

Sodankylä Geophysical Observatory Sodankylä, Finland 27th August - 1st September 2012

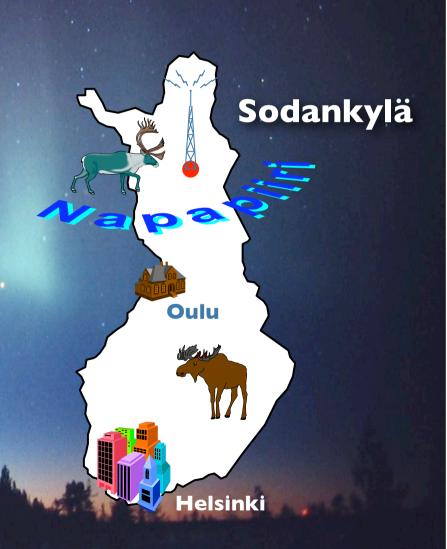
WELCOME!

Where we are...



Sodankylä Geophysical Observatory

- → First observations during the International Polar Year 1882/83.
- →SGO established 1913.
- → Finland independent from Russia in 1917.
- →SGO part of University of Oulu since 1997.
- →Oldest scientific research institute in Northern Finland.





SGO has a very comprehensive library with material dating back to the IPY 1882/83.

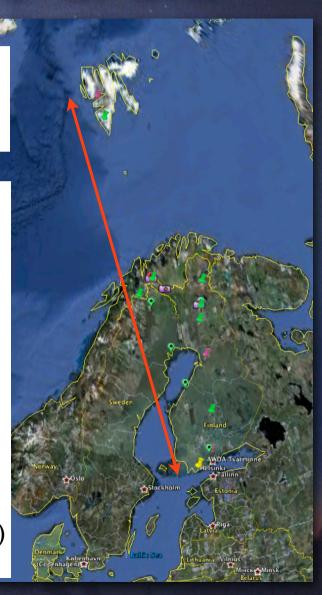
If you need any material, please ask us for access.

Who we are...

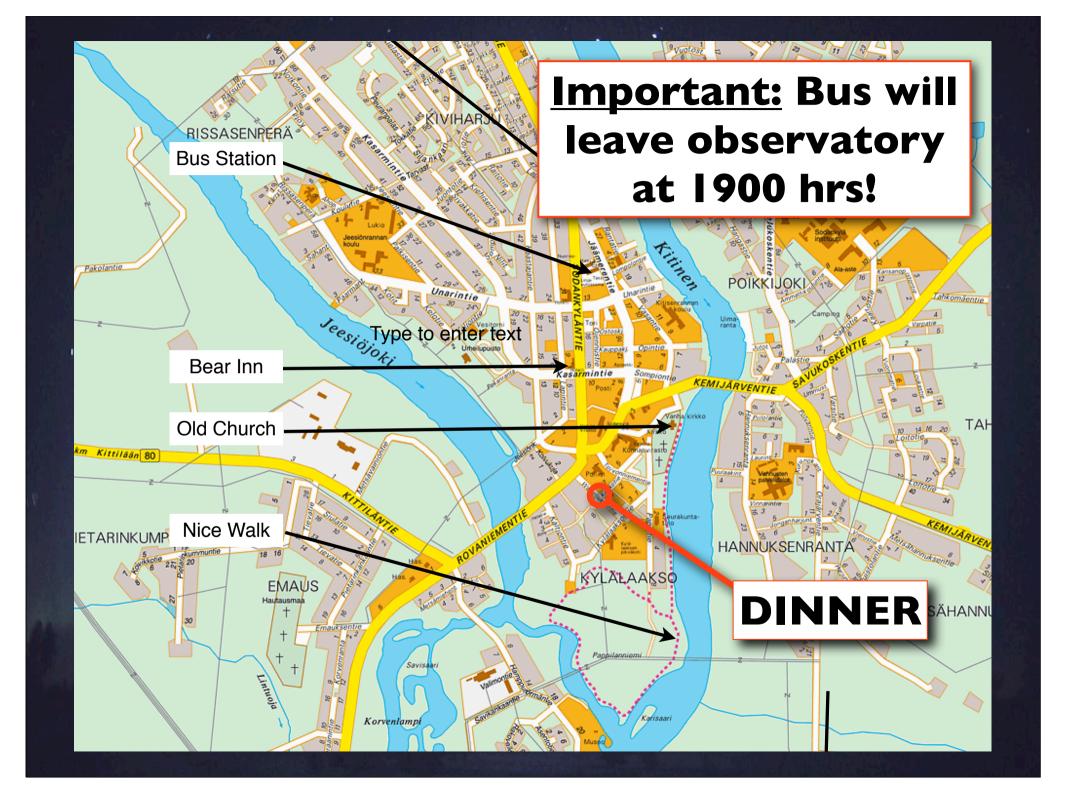
Operations extent over 2070 km

We operate:

- Magnetometers
- Pulsation Magnetometers
- lonosonde
- Riometer Chain
- All-Sky Cameras
- Ionospheric Tomography Chain
- Neutron Monitor
- Various VLF receivers
- Network of Seismic Stations
- Imaging Riometer (U Lancaster)
- Meteor Radar (U Leicester)
- Fabry-Perot Interferometer (UCL)
- etc





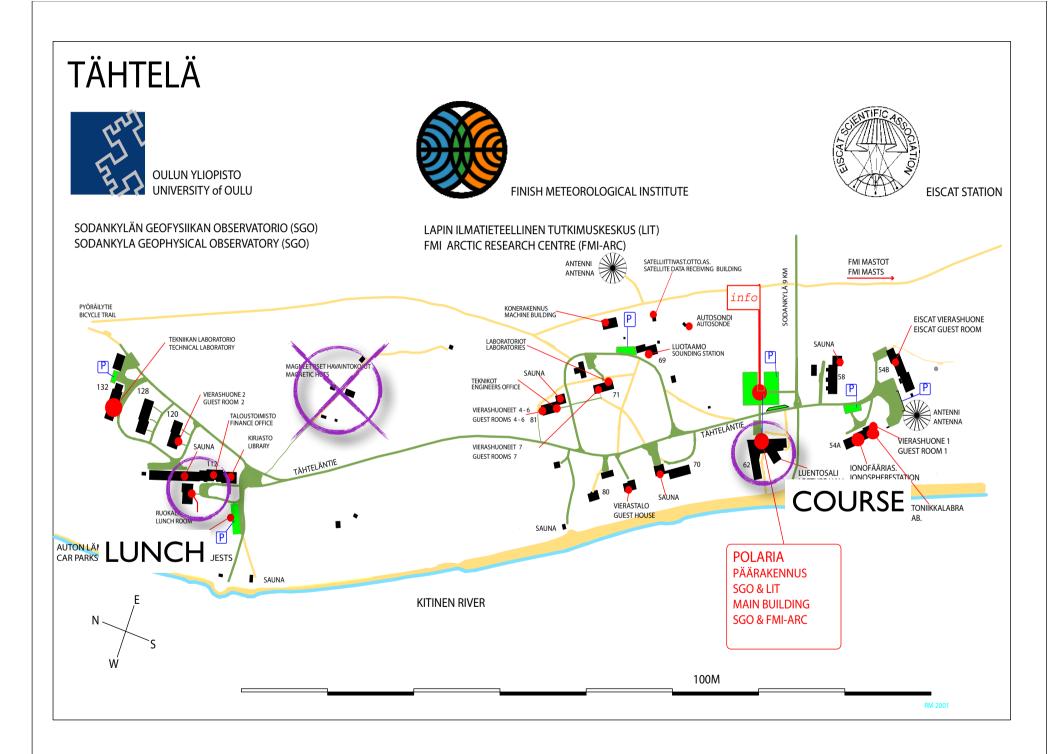


Practicalities

- WLAN access:
 SGOAirport, password: Sg00y
- Daily Shuttle to Observatory: from Three Brothers: 0800 hrs sharp! from Hotel Sodankylä: 0805 hrs sharp!
- Excursion on Thursday:
 from SGO: IOI5 hrs, back at SGO: <1500 hrs.
- Shuttle to Dinner on Thursday: from SGO at 1900 hrs.

Timetable

- Lectures start 0830 h.
- Morning break: 1000 h − 1030 h.
- Lunch: I200 h I300 h.
- Afternoon break: I430 h I500 h.



Tuesday

- Submit proposal by 1600 hrs.
- Get feedback by 1630 hrs.
- Radar Experiments 1730 h 2330 h.
- Three groups / 2 hrs each.
- Radar exeriments in <u>lecture room</u>.

Radar Walk

- Parallel to radar exeriments
- Visit to SGO radar installations.
- Bring walking shoes (dry forest, sand).



Fun Exercise:

At location 67° 21.781'N, 26° 38.074'E you can see the shadows of the masts of the SGO ionosonde transmitter in Google Earth.

The satellite image is dated 30th May 2007.

Task: calculate the height of the centre mast.



Radar Walk, Th. Ulich, SGO, Finland

Groups

Group I
Stuart
Hugo
Dmytro

Christer

Group 2

Jonas

Lais

Mikhail

Anne

Group 3

Max

Lei

Andrii

Irina

Questions?

Enjoy!