

## **COST ES1404 Action**

### **Dissemination Report of “The 7th National Seminar on Snow on the day of Pyry\* in collaboration with the COST ES1404 Action (\*Blizzard), November 1, 2017, part of the Finland 100 programme”**

**Outi Meinander, Finnish Meteorological Institute, 15.1.2018**

#### **1. The seminar**

The seminar of “The 7th National Seminar on Snow on the day of Pyry\* in collaboration with the COST ES1404 Action (\*Blizzard), November 1, 2017, part of the Finland 100 programme” was live-broadcasted in the internet and advertised via social media with the event hashtag #pyry100. The seminar recording is also available in the internet at [harmosnow.eu/](http://harmosnow.eu/).

The event took place following a COST meeting in Helsinki and it was part of the official Finland100, Finland’s 100 year independency celebration programme, also available at <http://suomifinland100.fi/project/seminar-snow-day-pyry-blizzard/?lang=enEvent>.

A special journal issue dedicated to the seminar will appear at [www.geophysica.fi](http://www.geophysica.fi), a peer-reviewed journal, as “Special Issue: 7th National Seminar on Snow on the day of Pyry\*, November 1, 2017, in collaboration with the COST ES1404 Action, part of the Finland 100 programme (\*Blizzard)”. The guest editor is Dr. Outi Meinander.

The seminar program consisted of oral and poster presentations and was joint-organized by the COST ES1404 Action and the Finnish Meteorological Institute. The event gathered 76 participants together in Helsinki and can reach more via internet. Discussions took place after each session and during the joint breaks.

#### **2. The oral presentations**

Welcome and opening was by Director General Dr. Juhani Damski, Finnish Meteorological Institute. Thereafter Johanna Ekman, FMI presented “A short comment on Finland’s chairmanship of the Arctic Council 2017-2019”. The Key note speak was by Docent Esko Kuusisto, Finnish Environment Center: “One hundred

years of snow research in Finland”. The chair for these talks and their discussion was Dr. Outi Meinander.

Thereafter, a COSTES1404 dedicated session took place under the title “European network for harmonized monitoring on snow for the benefit of climate scenarios, hydrology and numerical weather prediction(COST Action ES1404)” with the Chair of Dr Ali Nadir Arslan. He also gave the session’s first talk on “ Introduction to COST Action ES1404”. Thereafter Dr. Roberta Pirazzini (FMI Helsinki) gave an “Overview of the in situ snow albedo measurements”. Then Ms Leena Leppänen (FMI Sodankylä) talked about ”Results of questionnaires on snow measurement practices and data assimilation in Europe”, followed by Dr. Nacho López-Moreno (Spanish National Research Council): “Highlights from the field campaigns”. Discussion was followed.

In the next session, “SNOW SCIENCE AND SERVICES IN FINLAND”, the Chair was Professor Ari Laaksonen, FMI. The KEY NOTE SPEAK was given by Professor Jouni Pulliainen, FMI: “Satellite based research, services and products for high latitude terrestrial areas”. Then Terhikki Manninen, FMI talked on “The effect of snow on boreal forest albedo” and Dr. Elena Saltikoff, FMI:“Snow forecasts for airports”. Thereafter, Dr. Vesa Raulos,Esri Finland:“Esri and GIS in snow management” and Dr. Lasse Makkonen, Technical Research Centre of Finland: “Wet snow” had talks and finally Arttu Jutila, University of Helsinki, Geophysics:”Spatially distributed high-resolution snow evolution modeling”. New aspects were introduced by Teemu Lemmettylä, Finnish Ski Association:“Skiers on Snow”. Discussion took place at the end of the session and during the breaks.

After this session, the poster session took place. Thereafter, the final session included Chair of Professor Yrjö Viisanen, Ms. Paola Livorsi, Sibelius Academy, Helsinki, Finland “Water, snow, air, fire, earth”, a presentation on EU Life+ MONIMET-project team, FMI : "Animation of seasonal changes in Finland using MONIMET camera network”, and finally KEYNOTE SPEAK of Professor Timo Vesala, University of Helsinki: “From Vertigo to Blue velvet - Connotations between movies and climate change”. Discussion was free at the social event ending the day.

### **3. The poster presentations**

The event included the following poster presentations with discussions:

- Annakaisa von Lerber, Finnish Meteorological Institute, Finland, Investigating Dependences of Ze-S relation on Microphysical Properties of Snow
- Jaakko Mäkinen, Finnish Geospatial Research Institute, FGI, Finland, Experience with the Campbell CS725 Snow Water Equivalent sensor at the Metsähovi Geodetic Research Station, Kirkkonummi, Finland
- Juha A. Karhu, Finnish Meteorological Institute, Finland, Effect of snow on solar panel output

- Kati Anttila, Terhikki Manninen, Emmihenna Jääskeläinen, Finnish Meteorological Institute, Finland, Darkening of winter time surface albedo in Finland using CLARA-A2 SAL
- Kirsti Jylhä, Finnish Meteorological Institute, FMI, Finland, Severe sea-effect snowfall on the Finnish coast
- Marke Hongisto, Finnish Meteorological Institute, FMI, Snow in the Finnish golden age painters works
- Outi Meinander et al., Finnish Meteorological Institute, FMI, Finland, High latitude dust and elemental and organic carbon aerosols: what processes make them important to Arctic snow and ice?
- Piia Post, University of Tartu, Estonia, Observing Large-scale Atmospheric Moisture Transport from Multiple Sources to Analyse Severe Snow Storm in the Baltic Sea Region (invited)
- Xiao Deng, Tainyuan University of Technology, China, Multi-sensors monitoring method on snow and ice parameters in the Heilongjiang, the northernmost river of China.

#### 4. The event page in the internet

<http://harmosnow.eu/index.php?page=01.11.2017,%20Helsinki#Doc>



The key note speaker of the seminar, docent Esko Kuusisto.