

## 2015-2016 Refereed Publications / Articles publiés avec comité de lecture

- Abraham, C., Steiner, N., Monahan, A., Michel, C., 2015, Effects of subgrid-scale snow thickness variability on radiative transfer in sea ice, *Journal of Geophysical Research - Oceans* 120 (8): 5597-5614, Published
- Albertsen, C.M., Whoriskey, K., Yurkowski, D., Nielsen, A., Mills-Flemming, J.M., 2015, Fast-fitting of non-Gaussian state-space models to animal movement data via Template Model Builder, *Ecology* 96 (10): 2598-2604, Published
- Alou-Font, E., Roy, S., Agustí, S., Gosselin, M., 2016, Cell viability, pigments and photosynthetic performance of Arctic phytoplankton in contrasting ice-covered and open water conditions during the spring-summer transition, *Marine Ecology Progress Series* 543: 89-106, Published
- Arkett, M., Braithwaite, L., Pestieau, P., Carrieres, T., Pogson, L., Fabi, C., Geldsetzer, T., 2015, Preparation by the Canadian Ice Service for the operational use of the RADARSAT Constellation Mission in their ice and oil spill monitoring programs, *Canadian Journal of Remote Sensing* 41 (5): 380-389, Published
- Asplin, M.G., Fissel, D.B., Papakyriakou, T.N., Barber, D.G., 2015, Synoptic climatology of the southern Beaufort Sea troposphere with comparisons to surface winds, *Atmosphere - Ocean* 53 (2): 264-281, Published
- Auger-Méthé, M., Derocher, A.E., Plank, M.J., Codling, E.A., Lewis, M.A., 2015, Differentiating the Levy walk from a composite correlated random walk, *Methods in Ecology and Evolution* 6 (10): 1179-1189, Published
- Auger-Méthé, M., Field, C., Moesgaard Albertsen, C., Derocher, A.E., Lewis, M.A., Jonsen, I.D., Mills-Flemming, J., 2015, State-space models' dirty little secrets: Even simple linear Gaussian models can have parameter and state estimation problems, *Scientific Reports* 6: 10, Published
- Auger-Méthé, M., Lewis, M.A., Derocher, A.E., 2016, Home ranges in moving habitats: Polar bears and sea ice, *Ecography* 39 (1): 26-35, Published
- Babb, D.G., Galley, R.J., Barber, D.G., Rysgaard, S., 2016, Physical processes contributing to an ice-free Beaufort Sea during September 2012, *Journal of Geophysical Research - Oceans* 121 (1): 267-283, Published
- Babin, M., Bélanger, S., Ellinsten, I., Forest, A., Le Fouest, V., Lacour, T., Ardyna, M., Slagstad, D., 2015, Estimation of primary production in the Arctic Ocean using ocean colour remote sensing and coupled physical-biological models: Strengths, limitations and how they compare, *Progress in Oceanography* 139: 197-220, Published
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- Baker, B., Yeager, B., 2015, Coordinated ocean stewardship in the Arctic: Needs, challenges and possible models for an Arctic Ocean coordinating agreement, *Transnational Environmental Law* 4 (2): 359-394, Published
- Baldo, S., Mennill, D.J., Guindre-Parker, S., Gilchrist, H.G., Love, O.P., 2015, The oxidative cost of acoustic signals: Examining steroid versus aerobic-activity hypotheses in a wild bird, *Ethology* 121 (11): 1081-1090, Published

- Barber, D.G., Hop, H., Mundy, C.J., Else, B., Dmitrenko, I.A., Tremblay, J.-É., Ehn, J.K., Assmy, P., Daase, M., Candlish, L.M., Rysgaard, S., 2015, Selected physical, biological and biogeochemical implications of a rapidly changing Arctic Marginal Ice Zone, *Progress in Oceanography* 139: 122-150, Published
- Beaulieu, F., Cuerrier, A., Filion, V., Saleem, A., Arnason, J.T., 2016, A gall mite, *Aceria rhodiolae* (Acari: Eriophyidae), altering the phytochemistry of a medicinal plant, *Rhodiola rosea* (Crassulaceae), in the Canadian Arctic, *Journal of Natural History* 50 (19-20): 1237-1263, Published
- Bechshøft, T.O., Derocher, A.E., Richardson, E., Lunn, N.J., St. Louis, V., 2016, Hair mercury concentrations in Western Hudson Bay polar bear family groups, *Environmental Science and Technology* 50 (10): 5313-5319, Accepted
- Bechshøft, T.O., Derocher, A.E., Richardson, E., Mislan, P., Lunn, N.J., Sonne, C., Dietz, R., Janz, D., St. Louis, V., 2015, Mercury and cortisol in Western Hudson Bay polar bear hair, *Ecotoxicology* 24 (6): 1315-1321, Published
- Beck, I., Ludwig, R., Bernier, M., Lévesque, E., Boike, J., 2015, Assessing permafrost degradation and land cover changes (1986-2009) using remote sensing data over Umiujaq, sub-Arctic Quebec, *Permafrost and Periglacial Processes* 26 (2): 129-141, Published
- Beckers, J.F., Renner, A.H.H., Spreen, G., Gerland, S., Haas, C., 2015, Sea ice surface roughness estimates from airborne laser scanner and laser altimeter observations in Fram Strait and north of Svalbard, *Annals of Glaciology* 56 (69): 235-244, Published
- Bendtsen, J., Mortensen, J., Lennert, K., Rysgaard, S., 2015, Heat sources for glacial ice melt in a west Greenland tidewater outlet glacier fjord: The role of subglacial freshwater discharge, *Geophysical Research Letters* 42 (10): 4089-4095, Published
- Bendtsen, J., Mortensen, J., Rysgaard, S., 2015, Modelling subglacial discharge and its influence on ocean heat transport in Arctic fjords, *Ocean Dynamics* 65 (11): 1535-1546, Published
- Bennet, M., Greaves, W., Riedlsperger, R., Botella, A., 2016, Articulating the Arctic: Contrasting state and Inuit maps of the Canadian North, *Polar Record*, Submitted
- Berrang-Ford, L., Pearce, T., Ford, J.D., 2015, Systematic review approaches for climate change adaptation research, *Regional Environmental Change* 15 (5): 755-769, Published
- Berteaux, D., Gallant, D., Sacks, B.N., Statham, M.J., 2015, Red foxes (*Vulpes vulpes*) at their expanding front in the Canadian Arctic have indigenous maternal ancestry, *Polar Biology* 38 (6): 913-917, Published
- Berteaux, D., Thierry, A.-M., Alisauskas, R., Angerbjörn, A., Buchel, E., Doronina, L., Ehrich, D., Eide, N.E., Erlandsson, R., Flagstad, Ø., Fuglei, E., Gilg, O., Goltsman, M., Henttonen, H., Ims, R.A., Killengreen, S.T., Kondratyev, A., Kruchenkova, E., Kruckenberg, H., Kulikova, O., Landa, A., Lang, J., Irina, M., Mikhnevich, J., Niemimaa, J., Norén, K., Ollila, T., Ovsyanikov, N., Pokrovskaya, L., Pokrovsky, I., Rodnikova, A., Roth, J.D., Sabard, B., Samelius, G., Schmidt, N.M., Sittler, B., Sokolov, A.A., Sokolova, N.A., Stickney, A., Unnsteinsdóttir, E.R., White, P.A., 2016, Harmonizing circumpolar monitoring of Arctic fox: Benefits, opportunities, challenges, and recommendations, *Polar Research*, Submitted
- Bjorkman, A.D., Elmendorf, S.C., Beamish, A.L., Vellend, M., Henry, G.H.R., 2015, Contrasting effects of warming and increased snowfall on Arctic tundra plant phenology over the past two decades, *Global Change Biology* 21 (12): 4651-4661, Published
- Bonnaventure, P.P., Lamoureux, S.F., Favaro, E.A., 2016, Over winter channel bed temperature regimes generated by contrasting snow accumulation in a High Arctic river, *Permafrost and Periglacial Processes*, Accepted

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- Braune, B.M., Gaston, A.J., Hobson, K.A., Gilchrist, H.G., Mallory, M.L., 2015, Changes in trophic position affect rates of contaminant decline at two seabird colonies in the Canadian Arctic, *Ecotoxicology and Environmental Safety* 115: 7-13, Published
- Bromaghin, J.F., McDonald, T.L., Stirling, I., Derocher, A.E., Richardson, E.S., Regehr, E.V., Douglas, D.C., Durner, G.M., Atwood, T., Amstrup, S.C., 2015, Polar bear population dynamics in the southern Beaufort Sea during a period of sea ice decline, *Ecological Applications* 25 (3): 634-651, Published
- Brown, K.A., Miller, L.A., Mundy, C.J., Papakyriakou, T., Francois, R., Gosselin, M., Carnat, G., Swystun, K., Tortell, P.D., 2015, Inorganic carbon system dynamics in landfast Arctic sea ice during the early-melt period, *Journal of Geophysical Research - Oceans* 120 (5): 3542--3566, Published
- Brown, T.A., Belt, S.T., Gosselin, M., Levasseur, M., Poulin, M., Mundy, C.J., 2016, Quantitative estimates of sinking sea ice particulate organic carbon based on biomarker IP25, *Marine Ecology Progress Series* 546: 17-29, Published
- Brown, T.M., Fisk, A.T., Wang, X., Ferguson, S.H., Young, B.G., Reimer, K.J., Muir, D.C.G., 2016, Mercury and cadmium in ringed seals in the Canadian Arctic: Influence of location and diet, *Science of the Total Environment* 545: 503--511, Published
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- Casajus, N., Perie, C., Logan, T., Lambert, M.C., de Blois, S., Berteaux, D., 2016, An objective approach to select climate scenarios when projecting species distribution under climate change, *PLoS ONE* 11 (3): 17, Published
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- Chénard, C., Chan, A.M., Vincent, W.F., Suttle, C.A., 2015, Polar freshwater cyanophage S-EIV1 represents a new widespread evolutionary lineage of phages, *The ISME Journal* 9 (9): 2046--2058, Published

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- Chevallier, C., Lai, S., Berteaux, D., 2016, Predation of arctic fox pups by common ravens, *Polar Biology*, Accepted
- Choy, E.S., Roth, J.D., Loseto, L.L., 2016, Lipid removal and acidification affect nitrogen and carbon stable isotope ratios of beluga whales and their potential prey species in the Beaufort Sea ecosystem, *Marine Biology*, Submitted
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- Cisneros-Montemayor, A.M., Cheung, W.W.E., Bodtker, K., They, L., Steiner, N., Bailey, M., Hoover, C., Sumalia, U.R., 2016, Towards an integrated database of Canadian ocean resources: Benefits, current states, and research gaps, *Canadian Journal of Fisheries and Aquatic Sciences*, Submitted
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