

Arctic Science 2020, 4.5 ECTS

Schedule for the Kiruna meeting, 5th – 8th February 2020

<p>Wednesday 5 Feb. 8:00 8:40 – 9:30 9:30 – 9:45 9:45 – 10:15 10:15 – 11:00 11:00 – 12:00 12:15 – 13:15 13:15 13:30 regular bus to Jukkasjärvi 14:30 15:30 or 16:28</p>	<p>Swedish Institute of Space Physics, Aula Bus departs from Folkhögskolan, arrives Space Campus approx 08:30 <i>Course registration, general information and presentation of the course exercises</i>, Carol Norberg & Carina Gunillasson Coffee break <i>Current activities of the Swedish Institute of Space Physics</i>, Joakim Peterson Tour of the Space Campus <i>Living in a cold climate</i>, Fredrik Kjellberg Lunch break Group photograph in front of the Institute Visit to ICEHOTEL, Jukkasjärvi Guided tour of the ICEHOTEL 14:30 to 15:00 Regular bus departs Jukkasjärvi Evening: Aurora observations weather permitting</p>
<p>Thursday 6 Feb. 8:45 10:00 – 11:00 12:00 – 14:00 15:30 – 16:30 16:30 – 17:30 20:00 – 23:00 23:15</p>	<p>Abisko Chartered bus departs from Folkhögskolan for Abisko <i>The climate's impact on the Arctic environment</i>, Keith Larsson at the Abisko Research Station Visit to Mount Nuolja by chair-lift <i>Avalanche safety</i>, Stefan Hedlund, Room Konten. <i>Magnetospheric & auroral physics</i>, Carol Norberg Free time Aurora observation period Chartered bus back to Kiruna</p>
<p>Friday 7 Feb. 9:00 – 11:30 13:00 – 14:30 15:00 – 16:00</p>	<p>Kiruna town centre <i>Tour of the LKAB underground mine starting from Folkets Hus</i> Auditorium, Parkskolan <i>Ice particles in the atmosphere</i>, Thomas Kuhn <i>Science of the Arctic continued</i>, Carol Norberg Evening: Aurora observations weather permitting</p>
<p>Saturday 8 Feb. 9:00 – 11:30</p>	<p>Parkskolan, Auditorium <i>Snow exercise</i> The exercise comprises an introduction, outdoor snow pack investigation involving digging in the snow and measurements, concluding with a group discussion.</p>

The Swedish Government finances this course for non-fee paying students. It is a distance course with one meeting in Kiruna from 5 to 8 February 2020.

Participating lecturers

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

Joakim Peterson and PhD students, Swedish Institute of Space Physics

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