

TOPICAL SESSIONS PROGRAM

TUESDAY, DECEMBER 11, 2018

3:30 PM – 5:00 PM

9 Parallel Sessions

POL03.	Arctic Governance and the Private Sector: Challenges and Opportunities	ROOM 201
	<i>Chairs: Mathieu Landriault and Pierre-Louis Têtu</i>	
3:30 PM – 3:45 PM TUE. DEC. 11	Corporate social responsibility standards in the Arctic cruise tourism industry? The role of the Association of Arctic Expedition Cruise Operators in sustainable tourism governance PIERRE-LOUIS TÊTU	
3:45 PM – 4:00 PM TUE. DEC. 11	What role can telecommunications companies play in the development of connectivity in the Arctic? MICHAEL DELAUNAY	
4:00 PM – 4:15 PM TUE. DEC. 11	Renewable capacity limits: why they are implemented and how they impact isolated communities MICHAEL ROSS	
4:15 PM – 4:30 PM TUE. DEC. 11	Regulating maritime occupational health and safety in the Canadian Arctic Gateway DESAI SHAN	
4:30 PM – 4:45 PM TUE. DEC. 11	INGO Legitimacy in the Arctic: The WWF as a Rightful Actor in Arctic Governance DANITA CATHERINE BURKE	
TER04.	Coastal Dynamics in a Changing Climate	ROOM 202
	<i>Chairs: Dustin Whalen and Hugues Lantuit</i>	
3:30 PM – 3:45 PM TUE. DEC. 11	The Complexities of Coastal Retreat in a Permafrost Environment: A long-term geophysical study BRIAN MOORMAN	
3:45 PM – 4:00 PM TUE. DEC. 11	Monitoring the Lena River spring breakup flood in 2013 with TerraSAR-X imagery and the TanDEM-X Digital Elevation Model ACHIM ROTH	
4:00 PM – 4:15 PM TUE. DEC. 11	Modelling the changing storm surge regime as a result of sea ice decline in the Canadian Beaufort Sea MATTHEW ASPLIN	
4:15 PM – 4:30 PM TUE. DEC. 11	Coastal Dynamics in Tuktoyaktuk – complex issues, complex impacts and complex solutions DUSTIN WHALEN	

4:30 PM – 4:45 PM
TUE. DEC. 11 | Hydrographic and biogeochemical conditions in northeastern coastal James Bay and southeastern Hudson Bay during winter and summer of 2016-2017
ALESSIA GUZZI

4:45 PM – 5:00 PM
TUE. DEC. 11 | Rapid CO2 release from eroding permafrost coasts and nearshore waters
GEORGE TANSKI

IHEA07. Meeting the Challenge – Understanding and Taking Action to Promote Food Security in the Arctic **ROOM 203**

Chairs: Chris Furgal, Sonia Wesche and James Ford

3:30 PM – 3:45 PM
TUE. DEC. 11 | Systematic review of factors related to food (in)security status in Nunavik, Quebec
BRITTANY CURRY-SHARPLES

3:45 PM – 4:00 PM
TUE. DEC. 11 | 'Feeding our families; that's what we have been doing for centuries': Inuit women's sharing practices and strategies
MAGALIE QUINTAL-MARINEAU

4:00 PM – 4:15 PM
TUE. DEC. 11 | The Green Iglu: The social, health and economic impacts of a greenhouse in Naujaat and Arviat Nunavut.
JULIE ROBERTSON

4:15 PM – 4:30 PM
TUE. DEC. 11 | Developing key food security skills among Inuit youth: the experience of a pilot project in Nunatsiavut
KRISTEEN MCTAVICH

MAR05. Icebergs and Ice Islands: Calving, Drift and Decay Processes **ROOM 204**

Chairs: Wesley Van Wychen and Derek Mueller

3:30 PM – 3:45 PM
TUE. DEC. 11 | The fate of Petermann ice islands: Using the CI2D3 Database to investigate size distributions and meltwater dispersal after Petermann Glacier calving events
ANNA CRAWFORD

3:45 PM – 4:00 PM
TUE. DEC. 11 | Modelling Greenland icebergs: Their pathways as solid ice and meltwater
INGE DESCHEPPER

4:00 PM – 4:15 PM
TUE. DEC. 11 | Iceberg fracture processes and modelling
ROCKY TAYLOR

4:15 PM – 4:30 PM
TUE. DEC. 11 | Short-term iceberg drift forecasting – theoretical comparison of the deterministic and statistical-plus approaches
DAVID FISSEL

4:30 PM – 4:45 PM
TUE. DEC. 11 | Measurement of sea ice, icebergs and ice islands topography using satellite imagery
IGOR ZAKHAROV

POL06. Identifying and Improving Weather, Water, and Ice Information Services for Safe Arctic Travel **ROOM 209**

Chairs: Gita Ljubicic and Jackie Dawson

3:30 PM – 3:45 PM TUE. DEC. 11	Understanding impacts of weather, climate, and climate change on the physical, cultural and social environments in the North CAROLYN MARSHALL
3:45 PM – 4:00 PM TUE. DEC. 11	Iglulingmiut weather and ice forecasting THEO IKUMMAQ
4:00 PM – 4:15 PM TUE. DEC. 11	Safe Passage: A Polar Knowledge Canada Project on sea ice to improve Arctic marine transportation RICHARD DEWEY
4:15 PM – 4:30 PM TUE. DEC. 11	SmartICE: application of a social enterprise model to the delivery of sea-ice monitoring and information services ANDREW ARREAK
4:30 PM – 4:45 PM TUE. DEC. 11	Crowd-sourced bathymetry in Northern Canada JULIEN DESROCHERS
4:45 PM – 5:00 PM TUE. DEC. 11	Building a weather-ready Alaska CARVEN SCOTT

TECH01.

IEEE Arctic and Northern Ocean Forum – Instrumentation and Autonomous Technologies for the North

ROOM 210

Chairs: Philip Ferguson and Ryan Galley

3:30 PM – 3:45 PM TUE. DEC. 11	Icing Protection Systems for UAVs in the Arctic RICHARD HANN
3:45 PM – 4:00 PM TUE. DEC. 11	A multi-vehicle drone testbed for space systems and remote sensing verification AMIN YAHYAABADI
4:00 PM – 4:15 PM TUE. DEC. 11	Use of automated systems for the study of oceanic dimethylsulfide dynamics in ice-covered and ice-free waters of the Arctic JOANIE ST-ONGE
4:15 PM – 4:30 PM TUE. DEC. 11	IceCube: A nanosatellite concept for Canadian Arctic monitoring JAIME CAMPOS
4:30 PM – 4:45 PM TUE. DEC. 11	On the autonomous measurement of snow density FÉLIX LÉVESQUE-DESROSIERS

TERO1.

Arctic Ecosystems and Wildlife

ROOM 211

Chairs: Jesper Bruun Mosbacher and Jean-Pierre Desforges

3:30 PM – 3:45 PM TUE. DEC. 11	Environmental determinants of adult survival in migratory tundra caribou BARBARA VUILLAUME
3:45 PM – 4:00 PM TUE. DEC. 11	Human disturbance effects and their relative importance compared to natural factors in explaining migratory caribou survival SABRINA PLANTE

- 4:00 PM – 4:15 PM
TUE. DEC. 11 | Hair element profile as a non-invasive indicator of wildlife population demographics
JESPER BRUUN MOSBACHER
- 4:15 PM – 4:30 PM
TUE. DEC. 11 | The influence of changing watersheds on the demographics of traditionally-harvested Arctic muskrats
JEREMY BRAMMER
- 4:30 PM – 4:45 PM
TUE. DEC. 11 | Listening to the songs of the Arctic: large scale monitoring of avian phenology
NICOLAS LECOMTE

KM08. Science Education, Outreach and Communication in the North by Early Career Researchers (ECRs): Success Stories and Challenges **ROOM 212**

Chairs: Catherine Girard, Sophie Dufour-Beauséjour and Gwyneth MacMillan

- 3:30 PM – 3:45 PM
TUE. DEC. 11 | Science Outreach and Youth Engagement in an innovative On-the-Land Camp in the NWT
CAROLYN GIBSON
- 3:45 PM – 4:00 PM
TUE. DEC. 11 | Amplifying voices: Recordings from a radio activity about the land and climate change in Kangiqsujuaq, Nunavik
SOPHIE DUFOUR-BEAUSÉJOUR
- 4:00 PM – 4:15 PM
TUE. DEC. 11 | Stories from Tłı̄chǫ lands: Development of a successful Northern partnership from an early career researcher's perspective
JAMES TELFORD
- 4:15 PM – 4:30 PM
TUE. DEC. 11 | Partnership with Vuntut Gwitchin First Nation for the Old Crow solar project
MICHAEL ROSS
- 4:30 PM – 4:45 PM
TUE. DEC. 11 | Sharing tea in the field: Storytelling and trust-building, the hopes of research in the North
SAMANTHA MCBETH
- 4:45 PM – 5:00 PM
TUE. DEC. 11 | Visualizing changing oceans: Inuit knowledge and participatory video in Panniqtuuq, Nunavut
NATALIE BAIRD
- 5:00 PM – 5:15 PM
TUE. DEC. 11 | Sentinel North International Arctic Field Schools: a transdisciplinary and multicultural experience fostering leadership and innovation
MARIE-FRANCE GÉVRY

POL10. Out of the Cold: The Arctic as a Hotspot of International Politics - Canadian and European Practitioners' Perspectives **ROOM 102**

Chairs: Kristin Bartenstein and Daniel-Erasmus Khan

- 3:30 PM – 3:45 PM
TUE. DEC. 11 | RAMIN MOSCHTAGHI
Head of the Department of Science and Economy of the German Embassy in Canada
- 3:45 PM – 4:00 PM
TUE. DEC. 11 | STEFANO FANTARONI
First Counsellor and Head of the Section of Political and Public Affairs (ad interim)
- 4:00 PM – 4:15 PM
TUE. DEC. 11 | ROBERT KADAS
Deputy Director and Principal Arctic Council Advisor to Canada's Senior Arctic Official

TER10. United Nations Environmental Program Rapid Response Assessment on Coastal ROOM 201**Permafrost***Chairs: Scott Dallimore, Christopher Burn and Pippa Seccombe-Hett*

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| 10:30 AM – 10:45 AM
WED. DEC. 12 | Coastal and offshore permafrost in the southern Beaufort Sea- state of knowledge and appraisal of research needs
SCOTT DALLIMORE |
| 10:45 AM – 11:00 AM
WED. DEC. 12 | UNEP coastal permafrost RRA: research agendas for the terrestrial zone
CHRISTOPHER BURN |
| 11:00 AM – 11:15 AM
WED. DEC. 12 | Permafrost (research) in Canada 2018, a synthesis of observed change
NIELS WEISS |
| 11:15 AM – 11:30 AM
WED. DEC. 12 | Implications of permafrost decay on public infrastructure in the Northwest Territories
SARA BROWN |
| 11:30 AM – 11:45 AM
WED. DEC. 12 | A Mayor's assessment of a community threatened by coastal erosion
MERVEN GRUBEN |
| 11:45 AM – 12:00 PM
WED. DEC. 12 | Introduction to the United Nations Environment Programme Coastal Permafrost Rapid Response Assessment
TIINA KURVITS |

IHEA09. One Health in the North ROOM 202*Chairs: Emily Jenkins and Patrick Leighton*

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| 10:30 AM – 10:45 AM
WED. DEC. 12 | Prevalence of <i>Toxoplasma gondii</i> in beluga and narwhal in Nunavut, Canada, and their potential role in foodborne transmission
BRENT DIXON |
| 10:45 AM – 11:00 AM
WED. DEC. 12 | Infection of eastern Canadian seals with the zoonotic protozoan parasites <i>Toxoplasma</i> , <i>Neospora</i> , and <i>Sarcocystis</i>
SARAH REILING |
| 11:00 AM – 11:15 AM
WED. DEC. 12 | Clams as a source of <i>Toxoplasma gondii</i> in Iqaluit, Nunavut
REBECCA FUNG |
| 11:15 AM – 11:30 AM
WED. DEC. 12 | <i>Toxoplasma gondii</i> and other zoonotic endoparasites in foxes and lynx in Arctic and Subarctic regions of Québec, Canada
ÉMILIE BOUCHARD |
| 11:30 AM – 11:45 AM
WED. DEC. 12 | Role of the nest flea, <i>Ceratophyllus vagabundus vagabundus</i> , as a potential bridge vector for <i>Bartonella henselae</i> transmission between nesting geese and arctic foxes, <i>Vulpes lagopus</i> , in Nunavut, Canada
KAYLA BUHLER |
| 11:45 AM – 12:00 PM
WED. DEC. 12 | Practices to ensure animal welfare in Sámi reindeer husbandry families in Nordland, Norway
MAJKEN PAULSEN |

IHEA07.**Meeting the Challenge – Understanding and Taking Action to Promote Food Security in the Arctic****ROOM 203***Chairs: Chris Furgal, Sonia Wesche and James Ford*

- 10:30 AM – 10:45 AM
WED. DEC. 12 | Assumptions in the delivery and analysis of a common tool used to assess Inuit food security and the implications on understanding for this important public health issue in the North
REBECCA MARTIN
- 10:45 AM – 11:00 AM
WED. DEC. 12 | The role of key characteristics across scales in Inuit household food security status
CHRIS FURGAL
- 11:00 AM – 11:15 AM
WED. DEC. 12 | Food visioning for the future: A methodological approach to strategic planning with Arctic communities
MELANIE FLYNN
- 11:15 AM – 11:30 AM
WED. DEC. 12 | Collaborative research in the Inuvialuit Settlement Region (Western Canadian Arctic): Building the evidence-base for an Inuit Food Security Strategy
SONIA WESCHE
- 11:30 AM – 11:45 AM
WED. DEC. 12 | Understanding food, energy and water systems on subsistence activities to improve country food security in northern Indigenous communities: a new paradigm?
VINAY RAJDEV

MAR02.**Arctic Marine Mammals****ROOM 204***Chairs: Lisa Loseto and Steve Ferguson*

- 10:30 AM – 10:45 AM
WED. DEC. 12 | A review of killer whale (*Orcinus orca*) ecology in a changing Canadian Arctic: research priorities and future directions
KYLE LEFORT
- 10:45 AM – 11:00 AM
WED. DEC. 12 | Trace element and stable isotope analysis elucidate stock structure in a narwhal (*Monodon monoceros*) population with no genetic substructure
CORTNEY WATT
- 11:00 AM – 11:15 AM
WED. DEC. 12 | Drivers of seasonal changes in the body condition of polar bears across Nunavut, Canada
MELISSA GALICIA
- 11:15 AM – 11:30 AM
WED. DEC. 12 | Developing an Indicator: Understanding variability and trends of beluga whale body condition and influence of environmental drivers
KATHLEEN MACMILLAN
- 11:30 AM – 11:45 AM
WED. DEC. 12 | Genomic tools to enable non-invasive monitoring of polar bears
EVELYN JENSEN

POL07.**Knowledge to Decision and Policy-Making: Approaches of Arctic Nations****ROOM 209***Chairs: Brendan Kelly, Leah Braithwaite and Amy Lauren Lovcraft*

- 10:30 AM – 10:45 AM
WED. DEC. 12 | THOMAS WINKLER
Ambassador of the Kingdom of Denmark to Canada

10:45 AM – 11:00 AM WED. DEC. 12	SEARCH and US approaches to Navigating the New Arctic BRENDAN KELLY
11:00 AM – 11:15 AM WED. DEC. 12	Co-operatives, equity-aware policy, and intermediaries: Factors in renewable energy adoption in Alaska with implications for Nunavut OANA SPINU
11:15 AM – 11:30 AM WED. DEC. 12	Understanding the networked structure of Arctic scientific research: The evolution of a Canadian Network of Centres of Excellence ASHLEE-ANN PIGFORD
11:30 AM – 11:45 AM WED. DEC. 12	Building knowledge and capacity in the North: Is research addressing northern priorities? ALISON PERRIN
11:45 AM – 12:00 PM WED. DEC. 12	Observations and Indigenous Knowledge: The Value of Multiple Evidence Based Approach to Arctic Science Production SAM NICHOLAS

TERO2.

Arctic Freshwater Systems

ROOM 210

Chairs: Yohanna Klanten, João Canário, Warwick F. Vincent and Diogo Folhas

10:30 AM – 10:45 AM WED. DEC. 12	Methane cycling archives from warming Arctic lakes: Retrieving the genomic blueprints of ancient microbes ALEXANDRA ROUILLARD
10:45 AM – 11:00 AM WED. DEC. 12	Large winter increases of arsenic in surface waters of small subarctic lakes impacted by legacy mining pollution near Yellowknife, NT MIKE PALMER
11:00 AM – 11:15 AM WED. DEC. 12	Formation and demise of an icing-dammed proglacial lake on Bylot Island, Nunavut, Canada MICHELLE BLADE
11:15 AM – 11:30 AM WED. DEC. 12	Developing a novel snow observing system for improving the understanding and prediction of climate, hydrology, permafrost and ecology PHILIP MARSH
11:30 AM – 11:45 AM WED. DEC. 12	Tracking the extent and magnitude of the 2018 spring flood in the Peace-Athabasca Delta (Canada) using water isotope tracers CASEY REMMER

TERO1.

Arctic Ecosystems and Wildlife

ROOM 211

Chairs: Jesper Bruun Mosbacher and Jean-Pierre Desforges

10:30 AM – 10:45 AM WED. DEC. 12	Wildlife research at Canadian Forces Station Alert, Ellesmere Island DOMINIQUE BERTEAUX
10:45 AM – 11:00 AM WED. DEC. 12	Boots on the Ground - traditional knowledge caribou monitoring program TYANNA STEINWAND

- 11:00 AM – 11:15 AM
WED. DEC. 12 | How much sampling effort is required to obtain less biased and more precise indexes of predator activity in tundra ecosystems?
INES KHEDHRI
- 11:15 AM – 11:30 AM
WED. DEC. 12 | Examining the structure of the Hudson Bay polar bear subpopulations: Do the current boundaries contribute to effective harvest management?
JOSEPH NORTHRUP
- 11:30 AM – 11:45 AM
WED. DEC. 12 | Examining the impacts of the George River Caribou Herd hunting ban on northern Labrador Inuit: An integrated resource management perspective.
JASON DICKER

MAR08.

The Greater Hudson Bay Marine Region

ROOM 212

Chairs: Lauren Candlish and Zou Zou Kuzyk

- 10:30 AM – 10:45 AM
WED. DEC. 12 | The Hudson Bay integrated regional impact study (IRIS) and future research perspectives
ZOU ZOU KUZYK
- 10:45 AM – 11:00 AM
WED. DEC. 12 | 1981 to 2070: An analysis of climate change's effect on 90 years of simulated, regulated ensemble discharge to Hudson Bay
ANDREW TEFS
- 11:00 AM – 11:15 AM
WED. DEC. 12 | A carbon budget for Hudson Bay
DAVID CAPELLE
- 11:15 AM – 11:30 AM
WED. DEC. 12 | Mercury and methylmercury mass budget in the Hudson Bay system: an update
KATHLEEN MUNSON
- 11:30 AM – 11:45 AM
WED. DEC. 12 | Stable population size in the face of a novel predator - why polar bear predation isn't driving declines in common eider populations
CHRISTINA SEMENIUK
- 11:45 AM – 12:00 PM
WED. DEC. 12 | Creation of the Hudson Bay Consortium and outcomes of the 2018 Hudson Bay Summit
JOEL HEATH

POL08.

Managing the Social and Ecological Impacts of Marine Vessel Traffic in the Arctic ROOM 102

Chairs: Natalie Carter and William Halliday

- 10:30 AM – 10:45 AM
WED. DEC. 12 | Arctic Corridors and Northern Voices: Working together to reduce the social and ecological impacts of increasing marine vessel traffic in the Canadian Arctic
JACKIE DAWSON
- 10:45 AM – 11:00 AM
WED. DEC. 12 | Incorporating Salluit community voices in Arctic marine corridor management
KAYLA GREYDANUS
- 11:00 AM – 11:15 AM
WED. DEC. 12 | Bridging Arctic marine shipping concerns and recommendations with management and policy
MELISSA NACKE

- 11:15 AM – 11:30 AM | Managing acoustic impacts on marine mammals in the western Canadian Arctic
WED. DEC. 12 | WILLIAM HALLIDAY
- 11:30 AM – 11:45 AM | Assessing vessel slowdown for reducing auditory masking for marine mammals of the western Canadian Arctic
WED. DEC. 12 | MATTHEW K. PINE
- 11:45 AM – 12:00 PM | Examining the potential impact of increased vessel traffic noise on marine mammals in the proposed Tallurutiup Imanga (Lancaster Sound) National Marine Conservation Area
WED. DEC. 12 | ZUZANNA KOCHANOWICZ

WEDNESDAY, DECEMBER 12, 2018

1:30 PM - 3:00 PM

9 Parallel Sessions

IHEA02.

Arctic Contaminants: Emerging Concerns

ROOM 201

Chairs: Emma Pike, Jean Allen and Eva Kruemmel

- 1:30 PM – 1:45 PM | Use of pre-industrial baselines to assess sources and pathways of metals in surface sediment of floodplain lakes in the Peace-Athabasca Delta (Alberta, Canada)
WED. DEC. 12 | TANNER OWCA
- 1:45 PM – 2:00 PM | Trace elements in selected permafrost-affected soils of near-natural and anthropogenically-affected sites of Yamal region
WED. DEC. 12 | IVAN ALEKSEEV
- 2:00 PM – 2:15 PM | SCOTT ZOLKOS
WED. DEC. 12
- 2:15 PM – 2:30 PM | Collapsing permafrost as a source of total mercury and methyl mercury to downstream ecosystems
WED. DEC. 12 | KYRA ST. PIERRE
- 2:30 PM – 2:45 PM | Amino acid and sulfur stable isotopes in thick-billed murre prey: relationships to prey diet and contaminant signatures
WED. DEC. 12 | KYLE ELLIOTT
- 2:45 AM – 3:00 PM | Predicting population-level impacts of contaminants in marine mammals
WED. DEC. 12 | JEAN-PIERRE DESFORGES

IHEA09.

One Health in the North

ROOM 202

Chairs: Emily Jenkins and Patrick Leighton

- 1:30 PM – 1:45 PM | Metacystode infections with echinococcus spp. and versteria sp. in human: changing patterns of disease over a 15-year period
WED. DEC. 12 | SAPHA BARKATI
- 1:45 PM – 2:00 PM | Development of a molecular method to detect and identify taeniid eggs in fresh produce
WED. DEC. 12 | CAROLINE FREY

2:00 PM – 2:15 PM WED. DEC. 12	Prevalence, distribution, diversity, and improved diagnostics for zoonotic echinococcus spp. in the Canadian North TEMITOPE KOLAPO
2:15 PM – 2:30 PM WED. DEC. 12	Patterns of mental health-related visits at community nursing clinics in Nunatsiavut: A population-based study JACQUELINE MIDDLETON
2:30 PM – 2:45 PM WED. DEC. 12	Factors influencing the mental wellness of community health workers in Nain, Nunatsiavut CHRISTINA HACKETT
2:45 AM – 3:00 PM WED. DEC. 12	Sled dogs as sentinels for people living in rural alaskan communities ARLEIGH REYNOLDS

KM05. Community-Based Monitoring and Surveillance in the Circumpolar North **ROOM 203**

Chairs: Ashlee Cunsolo, Sherilee Harper, Cedric Yansouni, David Goldfarb and Tom Wong

1:30 PM – 1:45 PM WED. DEC. 12	Clyde River Knowledge Atlas: Linking Inuit knowledge and technology to mobilize knowledge at the community level MIKE JAYPOODY
1:45 PM – 2:00 PM WED. DEC. 12	Advances made, and lessons learned in developing a collaborative open-data platform for community-based water monitoring LINDSAY DAY
2:00 PM – 2:15 PM WED. DEC. 12	Lessons learned from mapping permafrost vulnerability in Northern communities LOUIS-PHILIPPE ROY
2:15 PM – 2:30 PM WED. DEC. 12	Researching migratory fish in a changing watershed: a community-based model RACHEL HOVEL
2:30 PM – 2:45 PM WED. DEC. 12	Migratory patterns of Whitefish in the Mackenzie Delta Region EMMA HODGSON
2:45 AM – 3:00 PM WED. DEC. 12	Community health monitoring of Narwhal (<i>Monodon monoceros</i>): Necropsy findings 2013-2017 SANDRA BLACK

TER06. Functions of the Arctic Tundra Ecosystem Under Rapid Environmental Change **ROOM 204**

Chairs: Vincent Maire, Masaki Uchida and Esther Lévesque

1:30 PM – 1:45 PM WED. DEC. 12	Climate change impacts on tundra ecosystems: Perspectives from the past KONRAD GAJEWSKI
1:45 PM – 2:00 PM WED. DEC. 12	Snowmelt monitoring in small Arctic catchments with TerraSAR-X - A case study from Qikiqtaruk (Herschel Island) SAMUEL STETTNER
2:00 PM – 2:15 PM WED. DEC. 12	Using visible and near-infrared spectral reflectance to estimate tundra vegetation biodiversity, Qikiqtaruk – Herschel Island, Canada ALISON BEAMISH

- 2:15 PM – 2:30 PM
WED. DEC. 12 | Erect shrubs modulate carbon distribution in soils of the Qarlikturvik Valley prostrate tundra, Bylot Island, Nunavut
VINCENT MAIRE
- 2:30 PM – 2:45 PM
WED. DEC. 12 | Effect of plant community structure on soil respiration of tundra ecosystem through multiple ecosystem functions in Canadian Arctic
SHOTA MASUMOTO
- 2:45 AM – 3:00 PM
WED. DEC. 12 | Simulation of ecosystem carbon cycle in Ny-Ålesund, Norwegian High Arctic under environmental change
MASAKI UCHIDA

POL07. Knowledge to Decision and Policy-Making: Approaches of Arctic Nations ROOM 209

Chairs: Brendan Kelly, Leah Braithwaite and Amy Lauren Lovecraft

- 1:30 PM – 1:45 PM
WED. DEC. 12 | Auditing the Federal Government's Responsibilities in the Arctic
GEORGE STUETZ
- 1:45 PM – 2:00 PM
WED. DEC. 12 | Is bigger always better? Why Arctic policy-making needs big and thick data
DIANE YODER
- 2:00 PM – 2:15 PM
WED. DEC. 12 | Defining common interests, enhancing capacity, working together: An overview of the creation of a research/government collaboration in Nunatsiavut
MELANIE FLYNN
- 2:15 PM – 2:30 PM
WED. DEC. 12 | Imappivut (Our Oceans) marine plan: Recognizing people and place in decision-making
MARY DENNISTON
- 2:30 PM – 2:45 PM
WED. DEC. 12 | Restoring public trust: Evolution in the North American model of wildlife management
STEPHEN DECKER
- 2:45 PM – 3:00 PM
WED. DEC. 12 | ENGO Partnership Potential in the North: The Case of Greenpeace and Clyde River
DANITA CATHERINE BURKE

TER02. Arctic Freshwater Systems ROOM 210

Chairs: Yohanna Klanten, João Canário, Warwick F. Vincent and Diogo Folhas

- 1:30 PM – 1:45 PM
WED. DEC. 12 | The effect of scale on the relative importance of climatic and biotic variables influencing methane fluxes from an Arctic wet sedge meadow
EMMA RILEY
- 1:45 PM – 2:00 PM
WED. DEC. 12 | Carbon cycling and Methane Dynamics in the Mackenzie River Floodplain Delta
MITCHELL BERGSTRESSER
- 2:00 PM – 2:15 PM
WED. DEC. 12 | Importance of rock flour to carbon cycling in glacial river systems of the Lake Hazen watershed
PAUL DAINARD
- 2:15 PM – 2:30 PM
WED. DEC. 12 | Impacts of climate change and intensive lesser snow goose (*Chen caerulescens caerulescens*) activity on surface water in high Arctic pond complexes
KIYO CAMPBELL

2:30 PM – 2:45 PM
WED. DEC. 12 | Assessing the Hydrological Variability of Lakes between Inuvik and Tuktoyaktuk
EVAN WILCOX

TERO1. Arctic Ecosystems and Wildlife

ROOM 211

Chairs: Jesper Bruun Mosbacher and Jean-Pierre Desforges

1:30 PM – 1:45 PM
WED. DEC. 12 | Hyperabundant Arctic geese are affecting tundra habitats and sympatric birds
PAUL SMITH

1:45 PM – 2:00 PM
WED. DEC. 12 | Can goose colonies supported by anthropogenic activities in temperate ecosystems affect the activity of tundra predators?
A multi-site comparison conducted at a circumpolar scale
AUDREY BÉDARD

2:00 PM – 2:15 PM
WED. DEC. 12 | What happens when you add preys to an arctic ecosystem? Modeling the apparent competition between snow goose and semipalmated sandpiper
SARAH JACQUES

2:15 PM – 2:30 PM
WED. DEC. 12 | Risky business: Effects of human habitation on predation risk and nest survival of sub-arctic nesting shorebirds
TAYLOR BROWN

2:30 PM – 2:45 PM
WED. DEC. 12 | Potential for competition between eastern migratory caribou and muskoxen in Nunavik
ALEXIS BRODEUR

2:45 AM – 3:00 PM
WED. DEC. 12 | Local and regional landscapes of fear: Using citizen science and a non-invasive index of stress to assess snowshoe hare perception of risk
SOPHIA LAVERGNE

MAR08. The Greater Hudson Bay Marine Region

ROOM 212

Chairs: Lauren Candlish and Zou Zou Kuzyk

1:30 PM – 1:45 PM
WED. DEC. 12 | Glucocorticoids mediate short-, but not long-term, life history trade-offs in a seabird
OLIVER LOVE

1:45 PM – 2:00 PM
WED. DEC. 12 | The making of baselines of epibenthic communities in the Hudson Bay Complex
MARIE PIERREJEAN

2:00 PM – 2:15 PM
WED. DEC. 12 | Underwater videography as a window into the health of James Bay Eelgrass
NICHOLAS ANDERSON

2:15 PM – 2:30 PM
WED. DEC. 12 | Hatching time of *Boreogadus saida* in Hudson Bay; Further testing of the freshwater winter refuge hypothesis
SARAH SCHEMBRI

2:30 PM – 2:45 PM
WED. DEC. 12 | Wintertime diel vertical migration under sea ice in Hudson Bay
VLDISLAV PETRUSEVICH

2:45 AM – 3:00 PM
WED. DEC. 12 | Variability in daily pCO₂ cycles in the lower Churchill River
DAVID CAPELLE

POL08. Managing the Social and Ecological Impacts of Marine Vessel Traffic in the Arctic ROOM 102

Chairs: Natalie Carter and William Halliday

- 1:30 PM – 1:45 PM
WED. DEC. 12 | Inuit Marine Monitoring Program
JEFFREY MAURICE
- 1:45 PM – 2:00 PM
WED. DEC. 12 | Shipping in the Barents area: Local impacts and adaptive responses
JULIA OLSEN
- 2:00 PM – 2:15 PM
WED. DEC. 12 | Temporal and spatial trends of marine tourism in the Canadian Arctic: Risks and opportunities
MELISSA WEBER
- 2:15 PM – 2:30 PM
WED. DEC. 12 | Media representations of Arctic tourism – The case of the Crystal Serenity
MATHIEU LANDRIAULT
- 2:30 PM – 2:45 PM
WED. DEC. 12 | A tale of two hamlets – The role of a tourism champion in the relative success of the 2016 visit of the Crystal Serenity to Nunavut, Canada
ANDREW ORAWIEC

WEDNESDAY, DECEMBER 12, 2018

3:30 PM - 5:00 PM

9 Parallel Sessions

IHEA02. Arctic Contaminants: Emerging Concerns ROOM 201

Chairs: Emma Pike, Jean Allen and Eva Kruemmel

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Microplastics in the Beluga Food Web
RHIANNON MOORE
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Contaminants in Salmonids from the Kitikmeot Region, Nunavut: Collaborative Efforts with Between King William Island Residents and Southerners
VIRGINIA WALKER
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Canada's engagement in the Arctic Council Arctic Contaminants Action Program (ACAP)
NORAH FOY
- 4:15 PM – 4:30 PM
WED. DEC. 12 | Inuit Circumpolar Council (ICC) – Global actions on contaminants
EVA KRUEMMEL

KM04. Communicating Science ROOM 202

Chairs: Dustin Whalen and Paul Sokoloff

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Seasonal cycles in Nunavik: Communicating environmental observations from the CAIMAN Network
YVES GAUTHIER
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Using online platforms to communicate science and stimulate international public engagement
JEAN HOLLOWAY

- 4:00 PM – 4:15 PM
WED. DEC. 12 | High school citizen science – contributory outreach in historical climate research
MATTHEW AYRE
- 4:15 PM – 4:30 PM
WED. DEC. 12 | Beyond the gallery: Full spectrum Arctic botany outreach at the Canadian Museum of Nature
PAUL SOKOLOFF
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Using ArcGIS Story Map as tool to educate and facilitate geo-spatial knowledge transfer
DAVONNA KASOOK
- 4:45 PM – 5:00 PM
WED. DEC. 12 | Constraints on climate change communication in the central Arctic
CHUI-LING TAM

KM05.

Community-Based Monitoring and Surveillance in the Circumpolar North

ROOM 203

Chairs: Ashlee Cunsolo, Sherilee Harper, Cedric Yansouni, David Goldfarb and Tom Wong

- 3:30 PM – 3:45 PM
WED. DEC. 12 | "It depends...." Considering Inuit-identified metrics in context for monitoring and responding to climate change in the Circumpolar North
ALEXANDRA SAWATZKY
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Accessing and assessing environmental information: Community-identified metrics and modifiers that matter in a changing climate
JACQUELINE MIDDLETON
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Bridging the digital divide to support community-based monitoring in the Circumpolar North
DANIEL GILLIS
- 4:15 PM – 4:30 PM
WED. DEC. 12 | Impact of implementation of gastrointestinal pathogen molecular testing in the Qikiqtaaluk region, Nunavut
DAVID GOLDFARB
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Mobile laboratories: bringing diagnostic capacity to remote northern communities to improve tuberculosis detection and control
GUILLAUME POLIQUIN
- 4:45 PM – 5:00 PM
WED. DEC. 12 | Potential impact of decreasing turnaround time of cerebrospinal fluid enterovirus polymerase chain reaction (PCR) testing in hospitalized children
CHELSEA CAYA

TER06.

Functions of the Arctic Tundra Ecosystem Under Rapid Environmental Change

ROOM 204

Chairs: Vincent Maire, Masaki Uchida and Esther Lévesque

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Bacterial communities and diversities in tundra soils from Canadian Arctic
RYO KANEKO
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Developing microbial community baseline data to support biodiversity monitoring in the Cambridge Bay area of the Arctic
CHARLES GREER
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Biogeography of Arctic White Heather (*Cassiope tetragona*)
CASSANDRA ELPHINSTONE

- 4:15 PM – 4:30 PM
WED. DEC. 12 | Vascular synphenology of arctic plant communities in south-eastern Victoria Island, Nunavut: A comparison of 2015 and 2018 growing seasons
JOHANN WAGNER
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Change in multi-taxa communities along an environmental gradient in the Canadian subarctic tundra
RYO KITAGAWA
- 4:45 PM – 5:00 PM
WED. DEC. 12 | The effects of climate change on terrestrial ecosystems in the Hudson Bay Lowlands
HILARY WHITE

MAR01.

Arctic Marine Benthic Ecosystems: From Local to Pan-Arctic Scales

ROOM 209

Chairs: Philippe Archambault, Dieter Piepenburg and Kathleen MacGregor

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Ecological approach of the importance of sea ice algae as a carbon source to the deep sea benthic food web using sea ice proxy biomarkers and stable isotope analyses in Baffin Bay, Canadian Arctic
GUSTAVO YUNDA-GUARIN
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Characterization of benthic community structure, biodiversity and activity from contrasting regions of ice cover in the western Barents Sea
JASMIN A. GODBOLD
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Size structure and carbonate content in cold-water soft corals
BÁRBARA DE MOURA NEVES
- 4:15 PM – 4:30 PM
WED. DEC. 12 | First ROV observations of the cold-water reef-building coral *Lophelia pertusa* in Southwest Greenland
BÁRBARA DE MOURA NEVES
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Preliminary results of WWF-Canada's Eastern Arctic marine conservation network design project
MARTINE GIANGIOPPI
- 4:45 PM – 5:00 PM
WED. DEC. 12 | An innovative approach to public outreach in support of the conservation and promotion of ecologically important areas in Baffin Bay and Davis Strait, Canada
ELIZABETH HILTZ

TER02.

Arctic Freshwater Systems

ROOM 210

Chairs: Yohanna Klanten, João Canário, Warwick F. Vincent and Diogo Folhas

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Improving drinking water in Pond Inlet: Inuit researchers advancing monitoring capacity for water sources and supply system
TIM ANAVIAPIK SOUCIE
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Understanding the effects of industry on the Peace-Athabasca Delta (Canada): developing baseline hydrological conditions and sediment metal concentrations using paleolimnology
JELLE FABER
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Impact and recovery of sediment and particulate carbon fluxes from disturbed permafrost watersheds
CASEY BEEL

- 4:15 PM – 4:30 PM
WED. DEC. 12 | Stuckberry Valley Lakes: Sentinels of environmental change at Canada's Extreme Northern Limit
YOHANNA KLANTEN
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Cold ice in a warm bath; Proglacial lake temperature observations from an actively calving Arctic glacier front and space
ADRIAN DYE
- 4:45 PM – 5:00 PM
WED. DEC. 12 | Aerosol viruses released from the melting cryosphere: sentinel microorganisms for a changing Arctic
CATHERINE GIRARD

IHEA04. Empowering Northern Communities to Respond to Climate Change Impacts ROOM 211

Chairs: Miki Ehrlich, Ben Linaker and Donna Sinnett

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Empowering northern communities to respond to climate change impacts: progress, challenges and lessons learned
BEN LINAKER
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Mobilizing Knowledge for Developing Indigenous Community Champions for Climate Change Adaptation in Yukon
JASMINE GATENSBY
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Tł̨chq̨ Dq̨taàts'eedi (Tł̨chq̨ sharing food amongst the people)
PAUL CRESSMAN
- 4:15 PM – 4:30 PM
WED. DEC. 12 | Arviat Young Hunters Ujjiqsuiniq Program
KUKIK BAKER
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Identifying and mapping Natural Hazards within Kangiqsujuaq surrounding areas
VERONIQUE GILBERT
- 4:45 PM – 5:00 PM
WED. DEC. 12 | Community driven solutions for increasing food security resilience in Nunatsiavut
KRISTEEN MCTAVISH

MAR08. The Greater Hudson Bay Marine Region ROOM 212

Chairs: Lauren Candlish and Zou Zou Kuzyk

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Spatial distribution of riverine tracers in southeast Hudson Bay
CELINE GUEGUEN
- 3:45 PM – 4:00 PM
WED. DEC. 12 | River influence on the salinity of the eastern James Bay
URS NEUMEIER
- 4:00 PM – 4:15 PM
WED. DEC. 12 | NEMO modelling in and around the Hudson Bay Complex
PAUL MYERS
- 4:15 PM – 4:30 PM
WED. DEC. 12 | Full year waves records for two locations in Hudson Bay/Straight, Nunavik
URS NEUMEIER

- 4:30 PM – 4:45 PM
WED. DEC. 12 | The anomalous sea ice growth and drift in the Hudson Bay in 2017/18 caused by the enhanced cyclonic atmospheric circulation
SERGEI KIRILLOV
- 4:45 PM – 5:00 PM
WED. DEC. 12 | Ocean color variability in the Hudson Bay system: in situ observations and satellite validation
LUCAS BARBEDO DE FREITAS

IHEA06. Accessibility to Education in the North and Inuit Experiences in Post-Secondary Education ROOM 102

Chairs: Witold Kinsner, Alyssa Flaherty-Spence, Elise Ho-Foong and Randy Herrmann

- 3:30 PM – 3:45 PM
WED. DEC. 12 | Inuit Post-Secondary Education – Experiences and Recommendations through Surveys and Interviews
ELISE HO-FOONG
- 3:45 PM – 4:00 PM
WED. DEC. 12 | Inuit Nunangat University
HEATHER OCHALSKI
- 4:00 PM – 4:15 PM
WED. DEC. 12 | Determinants of Nunavimmiut postsecondary success
MADELEINE PAWLOWSKI
- 4:15 PM – 4:30 PM
WED. DEC. 12 | Making Room - the impact of creative traditions of making and problem solving on student motivation and persistence
KATHY SNOW
- 4:30 PM – 4:45 PM
WED. DEC. 12 | Supporting Inuit Qaujimajatuqangit in schools for student persistence and success in Inuit Nunangat
MELANIE O'GORMAN
- 4:45 PM – 5:00 PM
WED. DEC. 12 | Evaluating Contaminants Learning: the experience of the Nunavut Arctic College Environmental Technology Program's wildlife, contaminants and health workshop
JENNIFER PROVENCHER
- 5:00 PM – 5:15 PM
WED. DEC. 12 | An unmanned aerial system to monitor a solar-cell farm and its power grid in remote locations
WITOLD KINSNER

THURSDAY, DECEMBER 13, 2018

10:30 AM - 12:00 PM

10 Parallel Sessions

KM06. Inuit Self-Determination in Research: Implementing the National Inuit Strategy on Research ROOM 201

Chairs: Scot Nickels and Gregor Gilbert

- 10:30 AM – 10:45 AM
THU. DEC. 13 | National Perspective
TIM ARGETSINGER
- 10:45 AM – 11:00 AM
THU. DEC. 13 | International Perspective
LISA KOPERQUALUK

11:00 AM – 11:15 AM
THU. DEC. 13

Tri-Agency Perspective
TED HEWITT

11:15 AM – 11:30 AM
THU. DEC. 13

Inuit Regional Perspective
SHANNON O'HARA

11:30 AM – 11:45 AM
THU. DEC. 13

Focus on Priority Area #4: Ensuring Inuit Access, Ownership, and Control over Data and Information
ANITA KORA

TECH03.

Climate Services in Canada's North: Understanding the Evolving Needs

ROOM 202

Chairs: Kelly Montgomery and Richard Dewey

10:30 AM – 10:45 AM
THU. DEC. 13

Using unmanned aerial vehicles (UAVs) to map and monitor the effects of climate driven changes on the Western Arctic Environment: A Caribou Hills case study
GARFIELD GIFF

10:45 AM – 11:00 AM
THU. DEC. 13

Six years of high resolution marine data from the Cambridge Bay Observatory: How long do records need to be to detect climate change?
RICHARD DEWEY

11:00 AM – 11:15 AM
THU. DEC. 13

Air-sea-ice interactions during the Great Arctic Cyclone of August 2012
WILL PERRIE

11:15 AM – 11:30 AM
THU. DEC. 13

A climatology of fog in the Canadian Arctic from more than half a century of surface weather observations
HESTER JISKOOT

11:30 AM – 11:45 AM
THU. DEC. 13

Making science outcomes accessible in Yukon: A review of climate change research trends
ALISON PERRIN

11:45 AM – 12:00 PM
THU. DEC. 13

Implementation of the Arctic Regional Climate Centre
JOHN PARKER

KM02.

Co-Management, Co-Production of Knowledge and the Integration of Community-Based Monitoring to Supporting Effective Wildlife Resource Decision-Making and Inuit Self-Determination

ROOM 203

Chairs: Jamie Snook, Kaitlin Breton-Honeyman, Tristan Pearce, Lisa Loseto, Denis Etiendem Ndeloh and Noor Johnson

10:30 AM – 10:45 AM
THU. DEC. 13

How researchers report on the role of Indigenous Knowledge in wildlife management: The "role in theory" versus the "role in practice"
KATIE ROSA

10:45 AM – 11:00 AM
THU. DEC. 13

Inuvialuit Settlement Region Beluga Tagging Program: A community and co-management driven success story
VERNON AMOS

11:00 AM – 11:15 AM
THU. DEC. 13

Coming together for caribou: Using community-led audio-visual methods to explore relationships among Inuit and caribou in Labrador
DAVID BORISH

11:15 AM – 11:30 AM | Minding the gap: Using community-based monitoring data in wildlife co-management decision making
THU. DEC. 13 | DENIS NDELOH

11:30 AM – 11:45 AM | Arctic Borderlands, community based ecological monitoring by and for Gwich'in and Inuvialuit people.
THU. DEC. 13 | HEATHER ASHTORN

IHEA12. Vulnerabilities, Impacts and Adaptation to Climate Change in Northern/Arctic Environments **ROOM 204**

Chairs: Robert Siron and Stéphanie Bleau

10:30 AM – 10:45 AM | Human perspectives on climate variations of the coast of Labrador, 1750-1950
THU. DEC. 13 | MARIE-MICHÈLE OUELLET-BERNIER

10:45 AM – 11:00 AM | The effect of an unusual summer storm on beluga whale habitat use and the traditional beluga harvest
THU. DEC. 13 | KEVIN SCHARFFENBERG

11:00 AM – 11:15 AM | Climate change impact on mine industry in the Northern Canada
THU. DEC. 13 | ÉMILIE BRESSON

11:15 AM – 11:30 AM | Exploring the effects of Arctic fox ecology on rabies epidemiology in Northern Quebec using a spatially-explicit individual-based model
THU. DEC. 13 | AGATHE ALLIBERT

11:30 AM – 11:45 AM | Effects of climate change on the tundra biodiversity of Nunavik: Exposure, sensitivity and vulnerability
THU. DEC. 13 | DOMINIQUE BERTEAUX

11:45 AM – 12:00 PM | Shedding a light on climate change adaptation progress and research needs in Eeyou Istchee and Nunavik (Québec, Canada)
THU. DEC. 13 | REBECCA HENNIGS

IHEA10. The Arctic Inspiration Prize: An Exploration of Grassroots Northern Innovation **ROOM 209**

Chairs: Katie Blasco and Jason Annahatak

10:30 AM – 10:45 AM | The Arctic Inspiration Prize: Encouraging, enabling and celebrating northern innovation
THU. DEC. 13 | MARTI FORD

10:45 AM – 11:00 AM | Measuring outcomes of technology enterprise in Inuit Nunangat: The smartICE case study
THU. DEC. 13 | TREVOR BELL

11:00 AM – 11:15 AM | Arctic Indigenous Wellness Foundation; Urban on The Land Healing Camp
THU. DEC. 13 | DONALD PRINCE

11:15 AM – 11:30 AM | The Unaaq Men's Association of Inukjuak: Developing hunters through intensive traditional skills development programs
THU. DEC. 13 | TOMMY PALLISER

11:30 AM – 11:45 AM | Te(a)ch - Computer Science, Health and Wellness

THU. DEC. 13 | RYAN OLIVER

11:45 AM – 12:00 PM | Northern youth bridging research and communities: The growth and evolution of Ikaarvik
THU. DEC. 13 | ERIC SOLOMON

TER03. Biogeochemical Processes in Permafrost Thaw Lakes

ROOM 210

Chairs: Yohanna Klanten, João Canário, Warwick F. Vincent and Diogo Folhas

10:30 AM – 10:45 AM | Tracking climate-driven landscape changes and associated impacts on lakes and rivers in Old Crow Flats, Yukon, Canada
THU. DEC. 13 | KEVIN TURNER

10:45 AM – 11:00 AM | Sulphur dynamics in permafrost Thaw Lakes
THU. DEC. 13 | JOÃO CANÁRIO

11:00 AM – 11:15 AM | Impact of thawing permafrost in subarctic region on the Hg cycling in thermokarst pond
THU. DEC. 13 | MARTIN PILOTE

11:15 AM – 11:30 AM | Structural characterization of natural organic matter in thermokarst lakes in the Eastern Canadian Subarctic
THU. DEC. 13 | DIOGO FOLHAS

11:30 AM – 11:45 AM | Dissolved organic matter as a key variable in the changing arctic limnoscape
THU. DEC. 13 | ISABELLE LAURION

TER08. Macro and Micro Parasite-omes in the Arctic: Understanding Complex Ecological Interactions From Hosts to Ecosystems

ROOM 211

Chairs: Susan Kutz and Oscar Aleuy Young

10:30 AM – 10:45 AM | The effect of tar spot pathogen on host plant carbon balance and its possible consequences on a tundra ecosystem
THU. DEC. 13 | SHOTA MASUMOTO

10:45 AM – 11:00 AM | Seasonal and regional differences influence the gut fauna of northern common eider ducks
THU. DEC. 13 | JENNIFER PROVENCHER

11:00 AM – 11:15 AM | Thermal tolerance and local adaptation to freezing temperatures in a key nematode of Arctic ungulates: The case of *Marshallagia marshalli*
THU. DEC. 13 | O. ALEJANDRO ALEUY

11:15 AM – 11:30 AM | Interactions between parasites and contaminants in northern eider ducks
THU. DEC. 13 | JENNIFER PROVENCHER

11:30 AM – 11:45 AM | Protozoal population shifts across climate gradients at the Arctic/subarctic interface
THU. DEC. 13 | MICHAEL E. GRIGG

11:45 AM – 12:00 PM | Diversity and ecology of Arctic pathogens under unprecedented disturbances; current challenges for an uncertain future
THU. DEC. 13 | DISCUSSION

MAR07.**Natural Laboratories as a Tool for Predicting Ecosystem Response to Future Arctic Change****ROOM 212***Chairs: Victoria Peck and Gerald Darnis*

- 10:30 AM – 10:45 AM
THU. DEC. 13 | Marine Arctic Ecosystem Study (MARES): Mooring deployments on the Beaufort Sea shelf
FRANCIS WIESE
- 10:45 AM – 11:00 AM
THU. DEC. 13 | Deep-Sea loss of dissolved iron in the Arctic Ocean: Potential insight into the oceanic budget of an essential trace nutrient
JAY CULLEN
- 11:00 AM – 11:15 AM
THU. DEC. 13 | The ecology and evolution of methylotrophic bacteria in the Arctic Ocean
ARTHI RAMACHANDRAN
- 11:15 AM – 11:30 AM
THU. DEC. 13 | Contrasting bio-physical relationships between Arctic MYI and FYI
BENJAMIN LANGE
- 11:30 AM – 11:45 AM
THU. DEC. 13 | Upward diffusion of bottom ice dimethyl sulfide during the advanced melting stage of arctic first-year sea ice
MARGAUX GOURDAL
- 11:45 AM – 12:00 PM
THU. DEC. 13 | Light, mixing and the phytoplankton spring bloom at the retreating ice edge and into the pack ice
ACHIM RANDELHOFF

TERO1.**Arctic Ecosystems and Wildlife****OTTAWA
SALON***Chairs: Jesper Bruun Mosbacher and Jean-Pierre Desforges*

- 10:30 AM – 10:45 AM
THU. DEC. 13 | Arctic plant phenological responses to climate change: Evolutionary and life history trait patterns
ZOE PANCHEN
- 10:45 AM – 11:00 AM
THU. DEC. 13 | Responses of arctic tundra shrub species to climate change: differences between biotic and abiotic factors, and between short- and long-term effects
QIAN GU
- 11:00 AM – 11:15 AM
THU. DEC. 13 | Recent changes in vegetation productivity across the Bathurst caribou range
KATHERINE DEARBORN
- 11:15 AM – 11:30 AM
THU. DEC. 13 | Effects of spatial and temporal variation in resource availability and microclimate on the growth rates and survival of Arctic breeding shorebird chicks
BRANDAN NORMAN
- 11:30 AM – 11:45 AM
THU. DEC. 13 | Characterizing factors influencing stand age after fire in the Northwest Territories
ANASTASIA SNIDERHAN

KM10**Nunavik and Nunatsiavut Integrated Regional Impact Study, Second Iteration (IRIS 4.2)****ROOM 102***Chairs: Michel Allard and Mickaël Lemay*

- 10:30 AM – 10:45 AM
THU. DEC. 13 | Nunavik and Nunatsiavut regional climate information update
CARL BARRETTE

10:45 AM – 11:00 AM THU. DEC. 13	Inuit Health and Wellbeing in Nunavik and Nunatsiavut ASHLEE CUNSOLO and SHERILEE L. HARPER
11:00 AM – 11:15 AM THU. DEC. 13	Housing and community planning in Nunavik: social, environment, and design perspectives. MYLENE RIVA
11:15 AM – 11:30 AM THU. DEC. 13	One Health in the Eastern SubArctic – diseases at the interface of human, animal, and environmental health PATRICK A. LEIGHTON and EMILY J. JENKINS
11:30 AM – 11:45 AM THU. DEC. 13	Biodiversity and ecosystem dynamic PASCALE ROPARS
11:45 AM – 12:00 PM THU. DEC. 13	Extractive Industries and Economic Development in the Eastern Subarctic STEPHAN SCHOTT
12:00 PM – 12:15 PM THU. DEC. 13	Nunavik's coastal systems in a changing climate ANTOINE BOISSON

THURSDAY, DECEMBER 13, 2018

1:30 PM - 3:00 PM

9 Parallel Sessions

IHEA05. From Environmental Monitoring and Stewardship to a Dialogue About Training, Education and Knowledge Mobilization in Nunangat ROOM 201

Chairs: Jackie Kidd, Vincent L'Hérault, Shirley Tagalik and Jrene Rahm

1:30 PM – 1:45 PM THU. DEC. 13	Youth becoming keen observers of the land and message carriers for their communities – How, when, and where? SHIRLEY TAGALIK, MEGAN MUCKPAH-GAVIN and JRENE RAHM
1:45 PM – 2:00 PM THU. DEC. 13	Introducing the Inuit field training program in the Canadian Arctic PAUL SMITH
2:00 PM – 2:15 PM THU. DEC. 13	Working towards realizing the full potential of engaging Inuit youth in professional and research activities: examples from the Nunavik Marine Region Wildlife Board FRANKIE JEAN-GAGNON
2:15 PM – 2:30 PM THU. DEC. 13	Using educational workshops on ringed seal ecology to engage Inuit youth in contaminants research DOMINIQUE HENRI
2:30 PM – 2:45 PM THU. DEC. 13	Meeting them where they are at – Evaluating innovative, culturally-contextualized training models for sustainable inuit youth employment TREVOR BELL
2:45 AM – 3:00 PM THU. DEC. 13	Mobilizing Inuit Qaujimagatuqangit for Sea-Ice Safety: A Sikumiut case study to support Inuit Self-Determination in Research KATHERINE WILSON

KM01.**Building Comprehensive Understanding of the Kitikmeot Region and CHARS ERA: Marine, Terrestrial, and Community Perspectives****ROOM 202***Chairs: Donald McLennan, Kristina Brown, Milla Rautio and Adrian Schimnowski*

1:30 PM – 1:45 PM

THU. DEC. 13

Ice ecology in Arctic lakes

ELISE IMBEAU

1:45 PM – 2:00 PM

THU. DEC. 13

How productive are lakes and ponds in the Kitikmeot Region? A first estimation of primary, bacterial and zooplankton production of Greiner Lake watershed

GUILLAUME GROSGOIS

2:00 PM – 2:15 PM

THU. DEC. 13

Characterization of Arctic fish skin and intestinal microbiomes with potential for monitoring fish health

ERIN F. HAMILTON

2:15 PM – 2:30 PM

THU. DEC. 13

Migration and overwintering habitat of anadromous Arctic char (*Salvelinus alpinus*) near Kugluktuk, Nunavut

ROSIE SMITH

2:30 PM – 2:45 PM

THU. DEC. 13

Mobilizing local knowledge from the Kitikmeot region to inform understanding of, and resulting co-management strategies for, the dolphin and union caribou herd

ANDRE HANKE

KM02.**Co-Management, Co-Production of Knowledge and the Integration of Community-Based Monitoring to Supporting Effective Wildlife Resource Decision-Making and Inuit Self-Determination****ROOM 203***Chairs: Jamie Snook, Kaitlin Breton-Honeyman, Tristan Pearce, Lisa Loseto, Denis Etiendem Ndeloh and Noor Johnson*

1:30 PM – 1:45 PM

THU. DEC. 13

Co-design, co-delivery of a new beluga tagging program in the Inuvialuit Settlement Region

SHANNON MACPHEE

1:45 PM – 2:00 PM

THU. DEC. 13

Documenting Inuit Knowledge of light goose population dynamics in the Kivalliq region, Nunavut: Implications for wildlife co-management and knowledge co-production in Inuit Nunangat

DOMINIQUE HENRI

2:00 PM – 2:15 PM

THU. DEC. 13

Improving resource management using TK and community-based monitoring

PETER EVANS

2:15 PM – 2:30 PM

THU. DEC. 13

Honouring the integrity of indigenous knowledge systems through a knowledge coevolution framework

JACQUELINE CHAPMAN

2:30 PM – 2:45 PM

THU. DEC. 13

Listing the polar bear as a threatened species has resulted in the death of more bears

TRISTAN PEARCE

TECH02.**IEEE Arctic and Northern Ocean Forum – Remote Sensing and Modeling for the North****ROOM 204***Chairs: Dustin Isleifson, Wooil Moon and Ian Jeffrey*

1:30 PM – 1:45 PM THU. DEC. 13	Spaceborne SAR data assimilation in numerical sea ice prediction system ALEXANDER KOMAROV
1:45 PM – 2:00 PM THU. DEC. 13	TerraSAR-X and time-lapse photography for snow on sea-ice monitoring in Deception Bay, Nunavik SOPHIE DUFOR-BEAUSÉJOUR
2:00 PM – 2:15 PM THU. DEC. 13	Remote sensing of freshwater ice phenology in Canada's North in the era of abundant open-access satellite imagery XAVIER GIROUX-BOUGARD
2:15 PM – 2:30 PM THU. DEC. 13	Sea ice surface feature characterization and surface roughness quantification from UAV imagery MADISON HARASYN
2:30 PM – 2:45 PM THU. DEC. 13	Sea ice concentration estimation using deep learning: Recent work and future prospects ANDREA SCOTT
2:45 AM – 3:00 PM THU. DEC. 13	A new full-wave electromagnetics solver for fast analysis of microwave scattering from sea ice DUSTIN ISLEIFSON

POL04.

Extractive Industries and Sustainable Livelihoods in the Arctic

ROOM 209

Chairs: Thierry Rodon and Stephan Schott

1:30 PM – 1:45 PM THU. DEC. 13	"It depends on what you refer to as 'on the land'": How assessment mechanisms may further dispossess Indigenous peoples of land, culture, identity and health and well-being JEN JONES
1:45 PM – 2:00 PM THU. DEC. 13	Consultation, discussion, and partnership: An analysis of of the Baffinland consultation meeting transcripts WILLOW SCOBIE
2:00 PM – 2:15 PM THU. DEC. 13	Mining-induced flooding and use of deterrents for mitigating impacts on Arctic nesting birds GILLIAN HOLMES
2:15 PM – 2:30 PM THU. DEC. 13	The politics of consent : IA and IBA in the context of Canada Northern Land Claims Settlement THIERRY RODON

MAR02.

Arctic Marine Mammals

ROOM 210

Chairs: Lisa Loseto and Steve Ferguson

1:30 PM – 1:45 PM THU. DEC. 13	Pathogens and Heavy Metal content in Ringed Seals in Iqaluit, NU ENOOYAQ SUDLOVENICK
1:45 PM – 2:00 PM THU. DEC. 13	Spatial ecology of ringed seals across a latitudinal gradient in the eastern Canadian Arctic CODY CARLYLE
2:00 PM – 2:15 PM THU. DEC. 13	Dive behaviour of Beaufort Sea beluga whales (<i>Delphinapterus leucas</i>) in relation to seafloor depth, ice cover, and prey distribution LUKE STORRIE

- 2:15 PM – 2:30 PM
THU. DEC. 13 | Ecological regime change in the Arctic may be preventing complete post-whaling recovery of bowhead whales
STEVE FERGUSON
- 2:30 PM – 2:45 PM
THU. DEC. 13 | A decrease in the sea ice carbon pathway of benthic fauna in a warming Arctic: Atlantic walrus (*Odobenus rosmarus*) as a bioindicator of sea ice ecosystem variability
DAVID YURKOWSKI

TER05. From Causes to Consequences: Understanding Permafrost Dynamics and Their Influence on Ecosystems and Communities – Canadian Permafrost Association **ROOM 211**

Chairs: Ashley Rudy, Antoni Lewkowicz, Carolyn Gibson and Anne-Marie LeBlanc

- 1:30 PM – 1:45 PM
THU. DEC. 13 | Assessing permafrost-shrub interactions in the Torngat Mountains National Park, northern Labrador
ROBERT WAY
- 1:45 PM – 2:00 PM
THU. DEC. 13 | Thermal state of permafrost at sites in northern British Columbia and southern Yukon, Canada
ANTONI LEWKOWICZ
- 2:00 PM – 2:15 PM
THU. DEC. 13 | Spatial and interannual variation in surface offset near Lac de Gras, Northwest Territories, for 2015–16 and 2016–17
EMILIE STEWART-JONES
- 2:15 PM – 2:30 PM
THU. DEC. 13 | Investigation of seasonal interactions between microtopography, snow cover and ground surface temperature in a High-Arctic area
HADI MOHAMMADZADEH KHANI
- 2:30 PM – 2:45 PM
THU. DEC. 13 | Climate sensitivity of high Arctic permafrost terrain demonstrated by widespread ice-wedge thermokarst across the Canadian Arctic Archipelago
ROBERT FRASER
- 2:45 AM – 3:00 PM
THU. DEC. 13 | The spatial distribution of ice-wedge polygons in Nunavik
ALEXANDRE CHIASSON

MAR07. Natural Laboratories as a Tool for Predicting Ecosystem Response to Future Arctic Change **ROOM 212**

Chairs: Victoria Peck and Gérald Darnis

- 1:30 PM – 1:45 PM
THU. DEC. 13 | Spring Phytoplankton Phenology in Baffin Bay
JOANNIE FERLAND
- 1:45 PM – 2:00 PM
THU. DEC. 13 | Photosynthetic capacity during the GreenEdge project: seasonal light acclimation capacity and other photosynthetic parameters of the phytoplankton community in the marginal ice zone
FLAVIENNE BRUYANT
- 2:00 PM – 2:15 PM
THU. DEC. 13 | Challenging *Phaeocystis pouchetii* against diatoms during the summer bloom of phytoplankton in Labrador fjords (Eastern Canada)
ARMELLE GALINE and SIMO MATCHIM

- 2:15 PM – 2:30 PM
THU. DEC. 13 | Bloom timing explains succession of protistan functional community structure
ROXANE MARANGER
- 2:30 PM – 2:45 PM
THU. DEC. 13 | The influence of sea ice on the protist sinking export in high Arctic systems
GÉRALD DARNIS
- 2:45 AM – 3:00 PM
THU. DEC. 13 | Interannual dynamics of the Queen Maud Gulf pelagic ecosystem
THIBAUD DEZUTTER

MAR04.

Fisheries, Fishes, and Their Ecosystems in a Changing Arctic

ROOM 102

Chairs: Maxime Geoffroy, Dominique Robert and Andrew Majewski

- 1:30 PM – 1:45 PM
THU. DEC. 13 | Tracing foraging niche overlap and breadth between northward-redistributing temperate and Arctic marine fish along a latitudinal gradient
SARA PEDRO
- 1:45 PM – 2:00 PM
THU. DEC. 13 | Ontogenetic shifts in capelin diet and isotopic niche in the Eastern Canadian Arctic
WESLEY OGLOFF
- 2:00 PM – 2:15 PM
THU. DEC. 13 | Fishes in the polar night
MAXIME GEOFFROY
- 2:15 PM – 2:30 PM
THU. DEC. 13 | Northward shifts in opportunity: Salmon in the Canadian Arctic
KAREN DUNMALL
- 2:30 PM – 2:45 PM
THU. DEC. 13 | Tracking the movement of coastal fishes along the Diamond-Jenness Peninsula, Victoria Island
HARRI PETTITT-WADE
- 2:45 AM – 3:00 PM
THU. DEC. 13 | Impact of climate changes on aquatic resources in coastal areas of the Ivvavik National Park, Yukon: The case of Dolly Varden (*Salvelinus malma*)
JADE FALARDEAU

THURSDAY, DECEMBER 13, 2018

3:30 PM - 5:00 PM

10 Parallel Sessions

IHEA05.

From Environmental Monitoring and Stewardship to a Dialogue About Training, Education and Knowledge Mobilization in Nunangat

ROOM 201

Chairs: Jackie Kidd, Vincent L'Hérault and Shirley Tagalik

- 3:30 PM – 3:45 PM
THU. DEC. 13 | Supporting Northern-led environmental monitoring initiatives through training in the use of instrument technology for ocean data collection
MAIA HOEBERRECHTS
- 3:45 PM – 4:00 PM
THU. DEC. 13 | Contaminants and health monitoring in ringed seal near Pond Inlet, Nunavut
JAMES SIMONEE

4:00 PM – 4:15 PM
THU. DEC. 13 | Sharing language and learning: The Yup'ik environmental knowledge project as a teaching resource in Alaska
PETER PULSIFER

4:15 PM – 4:30 PM
THU. DEC. 13 | Integrated monitoring programs for northern coastal communities
RYAN FLAGG

KM01. Building Comprehensive Understanding of the Kitikmeot Region and CHARS ERA: Marine, Terrestrial, and Community Perspectives **ROOM 202**

Chairs: Donald McLennan, Kristina Brown, Milla Rautio and Adrian Schimnowski

3:30 PM – 3:45 PM
THU. DEC. 13 | Sea ice roughness from airborne laser scanner observations in the Canadian Arctic Archipelago and relationships to C- and L-band radar backscatter
SILVIE CAFARELLA

3:45 PM – 4:00 PM
THU. DEC. 13 | Synthetic aperture radar remote sensing based sea ice roughness mapping to inform safe travel in the Kitikmeot region of Nunavut
REBECCA SEGAL

4:00 PM – 4:15 PM
THU. DEC. 13 | The Canadian High Arctic Research Station (CHARS): Designing a meeting place as a meeting ground
CAROLYNE FONTAINE

KM02. Co-Management, Co-Production of Knowledge and the Integration of Community-Based Monitoring to Supporting Effective Wildlife Resource Decision-Making and Inuit Self-Determination **ROOM 203**

Chairs: Jamie Snook, Kaitlin Breton-Honeyman, Tristan Pearce, Lisa Loseto, Denis Etiendem Ndeloh and Noor Johnson

3:30 PM – 3:45 PM
THU. DEC. 13 | Monitoring the Inuvik Tuktoyaktuk Highway - an example of community based management and monitoring
GERALD INGLANGASUK, SAMMY LENNIE and LENNIE EMAGHOK

3:45 PM – 4:00 PM
THU. DEC. 13 | Beyond translating and data collecting: Furthering local research and community-based monitoring in the Kivalliq
EZRA GREENE

4:00 PM – 4:15 PM
THU. DEC. 13 | A literature review on refining ethics guidelines for conducting meaningful community-based, northern-led, youth-driven research in Cambridge Bay, NU
MARGARET AMOS

4:15 PM – 4:30 PM
THU. DEC. 13 | Community-based monitoring and data sovereignty: Learning through the ELOKA and INTAROS networks
NOOR JOHNSON

4:30 PM – 4:45 PM
THU. DEC. 13 | Stacks, racks, and superhacks: Community-based monitoring in the digital Age
PETER EVANS

TECH02. IEEE Arctic and Northern Ocean Forum – Remote Sensing and Modeling for the North **ROOM 204**

Chairs: Dustin Isleifson, Wooil Moon and Ian Jeffrey

3:30 PM – 3:45 PM THU. DEC. 13	Remote sensing of oil spills in a sea ice environment: Investigations on oil composition and mitigation potential DURELL DESMOND
3:45 PM – 4:00 PM THU. DEC. 13	Enhanced Capacity for Oil Spill Situational Awareness and Response in Nunavut (ECOSAR) IGOR ZAKHAROV
4:00 PM – 4:15 PM THU. DEC. 13	Measurements of the Polarized BRDF of Arctic Macroalgae with Applications to Modelling Underwater LiDAR ERIC REHM
4:15 PM – 4:30 PM THU. DEC. 13	Coordinated ground and airborne measurements of snow structure and microwave brightness temperatures over tundra RICHARD ESSERY
4:30 PM – 4:45 PM THU. DEC. 13	High resolution NEMO modelling for the North with the ANHA configuration PAUL MYERS

POL04. Extractive Industries and Sustainable Livelihoods in the Arctic **ROOM 209**
Chairs: Thierry Rodon and Stephan Schott

3:30 PM – 3:45 PM THU. DEC. 13	Corporate social responsibility and consent. Comparative perspectives on moral issues of the mining industry in New Caledonia and Canada. CLAIRE LEVACHER
3:45 PM – 4:00 PM THU. DEC. 13	Mining revenues and Inuit business development in the Eastern Canadian Sub-Arctic ANTENEH BELAYNEH
4:00 PM – 4:15 PM THU. DEC. 13	The impact of major mining projects on Inuit employment and residency in the Eastern Canadian Sub-Arctic STEPHAN SCHOTT

MAR02. Arctic Marine Mammals **ROOM 210**
Chairs: Lisa Loseto and Steve Ferguson

3:30 PM – 3:45 PM THU. DEC. 13	Determining the energetic consequences of terrestrial foraging on seaduck eggs in an apex marine predator, the polar bear PATRICK JAGIELSKI
3:45 PM – 4:00 PM THU. DEC. 13	Variation in diet and weaning age among narwhals (<i>Monodon monoceros</i>) using stable isotope analysis of dentine from embedded tusks SHU-TING ZHAO
4:00 PM – 4:15 PM THU. DEC. 13	Diet composition of ringed seals (<i>Pusa hispida</i>) in Hudson Bay revealed using stable isotopes CASSANDRA DEBETS
4:15 PM – 4:30 PM THU. DEC. 13	Co-design of a less invasive method for tagging Eastern Beaufort Sea beluga whales (<i>Delphinapterus leucas</i>) LISA LOSETO
4:30 PM – 4:45 PM THU. DEC. 13	SARAH FORTUNE

TER05.**From Causes to Consequences: Understanding Permafrost Dynamics and Their Influence on Ecosystems and Communities – Canadian Permafrost Association****ROOM 211***Chairs: Ashley Rudy, Antoni Lewkowicz, Carolyn Gibson and Anne-Marie LeBlanc*

- 3:30 PM – 3:45 PM
THU. DEC. 13 | Phase change and water movement in shallow permafrost inferred from borehole observations of liquid water content and temperature near Yellowknife, Canada
STEPHAN GRUBER
- 3:45 PM – 4:00 PM
THU. DEC. 13 | Calibrating permafrost models using temperature time series obtained from laboratory soil column experiments
NICHOLAS BROWN
- 4:00 PM – 4:15 PM
THU. DEC. 13 | Lake shoreline evolution and permafrost-related drivers, rankin inlet, Nunavut
ANNE-MARIE LEBLANC
- 4:15 PM – 4:30 PM
THU. DEC. 13 | Identifying, monitoring and implementing adaptation measures for permafrost degradation in a community outreach perspective in Kugluk Territorial Park, Nunavut
MARC-ANDRÉ DUCHARME
- 4:30 PM – 4:45 PM
THU. DEC. 13 | Incorporating local traditional knowledge to improve permafrost studies
FABRICE CALMELS
- 4:45 PM – 5:00 PM
THU. DEC. 13 | Near real-time climate and permafrost data integration in support of the development of the community of Salluit, Nunavik
SARAH GAUTHIER

MAR07.**Natural Laboratories as a Tool for Predicting Ecosystem Response to Future Arctic Change****ROOM 212***Chairs: Victoria Peck and Gerald Darnis*

- 3:30 PM – 3:45 PM
THU. DEC. 13 | Underwater noise in the Arctic: A state of knowledge review
STEPHEN INSLEY
- 3:45 PM – 4:00 PM
THU. DEC. 13 | The Canadian Arctic marine microbiome and its potential for hydrocarbon bioremediation in the Northwest passage and Hudson Bay
MARIA A. BAUTISTA
- 4:00 PM – 4:15 PM
THU. DEC. 13 | Quantifying plankton and plastic composition through the Northwest passage and Atlantic Arctic gateway
JONATHAN FISHER
- 4:15 PM – 4:30 PM
THU. DEC. 13 | Ocean acidification and biological activity in the Canadian Arctic: Insights from the carbonate system
ALEXIS BEAUPRÉ-LAPERRIÈRE
- 4:30 PM – 4:45 PM
THU. DEC. 13 | Pteropod *L. helicina* as a sentinel for ocean acidification impact on Arctic ecosystems
VICTORIA PECK
- 4:45 PM – 5:00 PM
THU. DEC. 13 | Impact of ocean acidification and microplastics of ecosystems in the Canadian Arctic Archipelago - One year on.
VICTORIA PECK

MAR04.

Fisheries, Fishes, and Their Ecosystems in a Changing Arctic

**OTTAWA
SALON**

Chairs: Maxime Geoffroy, Dominique Robert and Andrew Majewski

3:30 PM – 3:45 PM
THU. DEC. 13

Microbial Ecology of traditionally Important Arctic Salmonids in Kitikmeot, Nunavut
GERAINT ELEMENT

3:45 PM – 4:00 PM
THU. DEC. 13

Allocation and Sub-Allocation of Nunavut Adjacent Commercial Fisheries Resources
CARIE HOOVER

4:00 PM – 4:15 PM
THU. DEC. 13

Salmon of the deep sea: First evidence for inter annual site fidelity in Greenland halibut (*Reinhardtius hippoglossoides*)
AMANDA BARKLEY

4:15 PM – 4:30 PM
THU. DEC. 13

Dinoflagellate communities of the Canadian Arctic
FATMA DHIFALLAH

4:30 PM – 4:45 PM
THU. DEC. 13

Mapping the Canadian Arctic marine ecosystem – A microbiological approach
SRIJAK BHATNAGAR

4:45 PM – 5:00 PM
THU. DEC. 13

Hotspots of vulnerability to marine invasive species introductions: Insights from habitat suitability modelling under current and projected climate change scenarios
KIMBERLEY L. HOWLAND

IHEA11

Voices from the North – Candid Inuit Post-Secondary Education Student Experiences

ROOM 102

Chairs: Alyssa Flaherty-Spence and Elise Ho-Foong

3:30 PM – 3:45 PM
THU. DEC. 13

IAN MCLEOD

3:45 PM – 4:00 PM
THU. DEC. 13

ROMANI MAKKIK

4:00 PM – 4:15 PM
THU. DEC. 13

LUCINA GORDON

4:15 PM – 4:30 PM
THU. DEC. 13

JOANNE VOISEY

FRIDAY, DECEMBER 14, 2018

8:30 AM - 10:00 AM

9 Parallel Sessions

POL05.

How Forms of Alternative Tourism, Such As Ecotourism, Can Provide Sustainable Development Opportunities for Arctic Communities

ROOM 201

Chairs: Dawn R. Bazely and Lisa Rankin

8:30 AM – 8:45 AM FRI. DEC. 14	How well can sustainable tourism improve the human security of local peoples in the Arctic? DAWN BAZELY
8:45 AM – 9:00 AM FRI. DEC. 14	On the similarities and differences in the Ecotourism challenges facing West Bengal, India and Nunavut, Canada DAWN BAZELY
9:00 AM – 9:15 AM FRI. DEC. 14	Archaeology and alternative tourism in Nunatsiavut LISA RANKIN
9:15 AM – 9:30 AM FRI. DEC. 14	The implications of climate change for polar bear tourism in Churchill Canada JAMIE D'SOUZA
9:30 AM – 9:45 AM FRI. DEC. 14	Walking the talk on integrating sustainable tourism principles into an Arctic-focussed Canadian family business: The case and experiences of Adventure Canada DAVID NEWLAND

MAR06. Mapping Twenty Thousand Years of Arctic Marine Change: Deglaciation to Present **ROOM 202**

Chairs: Mark Furze, Jean-Carlos Montero-Serrano and Anna Pieńkowski

8:30 AM – 8:45 AM FRI. DEC. 14	Mapping the Canadian Arctic seafloor DOMINIQUE ST-HILAIRE
8:45 AM – 9:00 AM FRI. DEC. 14	Deglacial responses in the channels of the western and central Canadian Arctic: A Younger Dryas signal? MARK FURZE
9:00 AM – 9:15 AM FRI. DEC. 14	Post-glacial climatic and environmental changes in the Fury and Hecla Strait Region based on biological and geochemical proxies MARC-ELIE ADAÏMÉ
9:15 AM – 9:30 AM FRI. DEC. 14	Thin section analysis of a marine core from M'Clintock channel, Northwest territories: micromorphological evidence for mass flows and ice shelf grounding events ROBERT TROYER-RIEL
9:30 AM – 9:45 AM FRI. DEC. 14	Sedimentary dynamics of the Belcher Glacier (Devon Ice Cap, Nunavut) during the last centuries JADE BROSSARD
9:45 AM – 10:00 AM FRI. DEC. 14	Distribution and origin of major and trace metals and polycyclic aromatic hydrocarbons in surface sediments from the Canadian Arctic Archipelago ANNE CORMINBOEUF

IHEA03. Community Adaptation and Vulnerability in the Arctic Regions **ROOM 203**

Chairs: Tristian Pearce and James Ford

8:30 AM – 8:45 AM FRI. DEC. 14	Local adaptive capacity for avalanche risk and infrastructure disruption in Troms, Northern Norway JULIA OLSEN
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8:45 AM – 9:00 AM FRI. DEC. 14	Can an Arctic turbot fishery adapt to climate change? An empirical study from the Pangnirtung coastal community in Baffin Island, Nunavut, Canada. ERANGA GALAPPATHTHI
9:00 AM – 9:15 AM FRI. DEC. 14	Everything is changing so much: Aklavik's shifting beluga whale harvest ELIZABETH WORDEN
9:15 AM – 9:30 AM FRI. DEC. 14	Nunamin Illihakvia: Learning from the land TRISTAN PEARCE
9:30 AM – 9:45 AM FRI. DEC. 14	Ilagiilluta – "Let's Be a Family" Program, Nunavik FAISCA RICHER

IHEA01.

Addressing Arctic Housing Challenges

ROOM 204

Chairs: Carsen Banister and William Semple

8:30 AM – 8:45 AM FRI. DEC. 14	Architectural adaptations: research, design, and possible futures in the North PAUL MCBRIDE
8:45 AM – 9:00 AM FRI. DEC. 14	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) SAMI TANNOURY
9:00 AM – 9:15 AM FRI. DEC. 14	Optimization of Indoor Air Quality (IAQ) parameters in Nunavik dwellings and its impact on the respiratory health of residents (project vent-Nunavik): microbiological part JODELLE DEGOIS
9:15 AM – 9:30 AM FRI. DEC. 14	Feasibility of achieving near-net zero construction in Canada's North CATE SOROCZAN
9:30 AM – 9:45 AM FRI. DEC. 14	Local perspectives on healthy aging in an Inuit community, Nunavut MARIE BARON
9:45 AM – 10:00 AM FRI. DEC. 14	Feeling at home and being housed in Nunavut and Nunavik: Two distinct determinants of Inuit health KARINE PERREAULT

TER01.

Arctic Ecosystems and Wildlife

ROOM 209

Chairs: Jesper Bruun Mosbacher and Jean-Pierre Desforges

8:30 AM – 8:45 AM FRI. DEC. 14	Could climate warming in the High-Arctic lead to overheating in a cold specialist? JUSTINE DROLET
8:45 AM – 9:00 AM FRI. DEC. 14	Observational and experimental evidence for compensatory effects of climate change on arctic-nesting shorebirds LAURA MCKINNON
9:00 AM – 9:15 AM FRI. DEC. 14	Studies on the nutritional ecology and behaviour of polar bears under human care MALCOLM GLENNIE

- 9:15 AM – 9:30 AM
FRI. DEC. 14 | Improving terrestrial predators' diet assessments with rodent mandibles
DOMINIQUE FAUTEUX
- 9:30 AM – 9:45 AM
FRI. DEC. 14 | Caribou on the menu: Diet reconstruction of wolves and black bears across the ranges of migratory caribou in northern Québec-Labrador
MICHAËL BONIN
- 9:45 AM – 10:00 AM
FRI. DEC. 14 | Characterization of dust emissions from an actively retreating glacier in the Canadian Yukon
JILL BACHELDER

TER07.

Glacier Changes: Spatial and Temporal Variability

ROOM 210

Chairs: Laura Thomson and Luke Copland

- 8:30 AM – 8:45 AM
FRI. DEC. 14 | A slippery slope: The interactions between ice and water driving the future of our ice sheets and glaciers
CHRISTINE DOW
- 8:45 AM – 9:00 AM
FRI. DEC. 14 | Canadian Arctic leads glacier and ice cap contributions to global sea level rise in new 2006-2016 mass balance assessment
LAURA THOMSON
- 9:00 AM – 9:15 AM
FRI. DEC. 14 | Atmospheric forcing of rapid marine-terminating glacier retreat in the Canadian Arctic Archipelago
ALISON COOK
- 9:15 AM – 9:30 AM
FRI. DEC. 14 | Jan Mayen glacier fluctuations
JADE COOLEY
- 9:30 AM – 9:45 AM
FRI. DEC. 14 | Scaling Arctic glacier mass balance using satellite optical albedo
SCOTT WILLIAMSON
- 9:45 AM – 10:00 AM
FRI. DEC. 14 | Multi-annual Analysis of the Greenland Ice Sheet between 2010 and 2017 based on TanDEM-X DEM Data
ACHIM ROTH

MAR03.

Climate Change Impacts on the Arctic Ocean on Multiple Scales in Space and Time

ROOM 211

Chairs: Will Perrie and David Atkinson

- 8:30 AM – 8:45 AM
FRI. DEC. 14 | Connections of Spring Atmospheric Pacific-Arctic Mode with Summer Beaufort ice
WILL PERRIE
- 8:45 AM – 9:00 AM
FRI. DEC. 14 | Spatial variability of winter ice velocities in response to wind and ocean current forcing in the Canadian Beaufort Sea
DAVID FISSEL
- 9:00 AM – 9:15 AM
FRI. DEC. 14 | Sea surface temperature variability in the North Water Polynya
RON VINCENT
- 9:15 AM – 9:30 AM
FRI. DEC. 14 | The distribution of bioactive trace metals through the Canadian Arctic measured during the GEOTRACES Program
JAY CULLEN

9:30 AM – 9:45 AM | Year-round atmospheric and oceanic measurements to better understand air-sea CO2 exchange in the Arctic
FRI. DEC. 14 | BRENT ELSE

POL09. UK-Canada Arctic Research Cooperation in Action: 2018 Bursary Programme ROOM 212
Chairs: Henry Burgess and Jane Francis

8:30 AM – 8:45 AM | UK-Canada Arctic Research Cooperation - past, present and future
FRI. DEC. 14 | HENRY BURGESS

8:45 AM – 9:00 AM | Initiating a Continuous Plankton Recorder survey to monitor the gradient of change across the Western-Canadian Arctic
FRI. DEC. 14 | CLARE OSTLE

9:00 AM – 9:15 AM | Direct dating of gold-associated geological faults in the Arctic Canadian Cordillera, Yukon Territory
FRI. DEC. 14 | CATHERINE MOTTRAM

9:15 AM – 9:30 AM | Reconstructing the deglacial history of the Labrador Ice Dome on the Ungava Peninsula, Nunavik, Northern Canada
FRI. DEC. 14 | PAUL DUNLOP

9:30 AM – 9:45 AM | Quantifying the mechanisms and wider impacts of accelerated erosion in ice-rich permafrost coasts
FRI. DEC. 14 | MICHAEL LIM

9:45 AM – 10:00 AM | Capturing the landscape-context of long-term tundra vegetation change
FRI. DEC. 14 | ISLA MYERS-SMITH

POL01. Arctic Data Management, Access and Interoperability: Advances in National and International Programs and Initiatives ROOM 102
Chairs: Maribeth Murray, Peter Pulsifer and David Arthurs

8:30 AM – 8:45 AM | A Nunaliit atlas of the Inuit language
FRI. DEC. 14 | KUMIKO MURASUGI

8:45 AM – 9:00 AM | Inuit-driven social media and research tools on the SIKU.org platform: Developing an approach to features, intellectual property and data stewardship that benefits long-term Inuit self-determination.
FRI. DEC. 14 | JOEL HEATH

9:00 AM – 9:15 AM | The Canadian Consortium for Arctic Data Interoperability: Connecting Canadian Arctic Data Infrastructures
FRI. DEC. 14 | MARIBETH MURRAY

9:15 AM – 9:30 AM | Mobilizing water data for decision-making and shared water stewardship: DataStream's collaborative open data initiative
FRI. DEC. 14 | LINDSAY DAY

9:30 AM – 9:45 AM | Aboriginal Liaison Program at Statistics Canada
FRI. DEC. 14 | STEPHANIE KOOTOO-CHIARELLO

9:45 AM – 10:00 AM | New Open High-Resolution Digital Elevation Models in Canada's North: Leveraging the ArcticDEM initiative
FRI. DEC. 14 | CHARLES PAPASODORO