## Norwegian Hydrological Council

## 8th Conference on Modelling Hydrology, Climate and Land Surface Processes

Scandic Victoria Lillehammer Hotel, 2–4 September 2025

## Programme

Tuesday 02 Sep	otember 2025	Title
1000 - 1100	Registration	
1100 - 1110	Introduction	
1110 - 1200	Björn Klöve	Observing and modelling climate-land- energy-water interactions in cold climate
1200 - 1300	Lunch	
1300 - 1735	Session 1: Local impacts of global climate change: data, methods, and communication strategies	
1300 - 1345	Benjamin Sanderson	Towards emissions and activity-driven Earth System Modelling
1345 - 1405	A.Dyrrdal et al.	New national climate and hydrological projections for Norway
1405 - 1425	K.Valseth et al.	CAMELS-Nordic, a large-scale hydrometeorological and catchment properties dataset for Norway and Sweden
1425 - 1445	K. Engeland et al.	Climate change impacts on hydropower production and water availability in Drammen river basin in Norway
1445 - 1500	Coffee break	
1500 - 1520	A.Nair et al.	Understanding Land–Atmosphere Coupling During Dry Extremes in Norway: A Multi- Reanalysis Comparison
1520 - 1540	K.Ødemark et al.	Extreme Event Attribution Service at MET Norway: Storyline attribution of storm Hans
1540 - 1600	L.Wang et al.	Identifying mechanisms of soil moisture drought using causality decomposition: A case study in the Yellow River Basin, China

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1600 - 1620	M.Osuch et al.	Thawing Permafrost and High Arctic Catchment Response: A Case Study from Fuglebekken, SW Spitsbergen
1620 - 1635	Coffee break	
1635 - 1655	S.Huang et al.	Impacts of empirical and physical evaporation methods on changes in hydrological components and drought propagations under climate change scenarios
1655 - 1715	S.Nordeide et al.	Using LSTM for streamflow prediction in ungauged catchments in Norway
1715 - 1735	N.Maurin et al.	Assessing Green Roof hydrological performance Under Climate Variability and Change Using High-Resolution Convection- Permitting Climate models
1735 - 18:30	Break	
18:30	Dinner	

Wednesday 03 September 2025		
0900 - 1255	Session 2: Changing climate and seasonal snow dynamics in cold regions	
0900 - 0945	Richard Essery	Snow modelling on climatological, meteorological and hydrological scales
0945 - 1005	T.Saloranta et al.	Projected changes in snow avalanche activity in Norway in a future climate towards 2100
1005 - 1025	K.Aalstad et al.	Global ensemble-based snow reanalysis
1025 - 1045	O.Silantyeva et al.	Assessing snow sublimation in Norway: insights from field and laboratory work of SnowSub project
1045 - 1105	Coffee break	
1105 - 1125	A.Alphonse et al.	Evaluating Model Performance in Simulating Ground Thermal Regimes: A Multi-Model Comparison

1125 - 1145	J.Oprel et al.	phys	essing potential benefits of sics-based snow modelling for vegian hydropower production ning
1145 - 1205	H.Sodemann	hydro citize	aining physical constraints for ological model calibration from en science snow collection in ndinavia
1205 - 1215	Coffee break		
1215 - 1235	Y.Yilmaz et al.	Strea	stigating Snowpack and amflow Changes with Snow Data milation in Hardangervidda
1235 - 1255	C.Zwart et al.	by to isoto	er extraction from the atmosphere pography: using novel water ope observations to obtain better E estimates
1255 - 1350	Lunch		
1350 - 1530	Poster session		
1350 - 1430	Poster presentation in plenar	y sess	sion (2 min pr. poster)
1430 - 1530	- 		
	Poster session (authors and	titles a	at last page)
1530 - 1545	Coffee break		
1545 - 1600	A.H. Evensen and A.Breili		Excursion presentation
1600 - 1815	Excursion to flood mitigation measures at Røyslimoen		
1930	Conference Dinner		

Thursday 04 September 2025			
0900 - 1255	Session 3: Impact of runoff dynamics on water quality and ecosystems		
0900 - 0945	Gesa Weyhenmeyer	Challenges and Opportunities of an Unfrozen Future on Ecosystem Services from Lakes	
0945 - 1005	S.Anmarkrud et al.	Inverse modelling of vertical temperature in shallow lakes	
1005 - 1025	G.Riise	Long term changes in lake color diversity in a boreal lake district of Norway	
1025 - 1045	M.Norling et al.	Predicting DOC fluxes from boreal headwater catchments: a simple, transferable process-based modelling approach	
1045 - 1105	Coffee break		
1105 - 1125	L.Jackson-Blake	Nitrate sources and fluxes in a changing Arctic: a dynamic modelling study on Svalbard	
1125 - 1145	N.Hanselmann et al.	Integrating Freeze-Thaw Dynamics into the HBV Model for Improved Hydrological Simulation in Svalbard	
1145 - 1205	R.Barneveld et al.	Modelling the hydrology of peat restoration	
1205 - 1215	coffee break		
1215 - 1235	S.Bakke et al.	Estimating low flow indices anywhere – is LSTM the way to go?	
1235 - 1255	T.Skaugen	The hydrological signature of landslides- towards the forecasting of landslides using hydrological models	
1255 - 1300		Conference closure	
1300 - 1400	Lunch		

Wednesday 03 September 2025		
1350 - 1530	Poster session	
K.Tunheim et al.	Klimakverna: Understanding municipal needs for localized climate change information	
M.Eide et al.	Mitigating urban runoff and pollution in Oslo Fjord: mapping source area and predicting spatiotemporal variability	
K.Grunewald et al.	Assessing the performance of Tåsenveien rain garden in Oslo under present and future climate change scenarios	
A.Skålevåg et al.	Extreme Event Attribution Service at MET Norway: Probabilistic attribution of the exceptionally warm Arctic summer of 2024	
T.Venstad et al.	Assessing Hectometric Resolution in NWP Models and Its Influence on the Representation of Precipitation in Norway's Coastal Regions with Complex Orography	
J.Anonsen et al.	Evaluating persistence in Northern European weather patterns in a changing climate	
D.Treichler et al.	Performance of high-resolution snow Depth data from ICESat-2 spaceborne laser altimetry	
M.Ahlbäck et al.	Temporal Dynamics and Hydrological Impacts of Snow- Atmosphere Vapor Exchanges in a High-Altitude Catchment	
M.Mazzolini et al.	Data assimilation of sparse snow depth observation with optimized spatial transfer of information	
H.Erlandsen et al.	The Climate-Ecological Observatory for Arctic Tundra (COAT) - weather & snow - observations & models	
A.Alphonse et al.	Surface Temperature Variability in the High Arctic: UAV Thermal Monitoring of Groundwater and Surface Water Interactions	
M.Peter et al.	Improving modeling of thermo-hydrological changes in permafrost ground connected to lake level changes in the Qinghai-Tibet-Plateau	
I.Nilsen et al.	Observed long-term trends in snow conditions for Norway	
I.Mužić at al.	Evaluating Land-Atmosphere Interactions in the coupled WRF- CTSM model over Nordic Fennoscandia	