

2021-2022 Refereed Publications / Articles publiés avec comité de lecture

Ahmed, R., Prowse, T., Dibike, Y., Bonsal, B. 2020. Effects of climatic drivers and teleconnections on late 20th Century trends in spring freshet of four major Arctic-draining rivers. *Water*, v. 13, no. 2, Jan. 2021, 30 p., ill., maps. doi:10.3390/w13020179.

Aleksieva, A.A., Treberg, J.R., Diamond, A.W., Hatch, S.A., Elliott, K.H. 2020. Foot web pentosidine does not covary strongly with age in four species of wild seabirds. *Experimental gerontology*, v.132, article 110833, Apr. 2020, 7 p., ill. doi:10.1016/j.exger.2020.110833.

Amiriaux, R., Archambault, P., Moriceau, B., Lemire, M., Babin, M., Memery, L., Massé, G., Tremblay, J.-É. 2021. Efficiency of sympagic-benthic coupling revealed by analyses of n-3 fatty acids, IP25 and other highly branched isoprenoids in two filter-feeding Arctic benthic molluscs : *Mya truncata* and *Serripes groenlandicus*. *Organic geochemistry*, v.151, article 104160, Jan. 2021, 14 p., ill., maps. doi:10.1016/j.orggeochem.2020.104160.

Anderson, C.M., Gilchrist, H.G., Ronconi, R.A., Shlepr, K.R., Clark, D.E., Fifield, D.A., Robertson, G.J., Mallory, M.L. 2020. Both short and long distance migrants use energy-minimizing migration strategies in North American herring gulls. *Movement ecology*, v. 8, no. 26, Jun. 2020, 12 p., ill., maps. doi:10.1186/s40462-020-00207-9.

Andrews, E.J., Harper, S., Cashion, T., Palacios-Abrantes, J., Blythe, J., Daly, J., Eger, S., Hoover, C., Talloni-Alvarez, N., Teh, L., Bennett, N., Epstein, G., Knott, C., Newell, S.L., Whitney, C.K. 2020. Supporting early career researchers : insights from interdisciplinary marine scientists. *ICES journal of marine science*, v. 77, no. 2, Mar. 2020, p. 476–485, ill. doi:10.1093/icesjms/fsz247.

Ardyna, M., Mundy, C.J., Mills, M.M., Oziel, L., Grondin, P.-L., Lacour, L., Verin, G., Van Dijken, G., Ras, J., Alou-Font, E., Babin, M., Gosselin, M., Tremblay, J.-É., Raimbault, P., Assmy, P., Nicolaus, M., Claustre, H., Arrigo, K.R. 2020. Environmental drivers of under-ice phytoplankton bloom dynamics in the Arctic Ocean. *Elementa : science of the anthropocene*, v. 8, no. 30, 2020, 21 p., ill., maps. doi:10.1525/elementa.430.

Athey, S.N., Adams, J.K., Erdle, L.M., Jantunen, L.M., Helm, P.A., Finkelstein, S.A., Diamond, M.L. 2020. The widespread environmental footprint of indigo denim microfibers from blue jeans. *Environmental science & technology*, v. 7, no. 11, 2020, p. 840-847, ill., maps. doi:10.1021/acs.estlett.0c00498.

Atkinson, D.M., Hung, J.K.Y., Gregory, F.M., Scott, N.A., Treitz, P.M. 2020. High spatial resolution remote sensing models for landscape-scale CO₂ exchange in the Canadian Arctic. *Arctic, Antarctic, and alpine research*, v. 52, no. 1, 2020, p. 248-263, ill., maps. doi:10.1080/15230430.2020.1750805.

Barkley, A.N., Broell, F., Pettitt-Wade, H., Watanabe, Y.Y., Marcoux, M., Hussey, N.E. 2020. A framework to estimate the likelihood of species interactions and behavioural responses using animal-borne acoustic telemetry transceivers and accelerometers. *Journal of animal ecology*, v. 89, no. 1, Jan. 2020, p. 146-160, ill., maps. doi:10.1111/1365-2656.13156.

Barnard, C., Dawson, J., Desserud, H., Reedman, A., Ducharme, M.-A., Ropars, P., Levesque, C.,

Demers, C., Desmarais, N., Archambault, P. 2021. Highlights from ArcticNet's Arctic change 2020 conference. *Arctic science*, v. 7, no. 1, Feb. 2021, 2 p. doi:10.1139/as-2021-0002.

Baron, B., Riva, M., Fletcher, C., Lynch, M., Lyonnais, M.-C., Laouan Sidi, E.A. 2021. Conceptualisation and operationalisation of a holistic indicator of health for older Inuit : results of a sequential mixed-methods project. *Social indicators research*, v. ?, no. ?, Jan. 2021, 26 p. .ill. doi:10.1007/s11205-020-02592-5.

Baron, M., Fletcher, C., Riva, M. 2020. Aging, health and place from the perspective of elders in an Inuit community. *Journal of cross-cultural gerontology*, v. 35, May 2020, p. 133–153, map. doi:10.1007/s10823-020-09398-5.

Beaupré-Laperrière, A., Mucci, A., Thomas, H. 2020. The recent state and variability of the carbonate system of the Canadian Arctic Archipelago and adjacent basins in the context of ocean acidification. *Biogeosciences*, v. 17, no. 14, 2020, p.3923–3942, ill., map. doi:10.5194/bg-17-3923-2020.

Beel, C.R., Lamoureux, S.F., Orwin, J.F., Pope, M.A., Lafrenière, M.J., Scott, N.A. 2020. Differential impact of thermal and physical permafrost disturbances on High Arctic dissolved and particulate fluvial fluxes. *Scientific reports*, v. 10, no.11836, 2020, 13 p., ill., maps. doi:10.1038/s41598-020-68824-3.

Bégin, P.N., Rautio, M., Tanabe, Y., Uchida, M., Culley, A.I., Vincent, W.F. 2020. The littoral zone of polar lakes: inshore-offshore contrasts in an ice-covered High Arctic lake. *Arctic science*, v. 7, no. 1, Sept. 2020, p. 158-181, ill. doi:10.1139/AS-2020-0026.

Bégin, P.N., Tanabe, Y., Kumagai, M., Culley, A.I., Paquette, M., Sarrazin, D., Uchida, M., Vincent, W.F. 2021. Extreme warming and regime shift toward amplified variability in a far northern lake. *Limnology and oceanography*, v. 66, no. S1, Feb. 2021, p. S17-S29, ill. doi:10.1002/lno.11546.

Bello, A.P., Mailhot, A. 2020. Improving the representation of historical climate precipitation indices using optimal interpolation methods. *Atmosphere-ocean*, v. 58, no. 4, 2020, p. 243-257, ill., maps. doi:10.1080/07055900.2020.1800444.

Berner, L.T., Massey, R., Jantz, P., Forbes, B.C., Macias-Fauria, M., Myers-Smith, I., Kumpula, T., Gauthier, G., Andreu-Hayles, L., Gaglioti, B.V., Burns, P., Zetterberg, P., D'Arrigo, R., Goetz, S.J. 2020. Summer warming explains widespread but not uniform greening in the Arctic tundra biome. *Nature communications*, v. 11, no.4621, Dec. 2020, 12 p., ill., maps. doi:10.1038/s41467-020-18479-5.

Bonin, M., Dussault, C., Taillon, J., Lecomte, N., Côté, S.D. 2020. Combining stable isotopes, morphological, and molecular analyses to reconstruct the diet of free-ranging consumers. *Ecology and evolution*, v. 10, no. 13, Jul. 2020, p.6664-6676, ill., map. doi:10.1002/ece3.6397.

Bouchard, F., Fortier, D., Paquette, M., Boucher, V., Pienitz, R., Laurion, I. 2020. Thermokarst lake inception and development in syngenetic ice-wedge polygon terrain during a cooling climatic trend, Bylot Island (Nunavut), eastern Canadian Arctic. *The cryosphere*, v. 14, no. 8, 2020, p.2607–2627, ill., maps. doi:10.5194/tc-14-2607-2020.
Boulanger-Lapointe, N., Henry, G.H.R., Lévesque, E., Cuerrier, A., Desrosiers, S., Gérin-Lajoie, J., Hermanutz, L., Collier, L.S. 2020. Climate and environmental drivers of

berry productivity from the forest-tundra ecotone to the high Arctic in Canada. *Arctic science*, v. 6, no. 4, Dec. 2020, p. 529-544, ill., map. doi:10.1139/as-2019-0018.

Brisson-Curadeau, É., Elliott, K.H., Côté, P. 2020. Factors influencing fall departure phenology in migratory birds that bred in northeastern North America. *The auk*, v.137, no. 1, 2020, p. 1-14, ill., maps. doi:10.1093/auk/ukz064.

Brooks, H., Doré, G., Locat, A. 2021. Soil bridging effects within permafrost-supported embankment infrastructure. *Journal of cold regions engineering*, v. 35, no. 1, Mar. 2021, 9 p., ill. doi:10.1061/(ASCE)CR.1943-5495.0000232.

Buchwal, A., Sullivan, P.F., Macias-Fauria, M., Post, E., Myers-Smith, I.H., Stroeve, J.C., Blok, D., Tape, K.D., Forbes, B.C., Ropars, P., Lévesque, E., Elberling, B., Angers-Blondin, S., Boyle, J.S., Boudreau, S., Boulanger-Lapointe, N., Gamm, C., Hallinger, M., Rachlewicz, G., Young, A., Zetterberg, P., Welker, J.M. 2020. Divergence of Arctic shrub growth associated with sea ice decline. *Proceedings of the National Academy of Sciences of the United States of America*, v.117, no. 52, 2020, p.33334–33344, ill., map. doi:10.1073/pnas.2013311117.

Buhler, K.J., Maggi, R.G., Gailius, J., Galloway, T.D., Chilton, N.B., Alisauskas, R.T., Samelius, G., Bouchard, É., Jenkins, E.J. 2020. Hopping species and borders : detection of *Bartonella* spp. in avian nest fleas and arctic foxes from Nunavut, Canada. *Parasites & vectors*, v. 13, article 469, 2020, 8 p., ill. doi:10.1186/s13071-020-04344-3.

Burgers, T.M., Tremblay, J.-É., Else, B.G.T., Papakyriakou, T.N. 2020. Estimates of net community production from multiple approaches surrounding the spring ice-edge bloom in Baffin Bay. *Elementa : science of the anthropocene*, v. 8, no. 1, 2020, 20 p., ill., maps. doi:10.1525/elementa.013.

Burot, C., Amiraux, R., Bonin, P., Guasco, S., Babin, M., Joux, F., Marie, D., Vilgrain, L., Heipieper, H.J., Rontani, J.-F. 2021. Viability and stress state of bacteria associated with primary production or zooplankton-derived suspended particulate matter in summer along a transect in Baffin Bay (Arctic Ocean). *Science of the total environment*, v.770, article 145252, May 2021, 13 p., ill., maps. doi:10.1016/j.scitotenv.2021.145252.

Canuti, M., McDonald, E., Graham, S.M., Rodrigues, B., Bouchard, É., Neville, R., Pitcher, M., Whitney, H.G., Marshall, H.D., Lang, A.S. 2020. Multi-host dispersal of known and novel carnivore and parvoviruses. *Virus evolution*, v. 6, no. 2, article veaa072, 2020, 11 p., ill. doi:10.1093/ve/veaa072.

Carpino, O., Haynes, K., Connon, R., Craig, J., Devoie, É., Quinton, W. 2020. The trajectory of landcover change in peatland complexes with discontinuous permafrost, northwestern Canada. *Hydrology and earth system sciences*, v. ?, no. ?, 2020, 40 p., ill., maps. doi:10.5194/hess-2020-411.

Chevallier, C., Gauthier, G., Lai, S., Berteaux, D. 2020. Pulsed food resources affect reproduction but not adult apparent survival in arctic foxes. *Oecologia*, v.193, Jun. 2020, p. 557–569, ill. doi:10.1007/s00442-020-04696-8.

Chisholm, C., Becker, M.S., Pollard, W.H. 2020. The importance of incorporating landscape change for predictions of climate-induced plant phenological shifts. *Frontiers in plant science*, v. 11, no.759, Jun.

2020, 13 p., ill. doi:10.3389/fpls.2020.00759.

Choy, E.S., Giraldo, C., Rosenberg, B., Roth, J.D., Ehrman, A.D., Majewski, A., Swanson, H., Power, M., Reist, J.D., Loseto, L.L. 2020. Variation in the diet of beluga whales in response to changes in prey availability : insights on changes in the Beaufort Sea ecosystem. *Marine ecology. Progress series* (Halstenbek), v.647, Aug. 2020, p. 195-210, ill., maps. doi:10.3354/meps13413.

Christensen, T., Barry, T., Taylor, J.J., Doyle, M., Aronsson, M., Braa, J., Burns, C., Coon, C., Coulson, S., Cuyler, C., Falk, K., Heiðmarsson, S., Soloviev, M., Kulmala, P., Lawler, J., MacNearney, D., Ravolainen, V., Smith, P.A., Schmidt, N.M. 2020. Developing a circumpolar programme for the monitoring of Arctic terrestrial biodiversity. *Ambio*, v. 49, Jan. 2020, p. 655–665, ill., map. doi:10.1007/s13280-019-01311-w.

Church, I.W. 2020. Multibeam sonar ray-tracing uncertainty evaluation from a hydrodynamic model in a highly stratified estuary. *Marine geodesy*, v. 43, no. 4, 2020, p. 359-375, ill., maps. doi:10.1080/01490419.2020.1717695.

Clyde, N., Hargan, K.E., Forbes, M.R., Iverson, S.A., Blais, J.M., Smol, J.P., Bump, J.K., Gilchrist, H.G. 2021. Seaduck engineers in the Arctic Archipelago : nesting eiders deliver marine nutrients and transform the chemistry of island soils, plants, and ponds. *Oecologia*, v. ?, no. ?, 2021, [12] p., ill., maps. doi:10.1007/s00442-021-04889-9.

Colby, G.A., Ruuskanen, M.O., St. Pierre, K.A., St. Louis, V.L., Poulain, A.J., Aris-Brosou, S. 2020. Warming climate is reducing the diversity of dominant microbes in the largest High Arctic lake. *Frontiers in microbiology*, v. 11, article 561194, Oct. 2020, 12 p. ill., maps. doi:10.3389/fmicb.2020.561194.

Colombo, M., Jackson, S.L., Cullen, J.T., Orians, K.J. 2020. Dissolved iron and manganese in the Canadian Arctic Ocean : on the biogeochemical processes controlling their distributions. *Geochimica et cosmochimica acta*, v.277, May 2020, p. 150-174, ill., maps. doi:10.1016/j.gca.2020.03.012.

Copland, L., Lacelle, D., Fisher, D., Delaney, F., Thomson, L., Main, B., Burgess, D. 2020. Warmer–wetter climate drives shift in DeltaD–Delta18O composition of precipitation across the Queen Elizabeth Islands, Arctic Canada. *Arctic science*, v. 7, no. 1, Sept. 2020, p. 136-157, ill., maps. doi:10.1139/as-2020-0009.

Cramm, M.A., de Moura Neves, B., Manning, C.C.M., Oldenburg, T.B.P., Archambault, P., Chakraborty, A., Cyr-Parent, A., Edinger, E.N., Jaggi, A., Mort, A., Tortell, P., Hubert, C.R.J. 2021. Characterization of marine microbial communities around an Arctic seabed hydrocarbon seep at Scott Inlet, Baffin Bay. *Science of the total environment*, v.762, article 143961, Mar. 2021, 15 p., ill., maps. doi:10.1016/j.scitotenv.2020.143961.

Crawford, A.J., Mueller, D., Crocker, G., Mingo, L., Desjardins, L., Dumont, D., Babin, M. 2020. Ice island thinning : rates and model calibration with in situ observations from Baffin Bay, Nunavut. *The cryosphere*, v. 14, no. 3, 2020, p.1067–1081, ill., maps. doi:10.5194/tc-14-1067-2020.

Curley, A.N., Kochtitzky, W.H., Edwards, B.R., Copland, L. 2021. Glacier changes over the past 144 years at Alexandra Fiord, Ellesmere Island, Canada. *Journal of glaciology*, v. ?, no. ?, Feb. 2021, p. 1-

12, ill., map. doi:10.1017/jog.2021.4.

Davis, E., Trant, A., Hermanutz, L., Way, R.G., Lewkowicz, A.G., Collier, L.S., Cuerrier, A., Whitaker, D. 2020. Plant–environment interactions in the low Arctic Torngat Mountains of Labrador. *Ecosystems*, v. ?, 2020, 21 p. ill., maps. doi:10.1007/s10021-020-00577-6.

Dawson, J., Carter, N.A., van Luijk, N., Weber, M., Cook, A. 2020. Arctic corridors and northern voices project : methods for community-based participatory mapping for low impact shipping corridors in Arctic Canada. *Nature communications*, v. 7, no.101064, Sept. 2020, 15 p., ill., maps. doi:10.1016/j.natcom.2020.101064.

de Moura Neves, B., Wareham Hayes, V., Herder, E., Hedges, K., Grant, C., Archambault, P. 2020. Cold-water soft corals (Cnidaria: Nephtheidae) as habitat for juvenile basket stars (Echinodermata : Gorgonocephalidae). *Frontiers in plant science*, v. 7, article 547896, Oct. 2020, 17 p., ill., maps. doi:10.3389/fpls.2020.547896.

de Vernal, A., Radi, T., Zaragosi, S., Van Nieuwenhove, N., Rochon, A., Allan, E., De Schepper, S., Eynaud, F., Head, M.J., Limoges, A., Londeix, L., Marret, F., Matthiessen, J., Pospelova, V., Penaud, A., Richerol, T., Price, A. 2020. Distribution of common modern dinoflagellate cyst taxa in surface sediments of the Northern Hemisphere in relation to environmental parameters: The new n=1968 database. *Marine micropaleontology*, v.159, article 101796, Aug. 2020, 23 p., ill., maps. doi:10.1016/j.marmicro.2019.101796.

Desjardins, É., Lai, S., Payette, S., Dubé, M., Sokoloff, P.C., St-Louis, A., Poulin, M.-P., Legros, J., Sirois, L., Vézina, F., Tam, A., Berteaux, D. 2021. Survey of the vascular plants of Alert (Ellesmere Island, Canada), a polar desert at the northern tip of the Americas. *Check list : journal of biodiversity data*, v. 17, no. 1, Feb 2021, p. 181-225, ill., maps. doi:10.15560/17.1.181.

Devoie, É.G., Connon, R.F., Craig, J.R., Quinton, W.L. 2020. Subsurface flow measurements using passive flux meters in variably-saturated cold-regions landscapes. *Hydrological processes*, v. 34, no. 23, Nov. 2020, p.4541-4546, ill., map. doi:10.1002/hyp.13900.

Dey, C.J., Semeniuk, C.A.D., Iverson, S.A., Gilchrist, H.G. 2020. Changes in the distribution of nesting Arctic seabirds are not strongly related to variation in polar bear presence. *Arctic science*, v. 6, no. 2, Jun. 2020, p. 114-123, ill., maps. doi:10.1139/as-2019-0017.

Dezutter, T., Lalande, C., Darnis, G., Fortier, L. 2021. Seasonal and interannual variability of the Queen Maud Gulf ecosystem derived from sediment trap measurements. *Limnology and oceanography*, v. 66, no. S1, Feb. 2021, p.S411-S426, ill. doi:10.1002/lno.11628.

Dinn, C., Zhang, X., Edinger, E., Leys, S.P. 2020. Sponge communities in the eastern Canadian Arctic : species richness, diversity and density determined using targeted benthic sampling and underwater video analysis. *Polar biology*, v. 43, 2020, p.1287-1305, ill., maps. doi:10.1007/s00300-020-02709-z.

Do, H.X., Zhao, F., Westra, S., Leonard, M., Gudmundsson, L., Boulange, J.E.S., Chang, J., Ciais, P., Gerten, D., Gosling, S.N., Müller Schmied, H., Stacke, T., Telteu, C.-E., Wada, Y. 2020. Historical and future changes in global flood magnitude – evidence from a model–observation investigation. *Hydrology*

and earth system sciences, v. 24, no. 3, 2020, p.1543-1564, ill., maps. doi:10.5194/hess-24-1543-2020.

Eastwood, R.A., Macdonald, R.W., Ehn, J.K., Heath, J., Arragutainaq, L., Myers, P.G., Barber, D.G., Kuzyk, Z.A. 2020. Role of river runoff and sea ice brine rejection in controlling stratification throughout winter in Southeast Hudson Bay. *Estuaries and coasts*, v. 43, 2020, p. 756–786, ill., maps. doi:10.1007/s12237-020-00698-0.

Ehrich, D., Schmidt, N.M., Gauthier, G., Alisauskas, R., Angerbjörn, A., Clark, K., Ecke, F., Eide, N.E., Framstad, E., Frandsen, J., Franke, A., Gilg, O., Giroux, M.-A., Henttonen, H., Hörnfeldt, B., Ims, R.A., Kataev, G.D., Kharitonov, S.P., Killengreen, S.T., Krebs, C.J., Lanctot, R.B., Lecomte, N., Menyushina, I.E., Morris, D.W., Morrisson, G., Oksanen, L., Oksanen, T., Olofsson, J., Pokrovsky, I.G., Popov, I.Y., Reid, D., Roth, J.D., Saalfeld, S.T., Samelius, G., Sittler, B., Sleptsov, S.M., Smith, P.A., Sokolov, A.A., Sokolova, N.A., Soloviev, M.Y., Solovyeva, D.V. 2020. Documenting lemming population change in the Arctic : can we detect trends?. *Ambio*, v. 49, 2020, p. 786–800, ill., map. doi:10.1007/s13280-019-01198-7.

Ferguson, S., Yurkowski, D., Hudson, J., Edkins, T., Willing, C., Watt, C. 2020. Larger body size leads to greater female beluga fitness at the southern periphery of their range. *Authorea*, v. ?, no. ?, 2020, 15 p., ill., map. doi:10.22541/au.160682236.63502812/v1.

Ferguson, S.H., Yurkowski, D.J., Young, B.G., Fisk, A.T., Muir, D.C.G., Zhu, X., Thiemann, G.W. 2020. Comparing temporal patterns in body condition of ringed seals living within their core geographic range with those living at the edge . *Ecography*, v. 43, no. 10, Oct. 2020, p.1521-1535, ill. doi:10.1111/ecog.04988.

Finore, I., Vigneron, A., Vincent, W.F., Leone, L., Di Donato, P., Moriello, A.S., Nicolaus, B., Poli, A. 2020. Novel psychrophiles and exopolymers from permafrost thaw lake sediments. *Microorganisms*, v. 8, no. 9, Aug. 2020, 15 p., ill. doi:10.3390/microorganisms8091282.

Folhas, D., Duarte, A.C., Pilote, M., Vincent, W.F., Freitas, P., Vieira, G., Silva, A.M.S., Duarte, R.M.B.O., Canário, J. 2020. Structural characterization of dissolved organic matter in permafrost peatland lakes. *Water*, v. 12, no. 11, Oct. 2020, 18 p., ill., maps. doi:10.3390/w12113059.

Fortune, S.M.E., Ferguson, S.H., Trites, A.W., LeBlanc, B., LeMay, V., Hudson, J.M., Baumgartner, M.F. 2020. Seasonal diving and foraging behaviour of Eastern Canada-West Greenland bowhead whales. *Marine ecology. Progress series (Halstenbek)*, v.643, Jun. 2020, p. 197-217, ill., maps. doi:10.3354/meps13356.

Fortune, S.M.E., Young, B.G., Ferguson, S.H. 2020. Age- and sex-specific movement, behaviour and habitat-use patterns of bowhead whales (*Balaena mysticetus*) in the Eastern Canadian Arctic. *Polar biology*, v. 43, 2020, p. 1725-1744, ill., maps. doi:10.1007/s00300-020-02739-7.

Fortune, S.M.E., Ferguson, S.H., Trites, A.W., Hudson, J.M., Baumgartner, M.F. 2020. Bowhead whales use two foraging strategies in response to fine-scale differences in zooplankton vertical distribution. *Nature scientific reports*, v. 10, article 20249, Nov. 2020, 18 p., ill., maps. doi:10.1038/s41598-020-76071-9.

Fouché, J., Christiansen, C.T., Lafrenière, M.J., Grogan, P., Lamoureux, S.F. 2020. Canadian permafrost stores large pools of ammonium and optically distinct dissolved organic matter. *Nature communications*, v. 11, no.4500, Sept. 2020, 11 p., ill., maps. doi:10.1038/s41467-020-18331-w.

Fox, S., Qillaq, E., Angutikjuak, I., Tigullaraq, D.J., Kautuk, R., Huntington, H., Liston, G.E., Elder, K. 2020. Connecting understandings of weather and climate : steps towards co-production of knowledge and collaborative environmental management in Inuit Nunangat. *Arctic science*, v. 6, no. 3, Sept. 2020, p. 267-278, ill., maps. doi:10.1139/as-2019-0010.

Frederick, C., Girard, C., Wong, G., Lemire, M., Langwieder, A., Martin, M.-C., Legagneux, P. 2021. Communicating with Northerners on the absence of SARS-CoV-2 in migratory Snow Geese. *Écoscience*, v. ?, no. ?, 2021, 8 p., ill., map. doi:10.1080/11956860.2021.1885803.

Fung, R., Manore, A.J.W., Harper, S.L., Sargeant, J.M., Shirley, J., Caughey, A., Shapiro, K. 2021. Clams and potential foodborne *Toxoplasma gondii* in Nunavut, Canada. *Zoonoses and public health*, v. 68, no. 3, May 2021, p. 277-283, ill., maps. doi:10.1111/zph.12822.

Gagnon, M., Yannic, G., Boyer, F., Côté, S.D. 2020. Adult survival in migratory caribou is negatively associated with MHC functional diversity. *Heredity*, v.125, no. ?, 2020, p. 290-303, ill., maps. doi:10.1038/s41437-020-0347-3.

Gagnon, S., Allard, M. 2020. Geomorphological controls over carbon distribution in permafrost soils : the case of the Narsajuaq river valley, Nunavik (Canada). *Arctic science*, v. 6, no. 4, Jul. 2020, p. 509-528, ill., maps. doi:10.1139/AS-2019-0026.

Ghienne, J.-F., Normandeau, A., Dietrich, P., Bouysson, M., Lajeunesse, P., Schuster, M. 2020. The depositional signature of cyclic steps : A late quaternary analogue compared to modern active delta slopes. *Sedimentology*, v. ?, no. ?, 2020, 37 p., ill., maps. doi:10.1111/sed.12806.

Girard, C., Langlois, V., Vigneron, A., Vincent, W.F., Culley, A.I. 2020. Seasonal regime shift in the viral communities of a permafrost thaw lake. *Viruses*, v. 12, no. 11, article, 1204, 2020, 14 p., ill. doi:10.3390/v12111204.

Giraudeau, J., Georgiadis, E., Caron, M., Martinez, P., St-Onge, G., Billy, I., Lebleu, P., Ther, O., Massé, G. 2020. A high-resolution elemental record of post-glacial lithic sedimentation in Upernavik Trough, western Greenland: History of ice-sheet dynamics and ocean circulation changes over the last 9100 years. *Global and planetary change*, v.191 Aug. 2020, 14 p., ill., maps. doi:10.1016/j.gloplacha.2020.103217.

Goldsmith, J., McKindsey, C.W., Schlegel, R.W., Stewart, D.B., Archambault, P., Howland, K.L. 2020. What and where? Predicting invasion hotspots in the Arctic marine realm. *Global change biology*, v. 26, no. 9, Sept. 2020, p.4752-4771, ill., map. doi:10.1111/gcb.15159.

Góngora, E., Elliott, K.H., Whyte, L. 2021. Gut microbiome is affected by inter-sexual and inter-seasonal variation in diet for thick-billed murre (*Uria lomvia*). *Nature scientific reports*, v. 11, article 1200, 2021, 12 p., ill. doi:10.1038/s41598-020-80557-x.

- Gregory, B.R.B., Patterson, R.T., Galloway, J.M., Reinhardt, E.G. 2021. The impact of cyclical, multi-decadal to centennial climate variability on arsenic sequestration in lacustrine sediments. *Palaeogeography, palaeoclimatology, palaeoecology*, v.565, article 110189, Mar. 2021, 14 p., ill., maps. doi:10.1016/j.palaeo.2020.110189.
- Grenier, P., Elliott, J.E., Drouillard, K.G., Guigueno, M.F., Muir, D., Shaw, D.P., Wayland, M., Elliott, K.H. 2020. Long-range transport of legacy organic pollutants affects alpine fish eaten by ospreys in western Canada. *Science of the total environment*, v.712, article 135889, Apr. 2020, 12 p., ill. doi:10.1016/j.scitotenv.2019.135889.
- Grigor, J.J., Schmid, M.S., Caouette, M., St-Onge, V., Brown, T.A., Barthélémy, R.-M. 2020. Non-carnivorous feeding in Arctic chaetognaths. *Progress in oceanography*, v.186, Jul. 2020, 20 p., ill., map. doi:10.1016/j.pocean.2020.102388.
- Halliday, W.D., Scharffenberg, K., Whalen, D., MacPhee, S.A., Loseto, L.L., Insley, S.J. 2020. The summer soundscape of a shallow-water estuary used by beluga whales in the western Canadian Arctic. *Arctic science*, v. 6, no. 4, Mar. 2020, p. 361-383, ill., maps. doi:10.1139/as-2019-0022.
- Hamberg, L.J., Fraser, R.A., Robinson, D.T., Trant, A.J., Murphy, S.D. 2020. Surface temperature as an indicator of plant species diversity and restoration in oak woodland. *Ecological indicators*, v.113, article 106249, Jun. 2020, 12 p., ill., maps. doi:10.1016/j.ecolind.2020.106249.
- Hansen, C.B., Larsen, C.V.L., Bjerregaard, P., Riva, M. 2020. The effect of household crowding and composition on health in an Inuit cohort in Greenland. *Scandinavian journal of public health*, v. ?, no. ?, Jun. 2020, 10 p., ill. doi:10.1177/1403494820929496.
- Hansen, K.E., Giraudeau, J., Wacker, L., Pearce, C., Seidenkrantz, M.-S. 2020. Reconstruction of Holocene oceanographic conditions in Eastern Baffin Bay. *Climate of the past*, v. 16, no. 3, 22 Jun. 2020, p.1075–1095, ill., maps. <https://cp.copernicus.org/articles/16/1075/2020/cp-16-1075-2020.html>. doi:10.5194/cp-16-1075-2020.
- Harper, S.L., Wright, C., Masina, S., Coggins, S. 2020. Climate change, water, and human health research in the Arctic. *Water security*, v. 10, article 100062, Aug. 2020, 9 p., ill. doi:10.1016/j.wasec.2020.100062.
- Harris, L.N., Yurkowski, D., Gilbert, M.J.H., Else, B.G.T., Duke, P.J., Ahmed, M.M.M., Tallman, R.F., Fisk, A.T., Moore, J.-S. 2020. Depth and temperature preference of anadromous Arctic char *Salvelinus alpinus* in the Kitikmeot Sea, a shallow and low-salinity area of the Canadian Arctic. *Marine ecology. Progress series (Halstenbek)*, v.634, Jan. 2020, p. 175-197, ill., maps. doi:10.3354/meps13195.
- Hayashida, H., Carnat, G., Galí, M., Monahan, A.H., Mortenson, E., Sou, T., Steiner, N.S. 2020. Spatiotemporal variability in modeled bottom ice and sea surface dimethylsulfide concentrations and fluxes in the Arctic during 1979–2015. *Global biogeochemical cycles*, v. 34, no. 10, Oct. 2020, 21 p., ill., maps. doi:10.1029/2019GB006456.
- Haynes, K.M., Smart, J., Disher, B., Carpino, O., Quinton, W.L. 2021. The role of hummocks in re-establishing black spruce forest following permafrost thaw. *Ecohydrology*, v. 14, no. 2, Apr. 2021, 16 p.,

ill., maps. doi:10.1002/eco.2273.

Henri, D.A., Carter, N.A., Irkok, A., Nipisar, S., Emiktaut, L., Saviakjuk, B., Salliq Project Management Committee, Arviat Project Management Committee, Ljubicic, G.J., Smith, P.A., Johnston, V. 2020. Qanuq ukua kanguit sunialiqpitigu? (What should we do with all of these geese?) Collaborative research to support wildlife co-management and Inuit self-determination. *Arctic science*, v. 6, no. 3, Sept. 2020, p. 173-207, ill., maps. doi:10.1139/as-2019-0015.

Heslop, J.K., Hung, J.K.Y., Tong, H., Simpson, M.J., Chapman, F.M., Roulet, N., Lafreniere, M.J., Lamoureux, S.F. 2021. Diverging pond dissolved organic matter characteristics yield similar CO₂ flux potentials in a disturbed High Arctic landscape. *Environmental research letters*, v. 16, no. 4, Mar. 2021, 12 p., ill., maps. doi:10.1088/1748-9326/abc913.

Hope, D.D., Lank, D.B., Smith, P.A., Paquet, J., Ydenberg, R.C. 2020. Migrant semipalmated sandpipers (*Calidris pusilla*) have over four decades steadily shifted towards safer stopover locations. *Frontiers in ecology and evolution*, v. 8, article 3, Jan. 2020, 13 p., ill., maps. doi:10.3389/fevo.2020.00003.

Hovel, R.A., Brammer, J.R., Hodgson, E.E., Amos, A., Lantz, T.C., Turner, C., Proverbs, T.A., Lord, S. 2020. The importance of continuous dialogue in community-based wildlife monitoring : case studies of dzan and luk dagai in the Gwich'in Settlement Area. *Arctic science*, v. 6, no. 3, Aug. 2020, p. 154-172, ill., maps. doi:10.1139/as-2019-0012.

Hudson, J.M., Anderson, W.G., Marcoux, M. 2021. Measurement of cortisol in blow samples collected from free-swimming beluga whales (*Delphinapterus leucas*). *Marine mammal science*, v. ?, no. ?, 2021, 13 p., ill., map. doi:10.1111/mms.12779.

Hutchins, R.H.S., Tank, S.E., Olefeldt, D., Quinton, W.L., Spence, C., Dion, N., Estop-Aragonés, C., Mengistu, S.G. 2020. Fluvial CO₂ and CH₄ patterns across wildfire-disturbed ecozones of subarctic Canada : current status and implications for future change. *Global change biology*, v. 26, no. 4, Apr. 2020, p.2304-2319, ill., maps. doi:10.1111/gcb.14960.

Hutchison, C., Guichard, F., Legagneux, P., Gauthier, G., Bêty, J., Berteaux, D., Fauteux, D., Gravel, D. 2020. Seasonal food webs with migrations : multi-season models reveal indirect species interactions in the Canadian Arctic tundra . *Philosophical transactions. Series A. Mathematical, physical, and engineering sciences*, v.378, no.2181, article 20190354, Oct. 2020, 20 p., ill. doi:10.1098/rsta.2019.0354.

Izett, R.W., Tortell, P.D. 2020. The Pressure of In situ Gases Instrument (PIGI) for autonomous shipboard measurement of dissolved O₂ and N₂ in surface ocean waters. *Oceanography (Washington, D.C.)*, v. 33, no. 2, June 2020, p. 156-162, ill. doi:10.5670/oceanog.2020.214.

Johnson, N., Pearce, T., Breton-Honeyman, K., Ndeloh Etiendem, D., Loseto, L.L. 2020. Knowledge co-production and co-management of arctic wildlife. *Arctic science*, v. 6, no. 3, Sept. 2020, p. 124-126. doi:10.1139/as-2020-0028.

Joli, N., Lacour, T., Freyria, N.J., Royer, S.-J., Babin, M., Lovejoy, C. 2021. Two versions of short-term phytoplankton ecophysiology and taxonomic assemblages in the Arctic Ocean's North Water (Canada, Greenland). *Journal of plankton research*, v. 43, no. 2, Mar./Apr. 2021, p. 126-141, ill., map.

doi:10.1093/plankt/fbab009.

Jungblut, A.D., Raymond, F., Dion, M.B., Moineau, S., Mohit, V., Nguyen, G.Q.H., Deraspe, M., Francovic-Fontaine, E., Lovejoy, C., Culley, A.I., Corbeil, J., Vincent, W.F. 2021. Genomic diversity and CRISPR-Cas systems in the cyanobacterium *Nostoc* in the High Arctic. *Environmental microbiology*, v. ?, no. ?, 2021, 41 p., ill., map. doi:10.1111/1462-2920.15481.

Kafle, P., Peller, P., Massolo, A., Hoberg, E., Leclerc, L.-M., Tomaselli, M., Kutz, S. 2020. Range expansion of muskox lungworms track rapid arctic warming : implications for geographic colonization under climate forcing. *Scientific reports*, v. 10, article 17323, 2020, 14 p., ill., maps. doi:10.1038/s41598-020-74358-5.

Kankaanpää, T., Vesterinen, E., Hardwick, B., Schmidt, N.M., Andersson, T., Aspholm, P.E., Barrio, I.C., Beckers, N., Bêty, J., Birkemoe, T., DeSiervo, M., Drotos, K.H.I., Ehrich, D., Gilg, O., Gilg, V., Hein, N., Høye, T.T., Jakobsen, K.M., Jodouin, C., Jorna, J., Kozlov, M.V., Kresse, J.-C., Leandri-Breton, D.-J., Lecomte, N., Loonen, M., Marr, P., Monckton, S.K., Olsen, M., Otis, J.-A., Pyle, M., Roos, R.E., Raundrup, K., Rozhkova, D., Sabard, B., Sokolov, A., Sokolova, N., Solecki, A.M., Urbanowicz, C., Villeneuve, C., Vyuzova, E., Zverev, V., Roslin, T. 2020. Parasitoids indicate major climate-induced shifts in arctic communities. *Global change biology*, v. 26, no. 11, Nov. 2020, p.6276-6295, ill., map. doi:10.1111/gcb.15297.

Kenny, T.-A., Archambault, P., Ayotte, P., Batal, M., Chan, H.M., Cheung, W., Eddy, T.D., Little, M., Ota, Y., Pétrin-Desrosiers, C., Plante, S., Poitras, J., Polanco, F., Singh, G., Lemire, M. 2020. Oceans and human health—navigating changes on Canada’s coasts. *FACETS*, v. 5, no. 1, Dec. 2020, p.1037-1070, ill. doi:10.1139/facets-2020-0035.

Kong, X., Doré, G., Calmels, F., Lemieux, C. 2021. Modeling the thermal response of air convection embankment in permafrost regions. *Cold regions science and technology*, v.182, article 103169, Feb. 2021, p. 69-89, ill., maps. doi:10.1016/j.coldregions.2020.103169.

Kourantidou, M., Hoover, C., Bailey, M. 2020. Conceptualizing indicators as boundary objects in integrating Inuit knowledge and western science for marine resource management. *Arctic science*, v. 6, no. 3, Jun. 2020, p. 279-306, ill., maps. doi:10.1139/AS-2019-0013.

Krause-Jensen, D., Archambault, P., Assis, J., Bartsch, I., Bischof, K., Filbee-Dexter, K., Dunton, K.H., Maximova, O., Ragnarsdóttir, S.B., Sejr, M.K., Simakova, U., Spiridonov, V., Wegeberg, S., Winding, M.H.S., Duarte, C.M. 2020. Imprint of climate change on pan-Arctic marine vegetation. *Frontiers in marine science*, v. 7, article 617324, Dec. 2020, 27 p., ill., maps. doi:10.3389/fmars.2020.617324.

Kutos, O., Rochon, A., Montero-Serrano, J.-C. 2021. Evolution of palaeo-sea-surface conditions and sediment dynamics over the last 2700 years on the Mackenzie Slope, Beaufort Sea (Canadian Arctic). *Boreas*, v. ?, no. ?, 2021, 22 p., ill., maps. doi:10.1111/bor.12513.

Labbé, M., Girard, C., Vincent, W.F., Culley, A.I. 2020. Extreme viral partitioning in a marine-derived High Arctic lake. *Frontiers in plant science*, v. 5, no. 3, article e00334-20, May 2020, 17 p., ill., maps. <https://msphere.asm.org/content/5/3/e00334-20>. doi:10.1128/mSphere.00334-20.

- Lacoursière-Roussel, A., Deiner, K. 2021. Environmental DNA is not the tool by itself. *Journal of fish biology*, v. 98, no. 2, Feb. 2021, p. 383-386, ill. doi:10.1111/jfb.14177.
- Langford, J.E., Schincariol, R.A., Nagare, R.M., Quinton, W.L., Mohammed, A.A. 2020. Transient and transition factors in modeling permafrost thaw and groundwater flow. *Sedimentology*, v. 58, no. 2, Mar./Apr. 2020, p. 258-268, ill., maps. doi:10.1111/gwat.12903.
- Lannuzel, D., Tedesco, L., van Leeuwe, M., Campbell, K., Flores, H., Delille, B., Miller, L., Stefels, J., Assmy, P., Bowman, J., Brown, K., Castellani, G., Chierici, M., Crabeck, O., Damm, E., Else, B., Fransson, A., Fripiat, F., Geilfus, N.-X., Jacques, C., Jones, E., Kaartokallio, H., Kotovitch, M., Meiners, K., Moreau, S., Nomura, D., Peeken, I., Rintala, J.-M., Steiner, N., Tison, J.-L., Vancoppenolle, M., Van der Linden, F., Vichi, M., Wongpan, P. 2020. The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. *Nature climate change*, v. 10, Nov. 2020, p. 983-992, ill., map. doi:10.1038/s41558-020-00940-4.
- Laurion, I., Massicotte, P., Mazoyer, F., Negandhi, K., Mladenov, N. 2021. Weak mineralization despite strong processing of dissolved organic matter in Eastern Arctic tundra ponds. *Limnology and oceanography*, v. 66, no. S1, Feb. 2021, p. S47-S63, ill. doi:10.1002/lno.11634.
- Layton, K.K.S., Dempson, B., Snelgrove, P.V.R., Duffy, S.J., Messmer, A.M., Paterson, I.G., Jeffery, N.W., Kess, T., Horne, J.B., Salisbury, S.J., Ruzzante, D.E., Bentzen, P., Côté, D., Nugent, C.M., Ferguson, M.M., Leong, J.S., Koop, B.F., Bradbury, I.R. 2020. Resolving fine-scale population structure and fishery exploitation using sequenced microsatellites in a northern fish. *Evolutionary applications*, v. 13, no. 5, May 2020, p.1055-1068, ill., maps. doi:10.1111/eva.12922.
- Lebrato, M., Garbe-Schönberg, D., Müller, M.N., Blanco-Ameijeiras, S., Feely, R.A., Lorenzoni, L., Molinero, J.-C., Bremer, K., Jones, D.O.B., Iglesias-Rodriguez, D., Greeley, D., Lamare, M.D., Paulmier, A., Graco, M., Cartes, J., Barcelos e Ramos, J., de Lara, A., Sanchez-Leal, R., Jimenez, P., Pappazzo, F.E., Hartman, S.E., Westernströer, U., Küter, M., Benavides, R., da Silva, A.F., Bell, S., Payne, C., Olafsdottir, S., Robinson, K., Jantunen, L.M., Korablev, A., Webster, R.J., Jones, E.M., Gilg, O., du Bois, P.B., Beldowski, J., Ashjian, C., Yahia, N.D., Twining, B., Chen, X.-G., Tseng, L.-C., Hwang, J.-S., Dahms, H.-U., Oschlies, A. 2020. Global variability in seawater Mg:Ca and Sr:Ca ratios in the modern ocean. *Proceedings of the National Academy of Sciences of the United States of America*, v.117, no. 36, 2020, p.22281-22292, ill. doi:10.1073/pnas.1918943117.
- Lees, K.J., MacNeil, M.A., Hedges, K.J., Hussey, N.E. 2021. Estimating demographic parameters for fisheries management using acoustic telemetry. *Reviews in fish biology and fisheries*, v. 31, Jan. 2021, p. 25-51, ill. doi:10.1007/s11160-020-09626-8.
- Lefort, K.J., Garroway, C.J., Ferguson, S.H. 2020. Killer whale abundance and predicted narwhal consumption in the Canadian Arctic. *Global change biology*, v. 26, no. 8, Aug. 2020, p.4276-4283, ill., map. doi:10.1111/gcb.15152.
- LeTourneau, F., Grandmont, T., Dulude-de Broin, F., Martin, M.-C., Lefebvre, J., Kato, A., Bêty, J., Gauthier, G., Legagneux, P. 2021. COVID19-induced reduction in human disturbance enhances fattening of an overabundant goose species. *Biological conservation*, v.255, article 108968, Mar. 2021, 8 p., ill., maps. doi:10.1016/j.biocon.2021.108968.

Li, Y., Fichot, C.G., Geng, L., Scarratt, M.G., Xie, H. 2020. The contribution of methane photoproduction to the oceanic methane paradox. *Geophysical research letters*, v. 47, no. 14, July 2020, 10 p., ill., maps. doi:10.1029/2020GL088362.

Limoges, A., Van Nieuwenhovea, N., Head, M.J., Mertens, K.N., Pospelova, V., Rochon, A. 2020. A review of rare and less well known extant marine organic-walled dinoflagellate cyst taxa of the orders Gonyaulacales and Suessiales from the Northern Hemisphere. *Marine micropaleontology*, v.159, article 101801, 2020, 20 p., ill., maps. doi:10.1016/j.marmicro.2019.101801.

Lintern, D.G., Rutherford, J., Hill, P.R., Campbell, C., Normandeau, A. 2020. Towards a national-scale assessment of the subaqueous mass movement hazard in Canada. *Special Publications of the Geological Society of London*, v. 500, 2020, p. 97-113, ill., maps. doi:10.1144/SP500-2019-206.

Liu, Z., Kimball, J.S., Parazoo, N.C., Ballantyne, A.P., Wang, W.J., Madani, N., Pan, C.G., Watts, J.D., Reichle, R.H., Sonnentag, O., Marsh, P., Hurkuck, M., Helbig, M., Quinton, W.L., Zona, D., Ueyama, M., Kobayashi, H., Euskirchen, E.S. 2020. Increased high-latitude photosynthetic carbon gain offset by respiration carbon loss during an anomalous warm winter to spring transition. *Global change biology*, v. 26, no. 2, Feb. 2020, p. 682-696, ill., map. doi:10.1111/gcb.14863.

Loria, A., Archambault, P., Burt, A., Ehrman, A., Grant, C., Power, M., Stern, G.A. 2020. Mercury and stable isotope ($\Delta^{13}\text{C}$ and $\Delta^{15}\text{N}$) trends in decapods of the Beaufort Sea. *Polar biology*, v. 43, 2020, p. 443–456. ill., maps. doi:10.1007/s00300-020-02646-x.

Loseto, L.L., Breton-Honeyman, K., Etiendem, D.N., Johnson, N., Pearce, T., Allen, J., Amos, A., Arqviq, J., Baak, J.E., Bélanger, É., Bourdages, M.P.T., Brammer, J.R., Fawcett, D., Gérin-Lajoie, J., Gilbert, G., Hansen-Craik, K., Loring, E., Perrin, A., Slavitch, M. 2020. Indigenous participation in peer review publications and the editorial process : reflections from a workshop. *Arctic science*, v. 6, no. 3, Jul. 2020, p. 352-360, ill. doi:10.1139/as-2020-0023.

Manning, C.C., Preston, V.L., Jones, S.F., Michel, A.P.M., Nicholson, D.P., Duke, P.J., Ahmed, M.M.M., Manganini, K., Else, B.G.T., Tortell, P.D. 2020. River inflow dominates methane emissions in an Arctic coastal system. *Geophysical research letters*, v. 47, no. 10, May 2020, 10 p., ill., maps. doi:10.1029/2020GL087669.

Marmillot, V., Parrish, C.C., Tremblay, J.-É., Gosselin, M., MacKinnon, J.F. 2020. Environmental and biological determinants of algal lipids in western Arctic and subarctic seas. *Frontiers in environmental science*, v. 8, article 538635, Dec. 2020, 16 p., ill., map. doi:10.3389/fenvs.2020.538635.

Matthes, L.C., Mundy, C.J., Lambert-Girard, S., Babin, M., Verin, G., Ehn, J.K. 2020. Spatial heterogeneity as a key variable influencing spring-summer progression in UVR and PAR transmission through Arctic sea ice. *Frontiers in marine science*, v. 7, article 183, Mar. 2020, 15 p., ill., maps. doi:10.3389/fmars.2020.00183.

Matthews, C.J.D., Longstaffe, F.J., Lawson, J.W., Ferguson, S.H. 2021. Distributions of Arctic and northwest Atlantic killer whales inferred from oxygen isotopes. *Nature scientific reports*, v. 11, article

6739, Mar. 2021, 13 p., ill., maps. doi:10.1038/s41598-021-86272-5.

Mavrot, F., Orsel, K., Hutchins, W., Adams, L.G., Beckmen, K., Checkley, S.L., Davison, T., Di Francesco, J., Elkin, B., Leclerc, L.-M., Schneider, A., Blake, J.E., Tomaselli, M., Kutz, S.J. 2020. Novel insights into serodiagnosis and epidemiology of *Erysipelothrix rhusiopathiae*, a newly recognized pathogen in muskoxen (*Ovibos moschatus*). *PloS one*, v. 15, no. 4, e0231724, Apr. 2020, 21 p., ill., maps. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0231724>. doi:10.1371/journal.pone.0231724.

McCarter, C.P.R., Rezanezhad, F., Quinton W.L., Gharedaghloo, B., Lennartz, B., Connon, R., Van Cappellen, P. 2020. Pore-scale controls on hydrological and geochemical processes in peat : Implications on interacting processes. *Earth-science reviews*, v.207, article 103227, Aug. 2020, 17 p., ill. doi:10.1016/j.earscirev.2020.103227.

McKenzie, C.H., Bates, S.S., Martin, J.L., Haigh, N., Howland, K.L., Lewis, N.I., Locke, A., Peña, A., Poulin, M., Rochon, A., Rourke, W.A., Scarratt, M.G., Starr, M., Wells, T. 2021. Three decades of Canadian marine harmful algal events : Phytoplankton and phycotoxins of concern to human and ecosystem health. *Harmful algae*, v.102, article 101852, Feb. 2021, 18 p., ill., maps. doi:10.1016/j.hal.2020.101852.

Mears, C., Thomas, H., Henderson, P.B., Charette, M.A., MacIntyre, H., Dehairs, F., Monnin, C., Mucci, A. 2020. Using ^{226}Ra and ^{228}Ra isotopes to distinguish water mass distribution in the Canadian Arctic Archipelago. *Biogeosciences*, v. 17, no. 20, 2020, p.4937–4959, ill., map. doi:10.5194/bg-17-4937-2020.

Meyer, N., Bollache, L., Dechaume-Moncharmont, F.-X., Moreau, J., Afonso, E., Angerbjörn, A., Bêty, J., Ehrich, D., Gilg, V., Giroux, M.-A., Hansen, J., Lanctot, R.B., Lang, J., Lecomte, N., McKinnon, L., Reneerkens, J., Saalfeld, S.T., Sabard, B., Schmidt, N.M., Sittler, B., Smith, P., Sokolov, A., Sokolov, V., Sokolova, N., van Bemmelen, R., Gilg, O. 2020. Nest attentiveness drives nest predation in arctic sandpipers. *Oikos*, v.129, no. 10, Oct. 2020, p. 1481-1492, ill., maps. doi:10.1111/oik.07311.

Meyer, N., Bollache, L., Galipaud, M., Moreau, J., Dechaume-Moncharmont, F.-X., Afonso, E., Angerbjörn, A., Bêty, J., Brown, G., Ehrich, D., Gilg, V., Giroux, M.-A., Hansen, J., Lanctot, R., Lang, J., Latty, C., Lecomte, N., McKinnon, L., Kennedy, L., Reneerkens, J., Saalfeld, S., Sabard, B., Schmidt, N.M., Sittler, B., Smith, P., Sokolov, A., Sokolov, V., Sokolova, N., van Bemmelen, R., Varpe, Ø., Gilg, O. 2021. Behavioural responses of breeding arctic sandpipers to ground-surface temperature and primary productivity. *Science of the total environment*, v.755, no.142485, Feb. 2021, 13 p. ill., maps. doi:10.1016/j.scitotenv.2020.142485.

Miller, A., Elliott, J.E., Wilson, L.K., Elliott, K.H., Drouillard, K.G., Verreault, J., Lee, S., Idrissi, A. 2020. Influence of overwinter distribution on exposure to persistent organic pollutants (POPs) in seabirds, ancient murrelets (*Synthliboramphus antiquus*), breeding on the Pacific coast of Canada. *Environmental pollution*, v.256, article 113842, Apr. 2020, 9 p., ill., maps. doi:10.1016/j.envpol.2019.113842.

Miller, C.B., Parsons, M.B., Jamieson, H.E., Ardakani, O.H., Gregory, B.R.B., Galloway, J.M. 2020. Influence of late-Holocene climate change on the solid-phase speciation and long-term stability of arsenic in sub-Arctic lake sediments. *Science of the total environment*, v.709, article 136115, Mar. 2020, 18 p.,

ill., maps. doi:10.1016/j.scitotenv.2019.136115.

Morales, A., Frei, B., Leung, C., Titman, R., Whelan, S., Benowitz-Fredericks, M., Elliott, K.H. 2020. Point-of-care blood analyzers measure the nutritional state of eighteen free-living bird species. *Comparative biochemistry and physiology. Part A: Molecular & integrative physiology*, v. 240, article 110594, 2020, 11 p., ill. doi:10.1016/j.cbpa.2019.110594.

Mortenson, E., Steiner, N., Monahan, A.H., Hayashida, H., Sou, T., Shao, A. 2020. Modeled impacts of sea ice exchange processes on Arctic Ocean carbon uptake and acidification (1980–2015). *Journal of geophysical research. Oceans*, v.125, no. 7, July 2020, 20 p., ill., maps. doi:10.1029/2019JC015782.

Nadaï, G., Nöthig, E.-M., Fortier, L., Lalande, C. 2021. Early snowmelt and sea ice breakup enhance algal export in the Beaufort Sea. *Progress in oceanography*, v.190, article 102479, Jan. 2021, 11 p., ill., map. doi:10.1016/j.pocean.2020.102479.

Nadin-Davis, S.A., Falardeau, E., Flynn, A., Whitney, H., Marshall, H.D. 2021. Relationships between fox populations and rabies virus spread in northern Canada. *PloS one*, v. 16, no. 2, article e0246508, Feb. 2021, 27 p., ill., maps. doi:10.1371/journal.pone.0246508.

Nasser, N.A., Gregory, B.R.B., Steele, R.E., Patterson, R.T., Galloway, J.M. 2020. Behind the organic veil : assessing the impact of chemical deflocculation on organic content reduction and Lacustrine Arcellinida (Testate Amoebae) analysis. *Microbial ecology*, v. 79, 2020, p. 443–458, ill., maps. doi:10.1007/s00248-019-01429-0.

Nasser, N.A., Patterson, R.T., Roe, H.M., Galloway, J.M., Falck, H., Sanei, H. 2020. Use of Arcellinida (testate lobose amoebae) arsenic tolerance limits as a novel tool for biomonitoring arsenic contamination in lakes. *Ecological indicators*, v.113, Jun. 2020, 13 p., ill., maps. doi:10.1016/j.ecolind.2020.106177.

Naylor, A., Ford, J., Pearce, T., Van Alstine, J. 2020. Conceptualizing climate vulnerability in complex adaptive systems. *One Earth*, v. 2, no. 5, May 2020, p. 444-454, ill. doi:10.1016/j.oneear.2020.04.011.

Ndeloh Etiendem, D., Jeppesen, R., Hoffman, J., Ritchie, K., Keats, B., Evans, P., Quinn, D.E.A. 2020. The Nunavut Wildlife Management Board's Community-Based Monitoring Network : documenting Inuit harvesting experience using modern technology. *Arctic science*, v. 6, no. 3, Sept. 2020, p. 307-325, ill., maps. doi:10.1139/as-2020-0008.

Ogloff, W.R., Ferguson, S.H., Tallman, R.F., Davoren, G.K. 2020. Diet of capelin (*Mallotus villosus*) in the Eastern Canadian Arctic inferred from stomach contents and stable isotopes. *Polar biology*, v. 43, 2020, p.1273-1285, ill., maps. doi:10.1007/s00300-020-02707-1.

Ogloff, W.R., Ferguson, S.H., Fisk, A.T., Marcoux, M., Hussey, N.E., Jaworenko, A., Yurkowski, D.J. 2021. Long-distance movements and associated diving behaviour of ringed seals (*Pusa hispida*) in the eastern Canadian Arctic. *Arctic science*, v. ?, no. ?, 2021, 18 p., ill., maps. doi:10.1139/AS-2019-0042.

Owskiacki, R., Buhler, K.J., Sharma, R., Branigan, M., Fenton, H., Tomaselli, M., Kafle, P., Lobanov, V.A., Bouchard, É., Jenkins, E. 2020. *Trichinella nativa* and *Trichinella T6* in arctic foxes (*Vulpes lagopus*) from northern Canada. *International journal for parasitology. Parasites and wildlife.*, v. 13, Dec.

2020, p. 269-274, ill., maps. doi:10.1016/j.ijppaw.2020.11.006.

O'Neill, H.B., Roy-Leveillee, P., Lebedeva, L., Ling, F. 2020. Recent advances (2010–2019) in the study of taliks. *Permafrost and periglacial processes*, v. 31, no. 3, July/Sept. 2020, p. 346-357, ill., maps. doi:10.1002/ppp.2050.

Paquette, M., Fortier, D., Lafrenière, M., Vincent, W.F. 2020. Periglacial slopewash dominated by solute transfers and subsurface erosion on a High Arctic slope. *Permafrost and periglacial processes*, v. 31, no. 4, Oct./Dec. 2020, p. 472-486, ill., maps. doi:10.1002/ppp.2066.

Peacock, S.J., Mavrot, F., Tomaselli, M., Hanke, A., Fenton, H., Nathoo, R., Aleuy, O.A., Di Francesco, J., Aguilar, X.F., Jutha, N., Kafle, P., Mosbacher, J., Goose, A., Ekaluktutiak Hunters and Trappers Organization, Kugluktuk Angoniatit Association, Olokhaktomiut Hunters and Trappers Committee, Kutz, S.J. 2020. Linking co-monitoring to co-management : bringing together local, traditional, and scientific knowledge in a wildlife status assessment framework. *Arctic science*, v. 6, no. 3, Sept. 2020, p. 247-266, ill. doi:10.1139/as-2019-0019.

Pedersen, C., Otokiak, M., Koonoo, I., Milton, J., Maktar, E., Anaviapik, A., Milton, M., Porter, G., Scott, A., Newman, C., Porter, C., Aaluk, T., Tiriraniaq, B., Pedersen, A., Riffi, M., Solomon, E., Elverum, S. 2020. ScIQ : an invitation and recommendations to combine science and Inuit Qaujimajatuqangit for meaningful engagement of Inuit communities in research. *Arctic science*, v. 6, no. 3, Jul. 2020, p. 326-339, ill. doi:10.1139/as-2020-0015.

Persaud, B.D., Whitfield, P.H., Quinton, W.L., Stone, L.E. 2020. Evaluating the suitability of three gridded-datasets and their impacts on hydrological simulation at Scotty Creek in the southern Northwest Territories, Canada. *Hydrological processes*, v. 34, no. 4, Feb. 2020, p. 898-913 ill., map. doi:10.1002/hyp.13663.

Pettitt-Wade, H., Pearce, T., Kuptana, D., Gallagher, C.P., Scharffenberg, K., Lea, E.V., Hussey, N.E., Loseto, L.L. 2020. Inuit observations of a Tunicata bloom unusual for the Amundsen Gulf, western Canadian Arctic. *Arctic science*, v. 6, no. 3, Jul. 2020, p. 340-351, ill., maps. doi:10.1139/as-2020-0018 .

Peura, S., Wauthy, M., Simone, D., Eiler, A., Einarsdóttir, K., Rautio, M., Bertilsson, S. 2020. Ontogenic succession of thermokarst thaw ponds is linked to dissolved organic matter quality and microbial degradation potential. *Limnology and oceanography letters*, v. 65, no. S1, 2020, p.S248-S263, ill. doi:10.1002/lno.11349.

Pienkowski, A.J., Kennaway, S., Lang, S.I. 2020. Aquatic palynomorphs from modern marine sediments in a reconnaissance transect across the Northwest Passage – Baffin Bay region. *Marine micropaleontology*, v.156, article 101825, Apr. 2020, 14 p., ill., map. doi:10.1016/j.marmicro.2020.101825.

Pokorny, S., Stadnyk, T.A., Lilhare, R., Ali, G., Déry, S.J., Koenig, K. 2020. Use of ensemble-based gridded precipitation products for assessing input data uncertainty prior to hydrologic modeling. *Journal of water and health*, v. 12, no. 10, article 2751, Sept. 2020, 22 p. ill., maps. doi:10.3390/w12102751.

Poulin, M.-P., Clermont, J., Berteaux, D. 2021. Extensive daily movement rates measured in territorial arctic foxes. *Ecology and evolution*, v. 11, no. 6, Mar. 2021, p.2503-2514, ill., map. doi:10.1002/ece3.7165.

Preskienis, V., Laurion, I., Bouchard, F., Douglas, P.M.J., Billett, M.F., Fortier, D., Xu, X. 2021. Seasonal patterns in greenhouse gas emissions from lakes and ponds in a High Arctic polygonal landscape. *Limnology and oceanography*, v. 66, no. S1, Feb. 2021, p.S117-S141, ill., maps. doi:10.1002/lno.11660.

Rathwell, K.J. 2020. "She is transforming" : Inuit artworks reflect a cultural response to Arctic sea ice and climate change. *Arctic*, v. 73, no. 1, Mar. 2020, p. 67-80, ill., map. doi:10.14430/arctic69945.

Reséndiz-Infante, C., Gauthier, G. 2020. Temporal changes in reproductive success and optimal breeding decisions in a long-distance migratory bird. *Nature scientific reports*, v. 10, article 22067, Dec. 2020, 10 p., ill. doi:10.1038/s41598-020-78565-y.

Riedel, M., King, E.L., Cameron, G.D.M., Blasco, S., Conway, K.W., Dallimore, S.R., Rohr, K.M.M., Jin, Y.K., Hong, J.K. 2021. A chronology of post-glacial mass-transport deposits on the Canadian Beaufort Slope. *Marine geology*, v.433, article 106407, Mar. 2021, 18 p., ill., maps. doi:10.1016/j.margeo.2020.106407.

Riou, L., Nasser, N.A., Patterson, R.T., Gregory, B.R.B., Galloway, J.M., Falck, H. 2021. Lacustrine arcellinida (Testate lobose amoebae) as bioindicators of arsenic concentration within the Yellowknife City gold project, Northwest Territories, Canada. *Limnologica*, v. 87, article 125862, Mar. 2021, 11 p., ill., maps. doi:10.1016/j.limno.2021.125862.

Riva, M., Perreault, K., Dufresne, P., Fletcher, C., Muckle, G., Potvin, L., Baillie, R., Baron, M. 2020. Social housing construction and improvements in housing outcomes for Inuit in Northern Canada. *Housing studies*, v. ?, no. ?, May 2020, 22 p., ill. doi:10.1080/02673037.2020.1739233.

Robillard, A., Gauthier, G., Therrien, J.-F., Bêty, J. 2020. Linking winter habitat use, diet and reproduction in snowy owls using satellite tracking and stable isotope analyses. *Isotopes in environmental and health studies*, v. ?, no. ?, Oct. 2020, 18 p., ill. doi:10.1080/10256016.2020.1835888.

Rontani, J.-F., Amiraux, R., Smik, L., Wakeham, S.G., Paulmier, A., Vaultier, F., Sun-Yong, H., Jun-Oh, M., Belt, S.T. 2021. Type II photosensitized oxidation in senescent microalgal cells at different latitudes : does low under-ice irradiance in polar regions enhance efficiency?. *Science of the total environment*, v.779, article 146363, 2021, [9] p., ill., map. doi:10.1016/j.scitotenv.2021.146363.

Saidi-Mehrabad, A., Neuberger, P., Cavaco, M., Froese, D., Lanoil, B. 2020. Optimization of subsampling, decontamination, and DNA extraction of difficult peat and silt permafrost samples. *Scientific reports*, v. 10, article 14295, 2020, 10 p., ill., map. doi:10.1038/s41598-020-71234-0.

Saidi-Mehrabad, A., Neuberger, P., Hajihosseini, M., Froese, D., Lanoil, B.D. 2020. Permafrost microbial community structure changes across the Pleistocene-Holocene boundary. *Frontiers in environmental science*, v. 8, article 133, Aug. 2020, 11 p., ill. doi:10.3389/fenvs.2020.00133.

Saint-Béat, B., Fath, B.D., Aubry, C., Colombet, J., Dinasquet, J., Fortier, L., Galindo, V., Grondin, P.-L., Joux, F., Lalonde, C., LeBlanc, M., Raimbault, P., Sime-Ngando, T., Tremblay, J.-E., Vaultot, D., Maps, F., Babin, M. 2020. Contrasting pelagic ecosystem functioning in eastern and western Baffin Bay revealed by trophic network modeling. *Elementa : science of the anthropocene*, v. 8, article 1, 2020, 24 p., ill., map. doi:10.1525/elementa.397.

Saltymakova, D., Desmond, D.S., Isleifson, D., Firoozy, N., Neusitzer, T.D., Xu, Z., Lemes, M., Barber, D.G., Stern, G.A. 2020. Effect of dissolution, evaporation, and photooxidation on crude oil chemical composition, dielectric properties and its radar signature in the Arctic environment. *Marine pollution bulletin*, v.151, article 110629, Feb. 2020, 14 p., ill. doi:10.1016/j.marpolbul.2019.110629.

Schaffer, N., Copland, L., Zdanowicz, C., Burgess, D., Nilsson, J. 2020. Revised estimates of recent mass loss rates for Penny Ice Cap, Baffin Island, based on 2005–2014 elevation changes modified for firn densification. *Journal of geophysical research. Earth surface*, v.125, no. 8, article e2019JF005440, Aug. 2020, 17 p., ill., maps. doi:10.1029/2019JF005440.

Schang, K.A., Trant, A.J., Bohnert, S.A., Closs, A.M., Humchitt, M., McIntosh, K.P., Way, R.G., Wickham, S.B. 2020. Ecological research should consider Indigenous peoples and stewardship. *FACETS*, v. 5, no. 1, Jul. 2020, p. 534-537, ill. <https://www.facetsjournal.com/doi/pdf/10.1139/facets-2019-0041>. doi:10.1139/facets-2019-0041.

Scheifele, B., Waterman, S., Carpenter, J.R. 2021. Turbulence and mixing in the Arctic Ocean's Amundsen Gulf. *Journal of physical oceanography*, v. 51, no. 1, 2021, p. 169-186, ill., maps. doi:10.1175/JPO-D-20-0057.1.

Schott, S., Qitsualik, J., Van Coeverden de Groot, P., Okpakok, S., Chapman, J.M., Lougheed, S., Walker, V.K. 2020. Operationalizing knowledge coevolution : towards a sustainable fishery for Nunavummiut. *Arctic science*, v. 6, no. 3, Mar. 2020, p. 208-228, ill, maps. doi:10.1139/as-2019-0011.

Scott, K.A. 2020. Extended categorical triple collocation for evaluating sea ice/open water data sets. *IEEE geoscience and remote sensing letters*, v. ?, no. ?, May 2020, 5 p., ill. doi:10.1109/LGRS.2020.2990332.

Sevellec, M., Lacoursière-Roussel, A., Bernatchez, L., Normandeau, E., Solomon, E., Arreak, A., Fishback, L., Howland, K. 2020. Detecting community change in Arctic marine ecosystems using the temporal dynamics of environmental DNA. *Environmental DNA (Hoboken, N.J.)*, v. ?, no. ?, Oct. 2020, 18 p., ill., map. doi:10.1002/edn3.155 .

Seyer, Y., Gauthier, G., Fauteux, D., Therrien, J.-F. 2020. Resource partitioning among avian predators of the Arctic tundra. *Journal of animal ecology*, v. 89, no. 12, Dec. 2020, p.2934-2945, ill., maps. doi:10.1111/1365-2656.13346.

Sharma, R., Thompson, P.C., Hoberg, E.P., Scandrett, W.B., Konecni, K., Harms, N.J., Kukka, P.M., Jung, T.S., Elkin, B., Mulders, R., Larter, N.C., Branigan, M., Pongracz, J., Wagner, B., Kafle, P., Lobanov, V.A., Rosenthal, B.M., Jenkins, E.J. 2020. Hiding in plain sight : discovery and phylogeography of a cryptic species of *Trichinella* (Nematoda : Trichinellidae) in wolverine (*Gulo gulo*). *International journal for parasitology : Parasites and wildlife*, v. 50, no. 4, Apr. 2020, p. 277-287, ill.,

map. doi:10.1016/j.ijpara.2020.01.003.

Sherwood, O.A., Davin, S.H., Lehmann, N., Buchwald, C., Edinger, E.N., Lehmann, M.F., Kienast, M. 2021. Stable isotope ratios in seawater nitrate reflect the influence of Pacific water along the Northwest Atlantic margin. *Biogeosciences*, v. ?, no. ?, 2021, 32 p., ill., maps. doi:10.5194/bg-2021-45.

Smith, P.A., McKinnon, L., Meltofte, H., Lanctot, R.B., Fox, A.D., Leafloor, J.O., Soloviev, M., Franke, A., Falk, K., Golovatin, M., Sokolov, V., Sokolov, A., Smith, A.C. 2020. Status and trends of tundra birds across the circumpolar Arctic. *Ambio*, v. 49, 2020, p. 732–748, ill., map. doi:10.1007/s13280-019-01308-5.

Snow, K., Miller, T., O'Gorman, M. 2021. Strategies for culturally responsive assessment adopted by educators in Inuit Nunangat. *Diaspora, indigenous and minority education*, v. 15, no. 1, 2021, p. 61-76, ill. doi:10.1080/15595692.2020.1786366.

Sohns, A., Ford, J.D., Adamowski, J., Robinson, B.E. 2021. Participatory modeling of water vulnerability in remote Alaskan households using causal loop diagrams. *Environmental management*, v. 67, 2021, p. 26-42, ill. doi:10.1007/s00267-020-01387-1.

Spence, C., Hedstrom, N., Tank, S.E., Quinton, W.L., Olefeldt, D., Goodman, S., Dion, N. 2020. Hydrological resilience to forest fire in the subarctic Canadian shield. *Hydrological processes*, v. 34, no. 25, Dec. 2020, p.4940-4958, ill., map. doi:10.1002/hyp.13915.

Stadnyk, T.A., MacDonald, M.K., Tefs, A., Déry, S.J., Koenig, K., Gustafsson, D., Isberg, K., Arheimer, B. 2020. Hydrological modeling of freshwater discharge into Hudson Bay using HYPE. *Elementa : science of the anthropocene*, v. 8, no. 43, 2020, 19 p., ill., maps. doi:10.1525/elementa.439.

Sühring, R., Diamond, M.L., Scheringer, M., Jantunen, L.M. 2020. A long way from home—industrial chemicals in the Arctic that really should not be there. *Frontiers for young minds*, v. 8, no. 2, Feb. 2020, 9 p., ill. doi:10.3389/frym.2020.00002.

Taylor, J.J., Lawler, J.P., Aronsson, M., Barry, T., Bjorkman, A.D., Christensen, T., Coulson, S.J., Cuyler, C., Ehrich, D., Falk, K., Franke, A., Fuglei, E., Gillespie, M.A., Heiðmarsson, S., Høye, T., Jenkins, L.K., Ravolainen, V., Smith, P.A., Wasowicz, P., Schmidt, N.M. 2020. Arctic terrestrial biodiversity status and trends : A synopsis of science supporting the CBMP state of Arctic terrestrial biodiversity report. *Ambio*, v. 49, no. 3, 2020, p. 833-847, ill., map. doi:10.1007/s13280-019-01303-w.

Thimot, N.J., Titman, R.D., Elliott, K.H., Craik, S.R. 2020. Conspecific brood parasitism in an upland-nesting bird : cues parasites use to select a nest. *Behavioral ecology and sociobiology*, v. 74, no. 27, Jan. 2020, 10 p. ill., maps. doi:10.1007/s00265-020-2808-3.

Travers-Smith, H.Z., Lantz, T.C. 2020. Leading-edge disequilibrium in alder and spruce populations across the forest–tundra ecotone. *Ecosphere (Washington, D.C.)*, v. 11, no. 7, e03118, Jul. 2020, 16 p., ill., maps. doi:10.1002/ecs2.3118.

Trottier, A.P., Lajeunesse, P., Gagnon-Poiré, A., Francus, P. 2020. Morphological signatures of deglaciation and postglacial sedimentary processes in a deep fjord-lake (Grand Lake, Labrador). *Earth surface processes and landforms*, v. 45, no. 4, Mar. 2020, p. 928-947, ill., maps. doi:10.1002/esp.4786.

Tutton, R.J., Way, R.G. 2020. A low-cost method for monitoring snow characteristics at remote field sites. *The cryosphere*, v. ?, no. ?, 2020, 25 p., ill., maps. doi:10.5194/tc-2020-207.

van Dijk, J.G.B., Iverson, S.A., Gilchrist, H.G., Harms, N.J., Hennin, H.L., Love, O.P., Buttler, E.I., Lesceu, S., Foster, J.T., Forbes, M.R., Soos, C. 2021. Herd immunity drives the epidemic fadeout of avian cholera in Arctic-nesting seabirds. *Nature scientific reports*, v. 11, article 1046, 2021, 10 p., ill., maps. doi:10.1038/s41598-020-79888-6.

Van Huizen, B., Petrone, R.M., Price, J.S., Quinton, W.L., Pomeroy, J.W. 2020. Seasonal ground ice impacts on spring ecohydrological conditions in a western boreal plains peatland. *Hydrological processes*, v. 34, no. 3, Jan. 2020, p. 765-779, ill., map. doi:10.1002/hyp.13626.

van Luijk, N., Dawson, J., Cook, A. 2020. Analysis of heavy fuel oil use by ships operating in Canadian Arctic waters from 2010 to 2018. *FACETS*, v. 5, no. 1, May 2020, p. 304-327, ill., maps. doi:10.1139/facets-2019-0067.

Van Nieuwenhove, N., Head, M.J., Limoges, A., Pospelova, V., Mertens, K.N., Matthiessen, J., De Schepper, S., de Vernal, A., Eynaud, F., Londeix, L., Marret, F., Penaud, A., Radi, T., Rochon, A. 2020. An overview and brief description of common marine organic-walled dinoflagellate cyst taxa occurring in surface sediments of the Northern Hemisphere. *Marine micropaleontology*, v.159, article 101814, Aug. 2020, 46 p., ill., maps. doi:10.1016/j.marmicro.2019.101814.

Van Wychen, W., Burgess, D., Kochtitzky, W., Nikolic, N., Copland, L., Gray, L. 2020. RADARSAT-2 derived glacier velocities and dynamic discharge estimates for the Canadian High Arctic : 2015–2020. *Canadian journal of remote sensing*, v. 46, no. 6, 2020, p. 695-714, ill., maps. doi:10.1080/07038992.2020.1859359.

Varty, S., Lehnerr, I., St. Pierre, K., Kirk, J., Wisniewski, V. 2020. Methylmercury transport and fate shows strong seasonal and spatial variability along a High Arctic freshwater hydrologic continuum . *Environmental science & technology*, v. 55, no. 1, 2020, p. 331-340, ill., maps. doi:10.1021/acs.est.0c05051.

Verocai, G.G., Hoberg, E.P., Simard, M., Beckmen, K.B., Musiani, M., Wasser, S., Cuyler, C., Manseau, M., Chaudhry, U.N., Kashivakura, C.K., Gilleard, J.S., Kutz, S.J. 2020. The biogeography of the caribou lungworm, *Varestrongylus eleguneniensis* (Nematoda : Protostrongylidae) across northern North America. *International journal for parasitology. Parasites and wildlife.*, v. 11, Apr. 2020, p. 93-102., ill., maps. doi:10.1016/j.ijppaw.2020.01.001.

Vignerón, A., Cruaud, P., Langlois, V., Lovejoy, C., Culley, A.I., Vincent, W.F. 2020. Ultra-small and abundant : Candidate phyla radiation bacteria are potential catalysts of carbon transformation in a thermokarst lake ecosystem. *Limnology and oceanography letters*, v. 5, no. 2, Apr. 2020, p. 212-220, ill., maps. doi:10.1002/lol2.10132.

Vigneron, A., Cruaud, P., Culley, A.I., Couture, R.-M., Lovejoy, C., Vincent, W.F. 2021. Genomic evidence for sulfur intermediates as new biogeochemical hubs in a model aquatic microbial ecosystem. *Microbiome*, v. 9, no. 46, 2021, 14 p., ill., map. doi:10.1186/s40168-021-00999-x.

Vilgrain, L., Maps, F., Picheral, M., Babin, M., Aubry, C., Irisson, J.-O., Ayata, S.-D. 2020. Trait-based approach using in situ copepod images reveals contrasting ecological patterns across an Arctic ice melt zone. *Limnology and oceanography*, v. ?, no. ?, 2021, 13 p., ill., maps. doi: 10.1002/lno.11672.

Vincent, W.F., Canário, J., Boike, J. 2020. Understanding the terrestrial effects of Arctic sea ice decline. *Eos (Washington, D.C.)*, v.100, Jul. 2019, 2 p., ill. doi:10.1029/2019EO128471.

Vincent, W.F., Mueller, D. 2020. Witnessing ice habitat collapse in the Arctic. *Science*, v.370, no.6520, Nov. 2020, p.1031-1032, ill. doi:10.1126/science.abe4491.

Walker, E.V., Yuan, Y., Girgis, S., Goodman, K.J. 2020. Patterns of fish and whale consumption in relation to methylmercury in hair among residents of Western Canadian Arctic communities. *BMC public health*, v. 20, no.1073, Jul. 2020, 13 p., ill. doi:10.1186/s12889-020-09133-2.

Wassmann, P., Carmack, E.C., Bluhm, B.A., Duarte, C.M., Berge, J., Brown, K., Grebmeier, J.M., Holding, J., Kosobokova, K., Kwok, R., Matrai, P., Agusti, S.R., Babin, M., Bhatt, U., Eicken, H., Polyakov, I., Rysgaard, S., Huntington, H.P. 2020. Towards a unifying pan-arctic perspective : A conceptual modelling toolkit. *Progress in oceanography*, v.189, article 102455, Nov./Dec. 2020, 12 p., ill., maps. doi:10.1016/j.pocean.2020.102455.

Wauthy, M., Rautio, M. 2020. Permafrost thaw stimulates primary producers but has a moderate effect on primary consumers in subarctic ponds. *Ecosphere (Washington, D.C.)*, v. 11, no. 6, article e03099, Jun. 2020, 16 p., ill. doi:10.1002/ecs2.3099.

Wauthy, M., Rautio, M. 2020. Emergence of steeply stratified permafrost thaw ponds changes zooplankton ecology in subarctic freshwaters. *Arctic, Antarctic, and alpine research*, v. 52, no. 1, 2020, p. 177-190, ill. doi:10.1080/15230430.2020.1753412.

Way, R., Lapalme, C. 2021. Does tall vegetation warm or cool the ground surface? Constraining the ground thermal impacts of upright vegetation in northern environments. *Environmental research letters*, v. ?, no. ?, 2021, 35 p., ill. doi:10.1088/1748-9326/abef31.

Weckströmae, K., Roche, B.R., Miettinen, A., Krawczyk, D., Limoges, A., Juggins, S., Ribeiro, S., Heikkilä, M. 2020. Improving the paleoceanographic proxy tool kit – on the biogeography and ecology of the sea ice-associated species *Fragilariopsis oceanica*, *Fragilariopsis reginae-jahniae* and *Fossula arctica* in the northern North Atlantic. *Marine micropaleontology*, v.157, article 101860, May 2020, 11 p., ill., maps. doi:10.1016/j.marmicro.2020.101860.

Wei, C.-L., Cusson, M., Archambault, P., Belley, R., Brown, T., Burd, B.J., Edinger, E., Kenchington, E., Gilkinson, K., Lawton, P., Link, H., Ramey-Balci, P.A., Scrosati, R.A., Snelgrove, P.V.R. 2020. Seafloor biodiversity of Canada's three oceans : patterns, hotspots and potential drivers. *Diversity and distributions*, v. 26, no. 2, Feb. 2020, p. 226-241, maps. doi:10.1111/ddi.13013.

Weiser, E.L., Lanctot, R.B., Brown, S.C., Gates, H.R., Bêty, J., Boldenow, M.L., Brook, R.W., Brown, G.S., English, W.B., Flemming, S.A., Franks, S.E., Gilchrist, H.G., Giroux, M.-A., Johnson, A., Kendall, S., Kennedy, L.V., Koloski, L., Kwon, E., Lamarre, J.-F., Lank, D.B., Latty, C.J., Lecomte, N., Liebezeit, J.R., McGuire, R.L., McKinnon, L., Nol, E., Payer, D., Perz, J., Rausch, J., Robards, M., Saalfeld, S.T., Senner, N.R., Smith, P.A., Soloviev, M., Solovyeva, D., Ward, D.H., Woodard, P.F., Sandercock, B.K. 2020. Annual adult survival drives trends in Arctic-breeding shorebirds but knowledge gaps in other vital rates remain. *The Condor* (Los Angeles, Calif.), v.122, no. 3, 2020, p. 1-14, ill., maps. doi:10.1093/condor/duaa026.

Whelan, S., Hatch, S.A., Irons, D.B., McKnight, A., Elliott, K.H. 2020. Increased summer food supply decreases non-breeding movement in black-legged kittiwakes. *Biology letters*, v. 16, no. 1, Jan. 2020, 6 p., ill. doi:10.1098/rsbl.2019.0725.

Williamson, S.N., Copland, L., Thomson, L., Burgess, D. 2020. Comparing simple albedo scaling methods for estimating Arctic glacier mass balance. *Remote sensing of environment*, v.246, Sept. 2020, 14 p., ill., maps. doi:10.1016/j.rse.2020.111858.

Wilson, K.J., Bell, T., Arreak, A., Koonoo, B., Angnatsiak, D., Ljubicic, G.J. 2020. Changing the role of non-Indigenous research partners in practice to support Inuit self-determination in research. *Arctic science*, v. 6, no. 3, Aug. 2020, p. 127-153, ill. doi:10.1139/as-2019-0021.

Worden, E., Pearce, T., Gruben, M., Ross, D., Kowana, C., Loseto, L. 2020. Social-ecological changes and implications for understanding the declining beluga whale (*Delphinapterus leucas*) harvest in Aklavik, Northwest Territories. *Arctic science*, v. 6, no. 3, Jul. 2020, p. 229-246, ill., maps. doi:10.1139/as-2019-0027.

Yunda-Guarin, G., Brown, T.A., Michel, L.N., Saint-Béat, B., Amiraux, R., Nozais, C., Archambault, P. 2020. Reliance of deep-sea benthic macrofauna on ice-derived organic matter highlighted by multiple trophic markers during spring in Baffin Bay, Canadian Arctic. *Elementa : science of the anthropocene*, v. 8, no. 1, 2020, 18 p., ill., maps. doi:10.1525/elementa.2020.047.

Zwieback, S., Boike, J., Marsh, P., Berg, A. 2020. Debris cover on thaw slumps and its insulative role in a warming climate. *Earth surface processes and landforms*, v. 45, no. 11, Sept. 2020, p.2631-2646, ill., maps. doi:10.1002/esp.4919.