

**Arctic Science 2015, 4.5 ECTS**  
**Preliminary Schedule for the Kiruna meeting, 3<sup>rd</sup> – 6<sup>th</sup> February, 2016**

<p><b>Wednesday 3 Feb.</b> 7:55</p> <p>8:30 – 9:00</p> <p>9:00 – 9:30</p> <p>9:30 – 10:00</p> <p>10:00 – 10:45</p> <p>11:00 – 12:00</p> <p>12:00 – 13:00</p> <p>13:00 – 14:00</p> <p>14:00 – 14:30</p> <p>14:30 – 15:00</p> <p>15:00 – 16:30</p> <p>16:40</p>	<p><b>Swedish Institute of Space Physics, Auditorium</b> Regular bus departs bus station, passes OK Parken 8:00, approx. 8:00, arrives Space Campus 08:25</p> <p><i>General information and course registration</i>, Carol Norberg &amp; Carina Gunillasson</p> <p><i>Current activities of the Swedish Institute of Space Physics</i>, Lars Eliasson</p> <p>Coffee</p> <p>Tour of the Space Campus</p> <p><i>Living in a cold climate</i>, Fredrik Kjellberg</p> <p>Lunch</p> <p><i>Presentation of the course exercises</i>, Carol Norberg</p> <p>Time for project selection</p> <p>Coffee break</p> <p><i>Magnetospheric physics, aurora physics</i>, Carol Norberg</p> <p>Regular bus departs from the Space Campus</p> <p>Evening: Aurora observations weather permitting</p>
<p><b>Thursday 4 Feb.</b> 11:00</p> <p>13:00</p> <p>13:45</p> <p>approx. 14:45</p> <p>15:45</p> <p>16:45</p> <p>19:00 – 20:00</p> <p>20:00 – 23:00</p> <p>23:15</p>	<p><b>Abisko</b> Chartered bus departs for Abisko</p> <p>Chair lift to Aurora Sky Station</p> <p><i>Avalanches presentation</i></p> <p>Coffee and cake can be bought in the Sky Station</p> <p><i>Visit to the aurora exhibition</i></p> <p>Return journey with the chair lift</p> <p>Soup, bread and salad buffet in the restaurant <i>Kungsleden</i></p> <p><i>The climate's impact on the Arctic environment</i>, Keith Larsson at the Abisko Research Station</p> <p>Aurora observations</p> <p>Chartered bus back to Kiruna</p>
<p><b>Friday 5 Feb.</b> 9:00</p> <p>9:30 – 11:00</p> <p>11:10 – 12:10</p> <p>12:10 – 13:00</p> <p>13:30 regular bus to Jukkasjärvi</p> <p>14:00</p> <p>15:30 or 16:30</p>	<p><b>Swedish Institute of Space Physics, Auditorium</b> Regular bus departs from bus station, arrives Space Campus 09:20</p> <p><i>Ice particles in the atmosphere</i>, Thomas Kuhn</p> <p>Film about the construction of the ICEHOTEL</p> <p>Lunch</p> <p><b>Visit to ICEHOTEL, Jukkasjärvi</b> Guided tour of the ICEHOTEL followed by free time to look around.</p> <p>Regular bus departs Jukkasjärvi, arrives at the bus station 17:00.</p> <p>Evening: Aurora observations weather permitting</p>
<p><b>Saturday 6 Feb.</b> 10:00 – 12:00</p>	<p><b>Folkhögskolan, Conference room</b> <i>Snow exercise</i>, Maria Johansson</p> <p>The exercise comprises an introduction, outdoor snow pack investigation, involving digging in the snow and concludes with a group discussion.</p>

The Swedish Government finances this course. It is a distance course with one meeting in Kiruna from 3<sup>rd</sup> to 6<sup>th</sup> February.

A bus journey between town and the Swedish Institute of Space Physics costs 24 Swedish kronor.

### **Participating lecturers**

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

Dr. Lars Eliasson, Director, Swedish Institute of Space Physics

Dr. Fredrik Kjellberg, Senior physician

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

Personnel, Abisko tourist station

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

University of Technology

Maria Johansson, Kiruna

### **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.