

## **6th National Seminar on Snow on the day of Pyry\* in collaboration with the COST ES1404 Action**

(\*Blizzard)

Date: Monday, November 2, 2015, at 9.00-16.30

Place: Finnish Meteorological Institute (FMI), room Brainstorm (P-floor),

Erik Palménin aukio 1, 00560 Helsinki

(<http://en.ilmatieteenlaitos.fi/how-to-find-dynamicum>)

### **Preliminary agenda**

#### **9.00–9.30 Registration & Refreshments**

**9.30–9.45 Opening:** Ali Nadir Arslan (FMI)

**09.45–10.15 Keynote speak:** Patricia de Rosnay (ECMWF): Overview of snow modelling and data assimilation activities at ECMWF

**10.15-11.00 Session A. Snow properties** Chair: Jouni Peltoniemi (Finnish Geospatial Research Institute FGI)

- A1.** Petri Räisänen (FMI): Parameterization of single-scattering properties of snow
- A2.** Annakaisa von Lerber (FMI): Microphysics of falling snowflakes: What can we measure?
- A3.** Roberta Pirazzini (FMI): Relationship between snow microstructure and albedo from measurement and modelling perspectives

#### **11.00–11.20 Refreshments & Posters**

**11.20–12.05 Session B. Snow observations and instrumentation** Chair: Juha Lemmetyinen (FMI)

- B1.** Anna Kontu (FMI): SORAX - Sodankylä Radiometer Experiment
  - B2.** Leena Leppänen (FMI): Arctic Snow Microstructure Experiment
  - B3.** Jouni Peltoniemi (FGI): Measurements of snow reflectance, what new can we still find?
- POSTERS:
- B4.** Otto Hyvärinen (FMI): Can satellite-based snow products help in Quality Control of automatic in-situ snow observations in Nordic region?
  - B5.** Roberta Pirazzini (FMI): SVC Dual-sphere spectro-albedometer: an accurate instrument to continuously measure spectral albedo in cold and remote areas.
  - B6.** Niilo Siljamo (FMI): Recent developments of the H-SAF MSG/SEVIRI and Metop/AVHRR based snow extent products
  - B7.** Annakaisa von Lerber (FMI): Instrumentation of measuring solid precipitation

## **12.05–12.20 General discussion**

## **12.20–13.05 Lunch** (self-paid)

## **13.05–13.45 Session C. Snow in models** Chair: Laura Rontu (FMI)

**C1.** Samantha Pullen (UK Met Office): Satellite snow product assimilation in weather models

**C2.** Vesa Kolhinen (Finnish Environment Institute SYKE): Modelling snow water equivalent and thickness in Watershed Simulation and Forecasting System at SYKE

POSTERS:

**C3.** Jaakko Ikonen (FMI): Hydro-validation of the H13 - Snow Water Equivalent Product in Northern Finland - Ounasjoki Case Study (2012 - 2014)

## **13.45–14.35 Session D. Snow and climate** Chair: Hilppa Gregow (FMI)

**D1.** Jouni Räisänen (University of Helsinki UH): Future changes in mean and extreme snowfall in Northern Europe, as simulated by the ENSEMBLES RCMs

**D2.** Ioanna Merkouriadi (UH): Long-term trends and seasonal variability of winter conditions in Finnish Lapland

**D3.** Anna Luomaranta (FMI): Multimodel estimates of the changes in the Baltic Sea ice cover during the present century

## **14.35–15.00 Refreshments & Posters**

## **15.00–15.50 Session E. Living with snow and ice** Chair: Marja Aarnio-Frisk (FMI)

**E1.** Mika Kalakoski (FMI): Experiences from the Finnish Antarctic Research Program FINNARP

**E2.** Marjo Hippinen (FMI): Road weather modelling and snow drift index

**E3.** Mirjam Orvomaa (SYKE): Ground frost variation in Finland.

## **15.50–16.30 Panel / General discussion**

## **16.30 Closing of the seminar:** Kirsti Jylhä (FMI)

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## **16.30 –18.30 Ice-breaker / Buffet**

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Seminar is open for anyone interested. The seminar language is English.

Registration by 28 October 2015 at

<https://www.webropolsurveys.com/S/BD63B8D8B85A041F.par>

Welcome!



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**COST** is an intergovernmental framework for European Cooperation in Science and Technology, allowing the coordination of nationally-funded research on a European level. **ESSEM COST Action ES1404**, *“A European network for a harmonised monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction”*, aims at building a better connection between snow measurements and models, between snow observers, researchers and forecasters, for the benefit of various stakeholders and the entire society. The Action will scrutinise activities related to snow science in terms of (1) observations, (2) instrumentation and (3) data assimilation, aiming at better effectiveness, harmonisation and coverage of snow data.

The 2nd Management Committee (MC) and Working Group meetings of the COST Action are planned to be held in Helsinki on November 2-4, 2015, jointly with the 6th seminar on snow on the day of Pyry. The idea is to disseminate national snow activities to wider international audiences using an opportunity of the international network of the COST Action on Snow.

**For more information:**

Chair of the Action: Ali Nadir Arslan, FMI, [ali.nadir.arslan@fmi.fi](mailto:ali.nadir.arslan@fmi.fi)

<http://www.harmosnow.eu/>

[http://www.cost.eu/COST\\_Actions/essem/Actions/ES1404](http://www.cost.eu/COST_Actions/essem/Actions/ES1404)