

Saline Permafrost in Arctic Coastal Environments (SPACE)

Salt reduces the freezing point of porewater, enabling permafrost to thaw at temperatures below zero. This project aims to characterize saline permafrost using geophysical mapping and numerical modeling.

Was?

- Potential fieldwork in Summer 2025 (20%)
- Electrical resistivity tomography (ERT) data processing; numerical modelling of permafrost using the CryoGrid modelling suite (80%)
(<https://github.com/CryoGrid>)

Wo?

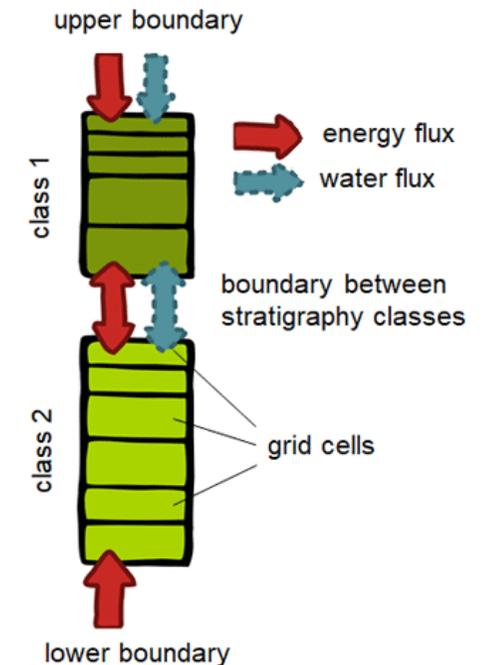
- Ny-Ålesund, Svalbard (fieldwork), Svalbard & Alaska (ERT data), the cryosphere (modelling)

Wann?

- Autumn 2024 / Winter 2025 for data processing and permafrost modelling

Kontakt: michael.angelopoulos@tum.de

Image source: toposvalbard.npolar.no



Westermann et al., 2023
<https://doi.org/10.5194/gmd-16-2607-2023>