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 traditional knowledge, 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 traditional knowledge, 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 traditional knowledge in research projects.

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

FOR MORE INFORMATION

For more information about the research projects listed in this Compendium, please contact:

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Location-Region: South Baffin

Project Title: **Flowering Plants of the Canadian Arctic Archipelago**

Summary: Previous work in the Canadian Arctic Archipelago (1985-94) has concentrated on understanding grasses. The work was published in November 1996 and recognizes 49 grass taxa, 37 of which can be used as environmental indicators. The researchers are now ready to move onto plants other than grasses and anticipate that data would be gathered in the DELTA database format described in the paper on grasses. They expect their research will have very little environmental impact, as the goal of the work is to gather data in the spirit of "take only photos, leave only footprints". For the sake of scientific records the researchers aim to keep single voucher specimens of plants photographed so that identifications may be confirmed.

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Number in Party: 7
Location-Region: North Baffin

Project Title: **Mineral and Energy Resource Assessment of Northern Bathurst Island**

Summary: In conjunction with Parks Canada, the objectives of the work include preparing an assessment of the mineral and energy resource potential of northern Bathurst Island area. The focus of this year's work is to investigate areas on northeastern Bathurst Island which are indicated as having high potential for mineralization, and to complete regional stream sediment and water geochemical sampling.

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Number in Party: 1
Location-Region: Kitikmeot

Project Title: **Jericho Diamond Project Environmental Baseline Study**

Summary: Field programs include water and sediment quality, acid rock drainage, hydrology, bathymetry, meteorology, air quality, aquatic studies, soil and vegetation analysis, wildlife and wildlife habitat, traditional knowledge, socio-economics, abandonment and reclamation, and archaeology.

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Number in Party: 3
Location-Region: Keewatin

Project Title: **Baseline Environmental Studies - Meadowlake Gold Project**

Summary: The objective of this study is to gather baseline chemistry and biological data from Tehek Lake and two small lakes, approximately 70 km North of the community Baker Lake, NWT. Since 1995, Cumberland Resources Ltd, Vancouver, has been conducting exploratory drilling for gold. Baseline studies will help gain an understanding of the water chemistry, and composition and distribution of invertebrate species (plankton living in the water column and on the lake bottom) and fish in each of the lakes. This information is required to describe the existing environment prior to any mine development.

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Number in Party: 8
Location-Region: North Baffin

Project Title: **Collaborative - Interdisciplinary Cryospheric Experiment**

Summary: The science conducted has directly evolved from research relating to one of four general themes: sea ice energy balance, numerical modelling of atmospheric processes, remote sensing of snow covered sea ice, and ecosystem studies. The objective of the field program is to integrate the field data within numerical models of the primary processes for operating in our area of interest, for the expressed purpose of 'scaling up' observations to more regional scales.

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Number in Party: 5
Location-Region: North Baffin

Project Title: **Fossil Forests of Axel Heiberg Island**

Summary: The fossil forests of Axel Heiberg Island rank among the best fossil plant localities in the world in abundance of material and quality of preservation. Numerous taxa, including extinct members of *Pinaceae*, *Taxodiaceae*, *Cupressaceae*, *Betulaceae*, *Fagaceae*, *Juglandaceae*, and *Platanaceae*, have been discovered. The Buchanan Lake flora represents a time of floristic and climatic transition, and is of particular relevance to questions on the origins of modern temperate vegetation and the nature of Tertiary global climatic deterioration.

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Number in Party: 4
Location-Region: North Baffin

Project Title: **Upper Paleozoic Basin Analysis of Sverdrup Basin, Canadian Arctic**

Summary: To perform a basin analysis of the upper paleozoic succession of the Sverdrup Basin in an effort to understand the stratigraphy, sedimentology, and economic potential of Nunavut and the Western Arctic.

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Number in Party: 3
Location-Region: North Baffin

Project Title: **Quaternary Geology of Bathurst Island**

Summary: As part of Mineral and Energy Resource Assessment, Terrain Science, Geological Survey of Canada began field investigations on

the Bathurst Island group, Southern Queen Elizabeth Islands. The objective is to map and explain the surficial materials and geomorphic features of Bathurst Island, Queen Elizabeth Islands and to gather data on Quaternary glaciations, till geochemistry, and sea level history. Comprehensive 1:250,000 maps will locate major landforms and surficial units. Surficial units will be assessed for granular resources and environmental sensitivity to disturbance. All outputs will be available in digital format for rapid retrieval and incorporation into Geographic Information Systems (GIS).

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Location-Region: Kitikmeot

Project Title: **Hydrographic and Gravity Survey of Rasmussen Basin and Rae Strait**

Summary: The objectives of this research are to conduct a hydrographic survey during February, March and April to define a potentially safe shipping route through the Rasmussen Basin and Rae Strait area, from a base in Gjoa Haven.

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Location-Region: North Baffin

Project Title: **Ice Scouring: Seafloor Disturbance by Drifting Ice Keels**

Summary: From 1992 to 1996, the same sector of seabed along the coast at Resolute Bay was resurveyed annually using GPS positioned sidescan sonar. The repetitive mapping program will be conducted again in 1997. Correlation of year to year data results in the identification of new ice scours and scour morphology changed with time. Observations will be used to determine spatial and temporal scour depth distribution. This research represents a continuation of the geological component of the ice scour biodisturbance study led by Dr. Kathy Conlan, Canadian Museum of Nature.

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Number in Party: 4
Location-Region: North Baffin

Project Title: **Fish from Sensitive Ecosystems as Bioindicators of Climate Change**

Summary: The aim of this project is to verify observations from high alpine lakes in Austria that metal bioaccumulation is heavily influenced seasonally (and possibly over the long term) by fluctuations in lake water temperature. The ultimate goal is to examine one aspect of the possible interplay between long-range atmospheric transport of cadium, lead, mercury, and other metals and global climatic change.

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Number in Party: 2
Location-Region: North Baffin

Project Title: **Microfossil Investigation of Proterozoic-Aged Rocks on Somerset Island**

Summary: In 1987, the researcher collected some samples from the Hunting Formation on the north end of Somerset Island. Thin-section analysis subsequently showed that they contained some remarkably well preserved fossils of ancient red algae - approximately 1200 million years, the oldest fossil seaweeds known. The objective of this research project is to return to the locality and collect more material in order to prepare a detailed report on these very important fossils. The researcher aspires to get a much better idea of where and how they lived and what they looked like.

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Number in Party: 2
Location-Region: North Baffin

Project Title: **Influence of Climate Change on Solifluction: An Experimental Study**

Summary: To simulate climate change and directly examine the effects of solifluction (the slow movement of soil downslope over permafrost). Because of its ubiquity, solifluction is one of the most important processes in the permafrost landscape. There are many environmental factors that influence this process of soil movement, therefore there is as of yet no theory that permits accurate prediction of its rates. Because it is such a widespread phenomenon in areas of permafrost, it is an important process to study.

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Number in Party: 10
Location-Region: North Baffin

Project Title: **Stock Identification of Bowhead Whales in the Nunavut Settlement Area**

Summary: The objective of the research is to examine stock relationships among bowhead whales in Nunavut. Samples of skin will be taken from free-ranging bowheads in Foxe Basin and also northern Hudson Bay. Local hunters interested in learning how to sample will be trained. Both nuclear DNA and mitochondrial DNA will be examined to test the hypothesis that Bowheads in Nunavut consist of one large stock.

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Number in Party: 5
Location-Region: North Baffin

Project Title: **Marine Bio-optics: Remote Sensing of Ocean Color in the High Arctic**

Summary: The objective is to develop relationships between phytoplankton abundance and differences in ocean color for rapid remote survey of phytoplankton by satellite. As well, to try to establish relationships to estimate primary productivity from space.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **Geologic Test for Extent of Wisconsinian Glaciation on Southern Baffin Island**

Summary: The purpose of this research is refinement of glacial chronology on southern Baffin Island by determining cosmogenic exposure ages of polished and striated bedrock surfaces and morainal boulders. In order to estimate the timing of deglaciation the researchers are measuring 10-Be and 26-A1 in quartz separates from roughly 2kg samples of: 1) polished and striated bedrock surfaces on valley bottoms and along fiord walls and 2) boulders on nested sets of moraines. They need to re-collect samples from the Pangnirtung area to augment earlier samples that were too small and they need to collect about 10 rock samples from the Iqaluit area, whose deglacial history is better carbon dated, for calibration of the results from Pangnirtung.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **History of Polar Bear Management on Northeastern Baffin Island**

Summary: The objective is to investigate the history of polar bear management in the communities of Clyde River and Broughton Island. Of specific interest is an investigation of the data used to reduce the polar bear quotas in the early 1980's for these two communities. The outcome of this investigation will be to provide a useful body of information that articulates historical interactions between biologists, government policy and biologists over the subject of polar bears.

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Number in Party: 2
Location-Region: North Baffin

Project Title: Factors Affecting the Degradation of a-Hexachlorocyclohexane in Arctic Lake Watersheds

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. Other ojbectives include: 1)To examine the chemical fate and degradation pathways of a-HCH in Arctic freshwater lakes; 2) To determine if a-HCH is degraded by microorganisms and if abiotic factors contribute to enantioselective degradation; 3) To investigate where in the watershed of Arctic lakes the degradation of a-HCH is occurring to the greatest extent; and 4) To investigate the role of nutrient levels, temperature and sediments in the degradation of a-HCH.

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Number in Party: 6
Location-Region: South Baffin

Project Title: Benthic Survey of the Areas Around Broughton Island

Summary: There are three main objectives to be pursued with this program. 1)To survey all known and possible growth areas to determine stock identification, stock population and growth. 2)To determine the reasons for die off of mussels in the Muktuk and North Pang Fiords.

3)To determine the viability of a commercial operation of any or all identified stocks.

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Location-Region: North & South Baffin

Project Title: **Scientific Project "DELAWAR"**

Summary: The objective is to collect samples of ice for microbiological research and radioactivity ice research. In addition, it is to discuss and observe the solutions employed in northern Canada to deal with associated methodological problems faced in organizing national park reserves in northern areas.

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Location-Region: North Baffin

Project Title: **Ozone Depletion and UV Inhibition of Photosynthesis in Arctic Kelps: Spectral and Temporal Dependence**

Summary: The overall objective of the proposed research is to determine whether UV-B is a significant factor affecting the primary production of kelps from the Arctic. The researchers will measure UV-B in kelp beds, estimate the parameters of spectral and time dependent

inhibition of photosynthesis in kelp and apply the model to the actual intensities of solar irradiance. The UV photobiology of laboratory reared kelps will first be studied to obtain a thorough description of the spectral and temporal responses, and optimize methods for subsequent application to specimens sampled during two summers and one spring field season in the Canadian High Arctic. During these field studies, measurements of incident spectral irradiance and spectral transmission by ice and water will also be made. These measurements will provide the basic information needed to assess the likelihood that UV can negatively impact Arctic kelp productions.

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Location-Region: North Baffin

Project Title: **Paleoenvironmental Change in the Canadian High Arctic**

Summary: This research builds on a twenty year long survey of past glaciations and sea level changes throughout Ellesmere Island. Previous work has covered much of the northern Ellesmere Island and has extended down both its west and east coasts to Alexandra Fiord and Raanes Peninsula. This work is designed to determine the number and extent of past glaciations in the High Arctic and how this is recorded by changes in past sea level which was affected by changing ice loads on the earth's crust. Through this study, past climate changes will be documented to lead towards a better understanding of arctic environments.

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Number in Party: 4
Location-Region: North Baffin

Project Title: **Bowhead Whale Research: Population Size and Critical Habitat**

Summary: The objective of this research is to produce a catalogue of individual bowhead whales and to estimate population size. As well, it is to develop a model of critical bowhead whale feeding habitat and to develop awareness of the ecology and conservation problems of the bowhead. This research will assist the community of Clyde river with the implementation of the Igalirtuuq NWA management plan.

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Number in Party: 63
Location-Region: North Baffin

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

Summary: Polynyas are large areas of open water in the ice cover of the Arctic seas, that serve as feeding, mating, spawning and overwintering grounds for key species of marine birds and mammals. The North Water polynya is among the most biologically productive areas north of the Arctic circle. It is located at latitudes that will be impacted early and most strongly by the present trend in global warming. The functioning of the north water ecosystem and its potential response to global warming are poorly understood. The project will bring together Canadian and foreign experts in Arctic oceanography to conduct the International North Water Polynya Study. The expeditions will enable scientists to study and model the climatic and oceanographic mechanisms of formation of the North Water, the biological production within and around its ice boundaries, and the fate of this production in the ocean. The network will help federal agencies such as the Department of Fisheries and Oceans and Environment Canada fill their mandate of monitoring and predicting the impact of a changing environment on the life and economy of populations of Nunavut.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **Indigenous Ecological Knowledge of the Inuit: Application for Studying Climate and Climate Change**

Summary: The objective is to document Inuit perceptions and understanding of climate and climate variability; to document how Inuit hunting patterns, methods, technologies, and locations have adapted to climate variability in the past; and to identify the potential of Inuit response to effects of future (predicted) long term climate change. The expected result is a documentation of Inuit indigenous knowledge of climate and a framework for incorporating this knowledge into scientific research of climate and climate change.

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Number in Party: 2
Location-Region: North Baffin

Project Title: **Postglacial Vegetation and Climate History of the Central Arctic Islands**

Summary: This research is concerned with the analysis of climate changes in the arctic and how these impact the vegetation. A series of lakes are sampled, sediment cores are collected and the pollen extracted form the cores. From the samples, the researchers can tell how the vegetation has changed in those regions during the past several thousand years. By sampling lakes across the arctic, the researcherw will be able to trace the migration of the different plants through time. This may help to understand how the arctic vegetation may respond to future climate changes.

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Location-Region: North Baffin

Project Title: **Hybridization and Genetic Variation in Arctic Grasses: Molecular, Morphological and Ecological Evidence**

Summary: The researchers will analyze and compare the DNA of different species of arctic grasses in order to define species genetically and understand their relationships and origin. The two genera under study, *Poa* and *Puccinellia*, are important ecologically as indicator species of disturbed environments. The researchers intend to test the hypothesis of hybrid origin of several *Poa* taxa using molecular techniques combined with field observations on reproductive biology, ecology and distribution.

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Location-Region: North Baffin

Project Title: **Biostratigraphy of Tertiary Vertebrate Locality at Strathcona Fiord**

Summary: The objective of this study is to add to our knowledge of the vertebrate found from a beaver-pondsite near Strathcona Fiord. This will be accomplished by collecting bones and other fossils in order to better understand: evolutionary relationships of previously unknown Pliocene vertebrates in the Arctic; a unique "boreal forest" margin environment that existed in Pilocene time; and the specific geological age of the deposit.

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Location-Region: Keewatin

Project Title: **Western Churchill Mapping Program: Quaternary Geology Component**

Summary: The main objective is to examine the Quaternary geology in the Western Churchill geological terraine which encompasses that part of the district of Keewatin extending from 90 - 100°W longtitude and 62-64°N latitude, by focusing on specific areas of geological significance and mineral potential. Detailed surficial geological mapping and till geochemical sampling in the greenstone belt outcropping in the Angikuni Lake area will provide: 1) information on regional ice flow history in the area; 2) information on the distribution, nature and significance of Quaternary sediments overlying bedrock; and 3) information on areas of potential mineralization.

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Number in Party: 5
Location-Region: North Baffin

Project Title: **Causes and Consequences of Biodiversity Change in High Arctic Tundra**

Summary: The intent is to continue long-term studies of effects of climate change scenarios on high arctic tundra systems and to begin new research to determine causes and consequences of biodiversity change in arctic tundra. This first phase of the research will concentrate on the causes of biodiversity change, including impacts of global change, increased nutrient availability, and effects of grazing animals.

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Location-Region: North Baffin

Project Title: **Evolutionary Divergence of North American Rock Ptarmigan**

Summary: The objectives are to: 1)determine the amount of genetic variation within and between populations, and relationships between subspecies; 2) test the hypothesis that ptarmigan persisted in several refuges during the last glaciation by inferring patterns of postglacial colonization from genetic data. This research focuses on genetic analysis of all North American subspecies of rock ptarmigan.

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Number in Party: 7
Location-Region: Keewatin

Project Title: **Geological Evolution of the Yathkyed Lake Area**

Summary: The purpose of this research project is to continue 1:50,000 scale mapping in order to evaluate the potential for hosting base and precious metal deposits. Analysis of the chemical characteristics of the rocks, and dating of samples will be undertaken in order to determine the geological evolution of the area.

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Location-Region: North Baffin

Project Title: **Mercury in Arctic Lakes**

Summary: The purpose of the project is to: 1) investigate effects of various physiochemical and biological factors on the speciation and bio-availability of mercury in different northern lake environments; 2) determine whether vertical variations in the mercury content of sediments are due primarily to temporal variation in mercury loading or to postdepositional remobilization and redistribution of mercury; and 3) estimate, if possible, the relative importance of local and distant sources of the mercury deposited in the lakes.

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Location-Region: North Baffin

Project Title: **RADARSAT Applied to Mapping the Barnes Ice Cap**

Summary: The objective is to obtain ground truth information on a section of the Barnes ice cap margin as a basis for interpreting concurrent data

from the Radarsat satellite. The end product will be an improved capability for identifying the ice cap margin in relation to morainal features.

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Location-Region: Kitikmeot

Project Title: **Fish Collecting in the "George" and "Goose" Lake Areas and Sampling for Fish, Bethos, Plankton and Vascular Plants**

Summary: The researchers will collect fish in the "George" and "Goose" lake areas in the upper Western River system which flows to Bathurst Inlet. The lakes will be sampled for fish, benthos, plankton and vascular plants while the inlet and outlet creeks will be sampled for fish, benthic invertebrates and periphyton.

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Location-Region: North Baffin

Project Title: **Project Overview and Environmental Evaluation for the Eclipse Project**

Summary: The objective of this program is to collect, compile, and present in a document a project overview and initial environmental evaluation for the development of the eclipse deposit. The document shall 1) provide information that allows government regulatory agencies and northern based organizations to reach a credible environmental screening design; 2) satisfy the requirements of the Canadian Environmental Assessment Act; 3) assist in securing land use permits and water licenses for all aspects of the eclipse development; and 4) provide the necessary information in preparing the project overview and environmental evaluation which would be *definsible* in professional and public review forums in the event this is required in the future.

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Location-Region: Keewatin

Project Title: **Bioprospecting for Entomopathogenic Fungi in Canada's North**

Summary: Having previously found entomopathogenic fungi in more central regions of Canada, the researchers are now interested in discerning whether certain species vary in their genetic makeup in a north-south line. They are also interested in the possibility of isolating a gene linked to cold tolerance and believe that northern samples would aid this search. Eventually the development of an agricultural application is desired.

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Location-Region: North Baffin

Project Title: **Role of Sound in Ringed Seal Navigation and Disturbance**

Summary: The objectives of this project is to investigate behavioral responses of ringed seals to noise disturbances, the role of sound in ringed seal navigation, and the under ice foraging behavior of ringed seals. Specific objectives are: 1) to determine the short-term behavioural responses of ringed seals swimming under shore-fast ice to a variety of human-made sounds; 2) to determine long-term effects of distrubance to ringed seals; 3) to test the hypothesis that ringed seals are sensitive to the interaction of ambient sounds and the ice cover, and that they use that information in locating breathing holes in the dark; and 4) to test the hypothesis that ringed seals forage on zooplankton and arctic cod during repeated dives to the same depth during the breeding season.

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Location-Region: Kitikmeot

Project Title: **Bioaccumulation of Organic Chemical in the Lichen-Caribou-Wolf/Human Food Chain of the Northwest Territories**

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

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Location-Region: Kitikmeot

Project Title: **Surficial Geology Mapping, Slave Province, NT**

Summary: The intent is to map, identify, and interpret late quaternary unconsolidated deposits relating to the last glacial episode. The researchers will reconstruct depositional environments as well as establish sea level and ice flow history on a local and regional scale. In addition, they will collect baseline geochemical data and lithological data in NTS 760 as an aid to land use planning and mineral exploration.

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Location-Region: North Baffin

Project Title: **The Study of Environmental Change, Truelove Lowland, Devon Island, NT**

Summary: The purpose is to develop proxy indicators of past environmental changes in the Truelove Lowland using selected chemical and biological records preserved in the lake sediment. The researchers will examine factors affecting biological productivity within the various water bodies covering much Lowland to provide a basis for evaluating the record of environmental change in lake sediments. As well they will monitor mass transfers within the soils in typical Truelove Lowland lake catchments in order to establish relationships between on-going processes of soil formation with these catchments and the characteristics of sediments being deposited in the lakes. In addition, the researchers will examine the interactions between the present factors affecting soil development in the Lowland and their effects on the present soil distribution.

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Location-Region: North Baffin

Project Title: **Ice Core Analysis and Glacier Mass Balance**

Summary: Glacier mass balance measurements allow determination if ice caps are changing in size, in addition, they accurately monitor any changes that are occuring either in snow accumulation or summer weather. Objectives include: 1) to determine if ice caps in the Canadian archipelago are growing and shrinking; 2) to use glacier records to determine if summers and winters are getting warmer or if the snowfall is increasing or decreasing; and 3) to collect snow samples to discover types of pollution.

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Location-Region: North Baffin

Project Title: **Mechanisms Mediating Freezing Tolerance in Arctic Invertebrates**

Summary: The objectives are: 1) to improve the understanding of mechanisms underlying freezing survival of invertebrates; 2) to provide methods of cryopreservation for uses in biomedicine, agriculture and industry; 3) to establish a link between research in cryopreservation systems and invertebrate models; 4) to contribute to the knowledge of invertebrate systems by investigating species that survive at the physiological limits to life.

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Location-Region: North Baffin

Project Title: **Paleoclimatic Reconstruction from Varied Lake Sediments, Nicolay Lake, Cornwall Island, Nunavut**

Summary: The purpose is to collect lake sediment to aid in providing a long record of past climate conditions from the central High Arctic. Lake sediments that contain yearly structures will be used to measure summer runoff in the Nicolay Lake catchment for the past several thousand years. Sediment will be analyzed to determine how sediment accumulation is related to summer weather conditions and how processes in the catchment have affected sedimentation rates.

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Location-Region: North Baffin

Project Title: **The Ecological Relationship Between Pond Inlet Inuit and Narwhal (Monodon monoceros)**

Summary: Objectives of this research include: investigating the cultural and ecological relationship between Pond Inlet Inuit and narwhal. It is a continuing investigation of the relative value and importance of narwhals to Pond Inlet diet and cutlure. The research intends to reveal that Pond Inlet Inuit play an extremely significant role under a

variety of opportunities and constraints, and to differing extents in their relationship with this renewable resource.

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Project Title: **HAUGHTON-MARS 97 (HM-97)**

Summary: The purpose is to study the Haughton impact structure, Devon Island, as a Mars analog. Its polar setting and geologic history of the crater make it exceptionally well suited for Mars related geological and exobiological research. 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.

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Location-Region: North Baffin

Project Title: **Wenlock and Ludlow (Silurian) Graptolites of Arctic Canada**

Summary: The initial objective of the project is the collection and recovery of a large fauna of upper Wenlock and Lower Ludlow graptolites from three sections,

one from the south of Ballie Hamilton Island, and one each from northwestern and northeastern Cornwallis Island. These faunas, in conjunction with previous collections will be studied from the viewpoint of taxonomy, followed by further refinement of their biostratigraphy and evolutionary development. This study will hopefully shed more light on the extinction and evolution process.

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Location-Region: North Baffin

Project Title: **Paleozoic Plants from Axel Heiberg and Ellesmere Islands, Canadian Arctic Archipelago**

Summary: Objectives include: 1) to collect and identify fossil plants of Carboniferous age form Axel Heiberg and Ellesmere Islands; 2) to reconstruct the regional paleoenvironement, paleovegetation, and paleoclimate based on the Carboniferous and Permian floral assemblages and to determine the taxonomic diversity of the fossil floras and compare them with floras of a similar age from Russia, Europe, Alaska and Greenland; 3) to determine which of the Carboniferous plant localities produce the most diverse and best-preserved fossils for detailed study in following years; 4) to recognize spatial and temporal plant distribution patterns between the Arctic Europe and Asia, and determine if any relationship exists between the floras of the Sverdrup and Pechora sedimentary basins; and 5) to determine the relationship between vegetation change and glacially induced climate change.

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Location-Region: North Baffin

Project Title: **Geology of the East-Central Prince of Wales Island and Adjacent Smaller Islands**

Summary: The researcher will compile unpublished GSC and industry data in the area to produce a geological report and two 1:250 000 scale geological maps. The purpose of the field work is to check and supplement the existing data. Results will be published as a GSC bulletin.

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Number in Party: 6
Location-Region: Keewatin

Project Title: **Surficial Mapping Studies in the Keewatin Region**

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 in 3 targeted areas, to enhance our knowledge of the history and composition of the surficial deposits and to develop drift prospecting methods as an aid for mineral exploration. The major products will be ice flow indicator maps at 1:125,000 scale and detailed surficial geology maps at 1:50,000 scale.

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Location-Region: South Baffin

Project Title: **Lake Sediments and Environmental History of Baffin Island**

Summary: This project is a continuation of previous research aimed at understanding the climatic history of Baffin Island by the analysis of dated cores of sediment raised from lake bottoms. The researchers sampling in 1996 suggests that the oldest lakes found to date are situated on the Mitten Peninsula north of Merchants Bay, but they require further samples to verify this as well as from Padloping Island and in the Canso Channel region.

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Location-Region: Kitikmeot

Project Title: **Habitat Characteristics of the Calving Area of the Bathurst Caribou Herd**

Summary: The objectives are to systematically document distribution and abundance of plant species on and near calving grounds of the Bathurst caribou herd. As well it is to conduct experimental studies of vegetation by experimentally manipulating snowmelt and nutrients and to stimulate feeding activities by caribou. In addition, the researchers will conduct observational studies of caribou behaviour in the vicinity of calving grounds and will set up and collect climate data from two automated weather stations.

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Project Title: **Hope Bay Belt Project - Environmental Baseline Study**

Summary: The objective is to collect baseline aquatics and terrestrial environmental data. This data will supplement past data sets and will be used to assess background conditions in the Hope Bay Belt project area, along a proposed winter road, and in the Roberts Bay area.

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Location-Region: Kivalliq

Project Title: **Environmental Baseline Studies of the Aquatic Resources and Habitat in the Meliadine Lake Project Area, Nunavut**

Summary: In this research project fish will be captured using a variety of methods including: gill nets, fyke nets, backpack electrofishing, and angling. Fish will be weighed, measured; non-lethal aging structures removed and fish grater than 250mm in length will be tagged with floy tags. 20 arctic grayling and 20 arctic char will be tagged with radio telemetry tags which will be monitored over a two year period to determine seasonal movements and habitat use areas. Water and sediment samples will be taken from the lakes being studied and analyzed for a variety of metals, organic compounds and general water quality constituents.

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Location-Region: Kitikmeot

Project Title: **Jericho Diamond Project Aquatic Studies Program**

Summary: The purpose is to collect baseline information on aquatic biological systems in preparation for possible mining development.

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Location-Region: Kitikmeot

Project Title: **Environmental Baseline Survey of Echo Bay Mines Ltd. Ulu Study Area**

Summary: This project will continue to assess the status of fisheries resources in the lakes and streams in the Ulu Lake Project Area. In addition to fisheries sampling, water samples will be obtained from several lakesand streams. Stations may be established on the outlet stream from the lake and along several of the proposed winter road routes which were examined in 1996 and are to be reassessed to determine early spring use by fish and habitat conditions at stream crossings. Bathymetric measuring of lakes examined in 1996 will be undertaken.

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Location-Region: Keewatin

Project Title: **Geology of Archean and Proterozoic Supracrustal Rocks, Kaminak Lake/Tavani Area**

Summary: The objectives are: 1) to map the bedrock geology of selected portions of the Kaminak Greenstone Belt; 2) to enlarge the database of geochronological and geochemical data for this belt; 3) to decipher the Archean and early Proterozoic geological history of the Kaminak-Tavani area; 4) to constrain the locations, types and development of mineral resources in the area.

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Location-Region: North Baffin

Project Title: **Implementation of Clean-up Plans and Further Delineation of Contamination at Baffin Sites**

Summary: The Analytical Services Unit has been requested by DIAND to conduct environmental investigations of abandoned DEW Line sites in the Northwest Territories. Location, identification, and excavation of areas containing contaminants with inorganic elements and organochlorines will be identified. Personnel will remove and conduct confirmatory sampling of the forementioned areas.

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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: Objectives include: 1) to assess the environmental significance of spring discharge at Expedition Fiord; 2) to determine the nature of hydrolic activity, including groundwater source and residence time; 3) to investigate the geomorphic impacts of perennial spring discharge; and 4) to model Saline groundwater flow through permafrost and to assess its significance in terms of biologic activity.

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Location-Region: Nunavut

Project Title: **Delineation of Pelly Bay (CAM-4), Hall Beach (FOX-M), and Cape Dyer(DYE-M). Confirmatory testing of Cambridge Bay (CAM-M) and Cape Hooper(FOX-4)**

Summary: The intent is to delineate areas known to have been impacted and to investigate areas of suspected impact at Pelly Bay, Hall Beach and

Cape Dyer. At Cambridge Bay the researchers will carry out confirmatory testing on all areas where soil excavation has taken place to ensure that excavated areas can be declared "clean". At Cape Hooper they will delineate contaminated and suspected contaminated areas.

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Project Title: **Arctic Insect Diversity and Global Change: the ITEX Program**

Summary: The objective is to help determine whether OTC's have an effect on insect-pollination and plant reproduction. The researcher plans to establish insect traps in 3 different plant communities at Alexandra Fiord. Both types of traps will be placed in three OTC's and three unmanipulated control plots: wet sedge meadows, dry hummocky tundra and semi polar desert(on a dome above the fiord). Continuing with the very promising theme of cryoprotection versus desiccation resistance and tolerance established in the winter moth in Victoria and willow sawflies in the western Arctic, the researcher will extend this concept to a wider variety of taxa in the high eastern Arctic.

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Project Title: **1997 Field Evaluation of Aquatic Effects Monitoring Methods to Determine Mining Effects**

Summary: At the Lupin site, the AETE study focuses on bottom-dwelling invertebrates (clams, insect larvae), other animal life, and fish in Contwoyto Lake. The researchers will be collecting samples of bottom-dwelling invertebrates and sediments using a sampling device known as a Ponar grab. Sediment and fish samples will be collected near the point where Lupin Mine water is discharged. For comparison, samples will also be collected at a site in another part of Contwoyto Lake (most likely South Bay) that is not affected by mine discharge water. The results from the AETE study at Lupin mine and the other three sites in Canada will be used to form future regulations governing the environmental effects of discharges from mines across Canada.

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Number in Party: 4
Location-Region: North Baffin

Project Title: **Hydrology and Dynamics of a High Arctic Glacier: John Evans Glacier, Ellesmere Island**

Summary: The Project's overall aim is to investigate the dynamic response of arctic glacier systems to recent and future climate change. The study has 3 main components: Glacier mass balance, Glacier hydrology, and Meltwater chemistry.

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Number in Party: 3
Location-Region: North Baffin

Project Title: **Genetic Biogeography of Mielichhoferia (Musci)**

Summary: The general purpose of this research is to assess the role of glacial refugia as reservoirs of genetic variability in plant species that persisted through the last glacial advance in arctic North America. In addition, to estimate the frequency and pattern of dispersal between arctic and more southerly areas in Canada and the United States. The work will focus on three highly disjunctive species of the moss genus, *Mielichhoferia*, but other species, especially in the genus *Pholi*a, will also be investigated in order to determine if patterns observed in *Mielichhoferia* are unique to those taxa or result from historical events that have affected many arctic alpine plants. Collections from Ellesmere Island will complement plants already collected from sites in the US and southern Canada, and will be supplemented by plants collected in Alaska and the Yukon Territory.

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Number in Party: 2
Location-Region: Kitikmeot

Project Title: **Comparison of the Stream Algae in Three Drainage Basins in the Central Arctic near Cambridge Bay**

Summary: This research is a continuation of a previous survey of stream algae of the tundra region of North America. To date the researcher has sampled 234 stream reaches from Toolik, Alaska to south west Greenland. The objective of this research is to test local patterns of colonization of stream algae in four mid arctic basins in the central arctic.

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Number in Party: 1
Location-Region: Kitikmeot

Project Title: **George Lake Project Environmental Baseline Study**

Summary: This environmental baseline study field program includes water and sediment quality, acid rock drainage, hydrology, bathymetry, meteorology, air quality, fisheries studies, soil and vegetation analysis, wildlife and wildlife habitat, traditional knowledge, socio-economics, abandonment and reclamation.

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Number in Party: 6
Location-Region: North Baffin

Project Title: **Water Quality and Environmental Change in Arctic Lakes and Ponds**

Summary: The main objectives of this research is to undertake a brief survey of water quality variables in a series of lakes and ponds near Wynniatt Bay on Northern Victoria Island. The main goal is to assess the present-day water quality of these sites. In addition, the participants will collect a small amount of lake and pond mud samples to determine the algal assemblages present in these sites.

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Number in Party: 11
Location-Region: South Baffin

Project Title: **South Baffin Multidisciplinary Project: Geological Survey of the Meta Incognita Peninsula**

Summary: The objective is the construction of a geoscientific database in Crooks Inlet-Markham Bay area to identify ancient mountain belt structures and terraine boundaries. Identification and dating of such structures will help elucidate the geological history of North America. As well, this portion of the southern Baffin Island will be profitably remapped to understand the histories of glaciation by ice flowing from Foxe Basin, Hudson Bay, Labrador and local ice cap complexities.

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Number in Party: 3
Location-Region: Kitikmeot

Project Title: **Coppermine River Basin Study: Fish and Water Sampling**

Summary: The aim is to obtain information on contaminant levels in fish and water near the mouth of the Coppermine River, prior to the start of any development in the upper basin. The data will serve as a benchmark against which any future development work can be compared.

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Number in Party: 4
Location-Region: Keewatin

Project Title: **WMC International Ltd. - Meliadine Gold Project Water Balance Study**

Summary: The purpose is to evaluate the overall water balance of the Meliadine River Basin and the detailed water balance of smaller local sub-basins and lakes in the immediate project area. The researchers aspire to learn sufficient detail to permit prediction of impacts on the local and basin hydrology of any future gold mine development, especially trailings ponds.

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Number in Party: 2
Location-Region: North Baffin

Project Title: **Multi-Year Observations of High Arctic Periglacial Processes and Related Quaternary History**

Summary: This research is a continuation of previous geomorphic and quatenary investigations. The aim is to further invesitigate the origin of plugs, a little known form of patterned ground, as well as multi-year movement observations at an instrumental gelifluction slope. The researchers intend to collect geologic materials (rock and/or soil).

Name: Washuta, Art

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Number in Party: 9
Location-Region: Nunavut

Project Title: **Engineering Site Investigation at Pelly Bay (CAM-4), Hall Beach (Fox-M), and Cape Dyer (DYE-M)**

Summary: UMA Engineering Ltd. has been requested by Defense Construction Canada and DCLM to conduct Engineering site investigations of former DEW line sites to prepare these sites for future clean-ups. UMA will survey areas of contaminated soil using the total station survey method. Inventory and inspection of buildings could involve the collection of some building components. Most data collection will be accomplished either visually, photographically or on video.

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Number in Party: 1
Location-Region: North & South Baffin

Project Title: **A Community of Learners: Inuit Students and their Teachers**

Summary: The objectives include: 1) to clarify from the perspective of high school teachers, students, and community members the purpose of schooling in the context of the newly created Nunavut; 2) to examine the way in which students and teachers perceive their roles and that of the other; 3) to explore alternative teacher/student relationships; and 4) to facilitate an action research project initiated by students, supported by teachers and researchers, which will involve locating knowledge for research to initiate social change.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **Contemporary Inuit Sculpture: Art of the Third Generation**

Summary: This project will seek to examine the art (sculpture) of the third generation and how it differs from the preceding generation of sculptors (their parents and grandparents). The young artists from both Cape Dorset and Clyde River will also be compared to illuminate similiarities and differences in styles, techniques, and content. Aesthetic influences, economic pressures and cutlural content will be some of the issues addressed in this research project.

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Number in Party: 1
Location-Region: Kitikmeot

Project Title: **Utkuhikhalingmiut Dictionary Construction**

Summary: The aim is to complete the construction of a dictionary and postbase list for the Utkuhikhalingmiut dialect for the use of the Nunavut Language Commission, Inuit communities in general (Gjoa Haven and Baker Lake in particular), as well as linguists interested in Inuktitut language. In addition, the researcher would like to find out what life is like now from the Utkuhikhalingmiut they knew 30 years ago in Chantry Inlet – how their ideas about human relationships and how to live have changed (or not changed). The researcher is also interested in how children are being brought up now with respect to the conditions of town life – what the difficulties and satisfactions are and how people are experimenting with old ways.

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Number in Party: 2
Location-Region: South Baffin

Project Title: **Enrollment, Attendance and Destination Patterns: Missionary Schooling Pangnirtung (1930-1956)**

Summary: The overall purpose is to obtain information through interviews with some 60 former pupils who attended the Anglican mission day school at Pangnirtung from 1954-56, on the nature of the schooling provided and its significance in terms of their post-school employment, parenting, and community activities.

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Location-Region: South Baffin

Project Title: **Linguistic and Cultural Immersion in Inuit Country: Collecting of Mythological Inuit Tales, Diary and Ethnical Photographs**

Summary: The objective is to collect mythological Inuit tales, recordings & translations told by elders, in order to publish in France. As well, to present "*Inuit Civilization, Yesterday and Today*" in an exhibition and to make an ethnical exhibition with photographs of nature, human occupations, tales, narration's, skin preparation, and people camping. The researcher will also write a diary and make drawings.

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Number in Party: 5
Location-Region: Kitikmeot

Project Title: **Kitikmeot Oral History Project**

Summary: The goal of this research is to record the oral histories of Elders in Cambridge Bay and various locations in the Kitikmeot. The intent is to use this information primarily to educate and possibly to apply it to current social, justice and curriculum programs in the community. As well, to preserve the information for future generations. In addition, the researcher will collect other materials such as photographs & research materials to be used in educational books and publications.

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Location-Region: South Baffin

Project Title: **Arctic People's Management of Natural and Cultural Resources**

Summary: The aim of the project is to look into the various ways that resources, specifically cultural resources, are being used to assert and to promote self-determination by the Inuit and Aleut people in Alaska, Canada and Greenland with reference to other circumpolar peoples. Focus will be on the kind of cultural factors that have been applied during the process of manifesting or achieving self-determination and the determinants that have impacted on this selection.

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Location-Region: South Baffin

Project Title: **Mapping Our World: An Exhibit Project On Children's Rights**

Summary: The objectives of this research are to ask questions about the realities of children's lives, provide some answers and engage Canadians (both young and old) in a discussion that increases the possibility of greater understanding and realization of children's rights internationally. The UN Convention on the Rights of the Child provides the main reference point for this research project.

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Number in Party: 14
Location-Region: North & South Baffin

Project Title: **Discourse Practices in the Baffin Region**

Summary: The goal of this research is to gather data on the languages used by various categories of Iqaluit, Kimmirut, and Igloolik residents in different speech circumstances. The researcher aspires to elicit, through interviews, the cultural meaning and social weight given to the use of this or that type of speech circumstance. The intent is to describe Inuktitut dialects spoken by Iqaluit residents.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **Inuit Images in Museum Collections in Southern-Produced Souvenirs and Tourist-Purchased Art**

Summary: The research objectives include: 1) to examine and understand the different stereotypes of Inuit that have been created in southern Canada; 2) to study the Inuit Art World as a vehicle of understanding these stereotypes; 3) to

examine all aspects of the Inuit art world: national collections, southern produced souvenirs, and finally any stereotypes that the art-purchasing tourists may have; 4) and to listen to and incorporate Inuit views on these stereotypes. While in the north, the researcher intends to speak to art-purchasing tourists and to seek out what conceptions that they may have about Inuit and the North. He will also involve research based in the south by examining the depictions of Inuit art at the Museum of Civilization, the National Gallery, and the Winnipeg Art Gallery within southern-produced souvenirs with Inuit images.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **The Preservation of the Inuit Language**

Summary: The purpose of this project is to examine how the Inuktitut language will be preserved in the future and what the possibilities are for its two writing systems - Syllabics and Roman orthography - to survive.

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Number in Party: 1
Location-Region: North & South Baffin

Project Title: **Relationship Between Traditional Inuit Justice and the Canadian Justice System in Sentencing**

Summary: The research project will examine the interaction between the actors and processes of the Canadian justice system, and the actors and processes of traditional Inuit justice when sentencing takes place for Canadian Criminal Code infractions in Pond Inlet, Nunavut.

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Number in Party: 1
Location-Region: Baffin

Project Title: **Inuit Approaches to Traditional Ecological Knowledge and Concepts of Property as it Relates to The Convention on Biological Diversity**

Summary: The aim is to examine how Inuit view the concepts of property and owernship as it relates to traditional ecological knowledge. As well, to analyse these views as it relates to existing intellectual property rights concepts, for purposes of how traditional ecological knowledge can be protected under future legislation.

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Number in Party: 2
Location-Region: North and South Baffin

Project Title: **Social and Economic Indicators in Pond Inlet**

Summary: This project shall serve as a follow-up to the research done by A. Huestis in 1987/88 on household income and population trends in Pond Inlet. Collecting new data and comparing it with that from ten years previous will provide a useful analysis of economic and social development patterns in the community. Knowing how household needs are met, or not met, will provide some indication of what programs and policies can be implemented at the

local, regional, and federal levels to best meet the requirements of the people of Pond Inlet.

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Location-Region: South Baffin

Project Title: **Community Wellness In The Northwest Territories: Indicators and Social Policy**

Summary: The purpose of this study is to draft, validate, and test a set of indicators resulting in an index of wellness, or overall condition, of each community in the Northwest Territories. This index of community wellness is proposed as a new approach to northern planning and policy setting.

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Number in Party: 1
Location-Region: Nunavut

Project Title: **Sakka**

Summary: The objective of this research is to document elders perceptions of the physical & metaphysical landscape, photograph the places & objects which had/have a spiritual significance, and to translate this material. The researcher will communicate these findings to: the people in the community where the data was gathered, as well as to the broader research community including ethnographers and anthropologists.

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Location-Region: North and South Baffin

Project Title: **Baffin Island Photographic Identification and Oral History Project**

Summary: The intent is to gain insight into the environmental, social, and economic context of the Inuit-European relations through conducting photo identification and oral history research with Inuit elders. The archival photographic collection, housed in the Peary-MacMillan Arctic Museum, Bowdoin College, consists of approximately 170 images taken by Donald McMillan between 1920-50. An important goal of the proposed project is to utilize the photographs as a vehicle to conduct oral history research on the nature of Inuit-European interactions from an Inuit perspective.

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Number in Party: 3

Location-Region: Kitikmeot

Project Title: **A Socio-Economic Impact Assessment of the Jericho Project**

Summary: The study will assess the impacts of the proposed Jericho Diamond Mine on the communities of Cambridge Bay, Kugluktuk, Umingmaktok, and Bathurst Inlet.

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Number in Party: 3
Location-Region: Kitikmeot

Project Title: **A Socio-Economic Impact Assessment of the George Lake Project**

Summary: The study is to prepare a socio-economic baseline of the communities of Cambridge Bay, Kugluktuk, Bathurst Inlet and Umingmaktok, from which the projected socio-economic impacts of developing a gold mine at the George Lake property can be estimated.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **A Review of Aboriginal Whaling**

Summary: The objective is to review: 1) the history of aboriginal subsistence whaling within the International Whaling Commission and other international, national and regional agreements; 2) the cultural and nutritional needs of aboriginal whaling communities; 3) the case for separate management categories for aboriginal and commercial whaling with respect to the sustainable development of aboriginal societies; 4) the number of cetaceans harvested through aboriginal hunts with respect to sustainablility; 5) killing methods and technology; and 6) a case study: Bowhead whale hunt by the Inuit of Nunavut.

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Number in Party: 4
Location-Region: Keewatin

Project Title: **Harvaqtuuq Place Names Project: Phase II**

Summary: This research intends to continue the collection of place names and associated meanings, stories and songs along the lower Kazan River. The main objective is to collect the maximum information about the Harvatuurmiut cultural landscape while the elders who lived in the area remain.

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Number in Party: 4
Location-Region: South Baffin

Project Title: **History of the Inuit Residential School System under the Federal Government of Canada from 1955 - 1967**

Summary: The aim is to record history of residential schools in Inuvik, Yellowknife, Churchill, and Chesterfield Inlet when they were administered by the federal government. Specifically looking at diet, language, clothing, curriculum, leisuretime, building structures, religion, and abuse.

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Number in Party: 2
Location-Region: Keewatin

Project Title: **Community Development and Social Work Practice in Nunavut 1955-1970**

Summary: The objective is to examine the establishment and consolidation of Inuit communities in the Canadian Arctic. This is a continuation of the research that led to publication of "*Tammurniit*." This study will extend that narrative into the sixties adding both interview and documentary material. The study will examine how the concept and practice of community development embodied the contradictions between emerging forms of Inuit representation and the expanded state sponsored presence of outsiders.

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Number in Party: 1
Location-Region: Baffin

Project Title: **Symbolic Landscapes and Enduring Ideas: The Politics of High Arctic Landscape Imagery**

Summary: The goal of this research is to examine historical landscape images laid down by artists of the British & American polar expeditions as a basis of comparison for images portrayed in twentieth century. As well, the researcher will analyse Arctic landscape imagery as a cultural and ideological hybridization of successive ideas and values, some of which are so enduring they contribute to misconceptions, distortions and illusions as related to publicity created for the tourism industry.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **Conversations with Abe Okpik**

Summary: The overall goal is to complete a life history of Abe Okpik from his childhood on the land in the Mackenzie Delta area through different episodes of his life including residential school, sanitarium, civil service in Ottawa, Member of NWT Council, and travels through the Arctic for implementing the NWTG surname project. The researcher will also edit the manuscript for publication.

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Number in Party: 1
Location-Region: North Baffin

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

Summary: The aim is to document the continuing value and significnace of sewing for Inuit seamstresses and community members. The researcher would also like to explore how sewing activities reflect Inuit cultural values and appropriate modes of behaviour. In addition, the researcher will examine particular ways of approaching work and time issues, the use of materials, and approaches to teaching and learning. As well, she will look at the varied forms of sewing that seamstresses undertake and how sewing activities have changed over time.

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Number in Party: 5
Location-Region: South Baffin

Project Title: **Arctic Dreams: Northern Tourism and Baffin Inuit Community Development (Phase II)**

Summary: The immediate goals are to expand the available database on visitors to the Baffin Region through the administering of a visitor exit survey, to be implemented at the Iqaluit airport. The second objective is to re-visit the community of Kimmirut as a follow-up to research conducted there in 1992 on the development of the Soper River area as a tourist destination. The major objective is to analyze the relative success of the GNWT effort to use tourism as a main component for local economic development.

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Location-Region: South Baffin

Project Title: **Youth And The Inuit Art Industry In Cape Dorset**

Summary: The study will examine some of the current aspects of young artists in the art industry of Cape Dorset. The goal of the research is to draw a meaningful portrait of the relationship existing between young artists and the art industry. It is anticipated that the research will contribute information relating youth perceptions and feelings of the art industry and their place in it.

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Number in Party: 4
Location-Region: South Baffin

Project Title: **South Baffin Place Names Project**

Summary: Objectives include: 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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Number in Party: 2
Location-Region: Kitikmeot

Project Title: **Oral Culture of the Inuit of the Kitikmeot Region**

Summary: It is the goal of this project to develop and put into use interactive, multimedia learning packages on CD ROM. The content of the packages may be described in broad terms as Inuit culture of the Kitikmeot Region (past & present). The purpose of this project is to present and preserve Inuit culture and knowledge in a fashion that makes it accessible to a large audience. This project aims to unite the preservation and enhancement of culture by providing an encyclopaedic volume of materail in a manner which demands the participation of the user/learner. The raw materail (video & voice recordings) may also be preserved as archival material.

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Location-Region: North Baffin

Project Title: **Inuit Zoological Knowledge, Beliefs and Vocabulary**

Summary: The research is part of long term study of various aspects of Inuit natural history, mainly the relationship between the Inuit and animals. Results have been partly published in French and Canadian journals and a book is in preparation. The information is needed in specific areas of Inuit ethnozoology, such as the inner classification of zoological species, caribou, bear, seal, walrus, and whale. This data will be studied in relation to other kinds of conceptual and semantic categories of Inuit culture. To study the evolution of attitudes towards animals, i.e. present-day representations and behavior in the context of hunting regulations system compared to the traditional subsistence hunting system. The zoological terminology has been systematically collected but more linguistic data is needed, especially in relation to animal anatomy and locomotion as well as that concerning hunting process and technology.

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Location-Region: North Baffin

Project Title: **Traditional Inuit Naming Practices and Shamanic System**

Summary: Part of a larger comparative program which explores gender, identity and name identity as important components in shamanism among Inuit, Chukchee (Siberia) and Shipibo (Amazonia). The 1997 fieldwork project in Igloolik proposes to complete, with Inuit assistants, transcription and translation of Inuktitut recordings on name gender and shamanism already done by the late S. Frederiksen (in 1947) and the researcher (between 1971 and 1994) in Nunavut. The researcher would also like to record comments from Rose Iqallijuq about this data. She is an old friend since 1971 and the oldest living person in Igloolik. She has known the Shaman Qimuksiraq, the main informant of Frederiksen and belongs to a shaman family.

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Location-Region: Nunavut

Project Title: **Determinants of Success Amongst Inuit High School Students in Nunavut**

Summary: The objective is to identify variables which may lead Inuit students to successfully complete high school or leave high school. The researcher is working to gain a better understanding of factors influencing graduation rates of Inuit students within the public schools in the NWT. Statistical tests will be used to identify what the most salient reasons are for graduating or for leaving school (i.e. home life, personal or social life, school experiences, personality). Selected case studies will also be analyzed.

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Location-Region: Kitikmeot

Project Title: **Ethnographical and Ethno-linguistic Research in Pelly Bay**

Summary: The researcher will collect ethnological data concerning subsistence activities and linguistic data of the local dialect at Pelly Bay. The research will focus on seal hunting methods, the importance of seal hunting to the people of Pelly Bay, and on the collection of linguistic data to make a syntax and compile a lexicon for the Pelly Bay dialect.

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Location-Region: Kitikmeot

Project Title: **Traditional Knowledge of Wildlife in Bathurst Inlet: Focus on the Calving Areas of the Bathurst Caribou Herd**

Summary: The goal of this research is to better understand traditional knowledge of wildlife, particularly the Bathurst caribou and calving grounds in the region surrounding Bathurst Inlet. The primary study partners will be from Umingmaktok and Kingoak. Kugluktuk and Ikaluktutiak will also be consulted as appropriate. This study aims to: 1) Involve and receive direction from communities at all stages in the research; 2) Develop research skills and provide training to community members to encourage future community projects; 3) Document traditional knowledge of wildlife in Bathurst Inlet region; 4) Develop a rich framework expert knowledge from which to better northern ecosystems; 5) Preserve and communicate traditional knowledge with a view towards improving wildlife management and minimizing impacts to land and resources in Nunavut.

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Number in Party: 1
Location-Region: South Baffin

Project Title: **Inuit's Contemporary Migrations: Moving from one Settlement to Another**

Summary: The intent is to study contemporary migrations of the Inuit of Nunavut. This project will examine the new migrations of individual family movements from one community to another, for various reasons and various lengths of time. It is important to look at how traditionally nomadic cultures adapt to new migration models, as sedentarian cultures have something to learn from them about dealing with spatial mobility and territorial identity.

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Location-Region: North Baffin

Project Title: **Interpreting Traditions in the Community of Igloolik and Iqaluit**

Summary: The researcher will conduct interviews with a group of Inuit women about the ways in which Inuit traditions are being defined, maintained and promoted in contemporary programs. The objective is to study the ways in which traditional knowledge is being integrated into health care, education, social services, and other programs in Arctic communities. By exploring the relationships between Inuit traditions and colonail change, it attempts to assemble a body of knowledge which will assist in the transfer, development, and implementation of community-based programs in Nunavut.

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Location-Region: Keewatin

Project Title: **Evaluating the Effectiveness of New Communication Technologies as Mediums of Instruction for multi-site workplace based instruction in Remote Northern Communities**

Summary: The objective is to evaluate the effectiveness of computer conferencing, electronic mail and the world wide web as mediums of instruction for multi-site learning opportunities for Canada's Northern residents and to expand Inuit adult's access to the world of learning through computer assisted learning. It is desired that this research will aid in developing a community that values lifelong learning.

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Location-Region: North and South Baffin

Project Title: **Inuit Subsistence Since the EU Sealskin Ban: Change in Greenland and Canada**

Summary: The intent is to examine how government policy in both Nunavut/Canada and Greenland have developed with regard to the support of Inuit harvesting and subsistence activities. The overall objective is to understand the way(s) official policy makers in Nunavut/Canada and in Greenland have responded to the stress placed on Inuit subsistence practice by the collapse of the sealskin market and to integrate this understanding within models of Inuit adaptation.

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Location-Region: South Baffin

Project Title: **Nunavut Hunter's Support Program: An Evaluation of the Early Years**

Summary: The Nunavut Hunters Support Program was established in 1995 as a mechanism for providing Inuit in the Baffin Region of Nunavut with monetary assistance to maintain traditions of hunting and to ensure the availability of country foods within the community. Recent reports suggest that there are local concerns about the effectiveness of the program in terms of the criteria used in the selection of hunters and the procedures used in the administration of the program. The objective of the proposed research is to evaluate the successes and the failures of the NHSP. Given the potential benefits to the traditional way of life and dietary needs of the Baffin Region, measures to increase the effectiveness of the program will be examined. An important aspect of this research will involve a comparison with the recently established NHSP and the twenty year old Income Security Program established under the James Bay and Northern Quebec Agreement. While no blueprint can exist for the design and administration of an Income security program, it is hoped that a review of the James Bay prototype will prove instructive to the evaluation of the NHSP.

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Location-Region: South Baffin

Project Title: **Incidents of Chalmydia Trachomatis and Viruses in Respiratory Tract Infections in Inuit Infants on Baffin Island**

Summary: The purpose of this study is to find which infections are responsible for respiratory tract infections in Inuit infants under six months of age admitted to Baffin Regional Hospital over a one year period. We would be looking for the most common infections in this age group, the first being a bacteria called Chlamydia Trachomatis which is transmitted to the infant at the time of birth and secondly, respiratory viruses which the infant can acquire anytime after birth. If Chlamydia Trachomatis is found, the advantage is that it can be treated with an antibiotic. It is our hope that if we have better

understanding of the cause of lung disease in young Inuit children, we may be one step closer to prevention.

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Location-Region: Nunavut

Project Title: **Evaluation of Treatment for Inuit Substance Abusers**

Summary: The aim is to develop an adapted, valid and translated assessment protocol for use in substance abuse treatment of Inuit. This multi-dimensional, psychosocial, paper-and pencil semi-structured interview protocol should help Inuit substance abuse counselors to better characterize the nature, severity and treatment implications of the substance abuse problems of their clients. As well, such an assessment protocol should help in future research that seeks to describe substance abuse problems and treatment effectiveness among Inuit substance abusers.

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Location-Region: Keewatin

Project Title: **Incidence and Causes of Mortality in the Keewatin District**

Summary: Through the use of records, the researcher will determine the age-standardized mortality rate, the age-standardized mortality rate by cause of death, the rate ratios of total and cause specific mortality rates for the Keewatin compared to the NWT and Canada. In addition, she will compare causes of death listed in registrations and charts to determine possible co-factors in the etiology of death, focusing on preventable causes.

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Location-Region: Keewatin

Project Title: **Clinical and Laboratory Features and the Role of a Titanium Dioxide Sunscreen in the Management of Actinic Prurigo in First Nations and Inuit Populations**

Summary: Objectives of this research include: 1) To determine the clinical and laboratory features of actinic prurigo (AP) in Canadian Inuit; 2) To determine if AP affecting Inuit has specific HLA associations; 3) To determine if AP in Canadian First Nations and Inuit share the same clinical and HLA features; and 4) To implement the use of titanium dioxide sunblock cream and determine its efficacy as a modality for treatment of patients with AP. At present, it is important to the note that a non-toxic medication for prevention of AP does not exist, and adequate protection from sunlight using clothing has not been effective or practical for many individuals.

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Number in Party: 6
Location-Region: Keewatin

Project Title: **Seroprevalence of Helicobacter Pylori Infection in Chesterfield Inlet**

Summary: Objectives of this research include: 1) To establish the seroprevalence of H. pylori infection in a Keewatin Community; 2) To correlate the results of serology with questionnaire responses regarding known risk factors for infection: socioeconomic status, housing conditions, and history of

gastrointestinal illness; and 3) To validate the whole blood of IgG fingerprick assay with the serum ELISA assay for H. pylori.

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Location-Region: Keewatin

Project Title: **The Keewatin Bronchiolitis Study**

Summary: Through use of records, the researcher will determine the incidence of bronchiolitis in the Keewatin during the 1995/96 epidemic season as well as the demographic, clinical and microbiologic features of Keewatin children who developed bronchiolitis during this epidemic.

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