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ARCTICNET ԾՐՔՆԵՐԻ ՎՊՐԱՆՈՒՄ

ANNUAL REPORT • ՎՋԵՂ ԾՐՔՆԵՐ • RAPPORT ANNUEL



Coming together in the study
of the changing Canadian Arctic.

Միասնաբերաբար մշակելու էք
մեր հայրենի Արկտիկայի փոփոխումները:

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ensemble à l'étude de l'Arctique
canadien de demain.

canadien de demain.



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Corporate Profile

Understanding the present transformation of the Arctic environment and anticipating its consequences is one of the great challenges faced by Canadians, the Canadian government and the national and international scientific communities. In Canada, climate warming will have tremendous environmental, socio-economic and strategic consequences that will be felt first and most severely in Arctic communities and regions.

ArcticNet brings together scientists and managers in the natural, human health and social sciences with their partners in Inuit organizations, northern communities, government and industry to help Canadians face the impacts and opportunities of climate change and globalization in the Arctic. Over 100 ArcticNet researchers and 300 graduate students, post-doctoral fellows, research associates and technicians from 28 Canadian universities and five Federal departments are collaborating on 27 research projects with more than 100 partner organizations from Canada, the USA, Japan, Denmark, Norway, Poland, the United Kingdom, Spain, Russia, Greenland and France.

Our Vision

A future where knowledge exchange, monitoring, modeling and capacity building will have enabled scientists, Northerners and decision makers to jointly attenuate the negative impacts and maximize the positive outcomes of the transformation of the Canadian Arctic.

Our Mission

- To build synergy among existing Centres of Excellence in the natural, human health and social Arctic sciences.
- To involve Northerners, government and industry in the steering of the Network and scientific process through bilateral exchange of knowledge, training and technology.
- To increase and update the observational basis needed to address the ecosystem-level questions raised by climate change and globalization in the Arctic.
- To provide academic researchers and their national and international collaborators with stable access to the coastal Canadian Arctic.
- To consolidate national and international collaborations in the study of the Canadian Arctic.
- To contribute to the training of the next generation of experts, from north and south, needed to study, model and ensure the stewardship of the changing Canadian Arctic.
- To translate our growing understanding of the changing Arctic into impact assessments, national policies and adaptation strategies.



Dr. Louis Fortier,
*Scientific Director,
President and CEO*

Mr. Bernie Boucher,
*Chair of the Board of
Directors*

Dr. Martin Fortier,
*Executive Director,
Vice-President and COO*

Message from the Chair of the Board, Scientific Director and Executive Director

Earth's lower atmosphere was again abnormally warm this past year, with 2005 being the hottest year on record in the Northern Hemisphere. In line with the trend observed by satellites since 1978, the extent of the central Arctic ice pack also reached its record minimum in September 2005. Combined with the widespread regression of glaciers and the accelerating melt of the Greenland Inlandsis, the spectacular shrinking of the Arctic sea ice cover strongly suggests that the rapid shift in the climate of the Northern Hemisphere anticipated by numerical simulations could occur faster than expected.

True to its mandate, ArcticNet has been particularly active in building awareness of the impacts that the ongoing warming and modernization of the Arctic will have on

Canada's northern ecosystems, economies and societies. At the national level, Network Investigators have organized several successful workshops co-sponsored by ArcticNet to bring scientists, stakeholders and policy makers together, including From Research to Action (Ottawa, November 2005); Legal Aspects of Climate Change in Canada's North (Montreal, December 2005); Communicating Change: Refining Climate Change Terminology in Inuktitut and Inuinnaqtun (Iqaluit and Kugluktuk, fall of 2005); and, more recently, Canada's Arctic Waters in International Law and Diplomacy (Ottawa, June 2006). Among many contributions of the Network at the international level, Dr. Louis Fortier, Scientific Director, and Dr. Robert Corell, Board Member, have discussed Arctic issues with high ranking officials and elected representa-

“*Influencing Arctic policy in Canada and abroad*”

tives of many countries at prestigious venues, such as the Friends of Europe Café Crossfire (European Parliament, Brussels) and the How Changes in the Arctic Climate are Affecting the Rest of the World workshop (US Senate, Washington) sponsored by the Norwegian Embassy.

Such inputs to the national and international debate on the transformation of the Arctic are rooted in the solid and extremely productive trans-sectoral research program of ArcticNet that cuts across the environmental, health and social sciences. As ArcticNet completes its second year of operation, researchers are increasingly convinced of the importance of this multisectoral approach. Several workshops have been conducted in 2005-2006 to advance the Integrated Regional Impact Studies (IRIS) framework that will allow the Network Investigators to focus their collective expertise at the community and regional scales. These are the scales at which the regional assessments of impacts produced by the IRISes will enable policy makers to develop effective adaptation strategies for the coastal Canadian Arctic.

The Management of the Network is now fully operational and has been very active in steering ArcticNet. After serving on the Research Management Committee (RMC), Duane Smith now represents the Inuit Circumpolar Conference on the Board of Directors, replacing Sheila Watt-Cloutier, whose invaluable contributions to the Network and the Arctic climate change issue

are well heralded. Russel Shearer, Director of the Northern Contaminants Program, has joined the RMC, along with Philippe Lavallée of Nunavut Tunngavik Incorporated and Larry Carpenter of the Inuvialuit Joint Secretariat, who further consolidate the strong Inuit participation in ArcticNet.

Among the many positive outcomes of the Network's development, the year 2005-2006 has witnessed:

- A spectacular growth in the cash (+20%) and in-kind (+93%) contributions of our partners to the research effort of ArcticNet, including major investments by Manitoba Hydro;
- A 75% increase (from 120 to 210) in the number of graduate students conducting their research as part of the Network;
- Unprecedented access of researchers to the Canadian Arctic, including over 100 Network Investigators, students and technicians participating in the 2005 expedition on the CCGS Amundsen;
- The publication of over 350 refereed and non-refereed publications by ArcticNet Network Investigators and students;
- The funding of six new research projects to address knowledge gaps in the legal and policy implications of Arctic warming and to support northern leadership in climate change research;

“ArcticNet is there to help keep Canada at the leading edge in all fields of Arctic research and to ensure that Canada’s need for timely, in-depth assessments of the Arctic situation are fulfilled.”

- Increased attendance to our Annual Scientific Meeting, which is now confirmed as Canada’s largest and most comprehensive Arctic science meeting;
- The successful launch of ArcticNet’s Training Fund, which supported, among others, the participation of ArcticNet’s students in the summer school onboard the Russian icebreaker Kapitan Dranitsyn in the Russian Arctic;
- The consolidation of crucial partnerships with Manitoba Hydro, OmniTRAX and our Inuit partners, including Inuit Tapiriit Kanatami, the Inuit Circumpolar Conference Canada, Inuvialuit Regional Corporation, Nunavut Tunngavik Incorporated, Makivik Corporation, and the Nunatsiavut Government;
- Excellent exposure of the Network’s activity in the media, culminating with recognition of its role by former Prime Minister Brian Mulroney and by Time Canada.

At the 2005 Annual Scientific Meeting in Banff, Board Director Duane Smith of Inuvik, NT declared to the audience, “We are all in this together; one part cannot work without the other”. The networking made pos-

sible by ArcticNet has tremendously leveraged the research conducted in the coastal Canadian Arctic by the best teams in Canada. Thanks to the partnerships developed with Inuit, government and industry, we are moving quickly towards the formulation of the regional impact assessments that are needed to minimize the negative impacts and maximize the benefits of the ongoing transformation of the Arctic.

Climate change and the Arctic are clearly moving to the top of national and international agendas. ArcticNet is there to help keep Canada at the leading edge in all fields of Arctic research and to ensure that Canada’s need for timely, in-depth assessments of the Arctic situation are fulfilled. We look forward to the new and exciting research programs and partnerships that will develop during the upcoming International Polar Year (IPY) to help propel the present Canadian Arctic research momentum, further develop our international collaborations and provide an excellent opportunity for Northerners to become further engaged in the research process.





Mr. Jose A. Kusugak,
*Co-Chair of the Board of
Directors and President,
Inuit Tapiriit Kanatami*

Message from the Co-Chair of the Board

Some time ago, our floe edge sealing party and I were travelling by ski-doo on the ice. Having had some success harvesting animals, we were anxious to get back home to Rankin Inlet to share this food with our family. Only then did I realize that we had been “uukkarujjaujuq” (cut off from ice and drifting) and could not cross the water that separated us from our community. Sitting there, cut off from the land with my

family, it occurred to me how quickly this once familiar world has changed to become dangerously unpredictable.

We have always had words like “uukkarujjaujiniq” for environmental changes like those that describe shifting ice, but Inuit do not have a word to describe how these changes are happening so fast and differently than in the past.

The Arctic environment is changing rapidly; this we have experienced ourselves. We also have several credible scientific studies, like the Arctic Climate Impact Assessment and the International Panel on Climate Change reports that support our knowledge and experience. Climate change and contaminants are now a part of our new relationship with the environment, and we strive to use our knowledge, experience and observations as best we can. Inuit are highly resilient and adaptive people, but the rate of change in the Arctic continues to test us. We need the best research and information to begin to address these rapid changes.

I have had the good fortune to have been President of Inuit Tapiriit Kanatami (ITK) for six years, and now that this presidency comes to a close, so, too, does my term as Co-Chair for the ArcticNet Board of Directors. I always find it useful to reflect for a moment on just how far ArcticNet and Inuit have come in this partnership.

ArcticNet has conducted stellar Arctic research in addressing its goals and objectives. It made great strides to move away from the traditional southern scientific approach of conducting research on the “Arctic” and “Inuit” as subjects and sending the scientific information south, to one that is conducting research with Inuit. ArcticNet is moving forward to involve Inuit in every aspect of the program so that Inuit concerns and priorities can be addressed.

ArcticNet is building a generation of Inuit researchers through the Schools on Board program, Northern Partnership Initiatives and the ArcticNet Student Association. Inuit students are also able to access ArcticNet’s Highly Qualified Personnel and the ArcticNet Training Fund.

Inuit, over time, have become involved in all levels of ArcticNet to ensure they can provide insights and benefit from the research. This includes developing an Inuit Advisory Committee and Inuit Research Advisors, and being part of the Research Management Committee and the Board of Directors.

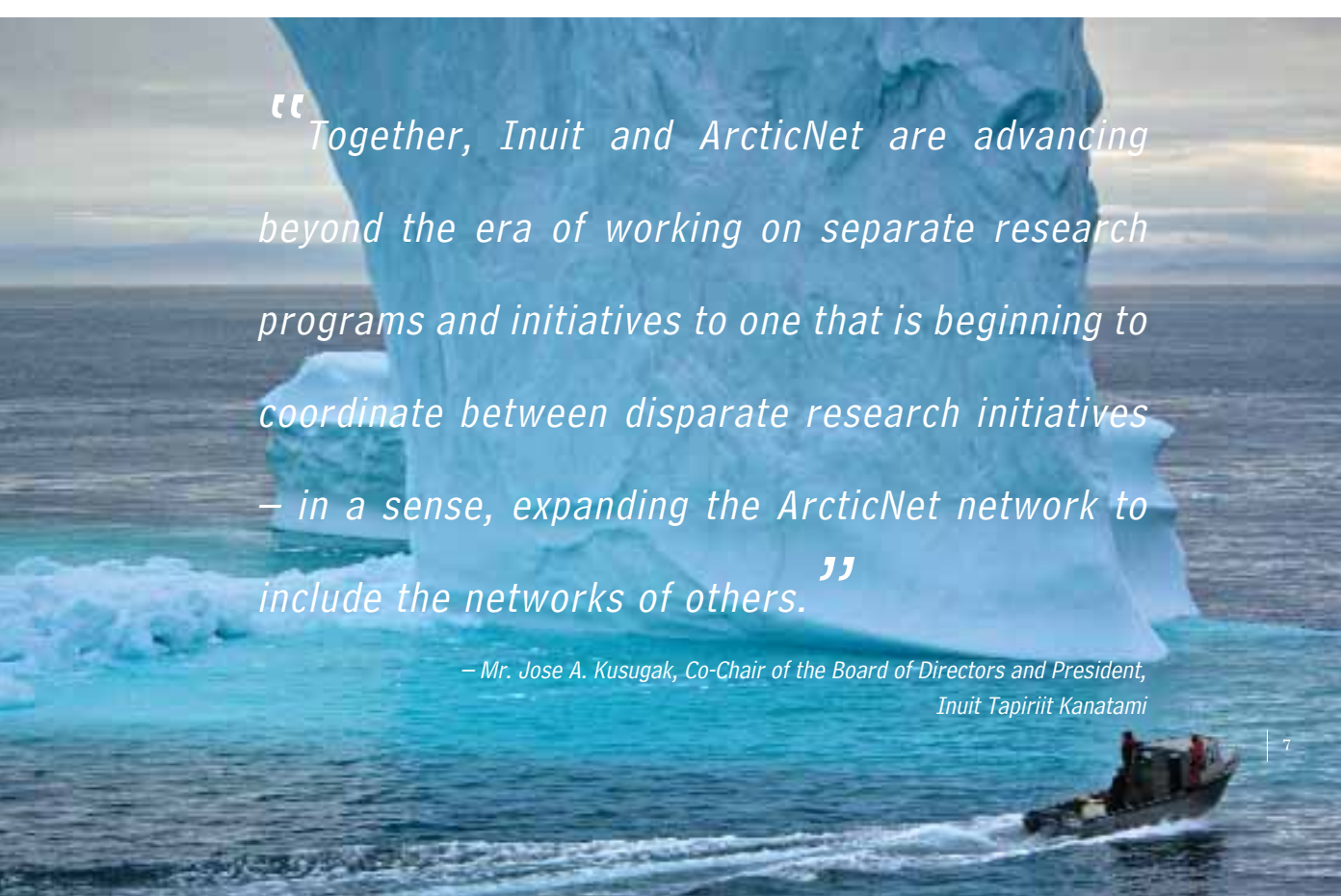
Over the past three decades ITK has spent a considerable amount of time communicating complicated scientific information back to Inuit in a culturally appropriate manner so that Inuit can make informed decisions. The success of this communication hinges

on a network that spans international, national, regional and community levels. ArcticNet has invested in this network to ensure that Inuit priorities and needs are central in the evolution of the program. Together, Inuit and ArcticNet are advancing beyond the era of working on separate research programs and initiatives to one that is beginning to coordinate between disparate research initiatives – in a sense, expanding the ArcticNet network to include the networks of others. This type of coordination of research in the Arctic will be of great importance, given the upcoming International Polar Year and the large influx of researchers entering the Canadian Arctic from many countries.

It is vital, more now than ever, that Inuit remain active participants in an emerging

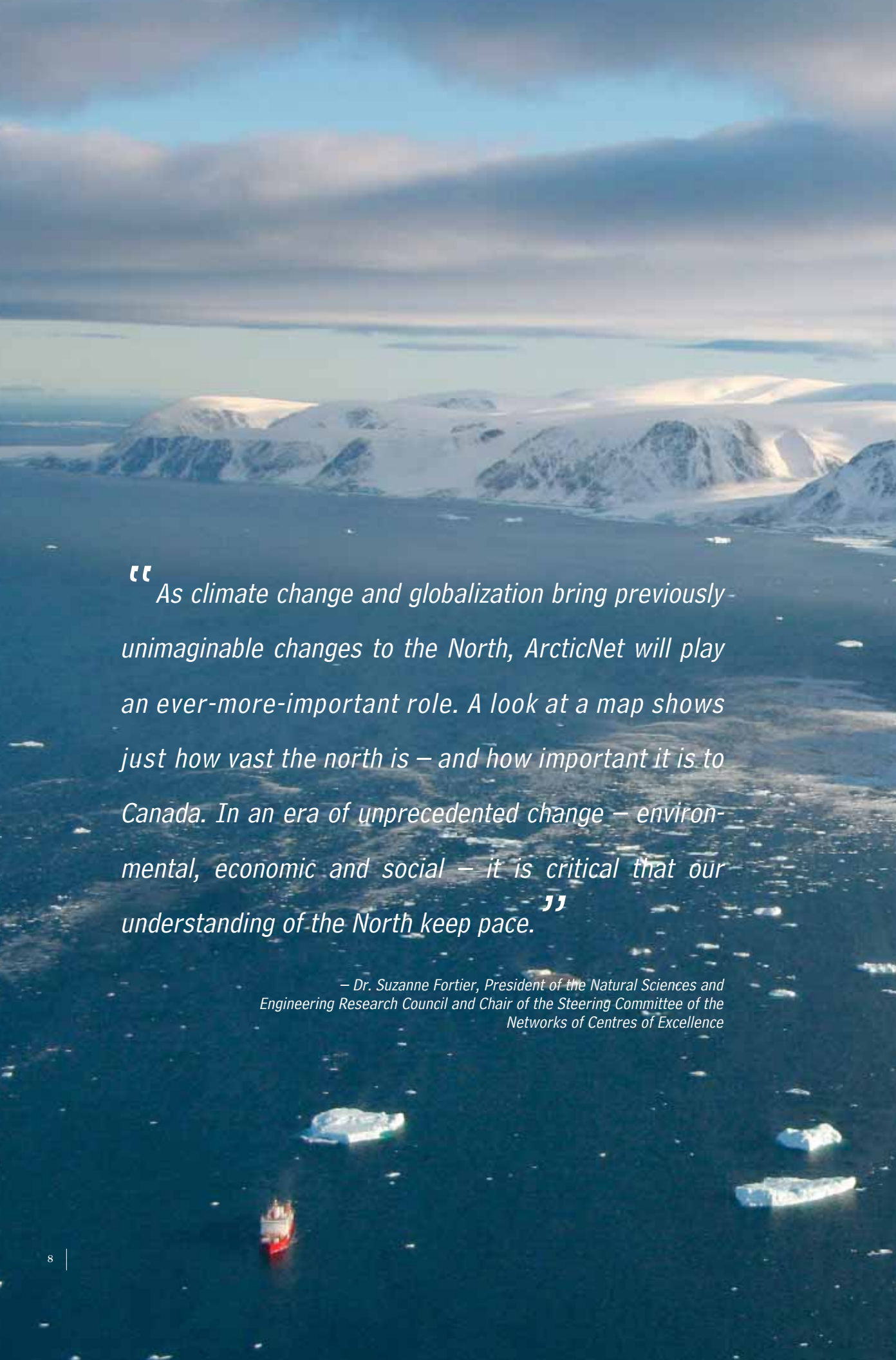
Arctic research agenda. Inuit provide insights to help conceptualize, direct, conduct and analyze the observations and data generated in our homeland, in order that we may understand and adapt to rapidly changing environmental conditions – in a sense, to get us home safely so that we can share our country food with our family, as we have always done.

I have enjoyed my term as the ArcticNet Board of Directors Co-Chair. I would like to acknowledge the hard work and important contributions of my colleagues on the Board and all those who have worked closely with ArcticNet. Together we have addressed many complex issues. I wish continued success to the new Inuit Board member who replaces me, and to ArcticNet as an important research partnership with Inuit.



“ Together, Inuit and ArcticNet are advancing beyond the era of working on separate research programs and initiatives to one that is beginning to coordinate between disparate research initiatives – in a sense, expanding the ArcticNet network to include the networks of others. ”

*– Mr. Jose A. Kusugak, Co-Chair of the Board of Directors and President,
Inuit Tapiriit Kanatami*



“ As climate change and globalization bring previously unimaginable changes to the North, ArcticNet will play an ever-more-important role. A look at a map shows just how vast the north is – and how important it is to Canada. In an era of unprecedented change – environmental, economic and social – it is critical that our understanding of the North keep pace. ”

– Dr. Suzanne Fortier, President of the Natural Sciences and Engineering Research Council and Chair of the Steering Committee of the Networks of Centres of Excellence

ArcticNet Research: Building Synergy and Improving Access



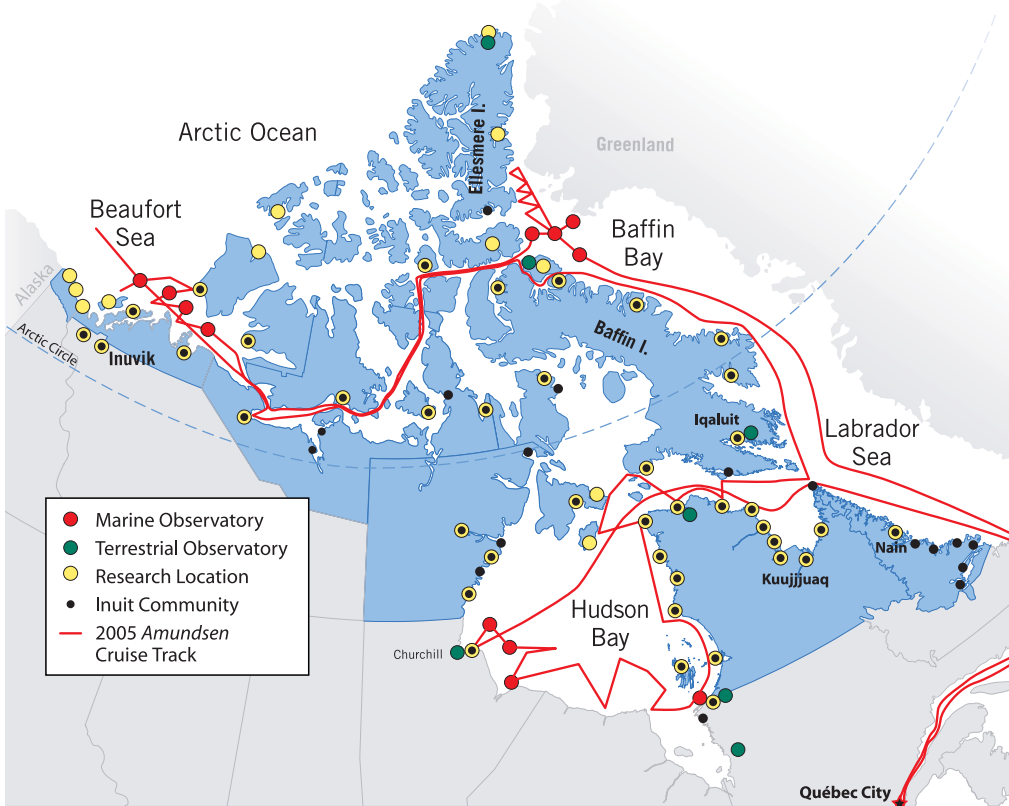
Theme Leaders: Éric Dewailly, Warwick Vincent, Dave Barber and Gordon McBean with Scientific Director Louis Fortier (centre)

Earth's climate is warming and the increase in average global temperature predicted by climate models will be amplified at Arctic latitudes. In Canada, climate warming will have tremendous environmental, socio-economic and strategic consequences that will be felt first and most severely in the Arctic. Warmer temperatures and permafrost thawing will affect transportation routes and infrastructure. Shrinking coastal sea ice opens the way for increased shipping and access to the region's natural resources. Already, reduced coastal sea ice is hindering traditional hunting by Inuit, shrinking the habitat of the unique Arctic fauna and increasing the exposure of coastal communities to storms. Addressing these cascading issues requires that researchers transcend the boundaries of scientific disciplines, share information and resources, and focus on effective management options.

ArcticNet's trans-sectoral research program brings together scientists in the natural, human health and social sciences with their partners in Inuit organizations, northern communities, federal and provincial agencies and the private sector to study the impacts of climate change in the coastal Canadian Arctic.

Working in 27 research projects structured into four Research Themes, ArcticNet researchers and their partners are focused towards producing Integrated Regional Impact Studies (IRIS) of the consequences of change on society and ecosystems in the coastal Canadian High Arctic, Eastern Arctic and Hudson Bay. An IRIS summarizes and combines knowledge and models of relevant aspects of the ecosystems of a region affected by change, with the objective of producing a prognosis of the magnitude and socio-economic costs of the impacts of change. The knowledge gained through this research process aids policy and decision makers in the development of policies and strategies for adapting to a changing Arctic environment.

While land based field work was facilitated through the vital logistical support from partner institutions, such as the Polar Continental Shelf Project, Québec-Océan, the Centre d'études nordiques and northern research institutes, the Canadian research icebreaker CCGS Amundsen was the main research infrastructure used by ArcticNet scientists to access the vast maritime Canadian Arctic.



Leaving Québec City on 5 August 2005, the 84-day ArcticNet expedition onboard the CCGS Amundsen involved 100 Network Investigators, students and technicians from ten Canadian universities, three federal departments (Fisheries and Oceans, Environment Canada and Natural Resources Canada) and four foreign institutions from Japan and the United Kingdom.

ArcticNet scientists sampled at over 200 oceanographic stations distributed throughout the coastal Canadian Arctic, in a geographical area extending from the Beaufort Sea in the west to the coast of Greenland in the east, and from Nares Strait in the north to James Bay in the south. From viruses to whales and from the upper atmosphere to beneath the ocean floor, the myriad of physical, biologi-

cal and geological measurements taken at each station reflects the multidisciplinary and comprehensiveness of the ArcticNet research program.

Throughout the 28,000 km voyage, surface water properties, high-resolution bathymetry, zooplankton and fish abundance, sea-surface microwave and optical properties, atmospheric contaminants and herbicide levels were among the numerous parameters monitored using the ship's impressive array of continuous sampling equipment. Moreover, the network of marine observatories established in 2004 was expanded by servicing the four western Arctic oceanographic moorings and successfully deploying eight additional moorings in northern Baffin Bay and Hudson Bay.

“*The Amundsen has made Canada a world leader in the field of Arctic research. The multidisciplinary research made possible by the Amundsen allows Canada to develop effective strategies and policies surrounding critical issues such as climate change, Arctic ecology and the health of our northern communities.*”

– Dr. Eliot Phillipson, President and CEO of the Canada Foundation for Innovation



Climate Change Impacts in the Canadian High Arctic: A Comparative Study Along the East-West Gradient in Physical and Societal Conditions

The limited observations and measurements available from high Arctic latitudes are generally consistent with the warming trends predicted by climate models. However, much uncertainty and discrepancies between models and observations remain.

Using a comparative approach, Theme 1 documents the present links between environmental change, health and economy along the contrasted east-west gradient of the Canadian High Arctic. In particular, this Theme will initiate the long-term time series of sea ice cover, ocean properties, plankton production, contaminant loads, fish and mammal abundance, and health and socio-economic indices that are acutely needed to track present variability and future change in Arctic ecosystems and the way of life of Arctic peoples. The enlarged and updated data set generated by Theme 1 will contribute to the formulation of policies and adaptation strategies to help answer the specific needs of stakeholders in the fields of health, economy, geopolitics and industry.

Warming Coastal Seas and Shrinking Sea Ice

Project Leaders: Yves Gratton and David Barber

Working in the marine environment of the Canadian High Arctic, the objectives of this project are to provide long-term detailed observations of the atmospheric, sea ice and ocean dynamics, identify the processes underlying changes in these variables, and provide baseline physical information required to understand the complexities of physical-biological coupling. These objec-

tives will be achieved by correlating satellite records to sub-surface ocean properties recorded by moored instruments.

Coast Vulnerability in a Warming Arctic

Project Leaders: Donald Forbes and Wayne Pollard

In marginal areas of the eastern and western Canadian Arctic, coastal retreat is the dominant form of change potentially placing cultural resources and community infrastructure at risk of damage or loss. Given this risk, the objectives of this project are to: improve the understanding and prediction of relative sea-level change and associated coastal hazards; measure and predict coastal sensitivity to a range of climate-change effects; and assess community and habitat vulnerability to coastal change in a warming Arctic.

Contaminant Cycling in the Coastal Environment

Project Leaders: Robie Macdonald and Gary Stern

The focus of this project is how climate variability will affect organohalogen and trace metal contaminant cycling at strategic locations across an east-west section of the High Arctic. Specifically, this project proposes to relate changes in the biogeochemical cycling of organohalogen and trace metal contaminants to their levels in fish, marine mammals and the people who consume these tissues as part of their traditional diets.



Marine Productivity and Sustained Exploitation of Emerging Fisheries

Project Leaders: Jean-Éric Tremblay and Louis Fortier

It is possible that increasing sea temperature and regressing sea ice will augment biological productivity in Arctic coastal seas, with associated changes in species assemblages, migration patterns, distribution and abundance of exploited and exploitable species. The objectives of this project are to document and anticipate present and future availability of marine renewable resources and to propose management strategies for a sustainable exploitation.

Changes in Dietary Pattern and Impacts on Chronic Diseases Emergence

Project Leader: Éric Dewailly

In recent decades, many changes in lifestyle and dietary patterns have been observed

among Inuit populations where the shift from a traditional lifestyle and diet has been associated with increased prevalence of cardiovascular risk factors, such as obesity, high blood pressure and elevated blood lipids. The main objective of this project is to evaluate the impact of a changing environment (climate, contaminants, globalization, diet, etc.) on the health of Canadian Inuit.

The Opening Northwest Passage: Resources, Navigation, Sovereignty and Security

Project Leader: John Hughes Clarke

As a first step towards the management of increased intercontinental ship traffic and resource exploitation as ice conditions improve, this project will map the bottom topography and geological structure of the Northwest Passage and other regions of the Canadian Archipelago. The objectives of the project are to: compile precise high-resolution bathymetry and seabed geomorphology; and obtain sediment cores of the Holocene record for paleoceanographic analyses at optimal sites in the region.

Canada's Arctic Waters in International Law and Diplomacy

Project Leader: Michael Byers

This multidimensional research team will analyze the legal weight of Canada's claim to the Northwest Passage, the effects of changing ice conditions on the practical possibility of maritime navigation through the Passage, and the potential for persuading other countries to support the Canadian legal claim or otherwise cooperate in regulating the use of the Passage by vessels from all countries.



Food, Water and Resources in the Shifting North-South Thermal Gradient of the Terrestrial Eastern Canadian Arctic

The Theme 2 research program encompasses an extensive north-south gradient in the eastern Canadian Arctic. Theme 2 researchers are working in diverse environments that stretch across 30 degrees of latitude (53 to 83°N), from forest to shrub tundra to high Arctic polar desert, and that span a broad range of climate regimes from a mean annual temperature of 2°C at Kuujuarapik, QC to -20°C at Ward Hunt Island, NU. This region of the eastern Canadian Arctic is home to many Canadians with Inuit communities located along the coast of Nunavut and Nunavik as far north as Grise Fjord, NU. Given the diversity of this region, there is a fundamental need to understand the pattern and impacts of climate change.

With multisectoral expertise in natural science, human health and social sciences, Theme 2 is studying terrestrial systems, including coastal landforms, wetlands and freshwater systems with emphasis on human activities and environmental concerns in the region. Together Theme 2 researchers and their partners are working to determine thresholds, linkages and feedback processes with the objective of producing management tools for improved monitoring and policy development.

Changing Food Diversity, Wildlife Patterns and Exploitation

Project Leaders: Dominique Berteaux and Gilles Gauthier

Given the lack of baseline data on natural systems and the complex interactions between wildlife and humans, the goal of this project is to improve the capacity to measure and predict the responses of biological

systems. The objectives are to assess first the effects of climate change on wildlife, then the effects of changing wildlife patterns on the diet and health of humans.

Water Quality, Supply and Indicators of Change

Project Leaders: Warwick Vincent and Éric Dewailly

This project aims to develop an integrated environmental and health framework for assessing the impacts of climate change on water supply in the eastern Canadian Arctic. The objectives of this project are to develop, assess and apply indicators of climate, water quality and water supply in northern lakes and reservoirs. Health indicators of drinking water quality are to be assessed, as well as paleoclimate measurements and current climate observations along a north-south gradient.

Emerging New Infectious Diseases in Humans and Wildlife

Project Leaders: Benoît Lévesque and Éric Dewailly

Climate changes can affect the epidemiology of infectious diseases through a variety of indirect mechanisms, such as changes in the range and activity of vectors and the appearance and extent of infectious agents. This project focuses on the identification, survey and prevention of health risks associated with infectious diseases, with a specific emphasis on zoonoses (infectious diseases found in animal hosts and transmissible to humans) and other diseases transmitted via food and water.

Climate and Coastal Landscape Instability: Socio-Economic and Ecological Impacts

Project Leaders: Michel Allard and Wayne Pollard

Erosion of coastal permafrost is a rapid process with many consequences for landscape ecology and coastal communities. The objectives of this project are to: quantify the potential impact of climate change on northern landscapes, shorelines around communities and areas of traditional land use; compare anticipated climate and landscape change with the Holocene paleoclimatic record and traditional knowledge; and evaluate the impact of landscape change on the activities of northern people, communities and resource development.

Cultural Self-Determination, Endogenous Development and Environmental Changes

Project Leader: Mark Nuttall

The societal impacts of climate change are likely to be considerable but have been little documented in the Canadian Arctic. This project aims to enhance understanding of the extent of the environmental issues and challenges faced by indigenous peoples in a rapidly changing milieu. Further, the project seeks to acquire an understanding of the variables fundamental to the social, cultural, political and economic viability of Arctic communities, explores avenues of concern highlighted by communities and works to integrate traditional ecological knowledge and environmental sciences.

Warming the Tundra: Health, Biodiversity and Greenhouse Gas Implications

Project Leaders: Greg Henry and Yves Bégin

The central objective of this project is to determine the effects of environmental variability and change on terrestrial ecosystems of the eastern coastal Canadian Arctic. An improved understanding of responses in these ecosystems is necessary as they provide essential biological resources and services to northern residents and play an important role in transfers of carbon and pollutants to aquatic and atmospheric systems.





The Hudson Bay System Study: Land-Ocean Interactions in Sub-Arctic Hudson Bay

In order to fully understand the complex interrelationships amongst the physical, ecological, social and health characteristics of Hudson Bay and the coastal communities of Manitoba, Nunavut and Nunavik, we require multidisciplinary research focused around detailed experimentation and time series measurements of all aspects of the system. Unfortunately, baseline information of the type required simply does not exist.

Theme 3 will document the present links between environmental change, health and economy within Hudson Bay. Linkages with heavily impacted southern watersheds and the role water regulation plays in the processes of Hudson Bay will illuminate the complex two-way connections between the sub-Arctic and southern Canada. Key indicators of change and variability will provide the background necessary to make effective policy, management and governance decisions by all levels of government. Collaborations between physical scientists and stakeholders in the communities, and elsewhere, will ensure integrated management decisions are based on policy relevant science.

Ocean-Ice-Atmosphere Coupling and Climate Variability

Project Leader: David Barber

This project focuses on the connection between freshwater quality and quantity, and marine processes within Hudson Bay. Observational data sets collected at a range of spatial and temporal scales will be examined within a framework of model prediction and remote sensing information of climate state variables throughout the annual cycle

as a means of defining a baseline for fresh-water-marine coupling and of separating climate change from variability induced by anthropogenic sources (e.g., hydroelectric development, shipping).

The Hudson Bay Coastal Zone in a Changing Climate System

Project Leader: Tim Papakyriakou

This project assesses the impacts of climate change on watershed processes in the Hudson Bay Lowlands and their downstream effects on Hudson Bay. Two questions will be asked: how does the state of Hudson Bay affect biogeophysical and biogeochemical processes that describe the nature, occurrence and transport of water and carbon within the terrestrial and aquatic systems of the Hudson Bay Lowlands; and how do watershed processes feedback to affect the state of Hudson Bay.

Climate Variability, Change and Marine Ecosystem Resources in Hudson Bay

Project Leader: Michel Gosselin

Previous studies have demonstrated the central importance of under-ice river plumes in determining primary production, zooplankton dynamics and the feeding success and survival of fish larvae in Hudson Bay. Given that the oceanography of central Hudson Bay has yet to be studied in detail, the overarching objective of this project is to assess how climate-induced variability and change in sea temperature, sea ice cover dynamics and the timing and intensity of river freshet affect marine biological productivity, fish stocks and marine mammals.



Carbon and Contaminant Cycling in the Coastal Environment

Project Leader: Gary Stern

Given projected climate changes for Hudson Bay, it is likely that mercury will become the most important contaminant in the system through its release from frozen basin soils and changes in wetland distribution. This project will examine how the physical processes, climate associated variability and biogeochemical response to this primary forcing will affect organohalogen and trace metal contaminant cycling in the Hudson Bay ecosystem and, ultimately, their levels in fish, marine mammals and the people who consume these tissues as part of their traditional diets.

Persistent Organic Pollutants and Human Health

Project Leaders: Pierre Ayotte and Laurie Chan

The objective of this project is to study the effects of climate change on the health status of peoples in the coastal communities of

Hudson Bay. This project will focus on health effects possibly resulting from exposure to persistent organic pollutants and the next generation of pollutants (BDEs, PFAs, HPCs) in the Arctic. Results will be communicated to develop programs and services to meet changing health needs.

Engaging Local, Scientific and Government Partners in Ocean Co-management

Project Leaders: Jill Oakes and Rick Riewe

The main objective of this project is to identify linkages between traditional knowledge and “western” science on aspects of environmental change in Hudson Bay coastal communities. By determining and analyzing these linkages, ecological problems created by environmental change will be identified and possible recommendations for reducing these problems will be developed.

Adapting to Change in the Canadian Arctic: Knowledge Transfer, Policies and Strategies

In working across the Canadian Arctic and in concert with other ArcticNet themes, Theme 4 will provide information to aid in the development of policies and strategic initiatives for adapting to a changing Arctic environment. A variety of social, environmental, economic, political and health perspectives are evaluated with a view to understanding the processes by which ArcticNet research could influence public decision making at all levels.

Through the direct involvement of partners in communities, Inuit organizations and levels of government, the key issues, knowledge gaps and priorities related to adapting to climate and other changes in the coastal Canadian Arctic are being identified and examined. An open dialogue will be facilitated between Theme 4 Network Investigators and policy and decision makers with the goal of understanding avenues that encourage knowledge transfer in the relevant societal and political framework. This knowledge transfer is necessary to affect change and build capacity in the Canadian Arctic. Through research collaborations, Theme 4 Network Investigators will contribute to an understanding of strategy and policy development, thereby increasing the ability of communities, organizations and governments to adapt to the changes occurring now and in the future.

Projecting into the Future: the Canadian Arctic Environment, Tomorrow to 2100

Project Leader: David Barber

The goal of this project is to improve the credibility and utility of Arctic climate model results by employing novel means of

evaluating model performance and integrating the Arctic modeling community with process scientists, northern residents and decision makers. Focusing on four high-resolution regional scale models in Baffin Bay, the Beaufort Sea, the Canadian Archipelago and Hudson Bay, this project will specifically investigate how changes in the sea ice regime may affect people.

Reducing Human Vulnerability to Environmental Changes in the Canadian Arctic

Project Leader: Barry Smit

This project collaborates with Northerners to identify conditions to which they are vulnerable and to assess the capacity of communities to prepare for and adapt to changing environmental conditions. Future risks will be calculated by combining community knowledge (Inuit Qaujimajatuqangit) with estimates from climate science. Adaptive strategies, risk management options and policy initiatives will be developed and evaluated with northern decision makers.

Vulnerabilities and Adaptation to Meteorological and Related Hazards

Project Leader: Ronald Stewart

An analysis of meteorological and related hazards will be conducted to determine how hazards impact local communities and how these hazards will change with climate. Hazards will be ascertained from climatologies and through discussions with local communities and operational meteorologists. Special measurements of selected hazards will be made and analyzed. Risk management, optimum adaptive strategies and methods for their implementation will be identified.



Climate Change, Key Traditional Food Species and Community Health in the Arctic

Project Leaders: Laurie Chan and Christopher Furgal

Collaborating with Canadian Arctic communities, this project seeks to investigate how and to what extent climate change is affecting the traditional diet profile of northern aboriginal residents presently and potentially in the future, and what implications this may have for individuals' health. Specifically the project is focusing on: nutrition and potential changes in intake of nutrients; exposure to contaminants; and levels of food security. Modelling and qualitative approaches are used to integrate both scientific and local/traditional knowledge.

Surveillance and Management of Climate Change Impacts in the North: Implications for Northern Public Health Policy and Infrastructure

Project Leader: Pierre Gosselin

Working with each northern region, this project will plan, design and make operational improved Community Health and Environmental Surveillance programs over the next decade. Case studies describing the current state of northern public health and environmental surveillance and management with respect to climate and other global impacts will be developed. These will inform the necessary resources and mobilize them towards the development of adapted systems and programs through education and training, partnerships and information sharing, and other mechanisms.

Conservation, Economic Development and Community Values: Legal, Policy and Ethical Perspectives

Project Leader: Milton Freeman

The objective of this project is to examine the legal, policy, administrative and ethical framework within which conservation hunting is practiced in Nunavut and the Inuvialuit Settlement Region. This research will: document and analyze variations in the practice of conservation hunting; critically assess the conservation and social benefits and costs associated with this type of resource use; examine the legal and policy framework within which these conservation hunting programs operate; and examine the future of conservation hunting in light of predicted environmental changes.

Science-Policy Interactions

Project Leader: Gordon McBean

This project will contribute to the transfer of information to policy and decision makers by conducting research on the processes of science-policy interactions. Key research questions to be addressed include: what constitutes good and effective science-policy exchange; what are measures of success; and what techniques can be used to make the process more effective. The research team will work with organizations and governments to ascertain priorities and identify tools to facilitate an open dialogue between scientists and policy and decision makers.

Strengthening Climate Cooperation, Compliance and Coherence

Project Leader: Richard Janda

Through partnerships with national and international legal researchers, organizations and communities, this project will conduct a legal and policy analysis of the impacts of climate change in the Canadian Arctic by studying the implications of climate change on governance, environmental protection and human rights, and international sovereignty and diplomacy.



Education and Training



ArcticNet's multidisciplinary research, wide geographic scope and access to central infrastructure and key partners provide a unique scientific environment for the training of 210 graduate and post-graduate students, and over 100 research associates and technicians participating in Network research. Key programs continue to contribute to the training of the next generation of young scientists needed to study, model, manage and ensure the stewardship of the changing Canadian Arctic.

As evidence of a promising future for Arctic science, more than 120 students participated in the first ArcticNet Student Association's (ASA) Student Day held during the Annual Scientific Meeting (ASM2005) in December 2005. With the goal of engaging students in open discussions on the theme 'Leading the Way in Northern Research through Communication and Collaboration', Student Day was held in conjunction with the first ASA General Assembly, where the Executive Council was elected and the Charter was ratified. With a mission to broaden the ArcticNet student experience by promoting

student learning and leadership while enhancing research and networking opportunities, the ASA has set a responsive and ambitious plan for the coming years.

The ArcticNet Training Fund was initiated to support student participation in high-quality, Arctic-related training and development experiences. In the past year, several of the successful applicants participated in the Nansen and Amundsen Basin Observing System summer school onboard the Russian icebreaker Kapitan Dranitsyn, where they shared in daily lectures and partnered with senior scientists conducting research in the Laptev Sea.


As part of ArcticNet's successful Schools on Board 2005 program, six students and two teachers from schools across Canada joined an energized learning environment participating in laboratory and field work onboard the CCGS Amundsen. In February 2006 the program hosted the Arctic Climate Change Youth Forum to bridge Arctic climate change research and science education in schools. With over 200 students and teachers participating, scientists and politicians presented on the science of Arctic climate change research and the social and policy implications of these changes. The accomplishments of the Schools on Board program have been acknowledged with an NSERC PromoScience Award that will allow further development of classroom resources to facilitate the inclusion of Arctic sciences in high school curricula.

"The number of graduate students completing their thesis as part of ArcticNet has increased by 75% since last year, from 120 to 210."

“Being in the Laptev Sea onboard the Kapitan Dranitsyn with an international and interdisciplinary group of students and experienced researchers was for me a unique learning and networking experience which is clearly in phase with the objectives of ArcticNet. I connected in a unique way with people with whom I will likely be collaborating in the future and gained a lot of field experience and perspective, which I consider extremely valuable for my Ph.D. on ocean modeling.”

– Dany Dumont, Ph.D. candidate, INRS-ETE, ArcticNet Training Fund Recipient





“ No nation, acting alone, can protect the Arctic. But the circumpolar nations, acting together, can and must. University researchers across the circumpolar nations should be encouraged in collaborative initiatives such as ArcticNet, which brings together 100 researchers from 27 Canadian universities, five federal departments with Inuit participants in what Time magazine recently called the biggest Arctic research project ever undertaken. ”

– The Right Honourable Brian Mulroney, former Prime Minister of Canada

Partnerships, Networking and Outreach

Partnerships

A major goal of ArcticNet is to engage Inuit organizations, northern communities, universities, research institutes, government and international agencies as partners in the scientific process and steering of the network. With multisectoral network research spanning the entire Canadian Arctic, partnerships are essential to the success of ArcticNet and to ensure the relevance of its research program. In the past year, over 100 partner organizations contributed more than \$11 million in cash and in-kind contributions to ArcticNet, providing essential logistical support, collaborative research and access to infrastructure and expertise.

Our vital partnerships continue to grow with Government of Canada departments and agencies, such as the Canadian Coast Guard, Fisheries and Oceans, Environment and Natural Resources, as well as with industrial partners such as OmniTRAX, Devon Canada Corporation and Manitoba Hydro. Connecting excellent research with industrial know-how and strategic investment, ArcticNet's joint research effort with Manitoba Hydro in the Churchill and Nelson River estuaries is helping us better understand the linkages between heavily impacted southern watersheds and the role water regulation plays in the processes of Hudson Bay. This partnership has resulted in "first-ever" measurements increasing the baseline information against which to make informed policy management decisions.

Working in the north requires the valuable input of Northerners, particularly elders, hunters and trappers, who share their extensive and often undocumented knowledge of environmental change with



researchers to address important issues identified by those most impacted by a changing Arctic. Many ArcticNet projects rely on local residents to lead in the collection of samples for laboratory analysis, assist with interviews and translation, and communicate research and results. The continued support of northern partners, such as the Inuvialuit Regional Corporation, Nunavut Tunngavik Incorporated, Makivik Corporation, Nunatsiavut Government and northern research institutes is integral to achieving ArcticNet's vision.

In collaboration with the Nasivik Centre for Inuit Health and Changing Environments, the Northern Contaminants Program and the four Inuit land claim organizations, ArcticNet is supporting an Inuit Research Advisor position in each of the four Inuit regions of Canada – Nunatsiavut (Labrador), Nunavik (northern Québec), Inuvialuit (Northwest Territories) and Nunavut – to help coordinate research and to improve connections between scientists and communities.

Networking and Outreach

ArcticNet's Annual Scientific Meeting (ASM) has rapidly become Canada's largest and most comprehensive Arctic science gathering and networking event. ArcticNet's ASM2005 was held from 13 to 16 December 2005 in Banff, Alberta.

With over 275 participants, the gathering provided an occasion for researchers, post-doctoral fellows, graduate students, research staff, network partners, and Board and Committee Members to meet face-to-face, present research results and hold project and theme workshops. Over 40 oral presentations and 150 scientific posters from all fields of Arctic research were presented during the meeting, reflecting the high level of multidisciplinary of ArcticNet research.

Building on its solid research and networking base, ArcticNet is an excellent conduit to communicate our growing understanding of the impacts of Arctic climate change to the scientific community, stakeholders, decision makers and the public. In addition to producing over 350 scientific publications in the past year, ArcticNet researchers, students and managers were also extremely active in communicating their research and building awareness of the impacts of Arctic climate change through conferences, workshops and dozens of contributions to major national and international news outlets. This year saw several outstanding examples:

- A two-day symposium titled 'From Research to Action' was held in Ottawa in early November 2005. Co-sponsored by ArcticNet Project 4.7 Science-Policy Interactions and the Canadian Foundation for Climate and Atmospheric Sciences, among others, the symposium allowed representatives from government, academia and the private sector to discuss the science-policy interface in the context of climate change, with a focus on Canada's Arctic.
- Co-funded by ArcticNet, Nunavut Tunngavik Incorporated and the Government of Nunavut, a terminology workshop was held in Iqaluit, NU to compile an Inuktitut/Inuinnaqtun/

English glossary of 130 climate change terms to minimize the misunderstandings in translation that can significantly affect Inuit perceptions of, and involvement in, climate change research. This glossary was presented at the 2005 United Nations Climate Change Conference and Second Annual ArcticNet Scientific Meeting.

- As evidence of ArcticNet's trans-sectoral approach, ArcticNet researchers David Barber (sea ice dynamics), Louis Fortier (marine biology) and Michael Byers (international law) published a joint paper on the impacts of climate change on the sea ice of the Canadian Arctic in the December 2005-January 2006 issue of Policy Options, Canada's premier public policy magazine. The paper emphasized the importance of Canada's sovereignty and the right to manage access to, and use of, the Northwest Passage and Arctic resources.
- In April 2006, Executive Director Martin Fortier and Scientific Director Louis Fortier attended a gala dinner to honour the Right Honourable Brian Mulroney as Canada's Greenest Prime Minister. In his inspired acceptance speech on climate change and the Canadian Arctic, Brian Mulroney used ArcticNet as an example of an initiative to be emulated in the national and international collaborative effort necessary to protect the Arctic.
- As part of Time magazine's April 2006 special report on global warming, a dedicated article showcased ArcticNet as a research program that "may provide some early answers about the connections among warming, melting, ecosystem reorganization and human response" in a region of Canada where climate change will be felt first and most severely.

“ In addition to producing over 350 scientific publications in the past year, ArcticNet researchers, students and managers were also extremely active in communicating their research and building awareness of the impacts of Arctic climate change through conferences, workshops and dozens of contributions to major national and international news outlets. ”



Network Structure

The ArcticNet Network of Centres of Excellence was incorporated as a not-for-profit corporation under the name "ArcticNet Inc." in December 2003.

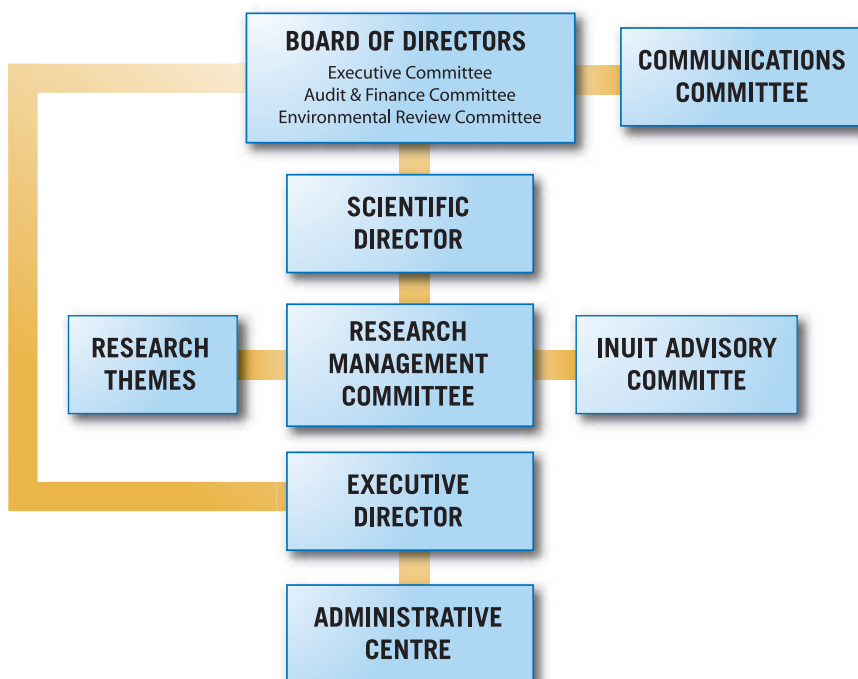
The Board of Directors (BOD) is responsible for the overall governance of the network and acts in accordance with the By-Laws of ArcticNet Inc. Subcommittees of the Board of Directors include the Executive Committee, the Audit and Finance Committee and the Environmental Review Committee. With representatives from Inuit organizations, university, government and industry, the Board of Directors have set goals and directives that are responsive to the needs of stakeholders and ArcticNet's Strategic Plan.

The Scientific Director is appointed by the Board of Directors to provide scientific leadership and strategic direction to the network. He is an ex-officio, voting member of the Board of

Directors, Communications Committee and the Research Management Committee (RMC). He/she also chairs the RMC.

The Research Management Committee (RMC) manages the research program and assures ongoing assessment of all research projects in order to provide recommendations to the Board of Directors regarding research priorities and budget allocations. The RMC reports to the BOD through the Scientific Director. In addition to the Scientific Director who chairs the committee, the RMC is composed of the four Research Theme Leaders, the Executive Director (non-voting) as well as members from Inuit organizations, government and industry.

The Inuit Advisory Committee (IAC) provides guidance and recommendations related to needs and priorities of Inuit with regard to





strategic planning, research needs, input of traditional knowledge, community involvement, participation, training and education. The Committee reports to the Research Management Committee (RMC) and is composed of the Inuit ArcticNet Coordinator, the four Regional Inuit Research Advisors, Inuit organization members of the RMC and ArcticNet's Executive Director (non-voting).

ArcticNet's multidisciplinary research program comprises 27 research projects, structured into four Research Themes. Each Theme is directed by a Theme leader and coordinated by a Theme coordinator. The four Theme leaders sit on the Research Management Committee.

As Chief Operating Officer, the Executive Director provides the leadership and direction for all network operations and ensures control and accountability on a day-to-day basis. He is an ex-officio, non-voting member of the Board of Directors and all its sub-committees, the Research Management Committee, Communications Committee and Inuit Advisory Committee.

Acting under the direction of the Executive Director, ArcticNet's Administrative Centre is located on the Université Laval campus in Québec City, Québec, Canada. It comprises the administrative offices of the network and includes its staff and equipment. The Administrative Centre is responsible for the daily operations of ArcticNet.

ArcticNet Community

Board of Directors

Bernie Boucher,
*Chair of the Board,
President, JF Boucher
Consulting Ltd*

Jose Kusugak,
*Co-Chair of the Board,
President, Inuit Tapiriit
Kanatami*

Robert Corell,
*Senior Fellow, American
Meteorological Society*

James Eetoolook,
*1st Vice-President,
Nunavut Tunngavik
Incorporated*

Marc-Denis Everell,
*Assistant Deputy Minister,
Environment Canada -
Meteorological Service
of Canada*

Louis Fortier,
*Scientific Director and
CEO, ArcticNet, Ex-officio*

Martin Fortier,
*Executive Director and
COO, ArcticNet, Ex-officio,
non-voting*

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Earth Sciences, Natural
Resources Canada*

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Raymond Leblanc,
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Henry Marshall Tory Chair,
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Duane Smith,
*President, Inuit
Circumpolar Conference –
Canada*

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*President and Chairman,
The Axys Group*

Wendy Watson-Wright,
*Assistant Deputy Minister-
Science, Fisheries and
Oceans Canada*

Ed Wojczynski,
*Division Manager of Power
Planning & Development,
Manitoba Hydro*

Executive Committee

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President, JF Boucher
Consulting Ltd*

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*Co-Chair of the Board,
President, Inuit Tapiriit
Kanatami*

Robert Corell,
*Senior Fellow, American
Meteorological Society*

Louis Fortier,
*Scientific Director and
CEO, ArcticNet, Ex-officio*

Martin Fortier,
*Executive Director and
COO, ArcticNet, Ex-officio,
non-voting*

Irwin Itzkovitch,
*Assistant Deputy Minister-
Earth Sciences, Natural
Resources Canada*

Joanne C. Keselman,
*Vice-President Research,
University of Manitoba*

Audit and Finance Committee

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*Scientific Director and
CEO, ArcticNet, Ex-officio,
non-voting*

Martin Fortier,
*Executive Director and
COO, ArcticNet, Ex-officio,
non-voting*

Irwin Itzkovitch,
*Assistant Deputy Minister-
Earth Sciences, Natural
Resources Canada*

David Thomas,
*President and Chairman,
The Axys Group*

Ed Wojczynski,
*Division Manager of Power
Planning & Development,
Manitoba Hydro*

Environmental Review Committee

Robert Corell,
*Senior Fellow, American
Meteorological Society*

Martin Fortier,
*Executive Director and
COO, ArcticNet, Ex-officio,
non-voting*

Jose Kusugak,
*Co-Chair of the Board,
President, Inuit Tapiriit
Kanatami*

Duane Smith,
*President, Inuit
Circumpolar Conference -
Canada*

David Thomas,
*President and Chairman,
The Axys Group*

Research Management Committee

Louis Fortier,
Chair, Scientific Director and CEO, ArcticNet, Ex-officio

Douglas Bancroft,
Director, Oceanography and Climate Branch, Fisheries and Oceans Canada

David G. Barber,
Professor, University of Manitoba

Larry Carpenter,
Chair, Wildlife Management Advisory Council, Joint Secretariat

Éric Dewailly,
Professor, Centre de recherche du Centre hospitalier de l'Université Laval

Martin Fortier,
Executive Director and COO, ArcticNet, Ex-officio, non-voting

Philippe Lavallée,
Environment Policy Manager, Nunavut Tunngavik Incorporated

Donald Lemmen,
Acting Executive Director, Natural Resources Canada - Earth Sciences Sector

Lisa Loseto,
President, ArcticNet Student Association, Ex-officio, non-voting

Gordon McBean,
Professor, The University of Western Ontario

Stephanie Meakin,
Technical Advisor, Inuit Circumpolar Conference - Canada

Scot Nickels,
Director, Inuit Tapiriit Kanatami

Russel Shearer,
Director, Northern Science and Contaminants Research Directorate, Indian and Northern Affairs Canada

Warwick Vincent,
Professor, Université Laval

Douglas Whelpdale,
Director, Environment Canada - Climate Research

Inuit Advisory Committee

Duane Smith,
Chair, President, Inuit Circumpolar Conference - Canada

Tracy Evans and Eldred Allen, *ICC/ITK ArcticNet Coordinator*

Barbara Armstrong,
Inuit Research Advisor Inuvialuit

Elizabeth Ford,
Inuit Research Advisor Nunatsiavut

Martin Fortier,
Executive Director and COO, ArcticNet, Ex-officio, non-voting

Jenny Ipirq,
Inuit Research Advisor Nunavut

Stephanie Meakin,
Technical Advisor, Inuit Circumpolar Conference - Canada

Scot Nickels,
Director, Inuit Tapiriit Kanatami

Shannon O'Hara,
Inuit Research Advisor Inuvialuit

Sammy Tukkiapik,
Inuit Research Advisor Nunavik

Officers and Administrative Staff

Louis Fortier,
Scientific Director and CEO, ArcticNet

Martin Fortier,
Executive Director and COO, ArcticNet

Suzette Forget,
Finance Officer, Treasurer, ArcticNet

Jaime Dawson,
Communications Officer, ArcticNet

Natalie Desmarais,
Executive Assistant, ArcticNet

Sylvain Tougas,
Website Developer, ArcticNet

Keith Levesque,
Ship-Based Research Coordinator, ArcticNet

Research Theme

Coordinators

Claudine Forest, *Theme 1*
Christine Barnard, *Theme 2*
CJ Mundy and Alexandre
Langlois, *Theme 3*
Jaime Dawson and Leslie
Coates, *Theme 4*

Inuit Research Advisors

Barbara Armstrong and
Shannon O'Hara, *Inuvialuit*
Elizabeth Ford, *Nunatsiavut*
Jenny Ipirq, *Nunavut*
Sammy Tukkiapik, *Nunavik*

Member Institutions and Network Investigators

Carleton University

- Grant Gilchrist
- John Stone

Dalhousie University

- David Scott

Institut national de la
recherche scientifique –
Eau, Terre et Environnement

- Yves Gratton
- Isabelle Laurion

Institut national de la
recherche scientifique –
Urbanisation, Culture
et Société

- Carole Lévesque

McGill University

- Laurie Chan
- Grace Egeland
- Murray Humphries
- Richard Janda
- Michael Libman
- Wayne Pollard
- Neil Price
- Ronald Stewart
- Brian Ward
- George Wenzel

Memorial University of
Newfoundland

- Trevor Bell
- Norm Catto
- Evan Edinger
- Donald Forbes
- Rod Smith

Queen's University

- Scott Lamoureux

Royal Military College
of Canada

- Richard Marsden

Ryerson University

- Frank Duerden

Trent University

- Peter Lafleur

Université de Montréal

- Suzanne Lalonde
- Bouchra Serhir
- Helene Trudeau

Université du Québec
à Montréal

- Laurier Poissant

Université du Québec
à Rimouski

- Dominique Berteaux
- Joël Bêty
- Peter Galbraith
- Michel Gosselin
- Mike Hammill
- Pierre Larouche
- Michel Poulin
- André Rochon
- François Saucier
- Yvan Simard

Université du Québec
à Trois-Rivières

- Esther Lévesque

Université Laval

- Michel Allard
- Pierre Ayotte
- Yves Bégin
- Éric Dewailly
- Louis Fortier
- Christopher Furgal
- Jacques Gagné
- Gilles Gauthier
- Pierre Gosselin
- Bruno Hubert
- Patrick Lajeunesse
- Benoit Lévesque
- Reinhard Pienitz
- Jean-Éric Tremblay
- Warwick Vincent

University of Alberta

- Christopher Fletcher
- Milton Freeman

- Mark Nuttall
- Martin Sharp
- Vincent St-Louis

University of British
Columbia

- Michael Byers
- Greg Henry
- Grant Ingram

University of Calgary

- Nigel Bankes
- John Yackel

University of Guelph

- Doug Campbell
- Derek Muir
- Barry Smit

University of Manitoba

- David Barber
- Helen Fast
- Steven Ferguson
- John Hanesiak
- Leslie King
- David Lobb
- Christine Michel
- Jill Oakes
- Peter Outridge
- Tim Papakyriakou
- Simon Prinsenber
- Rick Riewe
- Ken Snelgrove
- Gary Stern
- Charles Tang
- Mario Tenuta
- Feiyue Wang

University of New
Brunswick

- Steve Blasco
- John Hughes Clarke

University of Ottawa

- Don Wigle

University of Toronto

- Kue Young

University of Victoria

- Gregory Flato
- Robie Macdonald
- Ted McDorman
- Andrew Newcombe

University of Waterloo

- Michael Power

University of Western Ontario	Hydro-Québec	Fisheries and Oceans Canada - Freshwater Institute
• Gordon McBean	International Submarine Engineering Ltd	
York University	Manitoba Hydro	Fisheries and Oceans Canada - Institute of Ocean Sciences
• Richard Bello	Multi-Electronique MTE Inc.	
• Kathy Young	Mountain Equipment Co-op	Fisheries and Oceans Canada - Maurice-Lamontagne Institute
ArcticNet Partners	OmniTRAX	
<i>University</i>	SNC-Lavalin	Fisheries and Oceans Canada - Science Sector
Contemporary Arts Film School, Simon Fraser University	<i>Federal Departments and Agencies</i>	
	Canadian Climate Change Impact and Adaptation Research Network - North	Indian and Northern Affairs Canada - Environment and Renewable Resources Directorate
Courant Institute of Mathematical Science, New York University	Canadian Hydrographic Service (Atlantic)	Indian and Northern Affairs Canada - Northern Contaminants Program
McGill University	Canadian Hydrographic Service (Central & Arctic Region)	Indian and Northern Affairs Canada - Northern Scientific Training Program
Memorial University of Newfoundland	Canadian Museum of Nature	Meteorological Service of Canada - Climate Research Branch
Norwegian College of Fishery Science, University of Tromsø	Canadian Polar Commission	Meteorological Service of Canada, Prairie Monitoring Group
State University of New York	Inuit Circumpolar Conference	NASA - National Aeronautics and Space Administration
Université du Québec à Rimouski	Inuit Tapiriit Kanatami	Natural Resources Canada - Climate Change Impacts and Adaptation Program
Université Laval	Environment Canada - Canadian Ice Service	Natural Resources Canada - Earth Sciences Sector
University of Alberta	Environment Canada - Canadian Wildlife Service - Northern Conservation Division	Natural Resources Canada - Office of Energy Research and Development
University of Hokkaido Tokai, Sapporo	Environment Canada - Canadian Wildlife Service - Quebec Region	
University of Manitoba	Environment Canada - Meteorological Service of Canada	
University of Miami	Environment Canada - National Hydrometeorology and Arctic Laboratory	
University of New Brunswick	Environment Canada - Northern Ecosystem Initiative	
University of Plymouth	Fisheries and Oceans - Science Branch Newfoundland	
University of Victoria, Faculty of Law		
University of Washington		
University of Western Ontario		
York University		
<i>Industry</i>		
British Broadcasting Corporation		
Devon Canada Corporation		
DuPont		
EPCOR		

Pauktuutit Women's
Association
Public Health Agency of
Canada

Provincial Departments and Agencies

Alberta Ingenuity Fund
Avataq Cultural Institute
Fonds québécois de
recherche sur la nature
et les technologies
Institut national de santé
publique du Québec
Kativik Regional
Government
Makivik Corporation
Ministère de la Santé et
des Services sociaux -
Québec
Nunavik Regional Board of
Health and Social Services
Nunavik Research Centre
Unité de recherche en
santé publique

Territorial Departments and Agencies

Aurora Research Institute
Fisheries Joint
Management Committee
Frontier School Division
Government of Nunavut
Department of Health
and Social Services
Government of Nunavut
Wildlife Management
Division
Inuvialuit Regional
Corporation
Inuvialuit Joint
Commission
Kitikmeot Heritage Society
Mitiq Co-operative
Nunatsiavut Government
Nunavummi
Tasiujarjuamiuguqatigitt
Katujiqatigatjgiingit

Nunavut Arctic College
Nunavut Research
Institute
Nunavut Wildlife
Management Board
Nunavut Wildlife
Research Trust
Nunavut Tunngavik
Incorporated

Northern Communities

Aklavik, NT
Akulivik, QC
Arctic Bay, NU
Arviat, NU
Aupaluk, QC
Baker Lake, NU
Churchill, MB
Clyde River, NU
Coral Harbour, NU
Gjoa Haven, NU
Igloolik, NU
Ikaahuk, NT
Inujjuaq, QC
Inuvik, NT
Iqaluit, NU
Ivujivik, QC
Kangiqsualujjuaq, QC
Kangiqsuk, QC
Kangirsujuaq, QC
Kinngait, NU
Kugaaruk, NU
Kuujuaq, QC
Kuujjuaraapik, QC
Nain, NL
Pangnirtung, NU
Paulatuk, NT
Pond Inlet, NU
Puvirnituk, QC
Qikiqtarjuaq, NU
Quataq, QC
Repulse Bay, NU
Resolute Bay, NU
Salluit, QC
Sanikiluaq, NU
Tasiujaq, QC
Tuktoyaktuk, NT
Uluhaktuk, NT
Umiujaq, QC
Wemindji, QC

Others

A.D. Latornell Endowment
Fund
Alfred Wegener Institute
Foundation for Polar
and Marine Research
All Nations' Services
Arctic Institute of North
America
Arctic Marine Ecosystem
Research Network
(ARCTOS)
Canadian Circumpolar
Institute
Canadian Foundation for
Climate and Atmospheric
Sciences
Centre d'études et de
recherches internationales
Centre d'études nordiques
Centre for Indigenous
Peoples' Nutrition and
Environment
Centre for International
Sustainable
Development Law
Churchill Northern
Studies Centre
Institute for Catastrophic
Loss Reduction
IUCN-North America
Sustainable Use
Specialist Group
Nasivvik Centre for Inuit
Health and Changing
Environments
Polar Continental Shelf
Project



FINANCIAL OVERVIEW

The following figures and financial overview were prepared in accordance with generally accepted Canadian accounting practices. ArcticNet Inc. was audited in May 2006 in accordance with generally accepted Canadian auditing standards.

Revenues, Expenses and Changes in Net Assets

For the 12 month period ending March 31, 2006

	2006 \$
<hr/>	
Revenues	
Net assets, beginning of year	1,245,239
Networks of Centres of Excellence Grant	6,441,000
Network partner contributions to shiptime ¹	256,283
Other ¹	79,186
	<hr/>
	8,021,708
 Expenses	
Research Projects	3,591,797
Core infrastructure Shiptime	1,974,202
Networking and Communications	565,103
Salaries of Administrative Staff	321,347
Travel and Meetings	160,349
Administrative Centre	52,933
	<hr/>
	6,665,731
 Net Assets, End of Year	<hr/> 1,355,977 <hr/>

¹ Funds received and managed directly by the ArcticNet Administrative Centre.

Statement of Cash and In-Kind Contributions
For the 12 month period ending March 31, 2006

	Cash \$	In-kind \$
NCE	6,441,000	
Non-NCE ¹		
Provincial	73,233	386,227
Federal	1,822,158	2,216,542
University	639,736	409,000
Industry	458,914	4,978,711
Other	223,159	605,575
Total non-NCE	3,217,200	8,596,055
Total NCE and non-NCE	9,658,200	8,596,055

¹ Certain funds contributed by Network Partners to support research projects are forwarded directly to researchers and are not managed by the ArcticNet Administrative Centre.







ᐸᐁᑦᑦ ᐃᐃ ᓂᑎᐃ,
ᖃᕂᐅᐱᖃᖃᕆᐭᕐᑦ
ᐅᓯᑭᐱᖃᖃ, ᐱᖃᐱᕐᑦᑦᑦ
ᐱᖃᐭᐱᖃᖃ

ᑲᓂᐭᐱᕐᑦ,
ᕆᑎᐭᐱᕐᑦ

ᐸᐁᑦᑦ ᐭᑦᑦ ᓂᑎᐃ,
ᐱᐅᑦᑦᑦᑦᑦᑦᑦᑦ
ᐅᓯᑭᐱᖃᖃ, ᐅᐱᖃᑦᕐᕐ-
ᐱᖃᐱᕐᑦᑦᑦᑦᑦ
ᐱᖃᐭᐱᖃᖃ

M. Louis Fortier,
Ph.D., *directeur
scientifique,
président et
directeur général*

M. Bernie Boucher,
*président
du conseil
d'administration*

M. Martin Fortier,
Ph.D., *directeur
exécutif,
vice-président
et directeur
des opérations*



**ᐅᖃᕂᐅᐱᖃᖃᑦ ᐅᖃᑦᑦᑦᑦᑦ
ᕆᑎᐭᐱᕐᑦ, ᖃᕂᐅᐱᕆᐭᕐᑦ
ᐅᓯᑭᐱᖃᖃᑦ ᐱᖃᐭᐱᕐᑦ ᐱᐅᑦᑦᑦᑦᑦ
ᐅᓯᑭᐱᖃᖃᕐᑦᑦᑦᑦᑦ**

**Message du président
du conseil d'administration,
du directeur scientifique et
du directeur exécutif**

ᓄᓇᐅᑦ ᐱᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦ ᑦᑦ ᐱᖃᐱᖃᖃᑦᑦᑦᑦᑦ
ᐅᖃᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᖃᑦᑦᑦᑦ, ᑦᑦᑦᑦ 2005 ᐅᖃᑦᑦᑦᑦᑦᑦ
ᐱᖃᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑎᑎᖃᑦᑦᑦᑦᑦᑦ ᐅᓯᑭᐱᖃᖃᑦᑦᑦ
ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ. ᓇᑦᕆᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦ ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ
ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᖃᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦ 1978,
ᑎᓯᐅᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦ ᖃᓯᑎᐱᑦᑦᑦᑦᑦᑦ ᐅᓯᑭᐱᖃᖃᖃᑦᑦᑦ
ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᐅᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦ
ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦᑦ
ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦ
ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ
ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ

La basse atmosphère terrestre fut de nouveau
anormalement chaude en 2005, où l'on enre-
gistra l'année la plus chaude de l'hémisphère
Nord. Conformément à la tendance observée
par les satellites depuis 1978, la banquise de
l'Arctique central a également atteint son
étendue record minimum en septembre 2005.
Combiné à la régression générale des glaciers
et à l'accélération de la fonte du glacier conti-
nental du Groenland, le rétrécissement spec-
taculaire de la couverture des glaces de mer
de l'Arctique suggère fortement que le change-
ment du climat de l'hémisphère Nord anticipé
par des simulations numériques pourrait se
produire encore plus rapidement que prévu.

ᐱᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑎᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ, ᐅᓯᑭᐱᖃᖃᖃᑦᑦᑦᑦᑦᑦ
ᐅᓯᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑎᑦᑦᑦᑦ ᐱᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐱᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ
ᐱᖃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ
ᑦᑦ

Fidèle à son mandat, ArcticNet a été particu-
lièrement actif dans la sensibilisation aux
répercussions qu'auront la modernisation et
le réchauffement de l'Arctique sur les écosys-



« L'Amundsen a fait du Canada un chef de file mondial dans le domaine de la recherche arctique. La recherche multidisciplinaire rendue possible par l'Amundsen permet au Canada d'élaborer des stratégies et des politiques efficaces concernant des problèmes critiques comme les changements climatiques, l'écologie de l'Arctique et la santé de nos collectivités nordiques. »

*– Eliot Phillipson, Ph.D., président et directeur général
de la Fondation canadienne pour l'innovation (FCI)*





**ᐃᑲᑦ ᑭᓄᓚᐅᓂᑦ, ᐃᑦᑭᑦᑲᑦᐃᑦ ᐊᑲᑲᑦ
ᓇᓇᑭᓂᑦᑭᑦᑭᑦ ᐊᑦᑲᑦᑭᑦᑭᑦ**

ᐱᑦᑭᑦᑲᑦᐃᑦ ᐊᑲᑲᑦᑭᑦᑭᑦᑭᑦ ᑲᑦᑲᑦ ᐃᑦᑲᑦ
ᐅᓇ ᐅᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦ ᐱᑦᑭᑦᑲᑦᐃᑦ ᓄᐃᑦᑲᑦᑲᑦ
ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦ ᐃᑲᑲᑦᑲᑦᑲᑦ
ᐊᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᐃᑲᑲᑦ
ᑲᑦᑲᑦᑲᑦᑲᑦ ᐃᑲᑲᑦᑲᑦᑲᑦ ᐃᑲᑲᑦᑲᑦᑲᑦ,
ᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᐃᑲᑲᑦᑲᑦᑲᑦ,
ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦ
ᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ
ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ.

**ᓄᐃᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᓄᑲᑲᑦ
ᐃᑲᑲᑦᑲᑦ ᐊᑲᑲᑦ ᓂᑦᑲᑦᑲᑦᑲᑦ**

ᐱᑦᑭᑦᑲᑦᐃᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᐱᓄᐃᑦ ᑲᑦᑲᑦ
ᐅᓇ ᐱᑦᑭᑦᑲᑦᐃᑦ ᐱᑦᑭᑦᑲᑦᑲᑦ ᓇᓇᐃᑲᑦᑲᑦᑲᑦ, ᐊᑲᑲᑦᑲᑦ
ᑭᓄᑲᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ
ᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦ ᑭᓄᑲᑲᑦᑲᑦᑲᑦ
ᑲᓄᑲᑲᑦ ᐃᑲᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ
ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᐃᑲᑲᑦ
ᐊᑲᑲᑦ ᐊᑲᑲᑦᑲᑦ ᐊᑲᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᓄᑲᑲᑦ
ᓂᑦᑲᑦᑲᑦᑲᑦ ᐊᑲᑲ ᐃᑲᑲᑦᑲᑦ.

espèces et la dynamique des réseaux alimentaires des communautés fauniques; 2) évaluer les effets de l'évolution de la répartition de la faune sur l'alimentation et la santé des humains.

La qualité de l'eau, les réserves d'eau et les indicateurs de changement

Directeurs de projet : Warwick Vincent et Éric Dewailly

Ce projet a pour principal objectif d'élaborer un cadre intégré d'environnement et de santé pour les approvisionnements en eau : eau potable, habitats dulcicoles pour la faune et la flore aquatiques, besoins industriels et production hydroélectrique.

L'émergence de nouvelles maladies infectieuses chez les hommes et la faune

Directeurs de projet : Benoit Lévesque et Éric Dewailly

Ce projet se concentre sur la détermination, l'étude et la prévention des risques pour la santé liés aux maladies infectieuses dans le nord du Canada; il porte une attention particulière à l'apparition et à l'ampleur de la zoonose (maladie infectieuse trouvée sur des animaux hôtes et transmissible aux humains) et autres maladies transmises par la nourriture et l'eau.

L'instabilité du climat et du paysage côtier : les impacts socioéconomiques et écologiques

Directeurs de projet : Michel Allard et Wayne Pollard

Les objectifs de ce projet sont de: 1) quantifier la dégradation du pergélisol, l'érosion, la sédimentation et le retrait de la côte autour des communautés et dans les régions d'utilisation traditionnelle des terres; 2) comparer le







ለምሳሌ ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት

ገረድ ጭምር ልማት፣ ማረጋገጫ ስራ ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት
ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት

ጭምር ልማት ስራ ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት
ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት

ህግጋት፣ ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት
ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት ለሰሜን ምሥራቅ ስኬት

affectent l'alimentation traditionnelle des autochtones nordiques et à suivre ses éventuels effets sur la santé des individus. Le projet se concentrera sur : 1) la nutrition et les changements potentiels de l'ingestion des aliments; 2) l'exposition aux contaminants; 3) les niveaux de sécurité alimentaire.

La gestion des impacts dus aux changements climatiques dans le Nord : implications pour les politiques en matière de santé publique et d'infrastructures nordiques

Directeur de projet : Pierre Gosselin

Ce projet vise à améliorer les programmes de santé communautaire et de surveillance de l'environnement pour chaque région du Nord par leur planification, leur conception et leur mise en oeuvre au cours de la prochaine décennie. La phase initiale établira des études de cas décrivant l'état actuel de la santé publique nordique, de la surveillance et de la gestion environnementale en rapport avec le climat et d'autres impacts mondiaux. Ces études fourniront les renseignements et mobiliseront les ressources nécessaires à l'élaboration de systèmes et de programmes adaptés, par l'entremise de l'éducation et de la formation, de partenariats et du partage d'information, de projets pilotes, de la mobilisation de fonds et d'autres mécanismes.

Conservation, développement économique et valeurs communautaires : les points de vue juridiques, politiques et éthiques

Directeur de projet : Milton Freeman

Ce projet se propose d'examiner le cadre juridique, politique, administratif et éthique au sein duquel se pratique la chasse de conservation au Nunavut et dans l'Inuvialuit. Cette recherche documentera et analysera les variations dans la pratique de la chasse de conservation; évaluera de façon éclairée les avantages de la conservation, les avantages so-

ርዕሱ ከሌሎች ለሥራው ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው። ይህም የግብርና ስራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው።

የግብርና ስራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው።

ለሥራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው። ይህም የግብርና ስራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው።

የሥራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው።

ለሥራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው። ይህም የግብርና ስራዎች ለሚከተሉት ጉዳዮች ማረጋገጫ ላይ ያተኮረ ነው።

ciaux et les coûts associés à ce type d'utilisation des ressources; examinera le cadre juridique et politique au sein duquel ces programmes de chasse de conservation fonctionnent; et examinera l'avenir de la chasse de conservation à la lumière des changements environnementaux prévus.

La science pour les décideurs et la population

Directeur de projet : Gordon McBean

Ce projet a pour objectif de contribuer à transmettre l'information aux décideurs en effectuant des recherches sur les processus des interactions entre les scientifiques et les responsables des politiques. Parmi les grandes questions qui seront examinées, citons les suivantes : Qu'est-ce qu'un échange efficace entre les scientifiques et les responsables des politiques? Quelles sont les mesures du succès? Quelles techniques utiliser pour améliorer le processus? L'équipe de recherche travaillera en collaboration avec des organismes et des gouvernements pour établir les priorités et déterminer les outils nécessaires pour favoriser l'ouverture du dialogue entre les scientifiques et les décideurs. Ce projet constituera le complément des recherches effectuées sur le plan individuel et collectif en se concentrant sur les plans intergouvernemental et organisationnel.

Consolider la coopération, l'observation et la cohérence en matière de climat

Directeur de projet : Richard Janda

Par le biais de partenariats avec des chercheurs juridiques, des communautés et des organismes nationaux et internationaux, ce projet procédera à une analyse juridique et politique des impacts des changements climatiques dans l'Arctique canadien en étudiant les conséquences des changements climatiques sur la gouvernance, la protection de l'environnement et des droits de la personne, et la souveraineté et la diplomatie internationales.

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ

ᑲᑲᑲᑦ

ᑲᑲᑲᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ
ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ – ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᐅᑭᐅᑦᑕᑦᑕᑭᑦ
ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ,
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ – ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑲᑲᑲᑦ

ᐅᑭᐅᑦᑕᑦᑕᑭᑦ, ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᐅᑭᐅᑦᑕᑦᑕᑭᑦ
ᐅᑭᐅᑦᑕᑦᑕᑭᑦ ᑕᑭᑭᑦᑕᑦᑕᑦ

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président, JF Boucher Consulting Ltd.

Jose Kusugak, *coprésident du CA;*
président, Inuit Tapiriit Kanatami

Robert Corell, *cadre supérieur,*
American Meteorological Society

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Nunavut Tunngavik Incorporated

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Service météorologique du Canada,
ministère de l'Environnement

Louis Fortier, *directeur scientifique et*
directeur général, ArcticNet, membre d'office

Martin Fortier, *directeur exécutif et*
directeur des opérations, ArcticNet,
membre d'office non votant

Irwin Itzkovitch, *sous-ministre adjoint,*
Sciences de la Terre,
Ressources naturelles Canada

Joanne C. Keselman, *vice-présidente à la*
recherche, Université du Manitoba

Raymond Leblanc, *vice-recteur à la*
recherche, Université Laval

Mark Nuttall, *professeuse,*
Université de l'Alberta

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David Thomas, *président du CA; président,*
The Axyx Group

Wendy Watson-Wright, *sous-ministre adjointe,*
Sciences, ministère des Pêches et des Océans

Ed Wojczynski, *chef de division, Power Planning*
and Development, Hydro-Manitoba

ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕ ᑲᓂᓂᓂᑦᑕ

ᓂᓂ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕ, ᐃᓂᓂᑦᑕᑦᑕ,
ᓂᓂᓂ ᓂᓂ ᑦᑕᑦᑕᑦᑕ ᓂᓂᓂ

ᓂᓂ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕ, ᐃᓂᑦ ᑕᓂᓂᑦ ᑲᓂᑕᑦ

ᐃᑦᑕᑦ ᑕᑦᑕᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕ, ᐃᑦᑕᑦᑕᑦᑕᑦ
ᓂᓂᓂᑦᑕᑦᑕᑦ ᑲᓂᓂᓂᑦᑕᑦ

ᓂᓂ ᓂᓂᓂ, ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦ ᐃᓂᓂᓂ
ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦ,
ᑦᑕᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ

ᓂᓂᑦ ᓂᓂᓂ, ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦ ᐃᓂᓂᓂ
ᑕᓂᓂᓂᑦᑕᑦ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦ,
ᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᓂᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ

ᐃᓂᑦ ᐃᓂᓂᑦᑕᑦᑕᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦ ᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦ
ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᓂᓂᑦ ᐃᑕᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑲᓂᑕᑦ

ᓂᓂᑦ ᓂᓂᓂᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦ ᑦᑕᑦᑕᑦᑕᑦᑕᑦ,
ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᓂᓂᑕᑦ

ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᓂᓂ

ᓂᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕ

ᓂᓂ ᓂᓂᓂ, ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦ
ᐃᓂᓂᓂ ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕᑦᑕ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ
ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᑦᑕᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ

ᓂᓂᑦ ᓂᓂᓂ, ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦ ᐃᓂᓂᓂ
ᑕᓂᓂᓂᑦᑕᑦ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦ,
ᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᓂᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ

ᐃᓂᑦ ᐃᓂᓂᑦᑕᑦᑕᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦ
ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᓂᓂᑦ ᐃᑕᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑲᓂᑕᑦ

ᑕᓂᓂᑦ ᑕᓂᓂᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᐃᓂᓂᓂ ᐃᓂᓂᓂᑦ, ᐃᓂᓂᓂᑦ

ᐃᓂ ᓂᓂᓂᓂᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕᑦᑕᑦ
ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᓂᓂᑕᑦ ᐃᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ

ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕ ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᓂᓂᓂᑦᑕᑦᑕᑦᑕ

ᐃᓂᓂᓂ ᑕᑦᑕᑦ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᐃᓂᓂᓂ ᐃᓂᓂᓂᑦ, ᐃᓂᓂᓂᑦ

ᓂᓂᑦ ᓂᓂᓂ, ᐅᐃᑦᓂᐸᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦ ᐃᓂᓂᓂ
ᑕᓂᓂᓂᑦᑕᑦ ᓂᓂᓂ, ᐃᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ ᑕᓂᓂᓂᑦᑕᑦᑕᑦ,
ᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ, ᓂᓂᓂᓂᑦᑕᑦᑕᑦᑕᑦᑕᑦ

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American Meteorological Society

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des opérations, ArcticNet, membre d'office
non votant

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de la Terre, Ressources naturelles Canada

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des opérations, ArcticNet, membre d'office
non votant

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Sciences de la Terre, Ressources
naturelles Canada

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président, The Axys Group

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and Development, Hydro-Manitoba

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des opérations, ArcticNet, membre d'office
non votant

ᐱᕐ ᐃᕈᕐ, ᐃᕐᕋᐃᐅᐅᕐ ᐅᕐᕋᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐ,
ᐃᐃᕐ ᐅᐱᕐ ᐃᐃᐅᐅ

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ᐅᐅᕐ ᕈᕐᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐᕐ, ᐃᐃᕐ ᐃᕐᕐᕐᕐᕐᕐᕐ
– ᐃᐃ

Duane Smith, *président, Conférence*
circumpolaire inuite du Canada

ᐅᐅᕐ ᐅᕐᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐ ᐃᕐᕐᕐᕐ, ᐱᕐᕐᕐ

David Thomas, *président du comité; président,*
The Axys Group

ᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Comité de gestion de la recherche

ᐅᐅ ᕐᕐᕐ, ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐ
ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ,
ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Louis Fortier, *président du comité,*
directeur scientifique et directeur général,
ArcticNet, membre d'office

ᐅᕐᕐ ᐃᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐ ᕐᕐᕐᕐᕐ
ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐ
ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᐃ

Douglas Bancroft, *directeur, direction de*
l'océanographie et du climat,
Pêches et Océans Canada

ᐅᐅᕐ ᐅᕐᕐ, ᐃᕐᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᕐᕐᕐᕐ

David Barber, *professeur, Université du Manitoba*

ᕐᕐᕐ ᐃᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐ, ᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐ
ᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐ

Larry Carpenter, *président, Conseil consultatif*
de la gestion de la faune, Secrétariat commun

ᐃᕐᕐ ᐃᕐᕐᕐ, ᐃᕐᕐᕐᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐ
ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᕐᕐᕐ

Éric Dewailly, *professeur, Centre de recherche*
du Centre hospitalier de l'Université Laval

ᕐᕐᕐ ᕐᕐᕐᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐ
ᐅᕐᕐᕐᕐᕐᕐᕐ ᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐ,
ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ, ᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Martin Fortier, *directeur exécutif et directeur*
des opérations, ArcticNet, membre d'office
non votant

ᐃᕐᕐ ᕐᕐᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐᕐᕐ,
ᕐᕐᕐᕐ ᐅᕐᕐᕐᕐ ᐃᕐᕐᕐ

Philippe Lavallée, *gestionnaire des politiques*
d'environnement,

ᐅᕐᕐ ᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐ, ᕐᕐᕐᕐ
ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᐃᕐᕐ ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Nunavut Tunngavik Incorporated

ᕐᕐ ᐅᕐᕐ, ᐱᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐ
ᐃᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Donald Lemmen, *chef de la direction*
intérimaire, Sciences de la Terre,
Ressources naturelles Canada

ᕐᕐᕐᕐ ᕐᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐ, ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐ
ᐱᕐᕐᕐᕐᕐᕐᕐ

Lisa Loseto, *présidente, Association des*
étudiants d'ArcticNet, membre d'office non votant

ᕐᕐᕐᕐ ᕐᕐᕐ, ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ,
ᐃᐃᕐᕐ ᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᐃᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Gordon McBean, *professeur,*
Université de l'Ouest de l'Ontario

ᕐᕐᕐ ᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐ, ᐃᐃᕐᕐ ᐅᐱᕐ ᐃᐃᐅᐅ

Stephanie Meakin, *conseillère technique,*
Conférence circumpolaire inuite

ᐅᕐᕐ ᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐ, ᐅᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᕐᕐᕐᕐᕐᕐᕐᕐᕐ
ᐱᕐᕐ ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ ᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐᕐ

Scot Nickels, *directeur, Inuit Tapiriit Kanatami*

Δᄆᄆᄆᄆᄆᄆᄆ ᄆᄆᄆ
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Russel Shearer, *directeur, direction de la recherche sur les sciences et les contaminants dans le Nord, ministère des Affaires indiennes et du Nord Canada*

Warwick Vincent, *professeur, Université Laval*

Douglas Whelpdale, *directeur, Service météorologique du Canada – Direction de la recherche climatologique*

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Elizabeth Ford, *coordonnatrice de recherche inuite — Nunatsiavut*

Martin Fortier, *directeur exécutif et directeur des opérations, ArcticNet, membre d’office non votant*

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Stephanie Meakin, *conseillère technique, Conférence circumpolaire inuite*

Scot Nickels, *directeur, Inuit Tapiriit Kanatami*

Shannon O’Hara, *coordonnatrice de recherche inuite — Inuvialuit*

Sammy Tukkiapik, *coordonnateur de recherche inuit — Nunavik*

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Louis Fortier, *directeur scientifique, président et directeur général, ArcticNet*

Martin Fortier, *directeur exécutif et directeur des opérations, ArcticNet, membre d’office non votant*

ዳር ስፕሮቲብ, ለፕሮጀክቶች ልማት,
የፕሮጀክቶች ጋራ ጥራት

Suzette Forget, *agente financière,*
trésorière, ArcticNet

የፖለቲካ ጋራ, የኮሙኒኬሽን ፕሮጀክቶች
ጋራ ጥራት

Jaime Dawson, *agente de*
communications, ArcticNet

የፖሊሲ ፕሮጀክቶች የፕሮጀክት ፍላጎት ፊርማ,
የፕሮጀክቶች ጋራ ጥራት

Natalie Desmarais, *adjointe de*
direction, ArcticNet

የፖለቲካ ፕሮጀክት ፍላጎት ፊርማ

Sylvain Tougas, *concepteur de*
site Web, ArcticNet

ፊርማ, ጋራ 1

ጋራ ስራ ጋራ, ጋራ 2

የፖሊሲ ፕሮጀክት ፍላጎት ፊርማ, ጋራ 3

Keith Levesque, *coordonnateur de la*
recherche en mer, ArcticNet

ፊርማ ስራ ፊርማ, ጋራ 4

ፊርማ የፖለቲካ ፕሮጀክት ፍላጎት ፊርማ

Coordonnateurs de thèmes de recherche

የፖሊሲ ፕሮጀክት ፍላጎት ፊርማ ፊርማ, ፊርማ ፊርማ,
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Claudine Forest, *thème 1*
Christine Barnard, *thème 2*
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Coordonnateurs de recherche inuits

ፊርማ ፊርማ ፊርማ ፊርማ

Barbara Armstrong et Shannon O'Hara, *Inuvialuit*
Jenny Ipirq, *Nunavut*
Sammy Tukkiapik, *Nunavik*
Elizabeth Ford, *Nunatsiavut*

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Établissements membres et chercheurs du réseau

- ፊርማ ፊርማ

Université Carleton

INRS – Eau, ፊርማ ፊርማ ፊርማ

- Grant Gilchrist
- John Stone

- ፊርማ ፊርማ

Université Dalhousie

INRS-ፊርማ ፊርማ ፊርማ, ፊርማ ፊርማ ፊርማ

- David Scott

- ፊርማ ፊርማ

Institut national de la recherche scientifique (INRS) — Eau, Terre et Environnement

- ፊርማ ፊርማ

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- Isabelle Laurion

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Institut national de la recherche scientifique (INRS) — Urbanisation, Culture et Société

- ፊርማ ፊርማ

- Carole Lévesque

- ፊርማ ፊርማ

Université McGill

- ፊርማ ፊርማ

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- Richard Janda
- Michael Libman
- Wayne Pollard
- Neil Price

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- D_er_r^c L_r^α
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- C_r^σ >Δ_r
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- Δ_r^b Δ_r^c
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- Éric Dewailly
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- Christopher Furgal
- Jacques Gagné
- Gilles Gauthier
- Pierre Gosselin
- Bruno Hubert
- Patrick Lajeunesse





www.arcticnet.ulaval.ca



ArcticNet

Pavillon Alexandre-Vachon
Room 4081, Université Laval
Quebec City, Quebec G1K 7P4
T: (418) 656-5830
F: (418) 656-2334

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Room 4081, Université Laval
Quebec City, Quebec G1K 7P4
ᐅᓃᓃᓃᓃ: (418) 656-5830
ᐅᓃᓃᓃᓃᓃ: (418) 656-2334

ArcticNet

Pavillon Alexandre-Vachon
Local 4081, Université Laval
Québec (Québec) G1K 7P4
Tél. : (418) 656-5830
Télé. : (418) 656-2334

www.arcticnet.ulaval.ca