

Amiraux R, Belt ST, Vaultier F, Galindo V, Gosselin M, Bonin P, Rontani JF (2017) Monitoring photo-oxidative and salinity-induced bacterial stress in the Canadian Arctic using specific lipid tracers. *Marine Chemistry* 194:89-99.

Ardyna M, Babin M, Devred E, Forest A, Gosselin M, Raimbault P, Tremblay JE (2017) Shelf-basin gradients shape ecological phytoplankton niches and community composition in the coastal Arctic Ocean (Beaufort Sea). *Limnology And Oceanography* 62:2113-2132.

Aulanier F, Simard Y, Roy N, Gervaise C, Bandet M (2017) Effects of shipping on marine acoustic habitats in Canadian Arctic estimated via probabilistic modeling and mapping. *Marine Pollution Bulletin* 125:115-131.

Barbier P, Meziane T, Foret M, Tremblay R, Robert R, Olivier F (2017) Nursery function of coastal temperate benthic habitats : New insight from the bivalve recruitment perspective. *Journal of Sea Research* 121:11-23.

Barret L, Miron G, Ouellet P, Tremblay R (2017) Settlement behavior of American lobster (*Homarus americanus*) : effect of female origin and developmental temperature. *Fisheries Oceanography* 26:69-82.

Berdalet E, Montresor M, Reguera B, Roy S, Yamazaki H, Cembella A, Raine R (2017) Harmful Algal Blooms in Fjords, Coastal Embayments, and Stratified Systems Recent Progress and Future Research. *Oceanography* 30:46-57.

Blais M, Ardyna M, Gosselin M, Dumont D, Belanger S, Tremblay JE, Gratton Y, Marchese C, Poulin M (2017) Contrasting interannual changes in phytoplankton productivity and community structure in the coastal Canadian Arctic Ocean. *Limnology And Oceanography* 62:2480-2497.

Bouhlel Z, Genard B, Ibrahim N, Carrington E, Babarro JMF, Lok A, Flores AAV, Pellerin C, Tremblay R, Marcotte I (2017) Interspecies comparison of the mechanical properties and biochemical composition of byssal threads. *Journal of Experimental Biology* 220:984-994.

Bourgeois S, Archambault P, Witte U (2017) Organic matter remineralization in marine sediments : A Pan-Arctic synthesis. *Global Biogeochemical Cycles* 31:190-213.

Campbell K, Mundy CJ, Gosselin M, Landy JC, Delaforge A, Rysgaard S (2017) Net community production in the bottom of first-year sea ice over the Arctic spring bloom. *Geophysical Research Letters* 44:8971-8978.

Casse M, Montero-Serrano JC, St-Onge G (2017) Influence of the Laurentide Ice Sheet and relative sea-level changes on sediment dynamics in the Estuary and Gulf of St. Lawrence since the last deglaciation. *Boreas* 46:541-561.

Collins DB, Burkart J, Chang RYW, Lizotte M, Boivin-Rioux A, Blais M, Mungall EL, Boyer M, Irish VE, Masse G, Kunkel D, Tremblay JE, Papakyriakou T, Bertram AK, Bozem H, Gosselin M, Levasseur M, Abbott JPD (2017) Frequent ultrafine particle formation and growth in Canadian Arctic marine and coastal environments. *Atmospheric Chemistry And Physics* 17:13119-13138.

Comeau LA, Mallet A, Carver C, Nadalini JB, Tremblay R (2017) Behavioural and lethal effects of sediment burial on quiescent Eastern oysters *Crassostrea virginica*. *Aquaculture* 469:9-15.

Couillard CM, Ouellet P, Verreault G, Senneville S, St-Onge-Drouin S, Lefaivre D (2017) Effect of Decadal Changes in Freshwater Flows and Temperature on the Larvae of two Forage Fish Species in Coastal Nurseries of the St. Lawrence Estuary. *Estuaries And Coasts* 40:268-285.

- Couturier M, Tommi-Morin G, Sirois M, Rao A, Nozais C, Chaillou G (2017) Nitrogen transformations along a shallow subterranean estuary. *Biogeosciences* 14:3321-3336.
- Crespel A, Dupont-Prinet A, Bernatchez L, Claireaux G, Tremblay R, Audet C (2017) Divergence in physiological factors affecting swimming performance between anadromous and resident populations of brook charr *Salvelinus fontinalis*. *Journal of Fish Biology* 90:2170-2193.
- Daigle RM, Archambault P, Halpern BS, Lowndes JSS, Cote IM (2017) Incorporating public priorities in the Ocean Health Index : Canada as a case study. *Plos One* 12:e0178044.
- De Cesare S, Meziane T, Chauvaud L, Richard J, Sejr MK, Thebault J, Winkler G, Olivier F (2017) Dietary plasticity in the bivalve *Astarte moerchi* revealed by a multimarker study in two Arctic fjords. *Marine Ecology Progress Series* 567:157-172.
- Didier D, Bernatchez P, Augereau E, Caulet C, Dumont D, Bismuth E, Cormier L, Floc'h F, Delacourt C (2017) LiDAR Validation of a Video-Derived Beachface Topography on a Tidal Flat. *Remote Sensing* 9:826.
- Duboc Q, St-Onge G, Lajeunesse P (2017) Sediment records of the influence of river damming on the dynamics of the Nelson and Churchill Rivers, western Hudson Bay, Canada, during the last centuries. *Holocene* 27:712-725.
- Falardeau M, Bouchard C, Robert D, Fortier L (2017) First records of Pacific sand lance (*Ammodytes hexapterus*) in the Canadian Arctic Archipelago. *Polar Biology* 40:2291-2296.
- Ferrari R, Nadeau LP, Marshall DP, Allison LC, Johnson HL (2017) A Model of the Ocean Overturning Circulation with Two Closed Basins and a Reentrant Channel. *Journal of Physical Oceanography* 47:2887-2906.
- Flood RD, Violante RA, Gorgas T, Schwarz E, Gruetzner J, Uenzelmann-Neben G, Hernandez-Molina FJ, Biddle J, St-Onge G (2017) IODP workshop : developing scientific drilling proposals for the Argentina Passive Volcanic Continental Margin (APVCM) - basin evolution, deep biosphere, hydrates, sediment dynamics and ocean evolution. *Scientific Drilling* 22:49-61.
- Gaillard B, Meziane T, Tremblay R, Archambault P, Blacher ME, Chauvaud L, Rysgaard S, Olivier F (2017) Food resources of the bivalve *Astarte elliptica* in a sub-Arctic fjord : a multi-biomarker approach. *Marine Ecology Progress Series* 567:139-156.
- Galindo V, Gosselin M, Lavaud J, Mundy CJ, Else B, Ehn J, Babin M, Rysgaard S (2017) Pigment composition and photoprotection of Arctic sea ice algae during spring. *Marine Ecology Progress Series* 585:49-69.
- Gamboa A, Montero-Serrano JC, St-Onge G, Rochon A, Desiage PA (2017) Mineralogical, geochemical, and magnetic signatures of surface sediments from the Canadian Beaufort Shelf and Amundsen Gulf (Canadian Arctic). *Geochemistry Geophysics Geosystems* 18:488-512.
- Girard JM, Tremblay R, Faucheu N, Heitz M, Deschenes JS (2017) Phycoremediation of cheese whey permeate using directed commensalism between *Scenedesmus obliquus* and *Chlorella protothecoides*. *Algal Research-Biomass Biofuels And Bioproducts* 22:122-126.
- Halverson M, Pawlowicz R, Chavanne C (2017) Dependence of 25-MHz HF Radar Working Range on Near-Surface Conductivity, Sea State, and Tides. *Journal of Atmospheric And Oceanic Technology* 34:447-462.
- Holbach M, Robert R, Miner P, Mingant C, Boudry P, Tremblay R (2017) Effects of hydrodynamic factors on *Pecten maximus* larval development. *Aquaculture Research* 48:5463-5471.

- Hussiere R, Levasseur M, Lizotte M, Tremblay JE, Mol J, Thomas H, Gosselin M, Starr M, Miller LA, Jarnikova T, Schuback N, Mucci A (2017) Impact of ocean acidification on Arctic phytoplankton blooms and dimethyl sulfide concentration under simulated ice-free and under-ice conditions. *Biogeosciences* 14:2407-2427.
- Irish VE, Elizondo P, Chen J, Chou C, Charette J, Lizotte M, Ladino LA, Wilson TW, Gosselin M, Murray BJ, Polishchuk E, Abbatt JPD, Miller LA, Bertram AK (2017) Ice-nucleating particles in Canadian Arctic sea-surface microlayer and bulk seawater. *Atmospheric Chemistry And Physics* 17:10583-10595.
- Jennings AE, Andrews JT, Cofaigh CO, St Onge G, Sheldon C, Belt ST, Cabedo-Sanz P, Hillaire-Marcel C (2017) Ocean forcing of Ice Sheet retreat in central west Greenland from LGM to the early Holocene. *Earth And Planetary Science Letters* 472:1-13.
- Johansson ML, Chaganti SR, Simard N, Howland K, Winkler G, Rochon A, Laget F, Tremblay P, Heath DD, MacIsaac HJ (2017) Attenuation and modification of the ballast water microbial community during voyages into the Canadian Arctic. *Diversity And Distributions* 23:567-576.
- Lajeunesse P, Sinkunas B, Morissette A, Normandeau A, Joyal G, St-Onge G, Locat J (2017) Large-scale seismically-induced mass-movements in a former glacial lake basin : Lake Temiscouata, northeastern Appalachians (eastern Canada). *Marine Geology* 384:120-130.
- Le Francois NR, Sheehan E, Desvignes T, Belzile C, Postlethwait JH, Detrich HWI (2017) Characterization and husbandry of wild broodstock of the blackfin icefish Chaenocephalus aceratus (Lonnberg 1906) from the Palmer Archipelago (Southern Ocean) for breeding purposes. *Polar Biology* 40:2499-2516.
- Lesage V, Omrane A, Doniol-Valcroze T, Mosnier A (2017) Increased proximity of vessels reduces feeding opportunities of blue whales in the St. Lawrence Estuary, Canada. *Endangered Species Research* 32:351-361.
- Lopez E, Olivier F, Grant C, Archambault P (2017) A new species and four new records of sedentary polychaetes from the Canadian High Arctic. *Journal of the Marine Biological Association of the United Kingdom* 97:1685-1694.
- Magesky A, Belzile C, Pelletier E (2017) Cell mediated immune response of postmetamorphic sea urchin juveniles against infectious stages of diatom *Cylindrotheca closterium* (Bacillariophyceae). *Journal of Invertebrate Pathology* 148:124-128.
- Magesky A, de Oliveira Ribeiro CA, Beaulieu L, Pelletier E (2017) Silver Nanoparticles And Dissolved Silver Activate Contrasting Immune Responses And Stress-Induced Heat Shock Protein Expression in Sea Urchin. *Environmental Toxicology And Chemistry* 36:1872-1886.
- Makela A, Witte U, Archambault P (2017) Benthic macrofaunal community structure, resource utilisation and trophic relationships in two Canadian Arctic Archipelago polynyas. *Plos One* 12:e0183034.
- Makela A, Witte U, Archambault P (2017) Ice algae versus phytoplankton : resource utilization by Arctic deep sea macrofauna revealed through isotope labelling experiments. *Marine Ecology Progress Series* 572:1-18.
- Marchese C, Albouy C, Tremblay JE, Dumont D, D'Ortenzio F, Vissault S, Belanger S (2017) Changes in phytoplankton bloom phenology over the North Water (NOW) polynya : a response to changing environmental conditions. *Polar Biology* 40:1721-1737.
- Marcoux M, Ferguson SH, Roy N, Bedard JM, Simard Y (2017) Seasonal marine mammal occurrence detected from passive acoustic monitoring in Scott Inlet, Nunavut, Canada. *Polar Biology* 40:1127-1138.

Marmen MB, Kenchington E, Ardyna M, Archambault P (2017) Influence of seabird colonies and other environmental variables on benthic community structure, Lancaster Sound Region, Canadian Arctic. *Journal of Marine Systems* 167:105-117.

Mejri S, Tremblay R, Lambert Y, Audet C (2017) Assessing fatty acid remodelling during embryogenesis in Greenland halibut (*Reinhardtius hippoglossoides*) exposed to hypoxia. *Marine Biology* 164:5.

Mejri S, Tremblay R, Vandenberg G, Moren M, Ben Khemis I, Audet C (2017) Differences in nutrient content of eggs and larvae as indicators for improvement of broodstock nutrition in walleye (*Sander vitreus*) production. *Canadian Journal of Zoology* 95:299-310.

Mohammadpour G, Gagne JP, Larouche P, Montes-Hugo MA (2017) Optical properties of size fractions of suspended particulate matter in littoral waters of Quebec. *Biogeosciences* 14:5297-5312.

Mungall EL, Abbatt JPD, Wentzell JJB, Lee AKY, Thomas JL, Blais M, Gosselin M, Miller LA, Papakyriakou T, Willis MD, Liggio J (2017) Microlayer source of oxygenated volatile organic compounds in the summertime marine Arctic boundary layer. *Proceedings of the National Academy of Sciences of the United States of America* 114:6203-6208.

Murphy HM, Fisher JAD, Le Bris A, Desgagnes M, Castonguay M, Loher T, Robert D (2017) Characterization of Depth Distributions, Temperature Associations, and Seasonal Migrations of Atlantic Halibut in the Gulf of St. Lawrence using Pop-Up Satellite Archival Tags. *Marine And Coastal Fisheries* 9:341-356.

Ngoc-Nu Mai-Thi, St-Onge G, Tremblay L (2017) Contrasting fates of organic matter in locations having different organic matter inputs and bottom water O₂ concentrations. *Estuarine Coastal And Shelf Science* 198:63-72.

Normandeau A, Dietrich P, Lajeunesse P, St-Onge G, Ghienne JF, Duchesne MJ, Francus P (2017) Timing and controls on the delivery of coarse sediment to deltas and submarine fans on a formerly glaciated coast and shelf. *Geological Society of America Bulletin* 129:1424-1441.

Pavey SA, Laporte M, Normandeau E, Gaudin J, Letourneau L, Boisvert S, Corbeil J, Audet C, Bernatchez L (2017) Draft genome of the American Eel (*Anguilla rostrata*). *Molecular Ecology Resources* 17:806-811.

Pequin B, Mohit V, Poisot T, Tremblay R, Lovejoy C (2017) Wind drives microbial eukaryote communities in a temperate closed lagoon. *Aquatic Microbial Ecology* 78:187-200.

Prasetya FS, Comeau LA, Gastineau R, Decottignies P, Cognie B, Morancais M, Turcotte F, Mouget JL, Tremblay R (2017) Effect of marennin produced by the blue diatom *Haslea ostrearia* on behavioral, physiological and biochemical traits of juvenile *Mytilus edulis* and *Crassostrea virginica*. *Aquaculture* 467:138-148.

Prasetya FS, Decottignies P, Barille L, Gastineau R, Jacquette B, Figiel A, Morancais M, Tremblay R, Mouget JL, Cognie B (2017) Cell size-based, passive selection of the blue diatom *Haslea ostrearia* by the oyster *Crassostrea gigas*. *Journal of Molluscan Studies* 83:145-152.

Rao A (2017) CARBON CYCLE New pathways in the sand. *Nature Geoscience* 10:2-3.

Remillard AM, St-Onge G, Bernatchez P, Hetu B, Buylaert JP, Murray AS, Lajeunesse P (2017) Relative sea-level changes and glacio-isostatic adjustment on the Magdalen Islands archipelago (Atlantic Canada) from MIS 5 to the late Holocene. *Quaternary Science Reviews* 171:216-233.

Ren X, Zhao X, Turcotte F, Deschenes JS, Tremblay R, Jolicoeur M (2017) Current lipid extraction methods are significantly enhanced adding a water treatment step in Chlorella protothecoides. *Microbial Cell Factories* 16:26.

Richards K, Mudie P, Rochon A, Athersuch J, Bolikhovskaya N, Hoogendoorn R, Verlinden V (2017) Late Pleistocene to Holocene evolution of the Emba Delta, Kazakhstan, and coastline of the north-eastern Caspian Sea : Sediment, ostracods, pollen and dinoflagellate cyst records. *Palaeogeography Palaeoclimatology Palaeoecology* 468:427-452.

Sansoucy M, Tremblay R, Marcotte I (2017) Comparative Proteomics on Mytilidae Species Revealing Potential Byssus-Related Proteins using 2D-LC-MS/MS. *Protein Science* 26:168-169.

Schofield O, Saba G, Coleman K, Carvalho F, Couto N, Ducklow H, Finkel Z, Irwin A, Kahl A, Miles T, Montes-Hugo M, Stammerjohn S, Waite N (2017) Decadal variability in coastal phytoplankton community composition in a changing West Antarctic Peninsula. *Deep-Sea Research Part I-Oceanographic Research Papers* 124:42-54.

Simo-Matchim AG, Gosselin M, Poulin M, Ardyna M, Lessard S (2017) Summer and fall distribution of phytoplankton in relation to environmental variables in Labrador fjords, with special emphasis on *Phaeocystis pouchetii*. *Marine Ecology Progress Series* 572:19-42.

Song G, Li Y, Hu S, Li G, Zhao R, Sun X, Xie H (2017) Photobleaching of chromophoric dissolved organic matter (CDOM) in the Yangtze River estuary : kinetics and effects of temperature, pH, and salinity. *Environmental Science-Processes & Impacts* 19:861-873.

Song G, Xie H (2017) Spectral efficiencies of carbon monoxide photoproduction from particulate and dissolved organic matter in laboratory cultures of Arctic sea ice algae. *Marine Chemistry* 190:51-65.

Sonier R, Tremblay R, Olivier F, Meziane T, Comeau LA (2017) Cultured eastern oysters (*Crassostrea virginica*) : retention and assimilation of picophytoplankton using a multi-biomarker approach. *Aquatic Living Resources* 30:UNSP 31.

Sutherland BJG, Rico C, Audet C, Bernatchez L (2017) Sex Chromosome Evolution, Heterochiasmy, and Physiological QTL in the Salmonid Brook Charr *Salvelinus fontinalis*. *G3-Genes Genomes Genetics* 7:2749-2762.

Thyrring J, Tremblay R, Sejr MK (2017) Importance of ice algae and pelagic phytoplankton as food sources revealed by fatty acid trophic markers in a keystone species (*Mytilus trossulus*) from the High Arctic. *Marine Ecology Progress Series* 572:155-164.

Tulk FJ, Cadigan NG, Brattey J, Robert D (2017) Spatial synchronicity in recruitment of Atlantic cod (*Gadus morhua*) stocks off Newfoundland and Labrador and the Flemish Cap. *Fisheries Research* 191:49-59.