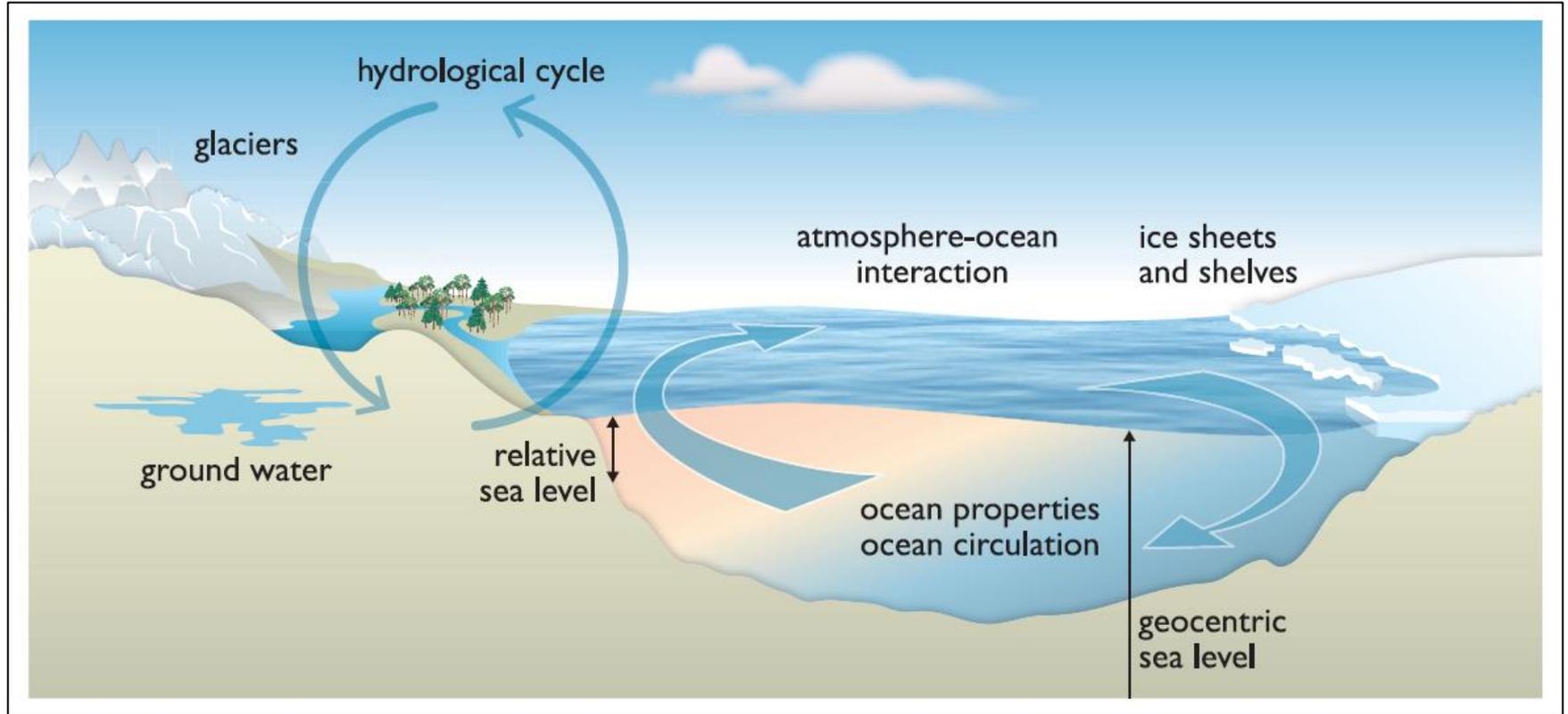


# Master thesis topics Physical Geography (sea level) 2025

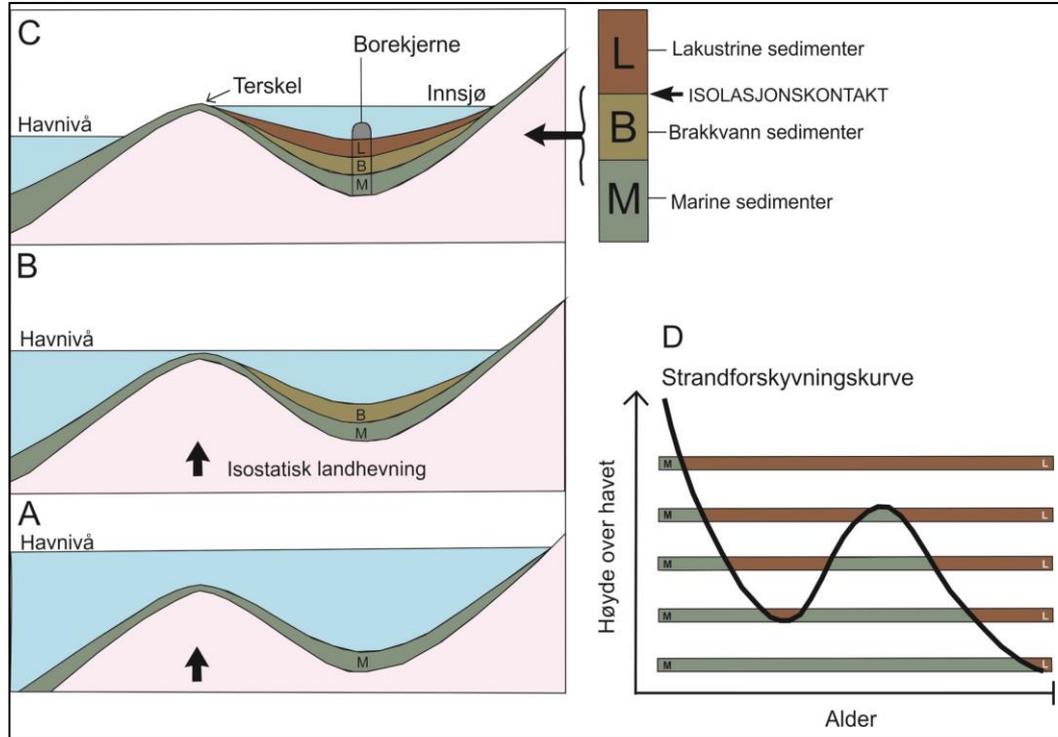
[Kristian.Vasskog@uib.no](mailto:Kristian.Vasskog@uib.no)



# Sea-level change



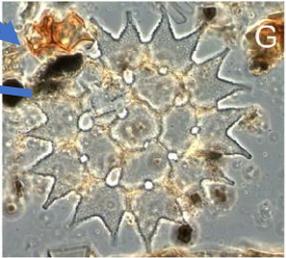
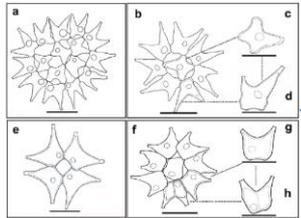
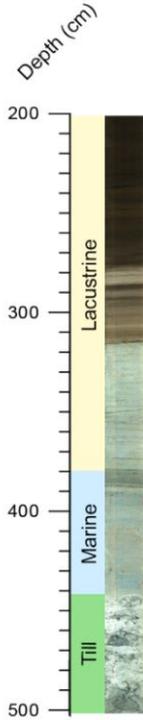
# Reconstruction of past sea level: Isolation basins



# Reconstruction of past sea level: Fieldwork

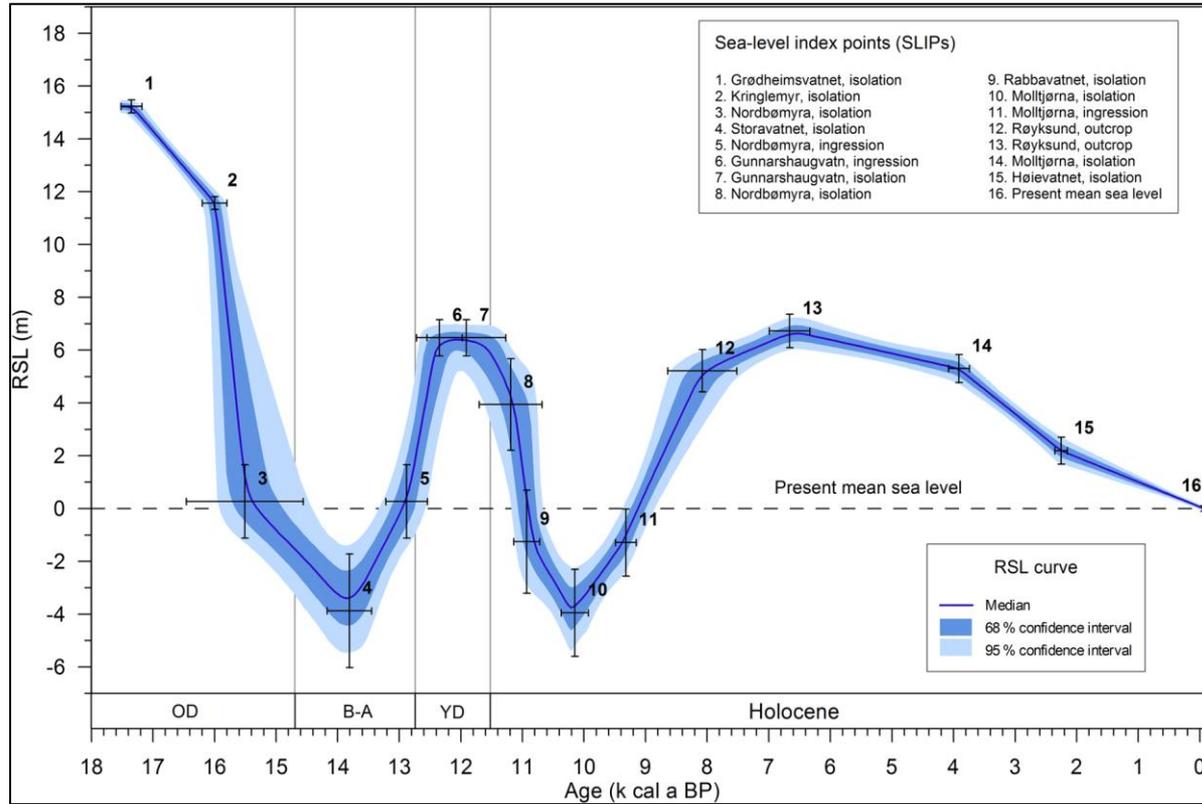


# Reconstruction of past sea level: Lab work



Phytoplankton analysis

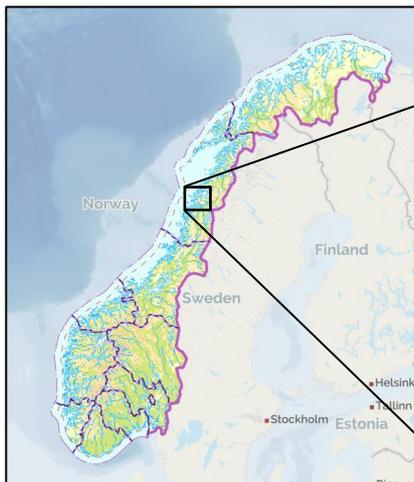




- Relative sea-level curve from Karmøy (Vasskog et al., 2019)

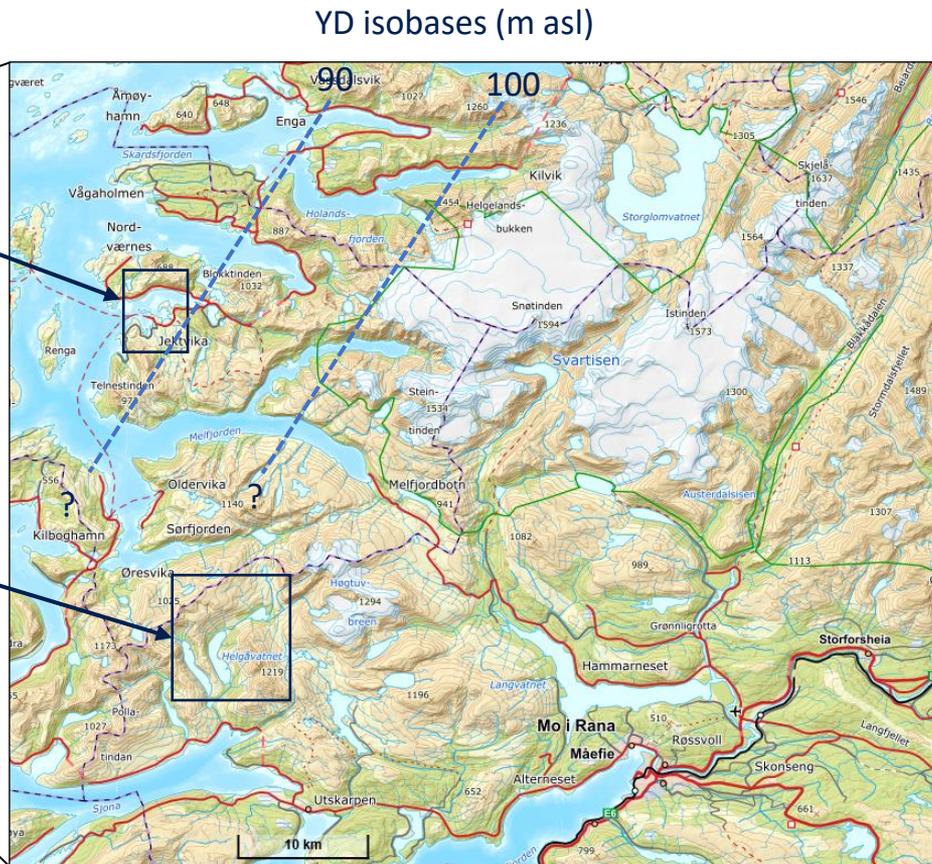


# Study area: Svartisen (Rana)



Jektvika: Existing sea-level curve

Potential new sites: 112 m, 99 m and 85 m asl



# Study area: Svartisen (Rana)

1-2 Master projects

- Mapping with focus on shoreline features
- Reconstruct Late Glacial and Early Holocene relative sea-level (RSL) history
- Isolation basin analysis (lake coring)
- Shoreline analysis Rødøy-Melfjord-Langvatnet
  
- Main supervisor: Kristian Vasskog

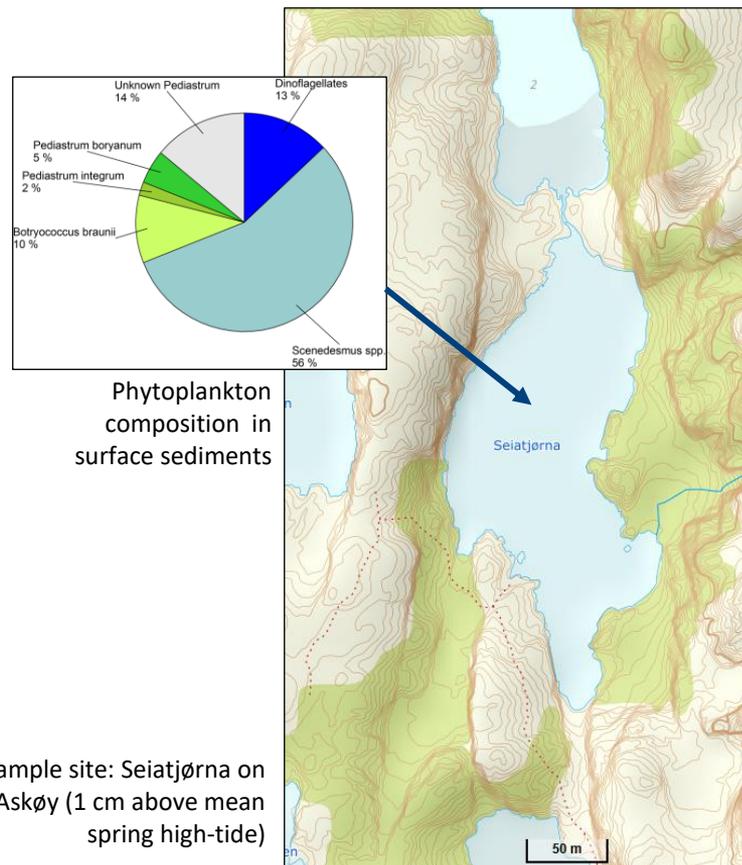


Gårdsvatnet, Rødøy. Coring in summer 2021



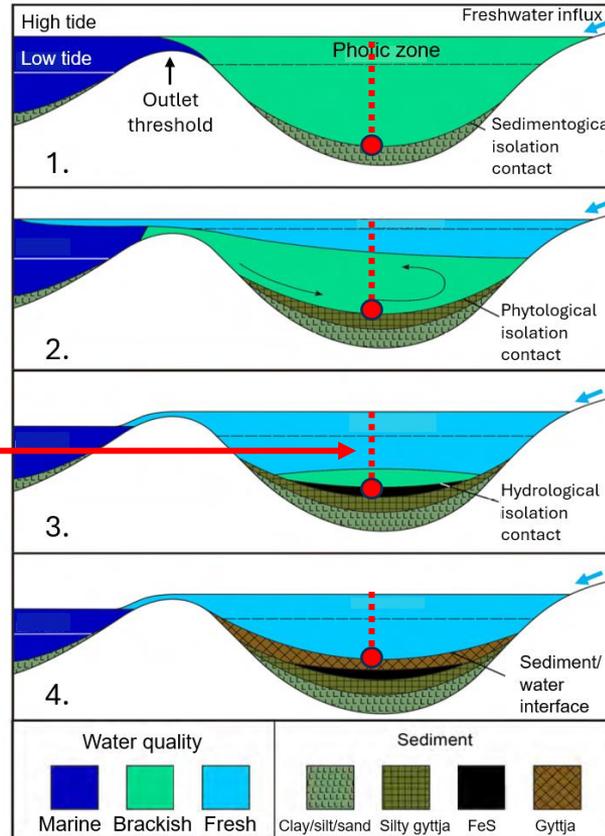
# Method development: Phytoplankton analysis

- 1-2 Master projects
- Field area: Western Norway
- Fieldwork: Collect CTD profiles (temperature, salinity, density) and surface sediment samples from low-lying isolation basins (in the process of isolation)
- Lab work: Preparation and analysis of phytoplankton samples
- Research aims: Develop a modern-day calibration dataset to infer salinity from phytoplankton analysis in isolation basins (qualitatively or quantitatively)
- Main supervisor: Kristian Vasskog
- Co-supervisor: Jan Magne Cederstrøm (Earth Science)

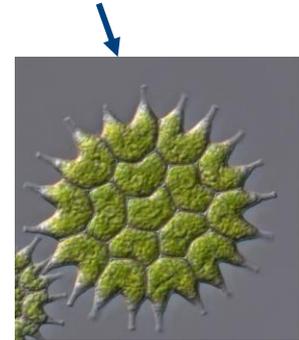


# Method development: Phytoplankton analysis

Modern basins in different stages of isolation



● Surface sediment samples



Analyze phytoplankton content



CTD profiles (repeat for different seasons)



SonTek CastAway CTD



[uib.no](http://uib.no)