

Alpine Glaciology Meeting

1./2. March 2007

VAW, ETH Zürich, Switzerland

Thursday, 1 March

- 9:30 - 9:50 **Ludwig N. Braun**, Commission for Glaciology, Bavarian Academy of Sciences, Munich
Water balance of the highly glaciated Vernagt basin, Ötztal Alps, based on 32 years of measurements
- 9:50 - 10:10 **Matthias Huss**, VAW, ETH Zürich, Switzerland
Determination of seasonal mass balance of four Alpine glaciers since 1865
- 10:10 - 10:40 **Coffee Break**
- 10:40 - 11:00 **Fabian Walter**, VAW, ETH Zürich, Switzerland
Seismic activity during Gornersee jökulhlaups of summers 2004 and 2006
- 11:00 - 11:20 **Pierre-François Roux**, Laboratoire de Géophysique Interne et Tectonophysique Le Bourget-du-lac, France
Seismic evidence for stick-slip processes in an Alpine glacier
- 11:20 - 11:40 **Mauro Werder**, VAW, ETH Zürich, Switzerland
Tracer experiments during the superficial drainage of Gornersee
- 11:40 - 12:00 **Olaf Eisen**, Alfred-Wegener-Institut, Bremerhaven
Can we detect fast fabric changes in glaciers and ice sheets remotely?
- 12:00 - 14:00 **Lunch Break**
- 14:00 - 14:20 **Jean-Pierre Dedieu**, Laboratoire EDYTEM, Université de Savoie, le Bourget du Lac, France
Snow cover modelling under Climate Change conditions in North Calcareous Alps (Austria)
- 14:20 - 14:40 **Alexandra Mittermeier**, Meteorologisches Institut, Universität München, Germany
Parameterization of snow albedo - an empirical analysis based on records from different environments
- 14:40 - 15:10 **Poster Presentation**
- 15:10 - 16:00 **Poster session with Coffee**
- 16:00 - 16:20 **Gernot Koboltschnig**, Institut fuer Wasserwirtschaft, Hydrologie und Konstruktiven Wasserbau, Universitaet fuer Bodenkultur, Wien, Austria
Missing snow: calibration and validation of a water balance model in a glacierized high alpine basin
- 16:20 - 16:40 **Frank Paul**, Department of Geography University of Zürich, Switzerland
A new glacier inventory for the Svartisen area (Norway) from Landsat ETM+: Methodological challenges and first results
- 16:40 - 17:00 **Michael Zemp**, Department of Geography Universität Zürich, Switzerland
World Glacier Monitoring Service - operations, current call-for-data and International Polar Year activities
- 17:00 - **Poster session**
- 18:30 - 21:00 **Apero and Banquet** with the nicest view of town

Friday, 2 March

- 9:00 - 9:20 **Carlo D'Agata**, University of Milan, Italy
Recent evolution of the largest debris covered glacier of the Italian Alps: Miage Glacier (Mont Blanc Massif, Italy)
- 9:20 - 9:40 **Claudia Mihalcea**, University of Milan, Italy
Spatial distribution of surface temperatures, from ground-based and ASTER derived measurements on debris covered glaciers. Study case of Miage Glacier, Mont Blanc Massif, Italy
- 9:40 - 10:00 **Ben Brock**, Geography, School of Social Sciences University of DundeeScotland, U.K.
The surface energy balance of debris-covered Miage Glacier, Mont Blanc Massif, Italy
- 10:00 - 10:15 **Announcements**
- 10:15 - 10:40 **Coffee Break**
- 10:40 - 11:00 **Jeannette Nötzli**, Department of Geography University of Zürich, Switzerland
3D modelling of transient permafrost temperatures below steep alpine topography
- 11:00 - 11:20 **Ludovic Ravanel**, Savoie University (EDYTEM), Chambéry, France
Recent slope instabilities in steep alpine rockwalls affected by permafrost: a case study in the Mont Blanc massif (the Drus)
- 11:20 - 11:40 **Christian Vincent**, LGGE - Grenoble, France
Hazards relative to glacial lake of Rochemelon (French Alps)
- 11:40 - 12:00 **Martin Funk**, VAW, ETH Zürich, Switzerland
Consequences of the rapid changes on Unterer Grindelwaldgletscher
- 12:00 - 14:00 **Lunch Break**
- 14:00 - 14:20 **Katrin Röhl**, University of Otago, Dunedin, New Zealand (now in Kiel, Germany)
Recent terminus development at debris-covered glaciers in the Southern Alps of New Zealand and implications for future behaviour
- 14:20 - 14:40 **Martina Schäfer**, LGGE - Grenoble, France
Mountain glacier flow modelling: a comparison of different models from Shallow Ice Approximation to the Full-Stokes solution
- 14:40 - 15:00 **Jerome Faillettaz**, VAW, ETH Zürich, Switzerland
Breaking off of large ice masses: Logperiodic oscillations, icequakes and model.
- 15:00 - 15:30 **Coffee Break**
- 15:30 - 15:50 **Roger Rüegg, Martin Lüthi**, VAW, ETH Zürich, Switzerland
Structural glaciology of Gornergletscher
- 15:50 - 16:10 **Rainer Prinz**, Institut für Geographie, Universität Innsbruck, Austria
A Comparison of Climate Information as derived from Mean Specific Mass Balance and Ablation Stake Records
- 16:10 - 16:20 **Conclusion**

Posters

Manuela Pelfini, "Ardito Desio" Earth Sciences Department, University of Milan, Italy
Kinematic waves and supraglacial tree responses on Miage Glacier (Western Italian Alps)

Christine Kroisleitner, Central Institute for Meteorology and Geophysics Wien, Austria
Snow chemistry studies of a high alpine snowcover on the examples Wurtenkees and Goldbergkees (Hohe Tauern, Austria)

Alexandre Loye, VAW, ETH Zürich, Switzerland
Evolution of the drainage system during a jökulhlaup as revealed by dye tracer experiments on the Gorner-gletscher.

Ralph Böhlert, Geographisches Institut Universität Zürich, Zürich, Switzerland
Exploring landscape dynamics in the Eastern Swiss Alps (Albula region, Grisons) during the Lateglacial and early Holocene

Andreas Hasler, Glaciology and Geomorphodynamics Group Department of Geography University of Zürich, Switzerland
Investigating steep Bedrock Permafrost with Wireless Sensor Networks

Johanna Nemeč, Institut für Meteorologie, Universität Wien, Austria
Reconstruction of the surface mass balance of Morteratschgletscher since the Little Ice Age

Anna Riccardi, University of Milan, Italy
The recent evolution of Mount S. Matteo avalanching glacier (Ortles-Cevedale Group, Italy)

Reinhard Böhm, Central Institute for Meteorology and Geodynamics (ZAMG), Vienna, Austria
HISTALP - 250 years of instrumental climate in the alpine realm - status and first results

Astrid Lambrecht, Institut für Meteorologie und Geophysik Universität Innsbruck, Austria
Ablation conditions across the Karakoram Range, a comparison

Michele Citterio, Guglielmina Diolaiuti, Claudio Smiraglia Gianpietro Verza and Eraldo Meraldi,
First results from the automatic weather station (AWS) on the ablation tongue of Forni glacier (Upper Valtellina, Italy)

Christoph Mayer, Wilfried Hagg, Astrid Lambrecht, Achim Helm, Bavarian Academy of Sciences and Humanities, Munich, Germany
Post-drainage ice dam response at Merzbacher Lake, Inylchek glacier, Kyrgyzstan

Andy Aschwanden, Heinz Blatter, Institute for Atmospheric and Climate Science, ETH Zürich
Modeling polythermal glaciers: regularization with a brine pocket scheme

Marco Carenzo, Institute of Environmental Engineering, ETH Zurich
A study of the transferability and robustness of an enhanced temperature-index glacier melt model

M. Vagliasindi, "Ardito Desio" Earth Sciences Department, University of Milan, Italy
The new Glacier Inventory of Aosta Valley Region (Italy)

Mauro Werder, VAW, ETH Zürich, Switzerland
Gorner jökulhlaups: Hydraulic model explaining temporary englacial storage of water and flood delay