

Joint MUSCATEN and NetICE Workshop on
“Modelling of snow-ice-atmosphere interactions”
Kuopio 24-26 March 2010

Joint MUSCATEN and NetICE Workshop

<http://muscaten.ut.ee/SNOW10>

Modelling of snow-ice-atmosphere interactions

Kuopio, Finland, 24-26 March 2010

Programme

Wednesday, March 24th. Microtower building, meeting room SKY 1

09:00 - 09:30 Registration

09:30 - 09:40 Workshop Opening

Morning Session - Assimilation of snow and ice observations. Chaired by Marko Kaasik

09:40 - 10:20 *Application of satellite snow and ice measurements in NWP* Jouni Pulliainen

10:20 - 10:45 *Impact of data assimilation on modelled snow-atmosphere interactions* Richard Essery

10:45 - 11:15 *Refreshments*

11:15 - 11:40 *Snow analysis in HIRLAM and HARMONIE* [Mariken Homleid](#)
11:40 - 12:05 *Assimilation of satellite snow observations in HIRLAM* [Kalle Eerola](#) and [Suleiman Mostamandy](#)
12:05 - 12:30 *Experiments with CANARI snow analysis* [Jure Cedilnik](#)
12:30 - 13:00 *Session final discussion*

13:00 - 14:00 *Lunch*

Afternoon Session - Snow and ice in numerical weather prediction (NWP) and climate models. Chaired by Eric Bazile

14:00 - 14:40 *Snow parametrizations in NWP and climate models* [Patrick Samuelsson](#)
14:40 - 15:20 *Snow in SURFEX* [Aaron Boone](#) (invited speaker)
15:20 - 15:45 *About double energy balance in snow-covered forest* [Stefan Gollvik](#)

15:45 - 16:10 *Refreshments*

16:10 - 16:35 *Modelled and observed ABL structure and processes in a snow-covered forest* [Carl Fortelius](#)
16:35 - 17:00 *HIRLAM on ice - experimenting with an operational NWP* [Laura Rontu](#)
17:00 - 17:30 *Session final discussion*

Thursday, March 25th. Microtower building, meeting room SKY 1

Morning Session - Dynamical and thermodynamical models of snow and ice; model systems. Chaired by Jorma Kuparinen

09:00 - 09:40 *Detailed snow-pack modelling and its application to snow-cover monitoring, hydrology, road meteorology and climate* [Eric Brun](#) (invited speaker)

09:40 - 10:05 *Modelling of snow and ice thermodynamics with HIGHTSI using atmospheric data from HIRLAM* [Bin Cheng](#)

10:05 - 10:30 *WRF Model Experiments on the Antarctic Atmosphere in Winter* [Esa-Matti Tastula](#)

10:30 - 10:55 *Snow in the NWP at Meteo France and new opportunities for snow climatology (EURO4M)* [Eric Bazile](#)

10:55 - 11:25 *Refreshments*

11:25 - 11:50 *Sensitivity of permafrost and season freezing evolution to regional simulation of snow cover* [Tatiana Pavlova](#) (invited speaker)

11:50 - 12:15 *Frequency of ground-based thermal inversions in Estonia and relations with snow cover* Eva-Stina Kerner
12:15 - 12:40 *Assimilation of snow data for modelling of snow distribution in Swedish mountain and forest areas*
David Gustafsson

12:40 - 13:15 *Session final discussion*

13:15 - 14:15 *Lunch*

Afternoon Session - Chemistry, pollution, ecosystems of snow and ice related to atmosphere; applications. Chaired by Patrick Samuelsson

14:15 - 14:55 *Ecology of Baltic Sea Ice* Janne-Markus Rintala

14:55 - 15:10 *NetICE - a Nordic network on sea ice research* Jorma Kuparinen

15:10 - 15:35 *25 years of snow-based air pollution studies in Estonian oil shale processing region* Marko Kaasik

15:35 - 16:00 *Modelling of fly ash deposition in Estonian oil shale processing region and validation based on deposition in snow cover* Riinu Ots and Ardi Loot

16:00 - 16:30 *Refreshments*

16:30 - 16:50 *Finnish icing atlas 2010* Karoliina Ljungberg

16:50 - 17:20 *Session final discussion*

17:20 - 17:30 *Preparation for the Friday working sessions*

19:30 - *Workshop dinner in hotel Savonia*

Friday, March 26th. Hotelli Savonia meeting room

09:00 - 11:00 *Working/planning groups and meetings on workshop topics*

11:00 - 11:30 *Refreshments*

11:30 - 12:30 *Workshop final discussion*

12:30 - 12:35 *Closure of the workshop*

Participants

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