Instability of Coastal Landscapes in Arctic Communities and Regions

Summary

Project Leaders

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Future climate scenarios and impacts modeling predict changes in climate variables that may increase coastal landscape instability and hazard risk. Projecting the future response of the coastal land system to these changes in climate forcing is a prerequisite for an effective adaptation strategy and forms the core of this ArcticNet project. Through improved understanding of changes in climate, sea-level, sea ice, storms and wave climate, seasonal thaw depths, and other aspects of environmental forcing we will assess integrated impacts on coastal landscape stability, including flooding, erosion, habitat integrity, and community vulnerability. Together with northern communities and partners we plan to integrate local and external research and knowledge on climate-change trends and impacts in order to provide a common basis for decision-making at all levels, thereby enhancing community adaptive capacity. Ultimately the goal is to promote informed choices of adaptation measures and enhanced resilience in northern coastal communities.

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Network Investigators

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Aboriginal Affairs and Northern Development Canada - Northern Scientific Training Program
Alfred Wegener Institute Foundation for Polar and Marine Research

BREA/AANDC
C-Change ICURA
Canada Nunavut Geoscience Office
Canadian Embassy in Berlin
Canadian Hydrographic Service (Atlantic)
Climate Change Impacts and Adaptation Program
Garfield Weston Foundation
Government of Newfoundland and Labrador (Environment and Conservation)
Government of Nunavut - Fishing and Sealing Division
Ilisaqsivik Family Resource Centre
IPY Community Adaptation and Vulnerability in Arcitc Regions (CAVIAR) project
IPY Federal Program Office
Ittaq Heritage and Research Centre
Land-Ocean Interactions in the Coastal Zone
Memorial University of Newfoundland
MEOPAR
National Oceanic and Atmospheric Administration
Natural Resources Canada - Canada Centre for Remote Sensing
Natural Resources Canada - Climate Change Impacts and Adaptation Program
Natural Resources Canada - Geodetic Survey Division
Natural Resources Canada - Geological Survey of Canada
Natural Resources Canada - Geological Survey of Canada (Atlantic)
Natural Resources Canada - Geological Survey of Canada (Ottawa)
Natural Resources Canada - Geological Survey of Canada (Pacific)
Natural Resources Canada - Office of Energy Research and Development
Natural Resources Canada - Polar Continental Shelf Project
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University of Victoria
Western Alaska Landscape Convservation Consortium
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Publications

Articles Published in Refereed Publications

Allard, M., Manson, G.K. and Mate, D.J., 2014, Reconnaissance assessment of landscape hazards and potential impacts of future climate change in Whale Cove, southern Nunavut, Summary of Activities 2013, Canada-Nunavut Geoscience Office, Iqaluit, 171-182, Published

Angelopoulos, M.C., Fox, D.P., and Pollard W.H., 2012, Geophysical and geochemical investigations of massive ground ice at Herschel Island and Parsons Lake, Western Canadian Arctic, Proceedings, 10th International Conference on Permafrost, 25-29 June 2012, Salekhard, Russia, , Accepted

Becker, M.S., and Pollard, W.H., 2013, Vegetation and permafrost interactions in a polar desert oasis, International Biogeography Society Conference, , Accepted

Brown, T.M., Edinger, E.N., Hooper, R.H. and Belliveau, K., 2011, Benthic marine fauna and flora of two nearshore coastal locations in the western and central Canadian Arctic, Arctic, v.64, no.3, 281-301, Published

Bush, E.J., Loder, J.W., James, T.S., Mortsch, L.D. and Cohen, S.J., 2014, An Overview of Canada's Changing Climate, Canada in a Changing Climate: Sector Perspectives on Impacts and Adaptation, (ed.) F.J. Warren and D.S. Lemmen, 23-64, Published

Couture, N.J., Craymer, M.R., Forbes, D.L., Fraser, P.R., Henton, J.A., James, T.S., Jenner, K.A., Manson, G.K., Simon, K., Silliker, J. and Whalen, D.J.R., 2014, Coastal geoscience for sustainable development in Nunavut: 2013 activities, Summary of Activities 2013, Canada-Nunavut Geoscience Office, Iqaluit, 143-150, Published

Cray Sloan, H.A. and Pollard W.H., 2012, Vegetation Patterns of Stabilized Retrogressive Thaw Slumps, Herschel Island, Northern Yukon, Proceedings, 10th International Conference on Permafrost, 25-29 June 2012, Salekhard, Russia, , Accepted

Cray, H. A. and Pollard, W.H., 2015, Vegetation recovery patterns following permafrost disturbance in a Low Arctic setting: case study of Herschel Island, Yukon, Canada, Arctic, Antarctic and Alpine Research, 47, 99-113, Accepted

Forbes, D.L., Bell, T., James ,T.S. and Simon, K.M., 2014, Reconnaissance assessment of landscape hazards and potential impacts of future climate change in Arviat, Nunavut., Summary of Activities 2013, Canada-Nunavut Geoscience Office, Iqaluit, 183-192, Published

Forbes, D.L., Manson, G.K., Whalen, D.J.R., Couture, N.J. and Hill, P.R., 2014, Coastal products of marine transgression in cold-termperate and high-latitude coastal-plain settings: Gulf of St. Lawrence and Beaufort Sea, Sedimentary Coastal Zones from High to Low Latitudes: Similarities and Differences (Martini, I.P. and Wanless, H.R., eds.), Geological Society of London, Special Publication, 388, Accepted

Forbes, D.L., Manson, G.K., Whalen, D.J.R., Couture, N.J. and Hill, P.R., 2014, Coastal products of marine transgression in cold-temperate and high-latitude coastal-plain settings: Gulf of St. Lawrence and Beaufort Sea, Sedimentary Coastal Zones from High to Low Latitudes: Similarities and Differences (ed. Martini, I.P. and Wanless, H.R.), 131-163, Published

Frank-Fahle, B. A. , Yergeau, E. , Greer, C. W. , Lantuit, H. and Wagner, D., 2014, Microbial Functional Potential and Community Composition in Permafrost-Affected Soils of the NW Canadian Arctic, PLoS ONE, 9 (1), e84761, Published

Fritz, M., Wetterich, S., Meyer, H., Schirrmeister, L., Lantuit, H. and Pollard, W., 2011, Origin and characteristics of massive ground ice on Herschel Island (western Canadian Arctic) as revealed by stable water isotope and hydrochemical signatures, Permafrost and Periglacial Processes, v.22, no.1, 26-38, Published

Fritz, M., Wetterich, S., Schirrmeister, L., Meyer, H., Lantuit, H., Preusser, F. and Pollard, W.H., 2012, Eastern Beringia and beyond: Late Wisconsinan and Holocene landscape dynamics along the Yukon Coastal Plain, Canada., Palaeogeography, Palaeoclimatology, Palaeoecology. doi:10,1016/j.paleo.2011.12.015, 18, Accepted

Goldhar, C., Bell, T., and Wolf, J., 2012, Rethinking existing approaches to water security: An analysis of two drinking water systems in Nunatsiavut, Water Alternatives, , Submitted

Goldhar, C., Bell, T., and Wolf, J., 2013, Vulnerability to freshwater changes in the Inuit Settlement Region of Nunatsiavut, Labrador: A case study from Rigolet. Arctic., Arctic, , Accepted

Goldhar, C., Bell, T., and Wolf, J., 2013, Rethinking existing approaches to water security: An analysis of two drinking water systems in Nunatsiavut, Water Alternatives, v.6, 462-486, Submitted

Goldhar, C., Bell, T., and Wolf, J., 2014, Rethinking existing approaches to water security: An analysis of two drinking water systems in Nunatsiavut, Water Alternatives, v.6 (3), 462-486, Published

Goldhar, C., Bell, T., and Wolf, J., 2014, Vulnerability to freshwater changes in the Inuit Settlement Region of Nunatsiavut, Labrador: A case study from Rigolet, Arctic, v.67 (1), 71-83, Published

Grasby, S.E., Smith, I.R., Bell, T. and Forbes, D.L., 2013, Cryogenic brine and mirabilite precipitation formed by marine transgression of high latitude coastal lake basins – Sachs Harbour, western Canadian Arctic, Geochimica et Cosmochimica Acta, v. 110, 13-28, Published

Grasby, S.E., Smith, I.R., Bell, T., and Forbes, D.L., 2011, Cryogenic brine and mirabilite precipitation formed by marine transgression of high latitude coastal lake basins – Sachs Harbour, western Canadian arctic, Geochimica et Cosmochimica Acta, , Submitted

Grasby, S.E., Smith, I.R., Bell, T., and Forbes, D.L., 2012, Cryogenic formation of brine and sedimentary mirabilite in submergent coastal lake basins, Canadian Arctic., Geochimica et Cosmochimica Acta., , Accepted

Halfar, J., Adey, W. H., Kronz, A., Hetzinger, S., Edinger, E., and Fitzhugh, W. W., 2013, Arctic sea-ice decline archived by multicentury annual-resolution record from crustose coralline algal proxy, Proceedings of the National Academy of Sciences, v. 110, no. 49, 19737-19741, Published

Hatcher, S.V. and Forbes, D.L., 2015, Exposure to coastal hazards in a rapidly expanding northern urban centre, Iqaluit, Nunavut, Arctic, , Submitted

Hopkinson, C., Crasto, N., Marsh, P., Forbes, D. and Lesack, L., 2011, Investigating the spatial distribution of water levels in the Mackenzie Delta using airborne LiDAR, Hydrological Processes, v.25, no.19, 2995-3011, Published

James, T.S., Whalen, D.J.R., Jenner, K.A., Hatcher, S.V., Ulmi, M., Forbes, D.L., Manson, G.K., Henton, J. and Craymer, M.R., 2013, Coastal geoscience for sustainable development in Nunavut: 2012 activities, Summary of Activities 2012, Canada-Nunavut Geoscience Office, Iqaluit, 143-150, Published

Lane, D.E., Mercer-Clarke, C., Forbes, D.L. and Watson, P., 2012, The gathering storm: managing adaptation to environmental change in coastal communities and small islands, Sustainability Science, , Submitted

Lane, D.E., Mercer-Clarke, C., Forbes, D.L. and Watson, P., 2013, The gathering storm: managing adaptation to environmental change in coastal communities and small islands, Sustainability Science, v. 8, 469-489, Published

Lantuit, H., Overduin, P. and Wetterich, S., 2013, Recent Progress Regarding Permafrost Coasts., Permafrost and Periglacial Processes, v. 24, no. 2, 120-130, Published

Lantuit, H., Overduin, P.P., Couture, N., Wetterich, S., Aré, F., Atkinson, D., Brown, J., Cherkashov, G., Drozdov, D., Forbes, D., Graves-Gaylord, A., Grigoriev, M., Hubberten, H.W., Jordan, J., Jorgenson, T., Ødegård, S., Stanislav. O., Wayne, H., Rachold. R., Sedenko, S., Solomon, S., Steenhuisen, S., Streletskaya, I. and Vasiliev, A, 2011, The Arctic Coastal Dynamics database: a new classification scheme and statistics on Arctic permafrost coastlines., Estuaries and Coasts, , Accepted

Lantuit, H., Overduin, P.P., Couture, N., Wetterich, S., Aré, F., Atkinson, D., Brown, J., Cherkashov, G., Drozdov, D., Forbes, D.L., Graves-Gaylord, A., Grigoriev, M., Hubberten, H.W., Jordan, J., Jorgenson, T., Ødegård, S., Stanislav. O., Pollard, W.H., Rachold. R., Sedenko, S., Solomon, S., Steenhuisen, S., Streletskaya, I. and Vasiliev, A, 2011, The Arctic Coastal Dynamics database: a new classification scheme and statistics on Arctic permafrost coastlines, Estuaries and Coasts, doi:10.1007/s12237-010-9362-6 (preprint on-line), , Accepted

Lantuit, H., Pollard, W.H., Couture, N., Fritz, M., Schirrmeister, L., Meyer, H and Hubberten, H.-W., 2011, Modern and Late Holocene retrogressive thaw slump activity on the Yukon Coastal Plain and Herschel Island, Yukon Territory, Canada, Permafrost and Periglacial Processes, , Accepted

Lantuit, H., Pollard, W.H., Couture, N., Fritz, M., Schirrmeister, L., Meyer, H. and Hubberten, H.W, 2012, Modern and Late Holocene retrogressive thaw slump activity on the Yukon Coastal Plain and Herschel Island, Permafrost and Periglacial Processes, v. 23 no.1, 39-51, Published

Lau, M., Stackhouse, B., Layton, A., Chauhan,A. , Vishnivetskaya, T., Chourey, K., Ronholm, J., Mykytczuk, N., Bennett, B., Lamarche-Gagnon, G., Burton, N., Pollard, W. , Omelon, C., Medvigy, D., Hettich, R., Pfiffner, S., Whyte, L., and Onstott, T., 2014, An active atmospheric methane sink in high Arctic mineral cryosols, ISME Journal, , Accepted

Lenz, J., Fritz, M., Schirrmeister, L., Lantuit, H., Wooller, M., Pollard, W.H., and Wetterich, S., 2013, Periglacial Landscape Dynamics in the Western Canadian Arctic: Results from a Thermokarst Lake Record on a Push Moraine., Palaeogeography, Palaeoclimatology, Palaeoecology, 15-25, Published

Lesack, L.F.W., Marsh, P., Hicks, F.E. and Forbes, D.L., 2012, Timing, duration, and magnitude of peak annual water levels during ice beakup in the Mackenzie Delta and the role of river discharge, Water Resources Research, , Submitted

Lesack, L.F.W., Marsh, P., Hicks, F.E. and Forbes, D.L., 2013, Timing, duration, and magnitude of peak annual water levels during ice breakup in the Mackenzie Delta and the role of river discharge, Water Resources Research, v. 49, 8234-8249, Published

McLennan, D., Bell, T., Berteaux, D., Chen, W., Copland, L., Fraser, R., Gallant, D., Gauthier, G., Hik, D., Krebs, C.J., Myers-Smith, I., Olthof. I., Reid, D., Sladen, W., Tarnocai, C., Vincent, W., and Zhang, Y., 2012, Climate-related Terrestrial Biodiversity Research in Canada's Arctic National Parks: Review, Summary and Management Implications., Biodiversity, v. 13, 157-173, Published

Ogorodov, S.A., Arkhipov, V.V., Kokin, O.V., Marchenko, A.V., Overduin, P.P. and Forbes, D.L., 2013, Ice effect on coast and seabed in Baydaratskaya Bay, Kara Sea, Geography, Environment, Sustainability, v. 6, no. 3, 21-37, Published

Riedlsperger, R., Goldhar, C., Sheldon, T. and Bell, T., 2014, Meanings and means of 'sustainability': An example from the Inuit Settlement Region of Nunatsiavut northern Labrador., Sustainability Science., , Submitted

Simon, K.M. and James, T.S., 2014, A New Glacial Isostatic Adjustment Model of the Innuitian Ice Sheet, Arctic Canada, Quaternary Science Review, , Submitted

Simon, K.M., James, T.S., Forbes, D.L., Telka, A.M., Dyke, A.S., and Henton, JA, 2014, A relative sea level history for Arviat, Nunavut, and implications for Laurentide Ice Sheet thickness west of Hudson Bay., Quaternary Research, , Submitted

Simon, K.M., James, T.S., Forbes, D.L., Telka, A.M., Dyke, A.S., and Henton, JA, 2014, A relative sea level history for Arviat, Nunavut, and implications for Laurentide Ice Sheet thickness west of Hudson Bay, Quaternary Research, 82 (1), 185-197, Published

Sloan, H.A., and Pollard W.H., 2014, Vegetation Rcovery Patterns Following Permafrost Disturbance in a Low Arctic Setting: Case Study of Herschel Island, Yukon, Canada, Arctic, Antarctic, and Alpine Research, , Submitted

Smith, I.R., 2014, Reconnaissance assessment of landscape hazards and potential impacts of future climate change in Kugluktuk, western Nunavut, Summary of Activities 2013, Canada-Nunavut Geoscience Office, Iqaluit, NU, 149-158, Published

Smith, I.R. and Forbes, D.L., 2014, Reconnaissance assessment of landscape hazards and potential impacts of future climate change in Cambridge Bay, westerm Nunavut, Summary of Activities 2013, Canada-Nunavut Geoscience Office, Iqaluit, NU, 159-170, Published

St-Hilaire, D., Forbes, D.L., Taylor, R.B. and Bell, T., 2011, Multi-temporal analysis of a gravel-dominated coastline in the central Canadian Arctic, Journal of Coastal Research, , Submitted

St-Hilaire-Gravel, D., Forbes, D.L. and Bell, T., 2014, Evolution and morphodynamics of a prograded beach-ridge foreland, northern Baffin Island, Canadian Arctic Archipelago, Geografiska Annaler, , Accepted

St-Hilaire-Gravel, D., Forbes, D.L. and Bell, T., 2015, Evolution and morphodynamics of a prograded beach-ridge foreland, northern Baffin Island, Canadian Arctic Archipelago, Geografiska Annaler A, , Accepted

St-Hilaire-Gravel, D., Forbes, D.L., and Bell, T., 2011, Multi-temporal analysis of a gravel-dominated coastline in the central Canadian Arctic, Journal of Coastal Research, doi:10.2112/JCOASTRES-D-11-00020.1 (pre-print on-line), , Accepted

St. Hilaire, D., Forbes, D.L., and Bell, T., 2012, Multi-Temporal Analysis of a Gravel-Dominated Coastline in the Central Canadian Arctic Archipelago., Journal of Coastal Research, v28, 421-441, Accepted

St. Hilaire, D., Forbes, D.L., and Bell, T., 2012, Evolution and morphodynamics of a prograded beach-ridge foreland, northern Baffin Island, Canadian Arctic Archipelago., Geografiska Annaler: Series A, Physical Geography., , Submitted

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

Way, R. Bell, T. and Barrand, N., 2013, An inventory and classification of the glaciers of the Torngat Mountains, northern Labrador, Canada., Journal of Glaciology, , Accepted

Way, R. Bell, T. and Barrand, N., 2014, An inventory and classification of the glaciers of the Torngat Mountains, northern Labrador, Canada., Journal of Glaciology, 60 (223), 945-956, Published

Wolf, J., Allice, I. and Bell, T., 2013, Values, climate change, and implications for adaptation: Evidence from two communities in Labrador, Canada., Global Environmental Change, v. 23, 548–562, Published

Wolf, J., Allice, I., Bell, T., 2012, Values, climate change, and implications for adaptation: Evidence from two communities in Labrador, Canada, Global Environmental Change, 10, Published

Wolf, J., Ilana, I., and Bell, T., 2012, Values, climate change, and implications for adaptation: Evidence from two communities in Labrador, Canada., Global Environmental Change, 15, Published

Other Refereed Contributions

Becker, M.S., and Pollard, W.H., 2014, Vegetation and permafrost interactions create wetland conditions in a polar desert oasis, Arctic Biodiversity Congress, , Accepted

Champalle, C., Sparling, E., Tudge, P., Riedlsperger, R., Ford, J., and Bell, T., 2013, Adapting the built environment in a changing northern climate: A review of climate hazard-related mapping and vulnerability assessments of the built environment in Canada's North to inform climate change adaptation., Report for Natural Resources Canada, Climate Change Impacts and Adaptation, 180, Published

Cowan, B., Bell, T., and Forbes, D.L., 2014, Shorelines beneath the sea: Evidence for rising sea-levels on eastern Baffin Island, NU., Coastal Zone Canada Conference, C7.2, Published

Cowan, B., Bell, T., and Forbes, D.L., 2014, Mapping the postglacial submergence of easternmost Baffin Island, Nunavut, Canada., Geological Society of America Meeting, 193, Published

Cray, H.A., 2012, A characterization of vegetation succession patterns related to retrogressive thaw slumps on Herschel Island, Yukon Territory, Canada., MSc Thesis, McGill University, Montreal Canada, , Accepted

Forbes, D.L., 2012, Glaciated coasts, Treatise on Estuarine and Coastal Science, v.3, chapter 9, , Accepted

Forbes, D.L. (Editor), 2011, State of the Arctic Coast 2010 - Scientific Review and Outlook, (http://arcticcoasts.org), 178 p., Published

Forbes, D.L. and Hansom, J.D., 2011, Polar coasts, Treatise on Estuarine and Coastal Science, v.3, chapter 12, , Accepted

Forbes, D.L. and Hansom, J.D., 2012, Polar coasts, Treatise on Estuarine and Coastal Science, v.3, chapter 10, , Accepted

Forbes, D.L., Bell, T., James, T.S. and Simon, K.M., 2014, Reconnaissance assessment of landscape hazards and potential impacts of future climate change in Arviat, southern Nunavut, Summary of Activities 2013, Canada-Nunavut Geoscience Office, 183-192, Published

Ford, J.D., Champelle, C., Tudge, P., Riedlsperger, R., Bell, T., and Sparling, E., 2013, Evaluating climate change vulnerability assessments: A case study of research focusing on the built environment in northern Canada., Mitigation and Adaptation Strategies for Global Change., , Accepted

Ford, J.D., Champelle, C., Tudge, P., Riedlsperger, R., Bell, T., and Sparling, E., 2014, Evaluating climate change vulnerability assessments: A case study of research focusing on the built environment in northern Canada., Mitigation and Adaptation Strategies for Global Change., 1, Published

Hansom, J.D., Forbes, D.L. and Etienne, S., 2014, Rock coasts of the polar and sub-polar regions, Rock Coasts of the World (ed. Kennedy, D.M., Stephenson, W.J.S. and Naylor, L.A.), 263-281, Published

James, T.S., 2011, Chapter 2.1 Physical State of the Circum-Arctic Coast, State of the Arctic Coast 2010 – Scientific Review and Outlook, 178 p, Published

James, T.S., Henton, J.A., Leonard, L.J., Darlington, A., Forbes, D.L. and Craymer, M., 2014, Relative Sea-level Projections in Canada and the Adjacent Mainland United States, Geological Survey of Canada, Open File 7737, 72, Published

James, T.S., Leonard, L.J., Darlington, A., Henton, J.A., Mazzotti, S., Forbes, D.L. and Craymer, M., 2014, Relative Sea-level Projections for Canadian Communities, Coastal Zone Canada, C7.1, Published

Kostylev, V., Thomas, J.S., Shaw, J., Forbes, D.L. and Whalen, D., 2014, Geoscience Foundation for Decision Support for Arctic Ports in Changing Climate, 11th International Conference on Hydroscience & Engineering Book of Abstracts, 375, 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, , Accepted

Lesack, L.F.W., Marsh, P., Hicks, F.E. and Forbes, D.L., 2014, Local spring warming drives earlier river-ice breakup in a large Arctic delta, Geophysical Research Letters, 41, 1560-1566, Published

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, 4th European Conference on Permafrost, EUCOP4_0025, Published

Shippee, N., Atkinson, D., Walsh J., Partain, J. Gottschalck, J., and Marra, J., 2013, Development of a Seasonal Extratropical Cyclone Activity Outlook for the North Pacific, Bering Sea, and Alaskan Regions., American Geophysical Union Fall Meeting, San Francisco, , Accepted

Simon, K.M., James, T.S., Henton, J.A., and Dyke, A.S., 2014, The thickness history of the northern sector of the Laurentide Ice Sheet: an assessment of glacial isostatic adjustment models, sea-level measurements, and vertical land motion rates, AGU Fall Meeting, G44A-07, Published

Smith, I.R., Irvine, M.L. and Bell, T., 2012, Surficial geology, Clyde River, Baffin Island, Nunavut [map 58], scale 1:10 000, doi:10.4095/289603, Canadian Geoscience Map 58, 1, Published

Smith, I.R., Irvine, M.L. and Bell, T., 2012, Periglacial and permafrost geology, Clyde River, Baffin Island, Nunavut [map 57], scale 1:10 000, doi:10.4095/289602, Geoscience Map 57, 1, Published

Smith, I.R., Irvine, M.L. and Bell, T., 2012, Surficial geology, Clyde River, Baffin Island, Nunavut, Geological Survey of Canada, Canadian Geoscience Map 58, scale 1:10 000., 1, Published

Smith, I.R., Irvine, M.L. and Bell, T., 2012, Permafrost and periglacial geology, Clyde River, Baffin Island, Nunavut, Geological Survey of Canada, Canadian Geoscience Map 57, scale 1:10 000., 1, Published

Whalen, D., Forbes, D.L., Fraser, P., Manson, G.K. and Nedimovic, M., 2014, Nearshore and harbout sedimentation, Tuktoyaktuk, Canada, Coastal Zone Canada Conference, C7.2, Published

Wolf, J., Allice, A., and Bell, T., 2012, Values and traditional practices in adaptation to climate change evidence from a Q method study in two communities in Labrador, Canada., In The Adaptive Challenge of Climate Change, , Submitted

Wolf, J., Allice, A., and Bell, T., 2013, Values and traditional practices in adaptation to climate change – Evidence from a Q method study in two communities in Labrador, Canada., In The Adaptive Challenge of Climate Change, edited by O'Brien, K. and Selboe, E.,, , Accepted

Wolter, J., Lantuit, H., Herzschuh, 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, EUCOP_0443, Published

Non-Refereed Contributions

Aitken, A., Bell, T., Edinger, E., and Cowan, B., 2013, Seabed habitat mapping in support of a mollusc fishery, eastern Baffin Island, Nunavut, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 116, Published

Allice, I.,Wolf, J., and Bell, T., 2012, The impact of changing and variable winter climate on the experience of freedom in two Labrador communities., International Polar Year Conference, Montréal, April 22-27, , Accepted

Angelopoulos, M.C., Pollard, W.H., Cray, H.A., Couture, N.J., Krautblatter, M. and Lantuit, H., 2012, Biogeophysical characterization of polycyclic thermokarst on Herschel Island, Yukon Territory., ArcticNet Scientific Meeting 2012, December 10-14 (poster), , Accepted

Atkinson, D. E., Eerkes-Medrano, L., Shippee, N.J. and Khalilian, V.H., 2014, Working with Northern Residents to Link Local Problem Weather into the Large Scale, Arctic Change Conference, Oral Abstracts, 5, Published

Bagnall, B., Bell, T., Forbes, D.L., Tagalik, S. and Panegoniak, J., 2014, Spatial variability of hazard risk to infrastructure, Arviat, Nunavut, Arctic Change Conference, Poster Abstracts, 6, Published

Becker, M. S., Lapointe, N., and Gibbs, K., 2014, The role of science in evidence-based decision making, Canadian Association of Environmental Law Societies (CAELS) Conference, , Accepted

Becker, M.S, and Pollard, W.H., 2013, A case study of High Arctic anthropogenic disturbance to polar desert permafrost and ecosystems, American Geophysical Union, Fall Meeting, San Francisco, USA, B33D-0517, Published

Becker, M.S., & Pollard, W.H., 2014, Ice wedge thermokarst leads to greater heterogeneity of Arctic ecosystems, Arctic Change Conference, Oral Abstracts, 14, Published

Becker, M.S., and Evans, P., 2014, Arctic wildlife in a warming world, Wildscreen Film Festival, , Accepted

Becker, M.S., and Pollard, W.H., 2013, Case study: high Arctic anthropogenic disturbance to polar desert ice-wedges and their ecosystems, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 178, Published

Bell, T. and Wolf, A.J., 2012, Knowledge to action in remote communities of Labrador: Reports from the field., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Bell, T., Leblanc P., Hachey K., Healey C., Tremblay M., Ford J., Tagoona K., Loring E., and Shirley J., 2012, ArcticNet's Eastern Arctic Integrated Regional Impact Study (IRIS-2): Building communication networks, Engaging scientists and decision makers, Cultivating knowledge to action., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Bell, T., Way, R. Chadbourn, J., Melanson, A., Barrand, N.E., and Sharp, M.J, 2012, Fifty years of glacier change in the Torngat Mountains, Labrador, Canada., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Carter, J., Bell, T. and Forbes, D.L., 2014, Potential effects of climate change on landscape stability and community infrastructure in Kugluktuk, Arctic Change Conference, Poster Abstracts, 27, Published

Couture, N.J., D.E. Atkinson, D.L. Forbes, P. Fraser, T.S. James, K.A. Jenner, G.K. Manson, B. Szlavko, R.B. Taylor, and D. Whalen, 2012, Coastal Stability Assessment in the Canadian Arctic, International Polar Year Conference, Montréal, April 22-27, , Accepted

Couture, N.J., Manson, G.K., Forbes, D.L., Fraser, P., Frobel, D., James, T.S., Jenner, K.A., Smith, C., Szlavko, B., Taylor, R.B. and Whalen, D., 2013, CanCoast: a tool for helping to assess climate change vulnerability and impacts of development in Canada's Arctic, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 40, Published

Cowan, B., Bell, T., and Forbes, D., 2013, Evidence for the submerged postglacial sea-level lowstand of eastern Baffin Island, Nunavut, Canadian Association of Geographers Annual Meeting, St. John's, NL, Canada, 106, Published

Cowan, B., Bell, T., and Forbes, D., 2013, Coastal dynamics of an Arctic shoreline below sea level, Broughton Channel, Nunavut, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 132, Published

Cowan, B., Bell, T., and Forbes, D.L, 2012, A first look at the submerged postglacial sea-level record of eastern Baffin Island, Nunavut., ArcticNet Scientific Meeting 2012, December 10-14 (poster), , Accepted

Cowan, B., Bell, T., and Forbes, D.L., 2014, Uncovering the submerged sea-level history of Cumberland Peninsula, Baffin Island, Nunavut., Arctic Change Conference, Oral Abstracts, 41, Published

Deering, R., Bell, T. and Forbes, D.L., 2014, Nature and triggers of submarine mass failure in coastal waters of southeastern Baffin Island, Nunavut, Arctic Change Conference, Poster Abstracts, 37, Published

Edinger, E., Aitken, A., and Bell, T., 2013, Mapping nearshore marine habitats of Arctic Bay, Nunavut: influences of geologic inheritance, climate change, and anthropogenic impacts, Canadian Association of Geographers Annual Meeting, , Accepted

Edinger, E., Aitken, A., Bell, T., and Gobbie, M., 2012, Bedrock and surficial geology influence on benthic marine habitats, and sensitivity to climate change and anthropogenic effects: Arctic Bay, Northwest Baffin Island., International Polar Year Conference, Montréal, April 22-27, , Accepted

Ednie, N., and Pollard, W.H., 2014, Accessible science: a hands on field course for Northern students, Arctic Change Conference, Poster Abstracts, 45, Published

Forbes D.L, T. Bell, Hughes Clarke J., Edinger E., Allard M., Cowan J.E.C., Hatcher S.V, LeBlanc A.-M., Manson G.K., Short N., Smith I.R., and St-Hilaire-Gravel D., 2012, Landscape and seabed mapping for safe and sustainable Eastern Arctic (IRIS -2) communities., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Forbes, Bell, T., D.L, Smith, I.R., James, T.S., Manson, G.K., and St. Hilaire-Gravel, D., 2012, Landscape instability in Nunavut coastal communities., International Polar Year Conference, Montréal, April 22-27, , Accepted

Forbes, D.L., Amundsen, H., Atkinson, D.E.. Bell, T., Couture, N.J., Gearheard, S., Kraev, G., Larsen, J.N., Overduin, P.P., Petrov, A., Rasmussen, R.O., Schweitzer, P., Sheldon, T. and Vlasova, T., 2014, Circumpolar Arctic Coastal Communities Observatory Network (CACCON), Arctic Change Conference, Oral Abstracts, 64-65, Published

Forbes, D.L., Fraser, P.R. and Whalen, D.J.R., 2014, Riding the flood wave: participatory tracking of spring breakup in the Mackenzie Delta and Beaufort Sea, Arctic Change Conference, Oral Abstracts, 65, Published

Forbes, D.L., Lavergne, J.C., Craymer, M.R., Frobel, D. and Mazzotti, S., 2011, Coastal and geodetic surveys in Aulavik National Park, Banks Island, NWT, 2003-2009, Report to Parks Canada, Western Arctic Field Unit, Inuvik, NWT, 28 p., Published

Forbes, D.L., Leach, M., Allard, M., Campbell, R., Hatcher, S.V., LeBlanc, A.-M., Manson, G.K. and Short, N., 2012, Implications of landscape hazards and climate change for sustainability in an Arctic coastal municipality, Caribbean Conference 50-50: Surveying the Past, Mapping the Future, Grand Cayman, Cayman Islands, March 2012, , Accepted

Forbes, D.L., Whalen D.J.R., Jacobson, B., Fraser, P., Manson, G.K., Couture, N.J. and Simpson, R., 2013, Co-design of coastal risk assessment for subsistence infrastructure in the Inuvialuit Settlement Region, western Arctic Canada, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 141-142, Published

Forbes, D.L., Whalen, D., Craymer, M.R., James, T.S., Couture, N.J., Jenner, K.A., Manson, G.K. and Marsh, P., 2012, Stability and ecological integrity of the Mackenzie Delta, International Polar Year Conference, Montréal, April 22-27 (poster), , Accepted

Fritz, M., Herzschuh, U., Wetterich, S., Pollard, W.H. and Lantuit, 2012, 16,000 years of climate and environmental change from east Beringia (Northern Yukon Territory, Canada), Internation Polar Year Conference, Montreal, April 22-27, , Accepted

Fritz, M., Lantuit, H., Meyer, H., Opel, T., Couture, N. and Pollard, W.H, 2012, Dissolved Organic Carbon (DOC) in Ground Ice: Is It Significant?, Tenth International Conference on Permafrost, Salekhard, Russia, 25 June 2012, , Accepted

Fritz, M., Tanski, G. , Herzschuh, U., Couture, N. J., Opel, T., Meyer, H. and Lantuit, H., 2014, Mobilization of dissolved organic carbon (DOC) from permafrost due to arctic coastal erosion, 4th European Conference on Permafrost, EUCOP4_0066, Published

Fritz, M., Tanski, G., Herzschuh, U., Couture, N. J., Opel, T. , Meyer, H. and Lantuit, H., 2014, Arctic coastal erosion mobilizes dissolved organic carbon (DOC) from permafrost, Arctic in Rapid Transition workshop, Integrating spatial and temporal scales in the changing Arctic System: towards future research priorities (ISTAS), Book of Abstracts, 64, Published

Fritz, M., Wetterich, S., Schirrmeister, L., Meyer, H., Lantuit, H. and Pollard, W.H, 2012, Coastal permafrost landscape development in the northern Yukon – East Beringia vs. Laurentide Ice – From Knowledge to Action, Internation Polar Year Conference, Montréal, April 22-27, , Accepted

Goldhar, C., Sheldon, T., Bell, T., Furgal, C., Allice, I., Knight, J., Kouril, D., and Riedlsperger, R., 2012, SakKijânginnatuk Nunalik: Understanding opportunities and challenges for sustainable communities in Nunatsiavut, Learning from the coast., (poster), , Accepted

Harder, S., Roulet, N., Strachan, I., Crill, P., Pollard, W.H., Pelletier, L., Watt, C. and Persson, A., 2014, Interpreting carbon fluxes from a spatially heterogeneous peatland with thawing permafrost: scaling from plant community scale to ecosystem scale, Arctic Change Conference, Poster Abstracts, 71, Published

Hatcher, S.V., Forbes, D.L. and Manson, G.K., 2011, Coastal Hazard Assessment for Adaptation Planning in an Expanding Arctic Municipality, C-Change Working Paper, no.23 (http://www.coastalchange.ca), 15 p., Published

Hatcher, S.V., Forbes, D.L. and Manson, G.K., 2012, Changing exposure to coastal hazards in Iqaluit, Nunavut, International Polar Year Conference, Montréal, April 22-27, , Accepted

James, T., Simon, K., Forbes, D., Dyke, A., Carriere, S., and Mate, D., 2012, Projections of Relative Sea-level Change for the Northwest Territories and Nunavut, International Polar Year Conference, Montréal, April 22-27, , Accepted

James, T.S., D. Burgess, G. Cogley, A. Darlington, J. Henton, D. Forbes, A.S. Dyke, and D. Mate, 2012, Vertical land motion, sea-level fingerprinting, and projections of relative sea-level change in northern Canad, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

James, T.S., Simon, K.M., Forbes, D.L., Dyke, A.S., 2011, Sea-level Change in Arviat, Changing Times, Impacts and Adaptation in Nunavut, 1, Published

James, T.S., Simon, K.M., Forbes, D.L., Dyke, A.S. and Mate, D., 2011, Sea-Level Projections for Five Pilot Communities of the Nunavut Climate Change Partnership, Geological Survey of Canada, Open File 6715, iv+23 p., Published

James, T.S., Simon, K.M., Forbes, D.L., Dyke, A.S., Carriere, S., and Mate, D., 2012, Sea-Level Change in Arctic Canada, Nunavut, Mining Symposium, April 16-19, 2012, Iqaluit, Nunavut., , Accepted

Knight J., Furgal, C., Sheldon, T. and Goldhar, C., 2012, A literature review and concept map for Arctic Communities., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Konopczak, A.M., Manson, G.K. and Couture, N.J., 2014, Variability of Coastal Change along the Western Yukon coast, Geological Survey of Canada, Open File 7516, , Accepted

Konopczak, A.M., Manson, G.K., Couture, N. and Lantuit, H., 2014, Variability in Arctic coastal erosion along awestern Yukon coast, Arctic Change Conference, Poster Abstracts, 93, Published

Laing, R., Briggs, R., Angnatok J., Angnatok, D., Sheldon T., Bell, T, 2013, Responding to sea ice variability in Nunatsiavut: Mapping sea ice hazards to build tools for climate change adaptation. In SakKijânginnatuk Nunalik: Understanding the risks and developing best practices for sustainable communities in Nunatsiavut, edited by Goldhar C., Sheldon, T., Bell T., Nunatsiavut Government, Nain, NL,, 130-141, Published

Lantuit, H., 2013, Why are the frozen Arctic coasts eroding so fast?, Global Change Seminar, School of Geosciences, University of Edinburgh, Edinburgh, Scotland, , 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, Arctic Change Conference, Poster Abstracts, 99, Published

Lantuit, H., Couture, N., Fritz, M., Pollard, W., Overdiun, P., Grosse, G., Schirrmeister, L. and Wetterich,, 2012, Organic carbon release from coastal erosion on ice-rich permafrost coasts: A comparison of the southern Laptev Sea and the southern Beaufort Sea., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Lantuit, H., Fritz, M., Krautblatter, M., Angelopoulos, M. and Pollard, W. H., 2013, What triggers retrogressive thaw slumps in the Arctic coastal zone?, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 75-76, Published

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, , Accepted

Legere, C.L., Bell, T., Hughes Clarke, J., Dethlefsen, S, and Edinger, E.N, 2012, Seabed Mapping in Support of Downstream-Effects Research and Monitoring in lake Melville, a Subarctic Estuary in Central Labrador, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Manson, G.K., D. Whalen, P. Fraser, K.A. Jenner, D.L. Forbes, and T.S. James, 2012, Compilation of coastal geoscience information for environmental assessment in the Beafort Sea, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Misiuk, B., Bell, T., Edinger, E., Aitken, A., Baillon, S., Cowan, B., Forbes, D.L., Kennedy, J., Flaherty, A. and Keyookta, J., 2014, Mapping clam habitat in the Arctic: baseline data for fisheries assessment and management, Arctic Change Conference, Poster Abstracts, 116, Published

Neves, B., Edinger, E., Hillaire-Marcel, C., Treble, M., and Wareham, V., 2013, In-Situ Survey of a Deep-Water Bamboo Coral Forest in SE BAffin Bay, Nunavut, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, , Accepted

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, , Accepted

Parewick, K., Bell, T. and Ford, J., 2013, Coastal climate change in Canada's North: a systematic review, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 175, Published

Pollard, W.H., 2013, The role of ground ice in changing Arctic landscapes – a comparison of two ice-rich permafrost systems, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 178-179, Published

Pollard, W.H. and Becker, M., 2013, Thawing ground ice: landscape dynamics in the Eureka Sound Lowlands, Canadian High Arctic., Arctic Observing Summit, Vancouver, BC, Canada, , Accepted

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, TerraSAR-X Science Team Meeting, Oberpfaffenhofen, Germany, , Accepted

Radosavljevic, B., Lantuit, H. and Fritz, M., 2012, Sediment and carbon dynamics in the nearshore zone: Herschel Island, Yukon Territory., ArcticNet Scientific Meeting 2012, December 10-14, , 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, Halifax, NS, Canada, 180, Published

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, Halifax, NS, Canada, 98, Published

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, , Accepted

Riedlsperger, R., 2014, Sustainability' in an Inuit context: An example from Nunatsiavut, northern Labrador, Arctic-FROST Annual Meeting, , Accepted

Riedlsperger, R. and Bell, T., 2014, Northern Coastal Sustainability: sustainability of what, for whom, and how?, Arctic Change Conference, Oral Abstracts, 159, Published

Riedlsperger, R. and Bell, T., 2014, Building frameworks for building sustainable communities: An example from Nunatsiavut, northern Labrador., 8th International Congress of Arctic Social Sciences, 84, 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, Arctic Change Conference, Poster Abstracts, 150, Published

Simon, K. M., James, T.S., Dyke, A. S., and Forbes, D. L., 2012, Improving the Relative Sea-level History and Glacial Isostatic Adjustment Models along the Northwest Coast of Hudson Bay., International Polar Year Conference, Montréal, April 22-27, , Accepted

Simon, K.M., James, T.S., Dyke, A.S., Forbes, D.L., and Henton, J.A, 2012, Glacial Isostatic Adjustment in Northern Canada: Improving Innuitian and Laurentide Ice Sheet Reconstructions Using Relative Sea-Level and GPS Data, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Simon, K.M., James, T.S., Dyke, A.S., Forbes, D.L., and Henton, J.A., 2012, Regional Analysis of Glacial Isostatic Adjustment in Northern Canada: Improvements to the Laurentide Ice Sheet History Constrained by Relative Sea-Level and GPS Data, AGU Fall Meeting, San Francisco, CA, Dec. 3-7, 2012, , Accepted

Simon, K.M., James, T.S., Henton, J.A., and Dyke, A.S., 2014, Measurements of paleo sea-level change and present-day vertical land motion as GIA model constraints on the evolution of the northern sector of the Laurentide Ice Sheet, Wegener General Assembly, 92, Published

Simpson, J., Pollard, W.H. and Cray-Sloan, H., 2012, Erosion of Retrogressive Thaw Slumps A, B, and C, Herschel Island, YT, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Sloan, H. and Pollard, W.H., 2012, Vegetation Patterns of Stabilized Retrogressive Thaw Slumps, Herschel Island, Northern Yukon., Tenth International Conference on Permafrost, Salekhard, Russia, 25 June 2012, , Accepted

Spada, G., Barletta, V. R., Klemann, V., van der Wal, W., James, T. S., Simon, K., Riva, R. E. M., Martinec, Z., Gasperini, P., Lund, B., Wolf, D., Vermeersen, L. L. A., and King, M. A, 2012, Benchmarking and Testing the "Sea Level Equation": the COST ES0701 Experience, European Geoscience Union General Assembly, April 22-27, Vienna, Austria, , 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, EUCOP4_0019, Published

Tanski, G., Fritz, M. and Lantuit, H., 2012, Release of dissolved organic carbon (DOC) from coastal erosion in the southern Canadian Beaufort Sea, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Teschner, C., Lantuit, H., Krautblatter, M., Fritz, M. and Pollard, W. H, 2012, The influence of climate and topography on discharge from retrogressive thaw slumps: Implications for sediment release to aquatic environments, Internation Polar Year Conference, Montréal, April 22-27, , Accepted

Ward, M., and Pollard, W.H., 2014, Recent retrogressive thaw slump activity in the Eureka Area, Ellesmere Island, Nunavut, Arctic Change Conference, Poster Abstracts, 171, Published

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

Ward, M., Pollard, W.H. and Omelon, C., 2014, Hyper-saline spring activity on Axel Heiberg Island, Nunavut. Poster Presentation, Arctic Change Conference, Poster Abstracts, 172, Published

Ward, M.K., and Pollard, W.H., 2013, The Geomorphology of Two Hyper-saline Springs in the Canadian High Arctic: Preminary Observations and Results, American Geophysical Union, San Francisco, USA., , Accepted

Ward, M.K., Pollard, W.H. and Omelon, C.R., 2013, The geomorphology of two hyper-saline springs in the Canadian High Arctic: preliminary observations and results, ArcticNet Annual Scientific Meeting, Halifax, NS, Canada, 192, Published

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, EUCOP4_0410, Published

Weege, S. and Lantuit, H, 2012, Process study of a retrogressive thaw Slump on Herschel Island, Yukon Coast, ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Whalen, D., Forbes, D.L., Nedimovic, M. and Kostylev, V., 2014, Sedimentation in Tuktoyaktuk Harbour and approaches, Northwest Territories, Arctic Change Conference, Oral Abstracts, 198, Published

Whalen, D., Fraser, P., Forbes, D.L., Manson, G.K., Hynes, S., James, T.S., Szlavko, B. and Couture, N.J., 2014, Coastal Change In The Canadian Beaufort Sea – Findings And Observations Based On The Synthesis Of Coastal Geoscience Data To Support Brea, Arctic Change Conference, Oral Abstracts, 197, Published

Wolf, A.J., and Bell, T., 2012, Knowledge to action in remote communities of Labrador: Reports from the field., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Wolter, J., Herzschuh, U. and Lantuit, H., 2014, A Late Holocene palaeoenvironmental lake record from the Yukon Coastal Plain, NW Canada, 9th European Palaeobotany and Palynology Conference, , Accepted

Wolter, J., Lantuit, H., Herzchuh, U. and Fritz, M., 2012, Climatic and environmental change on the Yukon coastal plain during the last 2000 years – preliminary results., ArcticNet Scientific Meeting 2012, December 10-14, , Accepted

Specialized Publications

Bell, T., Finnis, J. and Riedlsperger, R., 2013, Climate Scenarios for the Built Environment in Nunatsiavut: Review of Available Data and Relevance for Adaptation Planning;, Learning from others: Recommendations for best practices in adaptation of the built environment to changing climate and environment in Nunatsiavut, 7-39, Published

Bell, T., Putt, M. and Sheldon, T., 2011, Landscape Hazard Assessment in Nain: Phase I: Inventory of Surficial Sediment types and Infrastructure Damage, Final Report to Nunatsiavut Government and Nain Inuit Community Government, 22p, Published

Brown, B.R., Lemay, M., Allard, M., Barrand, N.E., Barrette, C., Begin, 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 (Nunavut and Nunatsiavut)., Climate variability and change in the Canadian Eastern Subarctic IRIS region (Nunavut and Nunatsiavut)., 57-93, Published

Bush, E., J. Loder, T.S. James, 2012, Overview of Climate Trends and Projections for Canada, 2013 National Assessment Update, Climate Change Impacts and Adaptation Division, , Submitted

Couture, N., Pollard, W.H. and Lantuit, H, 2012, Coastal Environment, Herschel Island Qikiqtaryuk: A Natural and Cultural History of Yukon's Arctic Island, Herschel Island Qikiqtaryuk: A Natural and Cultural History of Yukon's Arctic Island, Wildlife Management Advisory Council (North Slope), 138, Published

Couture, N.J., Forbes, D.L., Fraser, P., Frobel, D., Jenner, K., Manson, G., Solomon, S., Szlavko, B., Taylor, R. and Whalen, D., 2015, A Coastal Information System for the western Beaufort Sea, Yukon and Northwest Territories, Geological Survey of Canada, Open File 7778, 1, Published

Goldhar, C., 2012, Water ways: vulnerability to freshwater changes in the Inuit Settlement Region of Nunatsiavut, Labrador, MA thesis, 120 p, Published

Goldhar, C., Andersen, T., Community Members of Nain, Bell, T., Sheldon, T., Furgal, C., Allice, I., 2012, SakKijânginnatuk Nunalik: Understanding opportunities and challenges for sustainable communities in Nunatsiavut, Learning from the coast - Nain workshop report., Nunatsiavut Government, 14, Published

Goldhar, C., Andersen, T., Gear, D., Jacques, H., Piercey, W., Woolfrey, C., Bell, T., Sheldon, T., Furgal, C., 2012, Sustainable Communities Joint Management Committee Workshop Report., Nunatsiavut Government, 17, Published

Goldhar, C., Bell, T., Sheldon, T. and Karpik, S., 2011, Assessing the Vulnerability of Drinking Water Systems in Nunatsiavut, Labrador, Final Report to Nunatsiavut Government and Nain Inuit Community Government, 30 p, Published

Goldhar, C., Gear, D., Community Members of Postville, Bell, T.,Sheldon, T., Furgal, C., Knight, J., Kouril, D., Riedlsperger, R., 2012, SakKijânginnatuk Nunalik: Understanding opportunities and challenges for sustainable communities in Nunatsiavut, Learning from the coast - Postville workshop report., Nunatsiavut Government, 14, Published

Goldhar, C., Jacques, H., Community Members of Makkovik, Bell, T., Sheldon, T., Furgal, C., Knight, J., Kouril, D., Riedlsperger, R., 2012, SakKijânginnatuk Nunalik: Understanding opportunities and challenges for sustainable communities in Nunatsiavut, Learning from the coast - Makkovik workshop report., Nunatsiavut Government, 13, Published

Goldhar, C., Piercey, W., Community Members of Hopedale, Bell, T., Sheldon, T., Furgal, C., Allice, I., 2012, SakKijânginnatuk Nunalik: Understanding opportunities and challenges for sustainable communities in Nunatsiavut, Learning from the coast - Hopedale workshop report., Nunatsiavut Government, 11, Published

Goldhar, C., Sheldon, T. and Bell, T., 2013, SakKijânginnatuk Nunalik: Understanding the risks and developing best practices for sustainable communities in Nunatsiavut., Nain Research Centre, Report 13-01, 303, Published

Goldhar, C., Sheldon, T. and Bell, T., 2013, Learning from others: Recommendations for best practices in adaptation of the built environment to changing climate and environment in Nunatsiavut, Nain Research Centre Report 13-01, 303, Published

Goldhar, C., Woolfrey, C., Community Members of Rigolet, Bell, T., Sheldon, T., Furgal, C., Knight, J., Kouril, D., Riedlsperger, R., 2012, SakKijânginnatuk Nunalik: Understanding opportunities and challenges for sustainable communities in Nunatsiavut, Learning from the coast - Rigolet workshop report., Nunatsiavut Government, 15, Published

Hatcher, S.V., Forbes, D.L. and Manson, G.K., 2014, Coastal Geoscience Fieldwork near Iqaluit, Nunavut, 2009-2011, Geological Survey of Canada, Open File 7653, 65, Published

Hughes Clarke, J.E., Muggah, J., Renoud, W., Bell, T., Forbes, D.L., Cowan, B. & Kennedy, J., 2015, Reconnaissance seabed mapping around Hall and Cumberland peninsulas, Nunavut: opening up southeast Baffin Island to nearshore geological investigations, Summary of Activities 2014, Canada-Nunavut Geoscience Office, 133-144, Published

Hynes, S., Solomon, S.M., Forbes, D.L., Whalen, D. and Manson, G.K., 2014, GIS Compilation of Coastline Variability Spanning 60 Years, Western Beaufort Sea, Yukon and Northwest Territories, Geological Survey of Canada, Open File 7552, 8, Published

James, T.S., Whalen, D.J.R., Jenner, K.A., Hatcher, S.V., Ulmi, M., Forbes, D.L., Manson, G.K., Henton, J. and Craymer, M.R., 2013, Coastal geoscience for sustainable development in Nunavut: 2012 activities, Summary of Activities 2012, Canada-Nunavut Geoscience Office, , Submitted

Mate, D.J., Campbell, D.C., Barrie, V., Hughes Clarke, J., Muggah, J., Bell, T. and Forbes, D.L., 2015, Integrated seabed mapping of Frobisher Bay, Nunavut, to support infrastructure development, exploration, and natural hazard assessment, Summary of Activities 2014, Canada-Nunavut Geoscience Office, 145-152, Published

Simon, K.M., 2014, Improved Glacial Isostatic Adjustment Models for Northern Canada, PhD Dissertation, 222, Published

Simpson, J., 2013, Erosion of Retrogressive Thaw Slumps, Herschel Island, YT., B.A. Thesis, McGill University, Montreal, Canada., , Accepted

St-Hilaire-Gravel, D., 2011, Arctic Gravel Beach Morphodynamics under Changing Relative Sea Level and Environmental Forcing, Canadian Arctic Archipelago, PhD thesis, 185, Published