

Arctic Science 2018, 4.5 ECTS
Schedule for the Kiruna meeting, 7th – 10th February 2018

<p>Wednesday 7 Feb. 7:55</p> <p>8:40 – 9:30</p> <p>9:30 – 9:45 9:45 – 10:15</p> <p>10:15 – 11:00 11:00 – 12:00 12:15 – 13:00 13:00 13:30 regular bus to Jukkasjärvi 14:00 15:30 or 16:30</p>	<p>Swedish Institute of Space Physics, Auditorium Regular bus departs bus station, arrives Space Campus approx 08:30</p> <p><i>Course registration, general information and presentation of the course exercises, Carol Norberg & Carina Gunillasson</i></p> <p>Coffee break</p> <p><i>Current activities of the Swedish Institute of Space Physics, Hans Nilsson</i></p> <p>Tour of the Space Campus</p> <p><i>Living in a cold climate, Fredrik Kjellberg</i></p> <p>Lunch</p> <p>Group photograph in front of the Institute</p> <p>Visit to ICEHOTEL, Jukkasjärvi</p> <p>Guided tour of the ICEHOTEL</p> <p>Regular bus departs Jukkasjärvi</p> <p>Evening: Aurora observations weather permitting</p>
<p>Thursday 8 Feb. 13:30 14:45 15:30 – 16:30 16:30 – 18:30 18:30 19:00 – 20:00</p> <p>20:00 – 23:00 23:15</p>	<p>Abisko Chartered bus departs from Folkhögskolan for Abisko</p> <p>Coffee/Tea Abisko tourist station</p> <p><i>Avalanches, Stefan Hedlund, Room Konten.</i></p> <p>Free time</p> <p>Walk to the Abisko Research Station</p> <p><i>The climate's impact on the Arctic environment, Keith Larsson</i></p> <p>at the Abisko Research Station</p> <p>Aurora observation period</p> <p>Chartered bus back to Kiruna</p>
<p>Friday 9 Feb. 9:00</p> <p>9:30 – 11:00 11:15 – 12:15 12:15 – 13:15 13:30 – 14:30 14:30 – 14:45 14:45 – 15:30 15:40</p>	<p>Swedish Institute of Space Physics, Auditorium Regular bus departs from bus station, arrives Space Campus 09:20</p> <p><i>Ice particles in the atmosphere, Thomas Kuhn</i></p> <p><i>Magnetospheric & auroral physics, Carol Norberg</i></p> <p>Lunch</p> <p><i>Glacier research, Per Holmlund</i></p> <p>Coffee break</p> <p><i>Glacier research, Per Holmlund continued</i></p> <p>Regular bus departs from the Space Campus</p> <p>Evening: Aurora observations weather permitting</p>
<p>Saturday 10 Feb. 9:30 – 12:00</p>	<p>Parkskolan, Auditorium <i>Snow exercise</i></p> <p>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 7 to 10 February 2018.

Participating lecturers

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

Dr. Hans Nilsson, Moa Persson, Swedish Institute of Space Physics

Dr. Fredrik Kjellberg, Senior physician

Dr. Keith Larson, Postdoctoral researcher, Climate Impacts Research Centre

Stefan Hedlund, Abisko tourist station

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

Professor Per Holmlund, Department of Natural Geography, Stockholm University.

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

Dr. Carol Norberg, Umeå University

E-mail: carol@irf.se

Telephone +46-70-2793999

Course administrator

Carina Gunillasson, Swedish Institute of Space Physics

E-mail: carina.gunillasson@irf.se

Telephone +46-980-79000

Mobile +46-70-2156929

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