

Workshop on snow data assimilation, March, 8/9, 2017, Offenbach, Germany

Registered Attendees

1. Helmert, Jürgen, DWD, Germany
2. Lange, Martin, DWD, Germany
3. Marcucci, Francesca, COMET, Italy
4. Bettems, Jean-Marie, MeteoSwiss, Switzerland
5. Dong, Jiarui, NOAA/NCEP/EMC, United States
6. Milelli, Massimo, ARPA Piemonte, Italy
7. Koch, Roland, ZAMG, Austria
8. Rozinkina, Inna, Hydrometcenter of Russia, Russian Federation
9. Souverijns, Niels, KU Leuven, Belgium
10. Kurzeneva, Ekaterina, FMI, Finland
11. Samuelsson, Patrick ; SMHI, Sweden
12. Böhm, Uwe, DWD, Germany
13. De Michele, Carlo, Politecnico di Milano, Italy
14. de Rosnay, Patricia ; ECMWF, United Kingdom
15. Gustafsson, David, SMHI, Sweden
16. Trentmann, Jörg, DWD, Germany
17. Bartik, Martin, Slovakia
18. Müller, Richard, DWD, Germany
19. Osuch, Marzena, Institute of Geophysics Polish Academy of Sciences, Poland
20. Churulin, Evgeniy, Hydrometcenter of Russia, Russian Federation

Goals

Of particular relevance for this workshop are presentations on:

- Data assimilation methods and use of snow observations
- Snow observations and evaluation
- Snow observations and models
- Snow observations and hydrological models

with discussions on

- Methods for combining satellite observations with conventional in-situ snow measurements and modeling results
- Spatial and temporal representativeness errors of snow measurements for data assimilation in NWP and hydrological models".

Organisational issues

The workshop starts on March, 8 after Lunch, 13:00 at the meeting point of the COSMO / CLM / ICON / ART - User Seminar in the Headquarter of DWD (Frankfurter Str. 135, Offenbach, Germany, 50.103357N, 8.747896E) .

When you arrive in Frankfurt Airport, please take the suburban rail service (S-Bahn, lines S8 and S9, directions Hanau, Offenbach-Ost) to the S-Bahn station Offenbach-Ledermuseum. Information on public transport you will find here: <https://www.rmv.de/en/>

There is the possibility to get a lunch before the workshop in the DWD canteen (own costs).

Agenda

Please note: Please adapt your presentation time to allow for 10 min open floor discussion after each scientific presentation.

March, 8, 2017

13:30 J. Helmert et al: Welcome

Data assimilation methods and use of snow observations

- 13:45 J. Dong et al. (invited): Assimilation of the AFWA Snow Depth Product into NCEP Operational CFS/GFS System
- 14:30 P. de Rosnay et al.: Snow data assimilation for Numerical Weather Prediction
- 15:00 D. Gustafsson et al.: Assimilation of in-situ and satellite snow data for hydrological forecasting in Sweden - a hydropower case study
- 15:30 E. Kuzmina et al., E.Churulin: Experience of preoperational runs for winter 2016/17 of SNOWE- technology for continuous modelling (from synoptical observations) and for initialisation for COSMO runs of SWE values

Coffee Break

Snow observations and evaluation

- 16:15 M. Lange: Monitoring of snow reporting practice
- 16:45 E. Kurzeneva et al.: Evaluation of remote sensing snow observations for perspective of DA in NWP
- 17:15 R. Müller et al.: Brief discussion of IMS and LSA-SAF products
- 17:45 J. Trentmann et al.: Evaluation of satellite-based snow coverage information with surface observations
- 18:15 A. Gossart et al., N. Souverijns: Blowing snow detection: a comparison of satellite imagery with ground-based remote sensing observations at Princess Elisabeth Station, East Antarctica

Social - Dinner (own costs)

We reserved a table for 20 persons 19:30 in Münch's Restaurant

March, 9, 2017

Snow observations and models

- 9:00 C. De Michele and Da Ronco, P. : The role of topography in snow cover distribution over a regional scale: evidences from Aqua/Terra MODIS and RCM snow cover simulations (cancelled)
- 9:30 R. Koch and Olefs, M.: Impact of MODIS snow cover fraction on modeled SNOWGRID quantities
- 10:00 U. Böhm et al.: Combining Ground-based and Remote Sensing Snow Observations within the Model SNOW4
- 10:30 Discussion

Coffee Break

Snow observations and hydrological models

- 11:15 M Bartik and Satala, T.: Snow observations in forested mountain areas
- 11:45 M. Osuch et al.: Analysis of applicability of the HBV model for arctic unglaciated catchment
- 12:15 Discussion

Final discussion of the workshop

- 12:30 Final discussion and closing

Lunch (own costs)