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## NCE Coordinator's Message

Since international negotiations on climate change were launched 10 years ago at the 1992 United Nations Conference on Environment and Development in Rio, the amount of research devoted to improving our understanding climate change and its impacts has substantially increased.

The significant increase in information over the past decade has posed challenges to those wanting to keep track of new developments. Many organizations and groups are concerned by the implications of climate change including researchers, communities, indigenous peoples, non-government organizations, industry, and many levels of government. Sharing information amongst all of these groups is essential, but also not without its challenges.

In response to these challenges, the Northern Climate ExChange (NCE) was established in February 2000 to provide and independent source of information, develop shared understanding, and promote action on climate change in northern Canada. The centre is a unique Yukon partnership and is funded by the Government of Canada, the Government of the Yukon, and Yukon College.

The NCE established two new programs and undertook a number of projects over the past to help northerners reduce greenhouse gas emissions, become more aware of climate change impacts and

how to adapt to a changing world.

The NCE is host to the northern region of the Canadian Climate Impacts and Adaptation Research Network (C-CIARN-North). A partnership of the NCE, Nunavut Research Institute and Aurora Research Institute, the goal of this initiative is to build a network of researchers and stakeholders to improve our knowledge of climate change impacts, and identify appropriate adaptation measures.

The NCE is also host to the Yukon Climate Change Public Education and Outreach Hub. Similar to C-CIARN North, the Hub is part of a national network that is collaborating with similar initiatives across Canada. Both of these initiatives were established through the National Climate Change Process to contribute to Canada's ability to meet its climate change commitments under the Kyoto Protocol.

I would like to acknowledge the tremendous efforts of a number of dedicated individuals and organizations that have provided support, advice and assistance to the NCE over the past year. Our continued success in promoting the climate change issue is in large part due to these invaluable contributions.

Your comments on past, present and future NCE programs and activities are encouraged. I look forward to hearing from you!

Aynslie Ogden  
M.Sc., R.P.F., R.P.Bio., P.Ag.



## About the NCE

The Northern Climate ExChange (NCE) opened in February 2000, at the Northern Research Institute of Yukon College. The centre was created in response to growing concern over the impacts of climate change on the land, life, and communities of northern Canada. The effects of climate change are projected to be greatest and to come most swiftly to the polar regions of the world, and there is growing evidence that the impacts of climate change are already being noticed in these regions.

While the focus of the work of the NCE is on activities within the Yukon, the NCE has received funding to undertake projects that are relevant across northern Canada. Funding for the centre is from the Government of Canada, Government of Yukon and Yukon College. The NCE receives direction and guidance from a Management Committee and Program Committee.

***The mission of the Northern Climate ExChange is to provide a credible independent source of information, develop shared understanding and promote action on climate change in northern Canada.***

## Approach

Work carried out by the NCE adheres to a number of guiding principles. The

approach of the NCE:

- Recognizes that community participation in research and decision making is essential to long term resource, environmental and cultural sustainability in the North;
- Realizes the opportunity to strengthen links across northern Canada and among circumpolar nations through the exchange of knowledge and expertise; and
- Places appropriate emphasis on the collection of local information and scientific knowledge and perspectives in order to reflect northern insight and needs.

## Goals

Programs, projects and initiatives carried out by the NCE are consistent with one or more of the following goals. The NCE Steering Committee developed these goals when the centre was established. The goals provide strategic direction to present and future activities of the NCE.

Goals of the NCE are to:

- Facilitate a clearer understanding of the impacts of climate change on the northern economy, environment and social fabric;
- Support the contributions of indigenous peoples to the climate change knowledge base by promoting the acceptance of traditional knowledge and aboriginal expertise;
- Increase science and research capacity among northerners and improve the links between scientific



and local information;

- Promote local economic opportunities in the development of resource efficient technologies and practices that can contribute to mitigating climate change impacts;
- Foster partnerships and strengthen Canada's role as a scientific and political leader in the circumpolar North;
- Contribute to regional and national northern policy decisions and development of policy tools;
- Foster consensus-based decision making especially among northern communities;
- Facilitate the development of a circumpolar "trade route" to share knowledge, expertise and technology; and
- Increase general awareness of the issue of climate change, its impacts on the north, and the global benefits of northern-based research.
- Advance a virtual framework for circumpolar climate change research alongside the University of the Arctic developments; and
- Promote the establishment of a series of coordination points in the North to anchor climate change research activities.
- Provide public education and outreach programs on the impacts of, and adaptations to, climate change in the North.

## **Vision**

The long-term vision of the NCE is to serve as a northern entry point into the study of climate change in the North by:

- Promoting and coordinating research and education on the impacts of, and adaptations to climate change in the North;
- Supporting the development of resource-efficient technologies and practices that can contribute to mitigating climate change and its impacts;
- Facilitating the exchange of scientific and local information, technology, and expertise on climate change.

***The Northern Climate  
ExChange is a unique  
northern partnership  
involving communities,  
researchers, educators and  
many levels of government.***



## Governance

The NCE is governed by the policies and procedures of its host institution, and the terms and conditions of its funding agreements.

The NCE also receives guidance from two steering committees, the NCE Management Committee and NCE Program Committee, and a bi-annual NCE Visioning Session that is open to all interested parties.

### ***Host Institution***

The NCE is a program of the Northern Research Institute at Yukon College.

Yukon College is the only public post-secondary institution in the Yukon, and is a board-governed entity established under Yukon's *College Act*. Yukon College is part of the University of the Arctic – a burgeoning network of academic institutions and programs in the circumpolar North – and is playing an important role in developing program structures to deliver higher education.

The Northern Research Institute (NRI) is the research unit of Yukon College. The NRI promotes, coordinates and undertakes research activities that both complement the College's goal of excellence in all areas of Yukon and Northern Studies, and fosters development of northern capabilities.

## ***Funding Agreements***

Yukon College holds four contribution agreements that fund NCE programs and activities. Three agreements are with different components of the Government of Canada's Climate Change Action Fund, and one agreement is with the Government of Yukon's Department of Environment.

### ***Steering Committees***

Steering committees of the NCE have evolved to meet the changing needs and requirements of NCE programs and activities.

The NCE formerly had a single Steering Committee. Following the 2001 Visioning Session, the Steering Committee evolved into a relatively small Management Committee that would meet more frequently, and a larger Advisory Committee that would meet annually.

Following the 2001 Visioning Session, discussions on the NCE Committee structure were ongoing within the Management Committee. The Committee decided to replace the Advisory Committee with ad-hoc Program Committees and a regular bi-annual Visioning Session. This new structure evolved to allow for a balance between the need for a focused management group to support NCE operations, and broader stakeholder involvement to assist with setting priorities for NCE activities.



Committee roles and responsibilities are summarized below, and terms of reference are available upon request.

### **Management Committee**

The Management Committee is comprised of representatives from the Government of Yukon, Government of Canada and Yukon College. The Committee was established to provide direction to NCE and its staff.

Duties of the Management Committee are to:

- determine the annual financial and/or in-kind contribution of each partner by December 31 of each year;
- assist the NCE in accomplishing its goals and objectives;
- review and approve new program and project proposals developed by NCE;
- review and approve annual program evaluations prepared by NCE; and
- seek advice, guidance and support from NCE Program Committees and Stakeholders.

### **Program Committees**

NCE Program Committees assemble around topics or projects on an as-needed basis. This ad-hoc committee structure was developed to provide an opportunity to discuss the NCE and its associated programs and to provide technical support and guidance to NCE staff on their projects and initiatives. More than one NCE Program Committee may exist at a time, each with a different focus or project.

Depending on the nature of the discussions, representation on NCE Program Committees is sought from a number of government and non-government departments and agencies.

Currently, the NCE administers the northern region of the Canadian Climate Impacts and Adaptation Research Network (C-CIARN North). This network has established Yukon, Northwest Territories and Nunavut working groups. The Yukon C-CIARN North working group falls under the NCE Program Committee structure.

### ***Visioning Session***

The NCE hosted its first Visioning Session in May 2001. Due to the success of this session in engaging a broader stakeholder group, the NCE Management Committee decided later in the year to make the NCE Visioning session a regularly scheduled bi-annual event. This session is open to all interested parties.

The Visioning Session has two primary goals: to review NCE progress and assess the extent to which the operations of the centre are contributing to achieving the goals; and to provide an annual forum for broader stakeholder involvement and input into the activities and direction of the NCE.



## Staff

NCE staff coordinates a wide range of climate change programs and services for Yukon and northern Canada, and participate in the Yukon's climate change strategy.

In the 2000-2001 fiscal year, the NCE consisted of two permanent term staff positions – NCE Project/Research Officer and Research Assistant.

During the 2001-2002 fiscal year the NCE Project/Research Officer position was reclassified to the NCE Coordinator position, and two new positions were created – C-CIARN Program Officer and NCE Communications Officer. Funding for the Research Assistant position was discontinued. Descriptions of the staff positions are provided below.

Numerous service and employment contracts were also issued to assist the NCE with specific project tasks including workshop facilitation, web site maintenance, and research.

Last year, the NCE again received assistance from the Federal Public Sector Youth Internship Program delivered by the YMCA. The services of the Youth Intern were provided to the NCE by Environment Canada – Canadian Wildlife Service office in Whitehorse, for a one-year term.

### ***NCE Coordinator***

Formerly the NCE Project/Research

Officer, this position was reclassified in February, 2002 to NCE Coordinator.

This position is responsible for co-ordinating the day-to-day operations of the NCE and its research, public education, and economic development programs, and supervision of NCE staff. Responsibilities include:

- Identifying research gaps and study opportunities;
- Establishing and maintaining databases/web sites;
- Ensuring projects operate in accordance with the goals and policies of the NCE and its supporting partners;
- Planning, co-ordinating, and advertising occasional forums and other public events/sessions/consultations;
- Developing and maintaining a network of climate change contacts, in the scientific, public education and economic sectors;
- Identifying strategically important organizations and proactively seeking partnerships with those organizations;
- Developing and maintaining on-going relationships with supporting agencies and members of the Steering Committee;
- Planning, arranging and assisting with the meetings and work of the Steering Committee and providing for secretariat services;
- Co-ordinating research, public education, and technology adaptation activities;
- Serving as the public's principal



- “point of contact” with the NCE;
- Seeking new project funding and negotiating new agreements between the NCE and new partners/participants; and
- Developing and maintaining a communications strategy.
- Managing staff and activities of the northern region of C-CIARN North and the Yukon Public Education and Outreach Hub.

### ***C-CIARN Program Officer***

This position is one of three coordinators of the northern office of the Canadian Climate Impacts and Adaptation Research Network (C-CIARN). The other C-CIARN North coordinators are located at the Aurora Research Institute in Inuvik, and the Nunavut Research Institute in Iqaluit.

The C-CIARN Program Officer coordinates the day-to-day operations of the C-CIARN North program by:

- Providing an open process for involvement in climate change impacts and adaptation (I&A) research by various stakeholders (i.e.: communities, researchers, funding agencies, governments, etc.) through such activities as workshops, correspondence, website, etc.
- Identifying I&A research gaps and study opportunities in the North through various research methods such as literature searches, gap analysis, and other research methods;
- Maintaining and updating C-CIARN North databases/website;
- Identifying various government and non-government funding opportunities for researchers involved in I&A.
- Carrying out C-CIARN program activities in cooperation with partner institutes – Aurora Research Institute and Nunavut Research Institute;
- Planning and forecasting I&A activities to ensure project deliverables and deadlines are met;
- Ensuring I&A projects operate in accordance with the goals and policies of Northern Climate Exchange and its supporting partners;
- Developing and maintaining on-going relationships with supporting agencies, members of the Steering Committee, and researchers through meetings, correspondence, and reporting;
- Writing final project evaluation reports and developing funding proposals as directed by supervisor;
- Planning, arranging and assisting with meetings and work of the Steering Committee and acting as its secretary.
- Providing information on I&A research to communities, governments, business, and industry;
- Liaising with and representing C-CIARN North to external partners and community groups;
- Developing and maintaining a communications strategy to provide greater visibility and understanding of I&A issues and needs;
- Travelling to and attending community and Committee





meetings.

- Updates and consults with other NCE staff, members of the Steering Committee, scientists, educators, policy makers, and others working on climate change I&A on the activities of the C-CIARN North Program.

## ***NCE Communications Officer***

This position is responsible for the outreach, communications and project management of the Yukon Hub of the National Climate Change Public Education and Outreach Hub Pilot Program (PEO Hub). The Hub acts as an information and coordination centre of climate change outreach activities.

With support from the NCE Coordinator, this position is responsible for enhancing awareness and understanding and encouraging action on climate change through:

- Developing and maintaining a communications strategy to provide greater visibility and understanding of climate change issues and needs in the Yukon.
- Establishing a territory-wide working group to coordinate, plan, organize and facilitate climate change education and information activities for a variety of audiences including governments, communities, and industry.
- Maintaining a database of contacts and audiences.
- Providing information on climate change through a variety of communication techniques including the creation and design of print

materials such as factsheets, posters, portable displays, brochures, newsletters, and newspaper advertisements. With assistance from a website technician, maintaining information on the NCE website.

- Exploring opportunities for Yukon-relevant community-based climate change action projects and promoting and supporting community events on climate change including information and education sessions and school support.
- Anticipating, creating and taking advantage of publicity opportunities, including preparation of story lists, media releases, tips and media visits.
- Employing common survey techniques to evaluate and compare progress in raising public awareness on climate change.
- Carrying out HUB program activities in cooperation with program partners and NCE staff;
- Planning and forecasting activities to ensure project deliverables and deadlines are met;
- Ensuring projects operate in accordance with the goals and policies of NCE and its supporting partners;
- Developing and maintaining on-going relationships with supporting agencies and members of the NCE Steering Committee and Hub Working Group through meetings, correspondence, and reporting;
- Writing final project evaluation reports and developing funding proposals related to public outreach as directed by supervisor;
- Planning, arranging and assisting with



meetings and work of the Hub Working Group and acting as its secretary;

high school diploma and youth that have graduated from a secondary or post-secondary institution.

- Planning, coordinating, and advertising meetings and workshops;
- Providing information to communities, governments, business, and industry;
- Attending national meetings and liaising with colleagues at other Hub's to exchange information.
- Attending national Hub Pilot Advisory Team meetings.
- Liaising with the northern node of the Climate Change Impacts and Adaptation Research Network and the Yukon Energy Solutions Centre.
- Travelling to and attending community and Committee meetings.

### ***Youth Intern***

The NCE has been assisted by Youth Interns from Environment Canada. Sponsored by the Treasury Board of Canada Secretariat and delivered YMCA Canada, Federal Public Sector Youth Internship Program (FPSYIP) Interns are employed for a one-year period. Interns have assisted the NCE from June 1999 to June 2000 and March 2001 to March 2002.

FPSYIP was launched October 1, 1997 due to Federal Government concern over the significant youth unemployment problem. The purpose of the program is to provide youth with the opportunity to acquire practical work experience through paid internships. There are separate programs for youth without a



## NCE Programs

Two new NCE programs were launched in 2001 that are designed to help northerners with future climate changes.

These programs are part of the national strategy to meet its international climate change commitments. The National Climate Change Process established the Canadian Climate Impacts and Adaptation Research Network (C-CIARN) and the Public Education and Outreach Hub Network (PEO Hubs). These programs have offices across the country, and the NCE delivers these programs in the Yukon.

The NCE is very pleased about the opportunities provided by these new initiatives because these initiatives will provide critical support for ongoing research and information exchange.

### **C-CIARN North**



Canadian Climate Impacts and Adaptation Research Network

The NCE has been involved with developing a vision for the northern node of the Canadian Climate Impacts and Adaptation Research Network, or C-CIARN North, since early 2000, when the Natural Resources Canada and Environment Canada hosted the Climate Change Impacts and Adaptation strategies for Canada's Northern Territories Workshop in Yellowknife, NWT. The NCE was involved with the organizing committee for this workshop.

The workshop generated a number of recommendations on how an impacts and adaptation research network should be established in northern Canada.

Since this workshop, the NCE and partner institutes worked to negotiate the establishment of a network that is in keeping with the vision generated during the Yellowknife workshop. In late 2001, the three Northern Research Institutes were successful in obtaining funding for a partnership approach to implement this initiative in the North. The NCE is the lead organization in the partnership, and activities are guided through working groups in each Territory.

C-CIARN is a national network of centres for coordinating climate change impacts and adaptation research and for disseminating information and research results. Each centre is a point of entry into a region and a region's point of entry to the national network. The objectives are to facilitate and build capacity in climate change impacts and adaptation research, maintain a database and web site, and communicate research throughout the region. C-CIARN facilitates research and training, promotes stakeholder involvement, and provides continuity in the effort to develop scholarship and a shared understanding of present-day and future climate impacts, vulnerabilities, risks, and adaptation.

A separate annual report for C-CIARN North, that describes activities of the network since its establishment in October 2001, is available upon request.

## Yukon Public Education and Outreach Hub

In 2001-2002, the NCE established the Yukon “Hub” of the national Public Education and Outreach Network. The NCE has pilot tested a number of PEO initiatives during its early operations. These pilot initiatives have taught us many lessons about what type of programs are desired by northerners and are successful in the North, and will assist us in joining the national network.

PEO Hubs are being established in each province and territory to provide coordination and a focal point for regional climate change PEO activities, linked and guided at the national level by the Hub Pilot Advisory Team.

The primary focus of a PEO Hub is to help Canadians understand climate change, its impacts on communities and people’s lives and the actions that can be taken to adapt to climate change and mitigate its impacts.

Public education and outreach is essential if Canadians are to understand what climate change means to them, and if they are to take action to reduce personal greenhouse gas emissions. Outreach is also critical in building public support for broader policies and actions that will be put in place as governments and businesses move to address climate change.

A separate annual report for the Yukon PEO Hub, that describes activities of the hub since its establishment in November 2001, is available upon request.





## Project Highlights

The mandate of the NCE includes being an independent source of information on climate change in northern Canada. In addition, we seek to develop shared understanding and promote action on climate change. What follows are descriptions of some of the projects underway at the NCE and its associated public education and outreach hub and impacts and adaptation research network programs, that are directed at reaching these goals.

### NCE Website



Launched in summer 2000, the NCE website ([www.taiga.net/nce](http://www.taiga.net/nce)) is an interactive, up-to-date site for climate change information relevant to Canada's North. The site contains information on the projects and programs underway at the NCE and throughout the North. Along with information about the NCE, the website provides current climate change news, reports, information, conferences, resources, and funding opportunities.

In 2001-2002, the design of the website underwent a major overhaul.

### NCE Email List Serve

The NCE email list serve distributes regular updates to subscribers on the latest in climate change news, funding opportunities, events, reports, and projects relevant to northern Canada. Information distributed on the email network is northern-focused or of interest to northerners. Over 200 people subscribe to the email network.

C-CIARN North also established an email-based Logistics Line. This service is provided to allow researchers to distribute news, make contacts, and exchange information about research in northern Canada, or to discuss ways of collaborating or sharing resources. The Logistics Line is administered through the Canadian Polar Commission's CPIN website.

### Northern Review Special Edition on Climate Change

Proceedings for the Circumpolar Climate Change Summit and Exposition will be published in a special edition of *The Northern Review*. This special edition is being edited and compiled by NCE staff. The proceedings will include a summary report prepared by Infolink Consultants Inc., and submissions that complement this special edition and address the main conference themes.

*The Northern Review*, a multi-disciplinary journal of northern issues, is the only scholarly journal published North of 60 in Canada. Published by Yukon College, it has published over fifty literary pieces, more than 130



papers, including conference proceedings, in both general and special thematic issues, in the arts, social sciences and humanities. The papers have covered a broad range of circumpolar human issues and topics.

### **Northern Climate Change Schools Program**

This flexible, project-based pilot program introduced climate change into the curriculum of nine northern classrooms.



Students and educators from three classrooms in each territory, at both elementary and secondary grade levels, were involved in this pilot project. Partners in this project included Departments of Education, and Departments of Environment/Renewable Resources in each of the three northern territories. Partners to the project provided resources in the areas of co-ordination and support, in-service teacher training, development of presentational materials and technical expertise.

The project involved hands-on data collection through GLOBE protocols and elder interviews, community outreach and internet exchanges.

Teachers in each classroom also developed lesson plans for activities that ranged from monitoring to translating Inuktitut names for clouds.

The Northern Climate Change Schools website at [www.taiga.net/nce/schools](http://www.taiga.net/nce/schools) displays the results of the work undertaken in this project, and includes a students corner, teachers corner, student data exchange, and information on the pilot project. The site includes an inventory of existing climate change resources for both students and teachers, lesson plans developed during the project, and the results of climate change projects and activities undertaken during the pilot project.

The website also includes online templates to facilitate the sharing of information from students and teachers not involved in the pilot project. The NCE will continue to promote and expand the use of the site and resources generated during this pilot project.

### **Northern Assessment of the Impacts of Climate Change**

Beginning in 1999 and carrying on into 2002, the Northern Climate ExChange (NCE) coordinated a Gap Analysis Project, aimed at assessing the current state of knowledge about climate change and its impacts in northern Canada. With Environment Canada as its main partner, and with consulting help from the University of Alberta, Ryerson University, GeoNorth Limited and LegendSeekers Anthropological Research, NCE set out to meet several major objectives:

- Determine what is currently known about climate change and its impacts in northern Canada, and incorporate this information into a database.
- Identify trends or patterns in the available information.
- Use this information to help identify research, monitoring, technological, and policy priorities.
- Improve collaboration and coordination among and between researchers, communities, governments, non-government organizations, and residents of northern Canada.

The overall goal of the project was to determine where information on climate change is adequate and where there are gaps adequate and where there are gaps. Documenting existing knowledge will provide sound baseline information on what is known about climate change and its effects on northern Canada. This information will assist those attempting to establish priorities for climate change research, monitoring, technological development, policy development, and other matters in Canada's North. It will also help to facilitate links between different people and organizations working towards similar goals.

The NCE Gap Analysis Project created several products that offer an assessment of the state of knowledge on climate change in northern Canada:

- The Infosources Database.
- The Directory of Contacts.
- The Matrix Maker.
- The report of a workshop on climate change research and priorities.

- Two reports assessing the level of documented local and traditional northern knowledge about climate change.
- Two reports assessing the completeness and value of the Infosources Database.
- The NCE Knowledge Site, an Internet resource containing most of these products, and more.
- An overview report.

All products are available on the Internet through the Northern Climate ExChange website



In general, the NCE Gap Analysis Project revealed:

- Inequalities in the amount of existing information across systems.
- Greater knowledge and confidence concerning baseline information and predicted temperature changes than for other climate components.
- Strong regional trends for compiled information, with some regions well studied and others barely touched.
- Relatively little documented local and traditional knowledge about



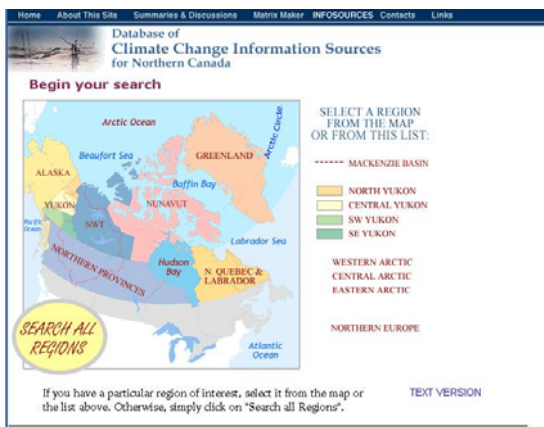
climate change.

- More information about climate change impacts on biological systems with an economic component than those without obvious economic significance.

Many individuals and organizations contributed to the Gap Analysis Project by sharing their knowledge and their ideas about how to proceed. The breadth of knowledge and diversity of perspectives represented by these different groups greatly strengthened the overall assessment.

## Database of Northern Climate Change Information

The NCE maintains a database of information sources on climate change information in northern Canada. The database is accessed through the NCE website.

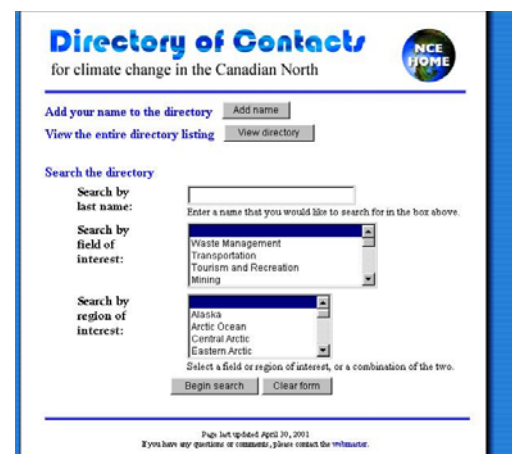


The Infosources Database home page provides a graphical interface, in the form of a map of the regions covered by the database. Clicking on a region will bring up a search screen for that region.

Alternatively, it's possible to search all regions at once. There is also a text version of the search page, which bypasses the map.

The entries can be searched by category, format, words within the title, author name, summary, and agency. You can also call up a full listing of all entries within a region or a full listing of the complete database.

Currently the database is maintained and updated by C-CIARN North. Last year, the database was substantially updated and now contains over 1800 references.



## Directory of Contacts for Climate Change in the Canadian North

The NCE also maintains a Directory of Contacts for Climate Change in the Canadian North is an online listing of people interested in a variety of aspects of climate change in the North.

It's not a comprehensive listing. Individuals voluntarily submit their contact information for posting on the site. The Northern Climate Exchange





does not add contacts unilaterally, nor does it verify the information.

The Directory's home page offers three options: adding your own name to the Directory, viewing the complete list, or searching the Directory. The Directory is an online database, searchable by last name, field of interest, and region of interest.

The Directory of Contacts requires ongoing promotion to expand its use and, therefore, usefulness. C-CIARN North has included the promotion of this Directory within its workplan.

### NCE Visioning Session

In April 2001, after a little more than a year of operation, the key stakeholders agreed it was time to review the ExChange to examine progress to date. A visioning session was held in May 2001 to assess the extent to which the operations were contributing to achieving the goals. The workshop facilitator, Malloch Graham and Associates, prepared a report summarizing the outcome of the session.

### Bob and Dog Mackenzie

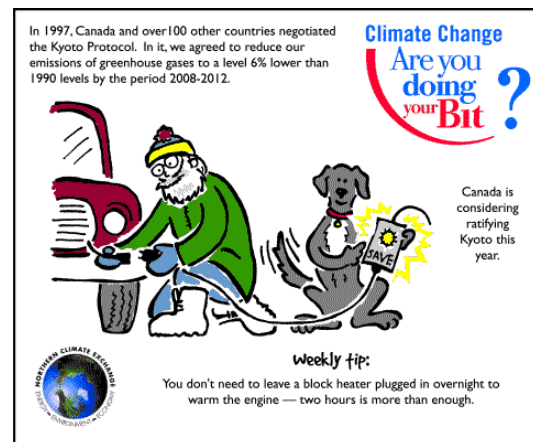
The NCE PEO Hub initiated an advertising campaign to deliver information about climate change to a broad Yukon audience.

- The campaign centres on the new NCE mascots, Bob and Dog Mackenzie. Designed by local artist Tanya Handley, these characters were

developed to deliver climate change tips and facts that are relevant to North on what individuals and communities can do to reduce their greenhouse gas emissions.

The advertising campaign had a broad Think Globally, Act Locally, Climate Change, and incorporated the national *climate change: are you doing your bit* signature line.

The campaign appeared in local newspapers, the local cable television rolling ads channel, as a slide show on the NCE website, and was developed into a screensaver that is downloadable from the NCE website.



### Public Outreach

The NCE has been involved in a number of public outreach activities over the last year. Below is a sampling of some of these activities:

- Co-hosted public presentations from CLIMEXEC in Dawson City and Whitehorse in December 2001 with



the Yukon Science Institute and Federation of Canadian Municipalities.

News and on Internet February 2002.

- Participated in panel discussion at the
- Poster display at the Department of Indian and Northern Affairs workshop on linear development and cumulative impacts in March 2002.
- Provided pedometers and health/climate change information to participants in a healthy living diabetes program
- Developed script for a radio ad on World Health Day in partnership with Recreation and Parks Association of Yukon (RPAY) Active Living Coordinator, Yukon Diabetes Awareness Coordinator and other partners.
- Participated in youth conference, organized by the Bringing Youth Towards Equality (BYTE) society, both at a poster session and a workshops session on environmental issues and activities.
- Developed script for radio ad on National Wildlife Week (theme: Climate is Changing, Help Wildlife Weather the Storm) with Education Coordinator, Yukon Department of Renewable Resources.
- Co-sponsored public information session on the current and future uses of fuel cells with the National Research Institute Industrial Research Assistance Program (IRAP).
- Provided information package on climate change and ozone depletion to Arctic Borderlands Ecological Knowledge Cooperative annual meeting.
- Provided an article on climate change impacts in North for Environment Canada column published in Yukon



## Financial Report

The Northern Climate ExChange received funding from four contribution agreements during the 2001-2002 fiscal year. These contribution agreements are held by Yukon College. Three agreements are with different components of the Government of Canada's Climate Change Action Fund, and one agreement is with the Government of Yukon's Department of Environment.

The following tables summarize NCE revenues and expenditures received during this period. Detailed financial statements are available upon request. It must be noted that the attached summary is not audited financial statements and are only an extraction from Yukon College financial records.

***The Climate Change Action Fund (CCAF) was established in 1998 by the federal government to help Canada meet its commitments under the Kyoto Protocol. Budget 2000 extended the CCAF for three more years to 2004 at \$50 million a year.***



**Table 1**  
**NCE 2001-2002 Cash Revenues Summary**

<b>Funding Source</b>	<b>Description</b>	<b>Amount</b>
Government of Yukon Department of Environment	Funding for Building the Future, Yukon PEO Hub and C-CIARN North activities	\$75,000
Government of Canada - Climate Change Secretariat Climate Change Action Fund – Building the Future	Funding towards the salary and benefits of the NCE Coordinator, in order to continue to build capacity in support of NCE initiatives, including involvement in C-CIARN north and Yukon PEO Hub activities	\$50,000
Government of Canada – Natural Resources Canada - Climate Change Action Fund/Action Plan 2000 Impacts and Adaptation Program	Funding towards the activities of C- CIARN North for NCE and partner institutes, Aurora Research Institute and Nunavut Research Institute	\$73,000
Government of Canada – Environment Canada - Climate Change Action Fund – Public Education and Outreach	Funding towards the activities of the Yukon PEO Hub Program	\$12,500
Other Revenue (PEO Hub)	Travel Support, Summit Revenue Surplus, Publication Sales	\$21,606.56
Other Revenue (C-CIARN)	Travel Support	\$4,678.82
<b>Total Revenue</b>		<b>\$236,785.38</b>



**Table 2**  
**NCE 2001-2002 In-Kind Revenues Summary**

<b>Funding Source</b>	<b>Description</b>	<b>Amount</b>
Yukon College	NCE Administration, Office Space	\$15,000
Yukon College	Yukon PEO Hub Administration, Office Space	\$6,250
Yukon College	C-CIARN North Administration, Office Space	\$6,250
Yukon College	Computer Support	\$3,000
Environment Canada – Canadian Wildlife Service (Whitehorse)	Youth Intern	\$15,000
Environment Canada – Canadian Wildlife Service (Whitehorse)	Internet Server (taiga.net)	\$2,000
Aurora Research Institute	Office Space (photocopiers, fax, telephone, internet, postage, computer support) and Administrative Assistance to support C-CIARN North Coordinator in NWT	\$6050
Nunavut Research Institute	Administration, Office Space to support C-CIARN North Coordinator in NU	\$6666.67
Yukon Science Institute	Two full page advertisements in Yukon News for CLIMEXEC public presentations	\$1,500
<b>Total In-Kind Revenue</b>		<b>\$61,716.67</b>



**Table 3**  
**Building the Future Expenses Summary**

The following table summarizes expenses associated with the Building the Future activities during the 2001 – 2002 fiscal year.

Project Costs	Total Cost	Funding Source	
		CCAF	YTG
NCE Coordinator Salary	\$48,216.52	\$48,216.52	
NCE Coordinator Vacation Pay	\$5,850.90	\$1,783.48	\$4,067.42
NCE Coordinator Yukon Bonus	\$2,750.00		\$2,750.00
NCE Coordinator Benefits	\$7,406.97		\$7,406.97
Term Employee Severance	\$892.93		\$892.93
Casual Employee Salary	\$540.00		\$540.00
Casual Employee Vacation Pay	\$21.60		\$21.60
Casual Employee Benefits	\$38.05		\$38.05
Honoraria	\$450.00		\$450.00
Job Classification	\$668.01		\$668.01
Contract Services	\$1,534.65		\$1,534.65
Memberships	\$855.48		\$855.48
Entertainment	\$60.00		\$60.00
Freight	\$91.75		\$91.75
Telephone/Fax	\$797.98		\$797.98
Promotion/Sponsorship	\$432.77		\$432.77
Premise Rental	\$532.01		\$532.01
Non- Employee Travel	\$1,538.66		\$1,538.66
Program Supplies	\$378.02		\$378.02
Office/Admin Supplies	\$814.08		\$814.08
Internal Printing Services	\$526.31		\$526.31
Total	\$74,396.69	\$50,000.00	\$24,396.69



**Table 4**  
**Yukon PEO Hub Expenses Summary**

The following table summarizes expenses associated with the Yukon PEO Hub during the 2001 – 2002 fiscal year.

Project Costs	Total Cost	Funding Source	
		CCAF	Cash (YTG/Other)
Salaries	\$23,913.21	\$12,500.00	\$11,413.21
Develop & Deliver Activities	\$2,878.36		\$2,878.36
Travel	\$5,190.91		\$5,190.91
Administration	\$328.08		\$325.08
Background & Market Research			
Promotion	\$4,947.91		\$4,947.91
Production of Materials	\$1,034.00		\$1,034.00
Total	<b>\$38,292.47</b>	<b>\$12,500.00</b>	<b>\$25,789.47</b>



**Table 5**  
**C-CIARN North Expenses Summary**

The following table summarizes expenses associated with C-CIARN North during the 2001 – 2002 fiscal year.

<b>Project Costs</b>	<b>Project Details</b>	<b>Funds Expended</b>	<b>Total</b>
Salaries	Salary and benefits – C-CIARN Node Coordinator (Yukon – Claire Eamer)	\$18,896.28	\$50,534.20
	Salary and benefits – C-CIARN Node Coordinator (NWT – Michelle Crossfield)	\$16,559.00	
	Salary and benefits – C-CIARN Node Coordinator (NU – Rick Armstrong)	\$4,297.58	
	Casual Employees – Database Update, Reporting	\$7,933.36	
	Contract Services – ARI Institute	\$1,144.00	
	Contract Services – Event Catering	\$1,704.01	
Node Networking	Includes Travel for Coordinator, Manager and postponed advisory committee meeting - Yukon	\$14,679.97	\$32,014.10
	Includes Travel for Coordinator and postponed advisory committee meeting - NWT	\$4021.00	
	Includes Travel for Coordinator and postponed advisory committee meeting - NU	\$13,313.13	
Computer Support Services	Computer – Hardware and Software Yukon	\$3,155.15	\$9,363.44
	Computer – Hardware and Software NWT	\$3,819.00	
	Computer – Hardware and Software NU	\$2389.29	
Materials, Supplies and Equipment	Materials, Journals, Books, Office Materials, Supplies - Yukon	\$2,526.96	\$3,274.96
	Office Equipment – Desk and Chair NWT	\$748.00	
Communications	Advertising	\$1,299.01	\$7,893.90
	Promotional Materials	\$6,594.90	
Administration	Yukon College (see Table 2)	In-kind	\$3439.35
	Aurora Research Institute (also see in-kind figures in Table 2)	3000.00	
	Nunavut Research Institute (see Table 2)	In-kind	
	Long Distance, Courier, Postage	\$439.35	
<b>Total</b>			<b>\$106,519.95</b>