

Summer School 2023

Changing Extremes



PhD course
Practical part on
Svalbard
03. July – 18. July 2023

1. Introduction before excursion in:

Historical aspects of climate change and research at Svalbard,
Practical evaluation of climate change at landscape level, incl. an exercise in generating orthophotos and digital elevation models using drones and threats to the arctic
Ecosystems: Tourism before, now and tomorrow; arctic soil processes, vegetation, biotic-abiotic interactions
Developing of relevant projects to course aim which will be carried out on Svalbard

2. Teaching in field of effects of global change in a high Arctic permafrost environment:

Glacial retreat -- at Trygghamna arctic primary succession since the local glacial retreat starting at 1936,
Atmospheric carbon exchange – in Adventdalen, visit of measurement stations
Vulnerability of the landscape: impact of climate change and tourism on ecosystem processes build on long term research of Jonas Åkerman: weathering, permafrost processes, species distribution, hydrological changes around Cap Linné

3. Performance of developed small scale project: group work of participants, relevant to the aim of the course

4. Analysing, evaluating and presentation of project work back

Preliminary dates Svalbard excursion

Arrival in LYB: 03. July 2023

Transport to Cap Linné: 04. July 2023



Cap Linné excursions, Trygghammen and project work: 04..07. – 16.07. 2023

Back to LYB: 17. July 2023

Flight back home: 18. July 2023



Conditions:

Limited to 6 students, priority to ClimBEco and Department of Physical Geography and Ecosystem Science PhD students as well as to WSL PhD students. Other researchers are welcome, if places are available.

Costs: accommodation (ca. 40000 SEK or 4000 CHF) plus flight. There will be a discount for ClimBEco students depending on the number of applicants.

Last application date: 30.11.2022. However, for practical reasons of booking flights and to assure your place please apply ASAP to: veiko.lehsten@nateko.lu.se.

Course page with information updates and extended content: <https://www.nateko.lu.se/summer-school-2020>

All questions to: Veiko Lehsten veiko.lehsten@nateko.lu.se; Heike Lischke heike.lischke@wsl.ch;

Involved teachers: Veiko Lehsten, Heike Lischke, Jonas Åkerman