## Programme

<table>
<thead>
<tr>
<th>12th of Sept.</th>
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<tbody>
<tr>
<td>10:30 – 11:30</td>
<td>Registration</td>
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<tr>
<td>11:30 – 12:45</td>
<td>Lunch</td>
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<tr>
<td><strong>Introduction</strong></td>
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| 13:00 – 13:10 | Welcome | Prof. Lena M. Tallaksen  
University of Oslo |
| **Session 1: Land-atmosphere interactions** |  |
| 13:10 – 13:55 | **Keynote:** Title to be given | Dr. Aaron Boone,  
Centre National de Recherche  
Météorologique, Météo-France |
| 13:55 – 14:15 | Understanding land/atmosphere interactions  
through the DIurnal land/atmosphere Coupling Experiment (DICE) | Martin Best,  
Met Office, United Kingdom |
| 14:15 – 14:35 | Data-driven assessments of surface energy and  
water balance responses to land cover or  
management change | Ryan M. Bright,  
Norwegian Institute of  
Bioeconomy Research |
| 14:35 – 14:55 | Carbon and soil moisture interactions – the  
Mocabors project | Holger Lange,  
Norwegian Institute of  
Bioeconomy Research |
| 14:55 – 15:25 | Coffee break |  |
| 15:25 – 16:10 | **Keynote:** Coupled and uncoupled atmosphere -  
land surface modelling involving vegetation,  
permafrost and snow surfaces | Prof. Frode Stordal,  
University of Oslo |
| 16:10 – 16:30 | Identifying feedbacks between the land surface and  
the atmosphere in a seasonally snow  
covered region (Southern Norway) | Irene Brox Nilsen,  
University of Oslo/Norwegian  
Water Resources and Energy  
Directorate |
| 16:30 – 16:50 | Solving the surface energy balance: the quality  
of model estimates of downward radiation and  
near surface humidity for mainland Norway | Helene B. Erlandsen,  
Norwegian Water Resources and  
Energy Directorate |
| 16:50 – 17:10 | Reproduce October 2014 Flood at a small basin  
in Voss, Western Norway by a fully coupled  
atmosphere-hydrological modelling system | Lu Li,  
Uni Research Climate/Bjerknes  
Centre for Climate Research |
| 17:10 – 18:15 | Break |  |
| 18:15 – 19:30 | Poster session with drinks |  |
| 19:30 | Dinner |  |
**13th of Sept.**

### Session 2: Land-atmosphere interactions

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>09:00 – 09:45</td>
<td><strong>Keynote:</strong> Assimilation of snow observations for numerical weather prediction</td>
<td>Dr. Patricia de Rosnay, European Centre for Medium-Range Weather Forecasts, United Kingdom</td>
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<tr>
<td>09:45 – 10:05</td>
<td>Ensemble-based subgrid snow data assimilation</td>
<td>Kristoffer Aalstad, University of Oslo</td>
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<tr>
<td>10:05 – 10:25</td>
<td>Assimilation of SMOS and SMAP Brightness Temperature into a Land Surface Model over Northern Latitudes</td>
<td>Jostein Blyverket, Norwegian Institute for Air Research/University of Bergen</td>
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<tr>
<td>10:45 – 11:15</td>
<td>Coffee break</td>
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<tr>
<td>11:15 – 11:35</td>
<td>Regional Snow Modeling in Norway with SURFEX/Crocus</td>
<td>Hanneke Luijting, Norwegian Meteorological Institute</td>
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<tr>
<td>11:35 – 11:55</td>
<td>On the use of an explicit snow scheme in NWP</td>
<td>Trygve Aspelien, Norwegian Meteorological Institute</td>
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<tr>
<td>11:55 – 12:15</td>
<td>Use of precipitation radar for improving estimates and forecasts of precipitation estimates and streamflow</td>
<td>Kolbjørn Engeland, Norwegian Water Resources and Energy Directorate</td>
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<td>12:15 – 12:35</td>
<td>Flow estimation using hydrological modelling by RADAR-estimated precipitation</td>
<td>Denis Duda Costa, Lund University, Sweden</td>
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<td>12:35 – 13:45</td>
<td>Lunch</td>
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### Session 3: From modelling to decisions

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<tr>
<td>13:45 – 14:30</td>
<td><strong>Keynote:</strong> Title to be given</td>
<td>Prof. Markku Rummukainen, Lund University, Sweden</td>
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<tr>
<td>14:30 – 14:50</td>
<td>Added value of regional and convective-permitting simulations of present and future precipitation in Northern Europe</td>
<td>Louis Marelle, Center for International Climate Research, Norway</td>
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<tr>
<td>14:50 – 15:10</td>
<td>An integrated assessment framework to study the impacts of forest structure and management on hydrological fluxes in Norway</td>
<td>Stephanie Eisner, Norwegian Institute of Bioeconomy Research</td>
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<tr>
<td>15:10 – 15:30</td>
<td>The use of national forest inventory data to model soil moisture and soil carbon dynamics in earth system models</td>
<td>Jogeir N. Stokland, Norwegian Institute of Bioeconomy Research</td>
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<tr>
<td>15:30 – 15:50</td>
<td>Modeling Snow Dynamics Using a Bayesian Network</td>
<td>Bernt Viggo Matheussen, Agder Energi/University of Agder</td>
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<tr>
<td>15:50 – 16:15</td>
<td>Break</td>
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<tr>
<td>16:15 – 18:15</td>
<td>Excursion</td>
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<tr>
<td>20:00</td>
<td><strong>Conference dinner</strong></td>
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<tr>
<td>Time</td>
<td>Session 3: From modelling to decisions</td>
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| 09:00 – 09:45| **Keynote**: Translating weather extremes into the future – a case for Norway  
Dr. Jana Sillman,  
Center for International Climate Research, Norway |
| 09:45 – 10:05| Projected changes in flooding under a future climate in Norway: How 'certain' are our estimates?  
Deborah Lawrence,  
Norwegian Water Resources and Energy Directorate |
| 10:05 – 10:25| Evaluation of summer precipitation from EUR-11 simulations over Norway  
Anita Verpe Dyrrdal,  
Norwegian Meteorological Institute |
| 10:25 – 10:55| **Coffee break** |
| 10:55 – 11:40| **Keynote**: Title to be given  
Prof. Oddbjørn Bruland,  
Norwegian University of Science and Technology |
| 11:40 – 12:00| Can hydrological non-stationarity be achieved with event-based conceptual models in northern regions?  
Justice O. Akanegbu,  
University of Oulu, Finland |
| 12:00 – 12:20| Spatially Consistent Post-processing of Daily Mean RCM Temperature Projections in Norway – a Case Study in Trøndelag  
Qifen Yuan,  
Norwegian Water Resources and Energy Directorate/University of Oslo |
| 12:20 – 12:40| Modeling the Hydro-Climatic Effects of Land Use and Land Cover Changes in the Euphrates and Tigris Basin Under a Changing Climate  
Yeliz Yılmaz,  
Istanbul Technical University |
| 12:40 – 14:00| **Lunch** |
| 14:00        | **Thank you and good bye** |
POSTERS

Seasonal and interannual variability of moisture transport to the East Asian Summer Monsoon
Astrid K. Fremme, Harald Sodemann, University of Bergen/Bjerknes Centre for Climate Research

Runoff dynamics in a forested catchment - investigating the relations between river network density, subsurface water capacity and subsurface water celerities
Thomas Skaugen¹, Søren Boje¹, Ivar Olaf Peerebom², Knut M. Møen¹ and Steinar Myrabø²
¹Norwegian Water Resources and Energy
²Norconsult AS, Lillehammer

Estimation of energy balance components in a mountain environment based on high resolution climate data
Vatne A., Engeland K., Burkhart J.F, Tallaksen L.M., University of Oslo

Automatic Model Calibration using Multi-objective Optimization
1. Min Shi, Norwegian Meteorological Institute
2. Hong Li, Norwegian Water Resources and Energy Directorate

Evaluation of conventional climatological datasets for snow- and hydrological modeling in Norway
Tuomo Saloranta¹, Cristian Lussana², Thomas Skaugen¹, Jan Magnusson¹, Ole Einar Tveito², and Jess Andersen¹
¹Norwegian Water Resources and Energy Directorate
²Norwegian Meteorological Institute

A stochastic PQRUT model for flood estimation in small and medium-sized catchments
Valeriya Filipova¹, Deborah Lawrence², Harald Klempe¹, Thomas Skaugen²
¹Telemark University College, INHM
²Norwegian Water Resources and Energy Directorate

Comparison of regionalization approaches’ robustness under climate change: a case study in Norway
X. Yang, C.Y. Xu, University of Oslo
J. Magnusson, Norwegian Water Resources and Energy Directorate

Using model and satellite data to investigate the effect and uncertainties of light absorbing impurities in snow on the discharge generation in an Indian high-mountain catchment
Felix Matt, University of Oslo
John F. Burkhart, University of Oslo/Statkraft AS

The Morphological Evolution of a Wind-Shaped Snow Surface during a Storm Event at Finse, Norway
Simon Filhol¹, Norbert Pirk¹, Thomas V. Schuler³, John F. Burkhart¹
¹ Department of Geosciences, University of Oslo

Spatial distribution of peatland in the boreal zone
Jogeir N. Stokland, Norwegian Institute of Bioeconomy
Integrating soil moisture satellite retrievals in land surface simulations
Å. Bakketun¹, J. Blyverket², W. Luijting³, M. Homleid³, T. Aspelien³, J. Kristiansen³, F. Stordal¹
¹Department of Geosciences, University of Oslo
²Norwegian Institute for Air Research, Kjeller
³Norwegian meteorological institute

The surface energy exchange of Alpine and Arctic ecosystems in response to snowmelt and rain events
Norbert Pirk, Astrid Vatne, Torben R. Christensen, John F. Burkhart, Lena M. Tallaksen,
University of Oslo

Parameterizing snow redistribution effect of terrain parameters in a conceptual hydrological model
Tweldebrahn, A.T., Burkhart, J.F. and Schuler, T.V., University of Oslo

Climate oscillation and effects on the interannual-to-multiannual variability of the rainy season in Eastern Northeast Brazil
Denis Duda Costa¹; Carlos R. Fragoso Jr² & Cintia B. Uvo¹
¹Lund University, Department of Water Resources Engineering
²Federal University of Alagoas, Center for Technology, Brazil

Hydro-glacial modelling in the Hardangerjøkullen area
Hong Li, Stein Beldring, Kjetil Melvold, Gusong Ruan
Norwegian Water Resources and Energy Directorate