

List of publications

Peer-reviewed publications:

2011

Laute, K., Beylich, A.A. & L. Hansen (in review): Influences of the Little Ice Age glacial advance on hillslope morphometry and development in paraglacial valley systems around the Jostedalsgreen ice field in western Norway. *Geomorphology*.

Beylich, A.A. & K. Laute (in review): Spatial variations of surface water chemistry and chemical denudation in the Erdalen drainage basin, Nordfjord, western Norway. *Geomorphology*.

Beylich, A.A. & K. Laute (in review): Temporal variations of surface water chemistry and chemical denudation in a steep and glacier-fed mountain catchment in western Norway (Erdalen, Nordfjord). *Arctic, Antarctic, and Alpine Research*.

2010

Laute, K., & A.A. Beylich (2010): Characteristics of floodplain deposits within a braided sandur system in upper Erdalen (Nordfjord, western Norway). *Geografiska Annaler, Special Issue, 92 A (2):* 211-223.

Beylich, A.A., Liermann, S., & **K. Laute** (2010): Fluvial transport during thermally and pluvially induced peak runoff events in a glacier-fed mountain catchment in western Norway. *Geografisker Annaler, Special Issue, 92 A (2):* 215-224.

2009

Beylich, A.A., **Laute, K.**, Liermann, S., Hansen, L., Burki, V., Vatne, G., Fredin, O., Gintz, D., & I. Berthling (2009): Subrecent sediment dynamics and sediment budget of the braided sandur system at Sandane, Erdalen (Nordfjord, Western Norway). *Norsk Geografisk Tidsskrift (NGT) / Norwegian Journal of Geography, Special Issue, 63 (2):* 123-131.

Morche, D., **Laute, K.** (2009): Investigating channel response to a dambreak flood event in an Alpine river - Downstream trends in stream power and channel bed particle characteristics. *Arctic, Antarctic and Alpine Research, Special Issue, 41 (2):* 69-78.

Presentations:

Laute, K. & A.A. Beylich (2010): Influences of the Little Ice Age glacier advance on hillslope development in the headwater areas of two tributary valleys of the Nordfjord, Western Norway. *NNV-2010-007, September 2010:* 32-33.

Laute, K. & A.A. Beylich (2010): Geomorphic influences of the Little Ice Age glacial advance on selected hillslope systems in Nordfjord, Western Norway (Erdalen and Bødalen valleys). *Geophysical Research Abstracts*, Vol. **12**, EGU2010-1320, 2010.

Laute, K., Beylich, A.A., Hansen, L. & G. Vatne (2010): Postglacial hillslope development and Holocene to contemporary slope denudation and sediment storage in two paraglacial tributary catchments in Nordfjord, western Norway (Erdalen & Bødalen valleys). *NGF Abstracts and Proceedings of the Geological Society of Norway*, **3**: 59-61.

Laute, K., Beylich, A.A. & L. Hansen (2009): Sub-recent erosion and sedimentation within a paraglacial valley system in western Norway (Erdalen, Nordfjord). *NGF Abstracts and Proceedings, no. 1*: 62-63, Bergen, Norway.

Laute, K., Beylich, A.A., Hansen, L. & K.-H. Schmidt (2008): Investigations on sub-recent sedimentation and erosion rates within a braided sandur system in Erdalen (Nordfjord, western Norway). *NGU Report, 2008.058*: 28, Third I.A.G. / A.I.G. SEDIBUD Workshop, Boulder, U.S.A.

Abstracts / Posters:

Laute, K. & A.A. Beylich (2011): Holocene hillslope development in paraglacial tributary valleys in Nordfjord, western Norway. *Geophysical Research Abstracts* 13, EGU2011-182, 2011.

Laute, K. & A.A. Beylich (2010): Geomorphic (de-) coupling of hillslope and channel systems within headwater catchments in two subarctic tributary valleys, Nordfjord, Western Norway. *Geophysical Research Abstracts*, Vol. **12**, EGU2010-1321, 2010.

Laute, K., Beylich, A.A. & L. Hansen (2011): Late Holocene hillslope dynamics in two paraglacial valley systems, western Norway. *Geophysical Research Abstracts* 13, EGU2011-181, 2011.

Laute, K., Beylich, A.A. & L. Hansen (2009): Sub-recent erosion and sedimentation within a paraglacial tributary catchment of the Nordfjorden valley-fjord system (Erdalen, western Norway). *Geophysical Research Abstracts*, Vol. **11**, EGU2009-1439, 2009.

Laute, K., Beylich, A.A., Hansen, L. & G. Vatne (2010): Postglacial hillslope development in paraglacial tributary catchments (ESF-NFR SedyMONT-Norway Project, SedyMONT, TOPO-EUROPE). *Geophysical Research Abstracts*, Vol. **12**, EGU2010-2734, 2010.

Laute, K., Beylich, A.A., Vatne, G. & L. Hansen (2009): Subrecent erosion and sediment storage quantification within two paraglacial tributary catchments in Nordfjord, western Norway. *7th International Conference on Geomorphology (ANZIAG). Ancient Landscapes – Modern Perspectives. Conference Abstracts. Melbourne, Australia.*

Laute, K., Beylich, A.A., Vatne, G. & L. Hansen (2009): Hillslope processes and their variation over time within two tributary catchments in Nordfjord, western Norway. *NGU Report 2009.050*: 27, Fourth I.A.G. / A.I.G. SEDIBUD Workshop, Kingston, Ontario, Canada.

Laute, K., Decaulne, A. & A.A. Beylich (2010): Using dendrogeomorphology and dendrochronology to assess the activity of different hillslope processes in two subarctic tributary valleys, Nordfjord, Western Norway. *Proceedings of the International Conference "Trees & Dynamics", November 15-19, 2010, Clermont-Ferrand, France*. Abstract Volume: 72.

Beylich, A.A. & K. Laute (Eds) (2010): Detecting Landscape Change. ESF TOPO-EUROPE Workshop and PhD Summer School, August 31 – September 8, 2010, Loen (Nordfjord), Norway. *NGF Abstracts and Proceedings of the Geological Society of Norway*, **3**. 115pp.

Beylich, A.A. & K. Laute (2010): Field excursions. Study Sites Erdalen & Bødalen. ESF TOPO-EUROPE Workshop and PhD Summer School on Detecting Landscape Change, August 31 – September 8, 2010, Loen (Nordfjord), Norway. *NGF Abstracts and Proceedings of the Geological Society of Norway*, **3**: 101-107.

Beylich, A.A., Laute, K. & S. Liermann (2011): Analysis of bedload transport in steep mountain streams: Integrating field measurements with flume experiments. *Geophysical Research Abstracts* 13, EGU2011-3291, 2011.

Beylich, A.A., Laute, K. & S. Liermann (2011): Holocene to contemporary source-to-sink fluxes in a valley-fjord system in western Norway: Erdalen and Bødalen site project (SedyMONT-Norway). *Geophysical Research Abstracts* 13, EGU2011-13777, 2011.

Beylich, A.A., Laute, K. & S. Liermann (2010): Monitoring of geomorphic processes and quantitative analysis of mechanical and chemical denudation rates in glacier-fed valley-fjord systems in the inner Nordfjord, western Norway. *NGF Abstracts and Proceedings of the Geological Society of Norway*, **3**: 21-22.

Beylich, A.A., Laute, K., Liermann, S. & the SedyMONT-Norway Team (2010): Timescales of sediment dynamics, climate and topographic change in mountain landscapes (SedyMONT): Erdalen and Bødalen site project (SedyMONT-Norway): Holocene, subrecent and contemporary source-to-sink fluxes in a valley-fjord system. *6th TOPO-EUROPE Conference, November 4-6, 2010, Hønefoss*. Abstracts.

Beylich, A.A., Liermann, S. & K. Laute (2011): Spatio-temporal variability of chemical and mechanical denudation in glacier-fed mountain catchments in Nordfjord, western Norway. *Geophysical Research Abstracts* 13, EGU2011-1397, 2011.

Beylich, A.A., Liermann, S. & K. Laute (2010): Mechanical and chemical denudation in two glacier-fed mountain catchments in Nordfjord, western Norway (Erdalen and Bødalen). *Geophysical Research Abstracts*, Vol. **12**, EGU2010-1221, 2010.

Beylich, A.A., Liermann, S. & K. Laute (2010): Spatio-temporal variability of mechanical and chemical denudation rates in glacier-fed valley-fjord systems in the inner Nordfjord, western Norway. *NNV-2010-007*, September 2010: 17.

Beylich, A.A., Liermann, S. & K. Laute (2009): Spatio-temporal variability of sediment sources and fluvial transport in two glacier-fed mountain catchments in Nordfjord, western Norway. *NGU Report 2009.050*: 19.

Beylich, A.A., Hansen, L., Liermann, S., Gintz, D., Laute, K., Vatne, G., Fredin, O., Burki, V. & I. Berthling (2008): Sediment dynamics and sub-recent sediment budget of the braided sandur system at Sandane, Erdalen (Nordfjord, western Norway). In: Beylich, A.A., Lamoureux, S. & A. Decaulne (Eds.): Sediment Fluxes and Sediment Budgets in Changing High-Latitude and High-Altitude Cold Environments. Third Workshop of I.A.G./A.I.G. SEDIBUD (Sediment Budgets in Cold Environments), Boulder, U.S.A. Geological Survey of Norway Report 2008.058 p. 21.

Beylich, A.A., Hansen, L., Liermann, S., Gintz, D., Laute, K., Vatne, G., Fredin, O., Burki, V., Berthling, I. & K.-H. Schmidt (2008): Sub-recent development of the braided sandur system at Sandane, sub-Arctic oceanic upper Erdalen (Norway). 33rd International Geological Congress 2008, Oslo, Norway.

Beylich, A.A., Hansen, L., Liermann, S., Gintz, D., Laute, K., Vatne, G., Fredin, O., Burki, V., Berthling, I. & K.-H. Schmidt (2008): Sub-recent sediment dynamics and sediment budget of the braided sandur system at Sandane, Erdalen (Nordfjord, Western Norway). *Geophysical Research Abstracts*. Vol. 10, EGU2008-A-02591, 2008.

Decaulne, A., Eggertsson, O., Arbella, E., Laute, K. & A.A. Beylich (2011): Recent extreme snow-avalanche events tracked through tree-ring analysis – a case study from Western Norway. *Geophysical Research Abstracts*, Vol. 13, EGU2011-1777, 2011.

Decaulne, A., Eggertsson, Ó., Laute, K. & A.A. Beylich (2010): Dendrogeomorphology and dendrochronology revealing recent snow-avalanche activity in Upper Nordfjord, western Norway. *WorldDendro Conference, Rovaniemi, Finland. Abstracts*.

Decaulne, A., Eggertsson, O., Laute, K., Sæmundsson, Th. & A.A. Beylich & H.P. Jonsson (2010): Addressing frequency and magnitude of recent snow avalanches in Northern Iceland and Western Norway by using dendrogeomorphology. *Geophysical Research Abstracts*, Vol. 12, EGU2010-4262, 2010.

Decaulne, A., Eggertsson, O., Sæmundsson, Th., Laute, K., Beylich, A.A., Pop, O., Defive, E. & S. Larrue (2010): The EuroDendro project – Snow-avalanche and debris-flow frequency in European Middle Mountains unravelled by dendrogeomorphological analyses. *Geophysical Research Abstracts*, Vol. 12, EGU2010-4231, 2010.

Decaulne, A., Eggertsson, O., Sæmundsson, Th., Laute, K., Beylich, A.A., Pop, O., defive, E. & S. Larrue (2010): The Euro-Dendro project – Snow avalanche and debris flow frequency in European Middle Mountains unravelled by dendrogeomorphological analyses. *WorldDendro Conference, Rovaniemi, Finland. Abstracts*.

Decaulne, A., Sæmundsson, Th., Eggertsson, O., Laute, K., & A.A. Beylich (2009): Using dendrogeomorphology to address frequency and magnitude of recent snow avalanches on colluvial surfaces in cold mountain environments. *NGU Report 2009.050*: 23.

Gintz, D., Beylich, A.A., Zippel, B. & K. Laute (2008): Using biofilm analysis in steep bedload mountain streams for detection of stable and mobile channel units – a new approach for analysis of bedload transport. 33rd International Geological Congress 2008, Oslo, Norway.

Gintz, D., Beylich, A.A., Zippel, B. & K. Laute (2008): Detection of stable and mobile channel units using biofilm analysis in cold environments. *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-03877, 2008.

Gintz, D., Laute, K., Schmidt, K.-H., Morche, D. (2007): Hydraulic geometry, grain size and grain shape characteristics of a high mountain river (Partnach River, Upper Bavaria). In: Beylich, A.A., Lamoureux, S. & A. Decaulne (eds.): *Sediment Fluxes and Sediment Budgets in Changing High-Latitude and High-Altitude Cold Environments*. Second Workshop of I.A.G./A.I.G. SEDIBUD (Sediment Budgets in Cold Environments), Abisko, Sweden. Geological Survey of Norway Report 2007.052, pp. 35-36.

Hansen, L., Liermann, S., Laute, K. & A.A. Beylich (2011): Volume estimation of the Bødalen delta, western Norway – a first outline. *Geophysical Research Abstracts* 13, EGU2011-13795, 2011.

Hansen, L., Waldmann, N., Ariztegui, D., Chapron, E., Eilertsen, R., Liermann, S., Laute, K. & A.A. Beylich (2010): Radar structure of a Gilbert-type delta affected by rock-slope failure, Bødalen, Western Norway. *18th International Sedimentology Congress, Mendoza, Argentina, September 26th-October 1st*, Abstracts.

Other material:

SEDIBUD Key Test Site Database (compiled by **K. Laute**, D. Gintz & A.A. Beylich)
online published: <http://www.geomorph.org/wg/wgsb.html>