

## Announcement

### Winter school on the observation and modeling of high-latitude and Arctic clouds

Hyytiälä, Finland, March 19-25, 2017

The winter school is an advanced course intended for graduate students and researchers who want to receive up-to-date knowledge on the observation and modeling of clouds and precipitation, with a specific focus on Arctic and high-latitude clouds. The course is structured around a combination of lectures and hands-on experience using data from research-grade radars (US DOE ARM and ACTRIS), in situ sensors and state-of-the-art models. The course topics include: *cloud and precipitation observations (cloud radars, lidars, solar and microwave radiometers, in situ sensors), cloud modeling, precipitation formation, boundary layer modeling.*

**Tentative program:** The school program consists of 2-3 lectures per day plus group work. The group work will focus on analysing data and performing model simulations. The school is organized by the University of Helsinki, University of Cologne, University of Leipzig and Delft University of Technology, with lectures given by renowned scientists from Europe and USA.

**Lecturers:** S. Crewell (U. Cologne), K. Ebell (U. Cologne), A. Ehrlich (U. Leipzig), P. Kollias (Stony Brook U.), D. Moisseev (U. Helsinki), E. O'Connor (FMI), J. Quaas (U. Leipzig), H. Russchenberg (TUDelft), M. Shupe (NOAA), V. Sinclair (U. Helsinki), M. Wendisch (U. Leipzig)

The school is the continuation of the series of summer schools organized by the University of Helsinki Nordic ABS program<sup>1</sup>, schools initiated by the Marie Curie ITN ITaRS project<sup>2</sup> and is co-sponsored by the Collaborative Research Centre "Arctic Amplification (AC3)"<sup>3</sup> and the University of Helsinki Doctoral Programme in Atmospheric Sciences (ATM-DP).



**Venue:** The course will be held at the Hyytiälä Forestry Field Station (<http://www.helsinki.fi/hyytiala/english/>).

The station provides a meeting place and accommodation next to a lake in the middle of a Finnish forest. There are two traditional saunas, which will be available for the course attendees.

**Participation costs:** The course fee is 600 €, which covers the cost of accommodation in two-person rooms, all meals (breakfast, lunch, afternoon coffee, dinner, and evening meal) and the transfers between Helsinki and Hyytiälä.

### Application

Applications for the course should be made electronically using the following link: <https://elomake.helsinki.fi/lomakkeet/74502/lomake.html>.

Further information on course content, travel and accommodation: contact [dmitri.moisseev@helsinki.fi](mailto:dmitri.moisseev@helsinki.fi)

**Deadline for applications is 19<sup>th</sup> December 2016.** Students accepted for the school will be notified on 9<sup>th</sup> January 2017.

<sup>1</sup> <http://blogs.helsinki.fi/atmosphere/luovi5/>

<sup>2</sup> <http://itars.uni-koeln.de/index.php/network-events/summer-school-2014>

<http://itars.uni-koeln.de/index.php/outreach/activities/an-itars-sister-arm-summer-workshop-in-oklahoma>

<sup>3</sup> <http://www.ac3-tr.de/>