

MSc Margareta Johansson

PhD-student

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*Research Interests and Projects*

I am working on the interactions between changes in permafrost and vegetation in a subarctic ecosystem as a result of climate change in the Abisko area, northernmost Sweden. I am looking at the present, past and future permafrost distribution in the catchment area and also how the vegetation is changing, partly as a result of climate change itself, but also due to the change from frozen to unfrozen ground where permafrost is disappearing.

*Selected Publications*

**Johansson, M.**, T. R. Christensen, H.J. Akerman and T. V. Callaghan. 2006. What determines the current presence or absence of permafrost in the Torneträsk region, a subarctic landscape in Northern Sweden? *Ambio*, **35** (4): 190-197.

Kohler, J., O. Brandt, **M. Johansson** and T. V. Callaghan, 2006. A long-term Arctic snow depth record from Abisko, northern Sweden, 1913-2004. *Polar Research*, **25**: 91-113.

Callaghan, T. V., L. O. Björn, Y. Chernov, F. S. Chapin, T. R. Christensen, B. Huntley, R. A. Ims, S. Jonasson, **M. Johansson**, D. Jolly, N. Matveyeva, N. Panikov, W. C. Oechel, G. R. Shaver, 2005. Tundra and Polar Desert Ecosystems - ACIA Chapter 7. *In: Arctic Climate Impacts Assessment: Technical report to the Arctic Council of Ministers*. Cambridge University Press.

Callaghan, T. V., **M. Johansson**, O. W. Heal, N. R. Sælthun, L.J. Barkved, N. Bayfield, O. Brandt, R. Brooker, H. H. Christiansen, M. C. Forchhammer, T. T. Høye, O. Humlum, A. Järvinen, C. Jonasson, J. Kohler, B. Magnusson, H. Meltofte, L. Mortensen, S. Neuvonen, I. Pearce, M. Rasch, L. Turner, B. Hasholt, E. Huhta, E. Leskinen, N. Nielsen and P. Siikamäki, 2004. Environmental Changes in the North Atlantic Region: SCANNET as a collaborative approach for documenting, understanding and predicting changes. *Ambio Special Report*, **13**: 35-58.

Hock, R., **M. Johansson**, P. Jansson and L. Barring, 2002. Modelling climate conditions required for glacier formation in cirques of the Rassepautasjtjåkka massif, northern Sweden. *Arctic and Alpine Research*, **34**: 3-11.

### *Appointments*

- 2005-01 - Employed as a PhD student at the Department of Physical Geography and Ecosystem Analyses at Lund University and the Royal Swedish Academy of Sciences' Abisko Scientific Research Station (75% at Lund University and 25% at RSAS)
- 2001-07—2004-12 Employed by the Royal Swedish Academy of Sciences' at the Abisko Scientific Research Station to run the SCANNET Secretariat (Scandinavian North European Network of Terrestrial Field Bases) and to work as research assistant for Prof. Terry Callaghan with the work related to the Arctic Climate Impact Assessment (ACIA).
- 2001-06 Field work at North-GRIP, conducting GPS measurements on the ice sheet.
- 2000-05 - 2001-07 Employed by the Royal Swedish Academy of Sciences' at the Climate Impact Research Centre, in Abisko and Kiruna, to run two secretariats: the IASC-MAGICS and the SCANTRAN Secretariat.
- 2000-04 - 2000-05 Research Assistant at the Tarfala Glaciological Research Station.
- 2000-02 Employed by the Stockholm University, Department of Physical Geography to conduct GIS-work.

### *Education*

2000 MSc, Geosciences, Lund University

### *Other assignments*

- 2001 – Running the SCANNET Secretariat [www.scannet.nu](http://www.scannet.nu)
- 2006 – Co-coordinating the Permafrost Young Researchers Network (PYRN) [www.pyrn.org](http://www.pyrn.org)