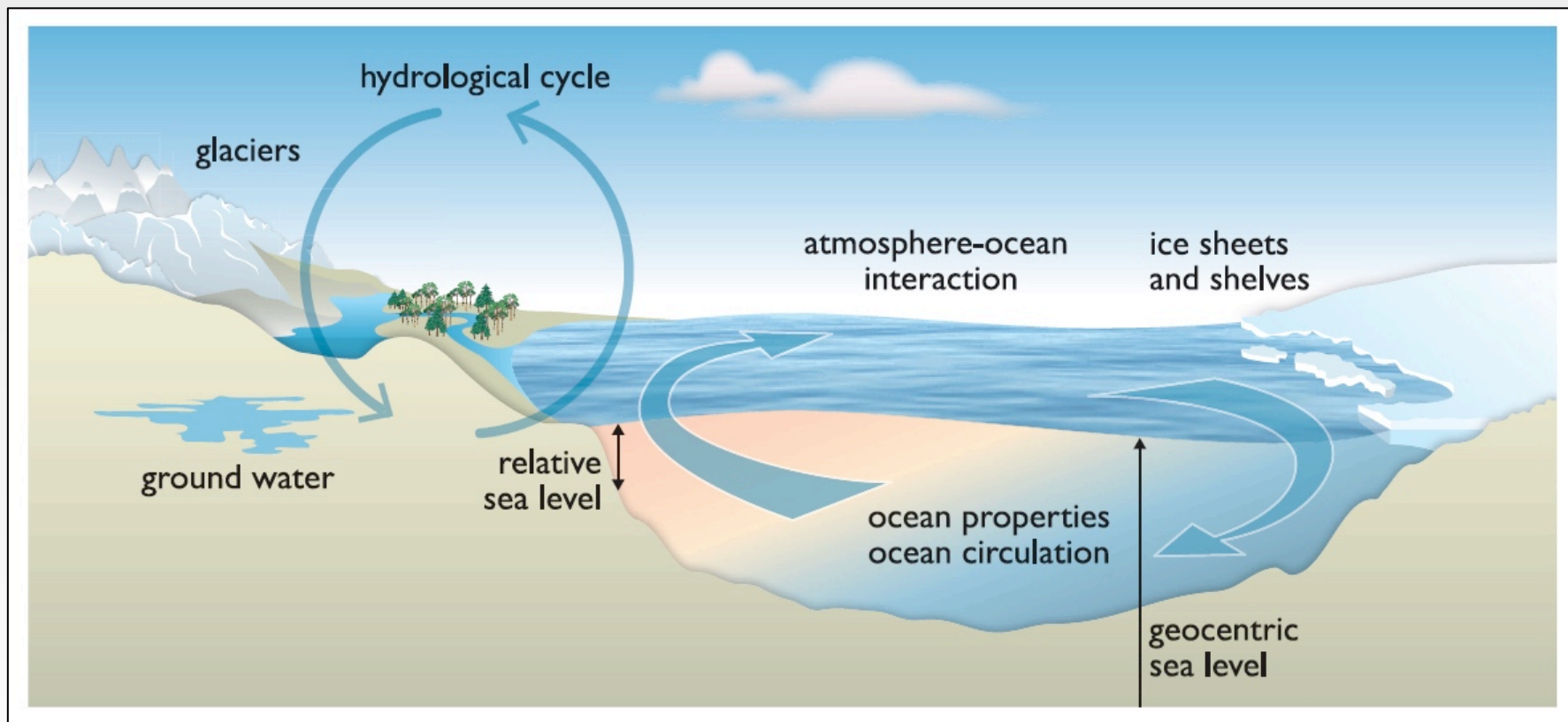
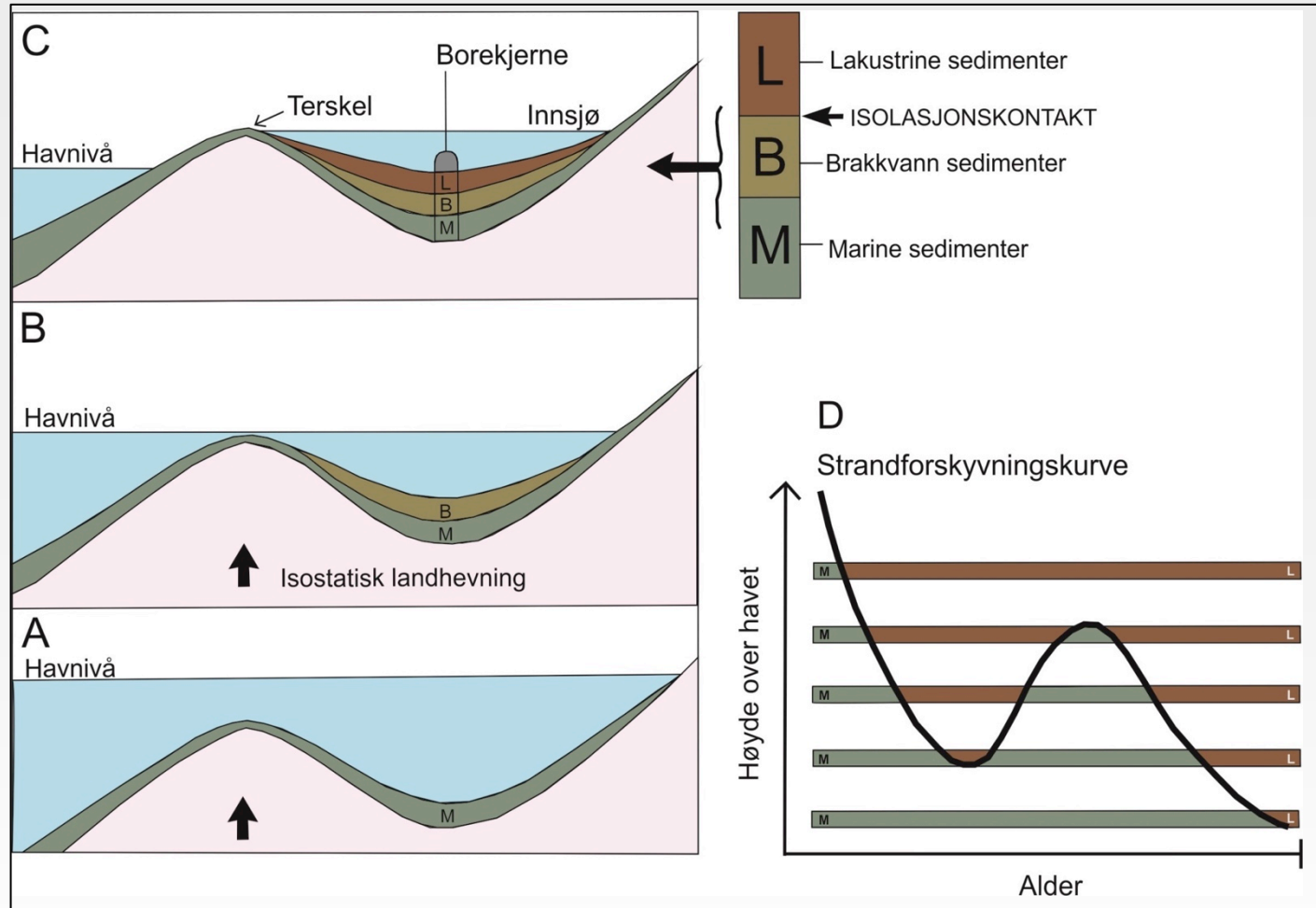




Sea-level change



Reconstruction of past sea level: Isolation basins



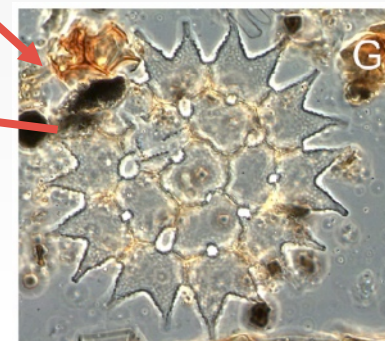
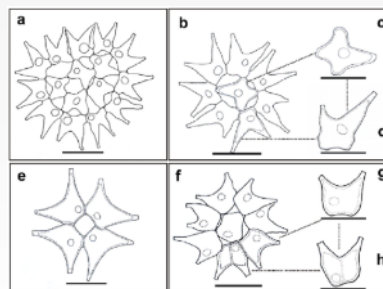
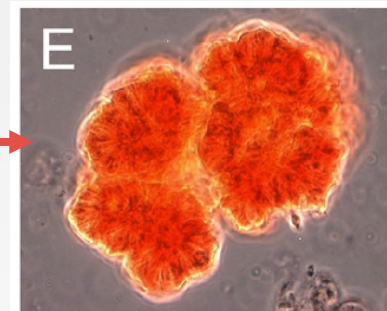
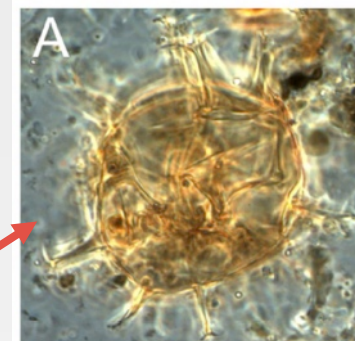


Reconstruction of past sea level: Fieldwork

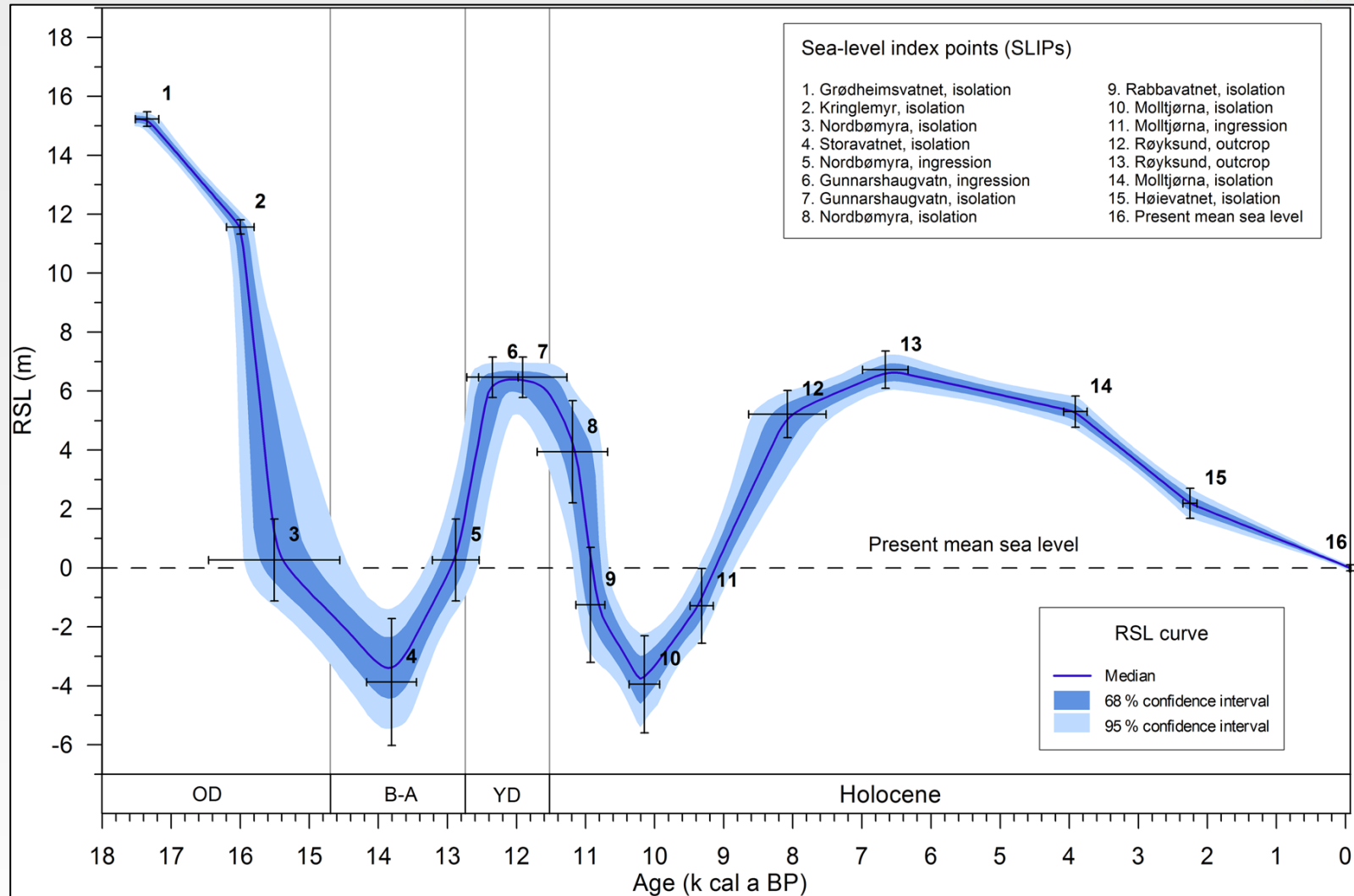




Reconstruction of past sea level: Lab work



Phytoplankton analysis



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





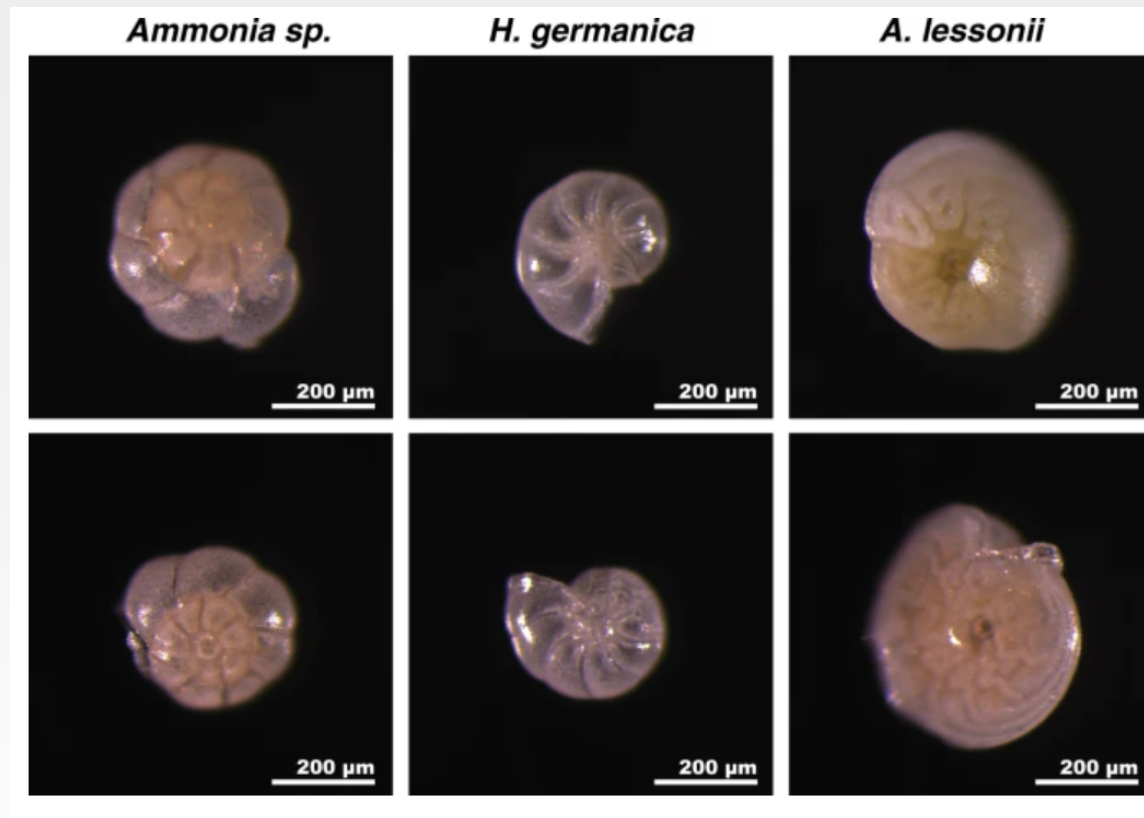
Salt marshes

- Can be used to reconstruct more recent sea-level change, overlapping with instrumental data
- Basal dates give long-term trend, reflecting how the salt marsh moves land- or seaward
- High-resolution sea-level reconstruction from cores
 - Fossil records analyzed using transfer functions from modern assemblages of shells, foraminifera and microscopic fauna

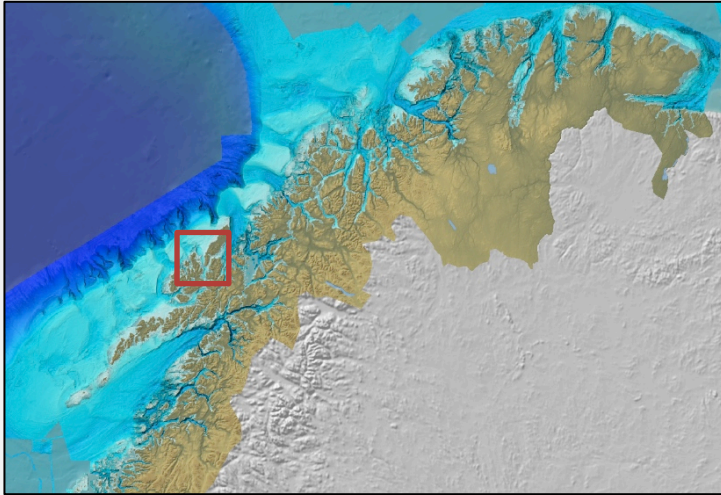




foraminifera



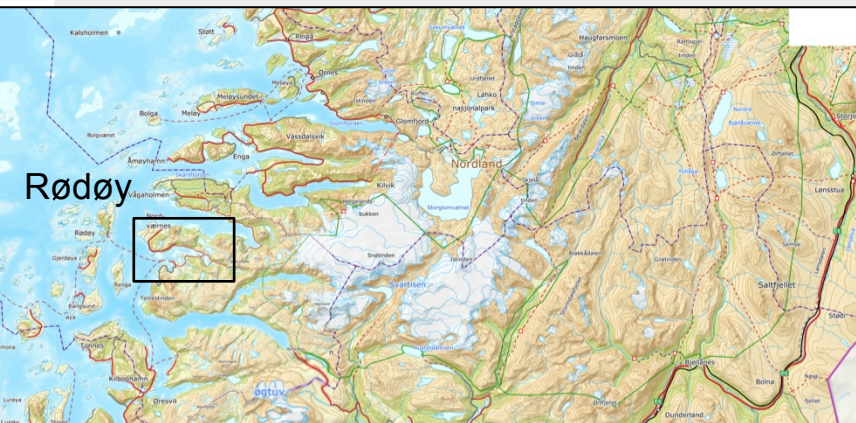
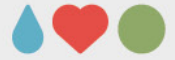
Sea-level from salt marshes on Andøya



- 1 master project
- Reconstruct recent sea-level change on Andøya, using salt marsh sediments
- Collect surface samples to establish modern faunal assemblages through the tidal zone (dGPS used for precise altitudes)
- Collect cores to reconstruct how the faunal assemblages have varied over time
- Use simplified transfer function approach to obtain past sea-level variation
- Supervisors: Oskar Eide Lilienthal and Kristian Vasskog



Study area: Svartisen



Gårdsvatnet, Rødøy

1-2 Master projects

- Quaternary mapping with focus on shoreline features
- Identification of the Marine Limit
- Reconstruct Holocene relative sea-level (RSL) history
- Isolation basin analysis
- Interaction between Svartisen and sea level
- Regional implications
- Supervisors: Kristian Vasskog and Svein Olaf Dahl



Study area: Bokn



1 Master project

- Part of the QUANTSEA project
- QUANTSEA will use reconstructions of past sea level along the Norwegian coast to learn more about the processes behind sea-level change, and how sea level might change in the future
- This Master project will focus on the Late Glacial period on Bokn
- Can we find traces of the global Meltwater Pulse 1A on Bokn?
- Supervisors: Kristian Vasskog and John-Inge Svendsen

