

## Peer-reviewed publications in 2016

- Becker, P., Seguinot, J., Jouvét, G., and Funk, M. (2016). Last Glacial Maximum precipitation pattern in the Alps inferred from glacier modelling. *Geographica Helvetica*, 71(3):173–187.
- Dalban, P., Rössli, C., and Walter, F. (2016). Seasonal variations of glacier seismicity at the tongue of Rhonegletscher (Switzerland) with focus on basal icequakes. *Journal of Glaciology*, 231(231):18–30.
- Dow, C. F., Werder, M. A., Nowicki, S., and Walker, R. T. (2016). Modeling Antarctic subglacial lake filling and drainage cycles. *The Cryosphere*, 10(4):1381–1393.
- Drolon, V., Maisongrande, P., Berthier, E., Swinnen, E., and Huss, M. (2016). Monitoring of seasonal glacier mass balance over the European Alps using low resolution optical images. *Journal of Glaciology*, 62(235):912–927.
- Faillettaz, J., Funk, M., and Vagliasindi, M. (2016). Time forecast of a break-off event from a hanging glacier. *The Cryosphere*, 10(3):1191–1200.
- Farinotti, D., Pistocchi, A., and Huss, M. (2016). From dwindling ice to headwater lakes: could dams replace glaciers in the European Alps? *Environmental Research Letters*, 11(5):054022.
- Fischer, M., Huss, M., Kummert, M., and Hoelzle, M. (2016). Application and validation of long-range terrestrial laser scanning to monitor the mass balance of very small glaciers in the Swiss Alps. *The Cryosphere*, 10(3):1279–1295.
- Funk, M., Hählen, N., Keusen, H., Kienholz, H., and Tobler, D. (2016). Das Naturgefahrenpotential der beiden Grindelwaldgletscher. In Zumbühl, H., Nussbaumer, S., Holzhauser, H., and Wolf, R., editors, *Die Grindelwaldgletscher - Kunst und Wissenschaft*, chapter 7, pages 201–214. Haupt.
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- Hoffman, M. J., Andrews, L. C., Price, S. A., Catania, G. A., Neumann, T. A., Lüthi, M. P., Gulley, J., Ryser, C., Hawley, R. L., and Morriss, B. (2016). Greenland subglacial drainage evolution regulated by weakly connected regions of the bed. *Nature Communications*, 7(13903):1–11.
- Huss, M. and Fischer, M. (2016). Sensitivity of very small glaciers in the Swiss Alps to future climate change. *Frontiers in Earth Science*, 4(34).
- Jouvét, G. (2016). Mechanical error estimators for shallow ice flow models. *Journal of Fluid Mechanics*, 807:40–61.
- Kronenberg, M., Barandun, M., Hoelzle, M., Huss, M., Farinotti, D., Azisov, E., Usabaliev, R., Gafurov, A., Patrakov, D., and Kääh, A. (2016). Mass balance reconstruction for Glacier No. 354, Tien Shan from 2003-2014. *Annals of Glaciology*, 57(71):92–102.
- Meier, L., Jacquemart, M., Blattmann, B., Wyssen, S., Arnold, B., and Funk, M. (2016). Radar based Warning and Alarm Systems for Alpine Mass Movements. In *INTERPRAEVENT*, pages 960–968. Internationales Symposium 2016, Lucerne, Switzerland.

- Nussbaumer, S., Huss, M., Machguth, H., and Steiner, D. (2016). Gletscherentwicklung und Klimawandel. In Zumbühl, H., Nussbaumer, S., Holzhauser, H., and Wolf, R., editors, *Die Grindelwaldgletscher - Kunst und Wissenschaft*, chapter 8, pages 215–234. Haupt.
- Podolskiy, E. A., Sugiyama, S., Funk, M., Walter, F., Genco, R., Tsutaki, S., Minowa, M., and Ripepe, M. (2016). Tide-modulated ice flow variations drive seismicity near the calving front of Bowdoin Glacier, Greenland. *Geophysical Research Letters*, 43:2036–2044. 2016GL067743.
- Podolskiy, E. A. and Walter, F. (2016). Cryo-seismology. *Reviews of Geophysics*, pages n/a–n/a. 2016RG000526.
- Preiswerk, L., Walter, F., Anandakrishnan, S., Barfucci, G., Beutel, J., Berkett, P., Canassy, P. D., Funk, M., Limpach, P., Marchetti, E., Meier, L., and Neyer, F. (2016). Monitoring unstable parts in the ice-covered Weissmies northwest face. In *INTERPRAEVENT*, pages 434–443. Internationales Symposium 2016, Lucerne, Switzerland.
- Rastner, P., Joerg, P., Huss, M., and Zemp, M. (2016). Historical analysis and visualization of the retreat of Findelengletscher, Switzerland, 1859–2010. *Global and Planetary Change*, 145:67–77.
- Roeoesli, C., Helmstetter, A., Walter, F., and Kissling, E. (2016a). Meltwater influences on deep stick-slip icequakes near the base of the Greenland Ice Sheet. *Journal of Geophysical Research: Solid Earth*, 121(2):223–240. 2015JF003601.
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- Sold, L., Huss, M., Machguth, H., Joerg, P. C., Leysinger Vieli, G., Linsbauer, A., Salzmann, N., Zemp, M., and Hoelzle, M. (2016). Mass balance re-analysis of Findelengletscher, Switzerland; benefits of extensive snow accumulation measurements. *Frontiers in Earth Science*, 4(18).
- Steinlin, C., Bogdal, C., Pavlova, P., Schwikowski, M., Lüthi, M., Scheringer, M., Schmid, P., and Hungerbühler, K. (2016). Polychlorinated Biphenyls in a Temperate Alpine Glacier: 2. Model Results of Chemical Fate Processes. *Environ. Sci. Technol.*, 50:5572–5579.
- Walter, F., Burtin, A., Mc Ardell, B., Hovius, N., Weder, B., and Turowski, J. M. (2016). Rapid Detection and Location of Debris Flow Initiation at Illgraben, Switzerland. *Natural Hazards and Earth System Sciences Discussions*, 2016:1–26.
- Werder, M. A. (2016). The hydrology of subglacial overdeepenings: a new supercooling threshold formula. *Geophysical Research Letters*, 43:2045–2052. 2015GL067542.