
Peer-Reviewed Publications (ISI)

- 2014 Mitterer, C., Techel, F., Fierz, C. and Schweizer, J., 2014. A mass and energy balance based index to forecast wet-snow avalanche activity. *Cold Regions Science and Technology*, submitted.
- Heilig, A., Marshall, H.-P., Mitterer, C., Schmid, L., Schweizer, J. and Eisen, O., 2014. Seasonal and diurnal cycles of liquid water in snow. in prep.
- Okorn, R., Brunnhofer, G., Platzer, T., Heilig, A., Schmid, L., Mitterer, C., Schweizer, J. and Eisen, O., 2014. Upward-looking L-band FMCW radar for snow cover monitoring. *Cold Regions Science and Technology*, 103: 31-40.
- Schmid, L., Heilig, A., Mitterer, C., Schweizer, J., Maurer, H., Okorn, R. and Eisen, O., 2014. Continuous snowpack monitoring using upward-looking ground-penetrating radar technology. *Journal of Glaciology*, 60(221): 509-525.
- Wever, N., Fierz, C., Mitterer, C., Hirashima, H. and Lehning, M., 2014. Solving Richards Equation for snow improves snowpack meltwater runoff estimations in detailed multi-layer snowpack model. *The Cryosphere*, 8: 257-274.
- 2013 Mitterer, C. and Schweizer, J., 2013. Analysis of the snow-atmosphere energy balance during wet-snow instabilities and implications for avalanche prediction. *The Cryosphere*, 7: 205-216.
- 2011 Mitterer, C., Hirashima, H. and Schweizer, J., 2011. Wet-snow instabilities: Comparison of measured and modelled liquid water content and snow stratigraphy. *Annals of Glaciology*, 52(58): 201-208.
- Mitterer, C., Heilig, A., Schweizer, J. and Eisen, O., 2011. Upward-looking ground-penetrating radar for measuring wet-snow properties. *Cold Regions Science and Technology*, 69(2-3): 129-138.
- 2009 Schweizer, J., Mitterer, C. and Stoffel, L., 2009. On forecasting large and infrequent snow avalanches. *Cold Regions Science and Technology*, 59(2-3): 234-241.

Non-Reviewed Publications

- 2013 Wever, N., Fierz, C., Mitterer, C., Hirashima, H. and Lehning, M., 2013. Solving Richards Equation for snow improves snowpack meltwater runoff estimations. *Cryosphere Discussion* 7: 2373-2412.
- 2012 Mitterer, C. and Schweizer, J., 2012. Analysis of the snow-atmosphere energy balance during wet-snow instabilities and implications for avalanche prediction. *The Cryosphere Discussion*, 6: 2715-2749.

Conference Proceedings and Abstracts

- 2013 Mitterer, C., Wever, N. and Schweizer, J., 2013. A hydro-mechanical model to estimate wet-snow instability. *Geophysical Research Abstracts* Vol. 15, EGU2013-14048.
- Mitterer, C., Techel, F., Fierz, C. and Schweizer, J., 2013. An operational supporting tool for assessing wet-snow avalanche danger. In: F. Naaïm-Bouvet, Y. Durand and R. Lambert (Editors), *Proceedings ISSW 2013. International Snow*

- Science Workshop, Grenoble, France, 7-11 October 2013. ANENA, IRSTEA, Météo-France, Grenoble, France, pp. 334-338.
- Dreier, L., Mitterer, C., Feick, S. and Harvey, S., 2013. The influence of weather on glide-snow avalanches, International Snow Science Workshop ISSW, Grenoble, pp. 247-252.
- 2012 Mitterer, C. and Schweizer, J., 2012. Towards a better understanding of glide-snow avalanches, International Snow Science Workshop ISSW 2012, Anchorage AK, U.S.A., 16-21 September 2012, pp 610-616.
- Mitterer, C. and Schweizer, J., 2012. Analyzing the Atmosphere-Snow Energy Balance for Wet-Snow Avalanche Prediction, International Snow Science Workshop ISSW 2012, Anchorage AK, U.S.A., 16-21 September 2012, pp. 77-83.
- Feick, S., Mitterer, C., Dreier, L., Harvey, S. and Schweizer, J., 2012. Automated detection and mapping of glide-snow events using satellite based optical remote sensing and terrestrial photography, International Snow Science Workshop ISSW 2012, Anchorage AK, U.S.A., 16-21 September 2012, pp. 603-609.
- Schmid, L., Mitterer, C., Heilig, A., Schweizer, J. and Eisen, O., 2012. Tracking wetting front advance from upward-looking ground-penetrating radar, International Snow Science Workshop ISSW 2012, Anchorage AK, U.S.A., 16-21 September 2012, pp. 599-601.
- Schweizer, J., Alig, C. and Mitterer, C., 2012. On indicator path avalanches for local avalanche forecasting, International Snow Science Workshop ISSW 2012, Anchorage AK, U.S.A., 16-21 September 2012, pp. 51-54.
- 2011 Mitterer, C., Heilig, A., Schmid, L., Schweizer, J. and Eisen, O., 2011. Measuring wet-snow properties with ground-penetrating radar technology. Geophysical Research Abstracts, 13: EGU2011-13916
- Alig, C., Mitterer, C. and Schweizer, J., 2011. On the reliability of indicator path avalanches for local avalanche forecasting, Abstract Volume, 9th Swiss Geoscience Meeting, Zurich, Switzerland, 11-13 November 2011, pp. 265.
- Feick, S., Brunner, S., Mitterer, C. and Schweizer, J., 2011. Automated detection and analysis of gliding snow. Geophysical Research Abstracts, 13: EGU2011-13923.
- Reiweger, I., Mitterer, C. and Schweizer, J., 2011. 2-D modelling of water flow in snow. Geophysical Research Abstracts, 13: EGU2011-13920
- Zwimpfer, F., Mitterer, C., Reiweger, I., Schweizer, J. and Dual, J., 2011. Failure of wet snow, Abstract Volume, 9th Swiss Geoscience Meeting, Zurich, Switzerland, 11-13 November 2011, pp. 263-264.
- 2010 Heilig, A., Mitterer, C., Hoinkes, S., Schweizer, J. and Eisen, O., 2010. Continuous monitoring of the seasonal snowpack evolution utilizing upward-looking GPR technology, International Snow Science Workshop ISSW, Lake Tahoe CA, U.S.A., 17-22 October 2010, pp. 13-17.
- 2009 Mitterer, C., Mott, R. and Schweizer, J., 2009. Observations and analysis of two wet-snow avalanche cycles. In: J. Schweizer and A. van Herwijnen (Editors), International Snow Science Workshop ISSW, Davos, Switzerland, 27 September - 2 October 2009. Swiss Federal Institute for Forest, Snow and Landscape Research WSL, pp. 262-266.
- Mitterer, C. and Schweizer, J., 2009. Snow cover stability patterns in the Eastern European Alps. Geophysical Research Abstracts, 11: 12806.

Schirmer, M., Mitterer, C. and Schweizer, J., 2009. On sample size and different interpretations of snow stability datasets. Geophysical Research Abstracts, 11: 13413.

- 2008 Schweizer, J., Mitterer, C. and Stoffel, L., 2008. Determining the critical new snow depth for a destructive avalanche by considering the return period. In: C. Campbell, S. Conger and P. Haegeli (Editors), Proceedings ISSW 2008, International Snow Science Workshop, Whistler, Canada, 21-27 September 2008, pp. 292-298.

Popular Articles

- 2014 Mitterer, C. and Schweizer, J., 2014. Nassschneelawinen. bergundsteigen - Zeitschrift für Risikomanagement im Bergsport. Oesterreichischer Alpenverein, Innsbruck, Austria, 23(1): 52-57.
- 2013 Mitterer, C. and Schweizer, J., 2013. Gleitschneelawinen. bergundsteigen - Zeitschrift für Risikomanagement im Bergsport. Oesterreichischer Alpenverein, Innsbruck, Austria, 22(4): 42-49.
- Mitterer, C. and Schweizer, J., 2013: Glide-snow avalanches revisited. Avalanche Journal 102: 68-71.
- Winkler, K. and Mitterer, C., 2013: Achtung vor den "Fischmäulern". Alpen 89, 2: 54