

PUBLICATIONS DANS DES REVUES DE NOS TRAVAUX À L'ÎLE BYLOT (1991-2023)

2023

- Beardsell, A., D. Berteaux, F. Dulude-De-Broin, G. Gauthier, J. Clermont, D. Gravel & J. Béty. 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. Béty & P. Legagneux. 2023. Testimonials to reconstruct past abundances of wildlife populations. **Basic and Applied Ecology** 68:23-34. doi: 10.1016/j.baee.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. Béty & 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. Béty & 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. Béty, 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. Béty. 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. Béty, 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

2022

- Beardsell, A., D. Gravel, J. Clermont, D. Berteaux, G. Gauthier & J. Béty. 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
- Gignac, C., L. Rochefort, G. Gauthier, E. Lévesque, V. Maire, L. Deschamps, R. Pouliot & M. Marchand-Roy. 2022. N/P addition is more likely than N addition alone to promote a transition from moss-dominated to graminoid-dominated tundra in the High-Arctic. **Atmosphere** 13:676. doi: 10.3390/atmos13050676
- LeTourneau, 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
- McCabe, R., J.-F. Therrien, K. Wiebe, G. Gauthier, D. Brinker, S. Weidensaul, D. Reid, F. Doyle, K.O. Jacobsen, T. Aarvak, I.J. Øien, R. Solheim, G. Fitzgerald, N. Smith, K. Bates, M. Fuller, E. Miller & K. H. Elliott. 2022. Density-dependent winter survival of immatures in an irruptive raptor with pulsed breeding. **Oecologia** 198:295-306. doi: 10.1007/s00442-021-05057-9
- Seyer, Y., G. Gauthier & J.-F. Therrien. 2022. High site and mate fidelity in a monogamous Arctic seabird. **Ibis** 00:1-6. doi: 10.1111/ibi.13132

2021

- Bates, A.E., R.B. Primack & PAN-Environment Working Group (350 authors including G. Gauthier, P. Legagneux, J. Béty, F. Letourneux, F. Dulude de-Broin & T. Grandmont). 2021. Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. **Biological Conservation** 263:109175. doi: 10.1016/j.biocon.2021.109175
- Beardsell, A., D. Gravel, D. Berteaux, G. Gauthier, J. Clermont, V. Careau, N. Lecomte, C.-C. Juhasz, P. Royer-Boutin & J. Béty. 2021. Derivation of predator functional responses using a mechanistic approach in a natural system. **Frontiers in Ecology and Evolution** 9:630944. doi: 10.3389/fevo.2021.630944
- Clermont, J., A. Grenier-Potvin, É. Duchesne, C. Couchoix, F. Dulude-de Broin, A. Beardsell, J. Béty & 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
- Clermont, J., S. Woodward-Gagné & D. Berteaux. 2021. Digging into the behaviour of an active hunting predator: arctic fox prey caching events revealed by accelerometry. **Movement Ecology** 9:58. doi: 10.1186/s40462-021-00295-1
- 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
- Duchesne, É., J.-F. Lamarre, G. Gauthier, D. Berteaux, D. Gravel & J. Béty. 2021. Variable strength of predator-mediated effects on species occurrence in an arctic terrestrial vertebrate community. **Ecography** 44:1236-1248. doi: 10.1111/ecog.05760
- Frederick, C., C. Girard, G. Wong, M. Lemire, A. Langwieder, M.-C. Martin & P. Legagneux. 2021. Communicating with Northerners on the absence of SARS-CoV-2 in migratory snow geese. **Ecoscience** 28:217-223. doi: 10.1080/11956860.2021.1885803

- Grenier-Potvin, A., J. Clermont, G. Gauthier & D. Berteaux. 2021. Prey and habitat distribution are not enough to explain predator habitat selection: addressing intraspecific interactions, behavioural state and time. **Movement Ecology** 9:12. doi: 10.1186/s40462-021-00250-0
- Kalhor, D., M. Poirier, A. Pusenkova, X. Maldague, G. Gauthier & T. Galstian. 2021. A camera trap to reveal the obscure world of the arctic subnivean ecology. **IEEE Sensors Journal** 21:28025-28036. doi: 10.1109/JSEN.2021.3122203
- Lamarre, J.-F., G. Gauthier, R. Lanctot, S.T. Saalfeld, O.P. Love, E.T. Reed, O.W. Johnson, J. Liebezeit, R.L. McGuire, M. Russell, E. Nol, L. Kolosky, F. Sanders, L. McKinnon, P.A. Smith, S.A. Flemming, N. Lecomte, M.-A. Giroux, S. Bauer, T. Emmenegger & J. Béty. 2021. Timing of breeding site availability across the North-American Arctic partly determines spring migration schedule in a long-distance neotropical migrant. **Frontiers in Ecology and Evolution** 9:710007. doi: 10.3389/fevo.2021.710007
- Lapierre-Poulin, F., D. Fortier & D. Berteaux. 2021. Low vulnerability of Arctic fox dens to climate change-related geohazards on Bylot Island, Nunavut, Canada. **Arctic Science** 7:746–761. doi: 10.1139/as-2019-0007
- LeTourneau, F., T. Grandmont, F. Dulude-de Broin, M.C. Martin, J. Lefebvre, A. Kato, J. Béty, G. Gauthier & P. Legagneux. 2021. COVID19-induced reduction in human disturbance enhances fattening rate of an overabundant goose species. **Biological Conservation** 255:108968. doi: 10.1016/j.biocon.2021.108968
- McCabe, R.A., J.-F. Therrien, K. L. Wiebe, G. Gauthier, D. Brinker, S. Weidensaul & K. Elliott. 2021. Landscape cover type, not social dominance, is associated with the winter movement patterns of snowy owls in temperate areas. **Ornithology** 138:1-12. doi: 10.1093/ornithology/ukaa082
- Meyer, N., L. Bollache, M. Galipaud, J. Moreau, F.X. Dechaume-Moncharmont, E. Afonso, A. Angerbjörn, J. Béty et al. 2021. Behavioural responses of breeding arctic sandpipers to ground-surface temperature and primary productivity. **The Science of the Total Environment** 755:142485. doi: 10.1016/j.scitotenv.2020.142485
- Nishizawa, K., L. Deschamps, V. Maire, J. Béty, E. Lévesque, R. Kitagawa, S. Masumoto, I. Gosselin, A. Morneault, L. Rochefort, G. Gauthier, Y. Tanabe, M. Uchida & A.S. Mori. 2021. Long-term consequences of goose exclusion on nutrient cycles and plant communities in the High-Arctic. **Polar Science** 27:100631. doi: 10.1016/j.polar.2020.100631
- Poirier, M., D. Fauteux, G. Gauthier, F. Dominé & J.-F. Lamarre. 2021. Snow hardness impacts intranivean locomotion of arctic small mammals. **Ecosphere** 12 (11): e03835. doi: 10.1002/ecs2.3835
- Poulin, M.-P., J. Clermont & D. Berteaux. 2021. Extensive daily movement rates measured in territorial arctic foxes. **Ecology and Evolution** 11:2503-2514. doi: 10.1002/ece3.7165
- Robillard, A., G. Gauthier, J.F. Therrien & J. Béty. 2021. Linking winter habitat use, diet and reproduction in snowy owls using satellite tracking and stable isotope analyses. **Isotopes in Environmental & Health Studies** 57:166-182. doi: 10.1080/10256016.2020.1835888
- Royer, A., F. Domine, A. Roy, A. Langlois, N. Marchand & G. Davesne. 2021. New northern snowpack classification linked to vegetation cover on a latitudinal mega-transect across northeastern Canada. **Écoscience (in press)**. doi: 10.1080/11956860.2021.1898775
- Seyer, Y., G. Gauthier, J.-F. Therrien & N. Lecomte. 2021. Seasonal variations in migration strategy of a long-distance Arctic-breeding seabird. **Marine Ecology Progress Series** 677:1-16. doi: 10.3354/meps13905

Therrien, J.-F., G. Gauthier, T. McDonald, N. Smith, S. Weidensaul, D. Brinker, R. McCabe, A. Robillard, J. Béty & N. Lecomte. 2021. The irruptive nature of Snowy Owls: an overview of some of the recent empirical evidence. **AIRO** 29:527-534.

2020

- Berner, L.T., R. Massey, P. Jantz, B.C. Forbes, M. Macias-Fauria, I. Myers-Smith, T. Kumpula, G. Gauthier et al. 2020. Summer warming explains widespread but not uniform greening in the Arctic tundra biome. **Nature Communications** 11:4621. doi: 10.1038/s41467-020-18479-5
- Chevallier, C., G. Gauthier, S. Lai & D. Berteaux. 2020. Pulsed food resources affect reproduction but not adult apparent survival in arctic foxes of the High Arctic. **Oecologia** 193:557-569. doi: 10.1007/s00442-020-04696-8
- Curk, T., I. Pokrovsky, N. Lecomte, T. Aarvak, K. Burnham, A. Dietz, A. Franke, G. Gauthier et al. 2020. Arctic avian predators synchronise their spring migration with the northern progression of snowmelt. **Scientific Reports** 10:7220. doi: 10.1038/s41598-020-63312-0
- Davidson, S.C., G. Bohrer, E. Gurarie, S. LaPoint, P.J. Mahoney, N.T. Boelman, J.U.H. Eitel, L.R. Prugh, L.A. Vierling, J. Jennewein, E. Grier, O. Couriot, A.P. Kelly, A.J.H. Meddens, R.Y. Oliver, R. Kays, M. Wikelski, T. Aarvak, J.T. Ackerman, J.A. Alves, E. Bayne, B. Bedrosian, J.L. Belant, A.M. Berdahl, A.M. Berlin, D. Berteaux, J. Béty, G. Gauthier et al. 2020. Ecological insights from three decades of animal movement tracking across a changing Arctic. **Science** 370:712-715. doi: 10.1126/science.abb7080
- 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
- Gallant, D., N. Lecomte & D. Berteaux. 2020. Disentangling the relative influences of global drivers of change in biodiversity: A study of the twentieth-century red fox expansion into the Canadian Arctic. **Journal of Animal Ecology** 89: 565–576. doi: 10.1111/1365-2656.13090
- Hutchison, C., F. Guichard, P. Legagneux, G. Gauthier, J. Béty, D. Berteaux, D. Fauteux & D. Gravel. 2020. Seasonal food webs with migrations: multi-season models reveal indirect species interactions in the Canadian Arctic tundra. **Philosophical Transactions of the Royal Society A – Physical Sciences A** 20190354. doi: 10.1098/rsta.2019.0354
- Kankaanpää T., E. Vesterinen, B. Hardwick, N.M. Schmidt, T. Andersson, P.E. Aspholm, I. Barrio, N. Beckers, J. Béty et al. 2020. Parasitoids indicate major climate-induced shifts in Arctic communities. **Global Change Biology** 26:6276-6295. doi: 10.1111/gcb.15297
- Léandri-Breton, D.-J. & J. Béty. 2020. Vulnerability to predation may affect species distribution: plovers with broader arctic breeding range nest in safer habitat. **Scientific Reports** 10: 5032. doi: 10.1038/s41598-020-61956-6
- Meyer N., L. Bollache, F.X. Dechaume-Moncharmont, J. Moreau, E. Afonso, A. Angerbjörn, J. Béty et al. 2020. Nest attentiveness drives nest predation in arctic sandpipers. **Oikos** 129:1481-1492. doi: 10.1111/oik.07311
- Reséndiz-Infante, C. & G. Gauthier. 2020. Temporal changes in reproductive success and optimal breeding decisions in a long-distance migratory bird. **Scientific Reports** 62:284-296. doi: 1438-390X.12046
- Reséndiz-Infante, C., G. Gauthier & G. Souchay. 2020. Consequences of a changing environment on the breeding phenology and reproductive success components in a long-distance migratory bird. **Population Ecology** 62:284–296. doi: 10.1002/1438-390x.12046

- Schmidt, E., D. Fauteux, J.-F. Therrien, G. Gauthier & Y. Seyer. 2020. Improving diet assessment of Arctic terrestrial predators with the size of rodent mandibles. **Journal of Zoology** 311:23-32. doi: 10.1111/jzo.12756
- Seyer, Y., G. Gauthier, D. Fauteux & J.F. Therrien. 2020. Resource partitioning among avian predators of the Arctic tundra. **Journal of Animal Ecology** 89:2934-2945. doi: 10.1111/1365-2656.13346
- Weiser, E.L., R.B. Lanctot, S.C. Brown, H.R. Gates, J. Béty et al. 2020. Annual adult survival drives trends in Arctic-breeding shorebirds but knowledge gaps in other vital rates remain. **Condor**. 122:1-14. doi: 10.1093/condor/duaa026

2019

- Domine, F., G. Picard, S. Morin, M. Barrere, J.-B. Madore & A. Langlois. 2019. Major issues in simulating some Arctic snowpack properties using current detailed snow physics models: consequences for the thermal regime and water budget of permafrost. **Journal of Advances in Modeling Earth Systems** 11:34-44. doi: 10.1029/2018MS001445
- Juhasz, C.-C., B. Shipley, G. Gauthier, D. Berteaux & N. Lecomte. 2019. Direct and indirect effects of regional and local climatic factors on trophic interactions in the Arctic tundra. **Journal of Animal Ecology** 89:704-715. doi: 10.1111/1365-2656.13104
- Kalhor, D., A. Pusenkova, M. Poirier, G. Gauthier, T. Galstian & X. Maldague. 2019. Using near infrared for studying lemming subnival behavior in the High Arctic. **Proceedings** 27:11. doi: 10.3390/proceedings2019027011
- Larsson, P., J. von Seth, I.J. Hagen, A. Götherström, S. Androsov, M. Germonpré, N. Bergfeldt, S. Fedorov, N.E. Eide, N. Sokolova, D. Berteaux et al. 2019. Consequences of past climate change and recent human persecution on mitogenomic diversity in the arctic fox. **Philosophical Transaction of the Royal Society – Biological Sciences** 374: 20190212. doi: 10.1098/rstb.2019.0212
- Léandri-Breton, D.-J., J.-F. Lamarre & J. Béty. 2019. Seasonal variation in migration strategies used to cross ecological barriers in a Nearctic migrant wintering in Africa. **Journal of Avian Biology** 50: e02101. doi: 10.1111/jav.02101
- Poirier, M., G. Gauthier & F. Domine. 2019. What guides lemming movements through the snowpack? **Journal of Mammalogy** 100:1416–1426. doi: 10.1093/jmammal/gyz129
- Rheubottom S.I., I.C. Barrio, M.V. Kozlov, S. Sokovnina, J.M. Alatalo, T. Andersson, A.L. Asmus, C. Baubin, F.Q. Brearley, D.D. Egelkraut, D. Ehrich, G. Gauthier et al. 2019. Hiding in the background: community-level patterns in invertebrate herbivory across the tundra biome. **Polar Biology** 42:1881-1897. doi: 10.1007/s00300-019-02568-3
- Seyer, Y., G. Gauthier, L. Bernatchez & J.-F. Therrien. 2019. Sexing a monomorphic plumage seabird using morphometrics and assortative mating. **Waterbirds** 42:380-392. doi: 10.1675/063.042.0403

2018

- Domine, F., G. Gauthier, V. Vionnet, D. Fauteux, M. Dumont & M. Barrère. 2018. Snow physical properties may be a significant determinant of lemming population dynamics in the high Arctic. **Arctic Science** 4:813-826. doi: 10.1139/as-2018-0008
- Domine, F., M. Belke-Brea, D. Sarrazin, L. Arnaud, M. Barrère & M. Poirier. 2018. Soil moisture, wind speed and depth hoar formation in the Arctic snowpack. **Journal of Glaciology** 64:990-1002. doi: 10.1017/jog.2018.89

- Fauteux, D., G. Gauthier, D. Berteaux, R. Palme & R. Boonstra. 2018. High Arctic lemmings remain reproductively active under predator-induced elevated stress. **Oecologia** 187:657-666. doi: 10.1007/s00442-018-4140-4
- Fauteux, D., G. Gauthier, G. Slevan-Tremblay & D. Berteaux. 2018. Life in the fast lane: learning from the rare multi-year recaptures of brown lemmings in the High Arctic. **Arctic Science** 4:146-151. doi: 10.1139/as-2017-0017
- Fauteux, D., G. Gauthier, M. Mazerolle, N. Coallier, J. Béty & D. Berteaux. 2018. Evaluation of invasive and non-invasive methods to monitor rodent abundance in the Arctic. **Ecosphere** 9(2):e02124. doi: 10.1002/ecs2.2124
- Juhasz, C.C., A. Lycke, V. Careau, G. Gauthier, J.-F. Giroux & N. Lecomte. 2018 Picking the right cache: Caching-site selection for egg predators in the Arctic. **Polar Biology** 41:2233-2238. doi: 10.1007/s00300-018-2358-6
- Léandri-Breton, D.-J., M. Jaffré & J. Béty. 2018. A rare dark morph in the Canadian Arctic raises questions about molting and polymorphism in Long-tailed Jaeger. **Wilson Journal of Ornithology** 130: 337-340. doi: 10.1676/1559-4491-130.1.337
- Robillard, A., G. Gauthier, J.F. Therrien & J. Béty. 2018. Wintering space use and site fidelity in a nomadic species, the snowy owl. **Journal of Avian Biology** 49(5):e01707. doi: 10.1111/jav.01707
- Weiser E.L., R.B. Lanctot, S.C. Brown, H.R. Gates, R.L. Bentzen, J. Béty et al. 2018. Environmental and ecological conditions at Arctic breeding sites have limited effects on true survival rates of adult shorebirds. **Auk** 135:29-43. doi: 10.1642/AUK-17-107.1
- Weiser E.L., S.C. Brown, R.B. Lanctot, H.R. Gates, K. Abraham, R.L. Bentzen, J. Béty et al. 2018. Effects of environmental conditions on reproductive effort and nest success of Arctic-breeding shorebirds. **Ibis** 160:608-623. doi: 10.1111/ibi.12571
- Weiser E.L., S.C. Brown, R.B. Lanctot, H.R. Gates, K. Abraham, R.L. Bentzen, J. Béty et al. 2018. Life-history tradeoffs revealed by seasonal declines in reproductive traits of Arctic-breeding shorebirds. **Journal Avian Biology** 49:e01531. doi: 10.1111/jav.01531

2017

- Barrere, M., F. Domine, B. Decharme, S. Morin, V. Vionnet & M. Lafaysse. 2017. Evaluating the performance of coupled snow-soil models in SURFEXv8 to simulate the permafrost thermal regime at a high Arctic site. **Geoscientific Model Development** 10:3461-3479. doi: 10.5194/gmd-10-3461-2017
- Beardsell, A., G. Gauthier, D. Fortier, J.-F. Therrien & J. Béty. 2017. Vulnerability to geomorphological hazards of an arctic cliff-nesting raptor, the rough-legged hawk. **Arctic Science** 3:203-219. doi: 10.1139/as-2016-0025
- Berteaux, D., A.-M. Thierry, R. Alisauskas, A. Angerbjörn, E. Buchel, L. Doronina, D. Ehrich, N.E. Eide, R. Erlandsson, Ø. Flagstad et al. 2017. Harmonizing circumpolar monitoring of Arctic fox: benefits, opportunities, challenges, and recommendations. **Polar Research** 36 (sup1):2. doi: 10.1080/17518369.2017.1319602
- Berteaux, D., G. Gauthier, F. Dominé, R.A. Ims, S.F. Lamoureux, E. Lévesque & N. Yoccoz. 2017. Effects of changing permafrost and snow conditions on tundra wildlife: critical places and times. **Arctic Science**, 3:65-90. doi: 10.1139/as-2016-0023
- Berteaux D., N. Casajus, A. Angerbjörn & E. Fuglei. 2017. Foreword to Supplement 1: research on a polar species - the Arctic fox. **Polar Research** 36 (sup1):1. doi: 10.1080/17518369.2017.1347411

- Chevallier, C., G. Gauthier & D. Berteaux. 2017. Age estimation of live arctic foxes *Vulpes lagopus* based on teeth condition. **Wildlife Biology**, wlb.00304. doi: 10.2981/wlb.00304
- Elmhagen, B., D. Berteaux, R.M. Burgess, D. Ehrich, D. Gallant, H. Henttonen, R.A. Ims et al. 2017. Homage to Hersteinsson and Macdonald: climate warming and resource subsidies cause red fox range expansion and Arctic fox decline. **Polar Research** 36 (sup1): 3. doi: 10.1080/17518369.2017.1319109
- Fauteux, D., G. Gauthier, D. Berteaux, C. Bosson, R. Palme & R. Boonstra. 2017. Assessing stress in Arctic lemmings: fecal metabolite levels reflect plasma free corticosterone levels. **Physiological and Biochemical Zoology** 90:370-382. doi: 10.1086/691337
- Fauteux, D., G. Slevan-Tremblay, G. Gauthier & D. Berteaux. 2017. Feeding preference of brown lemmings for plant parts of Arctic willow. **Polar Biology** 40:2329-2334. doi: 10.1007/s00300-017-2147-7
- Lai S., A. Quiles, J. Lambourdière, D. Berteaux & A. Lalis. 2017. Fine-scale population genetic structure of arctic foxes (*Vulpes lagopus*) in the High Arctic. **BMC Research Notes** 10: 663-671. doi: 10.1186/s13104-017-3002-1
- Lai, S., J. Béty & D. Berteaux. 2017. Movement tactics of a mobile predator in a meta-ecosystem with fluctuating resources: the arctic fox in the High Arctic. **Oikos** 126:937-947. doi: 10.5061/dryad.b56d4
- Lamarre, J.-F., P. Legagneux, G. Gauthier, E.T. Reed & J. Béty. 2017. Predator-mediated negative effects of overabundant snow geese on arctic-nesting shorebirds. **Ecosphere** 8(5):e01788. doi: 10.1002/ecs2.1788
- Lefebvre, J., G. Gauthier, J.-F. Giroux, A. Reed, E.T. Reed & L. Bélanger. 2017. The greater snow goose, a case study of managing an overabundant population in North America. **Ambio** 46 (Suppl. 2):S262–S274. doi: 10.1007/s13280-016-0887-1
- Norén, K., L. Dalén, Ø. Flagstad, D. Berteaux, J. Wallén & Angerbjörn, A. 2017. Evolution, ecology and conservation – revisiting three decades of arctic fox population genetic research. **Polar Research** 36 (Sup1):4. doi: 10.1080/17518369.2017.1325135
- Rioux, M.-J., S. Lai, N. Casajus, J. Béty & D. Berteaux. 2017. Winter home range fidelity and extraterritorial movements of Arctic fox pairs in the Canadian High Arctic. **Polar Research** 36 (Sup1):11. doi: 10.1080/17518369.2017.1316930
- Robillard, A., G. Gauthier, J.F. Therrien, G. Fitzgerald, J.F. Provencher & J. Béty. 2017. Variability in stable isotopes of snowy owl feathers and contribution of marine resources to their winter diet. **Journal of Avian Biology** 48:759-769. doi: 10.1111/jav.01257

2016

- Beardsell A., G. Gauthier, J.-F. Therrien & J. Béty. 2016. Nest site characteristics, patterns of nest reuse and reproductive success in an arctic nesting raptor, the Rough-legged Hawk. **Auk** 133:718-732. doi: 10.1642/AUK-16-54.1
- Chevallier, C., S. Lai & D. Berteaux. 2016. Predation of arctic fox pups by common ravens. **Polar Biology** 39:1335-1341. doi: 10.1007/s00300-015-1843-4
- Domine, F., M. Barrere, & S. Morin. 2016. The growth of shrubs on high Arctic tundra at Bylot Island: impact on snow physical properties and permafrost thermal regime. **Biogeosciences** 13:6471-6486. doi: 10.5194/bg-13-6471-2016
- Domine, F., M. Barrere, M. & D. Sarrazin. 2016. Seasonal evolution of the effective thermal conductivity of the snow and the soil in high Arctic herb tundra at Bylot Island, Canada. **The Cryosphere** 10:2573-2588. doi: 10.5194/tc-10-2573-2016

- Fauteux, D., G. Gauthier & D. Berteaux. 2016. Top-down limitation of lemmings revealed by experimental reduction of predators. **Ecology** 97: 3231-3241. doi: 10.1002/ecy.1570
- Gauthier, G., G. Péron, J.-D. Lebreton, P. Grenier & L. van Oudenhove. 2016. Partitioning prediction uncertainty in climate-dependent population models. **Proceedings of the Royal Society B Biological Sciences** 283:20162353. doi: 10.1098/rspb.2016.2353
- Marmillot, V., G. Gauthier, M.-C. Cadieux & P. Legagneux. 2016. Plasticity in molt speed and timing in an arctic-nesting goose species. **Journal of Avian Biology** 47:650-658. doi: 10.1111/jav.00982
- Perreault, N., E. Lévesque, D. Fortier & L.J. Lamarque. 2016. Thermo-erosion gullies boost the transition from wet to mesic vegetation. **Biogeosciences Discussions** 13: 1237-1253. doi: 10.5194/bgd-12-12191-2015
- Robillard, A., J.-F. Therrien, G. Gauthier, J. Bêty & K.M. Clark. 2016. Pulsed resources at tundra breeding sites affect winter irruptions at temperate latitudes of a top predator, the snowy owl. **Oecologia** 181:423–433. doi: 10.1007/s00442-016-3588-3

2015

- Berteaux, D., D. Gallant, B.N. Sacks & M.J. Statham. 2015. Red foxes (*Vulpes vulpes*) at their expanding front in the Canadian Arctic have indigenous maternal ancestry. **Polar Biology** 38:913-917. doi: 10.1007/s00300-015-1647-6
- Christin, S., M-H. St-Laurent & D. Berteaux. 2015. Evaluation of Argos telemetry accuracy in the High-Arctic and implications for the estimation of home-range size. **Plos One** 10:e0141999. doi: 10.1371/journal.pone.0141999
- Doiron, M., G. Gauthier & E. Lévesque. 2015. Trophic mismatch and its effects on the growth of young in an Arctic herbivore. **Global Change Biology** 21:4364-4376. doi: 10.1111/gcb.13057
- Fauteux, D., G. Gauthier & D. Berteaux. 2015. Seasonal demography of a cyclic lemming population in the Canadian Arctic. **Journal of Animal Ecology** 84:1412-1422. doi: 10.1111/1365-2656.12385
- Gauthier, G., P. Legagneux, M.-A. Valiquette, M.-C. Cadieux & J.-F. Therrien. 2015. Diet and reproductive success of an Arctic generalist predator: Interplay between variations in prey abundance, nest site location and intraguild predation. **The Auk** 132:735-747. doi: 10.1642/AUK-14-273.1
- Soininen, E.M., G. Gauthier, F. Bilodeau, D. Berteaux, P. Taberlet, L. Gielly, G. Gussarova, E. Bellemain, K. Hassel, H.K. Stenøien, L. Epp, A. Schröder-Nielsen, C. Brochmann, N.G. Yoccoz. 2015. Highly overlapping winter diet in two sympatric lemming species revealed by DNA metabarcoding. **Plos One** 10:e0115335. doi: 10.1371/journal.pone.0115335
- Souchay, G., G. Gauthier, J. Lefebvre & R. Pradel. 2015. Absence of difference in survival between two distant breeding sites of greater snow geese. **Journal of Wildlife Management** 79:570- 578. doi: 10.1002/jwmg.879
- Therrien, J.-F., D. Pinaud, G. Gauthier, N. Lecomte, K.L. Bildstein & J. Bêty. 2015. Is pre-breeding prospecting behaviour affected by snow cover in the irruptive snowy owl? A test using state-space modelling and environmental data annotated via Movebank. **Movement Ecology** 3:1-8. doi: 10.1186/s40462-015-0028-7
- Therrien, J.-F., G. Gauthier, A. Robillard, N. Lecomte & J. Bêty. 2015. Écologie de la reproduction du harfang des neiges dans l'Arctique canadien. **Le Naturaliste Canadien** 139:17-23. doi: 10.7202/1027666ar

2014

- Béty, J., M. Graham-Sauvé, P. Legagneux, M.C. Cadieux & G. Gauthier. 2014. Fading indirect effects in a warming Arctic tundra. **Current Zoology** 60:189-202. doi: 10.1093/czoolo/60.2.189
- Bilodeau, F., G. Gauthier, D. Fauteux & D. Berteaux. 2014. Does lemming winter grazing impact vegetation in the Canadian Arctic? **Polar Biology** 37:845–857. doi: 10.1007/s00300-014-1486-x
- Doiron, M., G. Gauthier & E. Lévesque. 2014. Effects of experimental warming on forage quality and availability for an Arctic herbivore. **Journal of Ecology** 102:508-517. doi: 10.1111/1365-2745.12213
- Legagneux, P., G. Gauthier, N. Lecomte, N.M. Schmidt, D. Reid, M-C. Cadieux, D. Berteaux, J. Béty, C.J. Krebs, R.A. Ims, N.G. Yoccoz, R.I.G. Morrison, S.J. Leroux, M. Loreau, & D. Gravel. 2014. Arctic ecosystem structure and functioning shaped by climate and herbivore body size. **Nature Climate Change** 4:379-383. doi: 10.1038/NCLIMATE2168
- Lewis, L.R., E. Behling, H. Gousse, E. Qian, C.S. Elphick, J.-F. Lamarre, J. Béty, J. Liebezeit & B. Goffinet. 2014. First evidence of bryophyte diaspores in the plumage of transequatorial migrant birds. **PeerJ** 2:e424. doi: 10.7717/peerj.424
- McKinnon, L., D. Berteaux, and J. Béty. 2014. Predator-mediated interactions between lemmings and shorebirds: a test of the alternative prey hypothesis. **The Auk** 131:619-628. doi: 10.1642/AUK-13-154.1
- Soininen, E.M., D. Ehrich, N. Lecomte, N.G. Yoccoz, A. Tarroux, D. Berteaux, G. Gauthier, L. Gielly, C. Brochmann, G. Gussarova & R.A. Ims. 2014. Sources of variation in small rodent trophic niche: new insights from DNA metabarcoding and stable isotope analysis. **Isotopes in Environmental & Health Studies** 50:361-381. doi: 10.1080/10256016.2014.915824
- Souchay, G., G. Gauthier & R. Pradel. 2014. To breed or not: a novel approach to estimate breeding propensity and potential reproductive trade-offs in an Arctic-nesting species. **Ecology** 95:2745-2756. doi: 10.1890/13-1277.1
- Souchay, G., O. Gimenez, G. Gauthier & R. Pradel. 2014. Variations in band reporting rate and implications for kill rate in greater snow geese. **Avian Conservation Ecology** 9:1. doi: 10.5751/ACE-00628-090101
- Therrien, J.-F., G. Gauthier, D. Pinaud & J. Béty. 2014. Irruptive movements and breeding dispersal of snowy owls: a specialised predator exploiting a pulsed resource. **Journal of Avian Biology** 45:536-544. doi: 10.1111/jav.00426
- Therrien, J.-F., G. Gauthier, E. Korpimäki & J. Béty. 2014. Predation pressure imposed by avian predators suggests summer limitation of small mammal populations in the Canadian Arctic. **Ecology** 95:56-67. doi: 10.1890/13-0458.1
- van Oudenhoove, L., G. Gauthier & J.D. Lebreton. 2014. Year-round effects of climate on demographic parameters of an arctic nesting goose species. **Journal of Animal Ecology** 83:1322-1333. doi: 10.1111/1365-2656.12230

2013

- Bilodeau, F., A. Kenney, S. Gilbert, E. Hofer, G. Gauthier, D. Reid, D. Berteaux & C.J. Krebs. 2013. Evaluation of a technique to trap lemmings under the snow. **Arctic** 66:32-36.
- Bilodeau, F., D. Reid, G. Gauthier, C.J. Krebs, D. Berteaux & A. Kenney. 2013. Demographic response of tundra small mammals to a snow fencing experiment. **Oikos** 122:1167-1176. doi: 10.1111/j.1600-0706.2012.00220.x

- Bilodeau, F., G. Gauthier & D. Berteaux. 2013. Effect of snow cover on the vulnerability of lemmings to mammalian predators in the Canadian Arctic. **Journal of Mammalogy** 94:813-819. doi: 10.1644/12-MAMM-A-260.1
- Bilodeau, F., G. Gauthier & D. Berteaux. 2013. The effect of snow cover on lemming population cycles in the Canadian High Arctic. **Oecologia** 172:1007-1016. doi: 10.1007/s00442-012-2549-8
- Bolduc, E., N. Casajus, P. Legagneux, McKinnon L., H. G. Gilchrist, M. Leung, Morrison R.I.G., Reid D., Smith P.A., Buddle C.M. & J. Béty. 2013. Terrestrial arthropod abundance and phenology in the Canadian Arctic: modeling resource availability for arctic-nesting insectivorous birds. **Canadian Entomologist** 145:155-170. doi: 10.4039/tce.2013.4
- Gauthier, G., J. Béty, M.-C. Cadieux, P. Legagneux, M. Doiron, C. Chevallier, S. Lai, A. Tarroux & D. Berteaux. 2013. Long-term monitoring at multiple trophic levels suggests heterogeneity in responses to climate change in the Canadian Arctic tundra. **Philosophical Transaction of the Royal Society – Biological Sciences** 368:20120482. doi: 10.1098/rstb.2012.0482
- McKinnon, L., D. Berteaux, G. Gauthier & J. Béty. 2013. Predator-mediated interactions between preferred, alternative and incidental prey in the arctic tundra. **Oikos** 122:1042-1048. doi: 10.1111/j.1600-0706.2012.20708.x
- Souchay, G., G. Gauthier & R. Pradel. 2013. Temporal variation of juvenile survival in a long-lived species: the role of parasites and body condition. **Oecologia** 173:151-160. doi: 10.1007/s00442-013-2613-z

2012

- Desnoyers, M., G. Gauthier & J. Lefebvre. 2012. Stable associations within greater snow goose flocks: do they exist beyond family bonds? **Auk** 129:611-622. doi: 10.1525/auk.2012.12021
- Doiron, M., P. Legagneux, G. Gauthier & E. Lévesque. 2012. Broad-scale satellite Normalized Difference Vegetation Index data predict plant biomass and peak date of nitrogen concentration in Arctic tundra vegetation. **Applied Vegetation Science** 16:343-351. doi: 10.1111/j.1654-109X.2012.01219.x
- Ferguson, S., D. Berteaux, A. Gaston, J. Higdon, N. Lecomte, N. Lunn, M. Mallory, J. Reist, D. Russell, N. Yoccoz & X. Zhu. 2012. Time series data for Canadian arctic vertebrates: IPY contributions to science, management, and policy. **Climatic Change** 115:235-258. doi: 10.1007/s10584-012-0476-7
- Giroux, M.-A., D. Berteaux, N. Lecomte, G. Gauthier, G. Szor & J. Béty. 2012. Benefiting from a migratory prey: spatio-temporal patterns in subsidization of an arctic predator. **Journal of Animal Ecology** 81: 533-542. doi: 10.1111/j.1365-2656.2011.01944.x
- Juillet, C., R. Choquet, G. Gauthier & R. Pradel. 2012. Carry-over effects of spring hunt and climate on recruitment to the natal colony in a migratory species. **Journal of Applied Ecology** 49:1237-1246. doi: 10.1111/j.1365-2664.2012.02199.x
- Krebs, C.J., F. Bilodeau, D. Reid, G. Gauthier, A.J. Kenney, S. Gilbert, D. Duchesne & D.J. Wilson. 2012. Are lemming winter nest counts a good index of population density? **Journal of Mammalogy** 93:87-92. doi: 10.1644/11-MAMM-A-137.1
- Legagneux, P., G. Gauthier, D. Berteaux, J. Béty, M.-C. Cadieux, F. Bilodeau, E. Bolduc, L. McKinnon, A. Tarroux, J.-F. Therrien, L. Morissette & C.J. Krebs. 2012. Disentangling trophic relationships in a high arctic tundra ecosystem through food web modeling. **Ecology** 93: 1707-1716. doi: 10.1890/11-1973.1

- McKinnon, L., M. Picotin, E. Bolduc, C. Juillet & J. Bety. 2012. Timing of breeding, peak food availability, and effects of mismatch on chick growth in birds nesting in the High Arctic. **Canadian Journal of Zoology** 90:961-971. doi: 10.1139/Z2012-064
- McLennan, D.S., T. Bell, D. Berteaux, W. Chen, L. Copland, R. Fraser, D. Gallant, G. Gauthier, D. Hik, C.J. Krebs, I. Myers-Smith, I. Olthof, D. Reid, W. Sladen, C. Tarnocai, W. Vincent & Y. Zhang. 2012. Recent climate-related terrestrial biodiversity research in Canada's Arctic national parks: review, summary and management implications. **Biodiversity** 13:157-173. doi: 10.1080/14888386.2012.720818
- Reid, D., F. Bilodeau, C.J. Krebs, G. Gauthier, A.J. Kenney, B. S. Gilbert, M.C.Y. Leung, D. Duchesne & E. Hofer. 2012. Lemming winter habitat choice: a snow-fencing experiment. **Oecologia** 168:935-946. doi: 10.1007/s00442-011-2167-x
- Tarroux, A., J. Béty, G. Gauthier & D. Berteaux. 2012. The marine side of a terrestrial carnivore: intra-population variation in use of allochthonous resources by arctic foxes. **Plos One** 7:e42427. doi: 10.1371/journal.pone.0042427
- Therrien, J.-F., G. Gauthier & J. Béty. 2012. Survival and reproduction of adult snowy owls tracked by satellite. **Journal of Wildlife Management** 76: 1562-1567. doi: 10.1002/jwmg.414

2011

- Cameron, C., D. Berteaux & F. Dufresne. 2011. Spatial variation in food availability predicts extrapair paternity in the arctic fox. **Behavioral Ecology** 22: 1364-1373. doi: 10.1093/beheco/arr158
- Duchesne, D., G. Gauthier & D. Berteaux. 2011. Habitat selection, reproduction and predation of wintering lemmings in the Arctic. **Oecologia** 167:967-980. doi: 10.1007/s00442-011-2045-6
- Duchesne, D., G. Gautier & D. Berteaux. 2011. Evaluation of a method to determine the breeding activity of lemmings in their winter nests. **Journal of Mammalogy** 92:511-516. doi: 10.1644/10-MAMM-A-279.1
- Ehrich, D., A. Tarroux, J. Stien, N. Lecomte, S. Killengreen, D. Berteaux & N.G. Yoccoz. 2011. Stable isotope analysis: modelling lipid normalization for muscle and eggs from arctic mammals and birds. **Methods in Ecology and Evolution** 2:66-76. doi: 10.1111/j.2041-210X.2010.00047.x
- Gauthier, G., D. Berteaux, J. Béty, A. Tarroux, J.-F. Therrien, L. McKinnon., P. Legagneux & M.-C. Cadieux. 2011. The arctic tundra food web in a changing climate and the role of exchanges between ecosystems. **EcoScience** 18:223-235. doi: 10.2980/18-3-3453
- Legagneux, P., P.L.F. Fast, G. Gauthier & J. Béty. 2011. Manipulating individual state during migration provides evidence for carry-over effects modulated by environmental conditions. **Proceedings of The Royal Society B** 279:876-883. doi: 10.1098/rspb.2011.1351
- Therrien, J.-F., G. Fitzgerald, G. Gauthier & J. Béty. 2011. Diet-tissue discrimination factors of carbon and nitrogen stable isotopes in snowy owl blood. **Canadian Journal of Zoology** 89:343-347. doi: 10.1139/Z11-008
- Therrien, J.-F., G. Gauthier & J. Béty. 2011. An avian terrestrial predator of the Arctic relies on the marine ecosystem during winter. **Journal of Avian Biology** 42:363-369. doi: 10.1111/j.1600-048X.2011.05330.x

2010

- Béchet, A., J.-F. Giroux, G. Gauthier & M. Belisle. 2010. Why roost at the same place? Exploring short-term fidelity in staging snow geese. **Condor** 112:294-303. doi: 10.1525/cond.2010.090050
- Côté, G., R. Pienitz, G. Velle & X. Wang. 2010. Impact of geese on the limnology of lakes and ponds from Bylot Island (Nunavut, Canada). **International Review of Hydrobiology** 95:105-129. doi: 10.1002/iroh.200911151
- Gruyer, N., G. Gauthier & D. Berteaux. 2010. Demography of two lemming species on Bylot Island, Nunavut, Canada. **Polar Biology** 33:725-736. doi: 10.1007/s00300-009-0746-7
- Juillet, C., R. Choquet, G. Gauthier & R. Pradel. 2010. A capture-recapture model with double-marking, live and dead encounters, and heterogeneity of reporting due to auxiliary mark loss. **Journal of Agricultural, Biological and Environmental Statistics** 16:88-104. doi: 10.1007/s13253-010-0035-5
- Morrissette, M., J. Béty, G. Gauthier, A. Reed & J. Lefebvre. 2010. Climate, indirect trophic interactions, carry-over and density-dependent effects: which factors drive high arctic snow goose productivity? **Oikos** 119:1181-1191. doi: 10.1111/j.1600-0706.2009.18079.x
- Pouliot, R., M. Marchand-Roy, L. Rochefort & G. Gauthier. 2010. Estimating moss growth in arctic conditions: a comparison of three methods. **The Bryologist** 113:322-332. doi: 10.1639/0007-2745-113.2.322
- Tarroux, A., D. Berteaux & J. Béty. 2010. Northern nomads: ability for extensive movements in adult arctic foxes. **Polar Biology** 33:1021-1026. doi: 10.1007/s00300-010-0780-5
- Tarroux, A., D. Ehrich, N. Lecomte, T.D. Jardine, J. Béty & D. Berteaux. 2010. Sensitivity of stable isotope mixing models to variation in isotopic ratios: evaluating consequences of lipid extraction. **Methods in Ecology and Evolution** 1:231-241. doi: 10.1111/j.2041-210X.2010.00033.x
- Therrien, J.-F. 2010. Territorial behavior of Short-eared Owls, *Asio flammeus*, at more than 1000 km north of their current breeding range in north-eastern Canada: evidence of range expansion. **Canadian Field-Naturalist** 124:58-60. doi: 10.22621/cfn.v124i1.1032
- Valéry, L., M.-C. Cadieux & G. Gauthier. 2010. Spatial heterogeneity of primary production as both cause and consequence of foraging patterns of an expanding Greater Snow Goose colony. **Ecoscience** 17:9-19. doi: 10.2980/17-1-3279

2009

- Gagnon, C.A. & D. Berteaux. 2009. Integrating Traditional Ecological Knowledge and Ecological Science: a question of scale. **Ecology and Society** 14, article 19.
- Gauthier, G., D. Berteaux, C.J. Krebs & D. Reid. 2009. Arctic lemmings are not simply food limited – a reply to Oksanen et al. **Evolutionary Ecology Research** 11: 483-484.
- Lecomte, N., G. Gauthier, & J.-F. Giroux. 2009. A link between water availability and nesting success mediated by predator-prey interactions in the Arctic. **Ecology** 90:465-475. doi: 10.1890/08-0215.1
- Lecomte, N., G. Gauthier, J.-F. Giroux, E. Milot & L. Bernatchez. 2009. Tug of war between continental gene flow and rearing site philopatry in a migratory bird: the sex-biased dispersal paradigm reconsidered. **Molecular Ecology** 18:593-602. doi: 10.1111/j.1365-294X.2008.04067.x

Pouliot R., L. Rochefort & G. Gauthier. 2009. Moss carpets constrain the fertilizing effects of herbivores on graminoid plants in arctic polygon fens. **Botany** 87:1209-1222 doi: 10.1111/j.1365-294X.2008.04067.x

2008

- Careau, V., J.-F. Giroux, G. Gauthier & D. Berteaux. 2008. Surviving on cached food – the energetics of egg-caching by arctic foxes. **Canadian Journal of Zology** 86:1217-1223. doi: 10.1111/j.1365-294X.2008.04067.x
- Careau, V., N. Lecomte, J. Bêty, J.-F. Giroux, G. Gauthier & D. Berteaux. 2008. Food hoarding of pulsed resources: temporal variations in egg-caching behaviour of arctic fox. **Ecoscience** 15:268-273. doi: 10.2980/15-2-3097
- Dickey M.-H., G. Gauthier & M.-C. Cadieux. 2008. Climatic effects on the breeding phenology and reproductive success of an arctic-nesting goose species. **Global Change Biology** 14:1973-1985. doi: 10.1111/j.1365-2486.2008.01622.x
- Ellis, C.J., L. Rochefort, G. Gauthier & R. Pienitz. 2008. Paleoecological evidence for transitions between contrasting land-forms in a polygon-patterned High Arctic wetland. **Arctic, Antarctic and Alpine Research** 40:624-637. doi: 10.1657/1523-0430(07-059)[ELLIS]2.0.CO;2
- Gauthier G. & J.-D. Lebreton. 2008. Analysis of band-recovery data in a multisate capture-recapture framework. **Canadian Journal of Statistics** 36:1-15. doi: 10.1002/cjs.5550360107
- Gruyer, N., G. Gauthier & D. Berteaux. 2008. Cyclic dynamics of sympatric lemming populations on Bylot Island, Nunavut, Canada. **Canadian Journal of Zoology** 86:910-917. doi: 10.1002/cjs.5550360107
- Jasmin, J.N., L. Rochefort & G. Gauthier. 2008. Goose grazing influences the fine-scale structure of an arctic wetland bryophyte community. **Polar Biology** 31:1043-1049. doi: 10.1007/s00300-008-0443-y
- Lecomte, N., G. Gauthier & J.-F. Giroux. 2008. Breeding dispersal in a heterogeneous landscape: the influence of habitat and nesting success in greater snow geese. **Oecologia** 155:33-41. doi: 10.1007/s00442-007-0860-6
- Lecomte, N., V. Careau, G. Gauthier & J.-F. Giroux. 2008. Predator behaviour and predation risk in the heterogeneous Arctic environment. **Journal of Animal Ecology** 77:439-447. doi: 10.1111/j.1365-2656.2008.01354.x
- Szor, G., D. Berteaux & G. Gauthier. 2008. Finding the right home: distribution of food resources and terrain characteristics influence selection of denning sites and reproductive dens in arctic foxes. **Polar Biology** 31:351-362. doi: 10.1007/s00300-007-0364-1

2007

- Audet, B., E. Lévesque & G. Gauthier. 2007. Seasonal variation in plant nutritive quality for greater snow goose goslings in mesic tundra. **Canadian Journal of Botany** 85:457-462. doi: 10.1007/s00300-007-0364-1
- Audet, B., G. Gauthier & E. Lévesque. 2007. Feeding ecology of greater snow goose goslings in mesic tundra on Bylot Island, Nunavut, Canada. **Condor** 109:361-376. doi: 10.1093/condor/109.2.361
- Careau, V., J.-F. Giroux & D. Berteaux. 2007. Cache and carry: hoarding behaviour of arctic fox. **Behavioral Ecology and Sociobiology** 62 :87-96. doi: 10.1007/s00265-007-0441-z

- Careau, V., N. Lecomte, J.-F. Giroux & D. Berteaux. 2007. Common raven raid arctic fox food caches. **Journal of Ethology** 25:79-82. doi: 10.1007/s10164-006-0193-7
- Carmichael, L.E., G. Szor, D. Berteaux, M.-A. Giroux, C. Cameron & C. Strobeck. 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. doi: 10.1007/s10164-006-0193-7
- Gauthier, G., P. Besbeas, J.-D. Lebreton & B.J.T. Morgan 2007. Population growth in snow geese: A modeling approach integrating demographic and survey information. **Ecology** 88:1420-1429. doi: 10.1890/06-0953

2006

- Gauthier, G., F. Fournier & J. Larochelle. 2006. The effect of environmental conditions on early growth in geese. **Acta Zoologica Sinica** 52 (supplement):670-674.
- Gauthier, G., J.-F. Giroux & L. Rochefort. 2006. The impact of goose grazing on arctic and temperate wetlands. **Acta Zoologica Sinica** 52 (supplement):108-111.
- Lecomte, N., G. Gauthier, L. Bernatchez & J.-F. Giroux. 2006. A new non-damaging blood sampling technique of waterfowl embryos. **Journal of Field Ornithology** 77:67-70.
- Mainguy, J., G. Gauthier, J.-F. Giroux & I. Duclos. 2006. Habitat use and behaviour of greater snow geese during movements from nesting to brood-rearing areas. **Canadian Journal of Zoology** 84:1096-1103. doi: 10.1139/Z06-096
- Mainguy, J., G. Gauthier, J.-F. Giroux & J. Béty. 2006. Gosling growth and survival in relation to brood movements in Greater Snow Geese. **Auk** 123:1077-1089. doi: 10.1093/auk/123.4.1077

2005

- Calvert, A.M. & G. Gauthier. 2005. Impacts of exceptional conservation measures on survival and seasonal hunting mortality in greater snow geese. **Journal of Applied Ecology** 42:442-452. doi: 10.1111/j.1365-2664.2005.01042.x
- Calvert, A.M., G. Gauthier & A. Reed. 2005. Spatiotemporal heterogeneity of greater snow goose harvest and implications for hunting regulations. **Journal of Wildlife Management** 69:552-564. doi: 10.2193/0022-541X(2005)069[0561:SHOGSG]2.0.CO;2
- Féret, M., J. Béty, G. Gauthier, J.-F. Giroux & G. Picard. 2005. Are abdominal profiles useful to assess body condition of spring staging greater snow geese? **Condor** 107:693-701 doi: 10.1093/condor/107.3.694
- Gauthier, G., J.-F. Giroux, A. Reed, A. Béchet & L. Bélanger. 2005. Interactions between land use, habitat use and population increase in greater snow geese: what are the consequences for natural wetlands? **Global Change Biology** 11:856-868. doi: 10.1111/j.1365-2486.2005.00944.x
- Menu, S., G. Gauthier & A. Reed. 2005. Survival of young greater snow geese during fall migration. **Auk** 122:479-496. doi: 10.1093/auk/122.2.479
- Reed, E.T., G. Gauthier & R. Pradel. 2005. Effects of neck bands on reproduction and survival of female greater snow geese. **Journal of Wildlife Management** 69:91-100. doi: 10.2193/0022-541X(2005)069<0091:EONBOR>2.0.CO;2

2004

- Béchet, A., A. Reed, N. Plante, J.-F. Giroux & G. Gauthier. 2004. Estimating the size of the greater snow goose population. **Journal of Wildlife Management** 68: 639-649 doi: 10.2193/0022-541X(2004)068[0639:ETSOTG]2.0.CO;2
- Béchet, A., J.-F. Giroux, & G. Gauthier. 2004. The effects of disturbance on behaviour, habitat use and energy of spring staging snow geese. **Journal of Applied Ecology** 41:689-700. doi: 10.1111/j.0021-8901.2004.00928.x
- Bêty, J., J.-F. Giroux & G. Gauthier. 2004. Individual variation in timing of migration: causes and reproductive consequences in greater snow geese (*Anser caerulescens atlanticus*). **Behavioural Ecology and Sociobiology** 57:1-8. doi: 10.1007/s00265-004-0840-3
- Ellis, C.J. & L. Rochefort. 2004. Century-scale development of a polygon-patterned tundra wetland, Bylot Island (73°N, 80°W). **Ecology** 85:963-978. doi: 10.1890/02-0614
- Gauthier, G. & J.-D. Lebreton. 2004. Population models for greater snow geese: a comparison of different approaches to assess potential impacts of harvest. **Animal Biodiversity and Conservation** 27:503-514.
- Gauthier, G., J. Bêty, J.-F. Giroux & L. Rochefort. 2004. Trophic interactions in a High Arctic snow goose colony. **Integrative and Comparative Biology** 44:119-129. doi: 10.1093/icb/44.2.119
- Reed, E.T., G. Gauthier & J.-F. Giroux. 2004. Effects of spring conditions on breeding propensity of greater snow goose females. **Animal Biodiversity and Conservation** 27:35-46.

2003

- Béchet, A., J.-F. Giroux, G. Gauthier, J.D. Nichols & J. Hines. 2003. Spring hunting changes the regional movements of migrating greater snow geese. **Journal of Applied Ecology** 40:553-564. doi: 10.1046/j.1365-2664.2003.00812.x
- Bêty, J., G. Gauthier, & J.-F. Giroux. 2003. Body condition, migration and timing of reproduction in snow geese: a test of the condition-dependent model of optimal clutch size. **American Naturalist** 162:110-121.
- Cooch, E.G., G. Gauthier & R. Rockwell. 2003. Apparent differences in stochastic growth rates based on timing of census: a cautionary note. **Ecological Modelling** 159:133-143. doi: 10.1016/S0304-3800(02)00292-2
- Demers, F., J.-F. Giroux, G. Gauthier & J. Bêty. 2003. Effects of collar-attached transmitters on behavior, pair bond, and breeding success of snow geese. **Wildlife Biology** 9:161-170. doi: 10.2981/wlb.2003.047
- Féret, M., G. Gauthier, A. Béchet, J.-F. Giroux & K. Hobson. 2003. Effect of a spring hunt on nutrient storage by greater snow geese in southern Quebec. **Journal of Wildlife Management** 67:796-807. doi: 10.2307/3802687
- Gauthier, G., J. Bêty & K. Hobson. 2003. Are greater snow geese capital breeders? New evidence from a stable isotope model. **Ecology** 84:3250-3264. doi: 10.1890/02-0613
- Reed, E.T., G. Gauthier, R. Pradel & J.-D. Lebreton. 2003. Age and environmental conditions affect recruitment in greater snow geese. **Ecology** 84:219-230. doi: 10.1890/0012-9658(2003)084[0219:AAECAR]2.0.CO;2
- Reed, E.T., J. Bêty, J. Mainguy, G. Gauthier & J.-F. Giroux. 2003. Molt migration in relation to breeding success in greater snow geese. **Arctic** 56:76-81.

2002

- Bêty, J., G. Gauthier, E. Korpimäki & J.-F. Giroux. 2002. Shared predators and indirect trophic interactions: lemming cycles and arctic-nesting geese. **Journal of Animal Ecology** 71:88- 98. doi: 10.1046/j.0021-8790.2001.00581.x
- Mainguay, J., J. Bêty, G. Gauthier & J.-F. Giroux. 2002. Are body condition and reproductive effort of laying greater snow geese affected by the spring hunt? **Condor** 104:156-162. doi: 10.1093/condor/104.1.156
- Menu, S., G. Gauthier & A. Reed. 2002. Changes in survival rates and population dynamics of greater snow geese over a 30-year period: implications for hunting regulations. **Journal of Applied Ecology** 39:91-102. doi: 10.1046/j.1365-2664.2002.00692.x
- Reed, A., R.J. Hughes, & H. Boyd. 2002. Patterns of distribution and abundance of Greater Snow Geese on Bylot Island, Nunavut, Canada 1983-1998. **Wildfowl** 53:53-65.
- Righi, M. & G. Gauthier. 2002. Natural infection by intestinal cestodes: variability and effect on growth in greater snow goose goslings. **Canadian Journal of Zoology** 80:1077-1083. doi: 10.1139/Z02-089

2001

- Bêty, J. & G. Gauthier. 2001. Effects of nest visits on predators activity and predation rate in a snow goose colony. **Journal of Field Ornithology** 72:573-586. doi: 10.1648/0273-8570-72.4.573
- Bêty, J., G. Gauthier, J.-F. Giroux & E. Korpimäki. 2001. Is goose nesting success and lemming cycles linked? Interplay between nest density and predators. **Oikos** 93:388-400. doi: 10.1034/j.1600-0706.2001.930304.x
- Gauthier, G., R. Pradel, S. Menu & J.-D. Lebreton. 2001. Seasonal survival of greater snow geese and effect of hunting under dependence in sighting probability. **Ecology** 82:3105-3119. doi: 10.1890/0012-9658(2001)082[3105:SSOGSG]2.0.CO;2
- Massé, H., L. Rochefort & G. Gauthier. 2001. Carrying capacity of wetland habitats used by breeding greater snow geese. **Journal of Wildlife Management** 65:271-281. doi: 10.2307/3802906
- Menu, S., G. Gauthier & A. Reed. 2001. Survival of juvenile greater snow geese immediately after banding. **Journal of Field Ornithology** 72:282-290. doi: 10.1648/0273-8570-72.2.282
- Poussart, C., G. Gauthier & J. Larochelle. 2001. Incubation behavior of greater snow geese in relation to weather conditions. **Canadian Journal of Zoology** 79:671-678. doi: 10.1139/cjz-79-4-671

2000

- Fortin, D. & G. Gauthier. 2000. The effect of postural adjustment on the thermal environment of greater snow goose goslings. **Canadian Journal of Zoology** 78:817-821. doi: 10.1139/z00-002
- Fortin, D., G. Gauthier & J. Larochelle. 2000. Body temperature and resting behavior of greater snow goose goslings in the High Arctic. **Condor** 102:163-171. doi: 10.1093/condor/102.1.163
- Fortin, D., J. Larochelle & G. Gauthier. 2000. The effect of wind, radiation and body orientation on the thermal environment of greater snow goose goslings. **Journal of Thermal Biology** 25:227-238. doi: 10.1016/S0306-4565(99)00028-5

- Lepage, D., G. Gauthier & S. Menu. 2000. Reproductive consequences of egg-laying decisions in snow geese. **Journal of Animal Ecology** 69:414-427. doi: 10.1046/j.1365-2656.2000.00404.x
- Menu, S., J.B. Hestbeck, G. Gauthier & A. Reed. 2000. Effects of neck bands on survival of greater snow geese. **Journal of Wildlife Management** 64:544-552. doi: 10.2307/3803252
- Morez, V., G. Gauthier & A. Reed. 2000. Effect of body condition on the vulnerability of greater snow geese to hunting and capture. **Journal of Wildlife Management** 64:875-886. doi: 10.2307/3802758
- Poussart, C., J. Larochelle & G. Gauthier. 2000. The thermal regime of eggs during laying and incubation in Greater Snow Geese. **Condor** 102:292-300. doi: 10.1093/condor/102.2.292

1999

- Blouin, F., J.-F. Giroux, J. Ferron, G. Gauthier, & J. Doucet. 1999. The use of satellite telemetry to track greater snow geese. **Journal of Field Ornithology** 70:187-199
- Lepage, D., A. Desrochers & G. Gauthier. 1999. Seasonal decline of growth and fledging success in snow geese *Anser caerulescens*: an effect of date or parental quality? **Journal of Avian Biology** 30:72-78. doi: 10.2307/3677245
- Piedboeuf, N. & G. Gauthier. 1999. Nutritive quality of forage plants for greater snow goose goslings: when is it advantageous to feed on grazed plants? **Canadian Journal of Zoology** 77:1908-1918. doi: 10.1139/z99-175

1998

- Lepage, D., G. Gauthier & A. Desrochers. 1998. Larger clutch size increases fledging success and offspring quality in a precocial species. **Journal of Animal Ecology** 67:210-216.
- Lepage, D., G. Gauthier & A. Reed. 1998. Seasonal variation in growth of greater snow goose goslings: the role of food supply. **Oecologia** 114:226-235 doi: 10.1007/s00442005044
- Lesage, L. & G. Gauthier. 1998. Effect of hatching date on body and organ development in greater snow goose goslings. **Condor** 100:316-325. doi: 10.2307/1370272

1997

- Lepage, D., D. N. Nettleship, and A. Reed. 1998. Birds of Bylot Island and adjacent Baffin Island, Northwest Territories, Canada, 1979 to 1997. **Arctic** 51:125-141
- Lesage, L. & G. Gauthier. 1997. Growth and organ development in greater snow goose goslings. **Auk** 114:229-241. doi: 10.2307/4089164
- Tremblay, J.-P., G. Gauthier, D. Lepage, & A. Desrochers. 1997. Factors affecting nesting success in greater snow geese: effects of habitat and association with snowy owls. **Wilson Bulletin** 109:449-461.

1996

- Beaulieu, J., G. Gauthier & L. Rochefort. 1996. The growth response of graminoid plants to goose grazing in a High arctic environment. **Journal of Ecology** 84:905-914. doi: 10.2307/2960561
- Gauthier, G., L. Rochefort & A. Reed. 1996. The exploitation of wetland ecosystems by herbivores on Bylot Island. **Geoscience Canada** 23:253-259.
- Lepage, D., G. Gauthier & A. Reed. 1996. Breeding site infidelity in greater snow goose: a consequence of constraints on laying dates? **Canadian Journal of Zoology** 74:1866-1875. doi: 10.1139/z96-210

1995

- Choinière, L. & G. Gauthier. 1995. Energetics of reproduction in female and male greater snow geese. **Oecologia** 103:379-389 doi: 10.1007/BF00328628
- Gauthier, G. & R.J. Hughes. 1995. The palatability of arctic willow for greater snow geese: the role of nutrients and deterring factors. **Oecologia** 103:390-392. doi: 10.1007/BF00328629
- Gauthier, G., R.J. Hughes, A. Reed, J. Beaulieu & L. Rochefort. 1995. Effect of grazing by greater snow geese on the production of graminoids at an arctic site (Bylot Island, NWT, Canada). **Journal of Ecology** 83:653-664 doi: 10.2307/2261633
- Reed, A., R.J. Hughes & G. Gauthier. 1995. Incubation behavior and body mass of female greater snow geese. **Condor** 97:993-1001 doi: 10.2307/1369538

1994

- Hughes, R.J., A. Reed & G. Gauthier. 1994. Variation in space and habitat use by greater snow goose broods. **Journal of Wildlife Management** 58:536-545 doi: 10.2307/3809326
- Hughes, R.J., G. Gauthier & A. Reed. 1994. Summer habitat use and behaviour of greater snow geese *Anser caerulescens atlanticus*. **Wildfowl** 45:49-64
- Lindholm, A., G. Gauthier & A. Desrochers. 1994. Effects of hatch date and food supply on gosling growth in arctic-nesting greater snow geese. **Condor** 96:898-908.

1993

- Gauthier, G. 1993. Feeding ecology of nesting greater snow geese. **Journal of Wildlife Management** 57:216-223. doi: 10.2307/3809416
- Manseau, M. & G. Gauthier. 1993. Interactions between greater snow geese and their rearing habitat. **Ecology** 74:2045-2055. doi: 10.2307/1940850

1992

- Gauthier, G., Giroux, J.-F. & J. Bédard. 1992. Dynamics of fat and protein reserves during winter and spring migration in greater snow geese. **Canadian Journal of Zoology** 70:2077-2087. doi: 10.1139/z92-280
- Reed, A., H. Boyd, P. Chagnon, and J. Hawkings. 1992. The numbers and distribution of greater snow geese on Bylot Island and near Jungersten Bay, Baffin Island, in 1988 and 1983. **Arctic** 45:115-119

1991

- Gauthier, G. & J. Tardif. 1991. Female feeding and male vigilance during nesting in greater snow geese. **Condor** 93:701-711. doi: 10.2307/1368202