh

Åsa Lindgren

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**POLARFORSKNINGS
SEKRETARIATET**

SWEDISH POLAR RESEARCH SECRETARIAT

General updates

- **ARTofMELT expedition 2023 – science workshop in Stockholm April 2024**
- Study of atmospheric rivers of warm air reaching the Arctic in spring and impacting the onset of melt
- **GEOEO expedition North of Greenland 2024** – ongoing planning & preparations
- **Mapping expeditions 2025 – 2027** – joint expeditions with Canada
- **European Polar Board & European Coordination Office** – Sweden new host 2025
- **Cable Connect project**







- Stations and sites**
- ⬢ Land camps
 - ⊕ Temp. buoys
 - ▲ Drift wood
 - Multinets
 - + Lake cores
 - Plankton nets
 - ★ Cores
 - ▶ Dissolved gas sampling
 - CTD
 - ◆ Ecology/ Archeology/ Palaeogenetics
 - XBT
 - ▭ Sea level site

Plan B2
 (severe sea ice in Victoria Fjord, but possible to go North in Lincoln Sea)

Petermann 2015 Expedition
Ryder 2019 Expedition

Petermann Glacier
 Ryder Glacier
 C.H. Ostenfield Glacier



Arctic Ocean

Thule - Svalbard transect

GoNorth 2024

Lomonosov Ridge

Morris Jessup Rise

Atlantic water

Atlantic water

Lincoln Sea

POLAR CONNECT

A new digital route between Europe
and east Asia across the Arctic



Swedish
Research
Council



SWEDISH POLAR
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Information on ICARP activities/contributions

» Engagement in the Research Priority Teams



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Research Priority Teams

Overview of planned vessels/icebreaker capacity, with updates on status and date of availability of the vessels/icebreakers



PROJECT PLAN (PRELIMINARY) NEWBUILDING PROJECT SWEDISH HEAVY POLAR RESEARCH VESSEL (SHPRV)				
YEAR -1	YEAR 0	YEAR 1	YEAR 2	YEAR 3
START » Develop initial design and technical specification » Negotiation of newbuilding contract	CONTRACT SIGNING » Drawing and technical review	ESTABLISH SITE TEAM » Follow up construction work at shipyard		DELIVERY OF SHPRV » Operation of SHPRV

CABLE-LAYING PROJECT POLAR CONNECT			
YEAR 2	YEAR 3	YEAR 4	YEAR 5
PREPARATIONS	SEABED MAPPING SURVEY ONE » I/B Oden	SEABED MAPPING SURVEY TWO » I/B Oden » SHPRV	CABLE-LAYING OPERATION » I/B Oden » SHPRV » Cable-laying vessel I/B Fennica? » Redundancy vessel I/B Nordica?

Tentatively available for collaborations from 2030!

4. Update on modernizing infrastructures in terms of green transitions

Abisko Science Station

- » • As from 2024 the main buildings have geothermal heating
 - » • Most other buildings, up to more than 100 years old, have air-heat exchange systems for heating
 - » • Solar panels on some roofs (with more coming)
 - » • Most cars replaced by electric and plug-in hybrid vehicles
 - » • Separation of all waste
 - » • Environmentally friendly cleaning products
- + the new heavy polar research icebreaker!**

Abisko naturvetenskapliga station

– samlingsplats för ledande internationell klimat- och miljöforskning