CV

Dr. Achim A. Beylich

Research Scientist,* Professor *rank

- **Head of Operations, *GFL***
- **Editor-in-Chief, *Geomorphology (Elsevier)***
- **Associate Editor, *Global and Earth Surface Processes Change (Elsevier)***
- **Topical Editor, *Earth System Science Data (Copernicus)***
- **Academic Editor, *Water (MDPI)***
- **Secretary-General, *International Association of Geomorphologists (IAG)***
- **Coordinator and Chair, *GeoNorth (IAG Nordic Group Member and IAG Network)***
- **Steering Committee Member (Chair 2017-2022), *IAG Working Group DENUCHANGE***
- **Election Committee Member, *Geological Society of Norway (NGF) Trondheim***

Geomorphological Field Laboratory (GFL)

Trondheim-Selbu (Norway) and Alicante-Calpe (Spain) offices

Main office: Strandvegen 484, 7584 Selbustrand, NORWAY

Email: achim.beylich@geofieldlab.com, achim.beylich@gmail.com

GFL Website: *https://geofieldlab.com*

Geomorphology journal (Elsevier): *https://sciencedirect.com/journal/geomorphology*

IAG Website: *http://www.geomorph.org*

NGF Website: *https://www.geologi.no*

Ongoing scientific projects, programs and networks

(see further details at https://geofieldlab.com/our-research-activities/)

- **SediSource – Nordfjord (GFL, 2014-2024)**
- **DenuMountChange – Dovrefjell-Oppdal (GFL, 2012-2025)**
- **DenuMed – Costa Blanca (GFL, 2018-2025)**
- **ChannelFluCut – Austfirðir (GFL, since 2018)**
- **WoodChannelInteract (GFL, 2020 - 2025)**
- **DenuBoreal – Selbusjøen (GFL, 2020 - 2025)**
- **DENUCHANGE (IAG, 2017-2026)**
- **GeoNorth (IAG, since 2019)**
- **GeoNor (IAG, 2019 – 2023; since 2023 continued as NGF Geomorfologi)**

Born: 7 June 1970, Huntsville, Alabama, USA; **Citizenships:** German and American
School: 1976 – 1989, Abitur in Aachen (Germany) in 1989
Civil Service: 1989-1990 in Aachen (Germany)

Language skills: German, English: native/excellent; Norwegian: excellent; Swedish: excellent; Spanish: good; French: basic; Icelandic: basic

Study (1990 – 1995):

Geography (Geography, Economic Geography, Urban Water Management) 1990 – 1995, Department of Geography, RWTH Aachen, GERMANY;
Geology, 1992-1995, Department of Geology, RWTH Aachen, GERMANY
Examination:
Geographer, M.A., 1995, Department of Geography, RWTH Aachen, GERMANY; Magister Thesis on Coastal Geomorphology, Northern Germany: Untersuchungen zur rezenten Morphodynamik der Schleswig-Holsteinischen West- und Ostküste (unpublished)
Mentors and Supervisors: Prof. Frank Ahnert, Dr. Wolfgang Römer (RWTH Aachen)

Doctorate (1996 – 1999):

Dr. rer. nat., 1996 – 1999 (With Honour: *Summa Cum Laude; Award: Luther Urkunde*), Institute of Geography, Martin-Luther-University Halle-Wittenberg, Halle (Saale), GERMANY
Thesis: Beylich, A.A. (1999): Hangdenudation und fluviale Prozesse in einem subarktisch-ozeanisch geprägten, permafrostfreien Periglazialgebiet mit pleistozäner Vergletscherung – Prozessgeomorphologische Untersuchungen im Bergland der Austfirðir (Austdalur, Ost-Island). *Berichte aus der Geowissenschaft*. Aachen. 130pp.
Financial support (Grants to Achim A. Beylich): Graduierten-Stipendium of Bundesland Sachsen-Anhalt, Deutscher Akademischer Austauschdienst (DAAD, Bonn)
Supervisors: Prof. K.-H. Schmidt (Halle / Saale), Prof. F. Ahnert (Aachen), Prof. J.-F. Venzke (Bremen)

Post-Doc and Visiting Scientist positions (1999 – 2004):

1999 – 2001: ***Post-Doc Scholar*** at the Department of Earth Sciences, Uppsala University, SWEDEN:
DAAD (Deutscher Akademischer Austauschdienst) – Post-Doc-Grant, Post-Doc-Programme, Hochschulsonderprogramm III **(Grant to Achim A. Beylich)**
Project: Recent sediment budget and relief development in Latnjavagge (Swedish Lapland)
Financial support:
Deutscher Akademischer Austauschdienst (DAAD, Bonn), Swedish Natural Science Research Council (VR), The Royal Swedish Academy of Science (KVA), Department of Earth Sciences, Uppsala University, Sweden
From 2002: Emmy Noether-Programm of Deutsche Forschungsgemeinschaft (DFG, Bonn) (*Excellence Programme*)
Project: Mass transfers, sediment budgets, and relief development in periglacial geosystems

2002 – 2004: ***Post-Doc and Visiting Scientist*** at the Department of Earth Sciences, Physical Geography, Uppsala University within the Emmy Noether-Programme of DFG (German Science Foundation)

Financial support:

- German Science Foundation, DFG (Bonn, Germany)
- Department of Earth Sciences, Uppsala University, Sweden
- European Commission (EC) LAPBIAT

April – August 2004:

Visiting Scientist at the Natural Research Centre of Northwestern Iceland (NNV), Saudarkrokur, ICELAND

Financial support: Natural Research Center of Northwestern Iceland (NNV)

Employment history, Adjunct Professorships, Visiting Professorships and Invited Scientific Visiting Stays (since 2004):

September 2004 – February 2018:

Scientist (permanent research position, full-time) at the Geological Survey of Norway (NGU), Trondheim, NORWAY (http://www.ngu.no)

In addition (2005 – 2011: two three-year periods):

Associate Professor II at the Norwegian University of Science and Technology (NTNU), Department of Geography, Dragvoll, Trondheim, NORWAY (http://www.ntnu.no) (teaching and research position, part-time)

May 2009:

Invited Visiting Stay at the University of Halle-Wittenberg, Halle/S., GERMANY (collaboration with Dr. Dorothea Gintz and Prof. Karl-Heinz Schmidt)

September 2009:

Invited Visiting Stay at the University of Turku, FINLAND (collaboration with Prof. Jukka Käyhkö)

April 2010:

Invited Visiting Stay at the University of Kaiserslautern, GERMANY (collaboration with Dr. Dorothea Gintz and Prof. Robert Jüpner)

October 2010 – March 2011:

Visiting Professor at the University of British Columbia (UBC), Department of Geography, Vancouver, British Columbia, CANADA (funded by the Norwegian Research Council (NFR): NFR Leiv Eiriksson Programme; collaboration with Prof. Marwan Hassan)

November 2013:

Invited Visiting Stay at the University of Nantes, FRANCE (collaboration with Prof. Dominique Sellier)

October – December 2015:
Visiting Professor at the University (KU) of Eichstätt-Ingolstadt, GERMANY (funded through University (KU) Eichstätt-Ingolstadt; collaboration with Prof. Michael Becht)
May 2016:
Invited Visiting Stay at the University of Poznan, POLAND (collaboration with Prof. Zbigniew Zwoliński)
September 2018:
Invited Visiting Stay at the University of Poznan, POLAND (collaboration with Prof. Zbigniew Zwoliński)
February 2020:
Invited Visiting Stay at the University of Zaragoza, SPAIN (collaboration with Prof. Francisco Gutierrez and Dr. Gloria Desir)
March 2023:
Invited Visiting Stay at the University of Haifa, ISRAEL (collaboration with Dr. Nurit Shtober-Zisu)
September 2023:
Invited Visiting Stay in Nevsehir, Cappadocia, TURKIYE (collaboration with Prof. Cengiz Yildirim)
April 2024:
Invited Visiting Stay at the Polish Academy of Sciences in Krakow, POLAND (collaboration with Dr. Eliza Placzkowska)

Since 2011:
Research Scientist with Full Professor rank
Promotion to *Researcher Code 1183 (Professor competence)*
External Promotion Committee Members:
Prof. Olav Slaymaker (Vancouver, Canada), Prof. John C. Dixon (Fayetteville, USA)
Promotion Committee Coordinator at NGU: Dr. Ola M. Sæther (Trondheim, Norway)

Since 1 March 2018:
Head of Operations (GFL) and Research Scientist, Professor rank (self-employed)
Geomorphological Field Laboratory (GFL)
Strandvegen 484
7584 Selbustrand
NORWAY
Beylich Geomorfologisk Feltlaboratorium (GFL)
Org.nr. 920 540 627 MVA Foretaksregisteret
https://geofieldlab.com

Since 1 October 2018:
Editor-in-Chief
Geomorphology (Elsevier)
https://sciencedirect.com/journal/geomorphology

Since 1 November 2023:
Associate Editor
Global and Earth Surface Processes Change (Elsevier)
https://sciencedirect.com/journal/global-and-earth-surface-processes-change

Ongoing and relevant completed projects, networks, programs and initiatives headed by myself:

- **ESF - NFR *SedyMONT - Norway* (2008-2013/2020) (European Science Foundation (ESF), Norwegian Research Council (NFR FRIPRO / FRINATEK), NGU), GFL (GFL since 2018))** (*A.A. Beylich PI and Project Leader for SedyMONT - Norway*) (ESF EUROCORES Programme TOPO-EUROPE), Doctorands: Susan Liermann (2009 – 2016), Katja Laute (2009 – 2013), Timi Lopez (2009 - 2016)
- ***SediSource - Nordfjord: Sediment source fingerprinting investigations for additional analyses of drainage basin erosion dynamics in the partly glacierized inner Nordfjord, western Norway* (2014-2024)** (NGU, **GFL**; collaboration with EEAD-CSIC, Department of Soil and Water, Zaragoza, Spain)
- ***DenuMed - Costa Blanca: Morphoclimate, sediment sources, sediment storage, sediment (dis)connectivity, and drivers, spatiotemporal variability, quantitative rates and hazardous potential of land-to-ocean water, solute and sedimentary fluxes and denudation in the Mediterranean Calpe region, eastern Spain (GFL*** 2018-2025*)*
- ***ChannelFluCut - Austfirðir: Hillslope - stream channel (dis)connectivity, sedimentary source-to-sink fluxes, fluvial down-cutting and longitudinal profile development in bedrock stream channels in the fjord landscape of easter Iceland (Austfirðir) (GFL*** since 2018*)*
- **NFR *Bedload transport in steep mountain streams: Integrating field measurements with flume experiments* (2010 - 2011)** (Leiv Eiriksson Project, collaboration with UBC Vancouver, Department of Geography, Canada)
- ***Source-to-Sink Fluxes in Cold Environments.*** Financial support (2004 – 2011): NGU, additional sources in Norway, Iceland, Sweden, Finland and Germany
- ***Holocene Landscape Formation in Cold Environments*** (NGU, additional sources in Norway, Iceland, Sweden, Finland and Germany, 2008 - 2011)

- *Norwegian Project Leader:* ***Detects biofilm variability stable and mobile channel pavement patterns in steep bedload streams in cold environments?*** (NGU, NFR (Norway) / DAAD (Germany)) (2008-2012)
- ***Morphoclimate, sediment sources, and drivers, spatiotemporal variability and rates of solute and sedimentary fluxes and denudation in the boreal Homla drainage basin system, central Norway*** *(NGU,* ***GFL*** 2011-2018*)*
- ***DenuMountChange – Dovrefjell-Oppdal: Morphoclimate, sediment sources, sediment (dis)connectivity, and drivers, spatiotemporal variability and quantitative rates of solute and sedimentary fluxes, denudation and sediment export under ongoing climate change in the mountainous upper Driva drainage basin system, central Norway*** *(NGU,* ***GFL*** 2012-2025*)*
- ***WoodChannelInteract: The role of vegetation and wood for the morphodynamics, in-channel sediment storage and sediment transport of a small boreal stream channel system (GFL field test site Sandviksgjerde, Selbustrand, central Norway) (GFL,*** 2020-2025***)***
- ***DenuBoreal – Selbusjøen: Drivers, spatiotemporal variability and quantitative rates of chemical and mechanical fluvial denudation and sedimentary source-to-sink fluxes in the boreal drainage basin area of Selbusjøen, central Norway (GFL,*** 2020 - 2025***)***
- ***Chair*** of the **ESF Network** ***SEDIFLUX (Sedimentary Source-to-Sink Fluxes in Cold Environments)*** (2004 – 2006/2017)
- ***Chair*** of the **IAG Programme** ***SEDIBUD (Sediment Budgets in Cold Environments)*** (http://www.geomorph.org/sedibud-working-group/) (2005-2017)
- ***IAG SEDIBUD Synthesis Book Project*** *(Cambridge University Press) (http://www.geomorph.org/sedibud-working-group/); the SEDIBUD Synthesis Book is published: Beylich, A.A., Dixon, J.C. and Z. Zwolinski (Eds.) (2016): Source-to-Sink Fluxes in Undisturbed Cold Environments. Cambridge University Press, Cambridge. 408 pp.* (2012-2016)
- *Lead Contact of the* ***IPY EoIs SEDIFLUX / SEDIBUD and DYNAFLUX*** (both included in IPY BIPOMAC)
- *Coordinator of the* ***DYNAFLUX / DYNACOLD*** **Network** (2004 - 2017; NGU, IPY: EoI DYNAFLUX / IPY BIPOMAC)
- ***Chair*** *(2017-2022) and* ***Steering Committee Member*** *(2022-2026) of the* ***IAG Working Group DENUCHANGE (Denudation and Environmental Changes in Different Morphoclimatic Zones)*** *(2017-2026) (http://www.geomorph.org/denuchange-working-group/)*
- ***Initiator and Chair*** ***of IAG GeoNor (Geomorphological Research Group of Norway; IAG National Scientific Member for Norway)*** (September 2019 – January 2023) (https://geofieldlab.com, http://www.geomorph.org/national-scientific-members/)

- ***Initiator, Coordinator and Chair of IAG GeoNorth (IAG Nordic Network of Geomorphology Groups from Norway, Sweden, Finland, Denmark and Iceland; IAG NSM GeoNorth: Nordic Group Member and IAG Network)*** (since 2019) (https://geofieldlab.com, https://geonorth.org, http://www.geomorph.org/national-scientific-members/)
- ***IAG Springer-Book Series project on "World Geomorphological Landscapes": Invited Book Editor for Norway:*** *Beylich, A.A. (Ed.) (2021). Landscapes and Landforms of Norway. Springer. 288pp.* (2018-2020).
- ***MDPI Journal Water: Invited Guest Editor for the Special Issue on Fluvial Processes and Denudation*** (2019-2021): *Beylich, A.A. (Ed.) (2021). Fluvial Processes and Denudation. Water, Special Issue*. (https://www.mdpi.com/journal/water/special_issues/Fluvial_Processes_Denudation)
- ***SPRINT - Earth's Sediment Processes in the Anthropocene (planned EU COST Action) related to IAG DENUCHANGE*** *(proposal submitted to the European Commission)*
- ***Book Project (Elsevier):*** Edited book on *Climate and Anthropogenic Impacts on Earth Surface Processes in the Anthropocene:* ***Invited Book Editor*** (2021-2024)
- ***MDPI Journal Water: Invited Guest Editor for the Special Issue on Fluvial Systems and River Geomorphology*** (2022-2024)

Participation in relevant past and current projects, networks and initiatives (selection):

- *IPY ArcticNet: Western High Arctic watershed and landscape responses to climate change / Polar Continental Shelf Project, Canada*. Cape Bounty Arctic Watershed Observatory (2007-2011)
- *NFR SEDITRANS (2004-2008)*
- *IPY-NFR SciencePub (2007-2011)*
- *Coupling of slope and fluvial systems in high energy mountain environments under a changing climate. Case studies of processes and sediment fluxes from Vinstradalen and Erdalen, Norway (NTNU - NFR) (2007 - 2008)*
- *Erosion holes in alluvial rivers (NTNU, NVE, NGU) (2005 - 2008)*
- *WUN Arctic Environments: Vulnerabilities and Opportunities (AEVO) Network*
- *KARMA 3D: 3D Mapping and characterising of superficial deposits and groundwater (NGU) (2013 - 2016) (Sub-task: Detecting, characterising and quantifying pollutant, solute and sediment sources and delivery from selected drainage basin sub-systems, Orkla drainage basin, Norway)*
- *COST Action CONNECTEUR – Connecting European Connectivity Research (ES1306) (EC) (2014 – 2018)*
- *Young-SCENE: Young SCienceEducation for Europe in a New Era (European network)*
- *Coastal evolution and adaptation (international scientific network; funding proposal in preparation for EU COST Action)*
- *Emerging Rivers from Melting Glaciers (ERMES) (international scientific network)*
- *IASC AGORA (interdisciplinary and international scientific network)*

- *PROMINENT (international scientific network)*
- *IAG Working Group on Badlands (since 2021) (www.geomorph.org)*
- *REACT (from REsistance to ACTion) (global network, see further details at: www.react-project.com)*
- *The Legacy of Mountain Glaciations (international scientific network)*
- *DEFCON (invited collaborator from Norway in Polish-German project proposal submitted to NCN-Poland and DFG-Germany)*

Completed Doctorands:

- Timi Lopez (University of Bonn, Department of Geography) (mentored) (ESF-NFR, SedyMONT-Norway, individual Doctoral Project connected to SedyMONT-Norway, 2009-2016). Doctoral thesis on *Changing Cultural Landscapes around the Jostedalsglacier (West Norway), from Cultural Landscape Management to Cultural Landscape Governance – a Future Path?* successfully defended on 18 October 2016 at the Department of Geography, University of Bonn, Germany.
- Skafti Brynjólfsson (NTNU, Department of Geology and MRI) (co-supervised) (2011-2015, IVT Faculty at NTNU). Doctoral thesis on *Dynamics and glacial history of the Drangajökull ice cap, Northwest Iceland*. Successful defence of Doctoral thesis on 24 September 2015 at the Department of Geology and MRI, IVT Faculty, NTNU, Trondheim.
- Katja Laute (NGU) (ESF-NFR, NGU SedyMONT-Norway, 2009-2013, NFR Project Research Assistant Position 2009-2015). Doctoral thesis on *Denudational processes and relief development in mountain valleys in western Norway: A Holocene to contemporary time perspective*. Successfully defended on 22 November 2013 at the Department of Geology and MRI, IVT Faculty, NTNU, Trondheim.
- Habtamu Itefa Geleta (University of Stuttgart, Institute of Hydraulic Engineering, Department of Hydraulic Engineering and Water Resources Management) (co-supervised). Doctoral thesis on *Watershed Sediment Yield Modeling for Data Scarce Areas*; International Doctoral Programme Environment Water (ENWAT), 2007-2010. Successful defence of Doctoral Thesis on 14 December 2010.

Member of Doctoral Committees and Evaluation Panels:

- Nils Rüther: Computational fluid dynamics in sedimentation engineering. PhD Thesis defence at the Faculty of Engineering Science and Technology, Department of Hydraulic and Environmental Engineering, NTNU Trondheim, Norway in November 2006. *External Examiner*.
- Marie Chenet: La Réponse De Versants Islandais Aux Fluctuations Glaciaires. Doctoral Thesis Defence at the University of Paris 1, Laboratory of Physical Geography, Fance on 24.11.2008.

- Riwan Kerguillec: Les dynamiques périglaciaires actuelles dans un milieu de haute montagne atlantique: parcs nationaux du Oppland et du Sør-Trøndelag, Norvège centrale. Doctoral Thesis Defence at the University of Nantes, Geographic Institute, UMR-CNRS 6554, France on 08.11.2013.
- Anuschka L. Buter : Free University of Bozen, Faculty of Science and Technology, Italy, December 2020. *External Reviewer*.
- Dongfeng Li : National University of Singapore, Department of Geography, Singapore, May - September 2021. *External Examiner*.

Visiting Doctoral Students (completed):

- Marius-Lucian Dulgheru (Babes-Bolyai University, Cluj-Napoca, Romania), at NGU (SedyMONT-Norway, SEDIFLUX / SEDIBUD) in 2010 (financial support: Romanian Government and NGU)
- Mioara-Ramona Chiaburu (Babes-Bolyai University, Cluj-Napoca, Romania), at NGU (SedyMONT-Norway, SEDIFLUX / SEDIBUD) in 2010 (financial support: Romanian Government and NGU)

Other Training Activities (selection):

Invited teaching and training in Norway and Spain, and supervision/co-supervision or mentoring of students from Norway (also acting as external examiner), Spain, Germany, Switzerland, Sweden, Finland, France, Italy, The Netherlands, UK, Canada (including also Erasmus+ for Traineeship students)

International teaching and training experience: Basic and advanced lectures, research-oriented lectures and training, basic and advanced seminars, field and laboratory courses, field excursions on Physical Geography and Geomorphology) in Halle/Saale (Germany, 1996-1999 and 2009), Uppsala (Sweden, 2000-2004), Iceland (2004), Trondheim (Norway, since 2004), Vancouver (Canada, 2010-2011), Eichstätt (Germany, 2015), Poznan (Poland, 2016 and 2018), Selbu (Norway, since 2018), Calpe and Zaragoza (Spain, since 2019), Nevsehir/Cappadocia (Turkiye, 2023)

Invited Teacher in the PhD Course "Field-based physical geography in boreal and subarctic environments, University of Turku, Department of Geographie and Kevo Subarctic Research Station, Finland, 7.-12.09.2009

Organiser of the ESF TOPO-EUROPE (CRP SedyMONT) Workshop and PhD Summer School "Detecting Landscape Change", Loen (Nordfjord, Norway), August 31 - September 8, 2010

Organiser of the IAG SEDIBUD 7th Workshop, Field Trip and SEDIBUD Summer School "Quantitative analysis of geomorphologic processes: Field methods, experimental techniques and modelling" for Doctoral Students, Trondheim and Loen (Nordfjord), Norway, September 10 – 17, 2012 (http://www.geomorph.org/sedibud-working-group/)

Research Interests:

- Geomorphology
- Hydrology
- Morphoclimatology
- Geoecology
- Process Geomorphology
- Functional Geomorphology
- Periglacial Geomorphology
- Sedimentary budgets
- Hillslope-stream channel coupling
- Geomorphic, landscape and sediment (dis)connectivity
- Sedimentary source-to-sink fluxes and correlations
- Land-to-ocean solute and sedimentary fluxes
- Coastal Geomorphology
- Magnitude and frequency in Geomorphology
- Extreme events in Hydrology and Geomorphology
- Holocene to contemporary landscape development
- Anthropogenic impact on Earth surface systems
- Climate change and Earth surface systems
- Field and laboratory methods and techniques in Geomorphology

Research and Fieldwork Regions:

- Norway (with Svalbard)
- Spain
- Iceland
- Swedish Lapland
- Finnish Lapland
- Canada
- European Alps (Austrian, German, Italian, Swiss Alps)
- Russia
- New Zealand
- France
- Northern Germany

Other Activities and Invited Tasks (selection):

- Secretary-General, *International Association of Geomorphologists (IAG)(2022-2026)*
- Chair of *IAG GeoNor (Geomorphological Research Group of Norway, IAG National Scientific Member for Norway, September 2019 - January 2023); since 1/2023 continued as NGF Geomorfologi*
- Coordinator and Chair of *IAG GeoNorth (IAG Nordic Network of Geomorphology Groups from Norway, Sweden, Finland, Denmark and Iceland, and IAG National Scientific Member GeoNorth: Nordic Group Member and IAG Network) (2019 -)*
- Norwegian National Scientific Representative (including IAG National Scientific Member GeoNor, Norway) for *IAG (2018-2023)*
- Elected Steering Committee Member (2022-2023: Event Manager; and 2023-2024: Treasurer) of *Geological Society of Norway (NGF) Trondheim (2022-2024)*
- Election Committee Member for *Geological Society of Norway (NGF) Trondheim (2024-2026)*
- Editor-in-Chief, *Geomorphology (Elsevier) (since 2018) (https://sciencedirect.com/journal/geomorphology)*
- Associate Editor, *Global and Earth Surface Processes Change (Elsevier)*
- Topical Editor, *Earth System Science Data (ESSD) (Copernicus)*
- Member of the *European Association of Science Editors (EASE)*
- Editorial Board Member for *Heliyon (Elsevier)*
- Academic Editor and Special Issue Guest Editor for *Water (MDPI)*
- Member of the Reviewer Board of *Water (MDPI)*
- Member of the *Evaluation Committee* for the *"Best Ph.D. Thesis Award 2022",* journal *Water (MDPI)*
- Member of the *Evaluation Committee* for the *Water 2023 Young Investigator Awards (MDPI)*
- Regional Editor *of The Open Geology Journal (until 2016)*
- Member of the Editorial Committee of *Norsk Geografisk Tidsskrift NGT - Norwegian Journal of Geography (until 2015)*
- Editorial Board Member for *Revista de Geomorfologie (Journal of Geomorphology)*
- Editorial Board Member for *Landform Analysis*
- Editorial Board Member for the *Journal of Geosciences Research*
- Member of the Reviewer Board of *Remote Sensing (MDPI)*
- Referee for the *European Science Foundation (ESF): ESF College of Expert Reviewers*
- Referee and Panel Member for the *German Science Foundation (DFG)*
- Referee for the *Austrian Science Fund (FWF)*
- Referee for the *Swiss National Science Foundation (SNSF)*
- Referee for the *Netherlands Organisation for Scientific Research (NWO)*
- Referee for the *National Science Centre, Poland (NCN)*
- Member of different *Expert Panels of the National Science Centre, Poland (NCN)*

- Referee for the *Natural Sciences and Engineering Research Council of Canada (NSERC)*
- Referee for the *IPY Programme of The Netherlands*
- Referee within the Strategic Project *"Doctorate in Universities of Excellence – Research Assessment and Support for Scientific Publishing (2009-2011)* (EU Structural Funds, Operational Programme Human Resources Development)
- Referee for *EC COST Actions*
- Referee for the *Leibniz-Gemeinschaft, Germany*
- Referee for the *VolkswagenStiftung, Germany*
- Reviewer for the *Humboldt-Foundation, Germany*
- Referee for the *Autonomous Province of Bolzano in Northern Italy*
- Referee for *Fondazione Cassa di Risparmio di Padova e Rovigo, Padua, Italy*
- Referee for the *IUCN (International Union for Conservation of Nature) World Heritage Programme*
- Expert Reviewer for the *Second Order Draft of the IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)*
- Member *of Expert Committees* for appointments at the *Norwegian University of Science and Technology (NTNU), Trondheim, Norway*
- Reviewer for *Academic Promotion Committee* at the *University of Haifa, Israel*
- Referee for several scientific journals: *Geomorphology, Earth Surface Processes and Landforms, Earth-Science Reviews, Geology, Science, Science Advances, Scientific Reports, Water Resources Research, Geografiska Annaler, Catena, Arctic, Antarctic, and Alpine Research, Hydrological Processes, Journal of Hydrology (Wiley), Journal of Hydrology (Elsevier), Discover Water, Environmental Sciences Europe, Earth System Science Data (ESSD), Earth Surface Dynamics (ESurf), Hydrological Sciences Journal, Water, Land, Hydrology, Journal of Hydraulic Engineering, Hydrology Research, Advances in Mechanical Engineering, Zeitschrift für Geomorphologie, Erdkunde, Progress in Physical Geography, Permafrost and Periglacial Processes, Quaternary Research, Global and Planetary Change, Science of the Total Environment, Land Degradation & Development, Journal of Soils and Sediments, International Journal of Coal Geology, U.S. Geological Survey Professional Paper Series, Geographies, Quaternary, Journal of Marine Science and Engineering, Sustainability, Applied Sciences, Remote Sensing, Energies, Agronomy, International Journal of Environmental Research and Public Health, International Soil and Water Conservation Research, Geoscience Frontiers, Polar Record, Boreas, Norwegian Journal of Geology, Studia Geomorphologica Carpatho-Balcanica, Agricultural Water Management, International Journal of Earth Sciences, Central European Journal of Geosciences, PLOS ONE, Open Geosciences, Geologica Carpathica, Landform Analysis, Quaestiones Geographicae*

- Member of the Scientific Committee, Co-Organiser and Invited Plenary Speaker for the *IAG Regional Conference on Geomorphology "Geodiversity of Polar Landforms", Longyearbyen, Svalbard, 1-5 August 2007.*
- Scientific Organiser or Co-Organiser of several *Scientific Workshops* (e.g. ESF SEDIFLUX (Saudarkrokur (Iceland) in 2004, Trondheim (Norway) in 2006), IAG SEDIBUD (Trondheim (Norway) in 2006, Abisko (Sweden) in 2007, Boulder (USA) in 2008, Kingston (Canada) in 2009, Saudarkrokur (Iceland) in 2010, Zakopane (Poland) in 2011, Trondheim and Loen (Norway) in 2012, Garmisch-Partenkirchen / Zugspitze (Germany) in 2014, Kaunertal (Austria) in 2015, Bansko (Bulgaria) in 2016, and Baru (Romania) in 2017, see full details under http://www.geomorph.org/sedibud-working-group/); IAG Working Group DENUCHANGE Planning Meeting in 2018 (9 April 2018 during EGU 2018, Vienna, Austria) and First IAG DENUCHANGE Workshop in Storkowo-Szczecinek (Poland), 25-27 September 2018; Second IAG DENUCHANGE Workshop in Calpe (Spain), 12-14 September 2019, Third IAG DENUCHANGE Workshop in Haifa (Israel), 13-16 March 2023 (Scientific Committee Member), Fourth IAG DENUCHANGE Workshop, 23-26 September 2024 in Rome (Italy) (Scientific Committee Member); IAG DENUCHANGE Business and Planning Meetings (virtual meetings) on 13 October 2020, 11 February 2021, 13 April 2021, 3 June 2021, 7 September 2021, 23 November 2021, 10 February 2022, 18 May 2022, 29 June 2022 and 16 September 2022 (in-person meeting during IAG ICG 2022 in Coimbra, Portugal); IAG DENUCHANGE Round Tables (public virtual events) during the IAG International Geomorphology Weeks 2021 (4 March 2021) and 2022 (1 March 2022); IAG DENUCHANGE Scientific Webinar on 13 October 2021 (find more details on all these scientific events under http://www.geomorph.org/denuchange-working-group/ and under the GFL link https://geofieldlab.com); and *Scientific Conference Sessions*, e.g., at EUCOP II in 2005 (Potsdam, Germany), at the Nordic Geographers Meetings in 2007 (in Bergen, Norway) and in 2009 (in Turku, Finland); at the IAG International Conferences on Geomorphology in 2009 (two Sessions: SEDIBUD and Small Catchments) (in Melbourne, Australia), in 2013 (SEDIBUD - Sediment Budgets) (in Paris, France), in 2017 (SEDIBUD – Sediment Budgets) (in New Delhi, India), in 2022 (Thematic Session 5 on *Forms, Processes and Landscape Change,* including a *DENUCHANGE* Session Section) (in Coimbra, Portugal), and in 2026 (three Sessions) (in Christchurch, New Zealand); at the IAG Regional Conferences on Geomorphology in Athens (Greece), 19-21 September 2019, in Cappadocia (Turkiye), 12-14 September 2023, and in Timisoara (Romania), 16-18 September 2025; at the Geological Society of America (GSA) Annual Meeting in Anaheim (USA), 22-25 September 2024 (two IAG-endorsed and co-organized conference technical sessions), and at the EGU Annual General Assemblies (Vienna, Austria) in 2010, 2011, 2012, 2013, 2014, 2015 (two sessions), 2016, 2017, 2018, 2019, 2020 (EGU 2020: Sharing Geoscience Online), 2021 (vEGU21: Gather Online), 2022, 2023, 2024 and 2025 (find details on the various conference sessions at http://www.geomorph.org/sedibud-working-group/, http://www.geomorph.org/denuchange-working-group/,

https://geofieldlab.com); Organiser of the First IAG GeoNorth / IAG GeoNor Planning and Strategy Meeting (Virtual Meeting on 28 May 2020) connected to the EGU Annual General Assembly (EGU 2020: Sharing Geoscience Online, 4-8 May 2020), of the First joint IAG GeoNorth and IAG GeoNor Scientific Conference, 1-2 October 2020 (Virtual Conference, including IAG GeoNorth and IAG GeoNor Business Meeting on 2 October 2020) (please find all further details under: http://www.geomorph.org/national-scientific-members/, https://geofieldlab.com, https://geonorth.org); Organiser of the Second IAG GeoNorth and GeoNor Scientific Conference (Virtual Conference with GeoNorth and GeoNor Business Meetings), 30 September – 1 October 2021; and of the IAG GeoNorth and IAG GeoNor Business and Planning Meetings on 9 February 2021, 15 April 2021, 1 June 2021, 1 October 2021, 6 May 2022 (virtual meetings), 24 May 2022 (during the EGU conference, Vienna, Austria), 16 September 2022 (during the IAG ICG2022 in Coimbra, Portugal), 25 October 2022 (virtual meeting), 24 April 2023 (GeoNorth meeting, during the EGU conference, Vienna, Austria), and 19 April 2024 (GeoNorth meeting, during the EGU conference, Vienna, Austria); Co-Organiser of the IAG Regional Webinars for *Northern Europe* during the IAG International Geomorphology Weeks 2021 (3 March 2021), 2022 (4 March 2022), 2023 (two Regional Webinars: *Northern Europe*, 3 March 2023, and *Western Europe*, 7 March 2023), 2024 (two Regional Webinars: *Northern Europe*, 6 March 2024, and *Western Europe*, 1 March 2024), and 2025 (Regional Webinar: *Northern and Western Europe*, 6 March 2025); Convener of the *IAG International Geodiversity Day Webinar 2024*, 29 October 2024 (see all details at https://geofieldlab.com, http://www.geomorph.org); Scientific organiser of DYNAFLUX / DYNACOLD Workshops in Trondheim (in 2004 and in 2008), Copenhagen (three Workshops in 2005, one in 2013, two in 2014, one in 2015), Gothenburg (in 2007), Oslo (in 2010 (IPY) and in 2012), Vienna (in 2011, 2012, 2013, 2016 and 2017, EGU); Invited Guide at the IGC Excursion UNESCO FJORDS (August 2008)

- Member of the *EGU Geomorphology Programme Committee* (2010-2011, 2011-2012)
- Subgroup Chair *Spatial Variability* within the IPA Working Group on Periglacial Landforms, Processes and Climate (2003-2008)
- Member of the Scientific Committee for the *9th IAG International Conference on Geomorphology, November 6-11, 2017, New Delhi, India*
- Member of the Scientific Committee for the *10th IAG International Conference on Geomorphology, 12-16 September 2022, Coimbra, Portugal*
- Member of the Scientific Committee and Invited Keynote Speaker for the *IAG Regional Conference on Geomorphology, 12-14 September 2023, Cappadocia, Türkiye*
- Invited Keynote Speaker at the *National Scientific Conference "Geoenvironment – Climate, Nature, Man", Polish Academy of Sciences, 5 April 2024, Krakow, Poland*
- Member of the Scientific Committee for the *IAG Regional Conference on Geomorphology, 16-18 September 2025, Timisoara, Romania*
- Member of the Scientific Committee for the *11th IAG International Conference on Geomorphology, 2-6 February 2026, Christchurch, New Zealand*

Active Memberships:

- European Geosciences Union (EGU)
- American Geophysical Union (AGU)
- Geological Society of America (GSA)
- International Association of Hydrological Sciences (IAHS)
- British Society for Geomorphology (BSG)
- International Water Association (IWA)
- Japanese Geomorphological Union (JGU)
- Mountain Research Initiative (MRI), MRI Expert Database
- PAGES Network
- German Society for Geomorphology (DGGM)
- Verband der Geographen an Deutschen Hochschulen (VGDH)
- DAAD Alumni and DAAD Freundeskreis
- NTNU Alumni
- Geological Society of Norway (NGF)
- Norwegian Geographical Society (NGS)
- Swedish Society for Anthropology and Geography (SSAG)
- Geoscience Society of Iceland
- Næringsforeningen i Trondheimsregionen (NiT)
- Næringsforeningen i Værnesregionen (NiV)

Selected peer-reviewed publications and edited works

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Beylich, A.A. (2005): Intensity and spatio-temporal variability of chemical denudation in an arctic-oceanic periglacial drainage basin in northernmost Swedish Lapland. *Nordic Hydrology,* **36** (1): 21-36.

Beylich, A.A. (Ed.) (2006): SEDIFLUX **-** Sedimentary Source-to-Sink-Fluxes in Cold Environments - SEDIFLUX. *Geomorphology,* **80** (1-2): 146pp.

Beylich, A.A. (2008): Mass transfers, sediment budget and relief development in the Latnjavagge catchment, Arctic-oceanic Swedish Lapland. *Zeitschrift für Geomorphologie N.F.,* **52** (1): 149-197.

Beylich, A.A. (2008): Sediment fluxes and sediment budget in Latnjavagge and the potential of applying unified methods for integrating investigations on sediment fluxes and budgets in cold environment catchments. *Geological Survey of Norway Special Publication*, **11**: 111-130.

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Beylich, A.A. (2011): Sediment flux source-to-sink. In: Singh, V.P., Singh, P. & U.K. Haritashya (Eds.), *Encyclopedia of Snow, Ice and Glaciers*. Springer, 1003-1005.

Beylich, A.A. (2010): The global SEDIBUD (Sediment Budgets in Cold Environments) Programme: Coordinated studies of sedimentary fluxes and budgets in changing cold climate environments. *The Open Geology Journal*. **2010, 4**: 59-61.

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Beylich, A.A. (2011): Mass transfers, sediment budgets and relief development in cold environments: Results of long-term geomorphologic drainage basin studies in Iceland, Swedish Lapland and Finnish Lapland. *Zeitschrift für Geomorphologie N.F.,* **55, 2**: 145-174.

Beylich, A.A. (2012): Major controls of mass transfers and relief development in four cold-climate catchment systems in Eastern Iceland, Swedish Lapland and Finnish Lapland (Synthesis Paper). *NGF Abstracts and Proceedings of the Geological Society of Norway*, **1**: 87-123.

Beylich, A.A. (2013): Coordinated and integrated geomorphologic analysis of mass transfers in cold climate environments – The SEDIBUD (Sediment Budgets in Cold Environments) Programme. In: Mass Transfer – Advances in sustainable energy and environment oriented modelling, Chapter 19, 499-511. *INTECH Book Publication*.

Beylich, A.A. (2016): Introduction to the theme. In: Beylich, A.A., Dixon, J.C. & Z. Zwolinski (Eds.), Source-to-Sink Fluxes in Undisturbed Cold Environments. Cambridge University Press, Cambridge, pp. 3-4.

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Beylich, A.A. and the DENUCHANGE Team (2021): The International Association of Geomorphologists (IAG) Working Group on Denudation and Environmental Changes in Different Morphoclimatic Zones (DENUCHANGE): Scientific need, research objective, key activities and products. *Geomorphology (Virtual Special Issue)*.

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Beylich, A.A., Decaulne, A. & S.F. Lamoureux (Eds.) (2012): Sedimentary fluxes and budgets in natural and anthropogenically modified landscapes – Effects of climate change and land-use change on geomorphic processes. *Geomorphology*, **167-168.**

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Beylich, A.A. Lamoureux, S.F. & A. Decaulne (2011): Developing frameworks for studies on sedimentary fluxes and budgets in changing cold environments. *Quaestiones Geographicae*, **30(1)**: 5-18.

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Beylich, A.A. & K. Laute (2021): Fluvial Processes and Contemporary Fluvial Denudation in Different Mountain Landscapes in Western and Central Norway. In: Beylich, A.A. (Ed.), Landscapes and Landforms of Norway. Springer, pp. 147-168

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 – Norwegian Journal of Geography, Special Issue*, **63(2)**: 123-131.

Beylich, A.A., Laute, K. & J.E.A. Storms (2017): Contemporary suspended sediment dynamics within two partly glacierized mountain drainage basins in western Norway (Erdalen and Bødalen, inner Nordfjord). *Geomorphology*, **287**: 126-143.

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Beylich, A.A. & O.T. Pop (2019): Editorial. Special Issue "Drivers of denudation rates, source-to-sink fluxes, and sedimentary budgets". *Geomorphology*, **334**: 58-59.

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