



International Network for Alpine Research Catchment Hydrology (INARCH)

2025 Annual INARCH Workshop

Innsbruck University Center in Obergurgl, Austria

September 12–14, 2025

Local Hosts: Professors Rainer Prinz, Lindsey Nicolson, and Ulrich Strasser from the University of Innsbruck

Workshop Agenda

Thursday, September 11		Arrival in Innsbruck
Participants arrive in Innsbruck, staying at their own individually booked accommodation.		
7:00 PM	Dinner and drinks at the Stiftskeller, Stiftgasse 1, 6020 Innsbruck	
Friday, September 12		Travel to Obergurgl and workshop introduction
2:00 PM	Meet at Busparkplatz am Hofgarten (Bus Parking Hofgarten), Kaiserjägerstraße, 6020 Innsbruck, Austria. https://maps.app.goo.gl/JxcQKBHtv7DZjEhf7	
5–6 PM	Arrival at Obergurgl	
7:00 PM	Dinner	
7:45 PM	John Pomeroy Ignacio López Moreno Rainer Prinz Ulrich Strasser	INARCH 2025 workshop introduction – perspectives of INARCH (accomplishments, current status and activities, future directions); Overview of alpine hydrology and research facilities at Innsbruck University and the Rofental Catchment
Saturday, September 13		Field tour of the Rofental Catchment and surrounding region
7:30–8:30 AM	Breakfast	
9:00 AM – 5:00 PM	Participants will tour the Rofental Catchment; this will be weather-dependent and different options will be explored. There will be a bag lunch.	
7:00 PM	Dinner	
Sunday, September 14		INARCH science updates and discussion
7:30–8:30 AM	Breakfast	
8:30–8:45 AM	Chris DeBeer	Overview of the Common Observing Period Experiment (COPE): status, activities, science questions
8:45–9:00 AM	John Pomeroy	Modelling the Impact of Black Carbon on a Nepalese Glacier Catchment using CRHM and Bias-corrected Reanalysis Data
9:00–9:15 AM	Ethan Gutmann	Atmospheric AI Emulators for Downscaling to Catchment and Convection Permitting Scales
9:15–9:30 AM	Thomas Nagler	Extension of the ESA AlpSnow project to INARCH sites

9:30–9:45 AM	Ekaterina Rets	Contrasting energy-balanced based snowmelt runoff estimates with isotopic hydrograph separation for a small arctic mountainous catchment
9:45–10:00 AM	Marc Pons	Contact Leaf area as forest structure indicator to assess the interception and distribution of snow in subalpine mountain environments
10:00–10:30 AM	<u>Coffee break and poster viewing</u> Posters:	
	Hamish Pritchard and Federico Covi	Lakes as snowfall sensors: a breakthrough for constraining SWE in satellite and model products
	Carlo Marin	Characterizing Liquid Water Content, Permittivity, Snow Roughness, and Snow Cover Fraction for Improved Understanding of Satellite Observations of Snow at Weissfluejoch and Val Senales
	Achille Jouberton	Snow and glacier at risk: Insights from the Kyzylsu research catchment, Tajikistan
	Jesús Revuelto	High spatial resolution CHM simulations in the Pyrenees: first evaluations with UAV data
	Elizabeth Ramirez	Representation of snow dynamics in a forested area of the Southern Andes using the Factorial Snow Model (FSM)
	Paloma Palma	Estimation of Snow Water Equivalent in the Maipo river basin in central Chile
10:30–10:45 AM	Tim Link	Exploring the Sensitivity of Watershed Hydrology to Land Cover and Climate Change: Results from an Experimental Watershed Spanning the Rain-Snow Transition Zone
10:45–11:00 AM	James McPhee	A modelling study of historical snow droughts in the extratropical Andes Cordillera and their hydrological implications
11:00–11:15 AM	James McNamara	Modelling snow to flow relationship in the Reynolds Creek Experimental Watershed using the Cold Regions Hydrological Model: A work in progress
11:15–11:30 AM	Ignacio López Moreno	Elevation-Dependent Effects of Climate Change on Snowpack in Spanish Mountains
11:30–12:00 PM	Discussion on future INARCH directions and plans (wrap-up of COPE science activities; papers for special issues of <i>ESSD</i> and <i>Hydrological Processes</i> ; potential renewal as a GEWEX cross-cutting project) Closing statements	
12:00 PM	Bag lunch and depart by bus for Innsbruck	