

# 16th Alpine Glaciology Meeting, ETH Zürich, Switzerland

## Poster Session Program

February 2, 17:10 - 19:00

1	Kay Helfricht	Evaluation of airborne laser scan measurements of winter snow accumulation at glacier surface	a
2	Charles Fierz	Snow-atmosphere interactions and the formation of weak snow layers	a, g, j
3	Stefan Pohl et al.	Observing the Spatial and Temporal Evolution of Mountain Snow Covers Using a Network of Multiple Standalone Sensors and Time Lapse Cameras	a
4	Philipp Rastner	2012 - the first complete glacier inventory for entire Greenland.	b
5	Sabine Baumann	Estimating glacier mass changes by GRACE satellite gravimetry in the Pamir and Tien-Shan mountains	b
6	Martin Stocker-Waldhuber	Five years of mass balance on Mullwitzkees (Hohe Tauern) and Hallstätter Gletscher (Dachstein), Austria	b
7	Andrea Fischer et al.	On the accuracy of direct measurements of mass balance	b
8	Inge Juszak	A comparison of parameterisations of incoming longwave radiation over melting glaciers: model robustness and seasonal variability	b
9	Luca Bonardi et al.	Regional mass Balance of Lombardy Alps (Italy) during 2007-2011	b
10	Lene Petersen	Spatial and temporal variability of air temperature on a melting glacier: Atmospheric controls, extrapolation methods and their effect on melt modeling, Juncal Norte Glacier Chile	b
11	Elisabeth Mayr	Modelling runoff, winter mass balance and annual mass balance at Vernagtferner, Austria	b
12	Leo Sold	Methodological approaches to inferring end-of-winter snow distribution on alpine glaciers	b
13	Kathrin Marowsky et al.	Validation of the glacier model SURGES - with the example of Vernagtferner and Northern/Southern Schneeferner	c
14	Harry Zekollari	3D Higher-Order modelling of Vadret da Morteratsch, Switzerland	c, d
15	Antoine Rabatel et al.	Glacier retreat in the French Alps over the last 40 years (first results of the new French Alpine glaciers inventory).	c
16	Jeannette Gabbi	Ice volume distribution in the Mauvoisin region and implications on future glacier evolution and runoff projections	c
17	C. D'Agata et al.	The 1954-2007 area and geometry changes of Ortles Cevedale glaciers (Lombardy, Italy): a contribution to the knowledge of the recent Alpine glacier history	c
18	Mark Simons	Surface Velocity Fields of Temperate Ice Caps from Airborne and Satellite Repeat Pass InSAR	d
19	Alexandra Messerli	Investigations into hydrology, sliding and ice flow at the Svartisen Subglacial Laboratory, Engabreen, Norway.	e
20	Velio Coviello	Rock slope stability analysis in high mountain areas: microseismic activity monitoring at Capanna J. A. Carrel - 3829 m a.s.l. - South-West side of Matterhorn Peak	f, g
21	Martin Scherler	Impact of climate change scenarios on alpine permafrost and sensitivity analysis of influencing factors	f
22	Stefania Bertotto	Geomorphological Field Surveys and Geomatics Methodologies for Assessing Morphodynamic Processes and Related Hazards in Glacial and Periglacial Areas (Western Italian Alps)	g
23	Maxime Harter	Terrestrial photogrammetry - Application to Tacconnaz Ice fall, France	g

24	Elena Motta	Preliminary surveys on the Lys glacial lake - Aosta Valley, Italy	g
25	Bernd Seiser	MUSICALS - (MUltiscale Snow/ICemelt Discharge Simulation into ALpine ReservoirS): First results of a method to estimate ice volume and ice thickness distribution in the Ötztal Alps, Tyrol, Austria	h
26	Silvan Ragettli	Modeling hydrological processes under the present and future climate of a high Andean watershed: which is the appropriate model structure?	h
27	Pavlina Pavlova	Accelerated release of POPs from Alpine glaciers	h
28	Martin Juen	Determination of debris cover surface temperature using infrared thermography	k
29	Simone Schauwecker	Mapping supraglacial debris thickness on mountain glaciers using satellite data: validation of a new, physically-based method	k
30	Birgit Brandlmeier	Investigations on geomorphometric transformations on lateral moraines of the Gepatschferner by means of high-resolution digital elevation models (terrestrial Laserscanning).	k

## Topics

- a processes in the snow cover
- b glacier mass balance processes and observations
- c glacier change related to climate change
- d ice dynamics and glacier flow processes
- e subglacial processes
- f observations and processes in permafrost
- g natural hazards and their mitigation
- h impacts of cryospheric changes
- i theoretical/mathematical advances
- j progress in numerical models
- k processes in glacial and periglacial debris