

Preliminary plan field course/excursion Southern Norway:

- 24.8. Travel to Finse (8.00), Jomfrunut/surroundings, travel
- 25.8. Excursion Midtdalsbre/Blåisen, evening, lesson
- 26.8. Excursion Flåm/Aurland/Lærdal/Sogndal
- 27.8. Nigardsbreen/Fåbergstølen, Skjolden
- 28.8. Skjolden-Sognefjell-Juvvass
- 29.8. Field work Juvvass/Storbreen
- 30.8. Field work Juvvass/Storbreen
- 31.8. Field work Juvvass/Storbreen (afternoon visit Jetta in nice weather), travel to Tronsvangen
- 1.9. Field visit and work Tron
- 2.9. Field visit and work Tron, summary.
- 3.9. Travel home

Every second evening: 2 hours lecture about general topics and glacial/periglacial geomorphology or student presentations of topics prepared before trip.

Potential Field projects (2 students)

1. Temperature monitoring and 1D modelling
2. Resistivity tomography boreholes
3. Glacial/periglacial landforms Juvvass – distribution, type etc.
4. Deglaciation of Storbreen since LIA– (mapping of different forms)
5. Erosional and depositional forms in Storbreen forefield
6. Hydrology of Storbreen
7. Mass balance Storbreen – (stakes, AWS, soundings, pits etc,)
8. Dynamics of Storbreen (GPS, crevasse pattern)

Preparation each student:

Write an essay about a relevant theme we visit during the excursion and the field sites. The essay is presented in a 15 min lecture during the trip. Max 2 students together:

1. Mountain permafrost distribution in Norway and the role of block fields
2. Local glaciations in southern Norway, west-east gradients in mass balance
3. Glacial landforms and glacial thermal regime – interaction glaciers and permafrost
4. Modelling permafrost distribution – concepts and principles
5. Patterned ground
6. Solifluction and gelifluction in southern Norway – mapping, distribution and monitoring
7. Geomorphogenesis of southern Norway – Bedrock geomorphology and principle deglaciation pattern
8. Holocene climate and glacier variability
9. Current and recent past glacier development in South Norway.