

Schedule of CR3.2/AS4.11/CL2.19/HS2.1.10 session:

Modelling and measuring snow processes across scales

Convener: Nora Helbig, Neige Calonne, Richard L.H. Essery, Henning Löwe, Vincent Vionnet

Chat Thu, 07 May 2020, 14:00–15:45

1) Short introductory videos of this session displays can be downloaded as session material.

2) Some chat recommendations:

- Conveners will introduce each block and call the corresponding authors. The authors are invited to paste their highlights by a few prepared sentences.
- Please make sure you always start your message with an @ sign followed by the name of the person you are sending the question or answer to.
- For authors: Please reply to open questions even if the next block has started.

Chair: Nora Helbig & Vincent Vionnet			
14:00-14:30	Title	Author	Display
	Snowpack modelling in central Italy: analysis and comparison of high-resolution WRF-driven Noah LSM and Alpine3D simulations	Edoardo Raparelli	D2614
	The importance of modelled processes in the evolution of snow cover versus snow mass	Lawrence Mudryk	D2615
	Latest scientific and technical evolutions in the Crocus snowpack model	Matthieu Lafaysse	D2617
	Process-based simulation of snow cover evolution in ski resorts using the AMUNDSEN model: results and validation	Florian Hanzer	D2618
Chair: Henning Löwe & Richard Essery			
14:35-15:10	Title	Author	Display
	Numerical solution of the mass continuity equation for snowpack modeling on moving meshes: Coupling between mechanical settling and water vapor transport	Anna Simson	D2619
	The RHOSSA campaign: Multi-resolution monitoring of the seasonal evolution of the structure and mechanical stability of an alpine snowpack	Neige Calonne	D2620
	An implicit physical water percolation model	Willem Jan van de Berg	D2621

	Simple estimations of new and bulk snow density in the Italian Alps: Lessons from a decade of distributed observations	Nicolas Guyennon	D2622
	Why is Snow Slippery? The Role of Abrasion in Snow Kinetic Friction	James Lever	D2623
Chair: Vincent Vionnet & Neige Calonne			
15:15-15:45	Title	Author	Display
	Scaling behavior of lidar-derived snow depth across the semi-arid Chilean Andes	Pablo Mendoza	D2624
	Towards a scale-independent fractional snow-covered area parameterization for complex terrain	Nora Helbig	D2625
	The growth of snow bedforms	Kelly Kochanski	D2626
	The genesis of a climate archive: snow pack studies at four polar sites	Johannes Freitag	D2628
15:45	Closing session		