

AWIPEV Introduction Seminar 2024

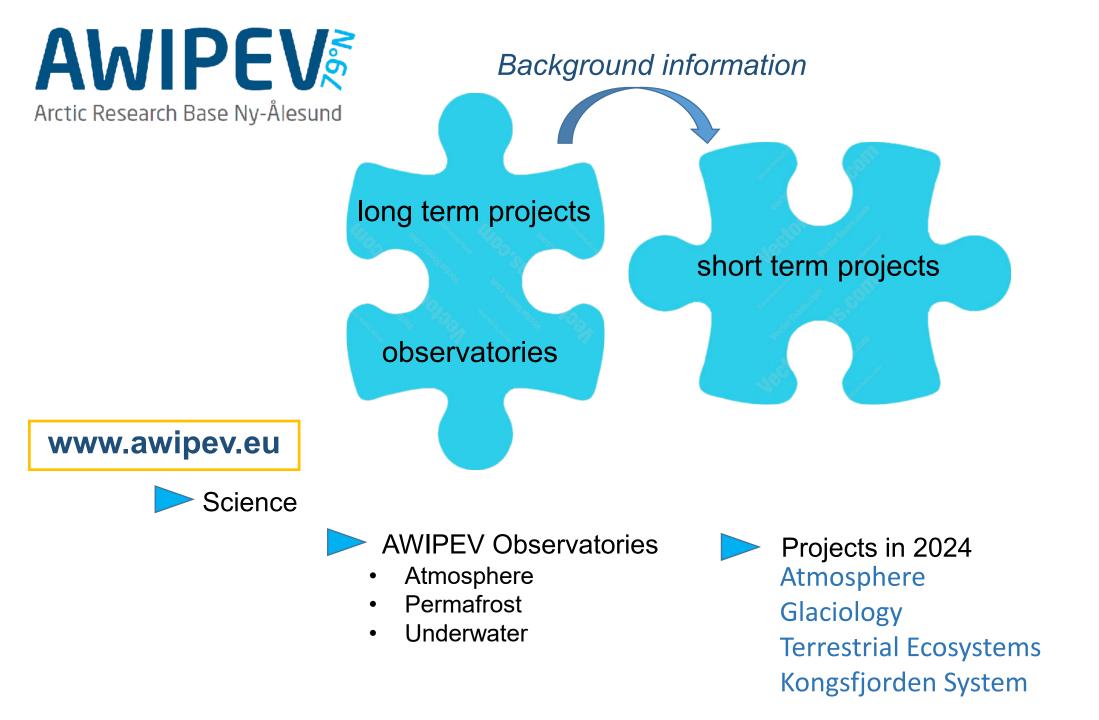
Part II: Science

13 + 14 February 2024

Introduction: General Setting of Research in Ny-Ålesund

Marion Maturilli

THALLA P



AWIPEV is part of the Ny-Ålesund Science Community.

Arctic Research Base Ny-Ålesund





With the introduction of a research strategy for Ny-Ålesund Research Station in 2019, NPI was given the role as the official Norwegian host in Ny-Ålesund.

https://nyalesundresearch.no

Ny-Ålesund Science Managers Committee (NySMAC)

- includes representatives from all parties with major vested interests in Ny-Ålesund
- established to enhance cooperation and coordination among researchers and research activities in Ny-Ålesund

Ny-Ålesund Flagship Programmes



Ny-Ålesund Flagship Programmes



arenas for contact, coordination and cooperation in science



- open to all scientists who are either actively engaged in studies in the area, or who wish to develop new insights based on monitoring and research in the area
- regular meetings; Newsletters



→ https://nyalesundresearch.no/research-and-monitoring/

Ny-Ålesund Atmosphere Flagship

Working Groups on

Clouds, humidity and precipitation

Long-term observations and trends in temperature, precipitation, clouds and radiation

- Boundary Layer Meteorology
- Interaction of snow, atmosphere, aerosols
- Atmospheric aerosol
- Variability of surface UV irradiance and ozone column
- Atmospheric composition and pollution monitoring
- Middle and upper atmopshere

→ https://nyalesundresearch.no/research-and-monitoring/atmosphere

... has been rather inactive lately.

New structure and activities currently under discussion.

→ Atmospheric projects will receive information.



Ny-Ålesund Terrestrial Ecosystems Flagship

Working groups:



- Vegetation Dynamics
- Soil processes and communities
- Carbon and nutrient fluxes
- Freshwater systems
- Sensitivity of ecosystems and integration

Terrestrial ecosystems



 \rightarrow https://nyalesundresearch.no/research-and-monitoring/terrestrial-ecosystems

Ny-Ålesund Glaciology Flagship

Prioritized research fields:



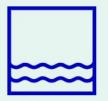
- Glacier dynamics
- Glacier hydrology
- Annual snow layer evolution
- Interaction between snow and atmosphere
- Ice cores (for climate and contaminant studies)
- Glacier biogeochemistry

Glaciology

→ https://nyalesundresearch.no/research-and-monitoring/glaciology

Ny-Ålesund Kongsfjorden System Flagship

Kongsfjorden system



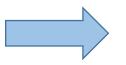
- Physical, chemical and ecological observations
- Contaminant flow and deposition
- Land-sea-atmosphere interactions
- Seasonal control of the nutrient regime
- Response to key environmental drivers and potential for acclimation and adaption
- Approaches in modelling the Kongsfjorden/Krossfjorden ecosystem
- Kongsfjorden top trophics

→ https://nyalesundresearch.no/research-and-monitoring/kongsfjorden-system



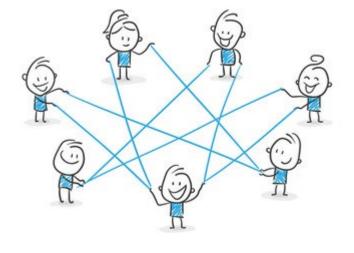
Glaciology





Get involved in the Flagship programs and collaborate!

Kongsfjorden system



Inform others about your activities



e.g. Popular Science Talk [weekly in Ny-Ålesund] Get informed about the activities of others

Terrestrial ecosystems

SESS Report 2023



Svalbard Integrated Arctic Earth Observing System

e.g.

Malnes et al. (2024) A holistic approach to snow observations and models in Svalbard

Traversi et al. (2024) Arctic haze in a climate changing world: the 2010-2022 trend.

and others.

SESS REPORT 2021 5105

https://sios-svalbard.org/SESSreport

Look up also earlier SESS Reports:

Get an overview of what has been done on Svalbard – potentially also in your field

Funding Opportunities

→ Check www.awipev.eu ——

→ 'News and Info' provides updates on calls and deadlines



Research Infrastructure Access program



• Arctic Field Grant (in cooperation with Norwegian institution)

Both commonly have their application deadline in late autumn.



Please be reminded that the expedition mini-proposals for 2025 have to be submitted by **15 March 2024**.

http://survey.awi.de/index.php/878496?lang=eng

 \rightarrow required to allocate AWI expedition funding for your AWIPEV stay

<u>All</u> projects (French, German, incl. **All**)

→ Submission of AWIPEV project proposal as indicated on <u>https://www.awipev.eu/practical-info/access/</u>



today + tomorrow: Get an idea of what's going on at ANPEV in 2024.

Program does not cover ALL projects \rightarrow see www.awipev.eu

Take the chance to get in contact with other projects using the chat function.

Enjoy the seminar !

cartoons taken from https://stock.adobe.com/