
Foreword

The Nunavut Research Institute was created in 1995 when the Science Institute of the NWT was divided into eastern and western operations. In the Eastern Arctic, the re-named institute was amalgamated with Nunavut Arctic College.

The Nunavut Research Institute focuses on supporting scientific research and technology development across a broad spectrum of issues and concerns. The Institute's interpretation of research is broad – incorporating Inuit Qaujimanituqangit, social sciences, and natural sciences. The following mission statement guides the activities and services provided by the Institute:

The mission of the Nunavut Research Institute is to provide leadership in developing, facilitating and promoting Inuit Qaujimanituqangit, science, research and technology as a resource for the well-being of people in Nunavut.

Institute services are guided by the core values of Nunavut Arctic College - strong communities, cultural appropriateness, partnerships, quality, access, responsiveness and life-long learning. The Nunavut Research Institute places emphasis on brokering northern-based research which is linked to community needs, and making greater use of Inuit Qaujimanituqangit in research projects.

This Compendium of Research has been produced as part of the Institute's effort to communicate information about research projects which have recently taken place in Nunavut under the authority of the Nunavut Scientists Act.

FOR MORE INFORMATION

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Project Title: **The impact of toxaphene contamination on parasite susceptibility on Arctic char (Salvelinus alpinus)**

Summary: The objective of my project is to examine the effect of an environmental pollutant, toxaphene, on parasite infection in Arctic charr (*Salvelinus alpinus*). My purpose in travelling to Igloolik would be to sample arctic charr infected by the larval tapeworm *Diphyllobothrium dendriticum*: from previous work near Igloolik we have identified several lakes containing infected charr. These parasites will be extracted from the fish and shipped to Montreal, where they will be used to determine whether toxaphene decreases the ability of fish to withstand this parasite infections.

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Project Title: **Baseline Study for the Prenatal Nutrition Program**

Summary: 1) To collect information on prenatal risk factors and pregnancy outcomes in communities that do not have a Canada Prenatal Program (CPNP) project started or well-established, or a similar prenatal nutrition-type project in their community. The information gathered in the Baseline Study will act as a baseline for comparison when evaluating the ability of CPNP projects to improve the health of pregnant women and their babies. 2) To determine rates of healthy vs. unhealthy pregnancy outcomes among women who are eligible for CPNP programs but have not had access to them. 3) To collect information on how rates of healthy or unhealthy pregnancy outcomes vary among women eligible for CPNP programs as a function of prenatal risk (that is the risk of having an unhealthy baby)

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Location/Region: Kivalliq
Project Title: **Baseline Study of Contaminants in the Baker Lake Area**

Summary: Objectives of research projects: 1) To determine levels of organochlorines, metals (e.g. mercury) and radionuclides in traditional foods, water and air; 2) submit results to CINE, McGill University, for assessment of potential health risks of the food and water; and 3) to communicate the results of the study to the community and provide a forum for discussion on contaminants issues and concerns.

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Location/Region: Nunavut
Project Title: **Assessment of Dietary Benefit: Risk in Inuit Communities**

Summary: Objectives include: to derive quantitative estimates of traditional and market food intake among Inuit in five regions (Inuvialuit, Kitikmeot, Kivalliq, Baffin and Labrador); to complete databases of nutrient and contaminant contents of traditional food as prepared and consumed; to define benefits and traditional food in terms of nutritional, socioeconomic, and cultural significance; and to define the levels of dietary exposure to contaminants (heavy metals and organochlorines).

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Location/Region: South Baffin
Project Title: **Exploring Project Needs in the Health and Social Services System in Nunavut**

Summary: Having the intention of using a collaborative approach to social planning, this research project is of an exploratory nature with the purpose of identifying project needs in the health and social services area in Nunavut

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Location/Region: North Baffin
Project Title: **Flowering Plants of the Canadian Arctic Archipelago**

Summary: Previous work in the Canadian Arctic Archipelago (1985-1994) concentrated on understanding the grasses. The work was published in 1996 (Aiken et al. 1996) Grasses of the Canadian Arctic Archipelago: a DELTA database for interactive identification and illustrated information retrieval. Canadian Journal of Botany 74: 1812-1824). Since then the work has concentrated on the family of the purple Saxifrage and that work has been published as a database available on the Internet at www.biodiversity.uno.edu. It was demonstrated to the staff at Nunavut Research Institute in August 1997. Our project calls for moving onto other families and collecting data in the same database format with the long term goal being to produce an interactive, illustrated identification guide to the flowering plants that occur in the Arctic.

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Location/Region: North Baffin
Project Title: **Quaternary Environmental Change in the Canadian High Arctic**

Summary: Earth scientists have invested considerable time and energy in the development of models of global environmental change. Testing and validation of the various scenarios generated by these models requires an understanding of past environments. In order to assess the significance of current environmental change, earth scientists must develop a long-term perspective. The Quaternary period represents a time in earth history characterized by a rapid environmental change. This proxy record, preserved in fossil biota and the physical and geochemical composition of Quaternary sediments, offers earth scientists a natural laboratory in which to study the nature and rate of environmental change. Many areas of Canada remain "terra incognita", notably the high Arctic. The objective of this research program is to produce an integrated picture of Late Quaternary environmental change in the Canadian High Arctic through the combined study of glacial, marine and lacustrine sediments and their associated macrofossil assemblages.

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Location/Region: North Baffin
Project Title: **Mercury and Lead: Cycling processes and pathways in the Arctic.**

Summary: The two-year project is designed to study the levels of mercury (and lead, cadmium and other metals) in natural materials, and determine the emissions of mercury to the atmosphere from natural sources in the Arctic. This project will provide data to help evaluate the relative influence of long range transport of metals on the Arctic ecosystem. Year 1 - (1998) will focus on reconnaissance sampling of rock, till, stream sediments and plant material from a variety of sites, focusing on areas of black shale, a rock type known for high contents of mercury and other heavy metals. This work will aid in selection of appropriate sites for Year 2 (1999). Year 2 - will focus on making detailed flux measurements of the exchange of mercury at the air-soil boundary in representative geological settings (including a low background sites, and sites naturally anomalous in metals), to determine the rates of emissions and deposition of mercury.

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Location/Region: Keewatin
Project Title: **Baseline Environmental Studies - Meadowbank Gold Project**

Summary: The field program for 1998 builds on results of the 1997 survey. In 1998 we propose to survey up to five small lakes with the aim of identifying at least two lakes that have similar ecological characteristics of the lakes studied in 1997 (Second Portage and Third Portage Lakes) These lakes are located approximately 70 km north of the community of Baker Lake, NWT. Since 1995, Cumberland Resources Ltd., Vancouver, has been conducting exploratory drilling for gold. These studies are being conducted to gain an understanding of the water chemistry, species composition and distribution of invertebrates (plankton living in the water column and on the lake bottom), fish in each of the lakes and fish movement between lakes. This information is required to describe the existing environment prior to any mine development.

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Location/Region: North Baffin
Project Title: **Fossil Plants of Ellesmere and Melville Islands**

Summary: As part of an ongoing study of the Tertiary vegetation and climate of the Arctic Archipelago, we will explore exposures of Paleocene-Eocene rocks on the eastern coast of Ellesmere Island. These outliers were associated with the rifting of Greenland from North America, and have never been systematically explored paleobotanically. Most information on early Tertiary floras comes from the Sverdrup Basin to the west, so that data from eastern Ellesmere will expand our understanding of regional vegetation, and may represent quite different vegetation types. Research on Melville Island will extend our study of early forest vegetation of the late Devonian begun on southern Ellesmere Island. We hope to be able to extend our work across the critical Frasnian/Famennian boundary, one of the "big five" extinction events. It is unknown if there is a correlation between marine extinctions and events in the history of early land vegetation. Melville Island is perhaps the only place on Earth where this interval may be preserved in a non-marine setting.

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Location/Region: North Baffin
Project Title: **High resolution lake sediment studies in the High Arctic - for paleoclimate reconstruction**

Summary: We propose a program of field-based research, and laboratory studies to extend our currently limited understanding of arctic paleoclimate over the last few Millennia, using varied (annually laminated) sediments from lakes in the Canadian High Arctic. Our objective is to produce several high resolution (annually resolved) records along a transect from ~83 degrees N to ~76 degrees North, through central and southern Ellesmere Island. We expect that this work will help to place the very short instrumental records of climate that are currently available in the longer term perspective. We will monitor processes leading to sediment deposition in the lakes (meteorological, hydrological, limnological conditions). Our results will be compared with ice core records from the region.

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Location/Region: North Baffin
Project Title: **Marine Specimen Collection for Educational Purposes; Clam Harvest for Consumption within Nunavut**

Summary: To collect the following types of marine life for display and education as well as research: Sea Anemones (Urticina); Soft Coral (Gersemia); Echinoderms (Urchins, Sea Stars, Sea Cucumbers); Shrimp (Pandailids), Amphipoda, fishes (Arctic cod, Liparids, Cottids, Pholids). No more than 10 kilogram/species will be taken. Also, we hope to continue to harvest clams: 1000 kilograms of *Mya truncata* and *Sempis groenlandicus* combined. The method of collection for all species is Scuba diving.

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Location/Region: Keewatin
Project Title: **Environmental baseline studies on vegetation and habitat for WMC International Ltd. Meliadine West Gold Project**

Summary: To conduct baseline studies on vegetation and habitat in areas identified by WMC as local and regional study areas related to the development of this gold project. Objectives: 1) Identify majority of species of land vegetation represented in the area. 2) To determine presence of any plant species considered "rare" or "endangered" on the site(s). 3) To identify and describe the main vegetation associations in the area. 4) To combine vegetation and wildlife use information into "habitat units" which can then be used to produce a map of habitats on the area.

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Location/Region: North Baffin
Project Title: **Habitat, behavior and age structure of bowhead whales in the Nunavut Settlement Area**

Summary: This project consists of two components. One component studied the distribution of bowheads in relation to behavior and habitat variables in northern Foxe Basin. These whales represent a large component of the putative Hudson Bay stock and could be vulnerable to disturbance because they aggregate consistently in a well-defined area. Aerial photogrammetry is being done in the same area to determine whether this stock shows age segregation.

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Location/Region: Keewatin
Project Title: **Bowhead Stock Identification**

Summary: Two stocks of bowheads are thought to occur in the Nunavut Settlement Area. Hudson Bay/Foxe Basin and Davis Strait/Baffin Bay. The research is designed to test this hypothesis by examining mitochondrial and nuclear DNA of skin samples collected from bowheads in Foxe Basin, Repulse Bay, Cumberland Sound and Eclipse Sound.

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Location/Region: North Baffin
Project Title: **Marine Bio-optics: Remote Sensing of Ocean Color in the High Arctic**

Summary: Our goal is to develop and validate relationships between phytoplankton abundance and small differences in ocean color for rapid, remote survey of phytoplankton primary productivity from space.

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Number in party: 4
Location/Region: North Baffin
Project Title: **Radionuclides in Marine Foodwebs**

Summary: To determine the concentrations and types of radionuclides in marine organisms consumed by people to assess potential accumulation and health risks, if any. We will assay tissue samples from marine mammals (beluga, walrus, narwhal, ringed and bearded seals), fish and shellfish (cod, char and clams).

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Location/Region: North Baffin
Project Title: **Contaminant Fate, Transport, and Degradation in Arctic Lakes**

Summary: The long term objective is to improve knowledge of fate and pathways of chemical contaminants in Arctic watersheds and response of contaminant concentrations to loading changes. Objectives for the coming field season are as follows: 1) To investigate the role of nutrients, temperature, substrate, and sediments in the degradation of a-hexachlorocyclohexane (HCH) in Arctic watersheds. 2) To determine the fraction of loadings that are retained in sediments of Arctic lakes. 3) To obtain contaminant data to validate developed models as they are extended to other Arctic systems.

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Project Title: **The International North Water Polynya Study (NOW)**

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Number in party: 25
Location/Region: Kitikmeot
Project Title: **Arctic Field Ecology Course EEB 5842 University of Minnesota**

Summary: Our objectives are to examine the ecology and natural history of the Mara and Burnside Rivers as part of a four week college course - Arctic Field Ecology (University of Minnesota EEB 5842). We examine plant communities, soils, and landforms, and record bird and mammal observations as we camp and travel along the rivers. Two research objectives of the course are 1) to document some of the plant communities and associated souls and soil insects along the river, and 2) to assess the accuracy of a satellite-derived vegetation map recently made of this area.

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Number in party: 1
Location/Region: Nunavut
Project Title: **Phase I, II, and III Environmental site assessments, bulk fuel storage facilities and pipeline distribution system.**

Summary: The environmental site assessments and audits will be conducted to establish the current environmental conditions and liabilities identify areas of non-compliance establish priorities for remediation work and develop a capital plan/budget to complete and required remedial work.

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Number in party: 4
Location/Region: North Baffin
Project Title: **Environmental Site Investigation, Resolute Bay Airport**

Summary: The purpose of the site investigation is to determine the extent and nature of subsurface contamination and /or identify any evidence of environmental impairment related to the airport site.

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Number in party: 4
Location/Region: North Baffin
Project Title: **Arctic Ocean Climate Change**

Summary: The objective of the proposed work is to quantify the heat and salt movement between the Arctic Ocean and the Northwest Atlantic so that the coupling between these two water bodies is better understood. Measurements over a three year period combined with modeling studies, will be used to determine how this coupling affect the local regional and global climatic systems. The data collected will also provide a baseline for further studies. Quantified change in the fresh water outflow through Barrow Strait would be a useful global warming indicator.

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Number in party: 2
Location/Region: Kitikmeot
Project Title: **Oral History Project of Arvilikjuaq**

Summary: To share the project with the community also with the Kugaardjuk School. Also use it for learning experience for others. Including getting ideas from the elders on how they survived and suffered in their past.

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Number in party: 2
Location/Region: North Baffin
Project Title: **Inuit Navigation: Traditions and Contemporary Challenges**

Summary: To describe and interpret Inuit methods of navigation and orientation as a complex system of knowledge, whose transmission involves various social and cultural practices. To study how changes in Inuit life ways (especially permanent settlements and school system) has affected the teaching/learning process of this knowledge. To observe how the use of a new technological device (Global Positioning System) is transforming/supplementing traditional methods of navigation.

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Number in party: 2
Location/Region: North Baffin
Project Title: **The ecological relationship between Pond Inlet Inuit and narwhal (Monodon monoceros)**

Summary: The principal objective is to investigate the cultural and ecological relationship between Pond Inlet Inuit and narwhals (Monodon monoceros). This has been accomplished in part by observing Pond Inlet Inuit foraging for narwhals and sharing of narwhal resources in the past two field seasons. This project will continue to observe the organization of Pond Inlet Inuit subsistence, but also place more emphasis on understanding alternate variables that influence narwhal hunting decision such as family and subsistence needs, and access to appropriate resources. A secondary objective is to continue to establish the relative importance of narwhals to the community not only in terms of diet products but also in terms of its role as a traditional hunting activity.

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Number in party: 3
Location/Region: North Baffin
Project Title: **Genetic Diversity in the Biota of Arctic Lakes**

Summary: My laboratory is involved in studies to characterize the levels and patterns of genetic diversity in arctic organisms. Our work focuses on freshwater organisms especially zooplankton, and involves the use of both allozyme and DNA analyses to investigate levels of genetic diversity. Our work aims to extend understanding of taxonomic diversity and the biogeographic patterns of a range of aquatic invertebrates.

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Number in party: 22
Location/Region: North Baffin
Project Title: **High Arctic Ecology**

Summary: The University of Guelph runs the only ecology course offered in the high arctic. The course examines biological diversity in freshwater, marine and terrestrial environments and runs for a 2 week period. During this interval, students engage in both individual and group projects. During the summer of 1998 the course will be based at both the PCSP facilities in Resolute and at the Devon Island Research Station.

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Number in party: 2
Location/Region: Keewatin
Project Title: **Quaternary Geology - MacQuoid Lake - Gibson Lake Area**

Summary: The main objective is to examine the Quaternary geology in the area extending from 90 - 100 degrees West longitude and 62-64 degrees North latitude. The focus this summer will be to investigate in 55 M and 55N. Detailed surficial geological mapping and till geochemical sampling will be undertaken in areas of geological significance and mineral potential. In addition regional ice flow indicator mapping will be undertaken as a framework for drift prospecting in the area.

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Number in party: 9
Location/Region: North Baffin
Project Title: **Causes and consequences of biodiversity change in arctic tundra**

Summary: 1) To continue the long-term studies of effects of climate change scenarios on high arctic tundra systems; and 2) To continue new research to determine causes and consequences of biodiversity change in arctic tundra. The first phase of the research will concentrate on the causes of biodiversity change, including impacts of global climate change (related to Objective 1), increased nutrient availability, and effects of grazing animals.

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Number in party: 2
Location/Region: Keewatin
Project Title: **Geological Evolution of the Yathkyed Lake Area**

Summary: To carry out 1:50000 scale bedrock mapping and to sample rocks in order to evaluate their potential for hosting base and precious metal deposits. Analysis of the chemical (major element, whole rock, and isotopes) characteristics of the rocks, and dating of samples will be undertaken in order to determine the geophysical evolution of the area

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Number in party: 3
Location/Region: Keewatin
Project Title: **Western Churchill NATMAP Project: Deep Structure of the Lithosphere from Magnetotelluric Studies**

Summary: Regional magnetotelluric studies provide an effective means of obtaining information about the Earth's lithosphere (rigid outer shell of the Earth which extends to greater than 150 km depth) in remote areas. The MT results will map the lateral and vertical variation in the electrical conductivity of the lithosphere, particularly the base of the lithosphere and its contact with the weak asthenosphere layer on which the plates of the Earth ride. These measurements, when combined with the collocated teleseismic ones, will 1) determine the geophysical characteristics of the lithospheric mantle (to depths of 150 km or greater) beneath the Western Churchill province to help constrain the age and thickness of the mantle root underlying the craton and 2) test for the existence of a postulated NW-SE trending mantle boundary transecting the Churchill Province. Two different mantle blocks should have observably different electromagnetic resonances on the Earth's surface.

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Number in party: 2
Location/Region: Kitikmeot
Project Title: **Magnetotelluric studies along the Lupin Mine winter road**

Summary: To investigate the structure and composition of the Earth's crust and upper mantle along Echo Bay's winter road from east of Yellowknife to the Lupin mine at Contwoyto Lake, possibly extending to the Jericho property. The work should define the base of the Slave craton, which is the oldest of the Earth's fundamental crustal building blocks, and lies north of Yellowknife. This study is an important component of the national LITHOPROBE Program which is aimed at understanding the tectonic evolution of the North American continent. Such better understanding will lead, for example, to improved mineral exploration strategies, improved estimates of the effects of large earthquakes, and a superior framework for handling Canada's natural resource potential over the next decade.

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Number in party: 3
Location/Region: Kitikmeot
Project Title: **Deep Electromagnetic Studies of the Oldest Archean Craton: a contribution to the Lithoprobe SNORCLE transect**

Summary: Image the regional-scale electrical conductivity structure of the crust and mantle beneath the Slave craton to determine (a) the lateral variation of the cratonic mantle root, (b) whether the conductivity is, anisotropic, (C) the presence of a conducting lower crust, and, (d) the presence of an asthenospheric zone in the mantle. Answers to these questions will enable us to address the questions of whether (a) the root is Archaean in age or is more likely caused by Proterozoic processes, (b) how the root grew in time., and (C) whether the root is original, or has been modified with time. The geometry of the base of the root may also guide exploration activities for diamondiferous kimberlites.

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Number in party: 5
Location/Region: Kitikmeot
Project Title: **Geochemical and Isotopic Constraints on Mesoproterozoic Ocean Chemistry**

Summary: The Mesoproterozoic Eon (1600-1000 Ma) represents a critical period in Earth history from the standpoint of global tectonic reorganization, biological evolution, and the rise in oxygen in the Earth's early atmosphere. Yet despite this obvious significance, the Mesoproterozoic remains one of the most poorly understood and poorly documented intervals in Earth history. Recently, a global record of marine carbon isotopic compositions has been compiled that suggests a fundamental change in biogeochemical cycling during this interval. The timing of this observed transition in marine carbon isotopic compositions is particularly intriguing in that it occurs in conjunction with known tectonic activity and a purported rise in the concentration of atmospheric oxygen. The goal of the proposed research is to generate C-Sr-S isotopic data for this interval and thereby, begin to address the mechanisms behind geochemical changes in the Mesoproterozoic ocean. By integrating several different isotopic systems we can address specific questions, including the causes and consequences of biogeochemical change in the early biosphere.

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Location/Region: South Baffin
Project Title: **Late Quaternary glacial history of Northern Cumberland Peninsula, Baffin Island**

Summary: The overall objective of the recent INSTAAR glacial geology effort on southeast Baffin Island has been to define our understanding of glacial dynamics and environmental change during the last glacial period 25,000 to 7,000 years ago. The main objective of this field program is to provide data on the past activity of glaciers on northeastern Cumberland Peninsula and associated environmental changes. The results will be compared with that in other areas our research group is working in such as Cumberland Sound and Merchant's Bay (Dr. Gifford Miller), in order to provide a more regional glacial history of Cumberland Peninsula.

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Number in party: 1
Location/Region: Kitikmeot
Project Title: **Bioaccumulation of Organic Chemicals in the Lichen-Caribou-Wolf Food Chain of the Northwest Territories.**

Summary: 1) Develop a dietary bioaccumulation model that translates atmospheric concentrations of organic chemicals to internal concentrations in lichen, caribou, wolf, and human tissues; 2) test the predictive reliability of the model against existing data; 3) provide pertinent information to aid in the development of contaminant guidelines for terrestrial wildlife in Canada's north 4) provide a validated methodology for exposure assessment of polychlorinated biphenyls (PCB's) and other persistent organic pollutants in arctic communities of the Northwest Territories.

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Number in party: 4
Location/Region: North Baffin
Project Title: **Role of Sound in Ringed Seal Navigation and Disturbance**

Summary: This study will investigate the behavioral responses of ringed seals to noise disturbances, the role of sound in ringed seal navigation and the ice foraging behavior of ringed seals.

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Number in party: 10
Location/Region: North Baffin
Project Title: **Ice Core Analysis, Glacier Mass Balance, and Atmospheric Pollution**

Summary: To measure the mass balance of 4 ice caps (amount of snowfall, amount of summer melt) to determine if the winter and summer climate are changing and if the glaciers are getting bigger or smaller. To collect snow samples from 5 ice caps to investigate the pattern of industrial and natural pollution - how it varies from place to place and from year to year. If funding is sufficient, to develop a program with the community of Grise Fiord (primarily the school) to improve communication between the community and the scientist.

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Number in party: 1
Location/Region: North Baffin
Project Title: **Holocene hydroclimatic conditions and neoglacial history near the northwest margin of the Devon Ice Cap, Devon Island, NT**

Summary: This research is designed to provide a long record of past climatic conditions from eastern Devon Island to compare with a new ice core from the Devon Ice Cap. Lake sediments that contain yearly structures will be used to measure past summer runoff in the Bear Lake catchment for approximately the last five thousand years. We will analyse the sediments to determine how sediment accumulation is related to summer weather conditions and melting on the ice cap. We will also study sediments in ten small ponds between Bear Lake and the ice cap to determine the record of ice advance and retreat, as well as what influence these ice movements have had on sedimentation in Bear Lake. This record will be the first of its kind in the region and will provide a indication of how climate has changed at lower elevations, compared to the high elevation ice core record. Long climate records from lake sediments are important indicators of how climate naturally varies and should help identify what major processes cause climate change in the Arctic.

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Number in party:
Location/Region: North Baffin
Project Title: **Holocene environmental changes in the western High Arctic recorded in varied marine and lacustrine sediments**

Summary: The research is designed to develop the first detailed record of changing summer rainfall in the High Arctic during the past several thousand years. Sediments will be collected from several marine and lake basins near the Isachsen weather station to document annual sediment accumulation and identify deposits related to individual rainfall events. The site was chosen due to the likelihood of obtainable varied sediments and the close proximity of a long weather record. The latter is especially important for comparing deposition events in the sediments with actual rainfall recorded in the immediate vicinity, because rainfall is frequently localized. To ensure that what is recognized in the sediments was actually caused by rainfall events it is important to be close to the station that recorded the rain. The sediment will be studied in detail and the record of fossil remains will be investigated to reconstruct past run off.

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Number in party: 25
Location/Region: North Baffin
Project Title: **Haughton-Mars 98 (HM-98): Study of the Haughton Impact Structure, Devon Island Northeast Territories, as a Mars analog**

Summary: Haughton-Mars 98 (HM-98) is the second season of a field study of the Haughton impact crater Devon Island, as a Mars analog. The polar setting and specific geology of the crater make it exceptionally well-suited for Mars-related geological and exobiological studies. Investigations begun in 1997 will be continued in 1998. Proposed studies will focus in the "fluvial", peri-glacial, paleolacustrine, "regolithic", biological, and impact features and processes found at the crater and its surroundings. In addition to offering valuable insight into Mars's evolutionary history, this study will further the geologic characterization of Haughton itself and contribute uniquely to Martian exobiological research. Technologies currently under development for the exploration of planetary surfaces and subsurface will also be tested at the crater. It is hoped that HM-98 will lead to further studies of the Haughton site in preparation for the future robotic and human exploration of Mars.

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Number in party: 5
Location/Region: Kitikmeot
Project Title: **Wenlock and Ludlow graptolite and radiolarian taxonomy, biostatigraphy, evolution, paleoecology and depositional environments, Canadian Arctic Islands**

Summary: Graptolite and radiolarian are very common and abundant fossils in the rocks of the Cape Phillips Formation throughout the central Islands. Studies of the graptolites (by A. Lenz) have gone on for a number of years, and will continue. The purpose of the ongoing studies is to understand graptolite taxonomic composition and biostratigraphic distribution, with the view toward making comparison and chronostratigraphic correlation with same-age graptolites elsewhere in the world. Further goals, using the beautifully preserved uncompressed and isolated graptolites present in some of the rocks, is to understand the evolutionary development of the graptolites and, using geochemical methods, to try to understand their environmental settings. The other common fossil, the radiolarians, are less well studied, by a potentially very important biostratigraphic tools, and their taxonomy and biostratigraphic distribution will be focussed on (by P. Noble). A further goal of the project is to intergrate graptolite and radiolarian biostratigraphy, and thus permit high resolution biostratigraphy and, therefore, a more detailed understanding of geological history of the Arctic.

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Location/Region: North Baffin
Project Title: **"Fusion of Radarsat and optical remote-sensing imagery for lithological discrimination in arctic environment."**

Summary: Launching of the two technically most sophisticated satellites: Radarsat for microwave remote sensing and ASTER (to be launched in 1998) for sophisticated optical and infrared remote sensing, offers us an unprecedented opportunity to develop advanced geological remote sensing techniques for arctic environments. The main objectives of this research include 1) detailed mapping of the surficial geological features of the study area (Melville Island) and subsequent preparation of a comprehensive data base, and 2) development of geological data fusion techniques for both microwave and optical remote sensing data. The 1998 field season on Melville Island will focus on detailed field mapping on eastern Sabine Peninsula and the western shore of Weatherall Bay. Results of this research will provide us with leading edge geological remote sensing techniques and allow us to provide superior remote sensing solutions for environmental and resource studies.

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Number in party: 8
Location/Region: North Baffin
Project Title: **Geology of northeast Ellesmere Island between Hayes Fiord and Lady Franklin Bay**

Summary: The geology of northeastern Ellesmere Island along Nares Strait is poorly known at present. The area has been mapped only partially and cursory since 1970. The proposed project will result in details, up-to-date descriptions of the rocks and geological structures in the area and in a number of new or revised geological maps. Economic benefits may result from possible discovery of lead-zinc ore (major showing is known on northern Judge Daly Promintory) and from better understanding of the hydrocarbon potential of off-shore rocks in Kane Basin. Rocks similar to those off-shore are apparently present onshore.

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Number in party: 4
Location/Region: Keewatin
Project Title: **Surficial Mapping Studies in Keewatin**

Summary: This project is part of the Western Churchill NATMAP Program initiated by the Geological Survey of Canada. The main objectives are to undertake surficial geology mapping over selected greenstone belts to enhance our knowledge of the history and composition of surficial deposits, and to develop drift prospecting methods as an aid for mineral exploration. The major products will be ice flow indicator maps at 1:250,000 scale and detailed surficial geology maps at 1:50,000 scale.

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Location/Region: North Baffin
Project Title: **Integrated study of the Late Ordovician-Early Silurian biostratigraphy, geochemistry and bioevents, Cape Phillips Formation, Central Canadian Arctic Islands.**

Summary: This project is an integrated study of the stratigraphy, biostratigraphy and geochemistry of the lower Cape Phillips Formation on Cornwallis Island. There are five specific projections: 1) the Late Ordovician and Late Llandovery (Early Silurian) graptolites and extinction events; 2) the morphology, systematics and evolution of Late Ordovician and Early Silurian radiolaria; and 3) Silurian conodont biostratigraphy; 4) Late Ordovician and Early Silurian chitinozoan and acritarch biostratigraphy and 5) Late Ordovician and Early Silurian sedimentology and chemostratigraphy. The quality of preservation of these sections and their fossils is unparalleled worldwide, providing the opportunity to integrate these projects into a comprehensive study of the regional and global environmental biotic changes through the Late Ordovician and Early Silurian.

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Number in party: 11
Location/Region: Kitikmeot
Project Title: **Hope Bay Belt Project - Environmental Baseline Study**

Summary: To continue the work begun in 1993 to generate a full bio-physical database which in combination with socio-economic, heritage and cultural information being collected concurrently in the region will support all applications for water licences and land use permits for mineral exploration, bulk sampling and environmental impact assessment for possible mine development activities. It is intended that the quantitative information being collected will be the reference database for any long term monitoring programs which may need to be established.

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Location/Region: Kewatin
Project Title: **Environmental baseline studies of the aquatic resources and habitat in the Meliadine Lake Project Area, Nunavut**

Summary: Document the aquatic biophysical environment in the Meladine Lake, Peter Lake and Meladine River basins. Seasonal fish movements and critical habitat will be determined. Assessments will include analysis of benthic invertebrate, zooplankton and phytoplankton fauna: water and sediment chemistry analysis. The data collected will be used in the preparation of an environmental impact assessment for a proposed gold mine near the southeast end of Meladine Lake. The data will also form the baseline for future monitoring activities.

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Number in party: 6
Location/Region: Keewatin
Project Title: **Geology of Archean and Proterozoic Supracrustal Rocks, Kaminak Lake/Tavani Area**

Summary: To map the bedrock and geology of selected portions of the Kaminak Greenstone belt; to enlarge the database of geochronological and geochemical data for this belt; to decipher the Archean and early Proterozoic geological history of the Kaminak/Tavani area; to constrain the locations, types and development of mineral resources in the area.

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Location/Region: North Baffin
Project Title: **Permafrost Hydrology and Environmental Significance of Perennial Springs in the Expedition Fiord Area, Axel Heiberg Island**

Summary: To assess the environmental significance of spring discharge at Expedition Fiord. To determine the nature of hydrolic activity, including groundwater source and residence time. To investigate the geomorphic impacts of perennial spring discharge. To model

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Location/Region: North Baffin
Project Title: **An ecological comparison of polar perennial ice-covered lakes.**

Summary: High altitude lakes display a wide range in ice-cover conditions and summer lake ice regimes. Ice cover plays a critical role in determining the environmental conditions within a lake; the presence on an ice cover can eliminate wind-generated currents and reduce mixing thus reducing impacts upon biological processes. Our studies in the McMurdo Dry Valleys of Antarctica and at Color Lake on west central Axel Heiberg Island in the Canadian Arctic have provided some interesting findings regarding year-to-year variation in lake processes directly related to lake ice regime. For a variety of reasons few lakes in the Arctic keep their cover continuously year after year like those in the Antarctic. Preliminary discussions with PCSP have indicated however that the Lake on Ward Hunt Island does keep its cover. To this end we propose a reconnaissance study to: (a) assess the thickness and structure of lake ice cover at Ward Hunt Island, (b) to determine if the lake is completely frozen, (c) to investigate the hydrologic and sedimentologic conditions beneath the ice cover and (d) assess degree of biological activity.

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Location/Region: North Baffin
Project Title: **Terrain sensitivity in the Eureka area, Ellesmere Island**

Summary: The proposed study will investigate the terrain sensitivity and thermokarst processes in the Eureka area of Ellesmere Island. This area has a long and well documented history of activity beginning in the late 1940's. A 50 year record of activity involving the Atmospheric Environment Service (AES), the Department of National Defense (DND), the Geological Survey of Canada (GSC) and oil and gas exploration provides a unique opportunity to assess the terrain response and sensitivity of a potentially unstable area. Climate data from the Eureka Weather Station (AES), established in 1947, together with considerable subsurface information collected during the construction of 2 airstrips (one now abandoned), AES and DND facilities, shallow drilling by the GSC in support of surficial geological mapping and detailed work on ground ice provides an outstanding database from which terrain sensitivity maps can be developed. The Eureka area provides a unique opportunity to investigate the interaction between human occupation and landscape change in an ice-rich high arctic setting. The aims of this research are : (1) to map the extent of natural and human induced terrain disturbance in the Eureka area, (2) to investigate the nature and role of ground ice in thermokarst processes in a high arctic polar desert, (3) to assess the long-term impact of human activity in the Eureka Sound lowlands, and (4) to determine what proportion of recent tundra disturbances are natural as opposed to the result of human activity.

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Location/Region: North Baffin
Project Title: **Reconnaissance level geoscience sampling**

Summary: The focus of this project is to conduct limited reconnaissance - scale field work prior to the possible initiation of more extensive geoscientific investigation in the central portion of Baffin Island. The scope of the work is intended to: verify existing geoscientific observations; familiarize personnel with the study area; and field test concepts/ideas from current data analysis. The major areas of work for this summer will be in geochemical data collection and analysis, quaternary geology and application to remote sensing to geologic mapping and mineral exploration. Based on these observations a long term project will be planned to develop a thorough geoscience data base of the area. This will be the basis for making sound resource management decisions.

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Location/Region: North Baffin
Project Title: **Paleoclimate reconstruction of the last millennia using laminated lake sediments in high arctic lakes**

Summary: The objective of this study is to reconstruct climate of the central arctic archipelago for the period of the last ca. 2000 years using annually laminated sediments from arctic lakes. The study will be conducted on a transect of lakes extending from eastern Devon Island to western Bathurst Island. Analysis of sediments and understanding the links between climate and the sedimentary record along this transect will allow us to evaluate how prominent environmental changes of the late 19th to 20th centuries in the arctic region compare to changes in the past, thus allowing a evaluation of whether the recent changes are within the range of natural climate variability or perhaps in part controlled by human interaction.

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Location/Region: North Baffin
Project Title: **High resolution genetic characterization of arctic char (*Salvelinus alpinus*) from the high arctic, Ellesmere Island, Canada**

Summary: We propose to collect arctic char from several lakes in the vicinity of the Eureka Research Station. Arctic charr from this area are the most northerly freshwater fish and as such, they must be uniquely adapted to the very low productivity and temperature regimes of the environment. Recent genetic studies have revealed very low genetic diversity in arctic charr which would suggest that existing populations are derived from small numbers of founding individuals. Despite low genetic diversity, arctic charr populations sometimes exhibit phenotypic polymorphism, that is, fish in the same population have different body size, color and overall appearance. We will use molecular techniques to genetically characterize arctic charr samples to address several questions: How genetically unique are high arctic populations of charr compared to more southerly populations? How has isolation influenced the genetic diversity of charr inhabiting the extreme north? Finally, if a phenotypically polymorphic population is discovered, are there genetic differences between the morphological variants? Analysis of the data will provide insights into the evolutionary processes which have shaped arctic charr. Lastly, understanding the genetic uniqueness of arctic charr stocks can lead to improved management decisions.

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Location/Region: Keewatin
Project Title: **Investigation of magnetic lineaments west of Arviat and mineral showings of the eastern mainland.**

Summary: Geophysical surveys flown over N.T.S. map areas 55 D and E, west of Arviat, have outlined several linear magnetic zones. Some of these zones are known to be caused by "banded iron formations", which host several major gold deposits elsewhere in the north - Lupin, Meladine and Damote Lake are examples. However, very little work has been done in these targets. My objectives are 1) to locate any magnetic outcrops and determine the cause of magnetism. 2) to locate, describe and sample any mineralization in these outcrops, 3) to incorporate these results into regional geological studies, 4) to provide these results to local communities, mining companies, and other interests.

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Location/Region: North Baffin
Project Title: **Hydrology and Dynamics of a High Arctic Glacier: John Evans Glacier, Ellesmere Island**

Summary: To investigate the dynamic response of arctic glacier systems to recent and future climate change.

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Location/Region: North Baffin
Project Title: **Biogeography and origins of arctic macroalgal lineages.**

Summary: The proposed research project will examine distribution patterns and evolutionary relationships of widespread arctic macroscopic algae, both in marine and freshwater habitats in the vicinity of Resolute, Cornwallis Island. We will test two hypotheses: 1) the arctic seaweed flora is equally represented by north Atlantic and Pacific species; 2) the stream macroalgal flora constitutes a northern extension of a small portion of the temperate community rather than an assemblage of unique species.

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Location/Region: North Baffin
Project Title: **Water Quality and Environmental Change in Arctic Lakes and Ponds**

Summary: The main objectives of this year's work is to undertake a brief survey of water quality variables in a series of lakes and ponds near Cape Herschel and Eureka as well as nearby sites on Axel Heiberg Island. We also hope to continue monitoring water quality in the Resolute ponds and lakes, near the vicinity of PCSP headquarters. Our main goal is to assess the present-day water quality of these sites. In addition we also collect a small amount of lake and pond mud to determine the algae assemblages present in these sites.

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Location/Region: North Baffin
Project Title: **Factors Affecting the Distribution and Abundance of Ringed and Bearded Seals in the Northwater of Northern Baffin Bay**

Summary: This proposal is part of a large interdisciplinary and international project to understand physical and biological processes in the Northwater polynya of Northern Baffin Bay, and why the Northwater area is so biologically productive. The objective of our study is to determine what factors affect the distribution and abundance of ringed and bearded seals in relation to the Northwater.

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Location/Region: North Baffin
Project Title: **Search for Fossil Vertebrates in Syntectonic Deposits in Eastern Ellesmere Island, Canadian Arctic Archipelago**

Summary: Non-marine rocks cropping out along the east coast of Ellesmere Island are important in determining the timing of the Eureka Orogeny, a major mountain-building event resulting from the opening of the Nares Strait and rotation of Greenland relative to North America. Age ages of these beds are in doubt: some studies have correlated the deposits with the middle or late Eocene, but a 1997 Geological Survey of Canada publication reported early Cretaceous pollen from the Franklin Pierce Bay outlier. We hope to collect fossil vertebrates, especially mammals, that would allow more reliable correlations and age determinations. If successful, we should be able to correlate to within 3.5 million years at the worst.

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Location/Region: Keewatin
Project Title: **Bedrock and Surficial Mapping Studies in the MacQuoid-Gibson lakes Region (Western Churchill NATMAP program)**

Summary: The western Churchill NATMAP Program is a multidisciplinary initiative by the Geological Survey of Canada in the Kivalliq region of Nunavut. The principal objectives of this summer's program involve geological mapping (bedrock and surficial) in the MacQuoid -Gibson Lake regions (NTS 55M,N) that has significant mineral potential.

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Location/Region: South Baffin
Project Title: **Microbial Communities in the Waste Treatment Ponds and in Frobisher Bay at Iqaluit**

Summary: Our objective is to quantify and identify nonpathogenic microbial communities in the municipality's waste treatment ponds, along various pond trickle paths, adjacent terrestrial environments and in Frobisher Bay. While there is extensive information about the time course of microbial community change in waste systems of temperate regions, much less is known about change in Arctic systems.

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Location/Region: North Baffin
Project Title: **Microbial response to global change in Arctic lakes and rivers**

Summary: Microbial species - bacteria, small-celled algae and protozoa - control the flux of mass and energy at the base of the aquatic food webs in Arctic lakes and rivers. This project is focussed on understanding how these communities are structured, and how key microbial processes will respond to global change. The project will be preformed in lakes and ponds in Northern Ellesmere Island region to evaluate the response of these communities to changes in ambient CO2 concentrations and various climatic variables, such as incident solar radiation, including UV-A and UV-B, and to compare the responses to those exhibited by similar systems in Antarctica. Samples will also be collected that will allow a comparison between cyano- and other bacterial community structure with those of the Antarctic systems.

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Location/Region: Keewatin
Project Title: **Western Churchill NATMAP Project: Deep Structure of the Lithosphere from Teleseismic Studies**

Summary: Teleseismic studies provide an effective means of obtaining information about the Earth's lithosphere (the rigid outer shell of the Earth which extends to greater 150 km depth) in remote areas where higher resolution geophysical methods (e.g. seismic reflection/refraction) are impractical due to cost or logistics. Teleseismic methods are capable of 1) mapping vertical and lateral variations in the physical properties (seismic velocity) of the lithosphere, 2) mapping subhorizontal interfaces within the crust and subcrustal lithosphere including the crust/mantle interface (Moho) and 3) measuring seismic anisotropy which provide constraints on lithospheric deformation 1) to determine the geophysical characteristics of the lithospheric mantle (to depths of up to 300 km.) beneath the Western Churchill province to help constrain the age and thickness of the mantle root underlying the craton. 2) to test for the existence of a postulated NW-SE trending mantle boundary (at depths of greater than 40 km) transecting the Churchill Province, inferred from global seismic tomography. If two mantle blocks having distinct attached lithospheres were welded together, there may be observable differences in the seismic and electrical characteristics of the lithosphere across this boundary.

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Location/Region: South Baffin
Project Title: **Lake sediment coring and environmental history in the Broughton Island region of northern Cumberland Peninsula**

Summary: A continuation of research aiming to gain a better understanding of the climate history of Baffin Island. To do this cores from the bottom of lakes, which are essentially libraries of information concerning environmental history, will be analyzed. The area of interest on northern Cumberland Peninsula, between Narpang Fiord and Padloping Fiord has revealed some of the oldest lakes from anywhere in the Arctic.

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Location/Region: North Baffin
Project Title: **Snow distribution and snowmelt in a High Arctic environment**

Summary: To obtain snow distribution and snowmelt information from ground observations and use such information to compare against satellite data, in preparation for future hydrological investigations on a regional scale. 1998 projects 1) provide ground snow survey data to compare against passive microwave signals from satellite, to permit future surveillance of snow cover conditions for the High Arctic; 2) determine variations to snowmelt in different Arctic terrain types so that equations can be developed to calculate snowmelt over large areas.

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Location/Region: Keewatin
Project Title: **Bedrock Mapping of the Woodburn Lake group, Meadowbank River to Tehek Lake (Western Churchill NATMAP Program)**

Summary: The Woodburn Lake Project is part of the Western Churchill NATMAP program of the Geological Survey of Canada aimed at understanding the geological evolution and mineral potential of the Western Churchill region of Nunavut. The project will map the bedrock exposures of volcanic and sedimentary rocks of the Woodburn Lake group north of Baker Lake, including extensive units of iron formation.

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Location/Region: Keewatin
Project Title: **Blood, Stone & Bone: Contemporary Inuit Sculpture of Third Generation Artists from Arviat, Cape Dorset, and Clyde River.**

Summary: The project will seek to examine the lives and the art (sculpture) of the third generation of Arviat artists and how they differ from the preceding generations (their parents and grandparents). Young artists from Cape Dorset and Clyde River have been interviewed (1997) and the information gathered in Arviat will be included in the project to provide a broader perspective and greater contrast to the project. Similarities and differences in styles, techniques and subject matter will be compared as well as aesthetic influences, economic pressures and cultural content will be examined as they pertain to the different generations within the community of Arviat itself as well as in relation to the other two communities included in this study.

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Location/Region: Nunavut
Project Title: **Utkuhikhalingmiutitut Dictionary Construction**

Summary: To complete the construction of a dictionary and postbase list for the Utkuhikhalingmiutitut dialect of Inuktitut for the use of Nunavut Language Commission, Inuit communities in general and Gjoa Haven and Baker Lake in particular, as well as linguists interested in Inuktitut language.

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Location/Region: Keewatin
Project Title: **The Caribou Skin Kayak of Baker Lake**

Summary: 1) To aid the Baker Lake community in its attempts to record and preserve oral traditions relating to caribou skin kayak construction and use. 2) To identify and survey the members of the Havaqtormiut population (within Baker Lake community) who are interested in maintaining traditional caribou skin kayak knowledge as a way of regaining or strengthening Inuit identity. 3) To examine the pressures which are inhibiting the reintroduction or maintenance of traditional kayak knowledge.

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Location/Region: Kitikmeot
Project Title: **Transmission of Geographical Knowledge in Inuinnait Society**

Summary: This project is part of research initiated in 1991 dealing with Inuinnait geographical knowledge and which developed out of a study of Inuinnait place names. It will concentrate on 3 issues and 1998 field-work will focus on at least one of them, depending on local conditions encountered: 1) Transmission of travelling routes between generations. 2) Changes in the traditional spatial organization pattern inside Inuinnait homes, relating to the shift to permanent houses. 3) Places considered important by young adults, from which they build their identity.

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Location/Region: Kitikmeot
Project Title: **Ekalluk River Project, Seal Hunt Project, Traditional Knowledge Workshops**

Summary: Ekalluk River Project: To collect oral histories from the few remaining elders who have knowledge of traditional use of this area. To contribute information towards a plan to have the area archeologically surveyed and studied. Seal Hunting Project: to continue interviewing Elders regarding seal hunting methods and techniques. To video Elders and youth seal hunts at various times throughout the year. Traditional Knowledge Workshops: Workshops throughout the year run by Elders to teach youth how to make traditional tools, clothing and other items.

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Project Title: **Seal Traditional Knowledge Project**

Summary: To continue interviewing elders regarding seal hunting methods and traditional knowledge of seals in additional communities within the region and for comparison purposes in Sanikiluaq. Researchers also hope to benefit by learning how people in the latter community conducted the Hudson Bay Traditional Knowledge project, recently published. Lines of communication have already been established with the researchers in Sanikiluaq.

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Location/Region: South Baffin
Project Title: **The Political Ecology of Co-management in the Eastern Arctic: A Case Study of the 1986 Clyde River/Brought Island Polar Bear Memorandum of Understanding**

Summary: The objective of this final phase of the research project is to conduct follow-up interviews with the members of the Hunter's and Trapper's Associations of Clyde River and Broughton Island on Northeastern Baffin Island concerning the negotiation of the 1986 Memorandum of Understanding on the harvest of polar bears. These final interviews will serve to examine the validity of interview information collected during June and July of 1997. The objective of the overall research project is to define the nature and structure of this co-management agreement and its impact on both the signatory parties and the polar population of Northeast Baffin Island. A second research objective is to document otherwise unpublished data concerning early polar bear population inventories conducted in the early 1980's by the Department of Renewal Resources, Government of the Northwest Territories.

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Location/Region: South Baffin
Project Title: **Discourse and Identity in Iqaluit**

Summary: To expand knowledge of the culturally relevant ways through which various individuals and groups communicate linguistically amongst themselves within the confines of the multilingual community of Iqaluit, and to examine how these discourse practices help define the ethnic identity of the speakers.

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Location/Region: South Baffin
Project Title: **Inuit Images in Museum Collections and Tourist-Purchased Art**

Summary: The objective of this research are three-fold. First, I hope to examine and understand the different stereotypes of Inuit that have been created in southern Canada. To do this, I have undertaken to study the Inuit Art World as a vehicle of understanding these stereotypes. I will examine all aspects of the Inuit art world: national collections, southern and northern galleries and vendors, and finally any stereotypes that art-purchasing tourists may have. My second objective is to listen to and incorporate Inuit views in these stereotypes as a central building block of my thesis. While in the north, I hope to also speak to tourists and to seek out what conceptions they may have about Inuit and the North. My third objective involves research based in the south. I hope to examine the depictions of Inuit art at the Museum of Civilization, the National Gallery and the Winnipeg Art Gallery and possibly private galleries.

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Project Title: **An Inuit History of Exploration**

Summary: The objective of my research is to undertake a preliminary study to determine if material is available in Igloolik that will lend support to the idea of writing a Inuit history of encounters with the first explorers.

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Location/Region: North Baffin
Project Title: **The Negotiation, Creation and Mediation of Inuit Culture**

Summary: The purpose of the study is to learn more about how traditional culture is translated into modern mass media. The study of traditional cultures and the media concentrated on the appearance of traditional images, themes etc., in modern media. In this study, I hope to learn more about how traditional culture is modified, shaped, edited, and presented for mass consumption -- including consumption by people outside the subject culture.

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Location/Region: North Baffin
Project Title: **Local knowledge and co-management of North Baffin Island National Park**

Summary: 1-To learn about and understand cultural, spiritual, and ecological values of Inuit people.
2- To gain an understanding of how local knowledge is organized so that it may be incorporated into co-management.
3- To promote cultural awareness and appreciation by sharing research results with non-Inuit communities
4- To explore potential methods of using local knowledge in conjunction with scientific knowledge.
5- To learn from both Inuit men and women who may represent different but equally valuable roles in providing information.
6- To promote an understanding of Inuit culture.

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Location/Region: Keewatin
Project Title: **The Impact of the Internet on a NWT Community**

Summary: This project involves talking to volunteers, supporters and users of the Iglaaq Community Access Centre in Rankin Inlet about the Internet and the impact it has on them and their community. The project involves personal interviews, 3 focus group interviews and a take home survey for all students in the 3 Rankin Inlet Schools. The volunteers at Iglaaq have been involved in designing the approach to the project and in development of the instrument (questions, public information). Rankin Inlet was chosen as the location for the project because it has the most successful Community Access Center in the NWT. The data gathered during the project will be used to help other NWT communities that are interested in establishing their own Community Access Centres. The data will also be available to Iglaaq volunteers for use in future planning and as documented evidence of their success for future funding proposals.

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Project Title: **The Harvaqtuurmiut Cultural Landscape: 1920-1960**

Summary: To record the place names and oral traditions of the Harvaqtuurmiut for the benefit of future generations. This research will result in the production of a masters thesis by researcher Darren Keith and the eventual publication of a history of the Harvaqtuurmiut by Darren Keith and Joan Scottie. The project will build on previous research conducted for the establishment of Fall Caribou Crossing, National Historic Site.

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Location/Region: Kitikmeot
Project Title: **Franklin Oral History Project**

Summary: The purpose of the Franklin Oral History Project is to record any oral traditions related to the disappearance of the Franklin Expedition that may still be remembered by the Elders of Gjoa Haven. This broad purpose can be broken down into a number of specific goals deriving from the research activities of the Eco-Nova project to locate one of Franklin's ships in the Uggulik area southwest of King William Island. These goals are to record: 1) oral traditions believed to be associated with the Franklin Expedition activities on King William Island and the surrounding area. 2) oral traditions relating to specific artifacts, and artifact location recorded during the Eco-Nova project in August 1997. 3) oral traditions relating to a skiff found in the Uggulik area by the Eco-Nova project. This skiff was once used as a launch on a larger ship, but was used and modified by an Inuk before being left on an island in the Uggulik area. 4) Franklin Expedition related artifacts that may be held by the community members and to record any observations related to their original context.

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Location/Region: Keewatin
Project Title: **The memories of John Arnalukjuaq; Inuit Heritage in the Churchill/Prince of Wales Fort**

Summary: This project was initiated by John Arnalukjuaq on Elder and the chair of the Arviat Historical Society. It will be run by the Arviat Historical Society and organized by project manager David Ukutak, Darren Keith and Andrew Stewart and the contact researchers. The goal is to record the memories of John Arnalukjuaq - specifically the place names in the Churchill area including the associated meanings and stories and songs. We will also record any interpretations John has of archaeological sites in the area (Inuit). Place name recording will cover the area from Churchill Manitoba to Arviat, Nunavut.

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Location/Region: South Baffin
Project Title: **The Federal Government of Canada's Residential School System for Inuit 1955-70**

Summary: To research the history of the Federal Government of Canada's Inuit residential school system in order to establish an in depth study as to the administrative, religious, economic and daily functions of the schools, to establish the difference between a residential school from any other form of school; to establish the difference between segregated Inuit schools and public schools; to demonstrate the roles of the Catholic and Anglican churches.

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Location/Region: South Baffin
Project Title: **Aesthetic and shamanism in south Baffin Inuit culture**

Summary: While precedent studies concerning Inuit art productions tended to underestimate the powers of presence of artistic production activities into Inuit communities and culture, narrowing this presence to an economic one since the development of Inuit contemporary commercial forms of art productions, our study will focus on the embodiment of the sculptor's activities into the traditional and contemporary social and symbolic life of a relatively homogeneous cultural area composed by the communities of Kimmirut and Kingait. By documenting the social and symbolic meanings that south Baffin Inuit project into the sculptor's activities this study will increase the understanding of Inuit conceptions and theories of aesthetics in relation to Inuit traditional and contemporary symbolic systems including shamanic system.

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Location/Region: Kitikmeot
Project Title: **Pelly Bay Oral History Project**

Summary: To record on 8mm video, the rhymes, songs, stories, legends and recollections of Elders who will be demonstrating traditional hand games and other games they used to play. To use this videotape as teaching material in the school, community and for research purposes.

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Location/Region: South Baffin
Project Title: **UNIKKARTUIT (The Storytellers): Meanings of Suicide, Distress, Healing, and Wellness in Three Nunavut Communities**

Summary: The primary objective of this project is to help understand suicide, distress, healing, wellness and health in the Baffin region of Nunavut. This project is designed to help provide information about the people in the communities by speaking directly with the people who live there. This information will be given to any organizations or groups working on suicide prevention in Nunavut to help them further tailor their programs to the people.

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Location/Region: Kitikmeot
Project Title: **Community Development and Social Work Practice in Nunavut**

Summary: This study is a continuation of work previously documented in "Tammarniit: Inuit Relocation in the Eastern Arctic 1939-1963"(Tester and Kulchyski., 1994, UBC Press). This current project examines social/political/economic development in the period 1955-1970, focussing on attempts at community development initiated by community development officers supported by other public officials (teachers, religious leaders, government officials, doctors, nurses, etc. The research examines the Inuit experience with this period, including resistance to and adaptation to the imposed order.

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Project Title: **Community Development and Social Work Practice in Nunavut**

Summary: This study is a continuation of work previously documented in "Tammarniit: Inuit Relocation in the Eastern Arctic 1939-1963"(Tester and Kulchyski., 1994, UBC Press). This current project examines social/political/economic development in the period 1955-1970, focussing on attempts at community development initiated by community development officers supported by other public officials (teachers, religious leaders, government officials, doctors, nurses, etc. The research examines the Inuit experience with this period, including resistance to and adaptation to the imposed order.

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Location/Region: Keewatin
Project Title: **Connection the North: Northern Aboriginal Peoples Advocate for a Northern Information Highway**

Summary: To gather information with regards to the development of the information highway in Northern Canada through in-person interviews with major Northern stakeholders and users of information highway services located in Yellowknife, and Rae-Edzo, NT as well as Rankin Inlet, Nunavut. This information will be used to complete my research for a Master's thesis in Media Studies which examines the development of the information highway in the North in terms of public policy process involving public consultation.

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Location/Region: South Baffin
Project Title: **The Community Radio in Nunavut**

Summary: The objective of this project is to better understand the intensive and very specific use of community radio by all Inuit communities. With minimal technological resources and almost no funding, community radios have been an essential ingredient of Eastern Arctic community life for the past 25 years. Our study will demonstrate how community radios are performing an essential task of identifying "tuning" by providing an ongoing forum on all aspects of collective life in a context of rapid cultural change and globalisation

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Location/Region: North Baffin
Project Title: **Inuit Women's Contribution to the Social & Economic Life of Northern Communities Through Sewing**

Summary: To document the continuing value and significance of sewing for Inuit seamstresses and community members. To explore how sewing activities reflect Inuit cultural values and appropriate modes of behaviour. To examine particular ways of approaching work and time issues, the use of materials, and approaches to teaching and learning. To look at the varied forms of sewing that seamstresses undertake and how sewing activities have changed over time.

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Location/Region: South Baffin
Project Title: **The Inuuqatigiit Curriculum Framework Development Process: A Qualitative Case Study**

Summary: The purpose of this qualitative case study is to investigate the process used to develop the Inuuqatigiit curriculum framework produced by the Northwest Territories Department of Education. The information in this thesis will allow for curriculum developers in the Northwest Territories to reflect on the process and to determine if changes should be made for further curriculum development. I am currently the High School Program Consultant at the Baffin Divisional Education Council and the information in this thesis will allow me to better perform my duties as a program consultant.

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Location/Region: South Baffin
Project Title: **South Baffin Place Names Project**

Summary: 1) To collect and record place names information in the South Baffin area. Place names information includes traditional Inuit names for places as information about how places were used, stories associated with places, and other relevant information. 2) To produce maps with the correct place names in Inuktitut syllabics and roman orthography, with the assistance of the Nunavut Planning Commission. 3) To share place names information with the general public, schools, etc, through maps, databases, the internet and on CD.

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Location/Region: Keewatin
Project Title: **"Inuit Oral History and Land Use of Northern Manitoba"**

Summary: The Inuit of northern Manitoba have traditionally hunted and traveled in the area to the south of Arviat, including parts of northern Manitoba. However, the modern political boundary of sixty degrees has cut through this area and has caused the Inuit use of Manitoba to be somewhat ignored by researchers and politicians. The Arviat Historical Society has identified this oversight as one of its research priorities, and so we have collaboratively designed a project that will involve oral history interviews and map biographies with elders to document Inuit experience and perceptions of northern Manitoba. Our objectives are: 1) To document Inuit oral histories of northern Manitoba 2) To document Inuit land use of northern Manitoba 3) To design a suitable use of the gathered information for the Arviat Historical Society

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Location/Region: Baffin
Project Title: **Identification of the artistic inter-cultural process of collaboration in Igloolik through ISUMA Production and Tarriaksuk Video Centre**

Summary: The project will be carried out within an Inuit corporation in the cultural industry, Isuma Production, and will take the form of participant observation fieldwork in the Igloolik area. The aim is to identify the artistic intercultural process of collaboration through ISUMA, and to identify the common values of both Inuit and Qallunaat artists from both an organizational and relational standpoint. The research will be conducted around the production of a feature film made entirely by the Inuit. Such research should help us better understand the novel directions being taken by this new North/South partnership. It should also highlight the creativity of this corporation, which has used the elder's wealth of traditional knowledge to define its objectives and which has exploited the latest developments in digital technology. The results of this research should benefit as much those who are interested in cultural products and communication as it should benefit the ISUMA corporation itself, which has already shown interest in the project.

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Location/Region: North Baffin
Project Title: **Traditional Inuit Naming Practices and Shamanistic System (Part Two)**

Summary: This research is a part of a larger comparative program which explores gender and name identity as important components in shamanism among Inuit, Chukchee (Siberia) and Shipibo (Amazonia). The 1998 fieldwork in Clyde River proposes to complete, with some Inuit Elders, the inquiry already made in Igloolik in 1997, on the Svend Fredirksen's texts (recorded Inuktitut between 1946 and 1968 in the Nunavut area) concerning "Traditional Inuit Naming Practices and Shamanistic System". I would also like to record Inuktitut from the Elders oral tradition concerning past experiences of encounter with deceased relatives or spirits (during dreams or travels).

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Location/Region: South Baffin
Project Title: **The Development of the Education System in the Northwest Territories since World War II**

Summary: To gather information about peoples' educational background. I plan to collect data at the Teachers' College in Iqaluit and by means of a questionnaire to test the following hypotheses: that the younger generation is learning Inuktitut at school; that the younger generation is learning traditional activities; that the younger generation is learning the history of the Inuit; that the teachers of the younger generation are mainly Inuk; that nowadays Inuktitut is the language used for teaching.

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Location/Region: North Baffin
Project Title: **An/Other World: An Ethnographic Study of how Southern Television Informs Inuit Women's Concepts of Gender**

Summary: This project will be an audience study of how Inuit women's concepts of non-Inuit women as well as their own gender identities are influenced by Southern television programs. The researcher will be part of a small research team made up of both Southern and Inuit women, including members of the Arnait Ikajurriit, a women's video workshop based at the Tarriaksuk Video Centre in Igloolik, NWT. The fieldwork portion of the research will draw on qualitative methodologies, specifically a combination of feminist research methods, oral history, visual anthropology, and media ethnography.

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Location/Region: Kitikmeot
Project Title: **Ethnological Research of Traditional Knowledge, Language and Gender**

Summary: We plan to continue research concerning traditional knowledge (particularly subsistence activities), and language, as well as begin detailed gender studies. 1) Research concerning traditional knowledge will focus mainly on substantiating and resolving questions concerning past interviews and observations. 2) We have been compiling a lexicon and syntax for Arviligjuaq (a sub-dialect of the Natsilingmiutut dialect of the West Canadian Inuktun Group, Inuktitut) over the past several years. This year's linguistic research will be primarily continued data collection and problem solving of past data. 3) Our past research has concerned mainly male activities. This year we plan to put more effort into gender related studies. We will record and analyse women's activities and social roles in preparation for more detailed research planned for the future. Such research is intended to study the role of women in the new political environment of Nunavut.

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Location/Region: North Baffin
Project Title: **The Canadian Museum of Nature/Igloolik NWT Videoconferencing Project**

Summary: The videoconferencing Project has the following objectives: To increase our understanding of nature and the land in two distinct regions of Canada; To facilitate cross-cultural exchange between participants in the north (Igloolik NWT) and participants in the south (Ottawa); To examine how our cultures, traditions, and lifestyles are shaped by our natural environments; To pilot the use of new communication technologies for purposes of science and traditional knowledge education.

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Number in party: 2
Location/Region: Every Community in Nunavut.
Project Title: **Perceptions of Inuit Educators of the School Principal's Role**

Summary: The purpose of this study is to identify the factors which motivate Inuit women to become school principals and the factors which create barriers. The objectives are: 1)to discover which factors attract female Inuit educators to become school administrators; 2)to discover which factors make school administration an unattractive career; and 3) to provide data for education policy makers on the influences into the role of principal.

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Location/Region: South Baffin
Project Title: **Arctic Dreams: Northern Tourism and Baffin Inuit Community Development**

Summary: This is the last year of a 3-year research program. This final year will have two main foci: 1) to collect archival information on the link between the GNWT's tourism strategy in the Baffin region and local economic development; 2) to complete detailed interviews with an important visitor group - members of the Iqaluit Elder Hostel program. In addition general interviews will be conducted, as in 1996 and 1997, with visitors intercepted at the Iqaluit airport and the Iqaluit museum. Of these three elements, it is the first that is seen as crucial. This is because such data will serve to place the present tourism development program in the wider context of what many perceive to be a crucial need within Nunavut - local economic development. As such, this work will form the capstone to five detailed community case studies.

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Location/Region: North Baffin
Project Title: **The Political Ecology of Subsistence in Nunavut: Policy History and Community Effect**

Summary: To examine how government policy in Nunavut has developed with regard to the support of Inuit harvesting and subsistence activities. The project shall approach these issues at two levels: the analysis of official archival information on policy related to hunting and subsistence (Iqaluit phases); the collection and analysis of economic data from local harvesters in Clyde River. The overall objective is to understand the way(s) official policy makers at a variety of governmental and quasi-governmental levels have responded to the cultural and economic stresses imposed on Inuit subsistence practice by the collapse of the European sealskin market (1983) and to integrate this understanding within a model of Inuit adaptation.

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Location/Region: South Baffin
Project Title: **Representations of the North: The Photographs of Peter Pitseolak**

Summary: The research will involve speaking with people from Cape Dorset, including Peter Pitseolak's friends and relatives in order to substantiate the research already undertaken through McCord Museum archives. I aim to challenge some of the stereotypes of the Inuit and northern life, while at the same time to reveal some of the complexities and subtleties in Pitseolak's work.

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Number in party: 9
Location/Region: South Baffin
Project Title: **Documenting traditional knowledge on helping and healing ways: Creating culturally sensitive Nunavut Social and Health policies.**

Summary: The first objective of this research project is to build community involvement and participation by Inuit in a study of social supports and social networks. These supports are the natural helping ways of the people in a local community. The purpose of this study is to describe Inuit adaptability and resilience to change and look at how Inuit may be able to use this knowledge to prepare for Nunavut. The first objective will identify an Inuit Community liaison person in Pond Inlet and Lake Harbor as a contact person to assist with the ongoing development of the project. With the assistance of this person, other Inuit will be identified to contribute information to the study. The second objective will be to identify local people to work for the project as interpreters, research assistants and participants in the study. A third objective will be to identify people who will contribute stories and share their knowledge of social support within the family context and kinship patterns. The focus will be to describe the informal and formal strengths and capabilities of Inuit that have supported their well-being during the dramatic change over the past thirty years of settlement life.

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