

**JOURNAL PUBLICATIONS
FROM OUR WORK ON BYLOT ISLAND
(1991-2023)**

2023

- Beardsell, A., D. Berteaux, F. Dulude-De-Broin, G. Gauthier, J. Clermont, D. Gravel & J. Bêty. 2023. Predator-mediated interactions through changes in predator home range size can lead to local prey exclusion. **Proceedings of the Royal Society B Biological Sciences** 290:20231154. doi: 10.1098/rspb.2023.1154
- Bolduc, D., D. Fauteux, C.A. Gagnon, G. Gauthier, J. Bêty & P. Legagneux. 2023. Testimonials to reconstruct past abundances of wildlife populations. **Basic and Applied Ecology** 68:23-34. doi: 10.1016/j.baae.2022.11.005
- Deschamps, L., V. Maire, L. Chen, D. Fortier, G. Gauthier, A. Morneault, E. Hardy-Lachance, I. Dalcher-Gosselin, F. Tanguay, C. Gignac, J.M. McKenzie, L. Rochefort & E. Lévesque. 2023. Increased nutrient availability speeds up permafrost development, while goose grazing slows it down in a Canadian High Arctic wetland. **Journal of Ecology** 111:449-463. doi: 10.1111/1365-2745.14037
- Dulude-de Broin, F., J. Clermont, A. Beardsell, L.P. Ouellet, P. Legagneux, J. Bêty & D. Berteaux. 2023. Predator home range size mediates indirect interactions between prey species in an arctic vertebrate community. **Journal of Animal Ecology** 00:1-13. doi: 10.1111/1365-2656.14017
- Grandmont, T., P. Fast, I. Grentzmann, G. Gauthier, J. Bety & P. Legagneux. 2023. Should I breed or should I go? Manipulating individual state during migration influences breeding decisions in a long-lived bird species. **Functional Ecology** 37:602-613. doi: 10.1111/1365-2435.14256
- LeTourneau, F., F. Dulude-de Broin, T. Grandmont, M.C. Martin, J. Bêty, G. Gauthier & P. Legagneux. 2023. Additional data confirms the impact of the COVID19 lockdown on the behavior and fattening of migratory snow geese. **Biological Conservation** 286:110240. doi: 10.1016/j.biocon.2023.110240
- Moisan, L., D. Gravel, P. Legagneux, G. Gauthier, D.J. Léandri-Breton, M. Somveille, J.F. Therrien, J.F. Lamarre & J. Bêty. 2023. Scaling migrations to communities: an empirical case of migration network in the Arctic. **Frontiers in Ecology and Evolution** 10:1077260. doi: 10.3389/fevo.2022.1077260
- Poirier, M., G. Gauthier, F. Domine & D. Fauteux. 2023. Lemming winter habitat: the quest for warm and soft snow. **Oecologia** 202: 211-225. doi: 10.1007/s00442-023-05385-y
- Seyer, Y., G. Gauthier & J.F. Therrien. 2023. High site fidelity and low divorce rate in an Arctic monogamous seabird. **Ibis** 165:685-690. doi: 10.1111/ibi.13132
- Seyer, Y., G. Gauthier, J. Bêty, J.F. Therrien, P. Legagneux & N. Lecomte. 2023. Local food availability and carry-over effects from the nonbreeding period affect the reproduction of a tundra-nesting predator. **Ornithology** 140:1-12. doi: 10.1093/ornithology/ukad032

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- Beardsell, A., D. Gravel, J. Clermont, D. Berteaux, G. Gauthier & J. Bêty. 2022. A mechanistic model of functional response provides new insights into indirect interactions among arctic tundra prey. **Ecology** 103:e3734. doi: 10.1002/ecy.3734

- Bolduc, D., D. Fauteux, E. Bharucha, J.M. Trudeau & P. Legagneux. 2022. Ultra-light photosensor collars to monitor Arctic lemming activity. **Animal Biotelemetry** 10:31. doi: 10.1186/s40317-022-00302-1
- Fauteux, D. & G. Gauthier. 2022. Density-dependent demography and movements in a cyclic brown lemming population. **Ecology and Evolution** 12:e9055. doi: 10.1002/ece3.9055
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- LeTourneux, F., G. Gauthier, R. Pradel, J. Lefebvre & P. Legagneux. 2022. Evidence for synergistic cumulative impacts of marking and hunting in a wildlife species. **Journal of Applied Ecology** 59:2705-2715. doi: 10.1111/1365-2664.14268
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- Clermont, J., A. Grenier-Potvin, É. Duchesne, C. Couchoux, F. Dulude-de Broin, A. Beardsell, J. Bêty & D. Berteaux. 2021. The predator activity landscape predicts the anti-predator behavior and distribution of prey in a tundra community. **Ecosphere** 12:e03858. doi: 10.1002/ecs2.38
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- Domine, F., G. Lackner, D. Sarrazin, M. Poirier & M. Belke-Brea. 2021. Meteorological, snow and soil data (2013–2019) from a herb tundra permafrost site at Bylot Island, Canadian high Arctic, for driving and testing snow and land surface models. **Earth System Science Data** 13:4331–4348. doi: 10.5194/essd-13-4331-2021
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- Ehrich, D., N.M. Schmidt, G. Gauthier, R. Alisauskas, A. Angerbjörn, K. Clark, F. Ecke et al. 2020. Documenting lemming population change in the Arctic: Can we detect trends? **Ambio** 49:786-800. doi: 10.1007/s13280-019-01198-7
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