

Schedule of display discussions of session HS 2.1.2 Snow and ice accumulation, melt, and runoff generation in catchment hydrology: monitoring and modelling

First display time:

	TITLE	MAIN AUTHOR
8:30-8:35	Introduction	
8:35-9:10 Snow cover	Regional pattern of annual snow cover duration in the Greater Alpine Region (2000 – 2018) A Novel Perspective on Mapping Snow Cover Under Forest Canopy With Sentinel-2 Multispectral Optical Satellite Sensor Over Black Forest Germany Estimating snow line elevation using publicly available webcam images and Sentinel-2 snow cover maps Development and Evaluation of a New "Snow Water Index (SWI)" for Accurate Snow Cover Delineation Towards a Pan-European snow cover and melt extent product from Sentinel-1 SAR and Sentinel-3 SLSTR Data How is snow cover in global mountain area changing? Detection of snow cover and snow phenology changes by using MODIS imagery over 2000 - 2018 Evaluation the MOD10A1 daily snow albedo product (v. 6) on Livingston Island, Antarctica	Markus Hrachowitz Arnab Muhuri Céline Portenier Abhilasha Dixit Lars Keuris Claudia Notarnicola Alejandro Corbea-Pérez
9:10-9:15	Quizz / Break	
9:15-9:40 Glaciers and ice	What happens when the ice is gone? A hydrological journey into the glacier forefield subsurface What is the contribution of snow and glacier to discharge in Swiss alpine headwater catchments under climate change? Hydrological response to warm and dry extremes in glacierized catchments: when and how are glaciers compensating? Deriving water content from multiple geophysical properties of a firm aquifer in Southeast Greenland Influence of seasonally frozen ground on hydrological partitioning – a global systematic review	Tom Müller Daphné Freudiger Marit Van Tiel Siobhan Killingbeck Hannu Marttila
9:40-9:45	Quizz / Break	
9:45-10:10 Remote sensing and modelling	Estimation of snow water equivalent in a mountain range by using a dynamic regression approach Exploitation of X-band SAR images and ground data for SWE retrieval through a machine learning technique Soil moisture dynamics in winter under heavy snowfall conditions in Shonai (Japan) Trends of the Degree-Day Factors in the mountainous regions CRAMPON: A Particle Filter to assimilate sparse snowpack observations into a semi-distributed geometry Insights into precipitation orographic enhancement from snow- course data and their value for improved hydrologic predictions	Antonio-Juan Collados-Lara Ludovica De Gregorio Alexander Brandt Muhammad Fraz Ismail Bertrand Cluzet Francesco Avanzi
10:10-10:15	Wrap-up / last questions	

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Second display time:

10:45-10:50	Introduction		
10:50-11:25	Mathematical simulation of melting mountain glaciers	Egor Belozerov	
Glacier and hydrologic modeling	A first attempt to model an Artificial Ice Reservoir (Ice Stupa) using a simple energy balance approach	Suryanarayanan Balasubramanian	
	Calibration of a semi-distributed hydrological model adding constrains from remotely sensed snow cover and soil moisture products	Rui Tong	
	regionalization of the potential to increase rainfall-runoff model performance by multi-objective calibration using modis data over Austria	Martin Kubáň	
	Combined use of geostatistical and conceptual hydrological models for a preliminary assessment of "undercatch" of precipitation in The Canales Basin (Sierra Nevada, Spain)	David Pulido- Velazquez	
	Modeling spatial snow-cover distribution using snow-melt models and MODIS images	Dhiraj Raj Gyawali	
	Recent patterns of discharge and sediment output of the Gorner Glacier, Switzerland	Günther Prasicek	
11:25-11:30	Quizz / Break		
11:30-12:00	PRISMA hyperspectral satellite mission: first data on snow in the Alps	Biagio Di Mauro	
Remote sensing and modeling	Case Study of Blowing Snow Potential Diagnosis with Dynamical Downscaling	Seika Tanji	
	Impact of satellite and in situ data assimilation on hydrological predictions	Ilias Pechlivanidis	
	Baseflow separation methods in snowfed rivers in Mediterranean catchments: a process-oriented assessment for hydrograph analysis	Pedro Torralbo	
	Assessing impacts of future potential climate change scenarios on snow cover area by using cellular automata models and Montecarlo simulations	David Pulido-Velazquez	
12:00-12:05	Quizz / Break		
12:05-12:30	Changes in seasonal snowpack in mountain catchments in Czechia	Ondrej Nedelcev	
Snow cover	Investigating global changes in snow dynamics and the impact on water resources	Adrià Fontrodona Bach	
	Snow Water Equivalents exclusively from Snow Heights and their temporal Change: The Δ SNOW.MODEL	Michael Winkler	
12:30-12:35	Wrap up / good bye		