Arctic Science 2019, 4.5 ECTS Schedule for the Kiruna meeting, 6th – 9th February 2019

Schedule for the Kiruna meeting, 0" - 9" February 2019	
Wednesday 6 Feb.	Swedish Institute of Space Physics, Aniara
8:00	Bus departs from Folkhögskolan, arrives Space Campus approx
	08:30 (Bus ticket 84 kronor)
8:40 – 9:30	Course registration, general information and presentation of the
	course exercises, Carol Norberg & Carina Gunillasson
9:30 – 9:45	Coffee break
9:45 – 10.15	Current activities of the Swedish Institute of Space Physics,
	Hans Nilsson
10:15 - 11.00	Tour of the Space Campus
11:00 – 12:00	Magnetospheric & auroral physics, Carol Norberg
12:15 – 13:00	Lunch break
13:00	Group photograph in front of the Institute
13:30 regular bus to	Visit to ICEHOTEL, Jukkasjärvi
Jukkasjärvi	
14:00	Guided tour of the ICEHOTEL 14:00 to 14:30
15:30 or 16:30	Regular bus departs Jukkasjärvi
	Evening: Aurora observations weather permitting
Thursday 7 Feb.	Abisko
10:30	Chartered bus departs from Folkhögskolan for Abisko
12:00 – 14:00	Visit to Mount Nuolja by chair-lift
15:30 – 16:30	Avalanche safety, Stefan Hedlund, Room Konten.
	Free time
18:15	Walk to the Abisko Research Station
19:00 – 20:00	The climate's impact on the Arctic environment, Keith Larsson
	at the Abisko Research Station
20:00 – 23:00	Aurora observation period
23:15	Chartered bus back to Kiruna
Friday 8 Feb.	Kiruna town centre, Auditorium, Parkskolan
8:30 – 10:00	Ice particles in the atmosphere, Thomas Kuhn
10:30 – 11:30	Living in a cold climate, Karna Johanson
12:30 - 15:00	Tour of the LKAB underground mine starting from Folkets
	Hus
16:00 – 17:00	Glacier and climate research, Carol Norberg
	Evening: Aurora observations weather permitting
Saturday 9 Feb.	Parkskolan, Auditorium
9:30 – 12:00	Snow exercise
	The exercise comprises an introduction, outdoor snow pack
	investigation involving digging in the snow and measurements,
	concluding with a group discussion.

The Swedish Government finances this course for non-fee paying students. It is a distance course with one meeting in Kiruna from 6 to 9 February 2019.

Participating lecturers

Dr. Carol Norberg, Reader in Space Physics, Umeå University

Dr. Hans Nilsson, Moa Persson, Daniel Kastinen, Philipp Wittmann, Swedish

Institute of Space Physics

Dr. Karna Johanson Senior physician, Kiruna hospital

Dr. Keith Larson, Researcher, Climate Impacts Research Centre

Stefan Hedlund, Abisko tourist station

Dr. Thomas Kuhn, Assistant Professor, Satellite Atmospheric Science Group, Luleå University of Technology

Cold-weather clothing

In order to keep warm in the subarctic climate one should dress according to the three-layer principle. In order to regulate the body's temperature it is better to have several thin layers of clothing than one thick layer. The thin layers create several insulating air layers between them.

- 1. The inner layer should be underwear made of wool, preferably two layers.
- 2. The intermediate layer should be warming, such as a wool jumper or fleece jacket
- 3. The outer layer should protect against the weather, a windproof jacket (e.g. down jacket) and thermal trousers.
- 4. A warm hat and gloves are essential and a scarf is preferred.

A pair of spacious shoes will allow you to fit an extra pair of wool socks and let your toes have room to move. It is advisable to avoid taking a shower or bath before going outside. Avoid using water-based skin creams as these may cause frostbite.

Course coordinator and examiner

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Course administrator

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We reserve the right to make adjustments in the schedule if necessary. The exact schedule will be somewhat dependent on the weather.