

TOPICAL SESSIONS AT A GLANCE
TUESDAY, 12 DECEMBER (13:30 - 15:00)

Rooms:		202	203	205 BC	206 A	301 A	301 B					
		ECO07 - I. Arctic Marine Mammals and the Complexity of Climate Change	NAV03 - II. Understanding the Impacts of Arctic Shipping and Maritime Traffic: from Plankton to People	EDPOL03 - I. Honoring the Spirit and Intent of Land Claims Co-Management in the Canadian North	REG01 - II. Hudson Bay - Research and Community Linkages	ECO01 - I. Arctic Marine Primary Producers: Bloom Phenology, Production Estimates, and Biogeochemical Processes in an Era of Climate Change	COA05 - II. Physical and Biogeochemical Processes in Arctic Shelf Seas					
Chairs:		Melissa McKinney, Steve Ferguson and Alysa McCall	Chairs: Jackie Dawson and Alain Dupuis	Chairs: Jamie Snook, Kaitlin Brelon-Honeyman and Vicki Sahanallen	Chairs: Lauren Candlish, David Barber and Zou Zou Kuzyk	Chairs: C.J. Mundy, Eva Leu and Ane Cecilie Kverrvik	Chairs: Céline Guéguen, Zou Zou Kuzyk and Robie Macdonald					
13:30	Steve Ferguson	Findings and recommendations on Arctic marine mammals from the state of the Arctic Marine Biodiversity Report	Kimberly Howland	Domestic shipping: A potential vector for transport of nonindigenous species to Canadian Arctic waters?	Jamie Snook	A systematic realist review of the Canadian land claims co-management board literature	Janghan Lee	Nutrient dynamics in the Hudson Bay	C.J. Mundy	Emerging physical and biological properties in a new Arctic ice regime	Alexandre Forest	Physical and biological processes at the margin of the Mackenzie Shelf: A summary of salient results from mooring-based observations over 2009-2017
13:45	Jody Reimer	Synthesizing existing knowledge of ringed seal demography to highlight knowledge gaps and prioritize future research	Julla Olsen	Consequences of increasing shipping in the Barents region on local adaptive capacity	Lindsay Staples	Regime shift: wildlife co-management and institutional reboot	Loic Jacquemot	Microbial diversity across the Hudson Bay: a river to sea continuum	Nicolas Mayot	Spatiotemporal variabilities of phytoplankton activity in the Greenland Sea	Sohidul Islam	Effects of photolytic and microbial degradation of dissolved organic matter in the Hudson Bay watershed
14:00	Henry Huntington	Evaluating the effects of climate change on Indigenous marine mammal hunting in Northern and Western Alaska using traditional knowledge	Jesica Goldsmit	Assessing the ecological risk on predicted ship-mediated invasions in the Canadian Arctic	Vic Gillman	Three decades of fisheries co-management in the western Arctic	Sarah Schembri	Biodiversity, distribution and biomass of fish in Hudson Bay	Armelle Galine Simo Matchim	Challenging <i>Phaeocystis pouchetii</i> against diatoms during the summer bloom of phytoplankton in Labrador fjords (Eastern Canada): implications for the system productivity	Urs Neumeier	Coastal oceanography project for the eastern James Bay (northern Quebec, Canada)
14:15	Stephen Petersen	Harbour seals (<i>Phoca vitulina</i>) in the Churchill River Estuary: Increased abundance coincident with decreasing sea ice conditions in western Hudson Bay	William Halliday	Shipping in the western Canadian Arctic: Potential impacts on marine mammals in marine protected areas and possible management solutions	Gregor Gilbert	Wildlife co-management under the James Bay & Northern Quebec Agreement: Forty-two years of frustration	Rajrantra Lihare	Hydrologic sensitivity of the Lower Nelson River Basin to lakes, wetlands and frozen ground	Eva Leu	Phenology studies of Arctic sea ice algal and phytoplankton blooms in two model fjord ecosystems: A key to a mechanistic understanding of major environmental drivers?	Michel Gosselin	The influence of environmental factors on eelgrass distribution in eastern James Bay
14:30	Kevin Scharffenberg	Passive acoustic monitoring to identify drivers of beluga whale habitat use in the Mackenzie Estuary			Robert Moshenko	Early successes in the management of wildlife in three Arctic coastal aboriginal co-management boards	Andrew Tefs	Simulating effects of Nelson-Churchill River regulation controls on freshwater exports to Hudson Bay	Nadja Steiner	Progress in modelling coupled sympagic-pelagic ecosystems in the Canadian Arctic	Zou Zou Kuzyk	Community-driven research on freshwater dynamics in the coastal domain of Southeast Hudson Bay and East James Bay
14:45	Alysa McCall	Using technology to monitor polar bear (<i>Ursus maritimus</i>) behaviour, track movements, mitigate conflict, and support public outreach efforts in a changing Arctic			Bindu Panikkar	"Litigation is our last resort": The role of legal pluralism in movements for indigenous sovereignty, environmental justice, and the rights of nature	Scott Pokorny	Meteorological forcing standardization for multi-model uncertainty assessment of the Lower Nelson River Basin	Letizia Tedesco	Sea-ice phenology in a warmer Arctic		

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		ECO12 - I. Pagophyllia in a World Without Ice: Ecology of Ice-Associated Wildlife in the 21st Century	COA01 - II. Glacier Change and Ice-Ocean Interaction	ECO09 - I. Rapid Changes in Extreme Environments: The High Arctic	CBIK06 - II. Community-Based Research as a Circum-Arctic Strategy for Sustainable Adaptation Planning	HUM06 - II. Vulnerability, Adaptation and Resilience to Climate Change in the Arctic				
Chairs:		Kyle Elliott, George Divoky and Christophe Barbraud	Chairs: Derek Mueller and Luke Copland	Chairs: Greg Henry and Warwick Vincent	Chairs: Louis-Philippe Roy, Alevlina Evgrafova and Elena Kuznetsova	Chairs: Tristan Pearce and James Ford				
13:30	Tiphaine Jeanniard-Dot	Learning to forage in the North: distribution and ontogeny of foraging of newly weaned hooded seal pups	Ashley Dubnick	The biogeochemistry at the base of Arctic glaciers	Luke Copland	Rapid recent changes to glacial environments in the Canadian High Arctic	Richard Nesbitt	"One Voice" to Monitor Northern Canada's Freshwater Aquatic Environment: A method using Inuit Qaujimajuaqangit and Western Science in Conjunction	Yves Thériault and B. Linaker	Fostering a bottom-up approach to climate change adaptation
13:45	George Divoky	Was the 2017 breeding season a tipping point for Mandt's Black Guillemot in Alaska? An ice-associated seabird continues to struggle in a melting Arctic	Jill Rajewicz	Channelized freshwater drainage beneath Milne Ice Shelf, Ellesmere Island, Nunavut	Ross Brown	Climate variability and change in the Canadian High Arctic	Natasha Thorpe and Mary Avalak	When research goals float downstream: Adaptive integrated community research at an Arctic Char Elder-Youth Camp	Jennifer Spence	Institutional dimensions of Northern adaptation to climate change: The Canadian case
14:00	Thomas Lazarus	How do thick-billed murres cope with the loss of its major pagophylic prey, the Arctic cod?	Andrew Hamilton	Modification and variability of ocean properties in a High Arctic ice shelf fjord: Milne Fiord, Ellesmere Island	Benjamin Lange	Assessing the ecological consequences of losing the Last Ice Area	Brent Parsons	Identification, characterization and prioritization of degraded fish habitat in the Kitikmeot Region of Nunavut	Melanie Flynn	Key principles and challenges for effective knowledge mobilization with Arctic communities
14:15	Erin Brown	Diving behaviour of Black Guillemots when prey switching in a changing Arctic environment	Abigail Dalton	Iceberg production and characteristics at the termini of tidewater glaciers around the Prince of Wales Icefield, Ellesmere Island	Scott Lamoureux	Watershed impacts from permafrost change and disturbance in the High Arctic	Malik Awan	Estimates of wolverine density from mark-recapture DNA sampling, Aberdeen Lake, Kivalliq Region, Nunavut	Dessislav Sabev	Social Dimensions of Climate Change. Examples from the Barents Region
14:30	Shannon Whelan	Contrasting effects of ocean warming on pagophylic versus non-pagophylic seabirds	Derek Mueller	A computationally efficient finite element model to simulate large scale fracture in ice island	Paschale Noël Bégin	Littoral zones in the High Arctic lakes and the implications of ice cover loss	Lynda Orman	Baffin Island Barren-Ground Caribou (<i>Rangifer tarandus groenlandicus</i>): A case study in Inuit co-management under the Nunavut Land Claims Agreement, Canada	Maryann Fidel	Institutions to empower Indigenous Peoples for successful adaptive action – A case study of Tribal Conservation Districts
14:45	Kyle Elliott	Does mercury interfere with thick-billed murres' ability to respond to ice disappearance at their southern range limits in the Canadian Arctic?			Myriam Labbé	Micro-parasites from the past: a portrait of viruses in ancient Arctic seawater			Nathan Dos Santos Debortoli	A systems network approach for climate change vulnerability assessment

**TOPICAL SESSIONS AT A GLANCE
TUESDAY, 12 DECEMBER (15:30 - 17:00)**

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		ECO07 - II. Arctic Marine Mammals and the Complexity of Climate Change	COA07 - I. Atmospheric Processes and Interfaces in the Arctic	EDPOL03 - II. Honoring the Spirit and Intent of Land Claims Co-Management in the Canadian North	REG01 - III. Hudson Bay - Research and Community Linkages	ECO01 - II. Arctic Marine Primary Producers: Bloom Phenology, Production Estimates, and Biogeochemical Processes in an Era of Climate Change	ECO04 - I. Studying Trophic Interactions in Arctic Ecosystems					
Chairs:		Melissa McKinney, Steve Ferguson and Alysa McCall	Chairs: Zen Mariani	Chairs: Kaley A. Walker, Emma Mungall and Aleksandr Huzly	Chairs: Jamie Snook, Kaitlin Brelon-Honeyman and Vicki Sahanatien	Chairs: Lauren Candlish, David Barber and Zou Zou Kuzyk	Chairs: C.J. Mundy, Eva Leu and Ane Cecilie Kvernvik	Chairs: Jennifer Provencher and David Yurkowski				
15:30	Justine Hudson	Snot For Science: Using respiratory condensate to measure stress levels in Western Hudson Bay belugas (<i>Delphinapterus leucas</i>)		The Canadian Arctic Weather Science Project	David Lee	Inuit Qaujimatuaqangit and wildlife co-management: Recognizing Inuit systems of wildlife management that contribute to the conservation of wildlife and protection of wildlife habitat	Tricia Stadnyk	A changing freshwater regime in the Hudson Bay drainage Basin	Jean-Eric Tremblay	Changing nutrient availability and marine biological productivity in the Baffin Bay/Labrador Sea complex	Barbara de Moura Neves	Towards a better understanding of the trophic ecology of northern deep-water soft corals (Cnidaria: family Nephtheidae)
15:45	Jennifer Bourque	Decadal-scale changes in the feeding ecology of Alaskan polar bears	William Ward	Winds and waves in the Arctic upper atmosphere	Sarah Lloyd, Krista Hynes and E. Lea	Dolly Varden co-management in the Gwich'in Settlement Area and Inuvialuit Settlement Region: Community-led decision-making for sustainable management of vulnerable fisheries	Kyle Elliott	Seabird responses as Hudson Bay switches from an Arctic to sub-Arctic ecosystem	Simon Bélanger	Are phytoplankton blooms of the sub-arctic seas of the North Atlantic controlled by boundary current eddies?	Thew Suskiewicz	Herbivory from the Canadian arctic to the Gulf of St. Lawrence: Kelp consumption rates of the green sea urchin.
16:00	Wesley Oglfio	Diet and isotopic niche overlap between two Arctic phocids in Cumberland Sound, Nunavut	Jean-Pierre Blanchet	Essential results from a 10-Year research on aerosols, polar clouds, precipitation, and radiation interactions	Mark Basterfield	The evolution of Beluga management in the Nunavut Marine Region: Moving towards co-production of knowledge.	Ashley Gaden	IRIS 3: Contaminants in Hudson Bay	Karley Campbell	Controls of sea ice algal and bacterial production in Dease Strait of the Northwest Passage	David Yurkowski	Abundance and species diversity hotspots of tracked marine predators across the Arctic
16:15	Melissa McKinney	Towards quantitative estimation of killer whale diets using blubber fatty acid signatures	Norm O'Neill	Analysis of remotely sensed, aerosol-cloud interaction over the Arctic	Vicki Sahanatien	Climate change and marine species: a looming challenge for wildlife management boards	Alain Tremblay	Eyouy itchee eelgrass research project, James Bay east coast	Laura Dalman	Tidal straits as hotspots for ice algal production: A case study in the Kitikmeot Sea	Nicolas Lecomte	Large-scale ecological drivers of arctic predator biodiversity
16:30			Patrick Hayes	Characterization of aerosol size distributions and optical properties in the Canadian High Arctic using surface and columnar observations		Facilitated & participatory discussion What do you envision as the future of land claims co-management, and what will our roles be?	Zou Zou Kuzyk	Integrated Regional Impact Study (IRIS) of the greater Hudson Bay marine region: Foxe Basin, Hudson Bay, James Bay, and Hudson Strait	Ane Kvernvik	Large differences in ecophysiological responses to combined stress by high light and ocean acidification in sympagic and pelagic Arctic diatom species		
16:45			Robert Sica	Towards developing a near real-time volcanic ash and forest fire smoke tracking and alert system in Canada using a network of cellometers			Joel Heath and L. Arragutainaq	The Inaugural Hudson Bay Summit (Winter 2018): Towards coordinated environmental stewardship for the greater Hudson Bay/James Bay region through formation of a Hudson Bay Consortium	Martine Lizotte	The Arctic hydrosphere-cryosphere complex: A dynamic nexus of biogenic dimethylsulfide production during summer		

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		SUD01 - I. Extractive Industries and Sustainable Livelihoods in the Arctic	MON03. Arctic Observing System and Techniques	ECO09 - II. Rapid Changes in Extreme Environments: the High Arctic	CBIK05 - I. Strong Research Communities – Research Developed for and by the North	HUM06 - III. Vulnerability, Adaptation and Resilience to Climate Change in the Arctic				
Chairs:		Stephan Schott, Dag Avango and Thierry Rodon	Chairs: Marilbeth Murray and Rysgaard Soeren	Chairs: Greg Henry and Warwick Vincent	Chairs: Scot Nickels and Amos Hayes	Chairs: Tristan Pearce and James Ford				
15:30	Julie Fortin	Asymmetrical power relationships and public influence within evaluation and authorization processes of mining projects in Northern Quebec: What place for free, prior and informed consent?	Oyvind Hegrehaes and Nick Burchill	Hydrographic under-ice surveying using the MUNIN ALUV and Single-Beacon Navigation	Greg Henry	Vegetation change in the Canadian High Arctic: potential, constraints and evidence	Jean-Sébastien Moore and Richard Espakohak	Learning together - Comparison of Inuit Qaujimatuaqangit and scientific evidence yields insights into Arctic char biology in the Kitikmeot region of Nunavut	Dylan Clark	Mapping transportation system vulnerabilities to climate change across the Canadian Arctic
15:45	Thierry Rodon	Power-less or power-full? Indigenous land claims agreement and resource development in the Canadian Arctic	Richard Hann	Opportunities and challenges for Unmanned Aerial Vehicles (UAVs) in the Arctic	Zoe Panchen	High Arctic phenology: Climate change impacts and responses	Maia Hoeberechts	Looking back and looking ahead: Changing sea-ice in Cambridge Bay, Kugluktuk, and Gjoa Haven	Elizabeth Nyman	Climate change, disasters and community resilience in light of uncertain responsibility coordination – the case of Svalbard avalanches
16:00	Anteneh Belayneh	Mining in the Canadian Sub-arctic: Where are the benefits going?	Eric Rehm	Comparing fluorescent and differential absorption LIDAR techniques for detecting macroalgal biomass with applications to Arctic substrates	Esther Frei	Long-term effects of climate change on functional traits of High Arctic plant species	Amos Hayes	Building Nunavut with communities and vice versa	David Fawcett	Inuit adaptability to changing environmental conditions over an 11-year period: A case study of Ulukhaktok, NT
16:15	Stephan Schott	Inuit businesses' experiences with major mining projects in the Canadian Sub-arctic: How do expectations measure up?	Alice Bradley	Reinforced buoy for in situ microstructure observations during the ice growth season	Florence Lapierre Poulin	Vulnerability of Arctic fox reproductive dens to climate change in the Canadian High Arctic			Vikram Bhatt	Learning from and sharing with the native North: The case of the Urban Design and Housing Studio, McGill School of Architecture
16:30	Francesca Croce and Nathan Cohen-Fournier	What is an Inuit business? A comparative analysis between the Inuit regions of Canada	Geir Johnsen	Use of optical sensors to identify, map and monitor phyto- and zooplankton	Yoo Kyung Lee	Contrasting successional trajectory of microbial community convergence between two glacier forelands of the High Arctic			Jacqueline Middleton	How do changes in weather, season, and climate impact Inuit mental health in Nunavut?
16:45					Alevtina Evgrafova	Small-scale spatial patterns of soil organic carbon and macro-nutrients in northern Siberian permafrost-affected soils			Joanna Petrasek MacDonald and Darryl Haviolyak	Identifying and implementing adaptation measures for river erosion in Kugluk Territorial Park, Nunavut

TOPICAL SESSIONS AT A GLANCE
WEDNESDAY, 13 DECEMBER (10:30 - 12:00)

Rooms:		202	203	205 BC	206 A	301 A	301 B					
		ECO10 - I. Climate Change Impacts on Arctic Freshwater Systems	MON06 - I. Monitoring, Modeling and Predicting Arctic Biodiversity	SUD04. Toward a Strategy to Address Cumulative Effects of Rapid Arctic Transitions due Infrastructure and Climate (RATIC)	REG04 - I. Adapting to the Changing Arctic - Findings and Recommendations from the Three AMAP Regional Assessments	NAV07. Arctic Tourism	ECO04 - II. Studying Trophic Interactions in Arctic Ecosystems					
Chairs:		Igor Lehnher and Alain Rousseau	Dominique Bertheaux and Pascale Ropars	Peter Schweitzer, Andrey Peltrov and Elena Kuznetsova	Peter Outridge and Mickael Lemay	Jackie Dawson and Machiel Lamers	Jennifer Provencher and David Yurkowski					
10:30	Scott Zolkos	CO ₂ in streams across a rapidly thawing permafrost landscape: not all is lost (to the atmosphere)	Donald McLennan	The Canadian Arctic Observing and Prediction System (CAOPS) – A northern knowledge system to understand and forecast biodiversity change in Canada's North	Rocky Taylor	International Arctic Engineering Collaboration Project: Safety of Industrial Development and Transportation Routes in the Arctic (SITRA)	Jon Fuglestad	Introduction to the Arctic Council Initiative: Adaptation Actions for a Changing Arctic (AAACA)	Pierre-Louis Tétu	Managing marine tourism in the Canadian Arctic: Toward the development of guidelines	Émile Brisson-Curadeau	Detecting the effect of climate change using a diving seabird
10:45	Paul Dainard	Dissolved organic and inorganic carbon dynamics in glacial river systems of the Canadian High Arctic	Isla Myers-Smith	Attribution of ecological change to warming across the tundra biome – a summary of recent data syntheses	Warwick Vincent	Arctic Development and Adaptation to Permafrost in Transition: ADAPT perspectives on permafrost systems	Laura Eerkes-Medrano	Stakeholders and change in the Bering-Chukchi-Beaufort Region	Fabiola Lopez	Formal and "Traditional Rules" to manage cruise ship tourism in the Canadian Arctic, Sirmilik National Park and Bylot Island Migratory Bird Sanctuary	Kathleen MacGregor	Primary productivity and mobile invertebrates in shallow rocky arctic environments: Understudied interactions
11:00	Vincent St. Louis	Microbial activity in the sediments of the world's largest High Arctic lake	Paul Grogan	Greening of the Arctic – Patterns and mechanisms: Has there been significant net growth and areal expansion of birch shrubs across a Canadian continental low arctic landscape over the past decade, and if so, what is the cause?	Sarah Aube-Michaud	Permafrost Study for land use management in Nunavik Communities	Peter Outridge	Drivers and projections of change in the Bering-Chukchi-Beaufort (BCB) Region	Munju Ravindra	Ship shape: managing cruise tourism to Parks Canada sites in Nunavut	Mathieu LeBlanc	Co-distribution of seabirds and their polar cod prey near the ice edge in southern Baffin Bay
11:15	Maria Cavaco	Characterizing microbial communities in a rapidly changing high Arctic watershed	Jeffrey Kerby	Meso-scale Arctic ecology: Leveraging the High Latitude Drone Ecology Network (HILDEN) to address longstanding knowledge gaps	Timo Kumpula	Reindeer pastures under change, landuse and climate induced impacts in Central Yamal peninsula, Russia	Peter Outridge	Arctic Change: Impacts and consequences for Northern communities and society			Cassandra Debets	Individual diet variation of ringed seals (<i>Pusa hispida</i>) in the Belcher Islands, Hudson Bay using chronological whisker isotopic, profiling and satellite telemetry
11:30	Sherry Schiff	Are young fish (14C "old" in the northern most Great Lake: Lake Hazen in the High Arctic?	Guillaume Blanchet	Mapping species distribution in the North	Wendy Loya	Quantification of cumulative changes related to infrastructure and climate within areas of development in Arctic Alaska	Don Lemmen	Adaptation in the Bering-Chukchi-Beaufort region			Cody Dey	Polar bear predation of sealuck nests: Causes, consequences and projections for the future
11:45	Scott Lamoureux	Rapid lake hydrochemical and ecosystem change in high arctic lakes due to permafrost change	Pascale Ropars	Biodiversity and climate change: The future of northern terrestrial ecosystems	Fabrice Calmels	Assessing and monitoring permafrost along the Dempster Highway, YT: Paving the way for an adaptation strategy	Amy Lauren Lovecraft	The role of scenarios in Arctic adaptation			Emily Choy	Bayesian analysis of eastern Beaufort Sea beluga whale inter-annual diet: insights on environmental change
12:00					Olga Povoroznyuk and Peter Schweitzer	Uneven development: infrastructure, population change, and modernization along the Northern Sea Route					Pierre Legagneux	ArcticWEB, a pan-Arctic network to monitor and model Arctic trophic interactions

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		SUD01 - II. Extractive Industries and Sustainable Livelihoods in the Arctic	COA02 - I. Marine Cryosphere: Physical Properties and Processes, and Remote Sensing	NAV08. Arctic Geopolitics and Security	CBK05 - II. Strong Research Communities – Research Developed for and by the North	HUM02 - I. Contaminants in a Changing Arctic				
Chairs:		Stephan Schott, Dag Avango and Thierry Rodon	David Babb and Ryan Galley	Kristin Bartenstein and Daniel-Erasmus Khan	David Scott and Amos Hayes	Jason Stow and Simon Wilson				
10:30	Jonathan Tollefson	Knowledge, sovereignty, and resource extraction in rural Alaska: A case study of the Donlin Gold public comment process	Jack Landy	Utilizing ICESat and Cryosat-2 altimeter data to predict the albedo of Arctic sea ice during summer	Pauline Pic	Arctic security: A shifting paradigm	Megan Sheramata and Pery Tookookook	Inuit knowledge of environmental change over the past 50 years in eastern Hudson Bay: Observations from Umiaq and Kuujuaapik, Nunavik	Mélanie Lemire	Exposure to food chain contaminants in Nunavik: Evaluating spatial and time trends among pregnant women & implementing effective health communication for healthy pregnancies and children
10:45	Sabrina Plante and Thierry Rodon	The relations between mining development, migratory caribou and indigenous economies in northern Quebec	Ellsworth LeDrew	Wavelet decomposition of sea ice trends in the Beaufort Sea and Eastern Canadian Arctic or why is the polar ice disappearing?	Olga Alexeeva	The ongoing but uneasy Sino-Russian cooperation in the Arctic in the BRI era	Pamela Wong	Working with Indigenous Northern communities at the intersection of maps, data, traditional knowledge, and the web	Matthew Little	Selenium, selenoeneine, and methylmercury in marine mammal country foods and Inuit adults: Novel results from Nunavik
11:00	Vincent L'Hérault	Subsistence social-ecological systems in a development context: Hunting pressure affects the condition, behaviour and social structure of tundra wolves	David Babb	Multiyear sea ice loss in the Beaufort Sea: Melt, transport and the transition towards a seasonal ice cover	Gara Thuringer	Unconstrained foreign direct investment: An emerging challenge to Arctic security	Timothy Anaviapik Soule	From Climate Change to water wealth and health: Inuit researchers advancing monitoring capacity for Arctic water systems in Nunavut	Cecile de Serigny	Can migratory birds become contaminated with lead during their migration out of Nunavik? A literature review to address concerns raised by Nunavimmiut
11:15	Micki Baydack	Socio-ecological reclamation in the Northwest Territories: A framework for the healing of the Bathurst caribou range	Ed Ross	High-resolution ice response to wind forcing in the continental margin of the Canadian Beaufort Sea	Julie Babin	Japan's official Arctic policy, which evolutions and opportunities for the Japanese business companies in the Arctic region?	Neil Hutchinson	Water quality monitoring on Baker Lake: Pairing western science data collection and analysis with Traditional Ecological Knowledge	Catherine Girard	The Inuit gut microbiome: Dietary transition and mercury metabolism
11:30	Richard Hann	Cold climate wind energy as a replacement for coal energy in Longyearbyen 78°N	Yanique Campbell	Effect of a storm during the sea ice minimum extent	Pierre-Louis Tétu	Chinese mining activities in the Arctic: Beyond paradoxes and misperceptions	Matt Wallace	Northern-based solutions to Arctic community concerns: Science and Clean Technology development at the Canadian High Arctic Research Station		
11:45					Kristin Bartenstein and Daniel-Erasmus Khan	Half In and Half Out: The End of a Long and Winding Road? – New Dynamics for the European Union's Arctic Ambitions: A German and a Canadian Perspective				

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		ECO10 - II. Climate Change Impacts on Arctic Freshwater Systems	MON06 - II. Monitoring, Modeling and Predicting Arctic Biodiversity	HUM01 - I. One Health in the North	REG04 - II. Adapting to the Changing Arctic - Findings and Recommendations from the Three AMAP Regional Assessments	ECO02 - I. Arctic Marine Primary Producers: The Green Edge Project - Implications of Changing Spring Bloom Dynamics on the Arctic Ecosystem	COA06 - I. Coastal Processes and the Vulnerability of Communities, Resources and Ecosystems					
Chairs:		Igor Lehnher and Alain Rousseau	Dominique Bertheaux and Pascale Ropars	Emily Jenkins and Patrick Leighton	Peter Outridge and Mickael Lemay	Marcel Babin, C. J. Mundy and Jean-Eric Tremblay	Duslin Whalen and Hugues Lantuil					
13:30	Biljana Narancic	Comparison of paleotemperature reconstructions based on the assemblage composition and oxygen isotope ratios of sedimentary diatoms	Johann Wagner	Establishing CHARs as an Arctic flagship research and monitoring site – Summary of work to date, science framework and 2018 implementation plans	Anna Manore	Cryptosporidium and Giardia in clams in Iqaluit, Nunavut	Ross Brown	Climate change in the Baffin Bay/Davis Strait Region	Marcel Babin	Overview on the Green Edge project – Phytoplankton spring bloom in the Arctic Ocean : past, present and future response to climate variations, and impact on carbon fluxes and the marine food web	George Tanski	Permafrost coasts and its nearshore zone rapidly release greenhouse gases
13:45	Kevin Turner	Hydrological responses of a drained thermokarst lake to a decade of intense catchment shrub proliferation in Old Crow Flats, Yukon, Canada	Katrina O'Kane	The importance of local research in community ecology: A case study of vegetation succession in the High Arctic	Stephanie Masina	Surface water quality in Northern Canada: Examining waterborne Giardia and Cryptosporidium in Iqaluit, Nunavut	Thierry Rodon	Socio-economic trends for the Baffin Bay and Davis Strait region (Nunavut and Greenland)	Julien Laliberte	Variations of different environmental components and their impact on light availability for phytoplankton at the Green Edge Site	Ravi Darwin Sankar	The impacts of amplified warming and reduced sea-ice on shoreline variance: A case study from Paulatuk, Canada
14:00	Vaughn Mangal	Dissolved organic matter in Subarctic environments: Revealing molecular changes along the Churchill River and surrounding watershed	Cory Wallace	The influence of <i>Alnus viridis</i> shrub patches on understory vegetation community composition in the low Arctic of the Northwest Territories	Cédric Yansouni	Enteric infections among symptomatic and asymptomatic preschool-age children in Nunavik: Interim results from a prospective cohort study	Thierry Rodon	The challenge of education in the Baffin Bay and Davis Strait region (Greenland and Nunavut)	Lisa Matthes	Characterization of the under-ice light field and availability of photosynthetically active radiation during a sea ice spring melt progression	Antoine Boisson	Emerging coasts of the northwestern Nunavik: characterization, evolution model and implications
14:15	Maxime Wauthy	Carbon composition of dissolved organic matter and zooplankton in circumpolar ponds	Jennifer Baltzer	A global assessment of drivers of post-fire regeneration in boreal forests	Nicholas Bachand	Toxoplasma gondii DNA detected from hunter-harvested wildlife in Nunavik	Thomas Ingeman-Nielsen	Built infrastructure in the Baffin Bay/Davis Strait (BBDS) region	Pierre-Luc Grondin	Melting snow: Unveiling phytoplankton spring blooms	Hugues Lantuil	Nunataryuk: Permafrost thaw and the changing Arctic coast - science for socio-economic adaptation
14:30	Pieter Aukes	How measures of dissolved organic matter quality change from Yellowknife, NT, to Lake Hazen, NU	Sylvain Christin	Impact of climatic perturbations on the phenology of arctic birds: The bioacoustic way	Ursula Strandberg	Walleye length and the lake from where it was caught determine how beneficial and safe it is to consume	Knud Falk	The heart of resilience: Constructing an adaptation plan for Baffin Bay and Davis Strait - part 1, chapter 11	Virginie Galindo	Differences in production regimes of simulated under-ice blooms during Arctic spring	Robert Way	Characteristics and evolution of coastal peatland permafrost in southeastern Labrador, Canada
14:45	Guillaume Grosbols	Understanding food webs in Arctic lakes: Production and transfer of essential fatty acids from plankton to fish	Dominique Fauteux	Evaluation of several methods to monitor lemming abundance: simple can also be good	Emily Jenkins	Food-borne parasites in harvested wildlife in the Canadian North	Clive Tesar	The heart of resilience: Constructing an adaptation plan for Baffin Bay and Davis Strait - part 2, chapter 12	Johann Lavaud	Photophysiological response of bottom-ice microalgal community during spring to summer transition in the Arctic	Matthew Asplin	Synoptic climatology of storm surge events in the Western Canadian Arctic
15:00			Jay Frandsen	Monitoring Ivvavik National Park's grizzly bear (<i>Ursus arctos</i>) occupancy using remote wildlife cameras								

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		ECO12 - II. Pagophila in a World Without Ice: Ecology of Ice-Associated Wildlife in the 21st Century	COA02 - II. Marine Cryosphere: Physical Properties and Processes, and Remote Sensing	ECO06 - I. Marine Biodiversity Discovery in the Arctic	CBIK01 - I. A Focused Look at Traditional Knowledge Integration in the Inuvialuit Settlement Region	HUM02 - II. Contaminants in a Changing Arctic				
Chairs:		Kyle Elliott, George Divoky and Christophe Barbraud	David Babb and Ryan Galley	Philippe Archambault and Evan Edinger	John Lucas Jr., Larry Carpenter and Vic Gillman	Jason Stow and Simon Wilson				
13:30	Ellen Lea	Sea ice, body condition and reproduction in ringed seals in Canada's Western Arctic: An update through 2016	Thomas Zagon	Newfoundland ice conditions: The storms of March and April 2017	Philippe Archambault	Hidden and sensitive: Biodiversity and conservation of Vulnerable Marine Ecosystems in Arctic Canadian waters	Mirjam Held	The many faces of Inuit Qaujimaqtuqangit: A frame analysis	Fei Yue Wang	Mercury contamination in the Canadian Arctic marine ecosystems: How long will it take to recover?
13:45	Stephen Insley	Seasonal patterns in acoustic detections of marine mammals near Sachs Harbour, Northwest Territories	Matthew Ayre	Extending the summer sea ice record for Davis Straits/Baffin Bay through the 19th Century from British Arctic whaling ships' logbooks	Anais Lacoursiere-Roussel	eDNA metabarcoding as a new surveillance tool for coastal Arctic biodiversity	Brenda Parlee	"Telling our own story" - Lessons from 20 years of community-based monitoring in Lutsel K'e Dene first nation, Northwest Territories	Sara Pedro	Changes in forage fish communities in the eastern Canadian Arctic have a limited impact on nutritional quality of the prey base in terms of essential fatty acids, selenium, and selenium:methylmercury ratios
14:00	Emily Choy	Body condition affects oxygen storage capacity and calculated aerobic dive limits in Beaufort Sea beluga whales	Jimmy Poulin	Monitoring sea ice in the vicinity of marine infrastructure in Nunavik, in a climate change context	Dimitri Kalenitchenko	New productivity hotspots fueled by rare marine protists from the Lincoln Sea	Teresa Scassa	Towards a legal framework for the collection and sharing of Inuit knowledge	Igor Lehnher	Long-term changes in atmospheric mercury as recorded in tree-rings in the Yukon and Northwest Territories
14:15	Audrey Le Pogam	Body composition and cold endurance in snow buntings, no need to be well built to endure the cold	Richard Dewey	A real-time and forecast thermodynamic sea-ice model for Cambridge Bay	Marie Pierrejean	The role of biogenic structures on ecosystem functioning in the Eastern Canadian Arctic	Jennifer Smith	Integration of Inuvialuit traditional knowledge of polar bear into management and decision-making	João Canário	Arsenic, cadmium and lead cycling in permafrost thaw lakes
14:30	François Vézina	Post-migration recovery in the high Arctic: shorebirds can digest but they need to make room for food	Heather Kyle	Quantification of calcium carbonate (ikaite) in first- and multi-year sea ice	Joost Verhoeven	The microbiomes of carnivorous sponges from the Canadian Arctic suggest differential involvement of bacterial associates	Pamela Wong	Inuit perspectives of polar bear research: Lessons for community-based collaborations	Kyra St. Pierre	Climate drives catchment-wide changes in mercury cycling in the High Arctic's largest lake (Lake Hazen, Nunavut, Canada)
14:45			Margaux Gourdail	Dimethylsulfide dynamics in first year ice melt ponds in the Canadian Arctic Archipelago	Valérie Cypihot	A quest for the most functionally diverse coastal habitat of Subarctic Canada	Brian Zytaruk	The use of TK in management of issues related to the development of the Inuvik to Tuktoyaktuk Highway	Murray Richardson	Mercury and dissolved organic carbon in eastern Canadian lakes along a 30 degree latitudinal gradient: A cross-ecosystem comparison

TOPICAL SESSIONS AT A GLANCE
WEDNESDAY, 13 DECEMBER (15:30 - 17:00)

Rooms:		202	203	205 BC	206 A	301 A	301 B					
		ECO10 - III. Climate Change Impacts on Arctic Freshwater Systems	COA07 - II. Atmospheric Processes and Interfaces in the Arctic	HUM01 - II. One Health in the North	REG04 - III. Adapting to the Changing Arctic - Findings and Recommendations from the Three AMAP Regional Assessments	ECO02 - II. Arctic Marine Primary Producers: The Green Edge Project - Implications of Changing Spring Bloom Dynamics on the Arctic Ecosystem	COA06 - II. Coastal Processes and the Vulnerability of Communities, Resources and Ecosystems					
		Chairs: Igor Lehner and Alain Rousseau	Chairs: Kaley A. Walker, Emma Mungall and Aleksandr Huzly	Chairs: Emily Jenkins and Patrick Leighton	Chair: Anders Mosbech	Chairs: Marcel Babin, C. J. Mundy and Jean-Eric Tremblay	Chairs: Dustin Whalen and Hugues Lantuit					
15:30	Alain N. Rousseau	Development of a forecasting system to support hydroelectric production in Yukon: Challenges and opportunities associated with implementation of a physically-based distributed hydrological model	Wesley Skeeter	Growing season carbon balance of a Mackenzie River Delta Peatland	André Ravel	Complexity of rabies and other health issues at the human-dog-wildlife interface in Nunavik: A great challenge for the One Health concept!	Aude Leynaert	Diatom in the ice : Key actor in the Si cycle ?	Alice Bradley	A remote sensing approach for estimating sea ice concentration in coastal pixels		
15:45	Jennifer Hickman	Antecedent conditions governing flow in an unregulated arctic watershed and implications for hydroelectric power generation in the Northwest Territories	Maria Belke-Brea	Shrub-induced modification of the grain size of the surface snow layer in fall and the resulting impact on albedo	Stacey Elmore	Evidence for long-term survival of arctic foxes following rabies exposure	Brent Else	Response of the Arctic marine inorganic carbon system to ice algae and under-ice phytoplankton blooms: A case study along the fast-ice edge of Baffin Bay	Ron Vincent	Arctic dust clouds: An investigation of aerosols in the Western Canadian Arctic using satellite imagery		
16:00	Jos Samuel	Evaluation of hydrologic data assimilation and real-time meteorological data to improve flow forecasts	Florent Domine	Snow-climate-vegetation-permafrost feedbacks and the prediction of permafrost thaw	Julie Ducrocq	Can humans develop passive immunity against rabies ? Investigating this hypothesis amongst an Inuit population from Nunavik with a history of hunting and manipulating terrestrial mammals	Panel	Strengths and challenges of the recent Adaptation Actions for a Changing Arctic (AACAA) assessments	Rémi Amiraux	Exacerbation of stress in algae and their attached bacteria in Arctic zones: Why? and consequences?		
16:15	Casey Remmer	Spatial and temporal approaches for monitoring the effect of changes in climate and flooding on hydro-limnological conditions across a northern freshwater delta	Philip Marsh	The Arctic Snow Cover: Integrating high resolution field observations and modelling in order to improve our understanding of past and future changes	Tessa Baker	The provision of annual subsidized veterinary services in five remote communities in the Northwest Territories from 2008-2017: Uptake, impact, and lessons learned	Panelists	Knud Falk (Sweden) Nathia Haas Brandtberg (Greenland) Don Lemmen (Canada) Larry Hinzman (USA) Laverna Klengenberg (Canada)	Philippe Massicotte	Toward a new method to estimate underwater light regime under spatially heterogeneous surface environments in the Arctic	Caroline Coch	Summer rainfall impacts on sediment, solute and DOC fluxes in a small Arctic coastal catchment
16:30	Gabriel Chiasson-Poirier	Linking dominant physical controls on subsurface flow patterns with spatial extent of hydrological connectivity during thaw period, Nuaquung River, Iqaluit, Nunavut	Ally Toure	Quantifying Snow Accumulations Across an Arctic Shrub-tundra Landscape	Alexandra Sawatzky	Integrated environment and health surveillance in the Circumpolar North: A systematic, realist review of the literature			Eric Rehm	Bio-optical observations from the Marginal Ice Zone in Baffin Bay using autonomous platforms	Jacqueline Hung	Spatial and temporal patterns of soil nitrogen availability and carbon exchange in a High Arctic wetland
16:45			Keegan Smith	Estimating the end-of-winter snow accumulation from field measurements and modeling over four years at Iqaluit, Nunavut	Kiley Daley	Assessing exposure pathways and human health risks attributable to wastewater treatment practices in the Canadian Arctic			Audrey Limoges	Changes in diatom productivity and sea-surface conditions in the North Water polynya during the past ca. 3750 years	Dustin Whalen	Monitoring, understanding and predicting coastal change in the Mackenzie-Beaufort Region, NT

Rooms:		302 A	302 B	303 A	303 B	304 AB				
		NAV02. Coordinating Governance Regimes in the North American Arctic: Canada-US Cooperation for Safety, Security, and Stewardship in the Maritime AOR	MON02. Arctic Marine Autonomous Research Platforms and Robotics Applications	ECO06 - II. Marine Biodiversity Discovery in the Arctic	CBIK01 - II. A Focused Look of Traditional Knowledge Integration in the Inuvialuit Settlement Region	HUM02 - III. Contaminants in a Changing Arctic				
		Chairs: Rebecca Pincus and Desmond Raymond	Chairs: Nick Burchill and Asgeir Johan Sørensen	Chairs: Philippe Archambault and Evan Edinger	Chairs: John Lucas Jr., Larry Carpenter and Vic Gillman	Chairs: Jason Stow and Simon Wilson				
15:30	David Seris	Operational Perspective on CAN-US Arctic Maritime Cooperation	Ryan Flagg	Building and operating permanent Arctic Observing Systems	Evan Edinger	Arctic bamboo coral forests as millennium-scale ecosystem engineers	Kathleen Snow	The Inuvialuit settlement region beluga summt: Setting an empowered stage for community traditional knowledge-sharing	Robert Letcher	An assessment of the biological effects of organohalogen and mercury exposure in Arctic wildlife and fish
15:45	Julie Gascon	CAN-US operational coordination in the Arctic maritime	Lisbeth Iversen	INTAROS: Integrated Arctic observation system development under Horizon 2020	Erin Herder	Assessing spatial and temporal change in benthic biodiversity over 50 years in Frobisher Bay	Devin Waugh	Inuvialuit Traditional Ecological Knowledge (TEK) of beluga whale (<i>Delphinapterus leucas</i>) in a changing climate in Tuktoyaktuk, NT	Jennifer Balmer	Current use pesticides of emerging Arctic concern: An updated assessment
16:00	Luc Tremblay	CAN-US Maritime Cooperation in the Arctic	Martina Loebel	Arctic Observatory FRAM	Michelle Brandt	Nearshore seabed habitats and benthic biodiversity, Arctic Bay, Nunavut	Peter Collings	Inuit conceptions of "knowledge" and "ecological knowledge" about beluga whales in Uluksaktok, NT, Canada	Derek Muir	Influence of permafrost disturbances and climate change on temporal series of Polychlorinated Biphenyls (PCBs), organochlorine pesticides and perfluoroalkyl substances in Arctic Char
16:15	Shannon Jenkins	Coordinating governance in the Arctic	Shannon Nudds	Our eyes and ears on the Northwest Passage: DFO's monitoring and real-time observatory in Barrow Strait	Curtis Dinn	The hidden biodiversity of sponges in the Eastern Canadian Arctic - improving our understanding of benthic communities through targeted sampling	Jacqueline Chapman	TSFN harvest study - Characterizing economic, social, and biological factors that influence harvest practices to ensure responsible fisheries development in Gjoa Haven, Nunavut	Jennifer Provencher	Plastics as a vector of contaminants into Arctic food webs
16:30	Luc Brisebois	Legislative cooperation for Arctic maritime governance between Canada and the US	Asgeir J. Sørensen	Arctic operational experience with marine robotics for environmental mapping of seabed, water column and under ice	Brian Lanoll	Upside down you turn me: Differential shift in the composition of bacterial communities from seasonal and perennial sea ice exposed to in-situ disturbance	Jasmine Brewster	Working together to monitor and manage Western Arctic marine protected areas	Gwyneth Anne MacMillan	Not so rare after all: Rare earth elements in freshwater, marine, and terrestrial ecosystems in the eastern Canadian Arctic
16:45	Rachael Lipinski	Legal foundations of CAN-US Arctic maritime cooperation			Francine Mercier	The proposed Tallurutiup Imanga National Marine Conservation Area in Lancaster Sound, Eastern Canadian Arctic. How did we get there and what does it mean for the future?			Ashley Gaden	When you wish upon a (sea) star: Investigating hydrocarbon baselines and bioaccumulation in Baffin Bay
17:00					Martine Giangioppi	Marine ecological conservation for the Canadian Eastern Arctic: A science-based proposal for priority areas and networks			James Telford	Using paleolimnology to establish baseline conditions and trends for contaminants and climate for a community-based aquatic ecosystem monitoring program, Marian Watershed, NWT

SESSION CANCELED

TOPICAL SESSIONS AT A GLANCE
THURSDAY, 14 DECEMBER (10:30 - 12:00)

Rooms:		202	203	205 BC	206 A	301 A	301 B
		ECO03 - I. From Zooplankton to Fisheries: Arctic Marine Food Webs in Seasonally Ice-Covered Seas	MON04 - I. Advancing Data Sharing, Access, and Analysis for Understanding the Arctic	HUM04 - I. Arctic Housing and Community Planning	REG02 - I. TUKISIK - Understanding Nunavik: Collaboration Between Researchers and Local Residents Committed to the Study of the Arctic Socio-Ecological System	NAV01 - I. Access and Use of Weather, Water, Ice and Climate Information for Safe Arctic Navigation	ECO04 - III. Studying Trophic Interactions in Arctic Ecosystems
		Chairs: Louis Fortier, Gérald Darnis and Frédéric Mays	Chairs: Julie Friddeh and Shannon Christoffersen Vossepoel	Chairs: Mylène Riva and Geneviève Vachon	Chairs: Najat Bhiyy, Armelle Decaulne and Laine Chanteloup	Chairs: Gita Ljubicic and Jackie Dawson	Chairs: Jennifer Provencher and David Yurkowski
10:30	Nadja Steiner	Climate change impacts on subsistence fisheries in the Western Canadian Arctic – a case study	Shannon Christoffersen Vossepoel The Canadian consortium for Arctic data interoperability: An initiative for facilitating Canadian Arctic data sharing and analysis	Katherine Kovalick Architectural lessons on foundation building in Van Tat Gwich'in territory. Foundation typologies constructed within this continuous permafrost region and their reciprocal relationships with people, buildings, and the land	Sylvie Blangy and Monique Bernier TUKISIK (OHMI-Nunavik): Understanding together the socio-ecological system in Nunavik	Rebecca Segal Combining remote sensing and community sea ice information to inform safe travel in the Kitikmeot region of Nunavut, Western Canadian Arctic	Laurent Montagnano Free meals for Arctic-nesting shorebirds : can increased productivity lead to positive effects on Arctic-nesting shorebirds?
10:45			Sarah Forté Challenges with historical water quality data for Inuit: a collaborative cumulative effects monitoring program in the Baker Lake watershed	Myriam Blais Vagabond, nomadic house (imagination + construction + experience)	Annie Lamallice Planting seeds in Nunavik: citizen-science conversation on the future of agriculture for Northern food sovereignty	Olivier Ayotte Seaplane Bathymetric Platform	Michaël Bonin Assessing the contribution of migratory caribou to the diet of gray wolves and black bears in northern Quebec and Labrador using stable isotopes
11:00	Victoria Peck	Assessing the sensitivity of pteropods to under-saturated carbonate regimes within the Canadian Arctic	Jan Holstein Announcing a Panarctic Biodiversity Data Warehouse for open access and exploration of biodiversity data	Sami Tannoury Housing design for the Inuit Nunangat communities, a two tier approach: Fast paced (address the housing shortage crisis) and slow paced (research and develop sustainable housing solutions)	P. Piche On the way to developing Northern greenhouses adapted to population and climate: Energy issues	Claude Contois Weather constraints on ships serving coastal settlements in Nunavik, 1993 to 2016	Nicolas Lecomte Spatial variation in arctic hare populations and arctic wolves diet at their northern range limit
11:15	Mathieu LeBlanc	The North Water polynya: A true biological hotspot for polar cod <i>Boreogadus saida</i> recruitment?	Jeff Saarela Realizing the potential of Arctic botanical specimens at the Canadian Museum of Nature: Liberating biodiversity data from cabinets, and (finally) putting it to work	Alain Fournier Inuit Quajimajatuqangit: How involvement of the community of Ikaluktitak (Cambridge Bay), Nunavut, was key in helping generate the architectural design of the Canadian High Arctic Research Station (CHARS)	André Ravel A participatory multicriteria decision analysis to mitigate the entangled complex dog-related human health issues in Nunavik	Natasha Simonee and Jayko Alooloo Equipping northern communities with accessible, understandable, real-time weather and wave information	Guillaume Slevan-Tremblay Impact of lemming grazing on Arctic willows under experimentally reduced predation
11:30	Denis Roy	Local adaptation without reproductive isolation in Greenland halibut (<i>Reinhardtius hippoglossoides</i>): A circumpolar commercial fish species with a reset button	Julia Boike A 20-year record (1998-2017) of permafrost, active layer, and meteorological conditions at a High Arctic permafrost research site (Bayvelva, Spitsbergen): An opportunity to validate remote sensing data and land surface, snow, and permafrost models	Julien Landry and Laurence St-Jean Imagining Inukjuak's future development, a review of Northern planning issues and strategies	Elsa Cengic Pujjunaq: Archaeology and History Project		Claire-Cécile Juhasz Direct and indirect effects of climate on a simplified trophic network in the Arctic tundra
11:45	Marie Gulpin	Krill density requirements and foraging efficiency of Northwest Atlantic blue whales foraging in the Estuary and Gulf of St. Lawrence, Canada			Héloïse Barbel The geoarchaeology of Thule winter dwellings: The taphonomy of a subterranean pit house in a periglacial valley, noting human impact on soil microstratigraphy and chemistry		Mathieu Tetreault The effect of prey abundance and nesting demand on the foraging patterns of Arctic-breeding peregrine falcons (<i>Falco peregrinus tundrius</i>)

Rooms:		302 A	302 B	303 A	303 B	304 AB
		COA04 - I. Periglacial Landscapes, Geocryology and Permafrost	MON05 - I. Arctic Remote Sensing: Improving Arctic Monitoring of Sea Ice, Snow, Glaciers and Permafrost for Wildlife Preservation	ECO13. Arctic Tundra and Vegetation	CBIK09 – The Arctic Inspiration Prize: Celebrating Northern Excellence and Innovation	HUM03 - I. Food Security in the Arctic - From Understanding to Action
		Chairs: Michel Paquette, Daniel Fortier and Scott Lamoureux	Chairs: Benoît Montpetit, Alexandre Langlois and Ludovic Brucker	Chair: Paul Sokoloff	Chair: Michel Allard	Chairs: Chris Furgal, James Ford and Kristeen McTavish
10:30	Ashley Rudy	Landscape sensitivity to thermokarst in Western Canada	Stefan Muckenhuber Sea ice drift from Sentinel-1 SAR imagery	Paul Sokoloff The flora of High Arctic research stations: new collections to monitor long-term change	Kevin Kablutsiak The Arctic Inspiration Prize: encouraging, enabling and celebrating the achievements of Northerners	Noémie Boulanger-Lapointe Berries and berry picking in Inuit Nunangat: Traditions in a changing landscape
10:45	Gonçalo Vieira	Multiscale remote sensing of Sub-Arctic thaw ponds in Eastern Hudson Bay	Jakob Assmann Drone imagery reveals scale mismatch between satellite-observed tundra greenness and on-the-ground vegetation monitoring	Haydn Thomas Changes in plant functional traits across a warming tundra biome: Linking vegetation change to ecosystem function	Eric Solomon Bridging barriers to Inuit youth engagement in locally relevant science and research	Audrey Picard-Lafond Fluorescent sensor for on-site monitoring of food quality in Northern environment
11:00	Samuel Gagnon	Climate change and ecological interactions affecting permafrost temperature regime and ice-wedge activity in the Narsajuaq river valley, Nunavik, Canada	Frederic Grandmont Enabling capacities from optical sensors deployed on highly elliptical orbit over the poles	Zoe Panchen Measuring Arctic plant phenological responses to climate change by substituting an elevation gradient as a proxy for rising temperatures	Lynne McCurdy Improving the lives of children with hearing loss in Nunavut by focusing on better hearing at school	Shari Fox Gearheard The role of community programs in food security: A case study of Iliasiqivik Society in Clyde River, Nunavut
11:15	Michel Paquette	Landforms and snowbank hydrology in the High Arctic: Snow redistribution shapes polar desert landscapes	Mathieu Monfette Inland water quality and community monitoring by means of optical remote sensing data. Application in an Arctic river basin (George River, Nunavik, Canada)	Ulrike Herzschuh Slow treeline response to warming in Northern Siberia: past, present, future	Trevor Bell SmartICE: Expanding sea ice monitoring and information services across the Arctic	Andrew Spring Learning from the past to deal with the future: Building community capitals through knowledge to ensure food security in the Tsá Tué Biosphere Reserve
11:30	Jeff Warburton	The morphology of active layer detachment slides and spatial variations in slope process regimes in the High Arctic		Anastasia Sniderhan Treeline to treeline: Latitudinal variability of black spruce growth dynamics in northwestern Canada	Heather Ochalski and S. Smiler The national strategy on Inuit education: National parent engagement initiative 2013 Arctic Inspiration Prize Laureate Presentation	Chris Furgal The importance of scale in understanding and addressing Arctic food security
11:45				Jennifer Baltzer Topography determines green alder functional traits and water potential but not sap flow on the low arctic tundra, NT		Kristeen McTavish Moving from results to action on food security in Nunatsiavut
12:00				Trevor Lantz Recent increases in white spruce density (1980 and 2016) across treeline in the Tuktoyaktuk Coastlands, NWT		

TOPICAL SESSIONS AT A GLANCE
THURSDAY, 14 DECEMBER (13:30 - 15:00)

Rooms:		202	203	205 BC	206 A	301 A	301 B					
		ECO3 - II. From Zooplankton to Fisheries: Arctic Marine Food Webs in Seasonally Ice-Covered Seas	MON04 - II. Advancing Data Sharing, Access, and Analysis for Understanding the Arctic	HUM04 - II. Arctic Housing and Community Planning	REG02 - II. TUKISIK - Understanding Nunavik: Collaboration Between Researchers and Local Residents Committed to the Study of the Arctic Socio-Ecological System	NAV01 - II. Access and Use of Weather, Water, Ice and Climate Information for Safe Arctic Navigation	ECO14 - I. Arctic Wildlife					
Chairs:		Louis Fortier, Gérard Darnis and Frédéric Maps	Chairs: Julie Friddeil and Shannon Christoffersen Vossepoel	Chairs: Mylène Riva and Geneviève Vachon	Chairs: Najat Bhiyy, Armelle Decaulne and Laine Chanteloup	Chairs: Gita Ljubcic and Jackie Dawson	Chairs: Barbara Vuillaume, Patricia Nash and Cameron Eckert					
13:30	Laurie Emma Cope	Seasonal and interannual variations of somatic growth and reproduction driven by environmental conditions on a sub-arctic krill species <i>Thysanoessa raschii</i> in the Gulf of St. Lawrence	David Arthurs	Polar Thematic Exploitation Platform (Polar TEP)	Gate Soroczan	Northern housing - energy efficient design vs "as occupied" energy use	José Gérin-Lajoie and Hilda Snowball	Academic and community perspectives in a collaborative environmental monitoring program in the George River watershed, Nunavik, Canada	Laura Eerkes-Medrano	Dangerous weather and sea ice and marine shipping: comparing the Northwest passage and the Gulf of Bothnia	Bronwyn Harkness	An assessment of population genomic structure in black guillemots (<i>Cepphus grylle</i>) in North America
13:45	Carin Ashjan	Formation and persistence of a bowhead whale feeding hotspot (krill trap) near Utqiagvik/Barrow Alaska	William Woodley	Northwest Territories Centre for Geomatics: Facilitating data sharing and access	Nelson Pisco	Standing strong: How standards help reduce the vulnerability of Arctic infrastructure and support climate resilient community planning	Guillaume Proulx	The Parc national des Pingualuit: A look over the first Nunavik National Park and its impact on the Kangiqsujaq community	Machiel Lamers	SALIENSEAS: Enhancing the saliency of weather and sea ice services for marine mobility sectors in European Arctic seas	Don-Jean Léandri-Breton	Can predation affect distribution? Arctic-breeding plovers with broader distribution range nest in safer habitat
14:00	Gérald Darnis	Mapping zooplankton distribution in the Canadian Arctic Archipelago using the ArcticNet zooplankton database: 2005-2016	Christine Barnard	Arctic data archiving and dissemination: Development of the environmental data repository Nordicana D	Marie Baron	Housing and community factors associated with healthy aging in Inuit communities in Canada	Laine Chanteloup	Sharing Nuna and Istchee – Sharing the Views of Youth through Short Films	Andrew Arreak	SmartICE: A sea-ice monitoring and information service by communities for communities	Deborah Jenkins	Population structure of caribou in an ice-bound archipelago
14:15	Rubao Ji	Response of Calanus biogeographic boundaries to climate forcing in the Arctic Ocean	Sonia Trentin	Federal Geospatial Platform – Collaborating in making Canadian Open Geospatial Data accessible on the Web	Camille Pepin	Household overcrowding and psychological distress among Nunavik Inuit adolescents: a longitudinal study	Armelle Decaulne	357 observation days on Caribou slope, Lac à l'Eau-Claire, Nunavik	Katherine Wilson	Canadian Ice Service Pilot Project: Ice Information for Northern Emergency Management	Marianne Gagnon	Global heterozygosity positively impact body mass in migratory caribou
14:30	Caroline Bouchard	Larval and adult fish assemblages along the Northwest Passage: The shallow Kitikmeot as a potential zoogeographic barrier	Julie Friddeil	Increasing access to polar data through visualization, collaboration, and policy	Mylène Riva and Karine Perreault	Moving to a new house in Nunavik and Nunavut: Assessing the impacts on changes in housing conditions, health, and well-being	Najat Bhiyy	Development of a small peatland linked to slope dynamics at Wyasakami Lake (Nunavik)	David Arthurs	Polar Code Decision Support System	Barbara Vuillaume	Environmental determinants of survival in migratory tundra caribou
14:45	Maxime Geoffroy	Northward range expansion of boreal species into the Arctic: Further evidences from the polar night					Monique Bernier	Sea-ice research for Arctic resource development and Northern communities at Deception Bay, Nunavik			Erin Prewer	Genomic Insights into <i>Ovibos moschatus</i> (Muskox)

Rooms:		302 A	302 B	303 A	303 B	304 AB				
		COA04 - II. Periglacial Landscapes, Geocryology and Permafrost	MON05 - II. Arctic Remote Sensing: Improving Arctic Monitoring of Sea Ice, Snow, Glaciers and Permafrost for Wildlife Preservation	INT01. International Arctic Science Cooperation	CBIK04 - I. Co-Producing Knowledge of Wildlife Important for Subsistence in a Changing Climate	HUM03 - II. Food Security in the Arctic - From Understanding to Action				
Chairs:		Michel Paquette, Daniel Fortier and Scott Lamoureux	Chairs: Benoît Montpellié, Alexandre Langlois and Ludovic Brucker	Chairs: David Scott and Nicole Biebow	Chairs: Sonja Ostertag, Lisa Loselo and Tristan Pearce	Chairs: Chris Furgal, James Ford and Kristeen McTavish				
13:30	Julien Lebrun	Slope processes and their impact on human infrastructures since AD 1000 in Northeast Iceland	Sabrina Marx	Terrestrial laser scanning for quantifying small-scale vertical movements of the ground surface in Arctic permafrost regions	Katherine Wilson	Implementation of a Pan-Arctic Polar Regional Climate Centre	Catherine Alexandra Gagnon	Linking climate, caribou and indigenous knowledge about meeting needs in Northwestern Canada	Léa Laflamme and Eric Loring	The Nuluaq Project – Mapping Inuit Community-Based Food Security Initiatives
13:45	Jean Holloway	Persistence of permafrost after 55 years of climatic warming and fire disturbance in the sporadic discontinuous zone	Achim Roth	Freeze and Thaw Monitoring of Lake Ice with SAR time series for the winter season 2002/03 (ENVISAT ASAR) and 2015/16 (S1A) in Northern Finland	Nicole Biebow	The EU Arctic Cluster – Implementing the European Arctic Policy and fostering international cooperation	Gita Ljubcic	Inuit knowledge of caribou on and near King William Island, Nunavut: An island overlooked no more	Crystle Michelin and Juliana Flowers	NIKigjavut Nunatsiavutinni-Working to Improve Food Security
14:00	Niels Weiss	Periglacial geomorphology and the permafrost carbon climate feedback	Ivan Sudakov	The geometry and statistics of tundra lakes observed in historical maps and satellite images	Marta Terrado	APPLICATE: a project within the EU Arctic cluster for advanced prediction in Polar regions and beyond	Sonja Ostertag	"That's how we know they're healthy": The inclusion of indigenous knowledge in beluga health monitoring in the Inuvialuit settlement region	Sonia Wesche	Regional-scale food security governance in Inuit settlement areas: Opportunities and challenges in northern Canada
14:15	Paul Overduin	Near-shore permafrost in the Siberia: estimating the rate of subsea permafrost degradation	Alison Beamish	Low Arctic vegetation classification using aerial hyperspectral data in the late season	Peter Schmidt Mikkelsen	ISAFFIK - The Arctic Gateway: Facilitating Arctic scientific collaboration	Kathleen MacMillan	Beluga Whale Body Condition Indicators: Application for use in marine protected areas	Sonia Wesche and Julian MacLean	Addressing food security governance in the Inuvialuit Settlement Region (Western Canadian Arctic) through a collaborative research partnership
14:30	João Canário	Impact of permafrost melting in subarctic region on the Hg cycling in thermokarst pond	Andrew Cunliffe	Monitoring Arctic changes with drones	Volker Rachold	The German Arctic Office - knowledge transfer and information exchange for future-oriented and sustainable Arctic decision making in an Arctic Council observer country	Elizabeth Worden	Changing Human-Beluga Relations and Subsistence Hunting in Aklavik, NT	Lindsay Thackeray	The Role of Policy in Arctic Food (In)security: An Exploratory Case Study in one Inuit region of the Canadian Arctic
14:45	Samuel Stettner	What is the intra-seasonal dynamic of rapid ice-rich permafrost degradation? High spatiotemporal resolution SAR remote sensing introduces new temporal scales in studies of riverbanks in the Lena Delta			Henry Burgess	The UK Arctic office and strengthening UK-Canada research connections: Role, achievements and opportunities	Peter Collings	Technological adaptation and traditional ecological knowledge about beluga whales in Ulukhaktok, NT, Canada	Tiff-Annie Kenny	Climate change and food security in a coastal Arctic community

TOPICAL SESSIONS AT A GLANCE
FRIDAY, 15 DECEMBER (8:30 - 10:00)

Rooms:		202	203	205 BC	206 A	301 A	301 B				
		REG03. Tracking Change - Building Local Capacity to Understand Change		HUM07. Human Health, Well-being and Adaptation		NAV05 - II. Arctic Disaster Risk Reduction		MON08. Climate Information for a Changing Arctic		ECO11. CAFF's Arctic Migratory Bird Initiative, a Flyway Level Approach to Conservation	
Chairs:		Brenda Parlee and Leon Andrew		Chairs: Pierre Ayoelle and David Goldfarb		Chairs: Anne Garland and Liane Benoît		Chairs: Ross Brown and Alain Mailhot		Chairs: Jennifer Provencher, Vicky Johnston and Amie Black	
08:30	José Gérin-Lajoie and Hilda Snowball	IMALIRUIIT - A community-based environmental monitoring program of the George River watershed ecosystem, Nunavik		Mylène Riva, Melody Lynch and Christopher Fletcher	Integrating Inuit community perspectives in the "Community Component" of the Qanullirpitaq? 2017 Nunavik Health Survey	Liane Benoît	A risk-based approach to agriculture in Nunavik	Barry Goodson	Global Cryosphere Watch initiatives to improve Arctic cryospheric information	Courtney Price	Introduction to CAFF's Arctic Migratory Birds Initiative
08:45	Iria Heredia	Understanding socio-ecological changes in Inuvialuit fishing livelihoods and implications for food security: The role of local and traditional knowledge		Elizabeth Serra	Results of the multi-site Nunavut Acute Childhood Gastroenteritis Surveillance Project	Anuska Maton	"I have a question for you, being the scientist that you are" - A case study of insider/outsider relations in disaster risk reduction in Utqiaġvik, Alaska	Nathia Brandtberg	Climate communication in Greenland	Vicky Johnston	The Arctic Migratory Birds Initiative: getting a bigger bang for the conservation buck
09:00	Chelsea Martin	The importance of traditional knowledge for maintaining fishing livelihoods during times of change in the Sahtú Region		David Goldfarb	Impact of implementation of in-territory molecular testing for gastrointestinal pathogens at the Qikiqtani General Hospital, Nunavut	Ed Zebede	Catastrophic power failure in a remote Arctic community - What have we learned?	Caroline Sévigny	Projected changes in the wave and sea ice climate along the coastal Hudson Bay	Jennifer Provencher	CAFF's Arctic Migratory Bird Initiative
09:15	Tracey Proverbs	Socioecological change, access to fish, and individual well-being in Gwich'in communities		Emad Tahir	Characteristics of anemia and iron status and their associations with blood manganese and lead among children aged from 3 to 19 years old from four northern First Nation communities in Quebec	Arshad Khan	Flooding hazard and remote first nation communities: The case of Kashechewan, Northern Ontario	Carl Barrette	Updated climate information for Nunavik and Nunatsiavut IRIS region	Natalie Carter	What should we do with all these Snow Geese? ...Bringing Inuit local knowledge into management of an international wildlife resource
09:30	Joella Hogan	Building capacity for stewardship of the peel river watershed: Tracking change of fish stocks by Nacho Nayak Dun first nation		Sylvia Doody	Our land, our air: TB free together campaign	Anne Garland	Historical Ecology for Risk Management: Coastal Observers of Barrow Community Based Monitoring	Cassandra Elphinstone	Maintaining individuality through scaling with equitable transformation: Applications to long-term phenology rates in tundra plants	Scott Flemming	Climate change isn't the only change: Indirect effects of hyperabundant geese on sympatric-nesting birds
09:45	Jason Ernst	Improving the connectivity of Rigolet using the Inuit-led eNuk application and wireless Mesh Technologies		Yana Korneeva	The psychological safety model of oil and gas workers in the Arctic			Emilia Paula Diaconescu	Climate scenarios for Nunavik and Nunatsiavut based on regional climate model simulations from CORDEX	Amie Black	Incidental seabird Bycatch in the Baffin Bay - Davis Strait region
10:00	Neal Spicer	"Nothing is safe anymore" - risk perceptions of drinking water									Discussion Current and Future Priorities under AMBI: where do we go from here?

Rooms:		302 A	302 B	303 A	303 B	304 AB			
		COA03. Quantifying Thaw Subsidence and Frost Heave in Permafrost Terrain - Bringing Together Multiscale Measurements and Implications for the Future		EDPOL04. Arctic Council, International Scientific Assessments and Informed Decision-Making		SUD05. Megaprojects in the 20th and 21st Century Arctic and Subarctic: Impacts, Governance and Evolving Regulatory Practices		CBIK04 - II. Co-Producing Knowledge of Wildlife Important for Subsistence in a Changing Climate	
Chairs:		Julia Boike and Philip Marsh		Chairs: Sarah Kathok Bourque, Maya Gold and Carolina Caceres		Chairs: Sabrina Peric, Elise Ho-Foong and Whitney Lackenbauer		Chairs: Sonja Ostertag, Lisa Loseto and Tristan Pearce	
08:30	Malek Singer	Quantifying mean surface elevation for small plots with microtopography and vegetation using structure from motion photogrammetry, terrestrial laser scanning and surveying		Ian Trites	The building blocks of informed decision-making: Scientific assessments, reports, and traditional and local knowledge in the work of the Arctic Council	Sabrina Peric	Cultivating the North: "Mile 1019" and the Forgotten History of Agricultural Megaprojects in the North	Aaron Dale	Interdisciplinary knowledge, collaboration, and local leadership through co-management of the Torngat mountains caribou herd
08:45	Jurjen van der Sluis	Permafrost dynamics and infrastructure impacts revealed by Unmanned Aircraft System-derived terrain information		Ross Brown	Overview of findings from "Snow, Water, Ice and Permafrost in the Arctic 2017" (SWIPA 2017) and their implications	Elise Ho-Foong	Considering climate change in Northern and Arctic environmental assessments	Carie Hoover	Integrating multiple perspectives and available data to assess marine indicators in the Inuvialuit Settlement Region
09:00	Stephan Gruber	Predicting liquid water content in permafrost from temperature time series: The importance of a structurally sound model		Kimberly Howland	Arctic Invasive Alien Species Strategy: A new policy for the prevention and mitigation of impacts from invasive alien species	Willow Scobie	Development project review processes in Nunavut: An analysis of the framing of social problems and solutions	Janet Boxwell	Gwich'in Harvest Data Collection Project: Empowering communities to manage their resources through community-based monitoring
09:15	Karlis Rieksts	Open graded crushed rock material and light weight aggregates thermal responses investigation at Røros experimental test site, Central Norway		Derek Muir	The new AMAP Assessment report on Chemicals of Emerging Arctic Concern: Implications for global chemical management	George Stuetz	Key activities of Canada's auditor general re: Arctic affairs and sustainable development	Sonja Ostertag	Co-production of knowledge in beluga monitoring and research in the Inuvialuit Settlement Region
09:30				Simon Wilson	An European Union (EU) initiative in support of International Action on black carbon in the Arctic			Paul McCartney	Exploring the potential for knowledge co-production in the Arctic: Lessons from three case studies in Nunavut, Canada
09:45				Courtney Price	The Conservation of Arctic Flora and Fauna: Actions for Arctic biodiversity, implementing the recommendations of the Arctic Biodiversity Assessment			Natalie Baird	Inuit, oceans and participatory video and arts-based methods in Pangnirtung, Nunavut