



# #AGM28 – Alpine Glaciology Meeting 2025

Innsbruck/Austria

Feb 27 – 28, 2025

Welcome to #AGM28, the Alpine Glaciology Meeting 2025 here in Innsbruck, Austria. Over the next two days, we will experience nearly 80 presentations (including posters) showcasing the diverse facets of glaciology, and we are delighted that, once again, many early career scientists have stepped forward to present. We are gathered in the newest building of the University of Innsbruck, the Agnes Heller Haus, which also serves as the venue for the poster exhibition and our Get2Gether. We are excited for another excellent and vibrant platform for exchange, that #AGM has become over the years and wish you a wonderful and enjoyable stay at #AGM28 in Innsbruck.

## SCHEDULE OVERVIEW

Thursday, Feb 27	Friday, Feb 28
Registration 8:00 – 9:00	
Opening by Scientific Committee 09:00 – 09:15	<b>Session V: Processes</b> 09:00 – 10:15
<b>Session I: Global Glacier Changes</b> 09:15 – 10:15	
Coffee Break 10:15 – 10:45	Coffee Break 10:15 – 10:45
<b>Session II: Regional Changes in Snow or Ice</b> 10:45 – 12:00	<b>Session VI: Subsurface Processes</b> 10:45 – 11:45
Lunch 12:00 – 13:00	Lunch 11:45 – 12:45
<b>Poster Session 1</b> 13:00 – 14:30	<b>Poster Session 2</b> 12:45 – 14:15
<b>Session III: Monitoring</b> 14:30 – 15:45	<b>Session VII: Modelling</b> 14:15 – 15:30
Coffee Break 15:45 – 16:15	Coffee Break 15:30 – 16:00
<b>Session IV: Remote Sensing</b> 16:15 – 17:30	<b>Session VIII: Modelling, Paleoclim. &amp; Ecology</b> 16:00 – 17:00

## PRESENTER LIST

Thursday, Feb 27

#	Scheduled	Presenter	Title
0	09:00 – 09:15	Organizing Committee	Opening, Welcoming Remarks, Logistics & Details
1	09:15 – 09:30	Magnus Mar Magnusson	Greetings from the IGS
2	09:30 – 09:45	Michael Zemp	Into the International Year of Glaciers' Preservation 2025 – Perspectives from the World Glacier Monitoring Services
3	09:45 – 10:00	Samuel Cook	Global ice thickness inversions using deep learning
4	10:00 – 10:15	Lilian Schuster	Impact of global warming on glaciers until 2300: Figures for the State of the Cryosphere reports 2023 and 2024
5	10:45 – 11:00	Roberto Sergio Azzoni	Belvedere, 1951–2023: A Glacier Odyssey
6	11:00 – 11:15	Andrea Securo	The Glaciers of the Dolomites: last 40 years of melting
7	11:15 – 11:30	Tiziana Lazzarina Zendrini	A century of late-summer snowline fluctuations in the Ortles-Cevedale Group: a reconstruction from historical photos
8	11:30 – 11:45	Cecilia Delia Almagioni	Snow cover variability and trends over Karakoram, Western Himalaya and Kunlun Mountains: Insights from MODIS (2001–2024) and Reanalysis Data
9	11:45 – 12:00	Valerie Reppert	Climate Signals from Neumayer, Coastal Dronning Maud Land, Antarctica: A 33-Year Statistical Analysis of Snow Accumulation in a Stake Farm
10	14:30 – 14:45	Matthias Huss	Swiss glacier monitoring: New approaches from the local to the regional scale
11	14:45 – 15:00	Joel Harper	In Situ Measurement of Meltwater Infiltration Mechanisms in Snow and Firn
12	15:00 – 15:15	Anna Siebenbrunner	Glacier Monitoring on the Fly: Quantifying Ice Volume and Analyzing Subglacial Topography with UAV-borne GPR
13	15:15 – 15:30	Fanny Brun	Glacier mass balance monitoring, research questions and capacity building in Nepal
14	15:30 – 15:45	Stefania Federici	Advancing Microplastic Research: European Networking Opportunities
15	16:15 – 16:30	Amaury Dehecq	Impact of DEMs spatial resolution on glacier geodetic mass balance
16	16:30 – 16:45	Luc Beraud	An improved processing of ASTER elevation time series in High Mountain Asia to study glacier surge dynamics
17	16:45 – 17:00	Jonathan Fipper	Drivers and impacts of the vertical structure of the troposphere at Villum Research Station, Northeast Greenland
18	17:00 – 17:15	Dagmar Brombierstäudl	Quantifying aufeis volumes in Central Ladakh, India: Insights from satellite and terrestrial imagery
19	17:15 – 17:30	Moritz Koch	The state and fate of Glaciar Perito Moreno, Patagonia

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Friday, Feb 28

#	Scheduled	Presenter	Title
1	09:00 – 09:15	Lindsey Nicholson	The second Hintereisferner Experiment HEFEX II
2	09:15 – 09:30	Leo Schlagbauer	Foehn winds on McCall Glacier, Alaska: Identification and impacts
3	09:30 – 09:45	Robert Peal	The influence of westerly moisture transport events on Kilimanjaro’s glaciers
4	09:45 – 10:00	Marie Schröder	Turbulent Fluxes in a Land Terminating Vertical Ice Cliff
5	10:00 – 10:15	Christoph Mayer	Snow cover, glacier size and melt; runoff variability from a medium size alpine glacier
6	10:45 – 11:00	Christophe Ogier	Water pockets in Alpine glaciers: what are they, why do they form, and how do they burst?
7	11:00 – 11:15	Leonardo Stucchi	Evaluation of non-conductive heat transfer in supraglacial debris of Belvedere Glacier, Italy.
8	11:15 – 11:30	Ian Arburua Delaney	Variations in subglacial sediment transport capacity with respect to water discharge
9	11:30 – 11:45	Guillaume Juvet	Revisiting Mercanton’s Visionary Experiment on the Rhône Glacier with a Numerical Model
10	14:15 – 14:30	Christoph Posch	Comparative analysis of mass balance estimates at Greenland’s most studied peripheral glacier
11	14:30 – 14:45	Franziska Temme	The climatic imprint on recent glacier evolution in the Cordillera Darwin Icefield, Tierra del Fuego
12	14:45 – 15:00	Audrey Goutard	Impact of surface liquid water retention on glacier mass balance: application to Mera Glacier (Nepal) using SURFEX-ISBA-Crocus
13	15:00 – 15:15	Marin Kneib	Combined field measurements for quantifying the dynamics of an on-glacier avalanche deposit and its underlying processes
14	15:15 – 15:30	Oskar Hermann	Translating Observation Uncertainty into Model Calibration using the Ensemble Kalman Filter
15	16:00 – 16:15	Martin Rückamp	Future retreat of Great Aletsch Glacier and Hintereisferner – an East-West comparison
16	16:15 – 16:30	Patrick Schmitt	Deglaciation in western Austria: Perspectives from observations and modeling
17	16:30 – 16:45	Azzurra Spagnesi	Weißseespitze glacier (Eastern Rhaetian Alps): a 6 kyr paleoclimatic and paleoenvironmental reconstruction
18	16:45 – 17:00	Gilda Varliero	Viral Dynamics in Glacier Microbiomes: Insights from the Rhone Glacier

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Thursday, Feb 27 13:00 – 14:30

#	Presenter	Title
A1	Blanka Barbagallo	HLSL30 vs. Landsat 8: A Cross-Comparison of Albedo Products in the Karakoram Range
A2	Andreas Henz	Integration of high-resolution glacier modelling with geomorphological data for the reconstruction of past glacier fluctuations in the European Alps
A3	Patrick Schmitt	Goodbye Glaciers!? – A hiking signpost project to raise glacier loss awareness
A4	Lea Hartl	Decadal overview of mass balance at five Austrian glaciers and 2023/24 results
A5	Michele Di Biase	First inventory of the paraglacial activity in the Venosta Valley (Italy) in relation to the recent glacial recession
A6	Giorgia Dassie	On the release of microplastics from UHMWPE ski bases to snow. A spectroscopic analysis.
A7	Davide Fugazza	What influences Algal blooms on the Greenland Ice Sheet? Insights from field work and satellite data at Qaanaaq glacier.
A8	Anees Ahmad	Fusion of Sentinel-1 interferometric coherence and Sentinel-2 MSI for debris-covered glacier boundary delineation
A9	Celine Walker	Global catalogue of future glacier lakes using novel bed topography
A10	Alessia Spezza	Intercomparison of gauge based, reanalysis and satellite gridded precipitation datasets in High Mountain Asia: insights from observations and runoff data.
A11	Marcus Gastaldello	Spatio-temporal Degradation of Alpine Cold Firn in the 21st Century
A12	Jan Niklas Richter	A Remote-Only Approach to SEB Model Calibration: First Insights from Hintereisferner Glacier
A13	Leonora Seiler	Reconstruction of rockfall activity from supraglacial deposits on Witenwasserengletscher, Switzerland and its relation to climatic factors
A14	João Gomes Ilha	Unveiling Amazon proxies in high-mountain environments, the Quelccaya Ice Core, Peru
A15	Thorsten Seehaus	Gaussian Process Regression for ICESat-2 Point-Cloud Interpolation
A16	Akash Patil	Investigating firn density and accumulation history in the Aletsch glacier’s accumulation area using Ground Penetrating Radar
A17	Giovanni Kappenberger	From a glacier to a lake: the icebergs of the Geren Pass.
A18	Vijaya Kumar Thota	Historical glacier elevation changes in southwest Antarctic Peninsula
A19	Sonia Morgese	Sensitivity analysis of energy balance equation on a debris covered glacier. The case of Belvedere Glacier, Italy.
A20	Bernhard Hynek	Accumulation by avalanches as a significant contributor to the mass balance of a peripheral glacier of Greenland

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Friday, Feb 28 12:45 – 14:15

#	Presenter	Title
B1	Maria Heinrich	Multi-sensor satellite observations of snow area extent in mountain regions
B2	Michael Zemp	The second Glacier Mass Balance Intercomparison Exercise 2025–26
B3	Martina Lodigiani	Remote Sensing Applications for Monitoring Periglacial Environments: Insights from the “Agile Arvier” Project
B4	Mamta K C	Comparing neural operator based surrogate models on glacier dynamics prediction.
B5	Theresa Dobler	Detailed velocity map and long-term glacier surface velocities of the slow-flowing Vernagtferner in the Austrian Alps
B6	Diego Pacheco Ferrada	Glacier mapping using Deep Neural Networks in the Tropical Andes
B7	Annelies Voordendag	Seasonal variations in the three-dimensional velocities of the ice lollipop at Hintereisferner (Austria)
B8	Francesco Ioli	Potentials and challenges of free SPOT 5 stereo imagery archive to derive glacier elevation changes in the Alpine region
B9	José Manuel Muñoz Hermosilla	Initializing a glacier model for simulations of debris transport: A case study of the Oberaletsch Glacier
B10	Daniel Farinotti	Traces of an englacial reservoir? First results from a helicopter-borne GPR survey at Glacier de la Bonne Pierre, France
B11	Paolo Perret	Integrating radar and multi-sensor approaches for debris-covered glacier studies: insights from the Forca glacier (Italy)
B12	Florian Hardmeier	A novel particle tracking approach to model debris-covered glaciers in the Instructed Glacier Model (IGM)
B13	Evan Miles	Kon Chukurbashi: prospective for a high elevation ice core in the Pamir mountains
B14	Jorge Andres Berkhoff Leal	Mapping glacier ice thickness in Chile
B15	Gabriele Schwaizer	Changing ablation patterns on glacier in the Alps during the melting seasons 2015 – 2023 observed by means of Sentinel-2 data
B16	Andrea Scolamiero	SAR Wet Snow in High Mountains
B17	Anne Hartig	Comparison of glacier surface classes in the Ötztal Alps from the openAMUNDSEN model and from remote sensing data
B18	Alexander Raphael Groos	A high-resolution debris thickness map for the Kanderfirn in the Swiss Alps derived from UAV-based infrared thermography
B19	Jules Bredon	Glacial response to modern climate change through a transect of several sediment cores, the case of Qalerallit Imaa fjord, southwest GrIS
B20	Astrid Lambrecht	Combining glaciological field surveys, REMote sensing and regional Climate modelling to Analyse the variability of accumulation in the Pamir mountains (RECAP)
B21	Nadine Salzmann	Initiating permafrost research in Bhutan: strategy and first results from the CRYO-SPIRIT project