



HS2.1.2 / CR3.6

Snow and ice accumulation, melt, and runoff generation in catchment hydrology: monitoring and modelling

Long-time running session (> 10 years)

Aims at bringing together hydrologists with interest in snow and snow scientists with interest in hydrology

51 abstracts (after merge with remote sensing for hydrology session)

Including 35 Early Career Scientists main authors

Topics covered:

- experimental research on snowmelt runoff processes and potential implementation in hydrological models;
- development of novel strategies for snowmelt runoff modelling in various (or changing) climatic and land-cover conditions;
- evaluation of remote-sensing (time-lapse imagery, laser scanners, radar, optical photography, thermal and hyperspectral technologies) or in-situ snow products (albedo, snow cover or depth, snow water equivalent) and application for snowmelt runoff calibration, data assimilation, streamflow forecasting or snow and ice physical properties quantification;
- observational and modelling studies that shed new light on hydrological processes in glacier-covered catchments, e.g., impacts of glacier retreat on water resources and water storage dynamic or the application of techniques for tracing water flow paths;
- studies on cryosphere-influenced mountain hydrology, such as landforms at high elevation and their relationship with streamflow, water balance of snow/ice-dominated, mountain regions.

Organisation

Moderators: Francesco Avanzi (CIMA), Rafael Pimentel (UCO), Guillaume Thirel (INRAE), Doris Düthmann (IGB Berlin), Abror Gafurov (GFZ), Juraj Parajka (TU Wien)

Scheduling: Tue, 05 May, 08:30–12:30 ([Schedule](#))

Block of 6-8 displays, 5 min break/quizz, block of 6-8 displays, and so on

Authors are invited to post 2 sentences about their work and to clearly identify themselves (name visible, author status indicated, display number:
e.g. *Jane Doe (author) display1234*)

Authors are invited to post 2 sentences regarding the highlights of their work at the beginning of their block