

Dr. Hugues Lantuit

Nationality: French
31 years old
M.Sc., Ph.D.

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EDUCATION

- | | |
|---|-----------|
| Alfred Wegener Institute for Polar and Marine Research, Potsdam, Germany
PhD, Geosciences
<i>Magna Cum Laude</i> | 2005-2008 |
| McGill University, Montréal, Canada
M.Sc., Geography | 2002-2004 |
| Université Paris7 Denis Diderot, Paris, France
Maîtrise, Physical Geography
<i>Très bien distinction</i>
<i>Exchange at McGill University, Montréal (2001-2002)</i> | 1998-2002 |

RESEARCH INTERESTS

My research is primarily focused on the impacts of climate change on *Arctic coasts*. It involves the use of geospatial tools, including *satellite imagery*, *Geographical Information Systems*, and *photogrammetry* to quantify and characterize coastal erosion occurring in *permafrost regions*. It focuses on the *geochemical*, *sedimentological* and *geotechnical* characterization of coastal sections, with the objective to estimate the release of organic matter to the nearshore zone. The goal of this research is also to assess potential hazards associated with increasing erosion along Arctic coasts, in particular nearby Arctic Inuit coastal communities, and to better understand the role of the process in the Arctic Carbon cycle.

REFERENCES

- Dr. Volker Rachold
Executive secretary, International Arctic Science Committee (IASC), Potsdam, Germany
iasc@iasc.info
- Prof. Wayne Pollard
Professor, Dept. of Geography, McGill University, Montréal, Canada
pollard@geog.mcgill.ca
- Prof. Dr. Hans-Wolfgang Hubberten
Director, Alfred Wegener Institute, Research section Potsdam, Potsdam, Germany
Hans-Wolfgang.Hubberten@awi.de

• Dr. David Carlson
Director, International Polar Year International Program Office, Cambridge, UK
ipy.djc@gmail.com

• Prof. Monique Fort
Professor, Dept. of Geography, Université Paris7 Denis Diderot, Paris, France
fort@paris7.jussieu.fr

LANGUAGES

Fluent English, French, and German

AWARDS

CSA-ESA (Canadian Space Agency-European Space Agency) Award for best overall student poster and best oral presentation at the 55th IAC (International Astronautical Conference), Vancouver, Canada, 4-9 October 2004 [Lantuit, H., Haltigin, T., Pollard, W. H.. Remote detection of ground ice in polar desert environments: A multi-sensor approach]

Finalist and 3rd prize, [RIGID: Resistivity instrument for Ground Ice Detection]. Aurora Student Design Contest, European Space Agency, Barcelona, Spain, 2003.

Government of Canada Award, International Council for Canadian Studies, 2003

Warren fellowship in GIS, McGill University, 2003

Warren fellowship in GIS, McGill University, 2002

Student Stipend, McGill University, 2002

Volunteer of the year, McGill International Students Network, 2002

Volunteer of the year, McGill International Students Network, 2001

PROFESSIONAL ACTIVITIES

Director, *International Permafrost Association Secretariat*, 2008-present

Member, Initiating Group, *Sustaining Arctic Observing Networks (SAON)*, 2008-present

Executive Coordinator and founder, *Permafrost Young Researchers Network (PYRN)*, 2005–2009

Vice-president and co-founder, *Association of Polar Early Career Scientists (APECS)*, 2006-2008

Steering Committee member, European Science Foundation *SEDIFLUX (Sedimentary Source-to-Sink-Fluxes in Cold Environments)*, 2005-2007

Steering Committee member, *SEDIBUD, IAG Working Group on Sediment Budgets in Cold Environments*, 2007-2008

Member, Scientific organizing committee, Arctic Science Summit Week. Bergen, Norway, March 2009.

Member, Scientific organizing committee, SCAR/IASC Open Science Conference, St. Petersburg, Russia, July 2008.

Member, Arctic Ocean Science Board New Research Generation Program Management Committee. 2008-present

Organizer and Scientific Organizing Committee member, 2nd IMPETUS training workshop: "Techniques in Polar Ocean Observation and Monitoring", St.-Petersburg, Russia, 19-22 2008.

Organizer and Scientific Organizing Committee member, 1st training workshop on Permafrost Research Methods, St.-Petersburg, Russia, 29 November-2 December 2007.

Steering Committee member, International Polar Year International Youth Steering Committee (2005-2007)

Member, International Polar Year subcommittee on Education and Outreach, 2006-2009

Peer Reviewer:

Journals

Geophysical Research Letters
Permafrost and Periglacial Processes
Polar Research

Grant Programs

Academia Europaea
European Science Foundation

Conference Proceedings

Ninth International Conference on Permafrost

Session Chair, "*Coastal Environments as a Link Between Land and Sea in the Arctic*" Arctic Science Summit Week science symposium, Bergen, Norway, March 2009.

Session Chair, "*Remote Sensing of Changes in Terrestrial Permafrost*" SCAR/IASC Open Science Conference, St. Petersburg, Russia, July 2008.

Session Chair, "*Evolving Coastal, Near shore and Shelf Processes in the Polar Regions*" SCAR/IASC Open Science Conference, St. Petersburg, Russia, July 2008.

Session Chair, Poster session "*Sedimentary Source-to-Sink-Fluxes in Cold Environments*" and " 3rd SEDIFLUX workshop, Trondheim, Norway, October 29-November 2 2007

Contributor, Integrated Global Observing Strategy (IGOS) Cryosphere Theme and subtheme 9: Permafrost and Frozen Ground

Organizer (with W. Pollard and N. Couture), 5th Arctic Coastal Dynamics International Workshop, Montréal, Canada, October 13-16 2004

Moderator, Panel "Achievements and perspectives in the fourth International Polar Year", Forum Polaire, Paris, 20 March 2009

Panelist, "Climatic predictions and perennial ice environments – Challenges for the future », Polar Forum, Berlin, 2 November 2007.

Panelist, "International Collaboration session", Global Scientific Challenges: Perspectives from Young Scientists, An international conference celebrating 75 years of ICSU, Lindau, Germany, April 4-5, 2007

Observer, German International Polar Year National Committee

President and founder, Geography Graduate Society (GGS), McGill University, 2003-2004

Manager, McGill University Dept. of Geography lecture series "Geospectives" (2003-2004)

Professional Memberships:

American Geophysical Union, 2008-present
Association of American Geographers, 2005–2007
Cryosphere Specialty Group, 2005–2007
European Geophysical Union, 2003–2005
Groupe Francais de Géomorphologie, 2002-present
Arcticnet, Canadian Network of Excellence 2004-present

FUNDED PROPOSALS:

The Environmental dynamics of the western Canadian Arctic during the natural climate oscillations of the late quaternary, German Science Foundation. Hugues Lantuit (**Principal Investigator**) & Michael Fritz (co-PI) – **25,432 €**

High resolution quaternary records from eastern Beringia (western Canadian Arctic), BMBF: Federal Ministry of Education and Research. Hugues Lantuit (**Principal Investigator**) & Michael Fritz (co-PI) – **32,348 €**

Past, Present and future climate change effects on permafrost landscapes from the western Canadian Arctic, BMBF: Federal Ministry of Education and Research. Hugues Lantuit (**Principal Investigator**) & Michael Fritz (co-PI) – **6,632 €**

LedaM (Lena Delta Morphology), European Space Agency ALOS program. Hugues Lantuit (**Principal Investigator**), Guido Grosse & Lutz Schirrmeister (co-PIs) – **200,000 €** 2006-2008

SENSE (Shoreline Erosion of North-Siberian Environments), OASIS, Optimising Access to Spot Infrastructure for Science, 6th Framework Programme/Research Infrastructures/Transnational Access of the European Commission. Hugues Lantuit (**Principal Investigator**). – **52,000 €** 2006-2007

ISACSA (Identification of Stable and Active Coastal Slumps in the Arctic), OASIS, Optimising Access to Spot Infrastructure for Science, 6th Framework Programme/Research Infrastructures/Transnational Access of the European Commission. Hugues Lantuit (**Principal Investigator**). – **14,000 €** 2006-2007

ACCO/Net (Arctic Coastal Observatory Network), European Space Agency IPY Announcement of opportunity. Paul Overduin (Principal Investigator), Hugues Lantuit (**co-PI**), Guido Grosse (co-PI), ~**300,000€** 2007-2009

PUBLICATIONS

- Book editor

Pollard, W.H., Couture, N., **Lantuit, H.** and Rachold, V. (eds.) *Arctic Coasts - Circum-Polar Processes and Dynamics*. McGill-Queens University Press. In press

- Peer-reviewed book chapter

Lantuit, H., Steenhuisen, F., Graves-Gaylord, A., Ødegård, R. and Atkinson, D. The Arctic Coastal Dynamics geospatial framework. In: Pollard, W.H., Couture, N., Lantuit, H. and Rachold, V. (eds.) *Arctic Coasts - Circum-Polar Processes and Dynamics*. McGill-Queens University Press. In press

Lantuit, H., Overduin, P., Solomon, S., Mercier, D. Coastline evolution in polar systems using remote sensing. In: Maanan, M. and Robin, M. (eds.) *Geomatic solutions for coastal environments*. Nova Science publishers. Accepted

▪ Peer-reviewed articles

Lantuit, H., Rachold, V., Pollard, W.H., Steenhuisen, F., Ødegård, R., Hubberten, H.-W. 2009. Towards a calculation of organic carbon release from erosion of Arctic coasts using non-fractal coastline datasets, *Marine Geology*, 257(1-4), 1-10.

Lantuit, H., Pollard, W. H. 2008. Fifty years of coastal erosion and retrogressive thaw slump activity on Herschel Island, southern Beaufort Sea, Yukon Territory, Canada. *Geomorphology*, 95(1/2), 84–102

Lantuit, H., Pollard, W. H. 2005. Temporal stereophotogrammetric analysis of retrogressive thaw slumps on Herschel Island, Yukon Territory, *Natural Hazards and Earth System Sciences*, 5, 413-423.

▪ In preparation / accepted

Couture, N., Pollard, W. H., Olynyk, D., **Lantuit, H.** 2008. Physical threats to cultural resources and infrastructure on Herschel Island, Yukon, Canada, *Polar Research*. Submitted

Lantuit, H., Atkinson, D., Rachold, V., Grigoriev, M., Grosse, G., Hubberten, H. –W. 1951-2006 erosion of the ice-rich permafrost coasts of the Bykovsky Peninsula. In preparation

Lantuit, H., Pollard, W.H., Couture, N., Schirrmeister, L., Meyer, H., Hubberten, H. –W. Current and past retrogressive thaw slump activity detection on the Yukon Coastal Plain and Herschel Island, Yukon Territory, Canada. In preparation

PEER-REVIEWED PROCEEDINGS AND THESES

Lantuit, H., Overduin, P. P., Couture, N., Ødegård, R. S., Sensitivity of Coastal Erosion to Ground Ice Contents: An Arctic-Wide Study Based on the ACD classification of Arctic coasts. 2008. Proceedings of the Ninth International Conference on Permafrost

Grosse, G., Romanovsky, V., Walter, K., Morgenstern, A., **Lantuit, H.,** Zimov, S. Thermokarst Lakes: High-Resolution Distribution and Temporal Changes at Three Yedoma Sites in Siberia. 2008. Proceedings of the Ninth International Conference on Permafrost

Morgenstern, A., Ulrich, M., Guenther, F., Roessler, S., **Lantuit, H.** 2008. Combining ALOS data and field investigations for the reconstruction of thermokarst evolution in the North Siberian Lena Delta, Proceedings of the ‘Second ALOS PI 2008 Symposium’, ESA SP-664 (CD-ROM), ESA Communication Production Office, European Space Agency, Noordwijk, The Netherlands.

Lantuit, H. 2008. The modification of arctic permafrost coastlines = Die Veränderung der arktischen Permafrostküstenlinien, Unpublished PhD thesis, University of Potsdam, 120 pp.

Lantuit, H. 2005. Mapping permafrost and ground ice related coastal erosion on Herschel Island, southern Beaufort Sea, Yukon Territory, Canada, Unpublished MSc thesis, McGill University, 144 pp.

NON-PEER-REVIEWED PUBLICATIONS & REPORTS

Forbes, D., Couture, N., **Lantuit, H.**, Nixon, C. 2008. SAON Coastal break-out group report, Report from the second SAON workshop to IASC and AMAP, 10 pp.

Grosse, G., **Lantuit, H.** 2008. PYRN-Bib 3.1: The Permafrost Young Researchers Network Bibliography of Permafrost-Related Theses, Permafrost Young Researchers Network, 3.1, 49 pp.

Jorgenson, T., **Lantuit, H.** 2008. Remote Sensing Working Group report, Berichte zur Polar- und Meeresforschung, 576, 32-38.

Lantuit, H., Lamoureux, S., Beylich, A. 2007. Integration and synthesis of cold environment sediment flux data. In: Beylich, A.A. & J. Warburton (Eds.) Analysis of Source-to-Sink-Fluxes and Sediment Budgets in Changing High-Latitude and High-Altitude Cold Environments. SEDIFLUX Manual. First Edition. NGU Report 2007., 101-116.

Christiansen, H., Prick, A., **Lantuit, H.** 2007. Report from the International Permafrost Association: education and outreach for the International Polar Year, Permafrost and Periglacial Processes, 18, 209-213., doi:10.1002/ppp.590

Warburton, J., Beylich, A. A., Etienne, S., Eitzelmüller, B., Gordeev, V. V., Käyhkö, J., **Lantuit, H.**, Russell, A. J., Sæmundsson, Th., Schmidt, K. -H., Tweed, F. S. 2007. Sediment budgets and rates of sediment transfer across cold environments in Europe: Introduction and background to the European Science Foundation network "Sedimentary Source-to-Sink fluxes in cold environments (SEDIFLUX)", Geografiska Annaler: Series A, Physical Geography, 89, 1-3, 89, 1-3., doi:10.1111/j.1468-0459.2007.00303.x

Lantuit, H., Grigoriev, M. N., Grosse, G. and Ulrich, M. 2007. Studies of oriented lakes and thermokarst depressions. Berichte zur Polar- und Meeresforschung (Reports on Polar and Marine Research), 550, 87-99.

Lantuit, H. and Schneider, W. 2007. Subsurficial and bathymetrical Ground Penetrating Radar (GPR) Investigations. Berichte zur Polar- und Meeresforschung (Reports on Polar and Marine Research), 550, 125-131.

Rachold, V., **Lantuit, H.**, Couture, N., Pollard, W. H. (Eds.) 2005. Arctic Coastal Dynamics - report of the 5th International Workshop, McGill University, Montreal, Canada, 13-16 October 2004., Reports on Polar and Marine Research, 506, 143p.

Lantuit, H., Couture, N., Pollard, W. H., Haltigin, T., De Pascale, G., Budkewitsch, P. 2005. Short-term evolution of coastal polycyclic retrogressive thaw slumps on Herschel Island, Yukon Territory, Berichte zur Polar- und Meeresforschung (Reports on Polar and Marine Research), 506, 72-75.

Lantuit, H., Couture, N., Pollard, W. H. 2004. A volumetric analysis of long-term coastal erosion on Herschel Island, Yukon Territory : Preliminary results, Berichte zur Polar- und Meeresforschung (Reports on Polar and Marine Research), 482, 33-37.

Lantuit, H., Pollard, W. H. 2003. Remotely sensed evidence of enhanced erosion during the 20th Century on Herschel Island, Yukon Territory, Berichte zur Polar- und Meeresforschung (Reports on polar and Marine Research), 443, 54-59.

INVITED PRESENTATIONS

Forbes, D., **Lantuit, H.**, Rachold, V., Kremer, H., Floesser, G. (2009). State of the Arctic Coast 2009: Scientific Review and Outlook, 10th Arctic Science Summit Week, 23-28 March 2009, Bergen, Norway.

- Lantuit, H.** 2009. Permafrost and Climate Change, Deutsch-französisches Wissenschaftsforum - Forum des Sciences franco-allemand, 17-22 March, Paris, France.
- Lantuit, H.** 2008. Arctic Research on the international stage, Arctic Change Conference, 9-12 December 2008, Quebec City, Canada.
- Lantuit, H.** 2008. Polar Acronyms - Everything you don't want to know about polar science, 2nd IMPETUS workshop: Techniques in Polar Ocean Observation and Monitoring, St. Petersburg, Russia, 19-22 November 2008.
- Lantuit, H.** (2008). Permafrost young researchers gets their hands dirty: The PYRN-Thermal State of Permafrost IPY project, Arctic Change Conference, 9-12 December 2008, Quebec City, Canada.
- Lantuit, H.** 2008. German contribution to Sustaining Arctic Observing Networks (SAON). 2nd Sustaining Arctic Observing Networks (SAON) workshop, 9-11 April 2008. Edmonton, Canada
- Lantuit, H.** 2008. Responding to Change on Arctic Coasts – Circumpolar State and Capacity Assessment. Arctic Science Summit Week, 26 March – 2 April 2008, Syktyvkar, Russia
- Lantuit, H.** 2007. Coastal permafrost and Arctic Coastal Dynamics: Results and experiences. German-French-Quebecer 2007 Science Forum, 2-3 November 2007, Berlin, Germany.
- Lantuit, H.** 2007. The Permafrost Young Researchers Network (PYRN): Successes, challenges, and perspectives, Global Scientific Challenges: Perspectives from Young Scientists - An international Conference celebrating 75 years of ICSU - 4-6 April 2007, Lindau, Germany.
- Lantuit, H.** 2007. The Permafrost Young Researchers Network (PYRN): Successes, challenges, and perspectives within the APECS framework, Arctic Science Summit Week, 14-20 March 2007, Hanover, New Hampshire, USA.

CONTRIBUTED ORAL PRESENTATIONS

- Lantuit, H.,** Overduin, P. P., Pollard, W., Grigoriev, M., Couture, N., Atkinson, D., Hubberten, H. - W., Grosse, G. 2009. An update on circumarctic rates of coastal erosion, Arctic Science Summit Week, 23-28 March 2009, Bergen, Norway.
- Lantuit, H.,** Overduin, P. P., Couture, N., Ødegård, R. 2009. The first circumarctic map on coastal erosion, Arctic Science Summit Week, 23-28 March 2009, Bergen, Norway.
- Hubberten, H. - W., Overduin, P. P., **Lantuit, H.,** Romanovskii, N. N., Grigoriev, M. 2009. Evolution and current state of sub-sea permafrost and the zone of gas-hydrate stability in rifts on the Arctic shelf of eastern Siberia, 10th Arctic Science Summit Week, 22-28 March 2009, Bergen, Norway.
- Atkinson, D., Ogorodov, S., **Lantuit, H.** 2008. Erosion of permafrost coasts in the Arctic: mechanisms and trends. First International Symposium on the Arctic Research (ISAR-1), 4-6 November 2008, Tokyo, Japan.
- Lantuit, H.,** Atkinson, D. Grigoriev, M., Rachold, V., Grosse, G., Hubberten, H.-W. 2008. Coastal erosion and storminess evolution on Bykovsky Peninsula, Southern Laptev Sea, Russia. 23. Internationale Polartagung, 10-14 March 2008, Münster, Germany
- Lantuit, H.,** Rachold, V., Kruse, J. -E. 2005. How much is how much? The variation of coastal erosion with scale, Third SEDIFLUX science meeting, University of Durham, Durham, UK, December 15-19.

Kruse, J. -E., **Lantuit, H.**, Rachold, V. 2005. Not just a matter of scale: measurement and comparison of coastline lengths derived from WVS, Landsat and Corona datasets for representative coast sections of the Lena Delta, 2nd International Alfred Wegener Symposium, Bremerhaven, Germany, 30 October - 02 November 2005.

Lantuit, H. 2005. The relation between retrogressive thaw slumps polycyclic pattern and shoreline evolution on Herschel Island, Yukon Territory. Shifting Lands, New insights into periglacial geomorphology. Clermont-Ferrand, France, 20-22 January 2005.

Lantuit, H., Pollard, W. H. 2005. An integrated multi-sensor approach to the geomorphological evolution of retrogressive thaw slumps on the southern Beaufort Sea coasts., 8th International Conference on Remote Sensing for Marine and Coastal Environments 17-19 May 2005, Halifax, Canada.

Pollard, W. H., Couture, N., **Lantuit, H.**, De Pascale, G. 2004. Coastal erosion and permafrost sensitivity. ArcticNet 1st Annual Scientific Meeting. Quebec City, 5-8 December 2004.,

De Pascale, G., Haltigin, T., **Lantuit, H.**, Turner, J. 2003. RIGID-Resistivity Instrument for Ground Ice Detection. First Aurora Student Design Contest, ESA. Universitat Politecnica de Catalunya, Barcelona (Spain) 8-9 September 2003,

Lantuit, H., Pollard, W. H. 2002. Fifty years of coastal erosion on Herschel Island, Yukon Territory: A Remote Sensing Investigation. 3rd ACD International Workshop University of Oslo (Norway) 2-5 December 2002,

POSTER PRESENTATIONS

Lantuit, H., Beylich, A., Lamoureux, S. 2007. Sediment budget in coastal settings: On the necessity to create a common framework for SEDIBUD and ACCO/Net activities during the International Polar Year

Lantuit, H., Rachold, V., Grigoriev, M., Grosse, G., Atkinson, D. 2007. Coastal erosion and storminess evolution on Bykovsky Peninsula, Southern Laptev Sea, Russia.

Frauenfeld, O. W., Ballagh, L., **Lantuit, H.** 2006. Permafrost Young Researchers Network (PYRN): An international effort to encourage the involvement of young researchers for the International Polar Year (2007–2008)., 1st Asian Conference on Permafrost, Lanzhou, China, August 7–9.

Frauenfeld, O. W., Ballagh, L., **Lantuit, H.** 2006. The Permafrost Young Researchers Network (PYRN): Education and Outreach for the International Polar Year (2007-2008) and Beyond., American Geophysical Union Fall Meeting, San Francisco, California, December 11–15.

Lantuit, H., Couture, N., Overduin, P. 2006. ACD II – Arctic Coastal Dynamics II – New project, new ambitions and possible connections with SEDIFLUX., 4th SEDIFLUX meeting. Trondheim, Norway, October 28-November 30.

Lantuit, H., Rachold, V., Pollard, W. H., Steenhuisen, F., Hubberten, H. -W. 2006. Towards a recalculation of carbon release in the Arctic Ocean by coastal erosion: The influence of coastline fractality, An Earth System Science Partnership - Global Environmental Change Open Science Conference, Beijing, China, 9-12 November.

- Couture, N., Pollard, W. H., Solomon, S., **Lantuit, H.** 2005. An estimate of the flux of organic carbon from permafrost soils along the Yukon Coastal Plain, Canada, 2nd European Conference on Permafrost, Potsdam, Germany, 12-16 June 2005.
- Haltigin, T., **Lantuit, H.** 2005. Estimating ground ice volumes in tundra polygon networks, 56th International Astronautical Congress 2005, Fukuoka, Japan, October 17-21 2005.
- Lantuit, H.**, Grosse, G., Schirrmeister, L., Kunitsky, V., Grigoriev, M., Rachold, V. 2005. Assessment of ice-rich permafrost thawing and thermokarst activity on the Bykovsky Peninsula, Laptev Sea (Russia), under a global warming scenario, 2nd European Conference on Permafrost, Potsdam, Germany, June 10-16 2005.
- Lantuit, H.**, Rachold, V., Pollard, W. H. 2005. The coast from above: remote sensing tools for the investigation of Arctic coastal settings, Second International Conference on Arctic Research Planning (ICARP II). November 10-12 2005, Copenhagen, Denmark.
- Ødegård, R., Rachold, V., Steenhuisen, F., **Lantuit, H.**, Atkinson, D. 2005. Arctic Coastal Dynamics (ACD) – A Geoinformation System, Second International Conference on Arctic Research Planning (ICARP II). November 10-12 2005, Copenhagen, Denmark.
- Couture, N., **Lantuit, H.**, Pollard, W. H., Solomon, S. 2004. Organic Carbon Contents of Permafrost Soils Along the Yukon Coastal Plain, Canada. AGU Fall Meeting, San Francisco, 13-17 December 2004.
- De Pascale, G., **Lantuit, H.**, Pollard, W. H. 2004. An Updated Estimation of Ground Ice Volume for Richard's Island in the Mackenzie Delta and an Assessment of Potential Thaw Sensitivity to Climate Change. ACIA International Scientific Symposium on Climate Change in the Arctic. Reykjavik, Iceland, 9 - 12 November, 2004.
- Lantuit, H.**, Pollard, W. H. 2004. Fifty years of coastal erosion on Herschel Island, Southern Beaufort Sea, Yukon Territory. Association Québécoise pour l'Étude du Quaternaire (AQQUA) and Canadian Geomorphology Research Group (CGRG). 14-15- 16 May 2004, Université Laval, Québec,
- Lantuit, H.**, Pollard, W. H. 2004. A volumetric analysis of long-term coastal erosion on Herschel Island, Yukon Territory : First results. 1st EGU (European geosciences Union) General Assembly, Nice (France), 25-30 April 2004.
- Lantuit, H.**, Couture, N., Pollard, W. H., Haltigin, T., De Pascale, G., Budkewitsch, P. 2004. Short-term evolution of coastal polycyclic retrogressive thaw slumps on Herschel Island, Yukon Territory. 5th Arctic Coastal Dynamics International Workshop, 13-16 October 2004, Dept. of Geography, McGill University, Montréal, Canada.
- Lantuit, H.**, Haltigin, T., Pollard, W. H. 2004. Remote detection of ground ice in polar desert environments: A multi-sensor approach. 55th International Astronautical Conference, 4-9 October 2004, Vancouver, Canada.
- Lantuit, H.**, Couture, N., Pollard, W. H. 2004. Identification of stabilized and revegetated retrogressive thaw slumps floors on an ice-rich Arctic coast using Landsat near-infrared imagery" 5th Arctic Coastal Dynamics International Workshop, 13-16 October 2004, Dept. of Geography, McGill University, Montréal, Canada.
- Lantuit, H.**, Couture, N., Pollard, W. H. 2003. A volumetric analysis of long-term coastal erosion on Herschel Island, Yukon Territory : Preliminary results. 4th International ACD Workshop, VNIIOkeangeologia, Saint-Petersburg (Russia) 10-14 November 2003.

TEACHING EXPERIENCE

Lab lecturer, McGill University, GEOG 307, "Socioeconomic aspects of GIS", 2004

Guest lecturer, McGill University GEOG 308 "Principles of Remote Sensing" "Coastal erosion in the Southern Beaufort Sea: Impacts, Causes and Detection", 2003

Guest lecturer, McGill University GEOG 535 "Fractals, shoreline length, and shoreline type", 2004

Teaching assistant, McGill University GEOG 201 "Geographic Information Science"; GEOG 205 "Global Climate Change"; GEOG 308 "Principles of remote sensing"; GEOG 307 "Socioeconomic aspects of GIS" 2002-2004

ADVISING

Co-supervisor

M. Fritz: „High resolution records from eastern Beringia“ PhD thesis, in progress.

F. Schmitz: “Analyse hyperspektraler Chris-Proba-Fernerkundungsdaten zur Bestimmung der Morphometrie von Thermokarst-Seen im westlichen Lenadelta (Sibirien) – Hyperspectral analysis of Chris-Proba data for the investigation of thermokarst lakes bathymetry in the western Lena Delta (Siberia)“. Masters thesis, University of Potsdam, June 2007

Supervisor

M. Berg: “Fractal coastlines on Herschel Island”, Internship project, University of Bonn, June 2006

J.-E. Kruse: “Fractal coastlines of the Lena Delta”, Internship project, University of Bonn, June 2005

J.-E. Kruse: “EXMEDA – Expedition metadatabase of the AWI Potsdam”, University of Bonn, May 2005

FIELD EXPERIENCE

Expedition leader, Joint German-Canadian expedition «Yukon Coast 2009».

To be conducted in July-August 2009

Expedition leader, Joint German-Canadian expedition «Yukon Lakes 2009 ».

Trout Lake, Herschel Island and Inuvik, Inuvialuit land, Canada

On-site and off-site Field Logistics, including shipping, custom clearances, and charter flight planning, cooperation with the Inuvialuit community and Territorial park rangers.

Lake sediment coring, Field geological sampling, geotechnical investigations from lake ice.

Expedition leader, Joint German-Canadian expedition «Yukon Coast 2008 ».

Herschel Island, Yukon coast and Inuvik, Inuvialuit land, Canada

On-site and off-site Field Logistics, including shipping, custom clearances, helicopter and charter flight planning, cooperation with the Inuvialuit community and Territorial park rangers. Field geological sampling, geotechnical investigations, DGPS surveys, coastal monitoring

Expedition leader, Joint German-Canadian expedition «Yukon Coast 2006 ».

Herschel Island, Yukon coast and Inuvik, Inuvialuit land, Canada

On-site and off-site Field Logistics, including shipping, custom clearances, helicopter and charter flight planning, cooperation with the Inuvialuit community and Territorial park rangers. Field geological sampling, geotechnical investigations, vegetation surveys, field spectrometry, DGPS surveys, coastal monitoring

Field investigator, Lena Delta, Siberia, Russia, August-September 2005

Field geological sampling, Ground Penetrating Radar surveys, bathymetrical surveys, field spectrometry

Field assistant, Herschel Island, and Yukon Coast, Inuvialuit land, Canada, August 2004
DGPS surveys, Datalogger installation, Weather station setup, shallow drilling

Field investigator, Herschel Island, Inuvialuit land, northern Yukon, Canada, September 2003
DGPS surveys

OUTREACH ACTIVITIES

Panelist and moderator in outreach events, in Germany, France, Norway, USA, Russia, etc.

Radio Interviews, Radio France International, Total magazine, Radio Classique

TV Documentary feature

“2025 – Der Globale Klimawandel”, Bayerische Rundfunk Germany

“ Brilliant Minds”, Deutsche Welle TV international

Press articles, The Gazette (Montréal), The Edmonton Journal, Inuvik Drum

PERSONAL INTERESTS

Football, Alpine skiing, snowboard, Squash

French and American literature

Contemporary Japanese literature

Nabis and impressionism