

POPULATION STUDY OF GREATER SNOW GEESE AND ITS NESTING HABITAT ON BYLOT ISLAND, NUNAVUT IN 2024: A PROGRESS REPORT



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INTRODUCTION

Like many other goose populations worldwide, Greater Snow Geese (*Anser caerulescens atlanticus*) have increased considerably during the late 20th century. The exploding population has imposed major stress on its breeding habitat, while extensive use of agriculture lands provides an unlimited source of food during winter and migratory stopovers for them. Remedial management actions during fall, winter and spring have been undertaken since 1999 in Canada and 2009 in the United States to curb the growth of this population. A synthesis report produced in 2007 evaluated the initial success of these special conservation measures. However, both the Avian Monitoring Review Steering Committee Final Report and the Greater Snow Goose Action Plan released in 2012 by the Canadian Wildlife Service called for a continued monitoring of the dynamic of this population and of its habitats. In response to those needs, the long-term objectives of this project are to (1) monitor changes in the demographic parameters of the Greater Snow Goose population, and especially the effects of the spring conservation harvest on those parameters, (2) determine the role of food availability and predation in limiting annual production of geese, and (3) monitor the impact of grazing on the Arctic vegetation.

Original activities planned for this project in 2024 included studying of goose reproduction, goose banding, monitoring of lemming abundance, monitoring of avian predators and fox reproduction, sampling plant production in wetlands and monitoring weather and snow melt on Bylot Island, Nunavut. However, in 2024 our fieldwork had to be canceled entirely with camp demobilization from 3 June to 18 July due to a lack of helicopter support in the Pond Inlet region caused by a helicopter crash (with minor injuries to the pilot) that occurred in Labrador in early May. Hence, we were able to collect data in the field only during a short 3-week field season in May with 6 persons in camp and a 4-week field season from late July to late August with a full crew of 34 fieldworkers.

OBJECTIVES

Specific goals for 2024 were as follows:

- 1) Monitor the nesting distribution of Greater Snow Geese on Bylot Island.
- 2) Band goslings and adults at the end of the summer to continue the long-term study of demographic parameters such as survival and breeding propensity.
- 3) Monitor the abundance of lemmings and study their demography in relationship with snow conditions and the impact of predation on their cyclic fluctuations of abundance.
- 4) Monitor the breeding activity of other bird species and in particular avian predators (Snowy Owl, jaegers, Glaucous Gull, Peregrine Falcon and Rough-legged Hawk).
- 5) Monitor the breeding activity of foxes at dens.
- 6) Maintain our automated environmental and weather monitoring system.

FIELD ACTIVITIES

Field camps. — In 2024, we operated only one camp on Bylot Island: the main field station, located 6 km from the coast in the largest glacial valley on the island (Qarlikturvik Valley, 73° 08' N, 80° 00' W), was occupied from 13 May to 3 June and 19 July to 30 August. Two fly camps were also established for 13 days near the goose colony region.

Field parties. — The total number of people in camp ranged from 6 to 16 depending on the period. Members of our field party included project leaders Pierre Legagneux, Joël Bêty, Dominique Fauteux, Jean-François Therrien and several graduate students whose thesis projects addressed many of the objectives mentioned above: Ilona Grenzmann (PhD, objective 2), Gabriel Bergeron (PhD, objectives 3 and 4), Camille Gaudreau-Rousseau (PhD, objective 3), Matthieu Weiss-Blais (MSc, objectives 1 and 2). Other students assisted them in the field, including Louis-Pierre Ouellet, Frédéric Dulude-de Broin, Anne-Marie-Blanchette, Andréanne Beardsell, Laurianne Dumont, Véronique Dion-Larivière, Alexia Labelle, Nayla Beaumont and Madeleine-Zoé Corbeille-Robitaille. Other people in the field included Marie-Christine Cadieux, a research professional in charge of goose banding (objective 2); Denis Sarrazin, research professional responsible of the maintenance of the weather stations (objective 6); and Christian Marcotte, a wildlife technician and Yannick Seyer, a biologist from the Canadian Wildlife Service (CWS, Quebec region). Finally, we hired 1 person from Pond Inlet to work with us: Floyd Tigullaraq (goose banding: 5 to 14 August).

Several other people also used our camps during the summer. They were Louis Moisan (PhD student), Éliane Duchesne (research assistant), Éléonore Douville, Jonathan Brassard (research assistant at Université de Sherbrooke) and Jamie Depolla, who studied cackling geese under the supervision of Joël Bêty; the field party of Esther Lévesque, Christophe Kinnard and Vincent Maire (Université du Québec à Trois-Rivières [UQTR]), which included Laurent Lessard (PhD student), Thierry Laurent-St-Pierre and Alyson Rochefort who studied plant ecology and hydrology; the field party of Isabelle Laurion and Jérôme Comte (Institut National de la Recherche Scientifique), which included Valentine Cyriaque (post-doctoral fellow), Riley Hughes (PhD student) and Alizée Le Moigne (post-doctoral fellow), who studied the carbon cycle in ponds; the field party of Florent Dominé (Takuvik, Université Laval/CNRS) with Félix Lévesque-Desrosiers (PhD student), Étienne Tremblay, Antoine Thiboult (research professional) and Françoise Grenier who studied the snow physical properties.

Other people from Pond Inlet also visited the camp David Suqslak, Levi Komangapik and Cedar Jasiuk, accompanied by Colin Smith and Caleb Roberts from Black Feather, guided the research teams of Christophe Kinnard and Florent Dominé in snowmobiles to bring them to the main field station in early May. Christopher Mutch from the Government of Nunavut made a quick stop at our camp in August while on his way to Cape Hay. Neil Pilgrim from Parks Canada inspected both our camps at the end of August.

Environmental and weather data. — Environmental and weather data continued to be recorded at our four automated stations. Our network includes 3 full stations, two at low and one at high elevation (20 m and 312 m ASL, respectively) where air and ground temperature, air humidity, precipitations, snow depth, solar radiation, wind speed and wind direction are recorded on an hourly basis throughout the year (Fig. 1). A fourth station measures soil surface temperature in areas grazed and ungrazed by geese (i.e. exclosures). All automated stations were visited during the summer to download data and were found to be operating normally. Daily precipitation was also recorded manually starting on 19 July. Finally, early snowmelt was monitored by measuring snow depth at 50 stations along two 250-m transects in the Qarlikturvik Valley, both at 2-day intervals.

Monitoring of goose nesting. — Since no field activity occurred during the breeding period on Bylot Island this year, we inferred nesting abundance at Camp 2, where the main goose colony is located. Nest searches were conducted at the end of July using two methods: 1) over an intensively studied core area (ca 20 ha) located in the centre of the colony every year, and 2) within nine 4-ha plots randomly located throughout the colony. Nest density was calculated for both areas.

Nests of other goose species, and in particular Cackling Geese (*Branta hutchensii*), were also systematically recorded during our field activities near Camp 2.

Goose banding. — From 5 to 14 August, we banded geese with the assistance of a helicopter. Goose flocks of a few hundred birds were rounded up and driven by people on foot into a holding pen made of plastic netting. All captured geese were sexed and banded with a metal band, and all recaptures (web-tagged or leg-banded birds) were recorded. A sample of young and adults was measured (body mass and length of culmen, head, tarsus and 9th primary). We also collected cloacal and blood samples on geese to study their aging process.

Small mammals. — We sampled lemming abundance and demography using live traps. We trapped on two grids (210 × 210 m) in the Qarlikturvik Valley (one in wet meadow habitat and one in mesic habitat) with 64 traps per grid and on a 3rd grid (210 × 210 m; 64 traps) in mesic habitat where a predator exclosure experiment was set up in 2012-2013 (the grid is surrounded by a chicken wire fence and covered by criss-crossing fishing line on top). The fishing line covering the grid to prevent avian predators to enter inside the enclosure was removed in summer 2022 but the fence remained in place. We used Longworth traps set at each grid intersection every 30-m. We trapped for 3 consecutive days during 2 periods (late July and mid-August). Traps were checked at 12-hour intervals and all captured animals were identified, sexed, weighed and marked with electronic PIT tags or ear-tags (or checked for the presence of such tags). Finally, we sampled the abundance of lemming winter nests along 65 500-m transects randomly distributed in different habitats (mesic tundra, streams in mesic tundra and willow shrubs) around the main field station.

Breeding activity of foxes at dens and marking. — In 2024, the monitoring of fox dens could only be carried out from 13 May to 3 June and a few days at the end of July. Our research area (650 km²) ranging from the Qarlikturvik Valley in the north to Dufour Point in the south and from the coast to approximately 10 km inland has 117 known dens. Dens around the main field station were visited in the spring while some dens around the Camp 2 region were visited in late July. Dens were inspected for signs of use and/or presence of reproductive adults with pups. Automated cameras were deployed at dens showing signs of activity to determine reproductive status of dens. It also provides excellent data on litter size, diet and food provisioning by parents. In 2024, no fox was captured or equipped with a collar, and no winter and summer fur was collected.

Monitoring of other bird species. — We monitored the nesting activity of Snowy Owls (*Bubo scandiacus*), Long-tailed and Parasitic Jaegers (*Stercorarius longicaudus* and *S. parasiticus*), Glaucous Gulls (*Larus hyperboreus*), Peregrine Falcons (*Falco peregrinus*) and Rough-legged Hawks (*Buteo lagopus*). Lapland longspur (*Calcarius lapponicus*) nesting activity was not monitored in 2024. Gull and Long-tailed jaeger nests were only monitored in the Qarlikturvik Valley and the Camp-2 area, but nests of other avian predators were monitored throughout the same 650 km² area than for foxes. Nests were found only in late July through systematic searches of suitable habitats or opportunistically.

PRELIMINARY RESULTS

Weather conditions. — Temperatures in spring were cool. Air temperature averaged -2.7°C (0.2°C below normal) between 20 May and 5 June, the period of goose arrival, and 1.8°C (0.7°C below normal) during 5-20 June, which is the most critical period for egg formation and egg-laying. Snowpack at the end of the winter was lower than normal (snow depth was 39.1 cm on 20 May; Fig. 2).

Goose nesting activity. — Nest density in the center of the colony (8.1 nests/ha) was lower than last year while density outside the colony in mesic plots (0.88 nests/ha) was lower than last year (Table 1). We also found 32 nests of Cackling Geese.

Goose banding. — The banding operation was difficult this year due to bad weather during the banding period. We conducted 7 drives between the main field station and the Camp 2 area. We banded a total of 2087 geese and recaptured 132 adults that were banded in previous years. We collected cloaca and blood samples from 21 goslings and 52 adults. The young:adult ratio among geese captured at banding was lower than last year (1.08:1 vs. 1.15:1 in 2023; long-term average:1.02:1). Mean brood size toward the end of brood-rearing (2.72 young, $n = 167$; counts conducted on 3 and 4 August) was slightly higher than last year (2.42) and the long-term average (2.49). By combining information on brood size and young:adult ratio at banding, we estimated that 80% of the adults captured were accompanied by young, a moderate value. Overall, these results are indicative of a good production of young on Bylot Island by the end of the summer.

Small mammals. — During our live-trapping survey, which cumulated 1,920 12-hr trapping sessions from late July to mid-August, we captured 71 Collared Lemmings and 99 Brown Lemmings, a moderate number. A formal estimation of density using capture-recapture methods confirmed that after two years of low abundance, both Brown and Collared Lemmings had increased in 2024 (Fig. 3). Finally, the number of lemming winter nests found along our transects confirmed an increase in lemmings during winter as we counted 110 nests in 2024 compared to 41 in 2023.

Breeding activity of foxes at dens and marking. — A total of 46 known fox denning sites were visited in May and an additional 21 in late July. Among these dens, we found signs of activity (fresh digging and/or footprints) at 37 of them. Based on pictures taken by automatic cameras installed at these dens, 6 litters of Arctic Foxes (between 5 and 12 pups) and 2 of Red Foxes (between 3 and 7 pups) were seen around the main field station.

Monitoring of other bird species. — In late July, we found 3 active nests of Glaucous Gulls, 1 nest of Parasitic Jaegers, 1 nest of Long-tailed Jaegers, 8 nests of Rough-legged Hawks, 3 nests of Peregrine Falcons and 10 nests of Snowy Owls. The presence of owls in our study area is further evidence of high lemming abundance.

CONCLUSIONS

Our ability to conduct our usual research was greatly disrupted this year by the helicopter crash in May. Despite our efforts, it was not possible to find a replacement, and all monitoring activities on Bylot Island had to be canceled from 3 June to 19 July. The team on-site in May confirmed that geese arrived early this year (14 May vs. our previous earliest observation of 10 May, based on our records since 2007), snowmelt began around the long-term average date and that lemmings and snowy owls were present in high numbers this year with multiple reproductive fox dens. However, monitoring activities truly began only in late July when we were able to implement several protocols.

Regarding geese, the nest count conducted within our long-term monitoring plot showed that nest density was above the long-term average. In terms of nesting success, we observed some indications of low predation levels, though without precise quantification. The proportion of young recorded in our catches at banding shows that production of geese on Bylot Island was good and above average in 2024. Based on the young:adult ratio recorded at banding, we predicted a percentage of young in the fall flock of 24%, a much higher value than the one observed last year (15%) and the long-term average (22%). Monitoring carried out by the Canadian Wildlife Service in southern Quebec during the fall showed an equivalent percentage, 23% ($n = 27,472$), confirming that our monitoring on Bylot Island is representative of the overall population.

PLANS FOR 2025

The long-term objectives of our work are to study the population dynamics of Greater Snow Geese, and the interactions between geese, plants, and their predators on Bylot Island. A major focus of the project is to monitor changes in demographic parameters (such as survival rate, hunting mortality, breeding propensity, reproductive success, and recruitment) and habitat (annual plant production and grazing impact) in response to the spring conservation harvest and other special management actions implemented since 1999 in Canada and since 2009 in the United States. Other aspects of the project include *i*) understanding better the links between events occurring during the spring migration and the subsequent breeding success of geese; *ii*) studying indirect interactions between snow geese and lemmings via shared predators; *iii*) studying the ecology of the main predator of geese, the Arctic Fox; and *iv*) assessing the impact of climate change on goose reproduction and the carrying capacity of the habitat for geese. In 2025, we anticipate to:

- 1) Monitor productivity (egg laying date, clutch size and nesting success) and nesting distribution of Greater Snow Geese on Bylot Island.
- 2) Mark goslings in the nest to provide a sample of known-age individuals to assess the growth and pre-fledging survival of goslings by their recapture in late summer.
- 3) Band goslings and adults at the end of the summer to continue the long-term study of demographic parameters such as survival and breeding propensity.
- 4) Monitor the abundance of lemmings and study their demography and the impact of predation on their cyclic fluctuations of abundance.
- 5) Monitor wintering ecology of lemmings and ermines with passive sensors and cameras.
- 6) Monitor the breeding activity of other bird species, in particular avian predators (Snowy Owls, jaegers, Glaucous Gulls, Peregrine Falcons and Rough-legged Hawks).
- 7) Monitor the breeding activity of foxes at dens.
- 8) Capture and mark adult foxes and their pups to study their movements, demography and foraging activity.
- 9) Sample plants in exclosures to assess annual production and the impact of goose grazing on plant abundance in wet meadows.
- 10) Maintain our automated environmental and weather monitoring system.

In 2025, at least 4 graduate students will be involved in the Bylot Island snow goose project. **Gabriel Bergeron** (PhD) will continue his study on seasonal Arctic food-web modeling. **Camille Gaudreau-Rousseau** (PhD) will continue her study on the vulnerability of lemmings to predation by ermine in different phases of the cycle. **Anne-Marie Blanchette** (MSc) will finish her study on the combined effect of predation on lemming populations and their grazing impact on vegetation productivity and diversity. **Pierre Fugère** (MSc) will start his project on the change of distribution of the two snow goose subspecies using long-term capture-mark-recapture data.

Table 1. Productivity data of Greater Snow Geese nesting on Bylot Island over the past decade.

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Average ²
Number of nests monitored	347	337	342	277	422	580 ³	487 ³	332	558	0	--
Nest density in the core of the colony (n/ha)	9.26	5.50	8.14	3.46	5.70	8.35 ³	9.09 ³	4.09	10.56	8.14	5.10
Nest density in mesic random plots (n/ha)	1.78	3.60	2.33	1.88	3.88	3.24	2.83	1.17	1.15	0.88	1.93
Median date of egg-laying	12 June	13 June	11 June	14 June	7 June	12 June ⁴	13 June ⁴	15 June	15 June	--	12 June
Clutch size	3.48	3.36	3.53	3.50	4.04	3.67 ⁴	2.75 ⁴	3.74	3.66	--	3.71
Nesting success ¹	77%	73%	56%	50%	82%	64% ³	--	37%	70%	--	67%
Median date of hatching	9 July	9 July	8 July	11 July	4 July	11 July ⁴	10 July ⁴	12 July	13 July	--	9 July
Ratio young:adult at banding	0.99:1	0.91:1	0.88:1	0.94:1	1.20:1	--	1.02:1	0.53:1	1.15:1	1.08	1.02:1
Brood size at banding	2.08	2.35	2.14	2.34	2.65	--	2.51	2.28	2.42	2.72	2.49
Proportion of adults with young at banding	95%	78%	83%	81%	91%	--	81%	47%	95%	80%	82%
Number of Cackling goose nests found	11	28	40	61	76	--	--	61	100	0	35 ⁶

¹ Mayfield estimate.² Period 1989-2019 and 2022-2023. Data from 2020, 2021 and 2024 are not included in the long-term average (except banding data) because different protocols were used.³ These values were estimated from analyses of satellite images.⁴ These values are only based on the GPS-tracking of 4 females that nested on Bylot Island.⁶ Period 2010-2019 and 2022-2023.

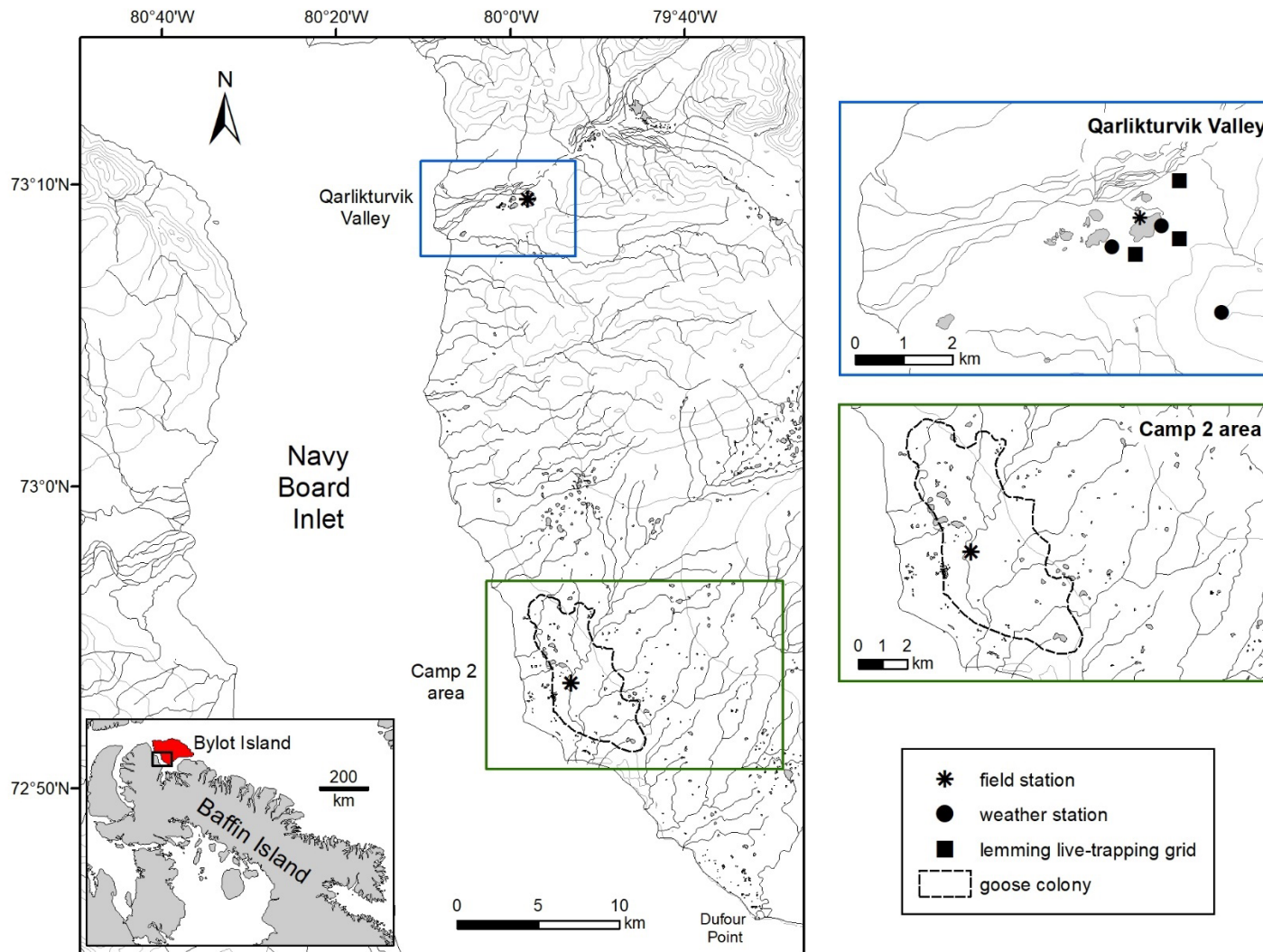


Figure 1. Location of the two main study sites (Qarlikturvik Valley and the Camp 2 area) on the South Plain of Bylot Island, Nunavut. Enlarged maps on the right present these study sites in more details, including locations of our field stations, automated weather stations, lemming live-trapping grids and the extent of the main snow goose colony. The Qarlikturvik Valley is predominantly a brood-rearing area for geese.

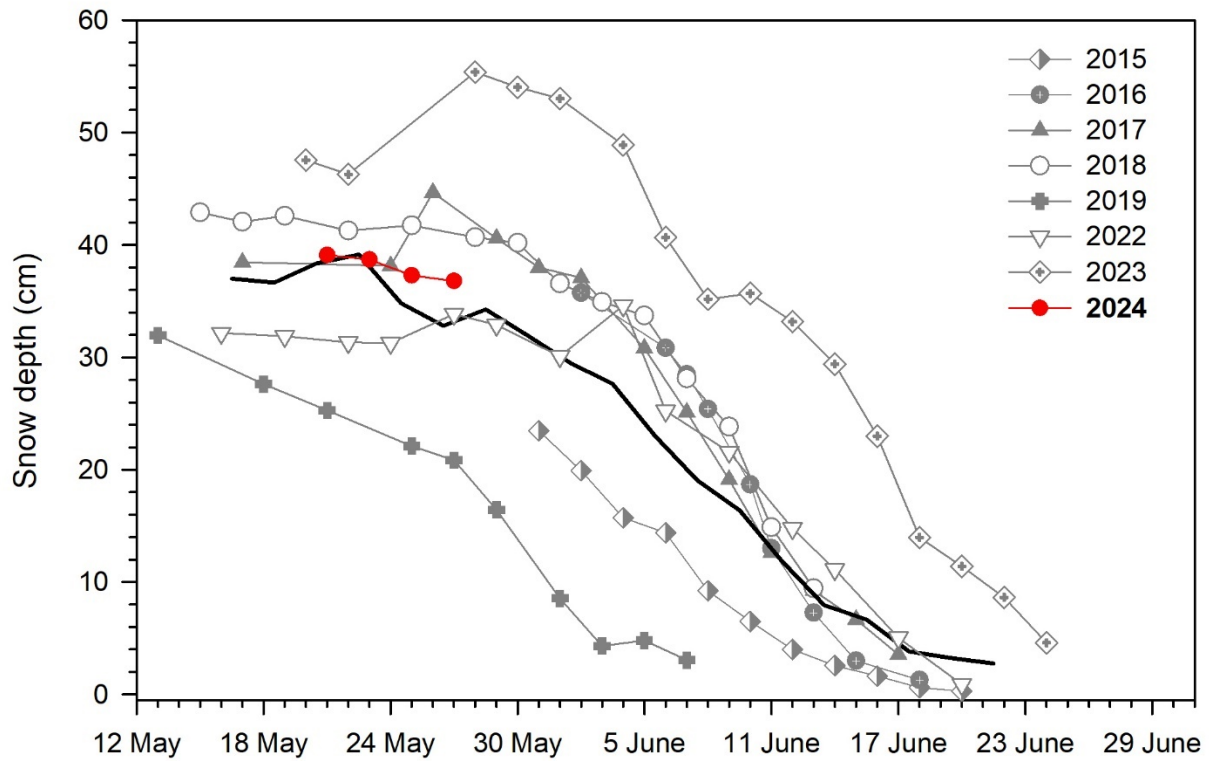


Figure 2. Average snow depth along two transects showing the rate of snowmelt in the lowlands of Bylot Island in spring over the past decade ($n = 50$ stations). The thick solid line represents the average snowmelt rate since 1995. No field data available in 2020 and 2021 due the covid19 pandemic.

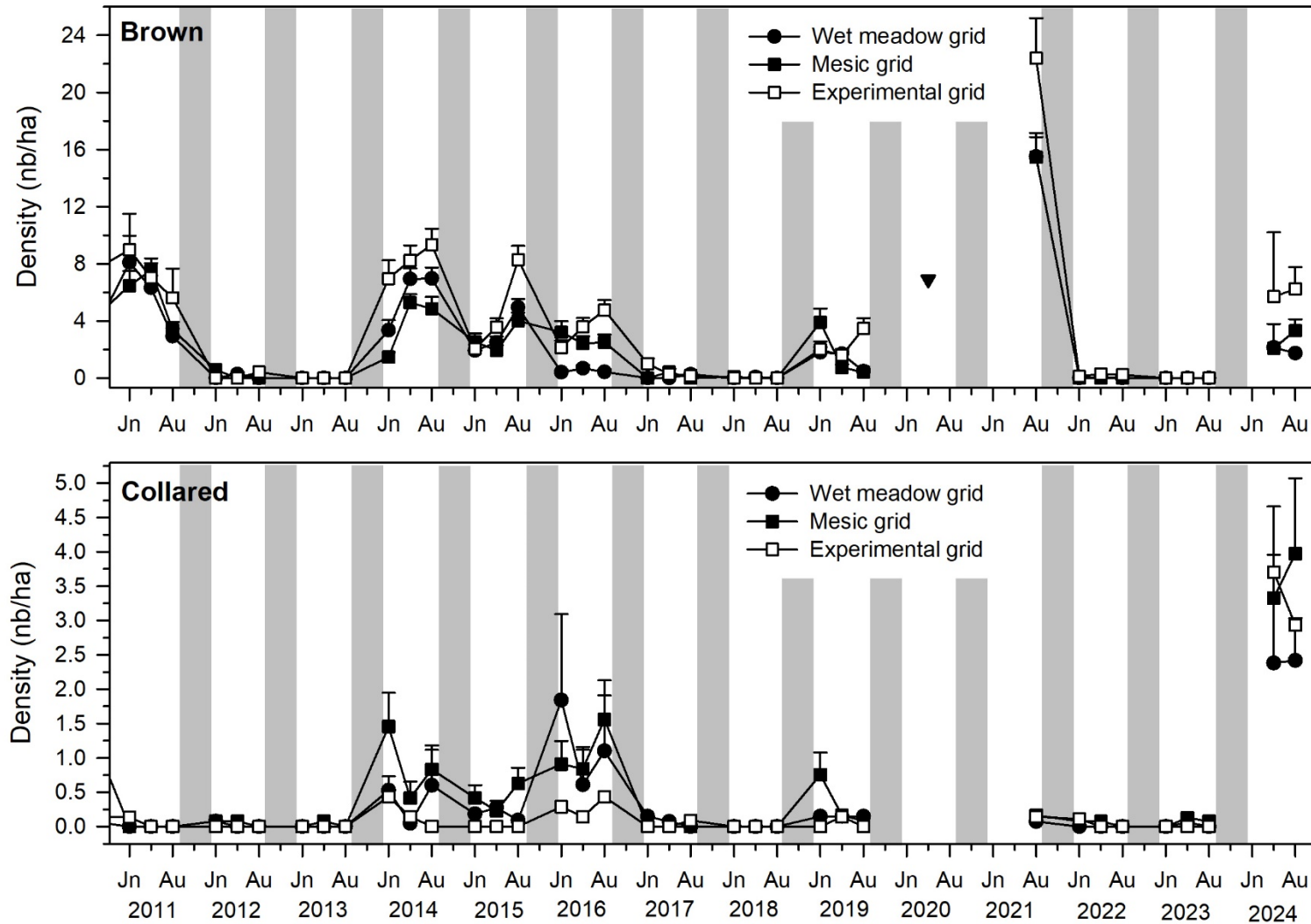


Figure 3. Annual summer density (+ SE) of Brown and Collared Lemmings on three trapping grids located in the Qarlikturvik Valley of Bylot Island over the past 14 years (snow cover was increased from 2008 to 2011 and predators were excluded from 2012 to 2022 on the experimental grid). The gray area indicates winter. Jn = mid-June, Au = mid-August. Lemming density in 2020 (both species combined; black triangle) was inferred based on the density of snowy owls estimated through satellite images.

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- C.249. Moisan L., D. Gravel, P. Legagneux, G. Gauthier, A. Bideault & J. Bêty. 2024. Assessing the global connectivity of a local community through seasonal migration: a tale from the High-Arctic. *Conference of the International Biogeography Society*, Prague, Czech Republic.
- C.248. Dulude-de Broin, F., C. Villeneuve, A. Durand, J. Bêty & P. Legagneux. 2023. Earthranger in the canadian Arctic – Leveraging mobile technology to monitor the northern ecosystem of Bylot Island, Nunavut. *Earthranger User Conference 2023*, Cape Town, South Africa.
- C.247. [Linscott, J.A.](#), [E. Basso](#), [R. Bathrick](#), [J. Bosi de Almeida](#), [A.M. Anderson](#), [F. Angulo-Pratolongo](#), [B.M. Ballard](#), [J. Bêty](#), et al. 2023. The importance of the Amazon Basin for Nearctic breeding shorebirds during southward migration. *American Ornithological Society & Society of Canadian Ornithology Conference*, London, ON.
- C.246. LeTourneau, F., T. Grandmont, F. Dulude-de Broin, M.-C. Martin, J. Lefebvre, A. Kato. J. Bêty, G. Gauthier & P. Legagneux. 2022. Impacts of spring hunting on body condition and production of young in greater snow geese: insights from the COVID lockdown. *15th North American Arctic Goose Conference*, Corpus Christi, TX.
- C.245. LeTourneau, F., G. Gauthier, J. Lefebvre, R. Pradel & P. Legagneux. 2022. Combined effects of collar-marking and hunting result in a synergistic interaction and reduce greater snow goose survival. *15th North American Arctic Goose Conference*, Corpus Christi, TX.
- C.244. Grandmont T., F. Dulude-de Broin, F. LeTourneau, G. Gauthier, J. Bêty & P. Legagneux. 2022. Phenological adjustments of migration and reproduction under climate change: can greater snow geese “wind the clock”? *15th North American Arctic Goose Conference*, Corpus Christi, TX.
- C.243. Bolduc, D., D. Fauteux & P. Legagneux. 2022. The role of a specialist predator on a cyclic population. *Gordon Research Conference: Predator-prey Interactions*, Lucca, Italy.
- C.242. Dulude-de Broin, F., C. Villeneuve, P. Legagneux, D. Berteaux, J. Bêty & A. Durand. 2022. Influence of fox predation on prey distribution in the arctic tundra: approaching ecosystemic data with new modelling approaches. *Gordon Research Conference: Predator-prey Interactions*, Lucca, Italy.

- C.241. Dulude-de Broin, F., J. Clermont, A. Beardsell, L-P Ouellet, D. Berteaux, J. Bêty, A. Durand & P. Legagneux. 2022. How does prey availability shape predator territories? *International Arctic fox conference*. Longyearbyen, Svalbard.
- C.240. Landry-Ducharne, L., S. Lai, F. Vézina, A. Tam & D. Berteaux. 2021. Seasonal habitat selection in Arctic hares: explaining mass movements on Ellesmere Island. *ArcticNet Annual Scientific Meeting* (virtual).
- C.239. Moisan, L., D. Gravel, D.-J. Léandri-Breton, J.-F. Lamarre & J. Bêty. 2021. Far, but highly connected: linking a tundra food web to other regions of the globe by migration. *ArcticNet Annual Scientific Meeting* (virtual).
- C.238. Corbeil-Robitaille, M.-Z., É. Duchesne, J. Bêty, D. Fortier & C. Kinnard. 2021. Settling in a countless islets scenery: permafrost processes generate antipredation refuges selected by avian biodiversity. *ArcticNet Annual Scientific Meeting* (virtual).
- C.237. Villeneuve, C., F. Dulude-de Broin, P. Legagneux, D. Berteaux & A. Durand. 2021. Arctic foxes movement modeling through the lens of reinforcement learning. *ArcticNet Annual Scientific Meeting* (virtual).
- C.236. Dulude-de Broin, F., C. Villeneuve, P. Legagneux, D. Berteaux, J. Bêty & A. Durand. 2021. What drives bird distribution in the Arctic? Investigating the role of predation and the physical environment. *ArcticNet Annual Scientific Meeting* (virtual).
- C.235. Poirier, M., D. Fauteux, G. Gauthier, F. Dominé & J.F. Lamarre. 2021. Into the snow: a lemming's journey through the snowpack. *ArcticNet Annual Scientific Meeting* (virtual).
- C.234. Grentzmann, I, F. Angelier, C. Silvestri, G. Gauthier & P. Legagneux. 2021. Understanding senescence of the greater snow goose. *ArcticNet Annual Scientific Meeting* (virtual).
- C.233. Moisan, L., D. Gravel, D.-J. Léandri-Breton, J.-F. Lamarre & J. Bêty. 2021. Identifying spatial pathways in an Arctic food web through a global migration network. *5th Symposium on ecological networks*, Palma, Spain.
- C.232. Clermont, J., A. Woodward-Gagné & D. Berteaux. 2021. Using accelerometry to dig into the behavior of an active hunting predator. *7th International Bio-logging Symposium* (virtual).
- C.231. Gravel, R., S. Lai & D. Berteaux. 2021. Variabilité entre la dispersion natale et adulte chez le renard arctique. *Conférence AUCEN des étudiants en études nordiques* (virtual).
- C.230. Clermont, J. & D. Berteaux. 2021. Arctic fox movements and foraging behaviours *Arctic Fox Conference* (virtual).
- C.229. Berteaux, D. 2021. Arctic fox research: the Bylot Island study area. *Arctic Fox Conference* (virtual).
- C.228. Dulude-de Broin, F., C. Villeneuve, A. Durand, J. Bêty, P. Legagneux. 2021. Influence of fox predation on prey distribution in the arctic tundra: approaching ecosystemic data with new modelling approaches. *Arctic Fox Conference* (virtual).
- C.227. Clermont, J., A. Grenier-Potvin, E. 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. *21st Annual Interdisciplinary Graduate Student Conference* (virtual).
- C.226. Villeneuve, C., F. Dulude-de Broin, P. Legagneux, D. Berteaux & A. Durand. 2021. Preserving the integrity of the Canadian northern ecosystems through reinforcement learning-based arctic fox movement models. *International Conference on Machine Learning - Workshop on Tackling Climate Change With Machine Learning* (virtual).
- C.225. Beardsell, A., D. Gravel, D. Berteaux, G. Gauthier, V. Careau, J. Clermont, C.-C. Juhasz, N. Lecomte, P. Royer-Boutin & J. Bêty. 2021. Mechanistic insights into the role of functional response in apparent mutualism observed in tundra ecosystems. *Ecological Society of America Annual Meeting* (virtual).
- C.224. Brown, A., R. McCabe, J.-F. Therrien, K. Wiebe, S. Weidensaul, D. Brinker, G. Gauthier & K.H. Elliott. 2021. Nomadic breeders Snowy Owls (*Bubo scandiacus*) do not use stopovers to sample the summer environment. *60th meeting of the Canadian Society of Zoologists*, Vancouver, BC.
- C.223. Moisan, L., D. Gravel & J. Bêty. 2020. When Arctic migratory species connect tundra with the rest of the globe: the case of Bylot Island. *Arctic Change 2020 Conference*, Quebec City, QC.

- C.222. LeTourneux, F., T. Grandmont, F. Dulude de-Broin, M.C. Martin, J. Lefebvre, A. Kato, J. Bêty, G. Gauthier & P. Legagneux. 2020. Implications of a COVID-19-induced cease-fire for the management of a harvested overabundant species. *Arctic Change 2020 Conference*, Quebec City, QC.
- C.221. Hutchison, C., P. Legagneux, F. Guichard, J. Bety, D. Berteaux, G. Gauthier, D. Fauteux, A. Allard & D. Gravel. 2020. Arctic seasonal models: evidence for hierarchical temporal processes in food-webs. *Arctic Change 2020 Conference*, Quebec City, QC.
- C.220. Godin, E., W.F. Vincent, G. Gauthier & C. Barrette. 2020. Merged Observatory Data for Arctic Air Temperature (MODAAT) in action: Comparison of temperature data from a High Arctic automated weather station with reanalysis estimates from the ERA5-Land model. *Arctic Change 2020 Conference*, Quebec City, QC.
- C.219. Gauthier, G. & J.F. Therrien. 2020. Recent trends in snowy owl breeding and lemming populations on Bylot Island, Nunavut, Canada. *5th meeting of the International Snowy Owl Working Group*, Pasvik, Norway.
- C.218. Curk, T., I. Pokrovsky, N. Lecomte, O. Kulikova, T. Aarvak, G. Gauthier, K.O. Jacobsen, I.J. Øien, R. Solheim, K. Wiebe, M. Wikelski, J.F. Therrien & K. Safi. 2020. Snowy owls with contrasting migration patterns exhibit different proximate responses to food resources. *5th meeting of the International Snowy Owl Working Group*, Pasvik, Norway.
- C.217. Therrien, J.F., K. Wiebe, K.O. Jacobsen, I.J. Øien, R. Solheim, T. Aarvak, S. Weidensaul, D. Brinker, B. Sittler, O. Gilg, A. Aebischer, J. Lang, D. Holt & G. Gauthier. 2020. Fledging dispersal and survival in snowy owls. *5th meeting of the International Snowy Owl Working Group*, Pasvik, Norway.
- C.216. Beardsell, A., D. Gravel, D. Berteaux, G. Gauthier, V. Careau, J. Clermont, C.C. Juhasz, N. Lecomte, P. Royer-Boutin & J. Bêty. 2020. Assessment of functional responses using a mechanistic approach in a generalist predator of the arctic tundra. *Predator-Prey Interactions meeting*, Ventura CA.
- C.215. Gousy-Leblanc, M, G. Yannic, J.F. Therrien, G. Gauthier, S. Weidensaul, D. Brinker & N. Lecomte 2019. Population genetic structure of an arctic breeder, the snowy owl. *ArcticNet Scientific Meeting*, Halifax, NS.
- C.214. Lamarre J.-F., G. Gauthier, O. Love, E.T. Reed, O.W. Johnson, K. Overdujin, R. Lanctot, S.T. Saalfeld, J. Liebezeit, R. McGuire, M. Russell, L. McKinnon, L. Kolosky, P.A. Smith, S. Flemming, N. Lecomte, M.-A. Giroux, S. Bauer, T. Emmenegger & J. Bêty. 2019. Timing of breeding site availability drives migration schedule in a long distance trans-hemispheric migrant. *ArcticNet Scientific Meeting*, Halifax, NS.
- C.213. Gauthier, G. & J.-F. Therrien. 2019. Long-term ecological monitoring of the tundra ecosystem: role and conservation perspectives for birds of prey. *Raptor Research Foundation annual scientific conference*, Fort Collins, CO.
- C.212. Lamarre, J.-F., G. Gauthier, O. Love, E. Reed, O.W. Johnson, K. Overdujin, R. Lanctot, S.T. Saalfeld, J. Liebezeit, R. Bentzen, M. Russell, L. McKinnon, L. Kolosky, P. Smith, S. Flemming, N. Lecomte, M.-A. Giroux, S. Bauer & T.J. Emmenegger. 2019. Timing of breeding site availability drives migration schedule in a long distance trans-hemispheric migrant. *8th Western Hemisphere Shorebird Group meeting*, Panama City, Panama.
- C.211. Kalhor, D., A. Pusenkova, M. Poirier, G. Gauthier, T. Galstian & X. Maldague. 2019. Using near infrared for studying lemming subnival behavior in the arctic. *15th International Workshop on Advanced Infrared Technology and Applications*, Firenze, Italy.
- C.210. Fauteux, D., G. Gauthier, J. Bêty, D. Berteaux, M.J. Mazerolle, N. Coallier & M.-C. Cadieux. 2019. Evaluation of invasive and non-invasive methods to monitor lemming abundance in the Canadian Arctic. *Arctic Science Summit Week*, Arkhangelsk, Russia.
- C.209. Chagnon-Lafortune A, N. Casajus, R.I.G. Morrison, P.A. Smith, N. Lecomte, I. Tulp, M.C.Y. Leung, L. McKinnon, D. Berteaux & J. Bêty. 2018. Large-scale effect of temperature on arthropod availability for birds. *ArcticNet Scientific Meeting*, Ottawa, ON.

- C.208. Léandri-Breton, D.-J., J.-F. Lamarre, & J. Bêty. 2018. Daring crossing or cautious detour? Contrasting transatlantic migration strategies in a small migratory bird breeding in the Canadian Arctic and wintering in Africa. *ArcticNet Scientific Meeting*, Ottawa, ON.
- C.207. Fauteux, D., E. Schmidt, J.-F. Therrien, G. Gauthier & Y. Seyer. 2018. Enhancing terrestrial predators' diet assessments with rodent mandibles. *ArcticNet Scientific Meeting*, Ottawa, ON.
- C.206. Gérin-Lajoie J, G. Gauthier, J. Bêty & G. MacMillan. 2018. A visual tool in Participatory Action Research for consulting Inuit communities about their environmental concerns and research interests. *ArcticNet Scientific Meeting*, Ottawa, ON.
- C.205. Berner, L. P. Jantz, R. Massey, P. Burns, G. Gauthier, B. Forbes, M. Macias-Fauria, B. Gagliote, L. Andreu-Hayles, R. D'Arrigo & S. Goetz. 2018. Rapid warming leads to greening of the tundra biome. *American Geophysical Union annual meeting*, Washington DC, USA.
- C.204. Gauthier G. & J. Lefebvre. 2018. Projecting the population dynamic of greater snow geese into an uncertain future: the interplay between management actions and climate change. *Fourteenth North American Arctic Goose Conference and Workshop*, Lincoln, Nebraska, USA.
- C.203. LeTourneux, F., G. Gauthier, R. Pradel & J. Lefebvre. 2018. Impact of recent changes in hunting regulation on seasonal survival of male and female greater snow geese. *Fourteenth North American Arctic Goose Conference and Workshop*, Lincoln, Nebraska, USA.
- C.202. Berteaux, D. 2017. Effects of climate shifts on arctic biodiversity. *37th Annual Conference of the International Association for Impact Assessment*, Montreal, QC.
- C.201. Berteaux, D. 2017. Satellite tracking of arctic foxes on the Canadian Arctic sea ice: fine-scale genetic structure of the arctic fox population of Bylot Island (Nunavut, Canada). *Arctic Change 2017 conference*, Quebec, QC.
- C.200. Legagneux, P., M-A. Giroux, P. Archambault, F. Barraquand, D. Berteaux, J. Bêty, G. Gauthier, D. Ehrich, T. Hoyer, R. Ims, N. Lecomte, M-J. Naud, T. Roslin, N.M. Schmidt, P. Smith, S. Sokolov, N.G. Yoccoz & D. Gravel. 2017. ArcticWEB, a pan-Arctic network to monitor and model Arctic trophic interactions. *Arctic Change 2017 conference*, Quebec, QC.
- C.199. Juhasz, C.C., N. Lecomte, G. Gauthier. 2017. Direct and indirect effects of climate on a simplified trophic network in the Arctic tundra. *Arctic Change 2017 conference*, Quebec, QC.
- C.198. Fauteux, D., G. Gauthier, N. Coallier, J. Bêty & D. Berteaux, 2017. Evaluation of several methods to monitor lemming abundance: simple can also be good. *Arctic Change 2017 conference*, Quebec, QC.
- C.197. Chevalier, C., G. Gauthier & D. Berteaux. 2017. Weather variability has no direct impact on adult survival in a High Arctic carnivore *Arctic Change 2017 conference*, Quebec, QC.
- C.196. Lamarre, J.-F., J. Bêty, E. Reed, R. Lanctot, O. Love, G. Gauthier, O.W. Johnson, J. Liebezeit, R. Bentzen, M. Russell, L. McKinnon, L. Kolosky, P. Smith, S. Flemming, N. Lecomte, M.-A. Giroux, S. Bauer & T. Emmeneger. 2017. Year-round variation in migratory connectivity in American Golden-Plover (*Pluvialis dominica*). *Arctic Change 2017 conference*, Quebec, QC.
- C.195. Poirier, M., G. Gauthier, F. Dominé & M. Barrère. 2017. Physical properties of snow guide the movements of lemmings under the snowpack. *Arctic Change Conference*, Quebec, QC.
- C.194. Seyer, Yannick, G. Gauthier, J. Bêty & N. Lecomte. 2017. Connectivity between the Canadian Arctic and the west coast of Africa: the journey of the Long-tailed jaeger. *Arctic Change Conference*, Quebec, QC.
- C.193. Slevan-Tremblay, G., G. Gauthier & E. Lévesque. 2017. Impact of lemming grazing on Arctic willows under experimentally reduced predation. *Arctic Change Conference*, Quebec, QC.
- C.192. Juhasz, C.C., A. Lycke, V. Carreau, G. Gauthier, J.-F. Giroux & N. Lecomte. 2017. Picking the right cache: hoarding-site selection for egg predators in the Arctic. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.191. Therrien J.F., A. Beardsell, G. Gauthier, N. Lecomte & J Bêty. 2017. Reproductive and movement ecology of rough-legged hawks breeding in the high arctic. *Raptor Research Foundation Annual Conference*. Salt Lake City, Utah, USA.

- C.190. Couchoux, C., J. Clermont, S. Lai, F. Lapierre-Poulin, C. Chevallier & D. Berteaux. 2017. Implementing measures of individual behavioural variation in the Arctic ecosystem: can we assess personality in arctic foxes? *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.189. Darbon, C., S. Lai & D. Berteaux. 2017. Influence of the distribution of medium-sized prey species on the presence of red foxes in the south plain of Bylot Island, Nunavut, Canada. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.188. Thierry, A.-M., J. Bêty & D. Berteaux. 2017. Competition between Arctic and red foxes at the expanding front of the red fox in the Canadian Arctic. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.187. Lapierre-Poulin, F., D. Fortier & D. Berteaux. 2017. Developing a vulnerability index to climate change for arctic fox dens. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.186. Chevallier, C., G. Gauthier & D. Berteaux. 2017. Weather variability has no direct impact on adult survival in Arctic foxes. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.185. Devost, E, N. Casajus, S. Lai & D. Berteaux. 2017. FoxMask image analysis software, assisting ecologists in facing big data challenges. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.184. Berteaux, D. 2017. Satellite tracking of Arctic foxes on the Canadian Arctic sea ice. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.183. Lapierre-Poulin, F., D. Fortier & D. Berteaux. 2017. Are arctic fox reproductive dens vulnerable to climate change in the Canadian High Arctic? *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.182. Lai, S., A. Quiles, J. Lambourdière, D. Berteaux & A. Lalis. 2017. Fine-scale genetic structure of the arctic fox population of Bylot Island (Nunavut, Canada). *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.181. Chevallier, C., D. Berteaux & G. Gauthier. 2017. Are demographic parameters of adult Arctic foxes resource-dependent? *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.180. Fauteux, D., G. Gauthier, R. Boonstra, R. Palme & D. Berteaux. 2017. Top-down regulation of lemmings by Arctic foxes and other predators: observations and experiments on Bylot Island. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.179. Gauthier G., D. Fauteux, J. Bêty, D. Berteaux, M. Mazerolle & M.-C. Cadieux. 2017. Evaluation of invasive and non-invasive methods to monitor lemming abundance in the Canadian Arctic. *5th International Conference in Arctic Fox Biology*. Rimouski, QC.
- C.178. Therrien J.-F., G. Gauthier, A. Robillard, T. McDonald, N. Smith, S. Weidensaul, D. Brinker, J. Bêty & N. Lecomte. 2017. The irruptive nature of snowy owls: going full cycle. *World Owl Conference*. Évora, Portugal.
- C.177. Lefebvre, J., G. Gauthier, J.-F. Giroux, A. Reed, A. Béchet & E. Reed. 2017. Managing an overabundant population: the Greater Snow Goose in North America. *Dutch scientific goose meeting*. Leurwarden, Netherlands.
- C.176. Gauthier, G. A. Robillard, J.-F. Therrien & J. Bêty. 2017. What can we learn from isotopic analyses of snowy owl feathers? *4th meeting of the International Snowy Owl Working Group*, Milton, Massachusetts, USA.
- C.175. Robillard A., G. Gauthier, J.-F. Therrien & J. Bêty. 2017. Wintering strategies, habitat use and site fidelity of snowy owls in eastern North America. *4th meeting of the International Snowy Owl Working Group*. Milton, Massachusetts, USA.
- C.174. Juhasz, C.-C., N. Lecomte & G. Gauthier. 2016. How predator-prey interactions can mediate effects of climate on prey nesting success: the case of an Arctic nesting bird. *ArcticNet Scientific Meeting*, Winnipeg, MB.
- C.173. Resendiz, C. & G. Gauthier. 2016. Heterogeneous long-term effects of a changing environment on the reproductive success of greater snow geese. *ArcticNet Scientific Meeting*, Winnipeg, MB.
- C.172. Fauteux, D., G. Gauthier, D. Berteaux, R. Palme, C. Bosson & R. Boonstra. 2016. Lethal and non-lethal effects of predation on arctic lemmings. *Fifteenth International Conference on Rodent Biology*, Olomouc, Czech Republic.

- C.171. Giroux, M.-A., N. Lecomte, D. Gravel, D. Berteaux, G. Gauthier, P. Legagneux & J. Bêty. 2015. Bridging the gap between monitoring and modeling approaches to better understand arctic food webs under global pressures. *ArcticNet Scientific Meeting*, Vancouver, BC.
- C.170. Seyer, Y., G. Gauthier & J. Bêty. 2015. From the Canadian Arctic to the western coast of Africa: The trans-equatorial migration of the Long-tailed jaeger. *ArcticNet Scientific Meeting*, Vancouver, BC.
- C.169. Slevan-Tremblay, G., G. Gauthier & E. Lévesque 2015. Validation of a non-destructive method to estimate grazing impact of lemmings in the Arctic tundra. *ArcticNet Scientific Meeting*, Vancouver, BC.
- C.168. Resendiz, C. & G. Gauthier. 2015. To change or not to change? Variations in components of the Greater Snow Goose reproductive success over a 26-year period. *ArcticNet Scientific Meeting*, Vancouver, BC.
- C.167. Giroux, M.-A., N. Lecomte, D. Gravel, J. Bêty, G. Gauthier & D. Berteaux. 2015. Can animal migration explain the dominance of top-down forces in many Arctic food webs? Insights from empirical and theoretical approaches. *100th Ecological Society of America Annual Meeting*, Baltimore, MD.
- C.166. Fauteux, D., G. Gauthier & D. Berteaux. 2015. Socio-economic relationships between Inuit and lemmings and the scientific methods employed to monitor lemmings. *International workshop on small mammal population outbreaks and their consequences*, Frasné, France.
- C.165. Gauthier, G. 2015. Goose, plant and predator interactions in arctic systems: how will climate change things? *Thirteenth North American Arctic Goose Conference and Workshop*, Winnipeg, MB.
- C.164. Lamarre, J.-F., G. Gauthier, P. Legagneux, E.T. Reed & J. Bêty. 2015. Snow goose colony: a risky nesting area for shorebirds. *Thirteenth North American Arctic Goose Conference and Workshop*, Winnipeg, MB.
- C.163. Marmillot, V., G. Gauthier, M.-C. Cadieux & P. Legagneux. 2015. Plasticity in speed and timing of flight feather molt in the greater snow goose, a high-arctic-nesting species. *Thirteenth North American Arctic Goose Conference and Workshop*, Winnipeg, MB.
- C.162. Resendiz, C. & G. Gauthier. 2015. Temporal trends and spatial variation in components of reproductive success of Greater Snow Geese on Bylot Island. *Thirteenth North American Arctic Goose Conference and Workshop*, Winnipeg, MB.
- C.161. Gauthier, G. & D. Berteaux. 2014. Monitoring of terrestrial wildlife on Bylot Island in a global warming context: what did we learn after 20 years? *Arctic Change 2014 conference*, Ottawa, ON.
- C.160. Robillard, A., J.-F. Therrien, G. Gauthier & J. Bêty. 2014. Fall migration and winter habitat use of an Arctic top predator: the Snowy Owl. *Arctic Change 2014 Conference*, Ottawa, ON.
- C.159. Fauteux, D., G. Gauthier & D. Berteaux. 2014. Seasonal demography of a cyclic lemming population in the Canadian Arctic. *Arctic Change 2014 Conference*, Ottawa, ON.
- C.158. Royer-Boutin, P., D. Berteaux, G. Gauthier & J. Bêty. 2014. Effects of lemming cycles on reproductive success of arctic-nesting birds using different antipredator strategies. *Arctic Change 2014 conference*, Ottawa, ON.
- C.157. Beardsell, A., G. Gauthier, D. Fortier, J.-F. Therrien & J. Bêty. 2014. Factors affecting nest occupancy and reproductive success of rough-legged hawks: a trade-off between predation risk, microclimatic conditions and nest stability? *Arctic Change 2014 conference*, Ottawa, ON.
- C.156. Seyer, Y., G. Gauthier, J. Bêty & J.-F. Therrien 2014. Migratory strategies and reproduction of the Long-tailed Jaeger in the Canadian Arctic. *Arctic Change 2014 conference*, Ottawa, ON.
- C.155. Lapierre-Poulin, F., D. Fortier & D. Berteaux. 2014. Are arctic fox reproductive dens vulnerable to permafrost degradation? *Arctic Change 2014 conference*, Ottawa, ON.
- C.154. Morin, C. & D. Berteaux. 2014. Seasonal migratory prey and cyclic variation in small mammal abundance affect Arctic fox litter size. *Arctic Change 2014 conference*, Ottawa, ON.
- C.153. Chevallier, C., D. Berteaux & G. Gauthier. 2014. Estimating the age structure of an arctic carnivore population by comparing tooth wear and cementum line. *Arctic Change 2014 conference*, Ottawa, ON.

- C.152. Berteaux, D. & G. Gauthier. 2014. Long-term monitoring of the Bylot Island tundra ecosystem: what did we learn? *Arctic Biodiversity Congress*, Trondheim, Norway.
- C.151. Gauthier, G. 2014. Population dynamic and management of the greater snow goose population in North America. Symposium *The Changing World of the Goose*. Wageningen, Netherlands.
- C.150. Gauthier, G., J.-F. Therrien & J. Bêty. 2014. Movements and breeding dispersal of Snowy Owls in eastern North America: a specialized predator exploiting a pulsed resource. *Third meeting of the International Snowy Owl Working Group*, Salekhard, Russia.
- C.149. Robillard, A., J.-F. Therrien, G. Gauthier & J. Bêty. 2014. Winter ecology of Snowy Owls: post-reproductive movements and determinants of winter irruptions in North America. *Third meeting of the International Snowy Owl Working Group*, Salekhard, Russia.
- C.148. Gauthier, G. 2013. Lemming population ecology on Bylot Island: Interaction between snow and predation. *Lemming and Snow Workshop*, University of Tromsø, Tromsø, Norway.
- C.147. Beardsell A., G. Gauthier G., D. Fortier D. & J. Bêty. 2013. Breeding ecology of rough-legged hawks (*Buteo lagopus*) in the High Arctic: are nesting structures vulnerable to climate change? *Ninth ArcticNet Scientific Meeting*, Halifax, NS.
- C.146. Robillard, A., J.-F. Therrien, G. Gauthier & J. Bêty. 2013. Multi-scale influence of small mammal summer densities on snowy owl winter irruptions in North America. *Ninth ArcticNet Scientific Meeting*, Halifax, NS.
- C.145. Fauteux, D., G. Gauthier & D. Berteaux. 2013. Ten years of monitoring lemming demography in the Canadian High Arctic. *Ninth ArcticNet Scientific Meeting*, Halifax, NS.
- C.144. Lamarre, J.-F., J. Bêty & G. Gauthier. 2013. Predator-mediated interactions between shorebirds and colony-nesting snow geese on Bylot Island, Nunavut. *5th Western Hemisphere Shorebird Group conference*, Santa Marta, Colombia.
- C.143. Perkins, M., L. Ferguson, R.B. Lanctot, I.J. Stenhouse, D.C. Evers, N. Basu, J. Bêty, S. Brown, R. Gates, S. Kendall, J.-F. Lamarre, J. Liebezeit & B. Sandercock. 2013. Quantifying mercury exposure for multiple shorebird species across the North American Arctic using blood and feather samples. *34th Annual Meeting of the Society of Environmental Toxicology and Chemistry*, Nashville, TN.
- C.142. Lai, S., J. Bêty & D. Berteaux. 2013. Where do arctic foxes go in winter? A 6-year study using satellite telemetry on Bylot Island, Canada. *Fourth International Conference in Arctic Fox Biology*. Westfjords, Iceland.
- C.141. Rioux, M.-J., S. Lai, J. Bêty & D. Berteaux. 2013. Spatial winter dynamics in arctic fox pairs at Bylot Island. *Fourth International Conference in Arctic Fox Biology*, Westfjords, Iceland.
- C.140. Berteaux, D. 2013. Range margins of Arctic and Red fox in a rapidly changing Arctic, *8th Annual Meeting of the Canadian Society of Ecology and Evolution*, Kelowna, BC.
- C.139. Berteaux, D. 2013. État et tendances de la biodiversité arctique. *Chantier arctique français*, Paris, France.
- C.138. Legagneux, P., G. Gauthier, P.L.F. Fast, N. J. Harms, H. G. Gilchrist, C. Soos & J. Bêty. 2013. Empirical and experimental evidence of carry-over effects on waterfowl reproduction. *Canadian Society of Zoologists Annual Meeting*, Guelph, ON.
- C.137. Souchay, G., G. Gauthier & R. Pradel. 2013. A new approach to account for temporary emigration using a multi-event framework. *EURING analytical conference*, Athens, GA.
- C.136. Van Oudenhove, L., G. Gauthier, & J.D. Lebreton. 2013 Modelling climatic effects on the population dynamic of a long-distance, arctic-nesting migrant. *EURING analytical conference*, Athens, GA.
- C.135. Legagneux, P., C. Juillet, P.L.F. Fast, G. Gauthier & J. Bêty. 2013. Experimental evidence of carry-over effects on greater snow goose reproduction and its management implications. *6th North American Duck Symposium and Workshop*, Memphis, TN.
- C.134. Bêty, J. 2013. Understanding individual variation in reproductive strategies: the challenge of integrating physiology, optimization model and environmental stressors. *6th North American Duck Symposium and Workshop*, Memphis, TN.

- C.133. Lefebvre, J., M. Huang, J.-F. Giroux, M. Bélisle, J. Bêty & C. Dwyer. 2013. Satellite telemetry improves our understanding of habitat use patterns and population estimates of greater snow geese. *6th North American Duck Symposium and Workshop*, Memphis, TN.
- C.132. Bilodeau, F., S. Lai, G. Gauthier & D. Berteaux. 2012. Are tundra lemming populations controlled from the bottom-up or the top-down? *Eighth ArcticNet Scientific Meeting*, Vancouver, BC.
- C.131. Fauteux, D., G. Gauthier, D. Berteaux & R. Boonstra. 2012. Direct and indirect effects of predation on lemmings in the High Arctic. *Eighth ArcticNet Scientific Meeting*, Vancouver, BC.
- C.130. Doucet, C., G. Gauthier & J. Bêty. 2012. Synchrony between breeding phenology of an arctic-nesting insectivore and its food resources: investigating the effect of mismatch on juvenile growth rate. *Eighth ArcticNet Scientific Meeting*, Vancouver, BC.
- C.129. Gauthier, G. 2012. Long-term changes in the Bylot Island tundra food web: a 20-year case study in the Canadian High Arctic. *Conference Tundra Change – The ecological dimension*. Aarhus, Denmark.
- C.128. Fauchald, P., D. Ehrlich, J. Schmidt, K. Klokov, F. S. I. Chapin, D. Berteaux & V. Hausner. 2012. The importance, management and status of harvested animals in the Arctic tundra ecosystems. *4th International Conference EcoSummit*, Columbus, OH.
- C.127. Gauthier, G., D. Berteaux, P. Legagneux, D.G. Reid, C.J. Krebs & J. Bêty. 2012. The role of predators in controlling the tundra food web: New evidence from the ArcticWOLVES project. *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.126. Fast, P.L.F., M. Doiron, G. Gauthier, J.A. Schmutz, D.C. Douglas, J. Madsen, J.Y. Takekawa, J. Yee & J. Bêty. 2012. Linking animal migration, spring weather and timing of breeding in an arctic herbivore. *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.125. McKinnon, L., C.A. Corkery, E. Bolduc, C. Juillet, J. Bêty & E. Nol. 2012. Assessing the vulnerability of Arctic-nesting shorebirds to climate induced changes in food resource peaks. *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.124. Juillet, C., R. Choquet, G. Gauthier, R. Pradel & J. Lefebvre. 2012. Carry-over effects of spring hunt and climate on recruitment to the natal colony in a migratory species. *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.123. Lai, S., D. Berteaux and J. Bêty 2012. Movement tactics and habitat selection of overwintering arctic foxes in the Canadian high Arctic. *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.122. Lamarre, J.-F., J. Bêty & G. Gauthier. 2012. Shorebird predation risk in the high-Arctic, do geese have a role to play? *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.121. Berteaux, D., G. Gauthier, J. Bêty, A. Franke & G. Gilchrist. 2012. Effects of climate change on the canadian arctic wildlife. *International Polar Year Conference: From Knowledge to Action*. Montréal, QC.
- C.120. Therrien, J.-F., G. Gauthier & J. Bêty. 2011. Avian predators play a key role in population regulation and energy flux of the Arctic tundra food web. *Annual Meeting of the Raptor Research Foundation*, Duluth, MN.
- C.119. Bêty, J. 2011. Sensitive Arctic birds under the spotlights: global change and recent discoveries. *Society of Canadian Ornithologists Annual Meeting*, Moncton, NB.
- C.118. Legagneux, P., P. Fast, G. Gauthier & J. Bêty. 2011. Manipulating individual state during migration provides evidence for carry-over effects modulated by environmental conditions. *Society of Canadian Ornithologists Annual Meeting*, Moncton, NB.
- C.117. Bêty, J. 2011. Ecology and evolution of arctic migrants: fundamental questions and recent results. *Royal Swedish Academy of Sciences and Wenner-Gren Foundations*, Sweden.
- C.116. Gauthier, G. 2011. Lemmings: a keystone species of the tundra food web vulnerable to climate change. *6th Annual Meeting of the Canadian Society of Ecology and Evolution*, Banff, AB.
- C.115. Tarrow, A., D. Berteaux & J. Bêty. 2011. The marine side of a terrestrial mammal: trophic niche and diet specialization of arctic foxes. *Estación Biológica de Doñana – CSIC*, Sevilla, Spain.

- C.114. Gauthier, G. & M.-C. Cadieux. 2011. Goose-plant interactions on Bylot Island in the context of global warming. *Twelfth North American Arctic Goose Conference*, Portland, OR.
- C.113. Legagneux, P., P. Fast, G. Gauthier & J. Bêty. 2011. Migratory connectivity in Greater Snow Geese: carry-over effects of a manipulation of spring body condition. *Twelfth North American Arctic Goose Conference*, Portland, OR.
- C.112. Fast, P., C. Redjadj, G. Gauthier & J. Bêty. 2011. Using isotopes to assess the importance of stopover sites to fuel migration and reproduction in Snow Geese. *Twelfth North American Arctic Goose Conference*, Portland, OR.
- C.111. Doiron, M., G. Gauthier & E. Lévesque. 2011. Climate change and the ecological mismatch between Greater Snow Goose breeding and plant phenology. *Twelfth North American Arctic Goose Conference*, Portland, OR.
- C.110. Desnoyers, M. & G. Gauthier. 2011. Travelling in greater snow goose flocks: do you know with whom you're travelling? *Twelfth North American Arctic Goose Conference*, Portland, OR.
- C.109. Horrigan, E., R.L. Jefferies & G. Gauthier. 2011. Vegetation responses to simulated snow goose herbivory in two arctic ecosystems. *Twelfth North American Arctic Goose Conference*, Portland, OR.
- C.108. Gauthier, G. & D. Berteaux. 2010. Is the tundra food web controlled by top predators? New evidence from the ArcticWOLVES project. *Seventh ArcticNet Scientific Meeting*, Ottawa, ON.
- C.107. Bilodeau, F., G. Gauthier & D. Berteaux. 2010. Life under the snow: the effect of the snow cover on lemming population dynamics. *Seventh ArcticNet Scientific Meeting*, Ottawa, ON.
- C.106. Chalifour, E., J. Bêty, M. Bélisle, J. Lefebvre & J.-F. Giroux. 2010. Molt migration of Greater Snow Geese. *Seventh ArcticNet Scientific Meeting*, Ottawa, ON.
- C.105. Tarroux, A., D. Berteaux & J. Bêty. 2010. Surviving the arctic winter: insights into the foraging tactics of an arctic terrestrial predator. *Seventh ArcticNet Scientific Meeting*, Ottawa, ON.
- C.104. Fast, P. 2010. Studies of migratory connectivity and nest choice in Arctic waterfowl. *Max Planck Institute for Ornithology*, Seewiesen, Germany.
- C.103. Gauthier, G., J.-F. Therrien, J. Bêty, F. Doyle & D. Reid. 2010. Surprising migratory movements and site fidelity unraveled by satellite-tracking of snowy owls. *25th International Ornithological Conference*, Sao Paulo, Brazil.
- C.102. Legagneux, P., G. Gauthier, D. Berteaux, J. Bêty, M.-C. Cadieux, G. Szor, F. Bilodeau, E. Bolduc, L. McKinnon, A. Tarroux, J.-F. Therrien, M.-A. Valiquette, L. Morissette & C.J. Krebs. 2010. Modeling temporal trophic dynamics of a terrestrial arctic ecosystem. *IPY Oslo Conference*, Oslo, Norway.
- C.101. Doiron, M., G. Gauthier & E. Lévesque. 2010. Plant-herbivore interactions and climate change: the case of the Greater Snow Goose. *IPY Oslo Conference*, Oslo, Norway.
- C.100. Legagneux, P., P. Fast, G. Gauthier & J. Bêty 2010. Effect of spring condition manipulation on reproductive success in the greater snow geese *Chen caerulescens*. *5th annual meeting of the Canadian Society of Ecology and Evolution*, Quebec, QC.
- C.99. Therrien, J.-F., G. Gauthier & J. Bêty. 2010. The lemming buffet: is there anything left after owls and jaegers have eaten? *5th annual meeting of the Canadian Society of Ecology and Evolution*, Quebec, QC.
- C.98. Desnoyers, M. & G. Gauthier. 2010. Le voyage organisé, un aspect inconnu du comportement grégaire de la grande oie des neiges *Chen caerulescens*. *5th annual meeting of the Canadian Society of Ecology and Evolution*, Quebec, QC.
- C.97. Gauthier, G., D. Berteaux, J. Bêty, P. Legagneux, L. McKinnon, J.-F. Therrien, A. Tarroux, M.-C. Cadieux, C.J. Krebs, D. Reid, & D. Morris. 2010. The role of predators in structuring the Arctic terrestrial food web: preliminary results from the ArcticWOLVES project. *IPY Canada Early Results Workshop*, Ottawa, ON.
- C.96. Doiron, M., G. Gauthier, & E. Lévesque. 2010. Impacts of climate change on a High Arctic herbivore: The case of the Greater Snow Goose. *IPY Canada Early Results Workshop*, Ottawa, ON.

- C.95. Therrien, J.-F., G. Gauthier, J. Bêty D. Reid and F. Doyle. 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.
- C.94. Reid, D., C.J. Krebs, G. Gauthier, A. Kenney, S. Gilbert, E. Hofer, D. Duchesne, M. Leung & F. Bilodeau. 2010. Snow depth and small mammal winter habitat choice: a tundra fencing experiment. *IPY Canada Early Results Workshop*, Ottawa, ON.
- C.93. Lai, S., D. Berteaux & J. Bêty. 2009. From land to sea ice with the arctic fox, following the movements of a terrestrial mammal in the Canadian High Arctic. *Sixth ArcticNet Scientific Meeting*, Victoria, BC.
- C.92. Tarroux, A., D. Berteaux & J. Bêty. 2009. Nomades de l'Arctique: Capacité de déplacement à grande échelle chez le renard polaire. *Sixth ArcticNet Scientific Meeting*, Victoria, BC.
- C.91. Tarroux, A., D. Berteaux & J. Bêty. 2009. The marine side of a terrestrial mammal: trophic niche and diet specialization in arctic foxes. *Sixth ArcticNet Scientific Meeting*, Victoria, BC.
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- C.89. Fast, P., C. Redjadj, G. Gauthier & J. Bêty. 2009. Fuelling up before the flight: Assessing the importance of stopover sites in an Arctic migrant using stable isotopes. *Sixth ArcticNet Scientific Meeting*, Victoria, BC.
- C.88. Gauthier, G., C. Juillet, J. Bêty & M. Morrissette. 2009. Annual productivity in Greater Snow Geese: which fecundity parameter is the best predictor and why? *Meeting of the International Society of Ecological Modelling*, Quebec City, QC.
- C.87. Legagneux, P., G. Gauthier & C.J. Krebs. 2009. Spatial and temporal trophic dynamics of terrestrial arctic ecosystems. *ECOPATH conference*, Vancouver, BC.
- C.86. Gauthier, G. 2009. Impact of climate change on arctic terrestrial food webs: examples from the Bylot Island long term study. *Canadian Society of Ecology and Evolution Annual Meeting*, Halifax, NS.
- C.85. Gauthier, G. & D. Berteaux. 2008. Arctic Wildlife Observatories Linking Vulnerable EcoSystems (ArcticWOLVES): A study of the impact of climate change on tundra food webs. *Arctic Change Conference*, Quebec City, QC.
- C.84. Gauthier, G. & M.C. Cadieux. 2008. Impact of climate change on arctic terrestrial food webs: examples from the Bylot Island long term study. *Arctic Change Conference*, Quebec City, QC.
- C.83. Doiron, M., G. Gauthier & E. Lévesque. 2008. Plant-herbivore interactions and climate change: The Case of the Greater Snow Goose. *Arctic Change Conference*, Quebec City, QC.
- C.82. Therrien, J.-F., G. Gauthier & J. Bêty. 2008. Reproductive success and long-distance movements of Snowy Owls: is this top arctic predator vulnerable to climate change? *Arctic Change Conference*, Quebec City, QC.
- C.81. Valiquette, M.A. & G. Gauthier. 2008. Numerical and functional responses of a generalist avian predator, the glaucous gull, to variations in lemming abundance in the Arctic. *Arctic Change Conference*, Quebec City, QC.
- C.80. Juillet, C., M. Doiron, G. Gauthier & M.C. Cadieux. 2008. Importance of local and regional climatic effects on the reproduction of a migratory species, the Greater Snow Goose. *Arctic Change Conference*, Quebec City, QC.
- C.79. Côté, G., R. Pienitz, G. Gauthier, D. Muir & B. Wolfe. 2008. Impacts of present-day and past animal populations on the nutrient and contamination status of freshwater lakes on Bylot Island, Nunavut (Canada). *Arctic Change Conference*, Quebec City, QC.
- C.78. Pouliot, R., L. Rochefort, M. Marchand-Roy & G. Gauthier. 2008. Polygon fens and trophic interactions: 15 years of research on Bylot Island. 4th International Meeting on the Biology of Sphagnum, Juneau, Alaska.
- C.77. Gauthier, G. & D. Berteaux. 2008. ArcticWOLVES: a study of the tundra food web. *International IPY conference on the Dynamics of Lemmings and Arctic foxes in the Circumpolar Tundra*, Salekhard, Russie.
- C.76. Berteaux, D. & Gauthier, G. 2008. Dynamics of lemmings and arctic foxes on Bylot Island, Nunavut, Canada. *International IPY conference on the Dynamics of Lemmings and Arctic foxes in the Circumpolar Tundra*, Salekhard, Russie.

- C.75. Duchesne, D., G. Gauthier & D. Berteaux. 2007. Characterization of the winter environment of lemmings in relation to the snow cover in the Arctic. *Fourth ArcticNet Scientific Meeting*, Collingwood, ON.
- C.74. Doiron, M., G. Gauthier & E. Lévesque. 2007. Impacts of climate change on plant-herbivore interactions in the High Arctic. *Fourth ArcticNet Scientific Meeting*, Collingwood, ON.
- C.73. Juillet, C., G. Gauthier, R. Pradel & Rémi Choquet. 2007. Use of mixture of information models to evaluate the effect of special conservation measures on survival in a hunted species, the Greater Snow Goose. *EURING-2007 meeting*, Otago, New Zealand.
- C.72. Gauthier, G., K. Hobson & J. Bêty. 2006. Diet change inferred from stable-isotopes in spring-staging Greater Snow Geese. *XXIVth International Ornithological Congress*, Hamburg, Germany.
- C.71. Gauthier, G. 2006. Application of capture-recapture methods to demographic analyses of bird populations: case studies with an emphasis on multistate models. *Colloque Capture 2006*, Université Laval, Québec, QC.
- C.70. Dickey, M.-H. & G. Gauthier. 2005. Effect of climate variables on the phenology and reproductive success of Greater Snow Geese (*Chen caerulescens atlantica*). *Eleventh North American Arctic Goose Conference*, Reno, NV.
- C.69. Lecomte, N., G. Gauthier, L. Bernatchez & J.-F. Giroux. 2005. Population structure of a Greater Snow Goose colony. *Eleventh North American Arctic Goose Conference*, Reno, NV.
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- C.67. Mainguy, J., G. Gauthier, J.-F. Giroux & J. Bêty. 2005. Long distance brood movements in Greater Snow Geese: effects on goslings growth and survival. *Eleventh North American Arctic Goose Conference*, Reno, NV.
- C.66. Ouellet, N., J. Larochelle & G. Gauthier. 2005. Effect of locomotion on growth in Greater Snow Goose goslings (*Chen caerulescens atlantica*). *Eleventh North American Arctic Goose Conference*, Reno, NV.
- C.65. Lecomte, N., G. Gauthier & J.-F. Giroux. 2005. Habitat effects on nest predation risks: the case of the Greater Snow Goose. *Eleventh North American Arctic Goose Conference*, Reno, NV.
- C.64. Audet, B., G. Gauthier & E. Lévesque. 2005. Feeding ecology of Greater Snow Goose (*Chen caerulescens atlantica*) goslings in upland tundra on Bylot Island, Nunavut. *Eleventh North American Arctic Goose Conference*, Reno, Nevada.
- C.63. Bêty, J., J.-F. Giroux, & G. Gauthier. 2004 Individual variation in timing of migration: causes and reproductive consequences in greater snow geese. *122ndAmerican Ornithologist Union Meeting*, Québec, Canada.
- C.62. Calvert, A.M. & G. Gauthier. 2004. Exceptional conservation measures: how have they affected survival and hunting mortality in greater snow geese. *122ndAmerican Ornithologist Union Meeting*, Québec, Canada.
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- C.58. Giroux, J.-F., G. Gauthier, A. Béchet, M. Féret, J. Mainguy, J. Bêty & V. Lemoine. 2003. Controlling overabundant bird populations: the case of the greater snow goose. *Third International Wildlife Management Congress*, 1-5 December 2003, Christchurch, New Zealand.
- C.57. Gauthier, G. & J.D. Lebreton. 2003. Population models in Greater Snow Geese: a comparison of different approaches. *EURING-2003 meeting*, Radolfzell, Germany.

- C.56. Reed, E., G. Gauthier & J.-F. Giroux. 2003. Effects of spring conditions on breeding propensity of greater snow goose females. *EURING-2003 meeting*, Radolfzell, Germany.
- C.55. Calvert, A.M. & G. Gauthier. 2003. Applying band recovery models to an evaluation of the demographic impacts of exceptional conservation measures. *EURING-2003 meeting*, Radolfzell, Germany.
- C.54. Gauthier, G., J. Bêty, J.-F. Giroux & L. Rochefort. 2003. Trophic interactions in a High Arctic Snow Goose colony. *Annual Meeting of the Society for Integrative and Comparative Biology*, Toronto, ON.
- C.53. Fournier, F., G. Gauthier & J. Larochelle. 2003. The effect of food quality on developmental plasticity and digestive efficiency in Greater Snow Goose goslings. *Annual Meeting of the Society of integrative and comparative biology*, Toronto, ON.
- C.52. Gauthier, G. 2002. Are Greater Snow Geese overabundant? A review of population Dynamics and management actions on this population in North America. *7th Annual Meeting of the Goose Specialist Group of Wetlands International*, El Rocio, Spain.
- C.51. Gauthier, G., F. Fournier & J. Larochelle. 2002. The effect of environmental conditions on early growth in geese. *XXIIIrd International Ornithological Congress*, Beijing, China
- C.50. Gauthier, G., J.-F. Giroux & L. Rochefort. 2002. The impact of goose grazing on Arctic and temperate wetlands. *XXIIIrd International Ornithological Congress*, Beijing, China.
- C.49. Bêty, J., G. Gauthier, E. Korpimäki & J.-F. Giroux. 2001. Shared predators and indirect trophic interactions: lemming cycles and arctic-nesting geese. *119th American Ornithologist Union Meeting*, Seattle, WA.
- C.48. Bourguelat, G., G. Gauthier & R. Pradel. 2001. New analytical tools to study stopover length in birds: what can we learn from the greater snow goose example? *119th American Ornithologist Union Meeting*, Seattle, WA.
- C.47. Gauthier, G. 2001. The effects of management actions on populations: greater snow goose. *Tenth North American Arctic Goose Conference*, Québec, QC.
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- C.45. Gauthier, G., K. Hobson & J. Bêty. 2001. The role of nutrient reserves in egg formation in greater snow geese: a reply to Ankney (1995). *Tenth North American Arctic Goose Conference*, Québec, QC.
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- C.40. Renaud, M., G. Gauthier & J. Larochelle. 2001. Energetic cost of thermoregulation for greater snow goose goslings growing in a natural environment. *Tenth North American Arctic Goose Conference*, Québec, QC.
- C.39. Féré M., G. Gauthier, J.-F. Giroux & K. Hobson. 2001. Impact of spring conservation hunt on nutrient storage of greater snow geese staging in Québec. *Tenth North American Arctic Goose Conference*, Québec, QC.
- C.38. Bourguelat, G., G. Gauthier & R. Pradel. 2001. Estimation of the fall stopover length of the greater snow goose in the St. Lawrence estuary using capture-recapture methods. *Tenth North American Arctic Goose Conference*, Québec, QC.
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- C.36. Demers, F. J.-F. Giroux, G. Gauthier & J. Bêty. 2001. Effect of collar-attached transmitters on pair bond, breeding success and behavior of greater snow geese. *Tenth North American Arctic Goose Conference*, Québec, QC.
- C.35. Otis, P., J. Larochelle & G. Gauthier. 2001. Energy cost of locomotion in greater snow goose goslings. *Tenth North American Arctic Goose Conference*, Québec, QC.
- C.34. Duclos, I., E. Lévesque & L. Rochefort. 2001. Mesic habitats of the Greater Snow Goose (*Chen caerulescens atlantica*) on Bylot Island (Nunavut): characterization and feeding potential. *Tenth North American Arctic Goose Conference*, Québec, QC.
- C.33. Gauthier, G., R. Pradel, S. Menu & J.D. Lebreton. 2000. Modelling seasonal survival rate of greater snow geese in presence of trap-dependence. *EURING-2000 meeting*, Point Reyes, CA.
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- C.30. Lévesque, E., C. Pineau, L. Rochefort & G. Gauthier. 1999. Combined influence of grazing and warming in a high arctic wet meadow. Abstract in *Plant response to climate change*, R.D. Hollister (ed), Proceedings from the *9th International Tundra Experiment Meeting*, East Lansing, MI.
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- C.27. Demers, F., J.-F. Giroux & G. Gauthier. 1998. How faithful to their mate are radio-marked greater snow geese? *Ninth North American Arctic Goose Conference*, Victoria, BC.
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- C.23. Gauthier, G. 1998. The role of food and timing of nesting in greater snow goose reproduction. *Ninth North American Arctic Goose Conference*, Victoria, BC.
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Graduate student theses

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- T.86. LeTourneux, F. 2024. Impacts de la chasse sur les paramètres démographiques d'une espèce migratrice: le cas de la grande oie des neiges. PhD thesis, Département de biologie, Université Laval.

- T.85. Poirier, M. 2023. Impact des propriétés physiques de la neige sur les populations de lemmings en Arctique. PhD thesis, Département de biologie, Université Laval.
- T.84. Bolduc, D. 2023. Rôle de l'hermine dans les cycles de lemmings du Haut-Arctique. MSc thesis, Département de biologie, Université Laval.
- T.83. Corbeil-Robitaille, M.-Z. 2023. Refuges anti-prédation dans le paysage: processus de formation et sélection des îlots par les oiseaux nicheurs de l'île Bylot. MSc thesis, Département de biologie, Université du Québec à Rimouski.
- T.82. Lamarre, J.-F. 2023. Écologie de la reproduction et de la migration du pluvier bronzé (*Pluvialis dominica*) nichant en arctique. PhD thesis, Département de biologie, Université du Québec à Rimouski.
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- T.80. Clermont-Beaudoin, J. 2023. Effets des mouvements, des comportements alimentaires et de la témérité d'un prédateur territorial sur une communauté de proies. PhD thesis, Département de biologie, Université du Québec à Rimouski.
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- T.77. Bergeron, G. 2022. Approche simplifiée par états et transitions saisonniers pour modéliser un système prédateurs-proies complexe de l'Arctique. MSc thesis, Département de biologie, Université de Sherbrooke.
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- T.74. Seyer, Y. 2022. Mouvements annuels, reproduction et compétition alimentaire chez un prédateur aviaire de la toundra, le labbe à longue queue. PhD thesis, Département de biologie, Université Laval, Québec.
- T.73. Grenier-Potvin, A. 2021. Sélection fine de l'habitat chez le renard arctique à l'île Bylot. MSc thesis, Département de biologie, Université du Québec à Rimouski.
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