

## **GEO4410 Fall 2011: Field excursion and field work in the Finse area, Southern Norway, September 12-17.**

Version 20110906

Course responsible:

Ole Humlum

Main scientific field work themes:

Glacial and periglacial geomorphological processes and landforms. The late Weichselian and Holocene glaciation of the Finse area. Permafrost in central southern Norway.



*Red dot shows location of the Finse Research Station*



*The red dot shows the location of the Finse Research Station. Area '1' is the area around the glacier Omsbreen. Area '2' is the area around the outlet glacier Middalsbreen.*

### Practical travel information:

The excursion will depart from the Central Railway Station (Oslo S) in Oslo on Monday 12 September at 08:11 AM. Look for the train to Bergen with departure 08:11 AM, and be ready at the platform no later than 07:55 AM, for getting your seating in the train. In the main hall of Oslo S there will be information available on the platform number from where the train will leave. Train reservations will be taken care of by the Institute of Geosciences, so the only thing you have to do is to meet at the train Monday morning.

You must bring sleeping bag, towel, rucksack and clothing for hiking in the mountains in the late summer (both wet and dry conditions). Please also bring along personal notebook, pen, map, compass and GPS, if available to you. Otherwise, please limit your baggage as much as possible. There is a walk of about 2 km from the Finse railway station to the Research Station, and you will have to carry everything yourselves.

We will be back in Oslo September 17, 17:32 PM.

Accommodation will take place in the Oslo University Finse Research Station. Presumably, we will not have access to laundry machines. Shower facilities will be available.

Please visit the station web page: <http://www.finse.uio.no/research/>

Please bring lunch on the train for the first day. Dinner and breakfast will be served while at the station, and you must prepare your personal lunch bag at each breakfast. Consider bringing a thermos with you. First meal served will be dinner on 12 September. Last meals will be breakfast and lunch on September 17. All these meals (except lunch on September 12) are covered by the excursion.

Please remember to fill out Field card (see course web page) and to use the E-pay facility for your payment. Field cards must be submitted to Ole Humlum (please use mail box in 1<sup>st</sup> floor, Institute of Geosciences) no later than Friday September 9 16:00.

#### Field activities:

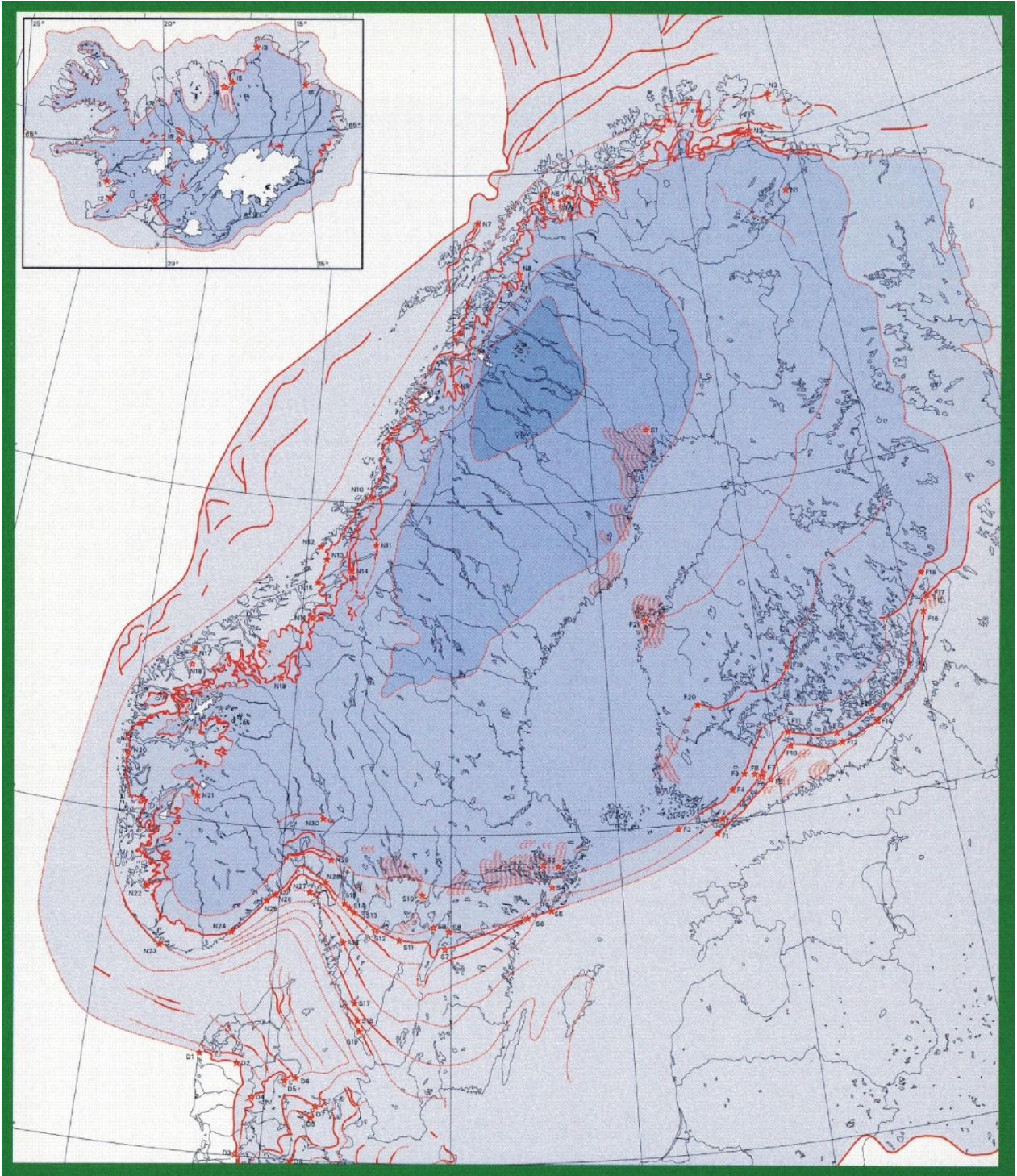
Our field activities in the alpine (Arctic) environment at the Finse Research Station will depend on the weather. However, the plan is to visit the areas at the two glaciers Omsbreen and Middalsbreen during the first two days, which represents two different environments as to glacial- periglacial- and permafrost related landforms. Based on this, relevant research questions to be addressed during the field work will be discussed and identified, and individual or group field work during the remaining period planned.

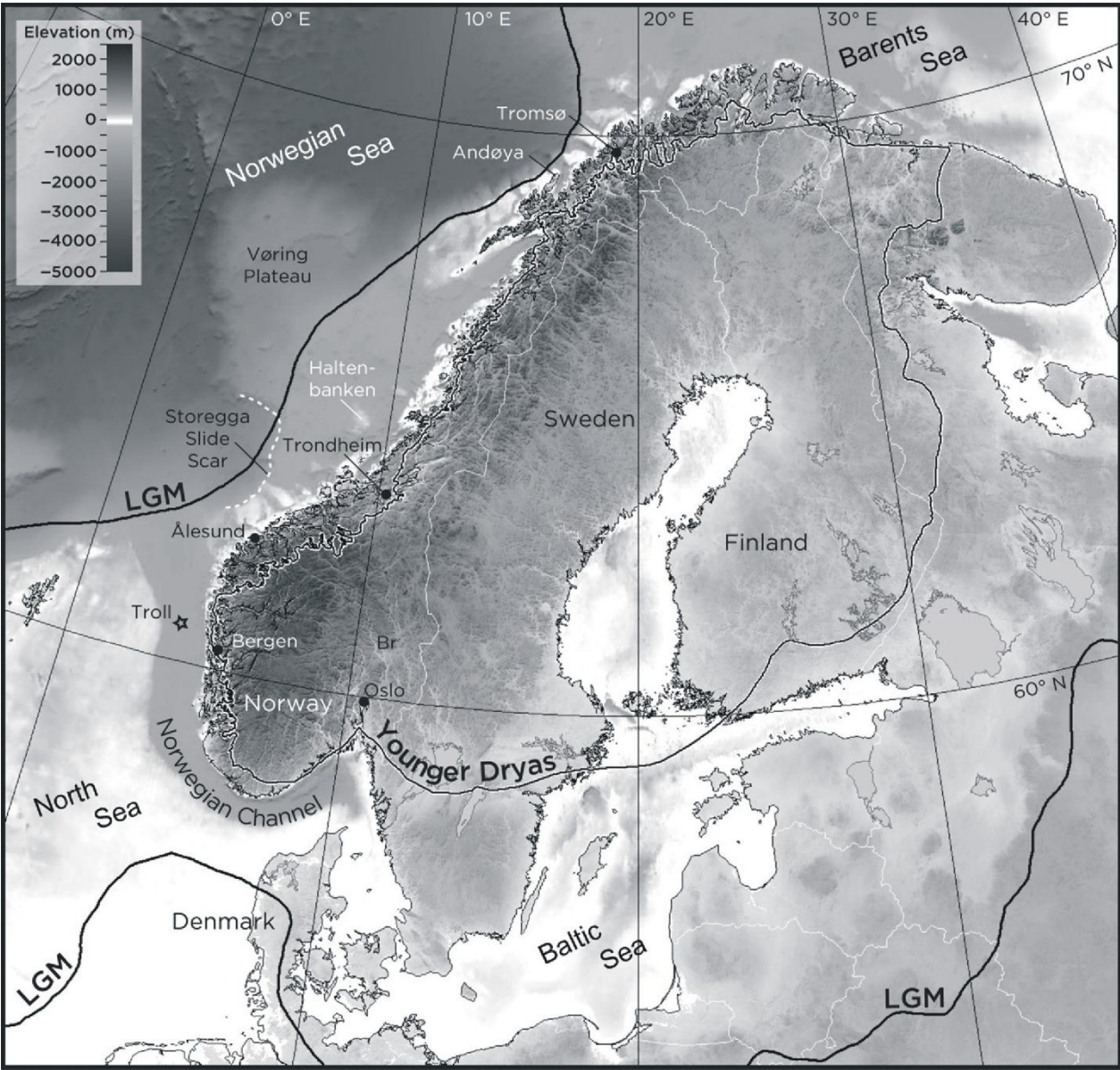
During the evenings at Finse, we will have informal discussions and seminars, relating to the excursions or the field work, or other relevant themes.

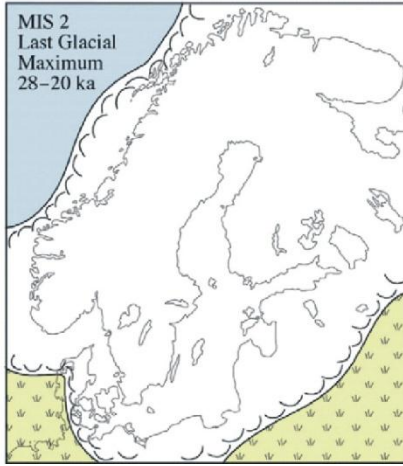
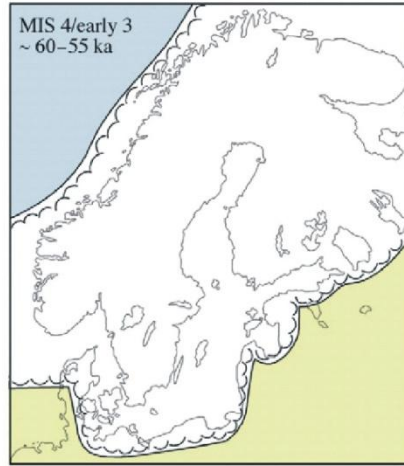
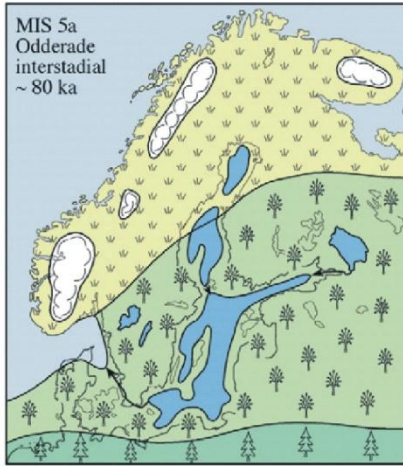
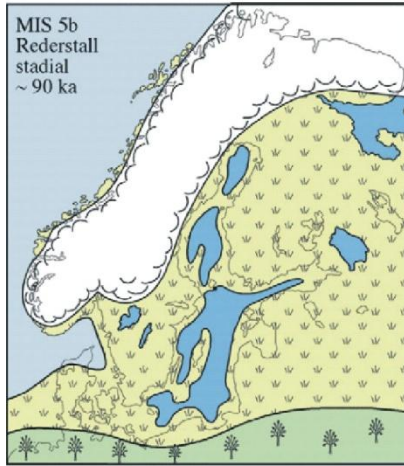
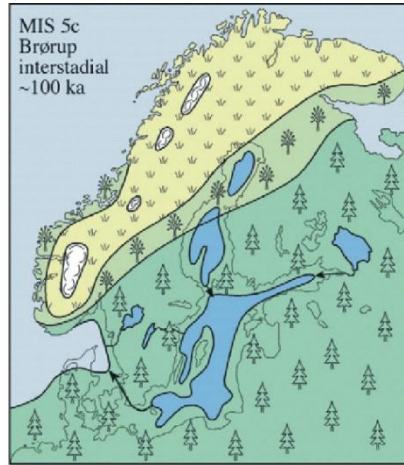
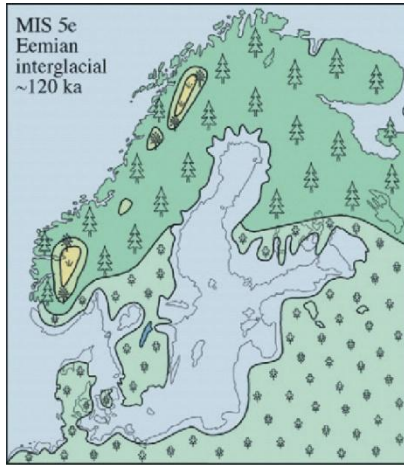
#### Reports and examination:

Individual written reports over the field work (about 20 pp) are to be handed November 18 (preliminary date to be discussed at Finse). The reports will be graded and will carry about 50% weight of the final examination grade December 15 (preliminary date) 2011. Part of the report grading will be based on an oral discussion of the reports during this examination. Details of the examination and the in-house course teaching (lectures and seminars) in November will be discussed during the stay at Finse.








PLEASE SEE NEXT PAGES FOR A FEW USEFULL OVERVIEW MAPS AND ILLUSTRATIONS:

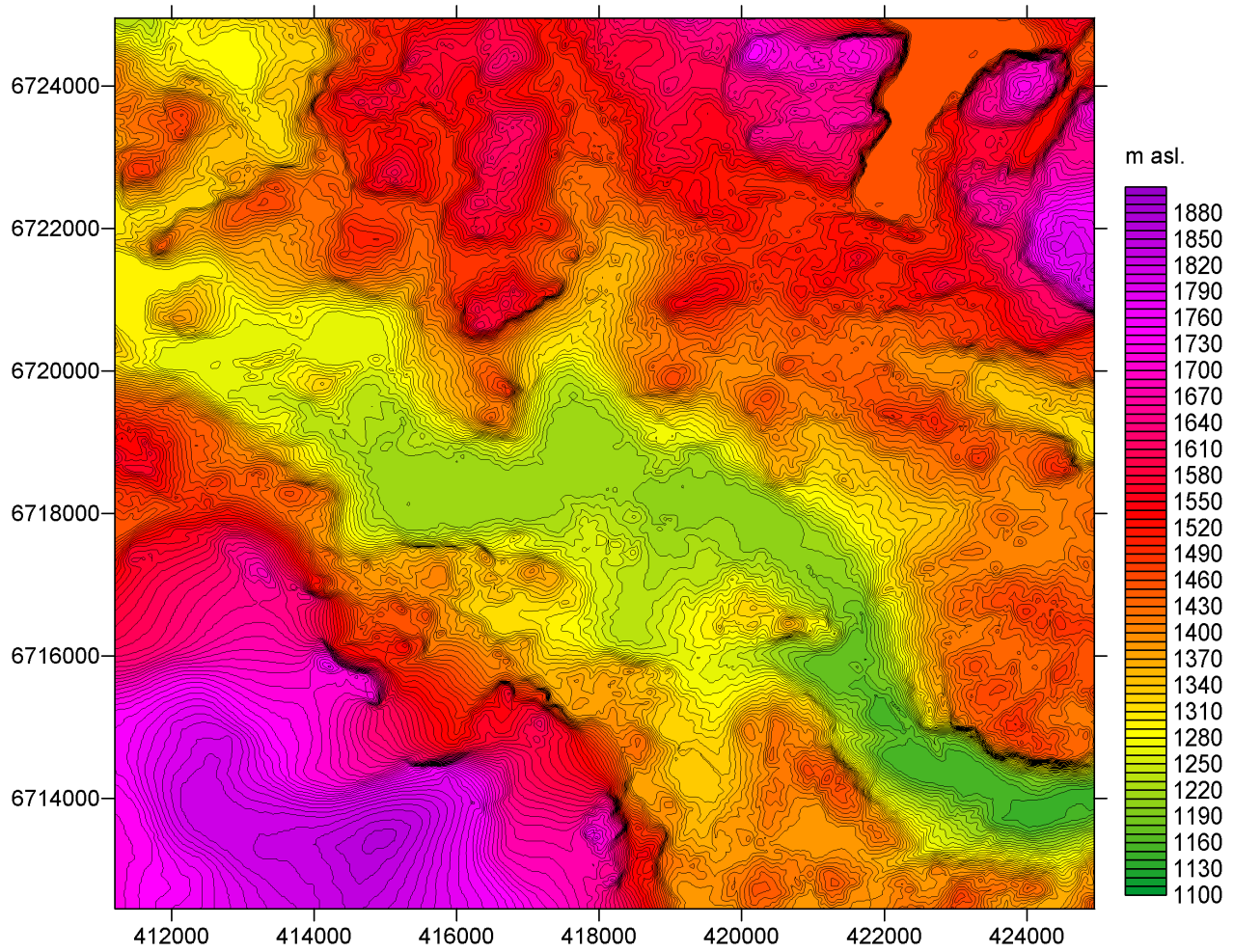






**LEGEND**

-  Ice sheet
-  Ocean
-  Lake
-  Tundra and arctic steppe
-  Birch forest
-  Coniferous forest
-  Mixed oak forest

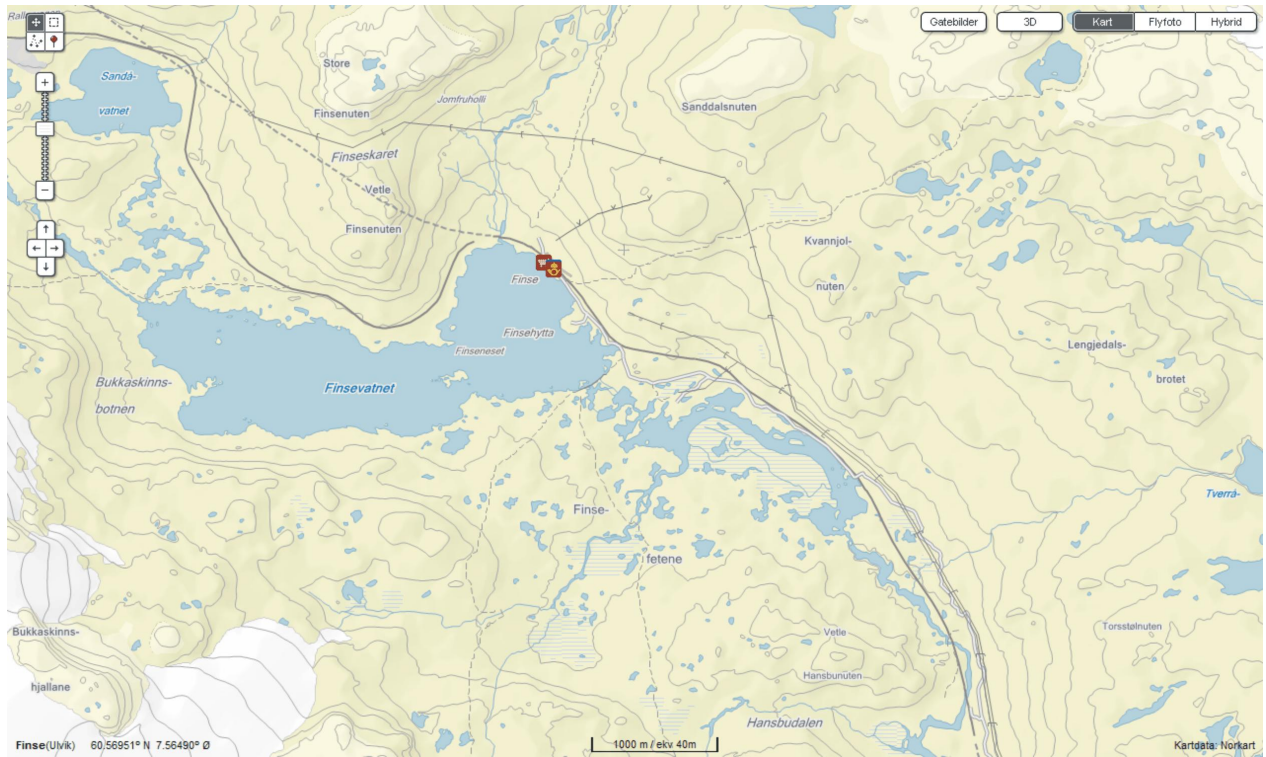


*Topographical map of the Finse area. Compare with map on page 2. Altitudes in meters above sea level. The horizontal scale (UTM) is in meters, leaving 2 km between the individual subdivisions.*

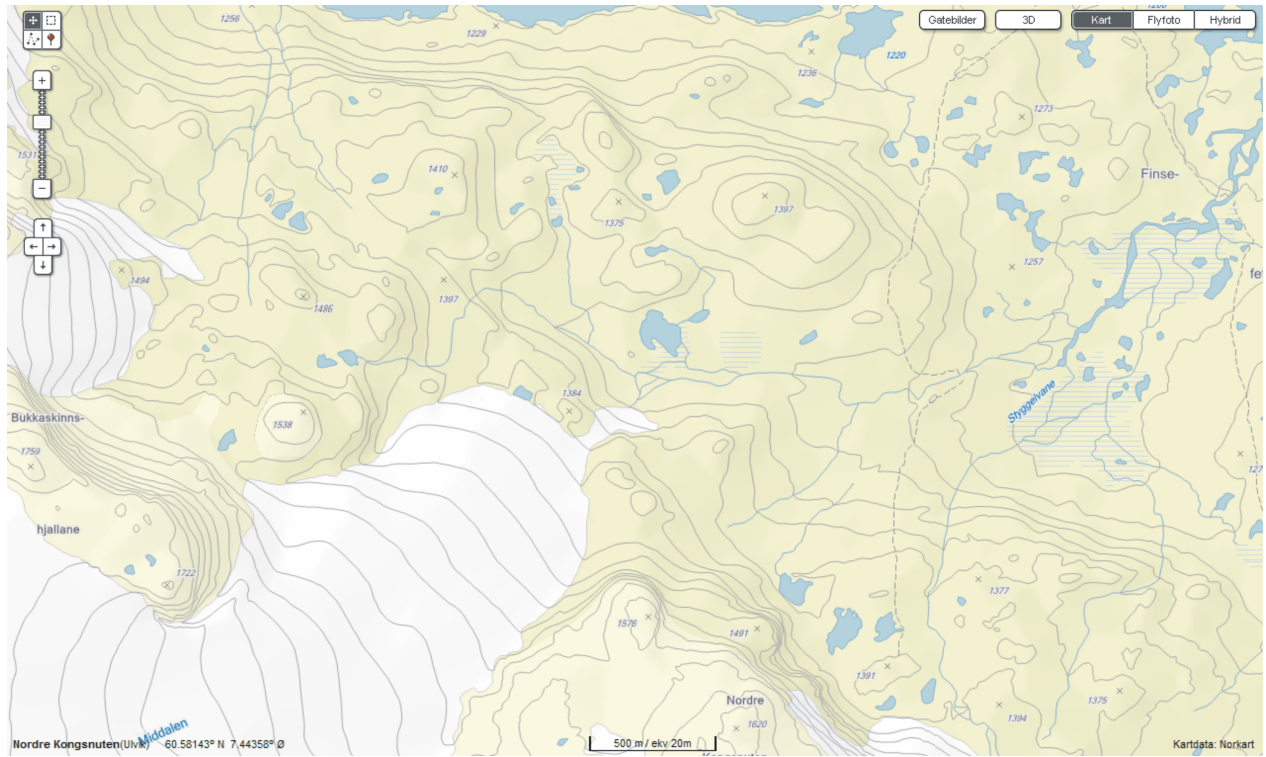


*The outletglacier Middalsbreen seen from North. In the background the summit of the ice cap Hardangerjøkulen is seen (compare with map on page 2).*

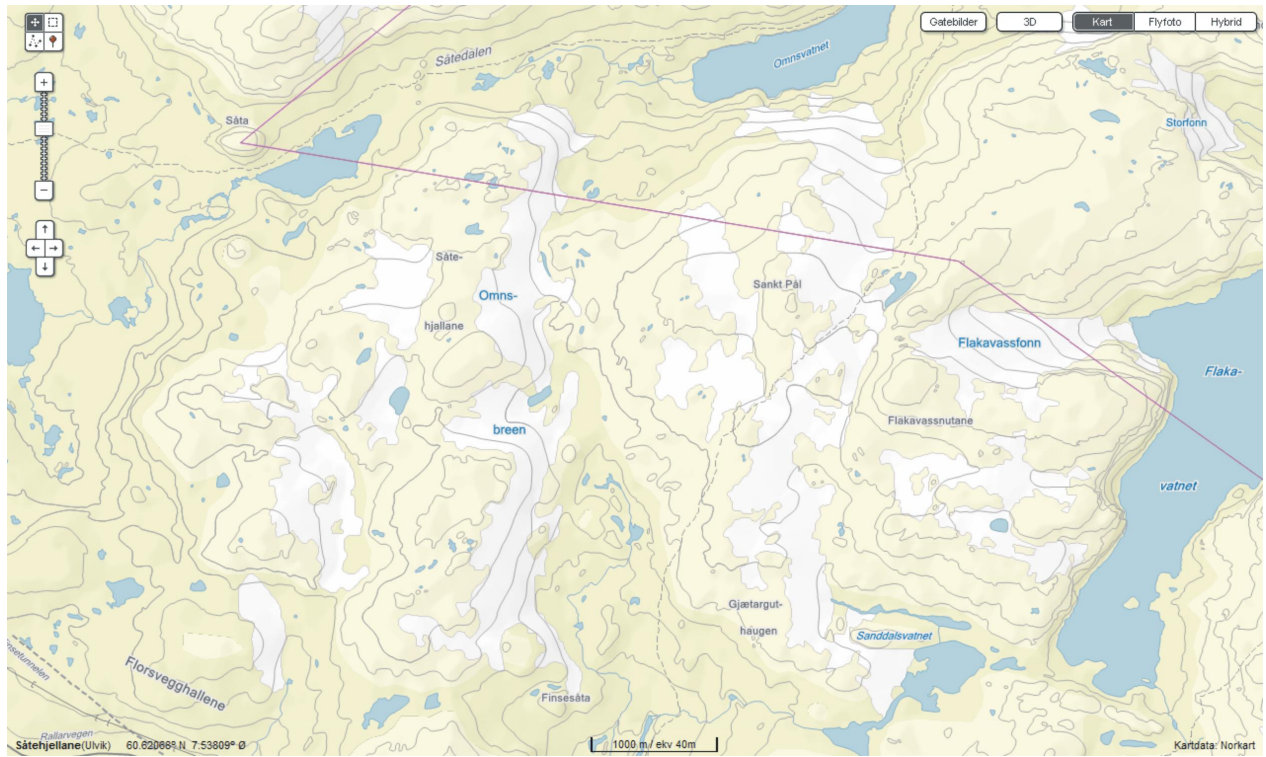




Map section showing the central valley at Finse. The research station is located near the center of the map. The railway station is located at the mail symbol.



Map section showing the area around Middalsbreen, S of the Finse Research Station.



Map section showing the area around Omsbreen, NW of the Finse Research Station.