

## CURRICULUM VITAE – PETER JANSSON

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### PERSONAL INFORMATION

#### WEB:



**Title:** Professor  
**Born:** 15 November, 1960  
**Nationality:** Swedish  
**Home:** Kantarellvägen 79, 186 55 Vallentuna, Sweden  
**Professional:** Department of Physical Geography,  
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#### ORCID:



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**Researcher ID:** [B-5761-2012](https://orcid.org/B-5761-2012)

#### RESEARCHER ID:



I am permanently employed on a teaching position at the Dept. of Physical Geogr. and Quaternary Geol., Stockholm Univ. I was promoted to Full Professor on 1 July, 2004. **My research** concerns the **thermodynamics of polythermal glaciers, the climate sensitivity of glaciers to climate change** and **ice sheet hydrology comparing the present Greenland Ice Sheet and the former Fennoscandian Ice Sheet**. I also have several ongoing collaborations dealing with **glacier mass balance and climate relationships** with Univ. of Zürich, Univ. of Innsbruck, Univ. of Minnesota, Univ. of Gothenburg and within Stockholm Univ. I have been associated with Tarfala Research Station since 1985 and have run and developed the station environmental monitoring program in particular the world's longest record of mass balance measurements on Storglaciären. I am currently **Subject Responsible** (in Physical Geography), and therefore in charge of the PhD education (c. 40 PhD stud.), at my department. I currently supervise two graduate students. I have **published 62 papers** in ISI-listed international peer-reviewed journals, including one paper in *Nature*; and one in *Science*. I initiated and co-authored a new standard terminology for mass balance measurements published by IACS/UNESCO/IHP as well as a manual for mass balance measurements and training published by UNESHO/IHP. I have co-written a book on glaciology aimed for Swedish undergraduate students, a book manuscript in glaciology for master's students. I have served as **Vice President** of the International Association of Cryospheric Science (IACS). Through IACS I have also headed a UNESCO training course on mass balance measurements in New Delhi and been an invited **keynote speaker** at the third World Water Forum in Kyoto. I am **Editor-in-Chief** of the international journal *Geografiska Annaler: Series A, Physical Geography* since 2010. I was a **contributing author** for the 2007 International Panel on Climate Change (IPCC)-report (WG-1, Ch. 4).

### EDUCATION/PROMOTIONS

*Professor* (Full Professor) of Physical Geogr., Stockholm Univ., 1 Jul., 2004  
*Docent* (Associate Professor) in Physical Geogr., Stockholm Univ., 15 Dec., 1999  
*Doctor of Philosophy* in Physical Geogr., Stockholm Univ., 3 Jun., 1994  
*Doctor of Philosophy* in Geology, Univ. of Minnesota, USA, 31 Mar., 1993  
*Licentiate of Philosophy* in Physical Geogr., Stockholm Univ., 10 Sep., 1991  
*Bachelor of Science* in Earth Sciences (4 yr), Stockholm Univ., 20 Oct., 1986

### EMPLOYMENT

*Senior Lecturer*, Dept. of Physical Geogr., Stockholm Univ., 1 Jul. 1995–  
*Senior Lecturer*, Centre for Univ. Pedagogics, Stockholm Univ., (10%), 1 Jan. 2004–2006  
*Postdoctoral Fellowship (Forskarassistent)*, Dept. of Physical Geogr., Stockholm Univ., 1 May 1995–31 Apr. 2000

*Acting Senior Lecturer*, Dept. of Physical Geogr., Stockholm Univ., 1 Jan. 1994–31 Apr. 1995

*Postgraduate Fellowship*, Dept. of Physical Geogr., Stockholm Univ., 1 Jul.–31 Dec. 1993

*Lecturer*, Dept. of Geol. and Geophys., Univ. of Minnesota, Winter quarter 1993

*Research Assistant*, Dept. of Geol. and Geophys., Univ. of Minnesota, USA, spring quarter 1988, winter and spring quarter 1989, fall, winter and spring quarter 1989–1990, fall, winter and spring quarter 1990–1991 and summer and fall quarter 1992, 1988–1992

*Teaching Assistant: Geo 1021*, Introductory Geology Laboratory, Dept. of Geol. and Geophys., Univ. of Minnesota, USA, Spring quarter 1989

*Field assistant*, Tarfala Research Station, May–Sep. 1986

*Acting Superintendent*, Tarfala Research Station, May–Jun. 1986

*Research Assistant*, Tarfala Research Station, Field season 1985

*Trainee*, Nature Conservation Unit, Gävleborg County Board, summer employment 1984

*Subject Teacher* in Mathematics/Physics/Chemistry, Björksåtraskolan, Sandviken, 1979–1980

PUBLICATION  
SUMMARY  
UPDATED:  
22 AUG., 2018

The summary below is based on public data retrieved from ResearcherID (Web of Science), Scopus and Google Scholar. Researcher ID and Scopus looks only at ISI-indexed publications whereas Google Scholar looks at everything including abstracts etc., hence the strong differences.

	ResearcherID All	Scopus All	Google Scholar	
			All	Since 2013
Publications	58	56	130	
Citations	1697	1438	3302	1504
Avg. cite	29.77	24.1	25.4	–
<i>h</i> -index	22	21	31	20
<i>i</i> 10-index	–	–	54	34

The *i*10-index is a Google Scholar specific index showing how many articles have more than 10 citations.

Please visit my [ResearcherID](#) and [Google Scholar](#) pages for updates.

FIVE MOST CITED  
PUBLICATIONS  
AND REPORTS  
[[ISI/GOOGLE SCHOLAR](#)  
[CITATIONS](#)]

<sup>22</sup>**Jansson P**, Hock R, Schneider T, 2003. The concept of glacier storage – A review. *J. Hydrol.* 282 (1–4), 116–129. [[232/437](#)]

<sup>5</sup>Iverson NR, Hanson B, Hooke RLeB, **Jansson, P.**, 1995. Flow mechanism of glaciers on soft beds. *Science.* 267 (5195), 80–81. [[163/206](#)]

<sup>27</sup>Fountain, A.G., Jacobel, R.W., Schlichting, R. and **Jansson, P.**, 2005. Fractures as the main pathways of water flow in temperate glaciers. *Nature.* 433 (7026), 618–621. [[108/168](#)]

<sup>9</sup>Hooke RLeB, Hanson B, Iverson NR, **Jansson P**, Fischer U, 1997. Rheology of till beneath Storglaciären, Sweden. *J. Glaciol.* 43 (143), 172–179. [[80/105](#)]

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- <sup>55</sup>Zemp M, Thibert E, Huss M, Stumm D, Rolstad Denby C, Nuth C, Nussbaumer SU, Moholdt G, Mercer A, Mayer C, Joerg PC, **Jansson P**, Hynek B, Fischer A, Escher-Vetter H, Elvehøy H, Andreassen LM, 2013. Reanalysing glacier mass balance measurement series. *The Cryosphere*, 7, 1227–1245, doi:10.5194/tc-7-1227-2013. [78/106 ; Open Access]
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- Cogley JG, Hock R, Rasmussen LA, Arendt AA, Bauder A, Braithwaite RJ, **Jansson P**, Kaser G, Möller M, Nicholson L, Zemp M, 2011, *Glossary of Glacier Mass Balance and Related Terms*. IHP–VII Technical Documents in Hydrology No. 86, IACS Contribution No. 2, UNESCO–IHP, Paris. [–/149]
- <sup>62</sup>Ingvander S, **Jansson P**, Brown IA, Fujita S, Sugyama S, Surdyk S, Enomoto H, Hansson M, Holmlund P, 2016. Snow particle sizes in DML, Antarctica, from sample to regional scales. *Antarct. Sci.* 28 (3), 219–231. doi:10.1017/S0954102015000589 [0]
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- <sup>60</sup>Clason CC, Coch C, Jarsjö J, Brugger K, **Jansson P**, Rosqvist G, 2015. Dye tracing for investigating flow and transport properties of hydrocarbon-polluted Rabots glaciär, Kebnekaise, Sweden. *Hydrol. Earth Syst. Sci.* 19, 2701–2715. doi:10.5194/hess-19-2701-2015 [Open Access 0]
- <sup>59</sup>Helanow C, Meierbachtol T, **Jansson P**, 2015. Correspondence: Steady state water pressures in subglacial conduits: corrections to a model and recommendations for its use. *J. Glaciol.* 61 (225), 202–204. doi:10.3189/2015JoG14J197 [1]
- <sup>58</sup>Lindbäck K, Pettersson R, Doyle SH, Helanow C, **Jansson P**, Kristensen SS, Stenseng L, Forsberg R, Hubbard AL, 2015. High-resolution ice thickness and bed topography of a land-terminating section of the Greenland Ice Sheet. *Earth Syst. Sci. Data*, 6, 331–338. doi:10.5194/essd-6-331-2014 [Open Access 3]
- <sup>57</sup>Schannwell C, Murray T, Kulesa B, Gusmeroli A, Sainteroy A, **Jansson P**, 2014. An automatic approach to delineate the cold-temperate transition surface with ground-penetrating radar (GPR) on polythermal glaciers. *Ann. Glaciol.*, 55 (67), 89–96. doi:10.3189/2014AoG67A102. [Open Access 0]
- <sup>56</sup>Dahlke HE, Lyon SW, **Jansson P**, Karlin T, Rosqvist G, 2014. Isotopic investigation of runoff generation in a glacierized catchment in northern Sweden. *Hydr. Proc.* doi:10.1002/hyp.9668 [12]
- <sup>55</sup>Zemp M, Thibert E, Huss M, Stumm D, Rolstad Denby C, Nuth C, Nussbaumer SU, Moholdt G, Mercer A, Mayer C, Joerg PC, **Jansson P**, Hynek B, Fischer A, Escher-Vetter H, Elvehøy H, Andreassen LM, 2013. Reanalysing glacier mass balance measurement series. *The Cryosphere*, 7, 1227–1245, doi:10.5194/tc-7-1227-2013. [Open Access 32]
- <sup>54</sup>Ingvander S, Brown I, **Jansson P**, Holmlund P, Johansson C, Rosqvist G, 2013. Particle size sampling and object-oriented image analysis for field investigations of snow particle size, shape and distribution. *Arct. Ant. Alp. Res.* 45 (3), 330–341. doi:10.1657/1938-4246-45.3.330 [0]

- <sup>53</sup>Gusmeroli A, Murray T, Clark RA, Kulesa B, **Jansson P**, 2013. Vertical seismic profiling of glaciers: appraising multi-phase mixing models. *Ann. Glaciol.* 54 (64), 115–123.  
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- <sup>52</sup>Booth A, Mercer A, Clark R, Murray T, **Jansson P** and Axtell C, 2013. A comparison of seismic and radar methods to establish the thickness and density of glacier snow cover. *Ann. Glaciol.* 54 (64), 73–82.  
[doi:10.3189/2013AoG64A044](https://doi.org/10.3189/2013AoG64A044) [2]
- <sup>51</sup>Moore PL, Iverson NR, Uno KT, Dettinger MP, Brugger KA, **Jansson P**, 2013. Entrainment and emplacement of englacial debris bands near the margin of Storglaciären, Sweden. *Boreas.* 42 (1), 71–83.  
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- <sup>50</sup>Ingvander S, Dahlke HE, **Jansson P** and Surdyk S, 2013. In situ sampled Snow Particle Sizes of the East Antarctic Ice Sheet and their relation to physical and remotely sensed snow surface parameters. *Ann. Glaciol.* 53 (62), 166–174.  
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- <sup>49</sup>Johansson AM, **Jansson P**, Brown I, 2013. Spatial and temporal variations of the Greenland Ice Sheet surface lake system. *J. Hydrol.* 476, 314–320.  
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- <sup>47</sup>Ingvander S, Johansson C, **Jansson P**, Pettersson R, 2012. Comparison between digital and manual methods of snow grain size determination. *Hydrol. Res.* 43 (3), 192–202.  
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- <sup>46</sup>Gusmeroli A, **Jansson P**, Pettersson R, Murray T, 2012. Twenty years of cold surface layer thinning at Storglaciären, sub-Arctic Sweden, 1989–2009. *J. Glaciol.* 58 (207), 3–10.  
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- <sup>45</sup>Moore PL, Iverson NR, Brugger KA, Cohen D, Hooyer TS, **Jansson P**, 2011. Effect of a cold margin on ice flow at the terminus of Storglaciären, Sweden: implications for sediment transport. *J. Glaciol.* 57 (201), 77–87. [6]
- <sup>44</sup>Johansson AM, Brown IA, **Jansson P**, 2010. Multi-temporal, multi-sensor investigations of supra-glacial lakes on the Greenland Ice Sheet. *ESA Special Publ.* SP-686. [0]
- <sup>43</sup>Ingvander S, Brown IA, **Jansson P**, 2010. Snow grain size variability along the JASE 2007/2008 traverse route in droning Maud Land, Antarctica, and its relation to MOA NDSI index, MERIS and MODIS satellite data. *ESA Special Publ.* SP-686. [2]
- <sup>42</sup>Koblet T, Gärtner-Roer I, Zemp M, **Jansson P**, Thee P, Haeberli W, Holmlund P, 2010. Reanalysis of multi-temporal aerial images of Storglaciären, Sweden (1959–1999) – Part 1: Determination of length, area and volume changes. *The Cryosphere.* 4, 333–343.  
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- <sup>41</sup>Zemp M, **Jansson P**, Holmlund P, Gärtner-Roer I, Koblet T, Thee P, Haeberli W, 2010. Reanalysis of multi-temporal aerial images of Storglaciären, Sweden (1959–1999) – Part 2: Comparison of glaciological and volumetric mass balances. *The Cryosphere.* 4, 345–357.  
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- <sup>40</sup>Gusmeroli A, Murray T, **Jansson P**, Pettersson R, Aschwanden A, 2010. Vertical distribution of water within the polythermal glacier Storglaciären, Sweden. *J. Geophys. Res.*,

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- <sup>39</sup>Jansson P, Linderholm HW, Pettersson R, Karlin T, Mörth C-M, 2007. Assessing the possibility to couple chemical signals in winter snow on Storglaciären to atmospheric climatology. *Ann. Glaciol.* 46, 335–341. [6]
- <sup>38</sup>Linderholm HW, Jansson P, 2007. Reconstruction of Storglaciären glacier mass balance from 1500 AD using tree-ring data. *Ann. Glaciol.* 46, 261–267.  
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- <sup>37</sup>Linderholm HW, Jansson P, Chen D, 2007. A high-resolution reconstruction of Storglaciären mass balance back to 1780/81 using tree-ring data and circulation indices. *Quat. Res.* 67 (1), 12–20.  
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- <sup>36</sup>Jansson P, Pettersson R, 2007. Spatial and temporal characteristics of a long mass balance record, Storglaciären, Sweden. *Arct. Ant. Alp. Res.* 39 (3), 432–437.  
[doi:10.1657/1523-0430\(06-041\)\[jansson\]2.0.co;2](https://doi.org/10.1657/1523-0430(06-041)[jansson]2.0.co;2). [13]
- <sup>35</sup>Pettersson R, Jansson P, Blatter H, Huwald H, 2007. Spatial pattern and stability of the cold surface layer of Storglaciären, Sweden. *J. Glaciol.* 53 (180), 99–109. [18]
- <sup>34</sup>Holmlund P, Jansson P, Pettersson R, 2005. A re-analysis of the 58 year mass balance record of Storglaciären, Sweden. *Ann. Glaciol.* 42, 389–394.  
[doi:10.3189/172756405781812547](https://doi.org/10.3189/172756405781812547) [31]
- <sup>33</sup>Jansson, P. and Linderholm, H., 2005. Assessment of combined glacier and tree-ring studies to constrain latitudinal climate forcing of Scandinavian glacier mass balances. *Ann. Glaciol.* 42, 303–310.  
[doi:10.3189/172756405781812835](https://doi.org/10.3189/172756405781812835) [5]
- <sup>32</sup>Hock, R. and Jansson, P., 2005. Modelling glacier hydrology. In: Anderson, M.G., and McDonnell, J. (eds), *Encyclopedia of Hydrological Sciences*. John Wiley and Sons, Chichester. Vol. 4, 2647–2655. [7]
- <sup>31</sup>Näslund, J.-O., Jansson, P., Fastook, J., Johnson, J. and Andersson, L., 2005. Detailed spatially distributed geothermal heat flow data for modeling of basal temperatures and melt water production beneath the Fennoscandian ice sheet. *Ann. Glaciol.* 40, 95–101. [17]
- <sup>30</sup>Fountain, A.G., Schlichting, R., Jansson, P. and Jacobel, R.W., 2005. Observations of englacial flow passages – a fracture dominated system. *Ann. Glaciol.* 40, 25–30.  
[doi:10.3189/172756405781813762](https://doi.org/10.3189/172756405781813762) [10]
- <sup>29</sup>Hock, R., Jansson, P. and Braun, L., 2005. Modelling the response of mountain glacier discharge to climate warming. In: Huber, U.M., Bugmann, H.K.M. and Reasoner, M.A. (eds), *Global Change and Mountain Regions (A State of Knowledge Overview)*, Springer, Dordrecht. 243–252.  
[doi:10.1007/1-4020-3508-X\\_25](https://doi.org/10.1007/1-4020-3508-X_25) [19]
- <sup>28</sup>Jansson, P., Rosqvist, G. and Schneider, T., 2005. Glacier fluctuations, suspended sediment flux and glacio-lacustrine sediments. *Geogr. Ann.* A 87 (1) , 37–50.  
[doi:10.1111/j.0435-3676.2005.00243.x](https://doi.org/10.1111/j.0435-3676.2005.00243.x) [19]
- <sup>27</sup>Fountain, A.G., Jacobel, R.W., Schlichting, R. and Jansson, P., 2005. Fractures as the main pathways of water flow in temperate glaciers. *Nature.* 433 (7026) , 618–621.  
[doi:10.1038/nature03296](https://doi.org/10.1038/nature03296) [96]
- <sup>26</sup>Schneider, T. and Jansson, P., 2004. Internal accumulation in firn and its significance for the mass balance of Storglaciären. *J. Glaciol.* 50 (168), 25–34. [33]

- <sup>25</sup>Pettersson, R., **Jansson, P.** and Blatter, H., 2004. Spatial variability of water content at the cold–temperate transition surface of the polythermal Storglaciären, Sweden. *J. Geophys. Res.* 109 (F2), F02009, doi:10.1029/2003JF000110. [41]
- <sup>24</sup>Pettersson, R., **Jansson, P.** and Holmlund, P., 2003. Cold surface layer thinning on Storglaciären, Sweden, observed by repeated ground penetrating radar surveys, *J. Geophys. Res.* 108 (F1), 6004, doi:10.1029/2003JF000024. [50]
- <sup>23</sup>Hedfors, J., Peyaud, V., Pohjola, V., **Jansson, P.** and Pettersson, R., 2003. Investigating the ratio of basal drag and driving stress in relation to bedrock topography during a melt season on Storglaciären, Sweden, using force budget analysis. *Ann. Glaciol.* 37, 263–268. doi:10.3189/172756403781815861 [1]
- <sup>22</sup>**Jansson, P.**, Hock, R. and Schneider, T., 2003. The concept of glacier storage – A review. *J. Hydrol.* 282 (1–4), 116–129. [165]
- <sup>21</sup>Glasser, N.F., Hambrey, M.J., Etienne, J.L., **Jansson, P.** and Pettersson, R., 2003. The origin and significance of debris-charged ridges on the surface of Storglaciären, northern Sweden. *Geogr. Ann. A* 85 (2), 127–147. doi:10.1111/1468-0459.00194 [25]
- <sup>20</sup>**Jansson, P.** and Fredin, O., 2002. Ice sheet growth under dirty conditions: implications of debris cover for early glaciation advances. *Quat. Internat.* 95/96C, 35–42. doi:10.1016/S1040-6182(02)00025-3 [6]
- <sup>19</sup>Hock, R., Johansson, M., **Jansson, P.** and Barring, L., 2002. Modelling climate conditions required for glacier formation in cirques of the Rassepautasjtjåkka Massif, northern Sweden. *Arct. Ant. Alp. Res.* 34 (1), 3–11. doi:10.2307/1552502 [8]
- <sup>18</sup>Albrecht, O., **Jansson, P.** and Blatter, H., 2000. Modelling glacier response to measured mass balance. *Ann. Glaciol.* 31, 91–96. doi:10.3189/172756400781819996 [22]
- <sup>17</sup>**Jansson, P.**, Näslund, J.-O., Pettersson, R., Richardson-Näslund, C. and Holmlund, P., 2000. Polythermal structure and debris entrainment in the terminus of Storglaciären. In: Nakawo, M., Raymond, C.F. and Fountain, A. (eds), Debris-covered glaciers. Proceedings of a workshop held at Seattle, September 2000. *IAHS Publ.* No. 264, 143–151. [4]
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- <sup>15</sup>Iverson, N.R., Baker, R.W., Hooke, R.LeB., Hanson, B. and **Jansson, P.**, 1999. Coupling between a glacier and a soft bed: I. A relation between effective pressure and local shear stress determined from till elasticity. *J. Glaciol.* 45 (149), 31–40. [38]
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- <sup>10</sup>**Jansson, P.**, 1997. Longitudinal coupling effects in ice flow across a subglacial ridge. *Ann. Glaciol.* 24, 169–174.  
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CONTRIBUTING  
AUTHORSHIPS  
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Zemp, M., (ed.), 2010. Chapter 4.2. Glaciers and ice caps. In: Voigt, T., Füssel, H.M., Gärtern-Roer, I., Huggel, C., Marty, C. and Zemp, M., *Impacts of climate change on snow, ice, and permafrost in Europe: Observed trends, future projections, and socio-economic relevance*. European Topic Centre on Air and Climate Change, Technical Paper 2010/13: 117pp. Contributing authors: Andreassen, L.M., Braun, L., Chueca, J., Fischer, A., Hagen, J.O., Hoelzle, M., **Jansson, P.**, Kohler, J., Meneghel, M., Stastny, P. and Vincent, C.

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- Cogley, J.G., Hock, R., Rasmussen, L.A., Arendt, A.A., Bauder, A., Braithwaite, R.J., **Jansson, P.**, Kaser, G., Möller, M., Nicholson, L. and Zemp, M., 2011, *Glossary of Glacier Mass Balance and Related Terms*. IHP–VII Technical Documents in Hydrology No. 86, IACS Contribution No. 2, UNESCO–IHP, Paris.
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- Jansson, P.**, 2010. *Ice sheet hydrology from observations*. Swedish Nuclear Waste Management Company, SKB Technical Report. SKB TR-10-68. 59 pp.
- Jaquet, O., Namar, R. and **Jansson, P.**, 2010. *Groundwater flow modelling under ice sheet conditions: scoping calculations*. Swedish Nuclear Waste Management Company, SKB Technical Report. SKB R-10-46.
- Jansson, P.** and Näslund, J.-O., 2009. *Spatial and temporal variations in glacier hydrology on Storglaciären, Sweden*. SKB TR-09-13, Swedish Nuclear Waste Management Company. 53 pp.
- Näslund, J.-O. (ed), Wohlfarth, B. (ed), Alexanderson, H., Helmens, K., Hättestrand, M., **Jansson, P.**, Kleman, J., Lundqvist, J., Brandefelt, J., Houmark-Nielsen, M., Kjellström, E., Strandberg, G., Knudsen, K.L., Krog Larsen, N., Ukkonen, P., and Mangerud, J., 2008. *Fennoscandian paleo-environment and ice sheet dynamics during Marine Isotope Stage (MIS) 3. Report of a workshop held September 20–21, 2007 in Stockholm, Sweden*. Swedish Nuclear Waste Management Company, SKB Technical Report. SKB R-08-79.
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IN PREPARATION

- Clason, C.C., Jarsjö, J., Rosqvist, G., LaBianca, A. and **Jansson, P.**, Glacier melt modelling and mass flux of hydrocarbon pollutants on Rabots Glacier, Kebnekaise.
- Kohler, J., **Jansson, P.**, Messerli, A., Lappégard, G., Hagen, J.O., Brown, G., Karlöf, L., Moore, J. and Andreassen, L.M., Controlled massive injection of water affects drainage system and ice flow at Engabreen, northern Norway. *J. Glaciol.*

INTERNATIONAL  
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- Thomas Schneider, Physical Geography, Stockholm

## PHD STUDENTS

### *In Progress*

- Co-advisor, Watts, Hannah: *Near-surface geophysical and sedimentological methods in the interpretation of glacial environments*

### *Defended*

- Advisor, Andrew Mercer (2018): *Accuracy of methods and their implication for monitoring and modelling regional glacier mass balance changes*
- Advisor, Christian Helanow (2017): *Basal boundary conditions, stability and verification of glaciological numerical models*
- Advisor, Susanne Ingvander (2011): *Spatial and temporal snow accumulation patterns along an ice divide in Dronning Maud Land, Antarctica*
- Advisor, Thomas Schneider (2001): *Hydrology of the firn area of a polythermal valley glacier*
- Co-advisor, A. Malin Johansson (2012): *Remote sensing of supra-glacial lakes on the west Greenland Ice Sheet*
- Co-advisor, A. Britta K. Sannel: *Stability of peat plateaus in arctic and subarctic environments*
- Co-advisor, Mattias de Woul (2008): *Modelling the response of glaciers to climate change*
- Co-advisor, Håkan Grudd (2006): *Dendroclimatological reconstructions of past climates in Northern Swedish Lapland*
- Co-advisor, Ola Fredin (2004): *Mountain centered icefields in northern Scandinavia*
- Co-advisor, Rickard Pettersson (2004): *Dynamics of the cold surface layer on the polythermal Storglaciären*
- Co-advisor, Anders Clarhäll (2002): *Glacial erosion zones – geomorphological examples from Scandinavia Canada*
- Co-advisor, Björn E. Gunnarsson (2002): *Past climate variability inferred from tree rings. Dendroclimatological investigations made on subfossil pine from peat and lake sediments*
- Co-advisor, Hans W. Linderholm (2001): *Late Holocene climate variability in Scandinavia*
- Co-advisor, Cecilia Richardson-Näslund (2001): *Spatial variations in glacial physical properties and snow accumulation – radar studies in Antarctica and Scandinavia – methods and applications*
- Co-advisor, Clas Hättestrand (1998): *Ribbed moraines and Fennoscandian paleoglaciology*
- Co-advisor, Arjen P. Stroeven (1996): *Late Tertiary glaciations and climate dynamics in Antarctica: Evidence from the Sirius Group, Mount Fleming, Dry Valleys*

## MS STUDENTS

### *Defended*

- Carl Anton Wahlström (2016): *Response of a dying ice cap, Riukojietna, Northern Sweden, to climate change*
- Moa Hamré (2016): *Glacier change in Sweden from the end of 'Little Ice Age' to 2008 using orthophotos and DEMs*
- Lisa Kreitmeier (2015): *Analysis of high frequency ground penetrating radar measurements in comparison to detailed snow profiles on Antarctic snow*

EXAMINATION  
TASKS

- Pia Eriksson (2014): *Meteorological differences between Rabots glaciär and Storglaciären and its impact on ablation*
- Evaluation and approval of 60 PhD thesis as Subject responsible in Physical Geography at Stockholm University, 2008–2018
- External thesis evaluation – Christoph Klug: *High resolution remote sensing of the mountain Cryosphere – An approach to fill the gaps between in-situ measurements and modelling*. Faculty of Geo- and Atmospheric Sciences, Univ. of Innsbruck, Austria, 15 Feb., 2018
- Member of PhD examination committee – Sergey Marchenko: *Subsurface fluxes of mass and energy at the accumulation zone of Lomonosovfonna ice cap, Svalbard*. Dept. of Geosciences, Uppsala Univ., Uppsala, Sweden, 19 Jan., 2018
- Member of PhD examination committee – Charalampos Charalampidis: *Climatology and firn processes in the lower accumulation area of the Greenland ice sheet*. Dept. of Geosciences, Uppsala Univ., Uppsala, Sweden, 10 Jun., 2016
- Member of examination committee – Pierre-Marie Lefevre: *Subglacial Processes and Subglacial Hydrology*. Univ. of Oslo, Oslo, Norway, Feb., 2016
- External thesis evaluation – Rainer Prinz: *Climatic controls and climatic proxy potential from glacier retreat on Lewis Glacier, Mt Kenya*. Faculty of Geo- and Atmospheric Sciences, Univ. of Innsbruck, Austria, 9 Oct., 2015
- Member of PhD examination committee – Agnes Jane Soto Gomez: *Geographical distribution of disasters caused by natural hazards in data-scarce areas*. Dept. of Geosciences, Uppsala Univ., Uppsala, Sweden, 9 Oct., 2015
- Member of PhD examination committee – Carmen Paulina Vega Riquelme: *Nitrate stable isotopes and major ions in snow and ice from Svalbard*. Dept. of Geosciences, Uppsala Univ., Uppsala, Sweden, 27 May, 2014
- Opponent for PhD examination – Onni Järvinen: *Annual cycle of the active surface layer in western Dronning Maud Land, Antarctica*. Dept. of Physics, Helsinki Univ., Helsinki, Finland, 27 Sep., 2013
- External thesis evaluation – Kay Helfricht: *Analysis of the spatial and temporal variation of seasonal snow accumulation in Alpine catchments using airborne laser scanning*. Faculty of Geo- and Atmospheric Sciences, Univ. of Innsbruck, Austria, 25 Aug., 2013
- Member of PhD examination committee – Nils Sundström: *Improving snow water equivalent estimates with ground penetrating radar by measuring on multiple channels*. Luleå Technical Univ., Luleå, Sweden, 17 Dec., 2012
- Opponent for PhD examination – Liss Andreassen: *Glacier variations in Norway - Measurements and modelling*. Univ. of Oslo, Oslo, Norway, 18 Dec., 2008
- PhD thesis examiner – Shavawn Donoghue: *Changes in the morphology, mass balance, and dynamics of Brown Glacier, Heard Island, with comparison to the surrounding sub-Antarctic Islands*. Univ. of Tasmania, Hobart, Australia, 25 Jul., 2008
- Member of PhD examination committee – Andy Aschwanden: *Mechanics and thermodynamics of polythermal glaciers*. ETH-Zürich, Zürich, Switzerland, 25 Jun., 2008
- Member of PhD examination committee – Bradley Goodfellow: *Relict non-glacial surfaces and autochthonous blockfields in the northern Swedish mountains*. Dept. of Physical Geography and Quaternary Geology, Stockholm Univ., Stockholm, Sweden 5 Jun., 2008

- Member of Licentiate examination committee – Hérnan de Angelis: *Paleo ice streams in northern Canada*. Dept. of Physical Geography and Quaternary Geology, Stockholm Univ., Stockholm, Sweden 20 May, 2006
- Member of PhD examination committee – Johan Bonow: *Paleosurfaces and paleovalleys on north Atlantic previously glaciated passive margins – reference forms for conclusions on uplift and erosion*. Dept. of Physical Geography and Quaternary Geology, Stockholm Univ., Stockholm, Sweden, 26 May, 2004
- Member of Licentiate examination committee – Per Klingbjer: *Paleoklimat och recenta glaciärer i norra Skandinavien*. Dept. of Physical Geography and Quaternary Geology, Stockholm Univ., Stockholm, Sweden, 20 Feb., 2001
- Member of Licentiate examination committee – Krister Jansson: *Glacial geomorphology of central northern Quebec-Labrador, Canada*. Dept. of Physical Geography, Stockholm Univ., Stockholm, Sweden, 31 May, 1999
- Member of Licentiate examination committee – Malin Stenberg: *Kemiska studier av snö, firn och is från Antarktis och Kaukasus*. Dept. of Physical Geography, Stockholm Univ., Stockholm, Sweden, 8 Oct., 1996
- Examiner, Licentiate examination – Johan Kuylenstierna: *Datering av deglaciation, Holocena glaciärvariationer och trädgränsvariationer*. Dept. of Physical Geography, Stockholm Univ., Stockholm, Sweden, 15 Apr., 1996
- Examiner, Licentiate examination – Arjen Stroeven: *Sirius Group tills on Mt Fleming, South Victoria Land, Antarctica: A test of the Late Neogene East Antarctic Ice Sheet collapse hypothesis*. Stockholm Univ., Stockholm, Sweden, 7 Jun., 1994
- Examiner, 32 undergraduate theses, 2000–2004
- Editor-in-Chief, *Geografiska Annaler: Series A, Physical Geography*, an international Wiley-Blackwell journal in Physical Geography, 2010–
- Chief Editor, *Annals of Glaciology* 50: Workshop on the Methods of Mass Balance Measurements and Modelling, Skeikampen, Norway, Mar., 2008
- Scientific Editor, *Zeitschrift für Gletscherkunde und Glazialgeologie* 2005–
- Guest Editor, *Geografiska Annaler: Series A, Physical Geography* 87 (1) special issue on Climate Change and Variability, 2005
- Guest Editor, *Geografiska Annaler: Series A, Physical Geography* 81 (4) special issue on Workshop on the Methods of Mass Balance Measurements and Modelling, 1998, Tarfala Research Station, Sweden, 10–12 Aug., 1999
- Scientific Editor, *Annals of Glaciology* 24: Changing glaciers, Fjaerland, Norway, Jun., 1996
- Referee, 62 papers for international journals (*Science, J. Geophys. Res., Geophys. Res. Lett., J. Glaciol., Ann. Glaciol., Quat. Sci. Rev., The Holocene, Arct. Ant. Alp. Res., Hydr. Proc., AGU Geophys. Mon., IAHS Publ., Geomorphol., Geogr. Ann., Norsk Geogr. Tidskr., Polar Res., Ambio*) 1995–
- Referee, *National Science Foundation* (NSF, USA) 2000–
- Referee, *Natural Environment Research Council* (NERC, UK) 2000–
- Editor, Dept. of Physical Geogr., Stockholm Univ., Research Report Series and Dissertation series. 1994–2000

EDITORSHIPS,  
SCIENTIFIC  
PUBLICATIONS  
AND APPLICATIONS  
REVIEW TASKS

ACADEMIC  
REVIEWS

- Evaluation for Full Professor, Michael A. O'Neal, Univ. of Delaware, USA 2017
- Position (Første amanuensis/Professor) in glaciology, UNIS, Norway, 2017
- Position (Første amanuensis/Professor) in glaciology, UNIS, Norway, 2016
- Evaluation, Professorship in Geography with emphasis on Climate, Justus-Liebig-Universität Giessen, Germany 2007
- Evaluation for Full Professor, Keith A. Brugger, Univ. of Minnesota, Morris, USA 2006
- Evaluation for Associate Professorship for Andrew Fountain, Portland State Univ., USA 2000

MERITING  
ACADEMIC  
MISSIONS

- Editor-in-Chief, *Geografiska Annaler: Series A, Physical Geography*, an international Wiley-Blackwell journal in Physical Geography, 2010–
- Vice President, Swedish Society for Anthropology and Geography (SSAG) 2008–2009
- Vice President, International Association of Cryospheric Sciences (IACS) of the International Union of Geodesy and Geophysics (IUGG) 2007–2011
- Convener, Workshop J1: Glacier mass balance and atmospheric circulation. Int. Association of Meteorology and Atmospheric Science (IAMAS) General Assembly 2005, Beijing, China, 2–11 Aug.
- Secretary, International Union of Geodesy and Geophysics Union Commission on Cryospheric Sciences (IUGG–UCCS; formerly ICSI) 2004–2007
- Secretary, International Commission on Snow and Ice (ICSI) of the International Association of Hydrological Sciences (IAHS) 2003–2004
- Instructor, UNESCO, HKH–FRIEND., New Delhi, India 2002
- Named Exceptional Reviewer in 2000 by the Scientific Editors of *J. Glaciol.*
- Member, Advisory Board for EU-project: Development of Operational Monitoring System for European Glacial Areas – synthesis of earth observation data of the present, past and future. 2000–2003
- Organiser, Int. Series A, Physical Geography Glaciological Soc. – Nordic Branch Meeting 1998, Stockholm, Sweden, 6–7 Nov.
- Co-organiser, Int. Glaciological Soc. – Glaciers and the Glaciated Landscape 1998, Kiruna, Sweden, 17–20 Aug.
- Local Organiser and co-convenor, Workshop on the Methods of Mass Balance Measurements and Modelling, 1998, Tarfala Research Station, Sweden, 10–12 Aug.
- Co-organiser, Int. Glaciological Soc. – Nordic Branch Meeting 1995, Stockholm, Sweden, 25–26 Nov.
- Organiser and chairman, Midwest Glaciologist Meeting (annual symposia) first assembly, 1992
- Swedish correspondent, Int. Glaciological Soc. news bulletin, *ICE*, 1994–2003

MERITING  
ACADEMIC  
ADMINISTRATIVE  
MISSIONS

- Subject responsible in Physical Geography at the Dept. of Physical Geogr. and Quaternary Geol., Stockholm Univ., 2008–2018
- Board member of the Dept. of Physical Geogr. and Quaternary Geol., Stockholm Univ., 2001–2002
- Course director for upper level geoscience courses at the Dept. of Physical Geogr. and Quaternary Geol., Stockholm Univ., 2001–2002
- Examiner in Geosciences, the Dept. of Physical Geogr. and Quaternary Geol., Stockholm Univ., 2000–2004
- Board member of the Dept. of Physical Geogr., Stockholm Univ., 1999–2000
- Course coordinator for geoscience courses at the Dept. of Physical Geogr., Stockholm Univ., 1999–2000
- Member of the Science and Mathematics Faculty, working group on information issues, 1996–2000
- Member of the Computing Committee at the Dept. of Geol. and Geophys., Univ. of Minnesota, USA, 1989–1990, 1990–1991, and 1991–1992