







Fonds québécois de recherche sur la nature et les technologies  
 Government of Nunavut  
 Indian and Northern Affairs - International Polar Year  
 Indian and Northern Affairs Canada  
 Indian and Northern Affairs Canada - Northern Scientific Training Program  
 IPY Federal Program Office  
 Natural Resources Canada - Polar Continental Shelf Project  
 North American Falconers Association  
 Nunavut Arctic College - Kivalliq campus  
 Nunavut Wildlife Management Board  
 Parks Canada  
 Polar Continental Shelf Program  
 Sea Duck Joint Venture  
 The Kenneth M Molson Foundation  
 Université du Québec à Rimouski

## Publications

### Articles Published in Refereed Publications

Allard, K.A., Gilchrist, H.G. and Breton, A.R., 2010, Apparent survival of adult Thayer's and Glaucous Gulls nesting sympatrically in the Canadian high Arctic, *Ardea*, v.98, no.1, 43-50, Published

Berzins, L., Gilchrist, H. G., Matson, K. D., and Burness, G., 2010, Sex-specific effects of increased incubation demand on innate immunity in black guillemots., *Physiological and Biochemical Zoology*, , Accepted

Berzins, L., H. G. Gilchrist, and G. Burness. , 2009, No assortative mating based on size in Black Guillemots breeding in the Canadian Arctic, *Waterbirds*, 32: 459-463, Published

Buttler, I. Gilchrist, H. G., Descamps, S., Forbes, M. R., and C. Soos., 2010, Handling stress lowers survival and delays reproduction of female common eiders during an avian cholera outbreak., *Journal of Wildlife Management*, , Accepted

Cameron, C., Berteaux, D. and Dufresne, F., 2010, Spatial variation in food availability predicts extra-pair paternities in the arctic fox, *Behavioural ecology*, , Submitted

Careau, V., Giroux, J.-F., Gauthier, G. and Berteaux, D., 2008, Surviving on cached foods – the energetics of egg-caching by arctic foxes, *Canadian Journal of Zoology*, v. 86, 1217-1223, Published

Careau, V., Lecomte, N., Bêty, J., Giroux, J.-F., Gauthier, G. and Berteaux, D., 2008, Food hoarding of pulsed resources: temporal variations in egg-caching behaviour of arctic fox, *Ecoscience*, v. 15, no. 2, 268-276, Published

Descamps, S., Bêty, J., Love, O.P. and Gilchrist H.G., 2010, Individual optimization of reproduction in a long-lived migratory bird: a test of the condition-dependent model of laying date and clutch size., *Functional Ecology*, , Accepted

Descamps, S., Forbes, M.R., Gilchrist, H.G., Love, O. and Bêty, J., 2010, Avian cholera, post-hatching survival and selection on hatch characteristics in a long-lived bird., *Journal of Avian Biology*, , Accepted

Descamps, S., Gilchrist, H. G., Bety, J. and Buttler, I., 2010, Costs of reproduction in a long-lived bird: large clutch size reduces survival in the presence of a highly virulent disease, *Biology Letters*, v.5, 278-281, Published

Descamps, S., Gilchrist, H.G., Bêty, J. and Butler, I., 2009, Costs of reproduction in a long-lived bird: large clutch size is associated to low survival in the presence of a highly virulent disease, *Biology Letters*, 5: 278-281, Published













Chalifour, É., Bêty, J., Bélisle, M., Lefebvre, J. and Giroux, J.-F., 2010, Molt migration of Greater Snow Geese, ArcticNet annual scientific meeting, Ottawa, 1, Published

Descamps, S., Gilchrist, G., Bety, J., and Buttler, I., 2008, Costs of reproduction in common eiders in the presence of avian cholera: being a poor breeder can save your life, 2008 Arctic Change Conference, Quebec City, , Published

Descamps, S., Gilchrist, H.G., Bêty, J., Buttler, I. and Forbes, M.R., 2008, Being a poor breeder can save your life. Cost of reproduction in northern common eiders in the presence of avian cholera, 2008 Arctic Change Conference, Quebec City, 1, Published

Doiron, M., Gauthier, G. and Lévesque, E., 2008, Plant-herbivore interactions and climate change: The Case of the Greater Snow Goose, 2008 Arctic Change Conference, Quebec City, 1, Published

Doiron, M., Gauthier, G. and Lévesque, E., 2009, Impacts of climate change on a High Arctic herbivore: The case of the Greater Snow Goose, IPY Canada Early Results Workshop, Ottawa, 1, Published

Doiron, M., Gauthier, G. and Lévesque, E., 2010, Impacts of climate change on a High Arctic herbivore: The case of the Greater Snow Goose, IPY Canada Early Results Workshop, Ottawa, ON, 1, Published

Fast, P.L.F., 2010, Studies of migratory connectivity and nest choice in Arctic waterfowl, Max Planck Institute for Ornithology, Seewiesen, Germany, 1, Published

Fast, P.L.F., Redjadj, C., Gauthier, G. and Bêty, J., 2009, Fuelling up before the flight: Assessing the importance of stopover sites in an arctic migrant using stable isotopes, ArcticNet Annual Scientific Meeting, Victoria, 1, Published

Franke, A., Descamps S., Therrien, J.F., Bêty, J., 2011, Adult survival in Arctic-nesting Peregrine Falcons: higher vulnerability to weather during fall migration., Oral presentation Gyrfalcons and Ptarmigan in a Changing World, Boise, ID, , Accepted

Franke, A., L'Hérault, V., Aliyak, A., Alogut, P. and Prostor, M. , 2008, Use of Space by Arctic Nesting Male Peregrines Raising Young, 2008 Arctic Change Conference, Quebec City, , Published

Franke, A., L'Hérault, V., Prostor, M. and Bêty, J., 2008, Stratégies d'approvisionnement et utilisation de l'espace chez un prédateur aviaire: le faucon pèlerin (*Falco peregrinus*), 33rd SQEBC annual congress, Rimouski, 1, Published

Franke, A., Robinson, B.G., Prostor, M., L'Hérault, V., Anctil, A., Alogut, P., 2011, Home range size and distribution in Arctic peregrine falcons: is productivity density dependent?, Oral presentation Gyrfalcons and Ptarmigan in a Changing World, Boise, ID, , Accepted

Franke, A., Settingington, M. A., Court, G.S., Birkholz, D., 2011, Long-term Trends of Persistent Organochlorine Pollutants, Occupancy and Reproductive Success in Peregrine Falcons (*Falco peregrinus tundrius*) Breeding near Rankin Inlet, Nunavut, Canada., Oral presentation Gyrfalcons and Ptarmigan in a Changing World, Boise, ID, , Accepted

Gagnon, C and Berteaux, D., 2008, Aspects of Knowledge Aquisition and Transfer to Assess the Vulnerability and Resilience of Two Arctic Communities to Environmental Changes, 2008 Arctic Change Conference, Quebec City, , Published

Gagnon, C.-A. and Berteaux, D., 2008, Resilience, vulnerability and wildlife resources in two Arctic communities of Canada, Sixth International Congress of Arctic Social Sciences (ICASS VI), Nuuk, Greenland, , Published

Gallant, D., Berteaux, D. and Reid, D.G. , 2010, L'expansion du renard roux dans l'Arctique Canadien : Effets des changements climatiques, sélection de l'habitat et interactions avec le renard arctique, Symposium Nordique, Québec, 1, Published

Gallant, D., Slough, B., Berteaux, D. and Reid, D., 2008, Arctic fox versus red fox in the Canadian Arctic: is there a clear winner after 37 years of monitoring in the warming northern Yukon?, 2008 Arctic Change Conference, Quebec City, , Published

Gallant, D., Slough, B.G., Berteaux, D. and Reid, D.G. , 2010, Arctic Fox Versus Red Fox in The Canadian Arctic: Is There a Clear Winner After 39 Years of Monitoring in the Warming Northern Yukon?, IPY Canada Early Results Workshop, Ottawa, 1, Published



- Krebs, C.J., Kenney, A.J. and Gauthier, G., 2009, Why not ECOPATH for terrestrial ecosystems?, ECOPATH conference, Vancouver, 1, Published
- L'Hérault, V., Franke, A., Alogut, P., Bêty, J., 2010, Effect of nesting habitat on niche width and reproductive success of Peregrine Falcons nesting near Rankin Inlet, Nunavut., Poster presentation ArcticNet Scientific Meeting. Ottawa, ON., 132, Published
- Lai, S., Berteaux, D. and Bêty, J., 2009, From land to sea ice with the arctic fox, following the movements of a terrestrial mammal in the Canadian High Arctic, ArcticNet Annual Scientific Meeting, Victoria, 1, Published
- Lai, S., Berteaux, D. and Bêty, J., 2010, De la terre à la banquise avec le renard arctique, suivi des mouvements d'un mammifère terrestre dans le Haut Arctique Canadien, Symposium Nordique, Québec, 1, Published
- Lamarre, J.-F., Bolduc, E., Bêty, J. and Gauthier, G., 2010, Reproductive and migratory ecology of insectivores (Shorebirds and Songbirds) and the effect of climate change on insectivore-insect interactions on Bylot Island, Sirmilik National Park, Summary Report, 5p, Published
- Legagneux P., Gauthier, G., Berteaux, D., Bêty, J., Cadieux, M.-C., Szor, G., Bilodeau, F., Bolduc, E., McKinnon, L., Tarroux, A., Therrien, J.-F., Valiquette, M.-A., Morissette, L. and Krebs, J.C., 2009, Modélisation des relations trophiques d'un écosystème terrestre arctique, 34e colloque annuel de la Société québécoise pour l'étude biologique du comportement, Trois-Rivières, 1, Published
- Legagneux, P., Gauthier, G. and Krebs, C.J., 2009, Spatial and temporal trophic dynamics of terrestrial arctic ecosystems, ECOPATH conference, Vancouver, 1, Published
- Legagneux, P., Gauthier, G., Berteaux, D., Bêty, J., Cadieux, M.-C., Szor, G., Bilodeau, F., Bolduc, E., McKinnon, L., Tarroux, A., Therrien, J.-F., Valiquette, M.-A., Morissette, L. and Krebs, C.J., 2010, Modélisation des relations trophiques d'un écosystème terrestre arctique, Symposium Nordique, Québec, 1, Published
- Love, O.P., Bêty, J., Gilchrist, H.G., Wynne-Edwards K. and Williams, T.D., 2008, Yolk hormones as maternal effects: variability and assumed versus realized impacts on fitness., International Avian Endocrinology Symposium. Belgium, , Published
- Love, O.P., Bêty, J., McMurtry, J.P. and Gilchrist, H.G., 2008, Linking physiology, climate and reproductive strategies in common eiders., 3rd North American Sea Duck Conference, Quebec City, , Published
- Love, O.P., Bêty, J., Williams, T.D. and Gilchrist, H.G., 2008, Hormonal Mechanisms Linking Climate Change and Reproductive Decisions in an Arctic Capital-Breeding Bird., International Avian Endocrinology Symposium. Belgium, , Published
- L'Hérault, V., Alogut, P., Bêty, J. & Franke, A., 2008, Spatial variability in resource use by arctic-nesting peregrine falcons (*Falco peregrinus tundrius*), 2008 Arctic Change Conference, Quebec City, 1, Published
- L'Hérault, V., Franke, A., Alogut, P. and Bêty, J., 2009, Foraging strategies of arctic-nesting peregrine falcons in a changing world, ArcticNet Annual Scientific Meeting, Victoria, 1, Published
- Mahaffy, N., Boer, C., Franke, A., McFarlane, K., 2010, Making a comeback: a study of population genetic health of the peregrine falcon in bottlenecked and wild populations., Poster presentation International Society for Conservation Biology Conference, Edmonton, AB., 147, Published
- McKinnon, L., Smith, P.A., Doyle, F., Martin, J.L., Bêty, J., Abraham, K., Gilchrist, H.G., Nol, E. and Morrison, R.I.G., 2008, Latitudinal trends in predation pressure: investigating the vulnerability of shorebirds to climate induced shifts in predator composition., 33e colloque annuel de la Société québécoise pour l'étude biologique du comportement, Rimouski, , Published
- McKinnon, L., Gilchrist, H.G. and Fifield, D., 2008, A pelagic survey of arctic and subarctic Canadian waters during fall, 2008 Arctic Change Conference, Quebec City, , Published



- Tarroux, A., Berteaux, D. and Bêty, J., 2010, Surviving the arctic winter on Bylot Island: insights into the foraging tactics of a terrestrial predator, ArcticNet annual meeting, Ottawa, 1, Published
- Tarroux, A., Bêty, J. and Berteaux, D., 2010, The marine side of a terrestrial mammal: trophic niche and diet specialization of Arctic Foxes, IPY Canada Early Results Workshop, Ottawa, 1, Published
- Tarroux, A., Lecomte, N., Ehrlich D., Giroux, M.-A., Killengreen S.T., Sokolov, A., Fuglei, E., Bêty, J., Berteaux, D., Yoccoz, N.G. and Ims, R.A., 2010, Tarroux, A., Lecomte, N., Ehrlich D., Giroux, M.-A., Killengreen S.T., Sokolov, A., Fuglei, E., Metamorphosis of the Arctic terrestrial food webs : Between collapse of native species and explosion of exotic predators?, ArcticNet annual meeting, Ottawa, 1, Published
- Therrien, J.-F., Gauthier, G. and Bêty, J., 2010, Subsidies allochtones en milieu extrême: un support pour les populations de prédateurs terrestres de l'arctique, 35e colloque annuel de la Société québécoise pour l'étude biologique du comportement, Montréal, QC, 1, Published
- Therrien, J.-F., Gauthier, G. and Bêty, J., 2008, Reproductive success and long-distance movements of Snowy Owls: is this top arctic predator vulnerable to climate change?, 2008 Arctic Change Conference, Quebec City, 1, Published
- Therrien, J.-F., Gauthier, G. and Bêty, J., 2008, Reproduction et mouvements interannuels chez le harfang des neiges: un nomade en cavale, 33e colloque annuel de la Société québécoise pour l'étude biologique du comportement, Rimouski, 1, Published
- Therrien, J.-F., Gauthier, G. and Bêty, J., 2009, The lemming buffet: is there anything left after owls and jaegers have eaten?, Sixth ArcticNet Scientific Meeting, Victoria, 1, Published
- Therrien, J.-F., Gauthier, G. and Bêty, J., 2009, Reproductive success and long-distance movements of Snowy Owls: is this top arctic predator vulnerable to climate change?, 9th ACUNS International Student Conference on Northern Studies and Polar Regions, Whitehorse, 1, Published
- Therrien, J.-F., Gauthier, G., Bêty, J., Reid, D. and Doyle, F., 2009, Long-distance movements of two avian predators, the Snowy Owl and Long-tailed Jaeger, tracked via satellite, IPY Canada Early Results Workshop, Ottawa, 1, Published
- Therrien, J.-F., Gauthier, G., Bêty, J., Reid, D. and Doyle, F., 2010, Long-distance movements of two avian predators, the Snowy Owl and Long-tailed Jaeger, tracked via satellite, IPY Canada Early Results Workshop, Ottawa, ON,, 1, Published
- Therrien, J.F., Gauthier, G. and Bêty, J. , 2009, The lemming buffet : is there anything left after owl and jaegers have eaten?, ArcticNet Annual Scientific Meeting, Victoria, 1, Published
- Valiquette, M.-A. and Gauthier, G, 2008, Numerical and functional responses of a generalist avian predator, the glaucous gull, to variations in lemming abundance in the Arctic, 2008 Arctic Change Conference, Quebec City, 320, Published

### **Specialized Publications**

- Berteaux, D., Tarroux, A. and Giroux, J-F., 2008, Population study of arctic and red fox on Bylot Island (Nunavut): A summary report., Annual report for Joint Park Management Committee of Sirmilik National Park of Canada, 4pp, Published
- Cadieux, M.-C, Gauthier, G., Gagnon, C.A., Lévesque, E., Bêty, J. and Berteaux, D., 2008, Monitoring the environmental and ecological impacts of climate change on Bylot Island, Sirmilik National Park – 2004-2008 final report, Unpublished report submitted to the Northern Ecosystem Initiative, Environment Canada, Yellowknife, 1-113, Published
- Franke, A. and Hotson, C., 2011, Multi-scale investigation of the population ecology of raptors in Nunavut, Report to Government of Nunavut, Department of Environment, , Accepted
- Gauthier, G., Cadieux, M.-C., Lefebvre, J., Bêty, J. and Berteaux, D., 2010, Population study of greater snow geese and its nesting habitat on Bylot Island, Nunavut in 2010: a progress report, Report submitted to the Arctic Goose Joint Venture, Environment Canada, QC and Parks Canada, Iqaluit, NU, 33 p, Published

