



A European network for a harmonised monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction

ESSEM COST Action ES1404

COST Action ES1404,

<http://harmosnow.eu>, will arrange

Training School on Snow Observations and Data Assimilation

The event will be held in:

Bormio, Italy in March 12-16, 2018

Objectives of the training school are to learn and discuss the state-of-the-art and developing snow data assimilation methods for NWP, hydrology and detailed snowpack models:

- Importance of snow data assimilation for forecast and applications
- Availability, uncertainties and usage of observations for the models
- Methods of objective analysis and data assimilation
- Using of observations for model evaluation and forcing

Target audience:

- PhD and graduate level students who want to learn data assimilation methods for snow
- Modelers who want to advance their skill in data assimilation and understand the snow observations better
- Observation specialists who want to learn how the observations are used in models

The participants should have a basic knowledge in snow physics and numerical methods. Applicants from COST inclusiveness countries (http://www.cost.eu/about_cost/strategy/excellence-inclusiveness) are encouraged.

Funding: COST will cover all local expenses including accommodation, food and the field trip. The flight tickets and local transport (up to 300 euros) may be covered by COST Action ES1404 upon a request. Applicants should mention whether travel support is a pre-condition or not for their participation to the training school. In very special cases the travel budget can be increased. Up to 20 students will be accepted to the course based on the available budget. The selected students need to pay all expenses first then they will be reimbursed after the training.

Contents and Sessions: lectures, practical exercises and a field trip on

- Introduction to NWP/hydrology/snowpack models and their snow data assimilation
- Methods of data assimilation
- Snow observations applicable for data assimilation in the models
- Snow-related applications

More detailed training program can be found from (<http://harmosnow.eu>)

Credits: COST ES-1404 considers that the school program is equivalent to 3 ECTS.

Organizing committee and confirmed lectures: Ali Nadir Arslan, Patricia de Rosnay, Ekaterina Kurzeneva, Martin Lange, Aynur Sensoy, Albrecht Weerts, Adam Winstral, Antonella Senese, Terhikki Manninen, Carlo de Michele, Patrick Samuelsson and Cemal Melih Tanis.

Important dates: We are waiting for Motivation Letter and CV from the applicants at the latest **26.1.2018**. They should be sent to Cemal.Melih.Tanis at fmi.fi and Ekaterina.Kurzeneva at fmi.fi. We will inform the successful applicants about the acceptance by **2.2.2018**.

Note: we expect that some students will help with exercises. If you are ready to help, please indicate this in your Motivation Letter.

Venue: is <http://www.bormio.it/english/>, <http://www.albergoadele.it/en/>