

**Northern Climate ExChange
2002-2003 Annual Report**

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Northern Climate ExChange

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INTRODUCTION

Information on climate change has significantly increased over the past decade. This has posed challenges to those wanting to keep track of new developments. There is 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.

In response to these challenges, the Northern Climate ExChange (NCE), a program of the Northern Research Institute at Yukon College, was established in February 2000 to provide a credible independent source of information, develop shared understanding and promote action on climate change in northern Canada. Its mandate is to promote increased understanding of and appropriate responses to climate change in the North. The NCE administers the northern offices of the Climate Change Impacts and Adaptation Research Network (C-CIARN North), which has offices in each territory, the Yukon hub of the National Public Education and Outreach Network (Yukon PEO Hub), and a number of other projects and activities. The Government of Canada, Government of Yukon and Yukon College are the primary funders of NCE programs and activities.

This annual report describes work completed by the NCE between April 1, 2002 and March 31, 2003.

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



GOALS OF THE NCE

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.



NCE STAFF

Staff of the NCE coordinate a wide range of climate change programs and services for Yukon and northern Canada, and participate in the Yukon's climate change strategy. During the 2002-2003 fiscal year the NCE team consisted of: NCE Coordinator, C-CIARN Program Officer and NCE Communications Officer. Throughout the year, over a dozen contract employees were hired to provide the NCE team with assistance in the areas of workshop facilitation, report writing, web maintenance, library research, graphic design, and office administration.

NCE Coordinator

As NCE Coordinator, Aynslie Ogden's role is to coordinate and manage the day-to-day operations of the Northern Climate Exchange and its associated programs -- the northern offices of the Climate Change Impacts and Adaptation Research Network, and the Yukon Hub of the National Public Education and Outreach Network

Aynslie's duties include: coordinating and supervising programs and staff at the NCE; identifying research gaps and study opportunities; establishing and maintaining NCE databases and websites; planning and coordinating occasional forums and other public events; developing and maintaining a network of climate change contacts; identifying strategically important organizations and proactively seeking partnerships with or involvement of those organizations in the NCE; administering the NCE's finances; developing and maintaining on-going relationships with supporting agencies; planning, arranging and assisting with the meetings and work of the Management Committee and providing for secretariat services; seeking new project funding and negotiating new agreements between the NCE and new partners/participants; ensuring projects and programs operate in accordance with the goals and policies of Northern Climate ExChange and its supporting partners; consulting with and advising members of the Management Committee, and scientists, educators and technologists working in areas related to climate change; and producing and distributing promotional materials and/or publications.

The major function of the NCE coordinator is to coordinate and manage the day-to-day operations of the NCE through project management, operations and administrative activities

Aynslie is a Registered Professional Forester, Professional Biologist, and Professional Agrologist in the province of British Columbia. Aynslie studied Resource Management at the University of Guelph, where she obtained a Bachelor of Science Degree in Agriculture from the Department of Land Resource Science, and Ecology at Simon Fraser University where she obtained a Master of Science from the Department of Geography. Aynslie's previous

work experience includes habitat restoration, slope stability assessment and stabilization, terrain and ecosystem mapping, environmental impact assessment, and integrated watershed management planning.

Aynsle currently serves as President of the Yukon Science Institute, and sits on the Board of Directors for the Canadian Circumpolar Institute at the University of Alberta, and the Board of Trustees for the Canadian Foundation for Climate and Atmospheric Sciences. She was recently awarded the Yukon College President's Award for Quality Service.

C-CIARN Program Officer

The C-CIARN Program Officer, Claire Eamer, is one of three coordinators associated with the northern offices 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.

With support from the NCE Coordinator, 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, arranging and assisting with meetings and work of the territorial working group 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; consulting with other NCE staff, members of the Working Group, scientists, educators, policy makers, and others working on climate change I&A, on the activities of the C-CIARN North Program.

C-CIARN is building a national network of researchers and stakeholders involved in climate change impacts and adaptation, facilitating research, and helping to provide voice and visibility to the issue

Claire has a Master of Arts degree in English from the University of Saskatchewan, along with senior coursework in biology and environmental science. She has worked as a researcher and writer for many years, specializing in science and history. She also has experience as a university lecturer, agricultural journalist, and CBC Radio reporter. Claire is also a director of the Yukon Science Institute.

NCE Communications Officer

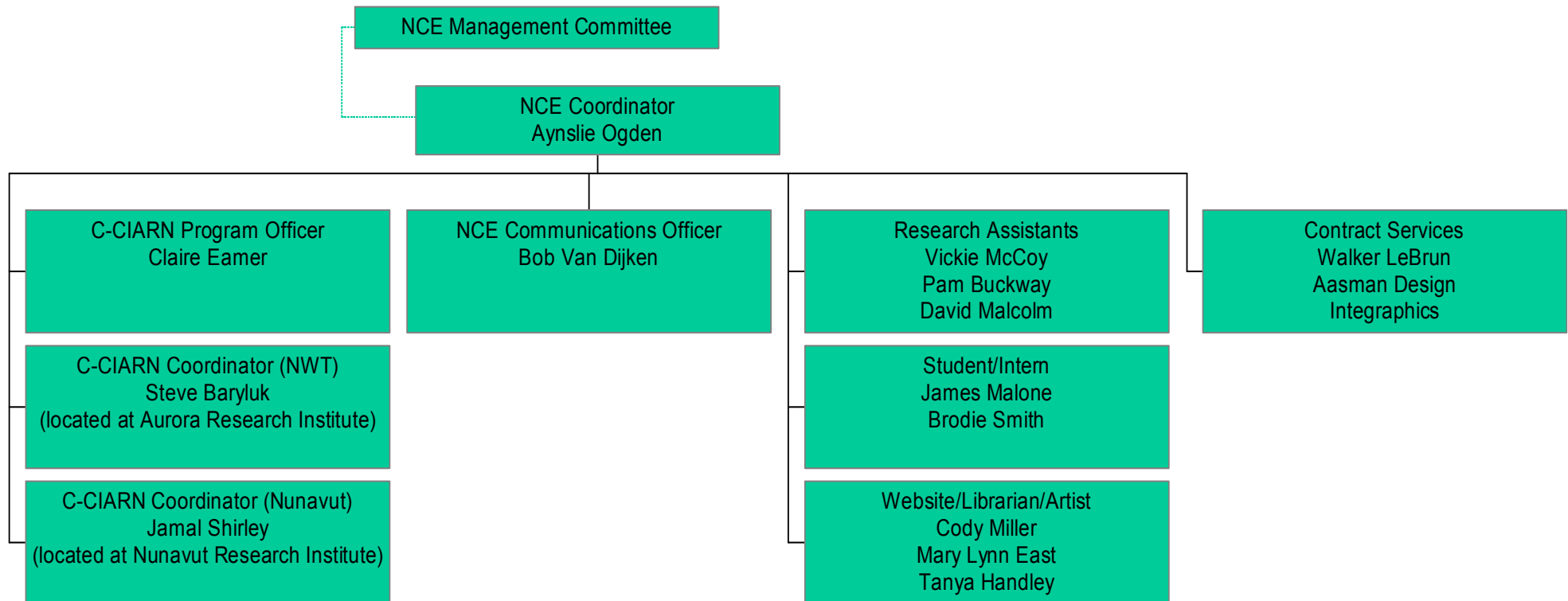
As the NCE Communications Officer, Bob Van Dijken is responsible for the outreach, communications and project management of the Yukon Hub of the National Climate Change Public Education and Outreach Hub Pilot Program (PEO Hub). The Hub acts as an information and coordination centre of climate change outreach activities.

With support from the NCE Coordinator, the NCE Communications Officer works towards enhancing awareness and encouraging action on climate change in the Yukon by: 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; 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.

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.

Bob has a Bachelor of Science in physical geography from McMaster University. For sixteen years he worked for the Atmospheric Environment Service of Environment Canada at various locations in the North as an upper air technician, weather observer and meteorological technician. He has been a Yukon resident for twenty years and during that time has been active with a number of organizations including the Yukon Conservation Society, Boreal Alternate Energy Centre and the Environmental Mining Council of British Columbia and Yukon. He has also worked as an environmental consultant for various organizations. Bob is currently a Director of the Northern Environmental Network and the Yukon Development Education Centre.

NCE Organization Chart





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 has a number of formal and informal advisory structures in place that have evolved to meet the changing needs and requirements of NCE programs and activities.

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 foster 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.

Advisory Structures

The NCE receives guidance from the NCE Management Committee, NCE Program Working Groups, and NCE Visioning Session, which is open to all interested parties. NCE staff also consults with a number of advisors on an informal, as-needed basis for technical support and strategic advice.

The advisory structure of the NCE has evolved to meet the changing needs and requirements of NCE programs and activities. The NCE formerly had a single Steering Committee that was chaired by the NCE Coordinator. 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 Working Groups 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 Working Groups and Stakeholders.

The NCE Coordinator is responsible for secretariat duties for the group, including preparing the agenda, all arrangements with respect to the meeting, and recording and distributing the minutes. Minutes of the Management Committee meetings between April 1 and September 30, 2002, are attached in Appendix A.

Program Working Groups

NCE Program Working Groups 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 Working Group may exist at a time, each with a different focus or project. Depending on the nature of the discussions, representation on these working groups 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. A C-CIARN Pan-Northern Advisory Group has also been established to provide assistance and advice to the C-CIARN North coordinating offices regarding coordination and facilitation of research, training, and information programs proposed and undertaken by C-CIARN North as a whole, and to promote cooperation and information sharing amongst the three offices.

NCE Advisors

NCE staff have frequently consulted with a number of advisors on an informal, as-needed basis for technical support and strategic advice. These Advisors have a special role to play in the organization. It was recognized that the role that these individuals play could be strengthened within the organizational structure, and the advisors could

be offered greater recognition for the importance of the support they provide to the NCE. This recognition led to NCE Advisor nominations at a June 2002 NCE Management Committee meeting.

NCE Advisors are a collection of individuals who bring unique knowledge and skills that complement the knowledge and skills of the NCE Management Committee and staff. NCE Advisors provide technical support and advice to the NCE Management Committee and NCE staff, and assist with identifying strategically important opportunities and partnerships for the NCE.

As these positions are voluntary and informal, every attempt is made to respect the time constraints of our Advisors. Advisors are not requested to attend regular meetings. However, in special circumstances, honoraria and travel expenses will be available to ensure the involvement of NCE Advisors at key meetings or events.

NCE 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 a regular forum for broader stakeholder involvement and input into the activities and direction of the NCE.

The next NCE Visioning Session is scheduled for June 2003. The focus of this session will be on the Yukon Public Education and Outreach Hub.



NCE SERVICES

The NCE and NCE programs provide a number of services to Yukoners. The marketing of these services will be an important part of our communications plan over the coming year.

Building Knowledge

- *Information Clearinghouse:* The NCE responds to individual and organizational requests for information, both by providing information from our own resources and by linking the client with other sources of information
- *NCE Library:* The NCE is developing a specialist library focusing on climate change impacts and adaptation. The library is fully catalogued and will soon be searchable on Yukia, the Yukon's central libraries website.
- *Speakers Bureau:* The NCE arranges speakers for public or organizational events, either from its own staff or from a roster of climate change experts.
- *Calendar of Events:* The NCE maintains a listing of events related to climate change and the North. Information about these events is made available in a variety of ways, including through an email newsletter, events pages on the NCE and C-CIARN North websites, and notification in the C-CIARN North newsgroup.
- *Publications:* The NCE produces a variety of publications, aimed at a variety of audiences, summarizing and disseminating climate change information. These include:
 - Weathering Change, the NCE newsletter
 - NCE Bulletins, a series of fact sheets
 - The NCE Gap Analysis Project, a summary report and CD containing the project's core reports
 - Reports of meetings and workshops
 - Periodic special NCE reports

Building Capacity

- *Expertise:* The NCE helps organizations find the expertise they need to deal with climate change issues.
- *Funding:* The NCE distributes information about funding sources and provides advice to those preparing proposals for climate change funding.
- *Technical Support:* The NCE provides technical support and advice on policies and programs to governments, funding agencies, boards, and other organizations.

Building a Climate Change Network

- *Public Presentations:* The NCE arranges public presentations, either by staff or by other speakers, with the goal of expanding personal contact among those interested in or engaged in work related to climate change.
- *Workshops, Meetings, Training Sessions:* The NCE organizes workshops, meetings, and training sessions to bring the climate change community together and facilitate the development of expertise and exchange of information.
- *Individual Contact:* The NCE maintains contact with a broad range of climate change researchers and stakeholders, and facilitates contact between individuals in that client list as well as continuing contact with the NCE itself.



NCE PROGRAMS

The NCE delivers two programs that are designed to help northerners understand and respond to climate change, the Canadian Climate Impacts and Adaptation Research Network (C-CIARN) and the Public Education and Outreach Hub Network (PEO Hubs). These programs were established through the National Climate Change Process to help Canada meet its international climate change commitments. These programs have offices across the country, and the NCE delivers these programs in the Yukon. These programs are providing critical support for ongoing research and information exchange at the NCE.

Yukon PEO Hub

The Yukon PEO Hub provides coordination and a focal point for regional climate change PEO activities. The primary focus of our Hub is to help Yukoners 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.

The Yukon PEO Hub has established a number of partnerships and is delivering several successful campaigns directed at various target audiences. In early 2003, towards the end of the pilot phase of the PEO Hub, we will be hosting a visioning session to assess the effectiveness of programs to date, and to conduct a needs assessment for future work. Quarterly reports for the Yukon PEO Hub, which describe activities of the Hub for this fiscal year, are available upon request.

C-CIARN North

C-CIARN North, administered by the NCE in partnership with the Aurora Research Institute and Nunavut Research Institute, has offices in Whitehorse, Inuvik and Iqaluit. The objectives of this program are to coordinate and facilitate climate change impacts and adaptation research, disseminate information and research results, build research capacity, maintain a database and website, provide training opportunities, promote stakeholder involvement, and provide continuity in the effort to develop scholarship and a shared understanding of present-day and future climate impacts, vulnerabilities, risks, and adaptation.

C-CIARN North has been requested to develop a list of stakeholder and policy issues and needs for impacts and adaptation research. We are currently initiating a dialogue with northerners and researchers to assess needs for climate change impacts and adaptation research and policy development in northern Canada. The process involves a survey to solicit community and researcher response, a set of online workshops to address pan-northern interests on a sectoral basis, and a literature review in all three territories. C-CIARN North plans to complete its first assessment of research needs by January 15, 2004. The needs assessment will be a living document, to be revised and updated as the body of research grows and our understanding of the impacts of climate change on northern Canada increases. An annual report for C-CIARN North, describing activities of the northern offices for this fiscal year, is available upon request.



NCE 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 currently underway at the NCE that are directed at reaching these goals.

Weathering Change

The NCE newsletter *Weathering Change* is devoted to disseminating information on climate change impacts and adaptation to managers, practitioners, policy makers, and academic audiences. *Weathering Change* summarizes the latest in research and technical information that is of relevance to northern communities and environments, with the objective of improving information exchange and increasing the visibility and understanding of climate change impacts and adaptation issues. Each issue focuses on a specific topic. NCE staff and contributors prepare newsletter articles. Contributors include researchers and stakeholders who are involved the issues that are discussed in each edition. The NCE has received some funding from the Government of Yukon Environmental Awareness Fund towards the production of this newsletter. Four issues of the newsletter were distributed last year to over 400 individuals and organizations on our mailing list.

NCE Website

The NCE website (www.taiga.net/nce) is an interactive, up-to-date site for climate change information relevant to Canada's North. Primarily maintained by the NCE web technician, with assistance from the Coordinator and Communications Officer, the site contains information on 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. Statistics indicate our website averages 700 hits/day.

IRISEN

Following a referral from NCE Advisor Stewart Cohen, of the Adaptation and Impacts Research Group, the NCE Coordinator was invited to lecture at the advanced study course *Integrated Regional Impact Studies in the European North*, held in Abisko, Sweden, from July 21 to August 3, 2002. Two papers were delivered, *Integration and Synthesis: Assessing Climate Change Impacts in Northern Canada* and *Stakeholder Involvement in Climate Change Assessment: Experiences from Northern Canada*, which will be published in the proceedings.

GEOG 290

The Northern Climate ExChange submitted to Yukon College a curriculum development proposal, which was approved by the NCE Management Committee, to develop a second year geography course on climate change called *Climate Change in the Circumpolar World*. The intent of this course is to examine the contemporary issue of climate change in the context of northern environments, and to canvass our understanding of climate change and responses to it. The course is proposed to be module-based. Modules will allow the course to be more flexible to the circumstances of the classroom, make the option available for the use of individual modules for training workshops, and make it easier to eventually develop this into an on-line course, which has the potential of linking into the University of the Arctic. The multidisciplinary approach to this course targets a broad audience: a Yukon College certificate or diploma student, a graduate of one of its programs, working professionals and policy makers and interested members of the public.

C-CIARN Online Workshops

C-CIARN North convened two online workshops in the first part of 2003, using the facilities of the Canadian Polar Commission's Internet service. The first workshop, Climate Change and Infrastructure, ran January 8-9. Sixty-seven people from Canada, the United States and Europe registered for the workshop, and more than 80 messages were posted over the two days. The second workshop, Climate Change and Resource Development, ran February 5-10 and attracted 61 participants. Full transcripts of both workshops have been posted on the C-CIARN North website, and summary reports are incorporated in the Spring issue of the NCE newsletter Weathering Change.

Presentation to Senate Standing Committee

In December 2002, the NCE Coordinator presented to the Senate Standing Committee on Forestry and Agriculture about the impact of climate change on northern Canada's agriculture, forest and rural communities and the potential adaptation options. This presentation raised awareness of impacts and adaptation issues in northern Canada and the need for enhanced funding for research and monitoring.

NCE Email Mailing List

The NCE email mailing list distributes regular updates to subscribers on the latest in climate change news, funding opportunities, events, reports, and projects relevant to northern Canada. Information distributed through the email network is northern-focused or of interest to northerners. Over 300 people subscribe to the email network. C-CIARN North also established a mailing list service. 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. This mailing list is administered through the Canadian Polar Commission's CPIN website.

Yukon Climate Change Research Database

C-CIARN Yukon reviewed Yukon research licences dating back to 1972 to identify past and current Yukon-based research related to climate change. Wherever possible, the researchers were contacted for updated information on projects and publications arising from the research. The resulting database will be updated annually, made available on the NCE and C-CIARN North websites, and used as the basis for a regularly published compendium of Yukon climate change research.

Scoping Session on Permafrost and Climate Change

In November 2002, C-CIARN Yukon took advantage of the presence at Yukon College of NSERC Northern Chair Christopher Burn to organize a half-day information session on the impacts of climate change on the permafrost regime and potential implications, particularly for infrastructure and resource development. Twenty-seven people participated, including resource and infrastructure managers from federal, First Nations, territorial, and municipal governments, as well as representatives of environmental and educational organizations.

Yukon Climate Change Research Brainstorming Session

C-CIARN Yukon convened a meeting in the fall of 2002 to exchange information about current climate change research and research needs in the Yukon. Fifteen people took part, including one researcher who participated by phone from Edmonton. Among the fifteen were academic and government researchers, members of several renewable resource councils, an elder, and representatives from other C-CIARN offices. Outcomes of the meeting included a preliminary agreement among federal and territorial government researchers and members of the Alsek Renewable Resource Council to pursue joint work in the Kluane region.

Matrix Maker Update

The Matrix Maker is the NCE's online tool for identifying climate change research strengths and gaps in sixteen different human and natural systems. It was created as part of the Gap Analysis Project, reflecting the status of northern climate change research up to that time (roughly 1999-2000). Since climate change research is a rapidly growing field, the NCE and C-CIARN North undertook a comprehensive review of the Matrix Maker assessments in 2002-2003. In some cases there has been significant change in the state of knowledge. In all cases, new information was added to the lists of references and provided for incorporation into the NCE's Infosources database.

Bulletins

The Northern Climate ExChange produced a series of eleven bulletins on northern climate change topics. The bulletins were produced in both paper and electronic forms and covered topics ranging from climate change science to the impacts of climate change on northern society and economy, northern ecosystems, and northern landscapes.

Community Tour

In conjunction with a number of Yukon groups, the Hub coordinator participated in a community tour to thirteen Yukon communities. In each community, a diabetes play was presented and a health fair was set up with various displays. The NCE display concentrated on the economic, environmental and health benefits of walking or riding rather than driving a vehicle. While in the communities, visits were made to First Nations, schools, renewable resource councils, nursing stations, town administrators and College community campuses to introduce NCE programs and provide climate change information packages.



NCE FINANCIAL REPORT

The Northern Climate ExChange received funding from four contribution agreements during the 2002-2003 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 financial summary is not an audited financial statement and is only an extraction from Yukon College financial records.

Table 1
NCE 2002-2003 Cash Revenues Summary

| Funding Source | Description | Amount |
|--|--|---------------------|
| 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 | \$155,000 |
| Government of Canada – Environment Canada - Climate Change Action Fund – Public Education and Outreach | Funding towards the activities of the Yukon PEO Hub Program | \$60,000 |
| Other Revenue (Building for the Future) | Travel Support (IRISEN, CCI) | \$4,226.35 |
| Other Revenue (PEO Hub) | Travel Support, Summit Revenue Surplus | \$21030.90 |
| Other Revenue (C-CIARN) | Travel Support (CFCAS, IISD, NRCAN, Senate of Canada) | \$14,544.66 |
| | | |
| Total Revenue | | \$379,801.91 |

Table 2
NCE 2002-2003 In-Kind Revenues Summary

| Funding Source | Description | Amount |
|--|--|--------------------|
| 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 |
| Arctic Borderlands Ecological Knowledge Cooperative | Internet server space (taiga.net) | \$350 |
| Aurora Research Institute | Office Space (photocopiers, fax, telephone, internet, postage, computer support) and Administrative Assistance to support C-CIARN North Coordinator in NWT | \$12,000 |
| Nunavut Research Institute | Administration, office space, salary shortfall, contract administration fee, office space, office supplies and communications, services of Snowchange student to support C-CIARN North Coordinator in NU | \$21,000 |
| Environment Canada, Canadian Wildlife Service (Whitehorse) | Advice and expertise, web support, specialized printing services | \$2,500 |
| Canadian Polar Commission | Online workshops and newsgroup | \$4,000 |
| Parks Canada | Presentation space, organization and advertising for C-CIARN North | \$350 |
| NSERC Northern Chair (Chris Burn) | Salary for summer student | \$2,000 |
| C-CIARN North Science Advisor Peter Johnson | Advice and expertise | \$5,000 |
| | | |
| Total In-Kind Revenue | | \$77,700.00 |

Note: This table does not include in-kind support provided to C-CIARN North in Northwest Territories and Nunavut by the Aurora Research Institute, Nunavut Research Institute and other organizations.

Table 3
2002-3 Building the Future Expenses Summary

| Project Costs | Total Cost | Funding Source | | |
|------------------------------|-------------|----------------|-------------|------------|
| | | CCAF | YTG | Other |
| NCE Coordinator Salary | \$50,505.84 | 50,000 | 505.84 | |
| NCE Coordinator Vacation Pay | \$7,882.24 | | \$7,882.24 | |
| NCE Coordinator Yukon Bonus | \$2,750.00 | | \$2,750.00 | |
| NCE Coordinator Benefits | \$8,077.53 | | \$8,077.53 | |
| Telephone/Fax | \$688.21 | | \$688.21 | |
| Contract Expense | \$3,400.00 | | \$3,400.00 | |
| Employee Travel | \$5,325.92 | | \$1,099.57 | \$4,226.35 |
| Office/Admin Supplies | \$195.38 | | \$195.38 | |
| Internal Printing Services | \$517.56 | | \$517.56 | |
| | | | | |
| Total | \$79,342.68 | \$50,000.00 | \$25,116.33 | \$4,226.35 |

Table 4
2002-3 Yukon PEO Hub Expenses Summary

| Project Costs | Total Cost | Funding Source | |
|------------------------------|---------------------|-----------------------|-----------------------------|
| | | CCAF | Cash (YTG/Other) |
| Salaries | \$54,978.79 | \$37,500 | \$17,478.79 |
| Develop & Deliver Activities | \$22,866.20 | \$14,168.34 | \$8,697.86 |
| Travel | \$4,045.27 | \$2,502.65 | \$1,542.62 |
| Administration | \$385.44 | | \$385.44 |
| Promotion | \$8,719.04 | \$5,500 | \$3,219.04 |
| Production of Materials | \$14,707.15 | | \$14,707.15 |
| Total | \$105,701.89 | \$59,670.99 | \$46,030.9 |

Table 5
2002-3 C-CIARN North Expenses Summary

| Project Costs | Project Details | Total Cost | CCAF | YTG/ Other |
|-----------------------------------|---|---------------------|---------------------|--------------------|
| Salaries | Salary and benefits –Coordinator (YT – Claire Eamer) | \$54,531.73 | \$54,531.73 | |
| | Salary and benefits - Coordinator (NWT – Steve Baryluk) | \$27,975.42 | \$27,975.42 | |
| | Salary and benefits – Coordinator (NU – Jamal Shirley) | \$23,295.04 | \$23,295.04 | |
| | Casual/Contract Employees – Database Update, Reporting, Report Template (YT) | \$17,914.55 | \$5,774.55 | \$12,140.00 |
| | Contract Services – Workshop Coordination (NWT) | \$4,926.00 | \$4,926.00 | |
| | Contract Services - Research Assistance (NU) | \$4,016.64 | \$4,016.64 | |
| | Honorarium (YT) | \$150.00 | | \$150.00 |
| Node Networking | Travel for Coordinator, Manager, Workshop Registration Fees, Brainstorming Session, Permafrost Session (YT) | \$19,672.20 | \$4,467.54 | \$15,204.66 |
| | Travel to workshops for C-CIARN Members (YT) | \$4,059.00 | | \$4,059.00 |
| | Travel for Coordinator (NWT) | \$7,415.43 | \$7,415.43 | |
| | Travel for Coordinator (NU) | \$9,051.32 | \$9,051.32 | |
| Computer Support | Computer – Hardware and Software (YT) | \$2,879.52 | | \$2,879.52 |
| | Computer – Hardware and Software (NWT) | \$45.00 | \$45.00 | |
| Materials, Supplies and Equipment | Materials, Journals, Books, Office Materials, Supplies (YT) | \$2,948.14 | \$1,030.33 | \$1,917.81 |
| | Office Supplies (NWT) | \$390.28 | \$390.28 | |
| | Office Supplies (NU) | \$35.00 | \$35.00 | |
| Communications | Promotional Materials, Report Printing (YT) | \$8,938.09 | \$5,744.48 | \$3,193.61 |
| | Printing – Surveys and Reports – (NU) | \$990.00 | \$990.00 | |
| Administration | Yukon College (see Table 2) | \$80.73 | \$80.73 | |
| | ARI (see Table 2) | \$4,091.00 | \$4,091.00 | |
| | NRI (see Table 2) | | | |
| | Long Distance, Courier, Postage (YT) | \$369.66 | \$369.66 | |
| | Long Distance, Courier, Postage (NWT) | \$678.26 | \$678.26 | |
| Total | | \$194,453.01 | \$154,908.41 | \$39,544.60 |