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M-Lepage, J., Doré, G., Fortier, D., Murchison, P., 2012, Thermal Performance of the Permafrost Protection Techniques at Beaver Creek Experimental Road Site, Yukon, Canada, Proceedings, Tenth International Conference on Permafrost, Salekhard, Russia, June 25-29, v. 1, 261-266, Published

May, I., Carlson, D., Ardyna, M., Geoffroy, M., and Heikkilä, M., 2011, Making Science Animations - New Possibilities for Making Science Accessible to the Public, Polar Research, , Accepted

May, I., Ludwig, R., Bernier, M., Lévesque E., and Boike, J., 2015, Assessing permafrost degradation and land cover changes (1986-2009) using remote sensing data, Umiujaq, sub-Arctic Quebec, Accepted in Permafrost and Periglacial Processes, , Accepted

Myers-Smith, I.H., Hallinger, M., Wilmking, M., Blok, D., Sass-Klaassen, U., Rayback, S.A., Weijers, S., Trant, A., Tape, K.D., Naito, A.T., Wipf, S., Rixen, C., Dawes, M., Wheeler, J., Buchwal, A., Baittinger, C. et al., 2013, Methods for measuring arctic and alpine shrub growth., Annals of Botany, , Submitted

Myers-Smith, I.H., Hallinger, M., Wilmking, M., Blok, D., Sass-Klaassen, U., Rayback, S.A., Weijers, S., Trant, A., Tape, K.D., Naito, A.T., Wipf, S., Rixen, C., Dawes, M., Wheeler, J., Buchwal, A., Baittinger, C., Macias-Fauria, M., Forbes, B.C., Lévesque, E., Boulanger-Lapointe, N., Beil, I., Ravolainen, V. and Wilmking, M., 2015, Methods for measuring arctic and alpine shrub growth : A review, Earth-Science Reviews, v.140, 1-13, Published

Paquette, M., Fortier, D., Mueller, D.R., Sarrazin, D. and Vincent, W.F., 2015, Rapid Disappearance of Perennial Ice on Canada's Most Northern Lake, Geophysical Research Letters, , Accepted

Plante, S., Champagne, E., Ropars, P., Boudreau, S., Lévesque, E., Tremblay, B., Tremblay, J.-P., 2014, Shrub cover in northern Nunavik: can herbivores limit shrub expansion?, Polar Biology, in press, Accepted

Plante, S., Champagne, E., Ropars, P., Boudreau, S., Lévesque, E., Tremblay, B., Tremblay, J.-P., 2014, Shrub cover in northern Nunavik: can herbivores limit shrub expansion?, Polar Biology, v.37, 611-619, Published

Provencher-Nolet, L., Bernier, M. and Lévesque, E., 2015, Quantification des changements récents à l'écotone forêt-tundra à partir de l'analyse numérique de photographies aériennes, In press ÉcoScience, January 2015, , Accepted

Ropars, P., Lévesque, E and Boudreau, S., 2015, Greening in subarctic Québec: heterogeneity in dwarf birch response to recent climate change, In Press Journal of Ecology JEcology-2014-0548, , Accepted

Ropars, P., Lévesque, E. and Boudreau, S., 2014, Shrub densification in western Nunavik: the relative influence of historical and topographic variables, Accepted with minor revisions Ecoscience, December 2014, , Accepted

Short N., Brisco, B., Couture, N., Pollard, W., Murnaghan, K. and Budkewitsch, P., 2011, A comparison of TerraSAR-X and ALOS-PALSAR interferometry for monitoring permafrost environments, case study from Herschel Island, Canada, Remote Sensing of Environment DOI: 10.1016/j.rse.2011.08.12, , Published

Sloan, H.A., and Pollard, W.H., 2014, Vegetation recovery patterns following permafrost disturbance in a Low Arctic setting: Case study of Herschel Island, Yukon, Canada., Arctic, Antarctic, and Alpine Research, , Submitted

Stephani, E., Fortier, D., Shur, Y., Fortier, R., Doré, G. and Walsh, R., 2014, A Geosystems Approach to Permafrost Investigations for Engineering Applications, an Example From a Road Stabilization Experiment, Beaver Creek, Yukon, Canada, Cold Region Science and Technology, v.100, 20-35, Published

Stephani, E., Fortier, D., Shur, Y., Fortier, R., Doré, G., Walsh, R., 2013, A geosystem approach to permafrost investigations for engineering applications, an example from a road stabilization experiment, Beaver Creek, Yukon, Canada, Cold Region Science and Technology, in press, Accepted

Thompson, L., Osinski, G. and Pollard, W., 2012, The dielectric permittivity of terrestrial ground ice formations: Considerations for planetary exploration using ground-penetrating radar, *Journal of Geophysical Research*, v.117, E9, Published

Thompson, L., Osinski, G. and Pollard, W., 2013, Application of the Brewster angle to quantify the dielectric properties of ground ice formations, *Journal of Applied Geophysics*, 12-17, Published

Tremblay, B., Lévesque, E. and Boudreau, S., 2011, Recent expansion of erect woody vegetation in the Canadian Eastern Low Arctic., *Arctic Antarctic and Alpine Research*, , Accepted

Tremblay, B., Lévesque, E. and Boudreau, S., 2012, Recent expansion of erect shrubs in the Low Arctic: evidence from Eastern Nunavik., *Environ. Res. Lett.* 7 (2012), 35501, Published

Vincent, W.F., D. Fortier, E. Lévesque, N. Boulanger-Lapointe, B. Tremblay, D. Sarrazin, D. Antoniades, D.R. Mueller, 2011, Extreme ecosystems and geosystems in the Canadian High Arctic: Ward Hunt Island and vicinity, *Ecoscience*, v.18, no.3, 236-261, Published

Vincent, W.F., Lemay, M., Allard, M. and Wolfe, B., 2013, Adapting to Permafrost Change: A Science Framework., *Eos*, 94 (42), 373-375, Published

Zottola, J., Darrow, M., Dannen, R., de Grandpré, I., Fortier, D., 2012, Investigating the Effects of Groundwater Flow on the Thermal Stability of Embankments over Permafrost, *Proceedings, Fifteenth International Specialty Conference on Cold Regions Engineering*, Quebec, Canada, August 2012, 601-611, Published

### **Other Refereed Contributions**

Allard, M. and Lemay, M., 2012, Nunavik and Nunatsiavut: From science to policy, *An Integrated Regional Impact Study (IRIS) of climate change and modernization.*, 303p., Published

Allard, M., Doyon, J., Mathon-Dufour, V., LeBlanc, A. -M., L'Hérault, E., Mate, D., Oldenborger, G. A., and Sladen, W. E., 2012, Surficial geology Iqaluit, Nunavut, Geological Survey of Canada, Canadian Geoscience Map 64, (ed. prelim.) 1 sheet 1 CD-ROM, doi:10.4095/289503, 1 sheet, Published

Allard, M., Lemay, M., Barrett, M., Bertol, M., Brassard, F., Cossette, S., Duhaime, G., Girard, N., Poisson, F., Sheldon, T. and Simpson, A., 2012, Nunavik and Nunatsiavut: an Inuit homeland peninsula., In *Nunavik and Nunatsiavut: From science to policy. An integrated impact study (IRIS) of climate change and modernization.*, 31-55, Published

Allard, M., Lemay, M., Barrett, M., Sheldon, T. and Brown, R., 2012, From Science to policy in Nunavik and Nunatsiavut: Synthesis and recommendations. In: Allard, M. and M. Lemay (Eds), *Nunavik and Nunatsiavut: From science to policy. An Integrated Regional Impact Study (IRIS) of climate change and modernization.* ArcticNet Inc., Quebec City, Canada,, 14-29, Published

Allard, M., Lemay, M., Barrette, C., Hachem, S., Sarrazin, D., Bell, T., and Doré, G., 2012, Permafrost and climate change in Nunavik and Nunatsiavut: Importance for municipal and transportation infrastructures, *From science to policy. Nunavik and Nunatsiavut integrated regional impact study*, Chap. 6, 1-28, Accepted

Allard, M., Lemay, M., Barrette, C., L'Hérault, E., Sarrazin, D., Bell, T. and Doré, G., 2012, Permafrost and climate change in Nunavik and Nunatsiavut: importance for municipal and transportation infrastructures., *From science to policy. An integrated impact study (IRIS) of climate change and modernization*, 171-197, Published

Allard, M., L'Hérault, E., Fortier, R., Calmels, F., Gagnon, O., Solomon-Côté, P. and Barrette, C., 2012, *Salluit, Nunavik: permafrost science in support of community adaption to climate change*, IPY, Montréal, 1, Published



Allard, M., Fortier, R., Calmels, F., Gagnon, O. et L'Hérault, E., 2011, Ground ice conditions in Salluit, Northern Quebec., AGU Fall Meeting, San Francisco, California, USA, 5-9 December 2011, 1, Published

Angelopoulos, M., Fox, D. and Pollard, W.H., 2012, Geochemically-Induced Unfrozen Water Effects on CCR Surveys of Massive Ground Ice, Western Canadian Arctic, Proceedings, Tenth International Conference on Permafrost. Salekhard, Yamal-Nenets Autonomous District, Russia, 27-33, Published

Brown, R., Lemay, M. et al., 2012, Climate variability and change in the Canadian Eastern Subarctic IRIS region (Nunavik and Nunatsiavut). In: Allard, M. and M. Lemay (Eds), Nunavik and Nunatsiavut: From science to policy. An Integrated Regional Impact Study (IRIS) of climate change and modernization., 57-93, Published

Brown, R., Lemay, M., Allard, M., Barrand, N.E., Barrette, C., Bégin, Y., Bell, T., Bernier, M., Bleau, S., Chaumont, D., Dibike, Y., Frigon, A., Leblanc, P., Paquin, D., Sharp, M.J. and Way, R., 2012, Climate variability and change in the Canadian Eastern Subarctic IRIS region (Nunavik and Nunatsiavut), From science to policy. An integrated impact study (IRIS) of climate change and modernization, 57-93, Published

Carbonneau, A. -S., Allard, M., LeBlanc, A. -M. L'Hérault, E., Mate, D., Oldenborger, G. A., Gosselin, P., and Sladen, W. E., 2012, Surficial geology and periglacial features, Pangnirtung, Nunavut, Commission géologique du Canada, Carte géoscientifique du Canada 65, (éd. prelim.) 2012; 1 feuille, doi:10.4095/289504, 1 sheet, Published

Carbonneau, A.S., Allard, M., L'Hérault, E. et LeBlanc, A.M., 2011, High permafrost ice contents in Holocene slope deposits as observed from shallow geophysics and a coring program in Pangnirtung, Nunavut, Canada., AGU Fall Meeting, San Francisco, California, USA, 5-9 December 2011., 1, Published

Coulombe, S., Fortier, D., 2012, Characterization of massive ground-ice at Bylot Island, Nunavut, Eight ArcticNet Annual Scientific Meeting, Vancouver, December 10-14, 2012, , Accepted

Coulombe, S., Fortier, D., Stephani, E., 2012, Using Air Convection Ducts to Control Permafrost Degradation Under Road Infrastructures: Beaver Creek Experimental Site, Yukon, Canada, Proceedings, Fifteenth International Specialty Conference on Cold Regions Engineering, Quebec, Canada, August 2012, 21-31, Published

De Grandpré, I., Fortier, D., 2012, Thermal impact of groundwater flow on permafrost degradation: a modeling approach, From Knowledge to Action, IPY conference, 22-27 April 2012, Montreal, Canada, , Accepted

Dufour Tremblay, G., Boudreau, S. et Lévesque, E., 2011, Le mélèze laricin : à l'assaut des montagnes des environs de Kangiqsualujuaq, Colloque du Centre de la science de la biodiversité du Québec, Montréal, Qc, , Accepted

Dufour Tremblay, G., Boudreau, S. et Lévesque, E., 2011, Le mélèze laricin : à l'assaut des montagnes des environs de Kangiqsualujuaq, Journée étudiante de l'IBIS (Institut de biologie intégrative et des systèmes), Québec, Qc, , Accepted

Duguay, Y. Bernier, M., 2011, Potential of polarimetric SAR data for snow water equivalent estimation in subarctic regions, Proceedings of the PolInSAR workshop, 23-28 January, Frascati, Italia, , Accepted

Duguay, Y., and Bernier, M., 2011, Use of RADARSAT-2 Data For Snow Characterization in Subarctic Regions, Comptes-rendus du 32e Symposium canadien de télédétection / 14e Congrès de l'Association québécoise de télédétection., 4, Accepted

Duguay,Y., Bernier, M. Lévesque, E. Tremblay, B., 2014, MONITORING OF SUBARCTIC SHRUB VEGETATION CHARACTERISTICS USING TERRASAR-X AND RADARSAT-2 DATA., Proceedings of IGARSS 2014 and 35 CSRS, 4, Published

Fortier, D., Godin, E., Coulombe, S., Veillette A., Létourneau, G., 2014, Morphometry and evolution of thermal erosion gullies in the valley of the glacier C-79, Bylot Island, Canadian Archipelago, Talk given at the Thermo-karst and Aquatic ecosystem Workshop 2014 (THAW14), March 12-15, Quebec, Submitted



Paquette, M., Fortier, D., Muller, D., Vincent, W., 2012, Temporal Monitoring and the Complete Decay of Perennial Ice-Cover on Canada's Northernmost Lake, Ward Hunt Island, Nunavut, From Knowledge to Action, IPY conference, 22-27 April 2012, Montreal, Canada, , Accepted

Paquette, M., Fortier, D., Vincent, W.F., 2014, The thermal and moisture distributing role of water tracks in Ward Hunt Island, Canadian High Arctic, Poster presented at the Thermokarst and Aquatic ecosystem Workshop 2014 (THAW14), March 12-15, Quebec, Submitted

Pelletier, M., Allard, M. and Lévesque, E., 2014, Geomorphological and thermal time sequence of permafrost degradation mound, Tasiapik, Nunavik, Oral presentation, European Conference on Permafrost, Évora, Portugal, June 18-21, Published

Provencher-Nolet, L., Bernier, M. and Lévesque, E., 2014, Short term change detection in tundra vegetation near Umiujaq, Subarctic Quebec, Canada, Proceedings of IEEE Geoscience and Remote Sensing Symposium, Québec, QC, Canada, 13-18 juillet, 668-670, Published

Sarrazin, D., et Allard, M., 2011, Monitoring of thermal contraction cracking in ice wedge polygons, Bylot Island, Nunavut, Canada., AGU Fall Meeting, San Francisco, California, USA, 5-9 December 2011., 1, Published

Sloan, H. and Pollard, W.H., 2012, Vegetation Patterns of Stabilized Retrogressive Thaw Slumps, Herschel Island, Northern Yukon, Proceedings, Tenth International Conference on Permafrost. Salekhard, Yamal-Nenets Autonomous District, Russia, 389-395, Published

Stephani, E., Fortier, D., Shur, Y., 2012, Cryofacies evidences of a Yedoma development during the last glacial maximum in Yukon (Canada) along the current Alaska border, Transactions, American Geophysical Union Fall Meeting, December 3-7, San Francisco, USA, Abstract C13A-0604, Published

### **Non-Refereed Contributions**

Allard, M., 2012, Le pergélisol et le changement climatique au Québec nordique : les défis pour le développement régional, Invited Talk. Québec-Mines, 28 November, 2012, 1, Published

Allard, M., 2012, Permafrost science applied to northern communities and infrastructures. New challenges and opportunities for northern research, Invited talk, Fifteenth International Specialty Conference on Cold Regions Engineering, 1, Published

Allard, M., 2013, The impacts of climate change on permafrost. Merging science and community concerns, Pan-Territorial Permafrost Workshop, invited presentation, 1, Published

Allard, M., 2013, Les impacts du dégel du pergélisol sur les écosystèmes et les communautés arctiques, Chantier Arctique, Paris, 1, Published

Allard, M., 2014, Permafrost science applied to northern communities and infrastructures. New challenges and opportunities for northern research. An ArcticNet project, Colloquium: Warming Arctic: Development, Stewardship and Science, Boston, États-Unis, 1, Published

Allard, M., J. Roger, D. Sarrazin, M.-P. Lachance, É. Morin, G. Doré and A. Guimond, 2014, Test of Fiber Optics Linearly Distributed Temperature Sensing for permafrost monitoring in Salluit, Nunavik, Arctic Change 2014, Ottawa, Canada, 2, Published

Allard, M., Roger, J., Sarrazin, D., Lachance, M.-P., Morin, É., L'Hérault, E., Doré, G. and Guimond, A., 2014, Fiber optics distributed temperature sensing under a road on permafrost in Salluit, Nunavik, Canada, 4th European Conference on Permafrost, Évora, Portugal, 1, Published

Angelopoulos, M.C., Fox, D.P., Pollard, W.H., Couture, N.J., Riseborough, D.W., and Gowan, R., 2011, Ground Ice Investigations at Parsons Lake, Northwest Territories, Inuvik Petroleum Show, Inuvik, Canada., , Submitted

Angelopoulos, M.C., Pollard, W.H., Couture, N.J., Riseborough, D.W., and Gowan, R., 2011, Land management problems in hydrocarbon development areas with ice-rich permafrost: detection and assessment, PERD Northern Regulatory Research Workshop, Calgary, Canada, , Submitted

Angelopoulos, M.C., Pollard, W.H., Couture, N.J., and Riseborough, D.W., 2011, Geophysical mapping of ground ice at Parsons Lake, Northwest Territories: Implications for Space Exploration, Canadian Astrobiology Training Program Annual Meeting, Montreal, Canada, , Submitted

Angelopoulos, M.C., Pollard, W.H., Cray, H.A., Couture, N.J. and Lantuit, H., 2012, Biogeophysical characterization of polycyclic thermokarst on Herschel Island, Yukon Territory, Annual ArcticNet Science Meeting, 10-14 December 2012, Vancouver, British Columbia, Canada, , Accepted

Angelopoulos, M.C., Pollard, W.H., Redman, J.D., Ghent, R., Osinski, G., Annan, A.P., Parry, D. and Dietrich, P., 2012, Lunar ground- penetrating radar prototype: the effects of a rover on data products, McGill- CSA Space Day, 1 March 2012, Montreal, Quebec, Canada, , Accepted

Aubé-Michaud, Sarah, M. Allard, J. Gérin-Lajoie, S. Loranger and C. Barrette, 2014, A permafrost temperature regime simulator as a learning tool for secondary school inuit students, Arctic Change 2014, Ottawa, Canada, 5, Published

Baittinger, C. and Boulanger-Lapointe, N., 2012, Arctic bell-heather - annual growth in theCassiope heath., Zackenberg Ecological Research Operations, 17th Annual Report, 2011. (ed. L. M. Jensen) Aarhus University, DCE - Danish Centre for Environment and Energy., 120pp., Published

Becker, M.S. & Pollard, W.H., 2013, A case study of high Arctic anthropogenic disturbance to polar desert permafrost and ecosystem., Poster Presentation. American Geophysical Union. December 9 - 13. San Francisco, USA., , Accepted

Becker, M.S., & Pollard, W.H., 2013, Vegetation and permafrost interactions in a polar desert oasis, Poster Presentation. The International Biogeography Society conference. November 15 - 17. Montreal, Canada., , Accepted

Becker, M.S., & Pollard, W.H., 2013, Case study: high Arctic anthropogenic disturbance to polar desert ice-wedges and their ecosystems., Poster Presentation. ArcticNet. December 9 - 13. Halifax, Canada., , Accepted

Becker, M.S., Pollard, W.H. and Cray-Sloan, H.A., 2012, The Ecology of Decaying Ice-Wedges, Annual ArcticNet Science Meeting, 10-14 December 2012, Vancouver, British Columbia, Canada, , Accepted

Becker, MS, & Evans, P., 2014, Arctic wildlife in a warming world., Oral Presentation. Wildscreen Film Festival, Bristol, UK, October 19 - 24, 2014., , Accepted

Becker, MS, & Pollard, WH., 2014, Vegetation and permafrost interactions create wetland conditions in a polar desert oasis., Oral Presentation. Arctic Biodiversity Congress, Trondheim, Norway, December 2 - 4, 2014., , Accepted

Becker, MS, & Pollard, WH., 2014, Ice wedge thermokarst leads to greater heterogeneity of Arctic ecosystems., Oral Presentation. Arctic Change, Ottawa, Canada, December 8 - 12, 2014., , Accepted

Benkert, B., Kennedy, K., Fortier, D., S. Laxton, Lewkowicz, A., 2012, Landscape hazards in Yukon communities: Geoscience mapping for climate change adaptation planning, Partnership in Yukon science, Whitehorse, October 18th, 2012, , Accepted

Bouchard, F., Preskienis, V., Laurion, I. and Fortier, D., 2014, Carbon Cycling in Permafrost Aquatic Systems of Bylot Island, Eastern Canadian Arctic, Oral presentation at the AGU Fall meeting, December 15-19, San Francisco, USA., Published

Bouchard, F., Preskienis, V., Laurion, I. and Fortier, D., 2014, Impacts of Permafrost Degradation Processes on Aquatic System Biogeochemistry, Bylot Island, Nunavut, Oral presentiaion at the ArcticNet Annual Scientific Meeting, Decembrer 8-12, Ottawa, ON, Canada, Published

Boulanger-Lapointe, N., 2012, Audience specific communication : Northern communities. Workshop Presenter., ArcticNet Student Day 2012, 11th December 2012, Published

Boulanger-Lapointe, N., 2012, From tundra to forest? Impacts of current climate changes on high Arctic vegetation., Oral presentation, ArcticNet Annual Meeting, Vancouver, 12th December 2012, Published

Boulanger-Lapointe, N., Lévesque, E., Henry, G. H. R., Boudreau, S. and Schmidt, N.M., 2012, Arctic willow population dynamics and growth patterns in high Arctic Canada and Greenland., Oral presentation, ArcticNet Annual Meeting, Vancouver,, 12th December 2012, Published

Carbonneau, A.-S., Allard, M. and A-M. Leblanc., 2014, Ice-rich permafrost observed in Holocene slope deposits from shallow geophysics and a coring program in Pangnirtung, Nunavut, Canada, 4th European Conference on Permafrost; EUCOP4, Évora, Portugal, 1, Published

Champagne, E., Plante, S., Ropars, P., Boudreau, S., Lévesque, E. and Tremblay, J.-P., 2012, Caribou vs climate change : status quo in shrub abundance ?, Poster presentation at ArcticNet Annual Scientific Meeting in Vancouver, Dec. 2012, Published

Coulombe, S., Fortier, D., 2012, Engineering Techniques to Control Permafrost Degradation Under Road Infrastructure: Longitudinal Air Convection Ducts, Actes du colloque adaptation aux changements climatiques dans les régions nordiques et arctiques et solution à la dégradation du pergélisol, 19-20 April 2012, Québec, Canada, , Accepted

Coulombe, S., Fortier, D., 2012, Paleoglaciology of Bylot Island at the Pliocene-Pleistocene transition, 10th National Student Conference on Northern Studies, University of Québec in Abitibi-Temiscamingue, Val-d'Or, November 1-3 2012., , Accepted

Coulombe, S., Fortier, D., 2012, Using Air Convection Ducts to Control Permafrost Degradation Under Road Infrastructure, Beaver Creek Experimental Site, Yukon, Canada, Third Annual Workshop of the Canadian Network of Expertise on Permafrost, Pangnirtung, Nunavut, May 26-30, 2012, , Accepted

Coulombe, S., Fortier, D., Lacelle, D., Godin, E. and Veillette, A., 2014, Glacier-Derived Permafrost Ground Ice, Bylot Island, Nunavut, Poster presented at the AGU Fall meeting, December 15-19, San Francisco, USA., Published

Cray-Sloan, H.A. and Pollard, W.H., 2012, Vegetation Patterns of Retrogressive Thaw Slumps, Herschel Island, Southern Beaufort Sea, Yukon Territory, Canada, Annual ArcticNet Science Meeting, 10-14 December 2012, Vancouver, British Columbia, Canada, , Accepted

De Grandpré, I., Fortier, D., 2012, Thermal impact of groundwater flow on permafrost degradation: a modeling approach, Actes du colloque adaptation aux changements climatiques dans les régions nordiques et arctiques et solution à la dégradation du pergélisol, 19-20 April 2012, Québec, Canada, , Accepted

Ducharme, M.-A., Allard, M. Allard, Côté, J. and L'Hérault, E., 2013, Estimating the thermal conductivity of some permafrost cores using CT-scan volumetric measurements, Ghent, Belgium, 1st International Conference on Tomography of Materials and Structures; ICTMS, 1, Published

Ducharme, M.-A., Allard, M., Côté, J. and L'Hérault, E., 2013, Measurements of permafrost thermal conductivity through Ct-Scan image analysis: A new technology for permafrost characterization, 9th Annual Scientific Meeting; ASM2013, December 9-13, Halifax, Canada, 1, Published







Konopczak, A. M., Manson, G.K., Couture, N., and Lantuit, H., 2014, Variability in Arctic coastal erosion along awestern Yukon coast., Poster Presentation. Arctic Change, Ottawa, Canada, December 8 - 12, 2014., , Accepted

Krautblatter, M. , Angelopoulos, M. , Lantuit, H. , Fritz, M. , Lenz, J., Fox, D. and Pollard, W. H., 2013, Temporal and spatial dynamics of mega retrogressive thaw slumps revealed by 2D/3D geophysics and mechanical implications for the pace of coastal thermokarst on Herschel Island, western Canadian Arctic., EGU General Assembly 2013, Vienna, Austria, 8 April 2013 - 12 April 2013, , Accepted

L'Hérault, E., Allard, M., Barrette, C., Doré, G. and Guimond, A., 2014, Assessment of permafrost conditions and thermal disturbances diagnosis under airfields and access roads to support adaptation strategies to climate warming: Case studies from Northern Quebec, 4th European Conference on Permafrost, Évora, Portugal, 1, Published

Lantuit, H., 2013, Why are the frozen arctic coasts eroding so fast?, Global Change Seminar, School of Geosciences, University of Edinburgh, Edinburgh, Scotland, 20 November 2013 - 20 November 2013., , Accepted

Lantuit, H., and Laland, C., 2014, Nunatariuk: building an integrated international project to quantify and understand land-ocean fluxes of sediment and organic matter in the Beaufort Sea., Poster Presentation. Arctic Change, Ottawa, Canada, December 8 - 12, 2014., , Accepted

Lantuit, H., Fritz, M. and Pollard, W. H., 2012, Drilling on the Yukon Coast, Herschel Island and in Herschel Basin, IODP workshop; Co-ordinated Scientific Drilling in the Beaufort Sea: Addressing past, present and future changes in Arctic terrestrial and marine systems, Kananaskis, Alberta, Canada, 12 February 2012 - 15 February 2012, , Accepted

Lantuit, H., Fritz, M., Krautblatter, M., Angelopoulos, M. and Pollard, W. H., 2013, What Triggers Retrogressive Thaw Slumps in the Arctic Coastal Zone?, 9th ArcticNet Annual Scientific Meeting (ASM2013), Halifax, Canada, 9 December 2013 - 13 December 2013., , Accepted

Lantuit, H., Fritz, M., Weege, S., Krautblatter, M., Angelopoulos, M. and Pollard, W., 2013, Retrogressive thaw slumps: structure, evolution and relevance to carbon cycle of the Arctic Ocean,, 8th International Conference on Geomorphology, Paris, France, 27 August 2013 - 31 August 2013., , Accepted

Lantuit, H., M. Allard, M. Guglielmin, M. Johansson, G. Kraev, M. Krautblatter, G. Krinner, E. A. G. Schuur, Y. Sjöberg, J. Baeseman and K. Schollän, 2014, Permafrost Research Priorities: A Roadmap for the Future of Permafrost Research, Arctic Change 2014, Ottawa, Canada, 109-110, Published

Lantuit, H., Overduin, P., Grosse, G., Schirrmeister, L., Wetterich, S., Heim, B., Wegner, C., Grigoriev, M. N. and Hubberten, H. W., 2013, Organic carbon release from coastal erosion of the Bykovsky Peninsula, Laptev Sea, Russia., EGU General Assembly 2013, Vienna, Austria, 8 April 2013 - 12 April 2013, , Accepted

Larouche, M.-È., Allard, M., 2011, Permafrost and climate change in a mining context: the case of Raglan mine, Nunavik, Symposium 2011. Mines and the Environment.November 6-9, Canadian Institute of Mining, Metallurgy and Petroleum, Poster, 1, Published

LeBlanc, Anne-Marie, G.A. Oldenborger, W.E. Sladen and M. Allard, 2014, Infrastructure and climate change impacts on ground thermal regime, Iqaluit international airport, Nunavut, Arctic Change 2014, Ottawa, Canada, 102, Published

Leblanc-Dumas, J., Allard, M. and Tremblay, T., 2012, Quaternary geology and permafrost characteristics in central Hall Peninsula, Baffin Island, Nunavut, ArcticNet Annual Scientific Meeting, Vancouver, Canada, December 10-14, 1, Published

Leblanc-Dumas, J., Allard, M. and Tremblay, T., 2014, Properties of permafrost in a regolith in central Hall Peninsula, Baffin Island, Nunavut, Canada, 4th European Conference on Permafrost; EUCOP4, Évora, Portugal, 1, Published



Lemay, M., Allard, M., L'Hérault, E., Cournoyer, L., Carbonneau, A-S., Roger, J., Sarrazin, D. and Vincent, W.F., 2014, Development of ADAPT standard protocols for permafrost sampling, analysis and monitoring: Towards a pan-Canadian integrated permafrost framework, 4th European Conference on Permafrost, Évora, Portugal, 1, Published

Lenz, J., Fritz, M., Wetterich, S., Lantuit, H. and Schirrmeister, L., 2011, Lake sediments as environmental archive in the western Canadian Arctic: Late Glacial to Holocene records from Herschel Island sediment, Sediment Conference, Leipzig, Germany, , Submitted

Lenz, J., Fritz, M., Wetterich, S., Lantuit, H. Schirrmeister, L. and Frenzel, P., 2011, 11 ka of lake dynamics at high latitudes: Evidence for early Holocene warming in the western Canadian Arctic (Herschel Island), 5th International Limnogeology Congress, Konstanz, Germany, , Submitted

Lenz, J., Fritz, M., Wetterich, S., Schirrmeister, L., Lantuit, H. and Pollard, W., 2012, Lake archives in Canada and Alaska: Do we see effects of polar climate change during the Early Holocene?, , IPY2012 Conference - From Knowledge to Action, Montréal, Canada, 22 April 2012 - 27 April 2012, , Accepted

Lévesque, E., Boudreau, S., Dufour Tremblay, G., Lavallée, C. and Tremblay, B., 2012, Recent warming in Kangiqsualujjuaq, Nunavik : more shrubs, more trees, less berries?, Conference presented at ArcticNet Annual Scientific Meeting in Vancouver, Dec. 2012., Published

L'Hérault, E. et Allard, M., 2012, Les conditions de pergélisol au Québec nordique : Mise en contexte et défis pour la conception, la construction et la gestion des infrastructures de transport., Colloque AQTR : Conception, construction et gestion des infrastructures de transport en région nordique. 11 Décembre 2012, Montréal, Qc., Canada., 1, Published

L'Hérault, E., Allard, M., Doré, G., Barrette, C., Sarrazin, D. et Guimond, A., 2012, Assessment of Permafrost Conditions under Airfields and Access Roads to Support Adaptation Strategies to Climate Warming: A Case Study from Northern Quebec., From Knowledge to Action, IPY conference, 22-27 April 2012, Montreal, Canada., 1, Published

L'Hérault, E., Allard, M., Doré, G., Barrette, C., Verreault, J., Sarrazin, D., Doyon, J., 2012, Assessment of Permafrost conditions under Northern Quebec's airports: an integrative approach for the development of adaptation strategies to climate warming. Adaptation aux changements climatiques dans les régions nordiques et arctiques et solutions à la dégradation du pergélisol, The Northern Forum, 19-20 April, Québec, Québec, Canada., 1, Published

L'Hérault, E., Allard, M., Fortier, D., Lemieux, C. et Carbonneau, A.S., 2012, Production de cartes prédictives des caractéristiques du pergélisol afin de guider le développement de l'environnement bâti pour les communautés de Puvirnituq, Akulivik, Kangirsuk et Tasiujaq, Nunavik., Ouranos 5e symposium scientifique: Climatologie et adaptation à l'échelle régionale. 19-21 Novembre 2012, Montréal, Qc., Canada., 1, Published

M-A. Ducharme, M. Allard, J. Côté and E. L'Hérault., 2014, Measurements of permafrost thermal conductivity through Ct-Scan image analysis: A new technology for permafrost characterization, 4th European Conference on Permafrost; EUCOP4, Évora, Portugal, 1, Published

Malenfant –Lepage, J., Doré, G, Fortier, D., 2012, (2012), Performance thermique des techniques de protection du pergélisol au site expérimental de Beaver Creek, Yukon, Actes du colloque adaptation aux changements climatiques dans les régions nordiques et arctiques et solution à la dégradation du pergélisol, 19-20 April 2012, Québec, Canada, , Accepted

Mathon-Dufour, V. and Allard, M., 2012, Mapping surficial geology and permafrost conditions at Iqaluit Airport, Nunavut., From Knowledge to Action, IPY conference, Montreal, Canada, April 22-27,, 1, Published

Mathon-Dufour, V. and Allard, M., 2012, Assessment of permafrost conditions under the Iqaluit airport, Nunavut., Fifteenth International Specialty Conference on Cold Regions Engineering, Quebec, Canada, August 21-31, 1, Published

Mathon-Dufour, V. and Allard, M., 2014, Geocryological facies and ice wedge patterns in a sandurdelta as revealed by surficial geology mapping, drilling and geophysics, Iqaluit airport, Nunavut, Canada, 4th European Conference on Permafrost, Évora, Portugal, 1, Published

Mathon-Dufour, V., Allard, M. and Leblanc, A.-M., 2014, Assessment of permafrost conditions in support of the rehabilitation and adaptation to climate change of the Iqaluit airport, Nunavut, Canada, 4th European Conference on Permafrost, Évora, Portugal, 1, Published

Mathon-Dufour, V., Allard, M. and Leblanc, A.-M., 2012, Assessment of permafrost conditions under the Iqaluit airport, Third Annual Workshop of the Canadian Network of Expertise on Permafrost, Pangnirtung, Nunavut, May 26-30, 1, Published

Mathon-Dufour, V., Allard, M., Leblanc, A.-M., L'Hérault, E., Oldenborger, G.A. and Sladen, W.E., 2012, Mapping surficial geology and assessment of permafrost conditions under the Iqaluit airport, Nunavut, Canada., American Geophysical Union Fall Meeting, San Francisco, USA, December 3-7, 1, Published

Mathon-Dufour, V., Allard, M., Leblanc, A.-M., L'Hérault, E., Oldenborger, G.A. and Sladen, W.E., 2012, Mapping surficial geology and assessment of permafrost conditions under the Iqaluit airport, Nunavut, Canada., ArcticNet Annual Scientific Meeting, Vancouver, Canada, December 10-14, 1, Published

May, I., Ludwig, R., and Bernier, M., 2011, Using TerraSAR-X Imagery for the Monitoring of Permafrost Dynamics in Northern Quebec., Proceedings, 2, Published

May, I., Ludwig, R., and Bernier, M., 2011, Using TerraSAR-X Imagery for the Monitoring of Small-Scaled Permafrost Dynamics in Northern Quebec, Arctic Science Summit Week, Seoul, Korea., 1, Published

Myers-Smith I. H., Lévesque, E., Grogan, P., Lantz, T., Jacob, A., Hik, D. and Henry, G. H. R., 2012, Feedbacks between shrubs and temperatures across Northern Canada. Arctic, Tundra and Vegetation Session. Présentation donnée au congrès annuel ArcticNet à Vancouver, Dec. 2012., Published

Myers-Smith, I.H., Vellend, M., Lévesque, E., Hik, D. S. and the Shrub Hub Data Synthesis Group., 2012, Does temperature explain enhanced shrub growth in the circumpolar Arctic?, Conference presented at the International Polar Year Conference in Montréal, Apr. 2012., Published

Obu, J., Lantuit, H., Fritz, M., Heim, B., Myers-Smith, I., Sachs, T. and Helm, V., 2014, Soil organic carbon and total nitrogen on the Herschel Island., CAPP workshop, Stockholm University, 12 May 2014 - 14 May 2014., , Accepted

Obu, J., Lantuit, H., Fritz, M., Grosse, G., Sachs, T. and Helm, V., 2014, Short-term geomorphic dynamics of the Yukon and Herschel Island coasts based on LIDAR DEMs from 2012 and 2013., EUCOP4 European Conference on Permafrost, Evora, Portugal, 19 June 2014 - 21 June 2014., , Accepted

Oldenborger, Greg A., A.-M. Leblanc, N.H. Short, W.E. Sladen and M. Allard, 2014, Geophysical characterization of permafrost at Iqaluit international airport, Nunavut, Arctic Change 2014, Ottawa, Canada, 125, Published

Paquette, M., Fortier, D. and Vincent, W.F., 2014, The Geomorphic and Hydrologic Relation Between Water Tracks Development and Patterned Ground on a High Arctic Slope, Oral presentation at EUCOP4, June 18-21, Évora, Portugal, Published

Paquette, M., Fortier, D. and Vincent, W.F., 2014, Water Tracks in the Canadian High Arctic: Patterned Ground Control of Slope Hydrology and the Active Layer Thermal Regime, Oral presentiaion at the ArcticNet Annual Scientific Meeting, Decembrer 8-12, Ottawa, ON, Canada, Published



- Provencher-Nolet, L., Bernier, M. and Lévesque, E. 2013., 2013, Détection de changements à court terme de la toundra arbustive à la limite des arbres, région d'Umiujaq, Nunavik., Poster presented at 81e Congrès de l'Acfas, CEN symposium, Quebec., 1, Published
- Radosavljevic, B., Bartsch, A., Obu, J., Heim, B., Lantuit, H., Weege, S. and Wolter, J., 2013, Ground Validation for TerraSAR-X imagery in the Western Canadian Arctic, 5., TerraSAR-X Science Team Meeting, Oberpfaffenhofen, Germany, 10 July 2013 - 14 July 2013., , Accepted
- Radosavljevic, B., Lantuit, H., Fritz, M., Overduin, P. and Krautblatter, M., 2013, Depositional Settings of an Arctic Coast: A Shallow Seismic Investigation., ArcticNet Annual Scientific Meeting ASM2013 - Halifax, NS, Halifax, Nova Scotia, Canada, 9 December 2013 - 13 December 2013., , Accepted
- Radosavljevic, B., Lantuit, H., Fritz, M., Overduin, P. and Krautblatter, M., 2013, Vulnerability of coastal infrastructure in the Arctic: A focus on the historic settlement on Herschel Island., ArcticNet Annual Scientific Meeting ASM2013 - Halifax, NS, Halifax, Nova Scotia, Canada, 9 December 2013 - 13 December 2013., , Accepted
- Radosavljevic, B., Lantuit, H., Fritz, M., Overduin, P. and Krautblatter, M., 2013, Depositional settings of an arctic coast: a shallow seismic investigation., AK Permafrost 2013, Salzburg, Austria, 24 October 2013 - 26 October 2013., , Accepted
- Roger, J., Allard, M., Sarrazin, D., L'Hérault, E., Morin, E., Lachance, M-P., Doré G. and Guimond, A., 2014, Evaluating the use of distributed temperature sampling (fiber optics) along transportation infrastructure., Network of Expertise on Northern Transportation Infrastructure in Permafrost Regions Annual Fall Meeting, Dawson City, Canada, 1, Published
- Schollaen, K., Lewkowicz, A. G., Christiansen, H. H., Romanovsky, V. E., Lantuit, H., Schrott, L., Sergeev, D., and Wei, M., 2014, The International Permafrost Association: current initiatives for cryospheric research., Poster Presentation. Arctic Change, Ottawa, Canada, December 8 - 12, 2014., , Accepted
- Sliger, M. and Fortier, D., 2014, Beaver Creek Soils: From Genesis to Physical Properties, Oral presentation at the 5th Workshop of the Permafrost Network, June 4-7, Dawson City, YT, Canada, Published
- Sliger, M., Fortier, D. and deGrandpré, I., 2012, Hydrogeological regime at the Beaver Creek road test site, Yukon, Partnership in Yukon science, Whitehorse, October 18th, 2012, , Accepted
- Stephani, E., Fortier, D., 2012, Terrain and Permafrost Investigations at the Beaver Creek Road Experimental Site (Alaska Highway, Yukon, Canada), Actes du colloque adaptation aux changements climatiques dans les régions nordiques et arctiques et solution à la dégradation du pergélisol, 19-20 April 2012, Québec, Canada, , Accepted
- Tanski, G., Fritz, M., Lantuit, H., Strauss, J. , Rost, T. and Couture, N., 2014, Coastal erosion and fluxes of dissolved organic carbon from ground ice in the Canadian Arctic., 4th European Conference on Permafrost, Évora, Portugal, 18 June 2014 - 21 June 2014., , Accepted
- Tremblay, M., Lévesque, E., Fortier, D., 2014, Plant communities associated to the erect shrub *Salix richardsonii* at the northern limit of its range in the High Arctic, Poster presentation at Arctic Change 2014, Ottawa, December 8-12, Published
- Tremblay, T., Leblanc-Dumas, J. and Allard, M., 2013, Surficial Geology and Geomorphology of Southern Hall Peninsula, Baffin Island, Nunavut Mining Symposium 2013, Iqaluit, Nunavut, 1, Published
- Trudel, M., Boudreau, S., Grogan, P. and Lévesque, E., 2014, Landscape-scale heterogeneity in tundra birch shrub growth rates correlated with variation in soil nutrient availability?, Poster presentation at Arctic Change 2014, Ottawa, December 8-12, Published

Trudel, M., Boudreau, S., Grogan, P., and Lévesque E., 2013, Landscape-scale heterogeneity in tundra birch shrub growth rates correlated with variation in soil nutrient availability?, Poster Presentation at ArcticNet ASM, Halifax, Published

Verpaelst, M. and Fortier, D., 2014, Mouvements de Masse par Solifluxion et Dynamique Syngénétique du Pergélisol du Haut Arctique, Ile Ward Hunt, Haut Arctique Canadien, Poster presented at the 1st Forum Environnement of the University of Montreal, October 31, Montreal, QC, Canada, Published

Verpaelst, M., Fortier, D. and Paquette, M., 2014, Mass Movement by Solifluction and Syngenetic Dynamic of Permafrost in the High Arctic, Ward Hunt Island, Candian High Arctic, Poster presented at the ArcticNet Annual Scientific Meeting, Decembrer 8-12, Ottawa, ON, Canada, Published

Walker, D.A., M. Allard, T. Kumpula, M.K. Raynolds, Y. Shur, G. Kofinas, M. Kanevskiy, V. Romanovsky, Marcel Buchhorn and Lisa Wirth, 2014, Rapid Arctic Transitions Related to Infrastructure and Climate Change (RATIC): A Case Study from Prudhoe Bay, Alaska, Arctic Change, Ottawa, 194, Published

Ward, M., and Pollard, W., 2014, Recent retrogressive thaw slump activity in the Eureka Area, Ellesmere Island, Nunavut., Poster Presentation. Arctic Change, Ottawa, Canada, December 8 - 12, 2014., , Accepted

Ward, M., and Pollard, W., 2014, Recent retrogressive thaw slump activity in the Eureka Area, Ellesmere Island, Nunavut., Poster Presentation. GIS Day, McGill University, Montreal, Canada, November 10, 2014., , Accepted

Ward, M., Pollard, W. and Omelon, C., 2014, Hyper-saline spring activity on Axel Heiberg Island, Nunavut., Poster Presentation. Arctic Change, Ottawa, Canada, December 8 - 12, 2014., , Accepted

Ward, M.K., & Pollard, W.H., 2013, The geomorphology of two hyper-saline springs in the Canadian High Arctic: preminary observations and results., Poster Presentation. American Geophysical Union. December 9 - 13. San Francisco, USA., , Accepted

Ward, M.K., Pollard, W.H. & Omelon, C.R., 2013, The geomorphology of two hyper-saline springs in the Canadian High Arctic: preminary observations and results., Poster Presentation. ArcticNet. December 9 - 13. Halifax, Canada., , Accepted

Weege, S., Lantuit, H. , Fritz, M. , Obu, J. and Radosavljevic, B., 2014, Impact of Climatic Forces on the Thawing Process of a Retrogressive Thaw Slump and its Sediment and Carbon Release on the Yukon Coast, Canada., 4th European Conference on Permafrost, Évora, Portugal, 18 June 2014 - 21 June 2014., , Accepted

Williams, K.K., Haltigin, T.W. and Pollard, W.H., 2012, Peering into the subsurface: Using ground penetrating radar to study ice wedge geometry, Geological Society of America Annual Meeting, Abstract ID 212704, , Accepted

Wolter, J., Herzsuh, U. and Lantuit, H., 2014, A Late Holocene palaeoenvironmental lake record from the Yukon Coastal Plain, NW Canada., 9th European Palaeobotany and Palynology Conference, Padova, Italy, 26 August 2014 - 31 August 2014., , Accepted

Wolter, J., Lantuit, H., Herzsuh, U., Myers-Smith, I. and Fritz, M., 2014, Polygon mires on the Yukon Coast, Canada: Vegetation composition and active layer properties., 4th European Conference on Permafrost, Évora, Portugal, 18 June 2014 -21 June 2014., , Accepted

**Specialized Publications**

Allard, M. et Mathon-Dufour, V., 2013, Understanding permafrost processes under the Iqaluit airport: Progress report., Université Laval, Centre d'études nordiques. Report to Government of Nunavut and to Transport Canada, 14 p., Published



Duguay, Y., Bernier, M. (2012), 2012, The Use of RADARSAT-2 and TerraSAR-X Data for the Evaluation of Snow Characteristics in Subarctic Regions, Germany, July 22-27 2012, IEEE Geoscience and Remote Sensing Symposium (IGARSS 2012), Munich, Germany, July 22-27 2012, 4, Published

Duguay, Y., Bernier, M., Domine, F., and Lévesque, E., 2013, Utilisation combinée de RADARSAT-2 et TerraSAR-X pour caractériser l'interaction entre la végétation et la neige en milieu subarctique, 15<sup>e</sup> congrès de l'Association québécoise de télédétection, Rimouski, Canada,, 1, Published

Duguay, Y., Bernier, M., Domine, F., and Lévesque, E. atelier, 2013, Suivi de la végétation arbustive et de la neige en milieu subarctique à l'aide de RADARSAT-2 et TerraSAR-X, 9<sup>e</sup> Advanced SAR (ASAR 2013), St-Hubert, Canada, 15 au 18 octobre 2013, 1, Published

Duguay, Y., Bernier, M., Domine, F., Lévesque, E. and Tremblay, B., 2013, Utilisation de données satellitaires radar pour la caractérisation du couvert végétal et nival en milieu subarctique, 81<sup>e</sup> congrès de l'ACFAS / Colloque du Centre d'études nordiques, Québec,, 1, Published

Duguay, Y., Bernier, M., Lévesque, E., Tremblay, B. (2012) Remote Sensing Data, Montreal, Quebec,, 2012, The Importance of Vegetation Parameters for the Retrieval of Snow Characteristics in Subarctic Regions Using SAR, International Polar Year 2012, April 23-27 2012, 1, Published

Fortier, D., Godin, E., Coulombe, S., 2013, Permafrost erosion studies: buried ice and gullyng, Poster presented to the community of Pond Inlet, May 31, Pond Inlet, Published

Fortier, D., Lévesque, E., Coulombe, S., Godin, E., Gérin-Lajoie, J., 2012, Bylot Island periglacial ecosystems responses to climate change., Field report, Parks Canada, 8 pp., Published

Fortier, D., Lévesque, E., Godin, E., Coulombe, S., Veillette, A., Tremblay, M., Gosselin, L. and Veuille, S., 2014, Periglacial Ecosystems Dynamics in Response to Climate Change, Bylot Island, Nunavut, Canada. Report prepared for Parks Canada, Laboratoire de géomorphologie et de géotechnique des régions froides (Geocryolab), 8 p., Published

Fortier, D., Veuille, S., Verpaelst, M. and Charbonneau, S., 2014, Évaluation des impacts de l'écoulement de surface et de l'écoulement souterrain sur la dégradation du pergélisol et la stabilité des infrastructures routières : Rapport intérimaire d'étape 1 : Avancement des travaux. Report prepared for Transport Canada, Laboratoire de géomorphologie et de géotechnique des régions froides (Geocryolab), 40 p., Published

L'Hérault E., M. Allard, C. Barrette, G. Doré, and Sarrazin, D., 2012, Investigations géotechniques, caractérisation du pergélisol et stratégie d'adaptation dans un contexte de changements climatiques pour les aéroports d'Umiujaq, Inukjuak, Puvirnituaq, Akulivik, Salluit, Quaqtaq, Kangirsuk et Tasiujaq, Nunavik., Rapport final. Réalisé pour le compte du ministère des Transports du Québec. Québec, Centre d'études nordiques, Université Laval., 224 p., Published

LeBlanc, A-M., Mathon-Dufour, V., Allard, M., Oldenborger, G.A., Short, N., L'Hérault, E. and Sladen, W.E., 2013, Permafrost characterization at the Iqaluit International Airport, Nunavut, in support of decision-making and planning, Summary of Activities 2012, Canada-Nunavut Geoscience Office, 131-142, Published

Leblanc-Dumas, J., Allard, M. and Tremblay, T., 2013, Quaternary geology and permafrost characteristics in central Hall Peninsula, Baffin Island, Nunavut, Summary of Activities 2012, Canada-Nunavut Geoscience Office, 101-106, Published

Lemieux, C., Allard, M., Fortier, D., Grandmont, K., Larrivée, K., L'Hérault E. et Carbonneau, A.-S., 2013, Une évaluation de l'état du parc immobilier du Ministère de la santé et des services sociaux du Québec en fonction de la sensibilité du pergélisol au Nunavik., Université Laval, Centre d'études nordiques. Rapport au Ministère de la santé et des services sociaux du Québec, 95 p., Published



- Lemieux, C., Grabundzija, D., Doré, G. et Allard, M., 2013, Suivi du comportement thermique de la route d'accès de Salluit et expérimentation d'une méthode de détection de la dégradation du pergélisol le long des structures linéaires Rapport d'étape 1, version final, Rapport GCT-2013-02 Ministère des transports du Québec Groupe de recherche en ingénierie des chaussées et Centre d'études nordiques, 44 p., Published
- L'Hérault, E., Allard, M. et Lemay, M., 2014, ) Investigations géotechniques, caractérisation du pergélisol et stratégie d'adaptation dans un contexte de changements climatiques pour la route d'accès et l'aéroport de Kangiqualujuaq, Nunavik, Centre d'études nordiques, Université Laval, Rapport préliminaire au ministère des transports du Québec., 44 p., Accepted
- Pelletier, M. and Allard, M., 2012, Analysis of the thermal regime in the marine clay permafrost of site FP-2, Salluit, Nunavik., Project graduation (B.Sc), 64p., Published
- Pollard, W.H., Couture, N.J., Angelopoulos, M.C., Riseborough, D.W., Cray, H.A., and Fox, D.P. M., 2011, Land management problems in hydrocarbon development areas with ice-rich permafrost: Detection and assessment, Program of Energy and Research Development (PERD), , Submitted
- Provencher-Nolet, L., Bernier, M. et Lévesque, E., 2012, Short term change detection of the tundra vegetation near Umiujaq, Nunavik., ArcticNet Annual Scientific Meeting 2012 (ASM2012), Vancouver, British Columbia, December 10-14 2012., 1, Published
- Sarrazin, D. et Allard, M., 2013, Évaluation des conditions du pergélisol sous la piste 07-25 de l'aéroport de Kuujuaq. Rapport préliminaire., Université Laval, Centre d'études nordiques, Rapport à Transports Canada, 35 p., Published
- Sarrazin, D., Allard, M., Doré, G., L'Hérault, E., Roger, J. and Bilodeau, J-P., 2012, Évaluation des conditions du pergélisol sous la piste 07-25 de l'aéroport dde Kuujuaq en prévision de l'impact du réchauffement climatique., Rapport produit pour Transports Canada. Centre d'études nordiques, Université Laval., 175 p., Published
- Simpson, J., 2013, Erosion of Retrogressive Thaw Slumps, Herschel Island, YT., B.A. Thesis, McGill University, Montreal, Canada., , Accepted
- Sliger, M., Fortier D., 2013, Water and heat redistribution pattern along road embankment in a boreal forest permafrost environment, Talk given at the 4th Annual Workshop of the Canadian Network of Expertise on Permafrost, June 5-8, Fairbanks, Published
- Strauss, J., Shur Y., Kanevskiy M., Fortier D., Bjella K., Breen A., Johnson C., 2012, Expedition Alaskan North Slope / Itkillik 2012, , in Strauss, J. , M. Ulrich, M. Buchhorn, M. Expeditions to permafrost 2012 : Alaskan North Slope/Itkillik, Thermokarst in Central Yakutia, and EyeSight-NAAT-Alaska, Reports on polar and marine research, Bremerhaven, Alfred Wegener Institute for Polar and Marine Research, 655, 3-28, Published
- Tremblay, T., Leblanc-Dumas, J., Allard, M., Gosse, J.C., Creason, C.G., Peyton, P., Budkewitsch, P. and LeBlanc, A-M., 2013, Surficial geology of southern Hall Peninsula, Baffin Island, Nunavut: summary of the 2012 field season, Summary of Activities 2012, Canada- Nunavut Geoscience Office, 93-100, Published
- Vincent, W., and 14 ADAPT researchers (including Fortier, Lévesque, Allard), 2012, Arctic Development and Adaptation to Permafrost in Transition., Discovery Frontiers Northern Earth System Research Annual Report , Centre for Northern Studies, Laval University, Quebec City, 20 pp., Published
- Vincent, W.F., Fortier, D., Paquette, M., Sarrazin, D., Velasquez, D., Verpaelst, D., 2013, NEIGE field report, Field report prepared for Parks Canada, Centre d'études nordiques, Université Laval, Québec, 6 pp., Accepted