

2007 Refereed Publications / Articles publiés avec comité de lecture

Antoniades, D., Crawley, C., Douglas, M.S.V., Pienitz, R., Andersen, D., Doran, P.T., Hawes, I., Pollard, W., Vincent, W.F., 2007, Abrupt Environmental Change in Canada's Northernmost Lake Inferred From Diatoms and Fossil Pigments, *Geophysical Research Letters* 34, L18708, doi:10.1029/2007gl030947, American Geophysical Union Published

Antoniades, D., Crawley, C., Douglas, M.S.V., Pienitz, R., Andersen, D., Doran, P.T., Hawes, I., Pollard, W., Vincent, W.F., 2007, Reply to Comment by K. Gajewski on "Abrupt Environmental Change in Canada's Northernmost Lake", *Geophysical Research Letters* 34, L08702, doi:10.1029/2007gl 032889, American Geophysical Union Published

Audet, B., Gauthier, G., Lévesque, E., 2007, Feeding Ecology of Greater Snow Goose Goslings in Mesic Tundra on Bylot Island, Nunavut, Canada, *The Condor* 109:361-376, Cooper Ornithological Society Published

Audet, B., Lévesque, E., Gauthier, G. 2007, Seasonal Variation in Plant Nutritive Quality for Greater Snow Goose Goslings in Mesic Tundra, *Canadian Journal of Botany* 85:457-462, Cooper Ornithological Society Published

Belt, S.T., Massé, G., Rowland, S.J., Poulin, M., Michel, C., Leblanc, B., 2007, A Novel Chemical Fossil of Palaeo Sea Ice: IP25, *Organic Geochemistry* 38:16-27, Elsevier Published

Bull, K., Basu, N., Zhang, S., Martin, J.W., Bursian, S., Martin, P., Chan, L.H.M., 2007, Dietary and in Utero Exposure to a Pentabrominated Diphenyl Ether Mixture Did Not Affect Cholinergic Parameters in the Cerebral Cortex of Ranch Mink (*Mustela Vison*), *Toxicological Sciences* 96:115-112, Society of Toxicology Published

Careau, V., Giroux, J.-F., Berteaux D., 2007, Cache and Carry: Hoarding Behavior of Arctic Fox, *Behavioural Ecology and Sociobiology* 62:87-96, Springer Berlin / Heidelberg Published

Carmichael, L.E., Krizan, J., Nagy, J.A., Fuglei, E., Dumond, M., Johnson, D., Veitch, A., Berteaux, D., Strobeck, C., 2007, Historical and Ecological Determinants of Genetic Structure in Arctic Canids *Molecular Ecology*:16:3466-3483, Blackwell Publishing Published

Carmichael, L.E., Szor, G., Berteaux, D., Giroux, M-A., Cameron, C., Strobeck, C., 2007, Free Love in the Far North: Plural Breeding and Polyandry of Arctic Foxes (*Alopex Lagopus*) on Bylot Island, Nunavut, *Canadian Journal of Zoology* 85:338-343, NRC Research Press Published

Chateau-Degat, M.-L., Dewailly, É., Poirier, P., Egeland, G.M., Gingras, S., Blanchet, C., 2007, Comparison of Three Diagnostic Criteria of Metabolic Syndrome in Three Canadian Populations, *Circulation*, 2007;115(8):E233, *Circulation* Published

Chateau-Degat, M.-L., Poirier, P., 2007, Insulin Resistance, Obesity and Hypertension: Is the Link Waist Circumference?, *Therapy* 4:575-583, Future Medicine Published

Constant, P., Poissant, L., Villemur, R., Yumvihoze, E., Lean, D., 2007, Fate of Inorganic Mercury and Methyl Mercury within the Snow Cover in the Low Arctic Tundra on the Shore of Hudson Bay (Quebec, Canada), *Journal of Geophysical Research* 112:D08309, doi:10.1029/2006JD007961, American Geophysical Union Published

Couture, N., Pollard, W.H., 2007, Modelling Geomorphic Response to Climatic Change, *Climatic Change* 85:407-431, Springer Published

Darnis, G., Barber, D.G., Fortier, L., 2007, Sea Ice and the Onshore-Offshore Gradient in Zooplankton Assemblages in Early Fall in South-Eastern Beaufort Sea, *Journal of Marine Systems* 74:994-1011, Elsevier B.V. Published

Dumas, J.A., Melling, H., and Flato, G.M., 2007, Late-Summer Pack Ice in the Canadian Archipelago: Thickness Observations From a Ship in Transit, *Atmosphere-Ocean* 45:57-70, Canadian Meteorological and Oceanographic Society Published

Ehn, J., Hwang, B.J., Galley, R., Barber, D.G., 2007, Investigations of Newly Formed Sea Ice in the Cape Bathurst Polynya: Part 1. Structural, Physical and Optical Properties, *Journal of Geophysical Research* 112:C05002, doi:10.1029/2006JC003702, American Geophysical Union Published

Fast, P.L., Gilchrist, H.G., Clark, R., 2007, Experimental Evaluation of Nest Shelter Effects on Weight Loss in Incubating Common Eiders, *Journal of Avian Biology* 38:205-213, *Journal of Avian Biology* Published

Ford, J.D., Pearce, T., Smit, B., Wandel, J., Allurut, M., Shappa, K., Ittusujurat, H., Qrunnut, K., 2007, Reducing Vulnerability to Climate Change in the Arctic: the Case of Nunavut, Canada, *Arctic* 60:150-166, The Arctic Institute of North America Published

Fortier, D., Allard, M., Shur, Y., 2007, Observation of Rapid Drainage System Development by Thermal Erosion of Ice Wedges on Bylot Island, Canadian Arctic Archipelago, *Permafrost and Periglacial Processes* 18:229-243, Wiley InterScience, Published

Fouilland, E., Gosselin, M., Rivkin, R.B., Vasseur, C. and Mostajir, B., 2007, Nitrogen Uptake by Heterotrophic Bacteria and Phytoplankton in Arctic Surface Waters, *Journal of Plankton Research* 29:369-376, NA, Accepted

Fujimura, K.E., Egger, K.N., Henry, H.R., 2007, The Effect of Experimental Warming on the Root-associated Fungal Community of *Salix arctica*, *The ISME Journal* 2:105-114, Nature Publishing Group Published

Galley, R.J., Barber, D.G. and Yackel, J., 2007, On the Link Between SAR-Derived Sea Ice Melt and Development of the Summer Upper Ocean Mixed Layer in the North Open Water Polynya, *International Journal of Remote Sensing* 28:3979-3994, Taylor and Francis Group Published

Gardner, A. S., Sharp, M., 2007, Influence of the Arctic Circumpolar Vortex on the Mass Balance of Canadian High Arctic Glaciers, *Journal of Climate* 20:4586-4598, American Meteorological Society Published

Garneau, M.-È., Gosselin, M., Klein, B. Tremblay J.-É., Fouilland, E., 2007, New and Regenerated Production During a Late Summer Bloom in an Arctic Polynya, *Marine Ecology Progress Series* 345:13-26, NA Published

Gearheard, S., Pocernich, M., Stewart, R.E., Sanguya, J., Huntington, H.P., 2007, Linking Inuit knowledge and Meteorological Station Observations to Understand Changing Wind Patterns at Clyde River, *Climatic Change* 100:1573-1480, Springer Published

Geldsetzer, T., Mead, J.B., Yackel, J.J., Scharien, R.K., Howell, S.E.L., 2007, Surface-Based Polarimetric C-Band Scatterometer for Field Measurements of Sea Ice, *IEEE Transactions on Geoscience and Remote Sensing* 45:3405-3416, IEEE Published

Gilchrist, H.G., M. L. Mallory, 2007, Comparing Expert-Based Science With Local Ecological Knowledge: What Are We Affraid Of?, *Ecology and Society* 12:R1. [Online] Url: [Http://www.ecologyandsociety.org/Vol12/Iss1/Resp1/](http://www.ecologyandsociety.org/Vol12/Iss1/Resp1/), Resilience Alliance Published

Granskog, M.A., Macdonald, R.W., Mundy, C.J., Barber, D.G., 2007, Distribution, Characteristics and Potential Impacts of Chromophoric Dissolved Organic Matter (CDOM) in Hudson Strait and Hudson Bay, Canada, *Continental Shelf Research* 27:2032-2050, Elsevier Published

Heath, J.P., Gilchrist, H.G., Ydenberg, R.C., 2007, Can Diving Models Predict Patterns of Foraging Behaviour? Diving by Common Eiders in an Arctic Polynya, *Animal Behaviour* 73:877-884, Elsevier Published

Higdon, J.W., Bininda-Emonds, O.R.P., Beck, R.M.B., Ferguson, S.H., 2007, Phylogeny and Divergence of the Pinnipeds (*Carnivora: Mammalia*) Assessed Using a Multigene Dataset, *BMC Evolutionary Biology* 7:216, BioMed Central Published

Holland, D.M., 2007, A 1-D Elastic-Plastic Sea-Ice Model Solved With an Implicit Eulerian-Lagrangian Method, *Ocean Modelling* 17:1-27, Elsevier Published

Hwang, B.J., Langlois, A., Barber, D.G., Papakyriakou, T.N., 2007, On Detection of the Thermophysical State of Landfast First-Year Sea Ice Using In-Situ Microwave Emission During Spring Melt, *Remote Sensing of Environment* 111:148-159, Elsevier Published

- Jin, X., Hanesiak J.M., Barber D.G., 2007, Time Series of Daily Averaged Cloud Fractions Over Landfast First-Year Sea Ice From Multiple Data Sources, *Journal of Applied Meteorology and Climatology*, 46:1818-1827 American Meteorological Society Published
- Jin, X., Hanesiak, J., Barber, D.G., 2007, Detecting Cloud Vertical Structures From Radiosondes and MODIS Over Arctic First-Year Sea Ice, *Atmospheric Research* 83:64-76, Elsevier Published
- Langlois, A., Barber, D.G., 2007, Passive Microwave Remote Sensing of Seasonal Snow Covered Sea Ice, *Progress in Physical Geography* 31:539-573, SAGE Publications Published
- Langlois, A., Mundy, C.J., Barber, D.G., 2007, On the Winter Evolution of Snow Thermophysical Properties Over Landfast First-Year Sea Ice, *Hydrological Processes* 21:705-716, doi:10.1002/Hyp.6407, Wiley Inter-Science Published
- Lecomte, N., Gauthier, G., Giroux, J.-F., 2007, Breeding Dispersal in a Heterogeneous Landscape: the Influence of Habitat and Nesting Success in Greater Snow Geese, *Oecologia* 155:33-41, Springer Berlin / Heidelberg Published
- Leitch D.R., Carrie J., Lean D., Macdonald R.W., Stern G.A., Wang F., 2007, The Delivery of Mercury to the Beaufort Sea of the Arctic Ocean by the Mackenzie River, *Science of the Total Environment* 373:178-195, Elsevier Published
- Lukovich, J.V., Barber, D.G., 2007, On the Spatiotemporal Behavior of Sea Ice Concentration Anomalies in the Northern Hemisphere, *Journal of Geophysical Research* 112:D13117, doi:10.1029/2006jd007836, Atmospheres, American Geophysical Union Published
- Luque, S.P., Higdon, J.W., Ferguson, S.H., 2007, Dentine Deposition Rates in Beluga (*Delphinapterus leucas*): an Analysis of the Evidence, *Aquatic Mammals* 33:241-245, European Association for Aquatic Mammals Published
- Manson, G.K., Solomon, S.M., 2007, Past and Future Forcing of Beaufort Sea Coastal Change, *Atmosphere-Ocean* 45:107-122, Canadian Meteorological and Oceanographic Society, Published
- Martin, D., Bélanger, D., Gosselin, P., Furgal, C., Déry, S., 2007, Drinking Water and Potential Threats to Human Health in Nunavik : Adaptation Strategies under Climate Change Conditions, *Arctic*:195-202, The Arctic Institute of North America Published
- Meunier, C., Sirois, L., Bégin, Y., 2007, Climate and *Picea mariana* Seed Maturation Relationships: a Multi-Scale Perspective, *Ecological Monographs* 77:361-376, ESA Publications Published

Mundy, C.J., Barber, D.G., Michel, C.M., Marsden, R.F., 2007, Linking Ice Microstructure and Microscale Variability of Algal Biomass in Arctic First-Year Sea Ice Using an in Situ Microphotographic Technique, *Polar Biology* 30:1099-1114, Springer Published

Mundy, C.J., Ehn, J., Barber, D.G., Michel, C., 2007, Influence of Snow Cover and Algae on the Spectral Dependence of Transmitted Irradiance Through Arctic Landfast First-Year Sea Ice, *Journal of Geophysical Research (Oceans)* 112:C03007, doi:10.1029/2006jc003683, American Geophysical Union Published

Omelson, C.R., Pollard, W.H., Ferris, F.G., 2007, Inorganic Species Distribution and Microbial Diversity within High Arctic Cryptoendolithic Habitats, *Microbial Ecology* 54:740-752, Springer Published

Outridge, P.M., Sanei, H., Stern, G.A., Hamilton, P.B., Goodarzi, F., 2007, Evidence for Control of Mercury Accumulation in Sediments by Variations of Aquatic Primary Productivity in Canadian High Arctic Lakes, *Environmental Science & Technology* 41:5259-5265, American Chemistry Society Publications Publications Published

Perkins, D., Smith, P.A., Gilchrist, H.G., 2007, Breeding Ecology of Ruddy Turnstones (*Arenaria interpres*) in the Eastern Canadian Arctic, *Polar Record* 43:135-142, Polar Record Published

Richmond, C., Ross, N., Egeland, G.M., 2007, Societal Support and Thriving Health: A New Approach for Understanding the Health of Indigenous Canadians, *American Journal of Public Health* 97:10,1827-1833, The American Public Health Association, Standford University Libraries, Published

Scharien, R.K., Yackel, J.J., Granskog, M.A., Else, B.G., 2007, Coincident High-resolution Optical-SAR Image Analysis for Surface Albedo Estimation of First-year Sea Ice During Summer Melt, *Remote Sensing of Environment* 111:160-171, Elsevier, Published

Sedlacek, J., Lemieux, J.F., Mysak, L.A., Tremblay, B.L., Holland D.M., 2007, The Granular Sea-Ice Model in Spherical Coordinates and Its Application to a Global Climate Model, *Journal of Climate* 20:5946-5961, American Meteorology Society Published

Smith, P. A., Gilchrist, H.G., Smith, J.N.M., 2007, Effects of Nest Habitat, Food, and Parental Behavior on Shorebird Nest Success, *The Condor* 109:15-31, The Cooper Ornithological Society Published

Smith, P. A., Gilchrist, H.G., Smith, J.N.M., Nol, E., 2007, Annual Variation in the Benefits of a Nesting Association Between Red Phalaropes and Sabine's Gulls, *The Auk* 124:276-290, American Ornithologist's Union Published

Storm-Suke A., Dempson, J. B., Caron, F. and Power, M., 2007, Effects of formalin and ethanol preservation on otolith $\delta^{18}\text{O}$ stable isotope signatures, *Rapid Communications in Mass Spectrometry* 21:503-508, Wiley Interscience Published

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Sushama, L., Laprise, R., Caya, D., Verseghy, D., Allard, M., 2007, A RCM projection A RCM projection of soil thermal and moisture regimes for North American permafrost zones, *Geophysical Research Letters* 34:L20711, doi:10.1029/2007GL031385, American Geophysical Union Published

Tivy, A., Alt, B., Howell, S.E.L., Wilson, K., Yackel, J.J., 2007, Long-Range Prediction of the Shipping Season on Hudson Bay: A Statistical Approach, *Weather and Forecasting* 22:1063-1075, American Meteorological Society, Published

Tomkins, J.D., Antoniadou, D., Lamoureux, S.F., Vincent, W.F., 2007, A Simple and Effective Method for Preserving the Sediment-Water Interface of Sediment Cores During Transport, *Journal of Paleolimnology* 40:577-582, Springer Published

Walker, R., Holland, D.M., 2007, A Two-Dimensional Coupled Model for Ice Shelf - Ocean Interaction, *Ocean Modelling* 17:123-139, Elsevier Published