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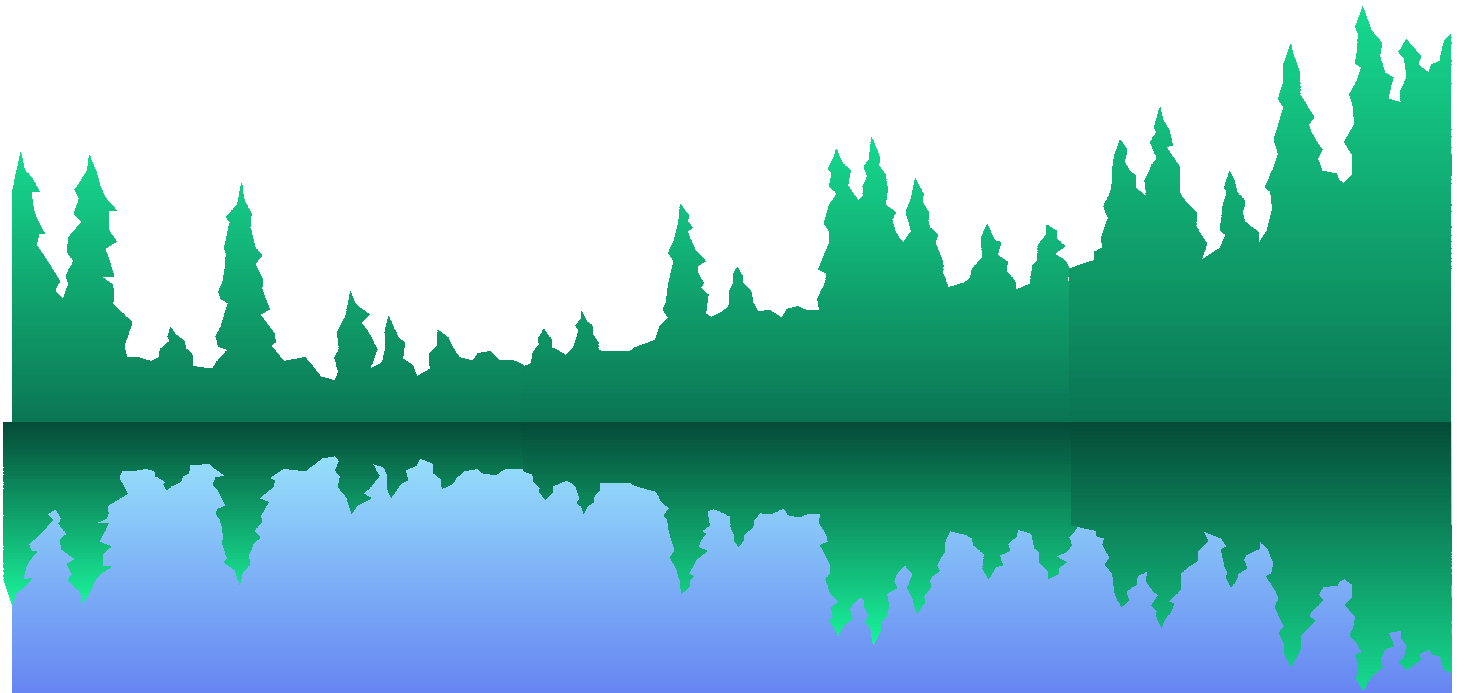
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# **COMPENDIUM OF RESEARCH IN THE NORTHWEST TERRITORIES 1994**

**Including: Wildlife Permits, Scientific Licences and  
Archeological Permits**

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**AURORA RESEARCH INSTITUTE  
AURORA COLLEGE**

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# **AURORA RESEARCH INSTITUTE**

1994

## **COMPENDIUM OF RESEARCH IN THE NORTHWEST TERRITORIES**

Including: Wildlife Permits,  
Scientific Licences, and  
Archeological Permits

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## ABOUT THE AURORA RESEARCH INSTITUTE

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The Science Institute of the Northwest Territories (SINT) was created by the NWT Legislative Assembly in 1984. In 1995, the SINT divided and merged with the Aurora College in western NWT and the Nunavut Arctic College in eastern NWT. The Science Institute West was renamed the Aurora Research Institute (ARI) in the spring of 1996.

The ARI's mandate is to improve the quality of life for western NWT residents by applying scientific, technological and indigenous knowledge to solve northern problems and advance social and economic goals.

The ARI is responsible for:

- ▶ licensing and coordinating research in accordance with the NWT Scientists Act: This includes work in the physical, social and biological sciences and in traditional knowledge.
- ▶ promoting communication between scientists and the people of the communities in which they work;
- ▶ promoting public awareness of the importance of science, technology and indigenous knowledge;
- ▶ fostering a scientific community within the NWT which recognizes and uses the traditional knowledge of northern aboriginal people;
- ▶ making scientific knowledge available to the people of the NWT;
- ▶ supporting or conducting research which contributes to the social, cultural and economic prosperity of the people of the NWT.

Aurora Research Institute  
Aurora College  
Box 1450  
Inuvik, NT X0E 0T0  
Tel: (867) 777-4029  
Fax: (867) 777-4264  
E mail: colinb@inukshuk.gov.nt.ca

June 5, 1996

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## FOREWORD

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The people of the Northwest Territories, our governing institutions and the private sector recognize the need for increased scientific and technological training. Training will allow northerners to adapt to the rapidly changing social and economic structure of the north. Partnerships are an effective way to meet this need. The Aurora Research Institute is one such partner and through the amalgamation with Arctic College research and development programs will be developed in partnerships with government agencies and community groups. The Aurora Research Institute works with these groups to identify research needs and ways to meet these needs.

Researchers are also partners in these endeavours. Through the licensing process, community groups are informed about proposed and current research in their area. Researchers can involve northerners in their research activities through school and community presentations and through employment opportunities for residents. Employment in a research project gives northerners an understanding of career opportunities in Science and Technology.

This compendium is a part of the Aurora Research Institute's mandate to involve northerners in science and technology. By participating in this compendium, researchers are partners in making research accessible to northerners.

David Malcom  
Director  
Aurora Science Institute

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## ABOUT THIS BOOK

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This Compendium is a summary of research licences/permits that were issued in the Northwest Territories during 1994. The information contained in this book is a collaboration between the Aurora Research Institute, the Prince of Wales Northern Heritage Centre, and the Department of Renewable Resources. The Compendium series began in 1986.

### LICENSING IN THE NWT

Under territorial legislation, all research in the NWT during 1994 required a licence/permit from one of three agencies, depending on the type of research being conducted:

- ▶ Prince of Wales Northern Heritage Centre - archaeology
- ▶ Department of Renewable Resources, Government of the Northwest Territories - wildlife
- ▶ Science Institute of the NWT - all other research in the NWT

Through the licensing process, researchers are informed of appropriate organizations, communities and other licensing/permitting agencies that should be contacted prior to conducting studies. Licensing ensures research activities are communicated to interested parties and provides opportunities for the exchange of information.

Although the Compendium is a summary of all licences/permits issued in the NWT by all three licensing/permitting bodies, it is not a list of actual research conducted. Verification that the research was completed must be made with the researcher.

### HOW TO USE THIS BOOK

The three main sections of this book contain the research descriptions. Each of these sections reflect a specific licensing agency and type of licence/permit issued. Within each section research descriptions have been grouped by subject, and listed alphanumerically by the principal researcher's last name. Refer to the Table of Contents for the specific page each section and/or subject area begins on.

#### **1. Reference Number**

The reference numbers shown in each of the Science Institute of the NWT's subject areas refer to the file number issued to a particular researcher. It allows cross referencing with research material that may be available on file or in the ARI library. The reference numbers of the other two agencies refers directly to the permit number given to each

researcher. When requesting information from any of these agencies on specific research outlined in this compendium please refer to the reference number in your correspondence.

## 2. Regional Abbreviations

Throughout the book reference is given to the specific region(s) that the research took place in. The regions identify Government of the NWT political boundaries (see Figure 1) and do not reflect present land claim areas nor those being negotiated. The abbreviations shown for each region are as follows:

<b>BA</b>	Baffin	<b>FS</b>	Fort Smith
<b>IN</b>	Inuvik	<b>KE</b>	Keewatin
<b>KI</b>	Kitikmeot		



### **3. Indices**

At the back of this book, you will find indices. They have been developed to help the reader cross reference material more easily. The numbers listed in the indices refer to the number listed with each research description, not page number.

#### AVAILABLE IN PRINT OR ON DISKETTE

The Compendium is available as a printed publication or on diskette. The diskette version is in a WordPerfect format and has limited search capabilities. Contact the ARI for further information regarding search capabilities and services.

Both the printed publication and the diskette are available from the Aurora Research Institute. We highly encourage photocopying of the printed publication to promote its distribution.

#### FOR MORE INFORMATION ABOUT THE RESEARCH LISTED IN THIS BOOK

Please Contact:

**Aurora Research Institute**

Box 1450  
Inuvik, NT, X0E 0T0  
Tel: (403) 979-4029  
Fax: (403) 979-4264

**Prince of Wales Northern Heritage Centre**

Box 1320  
Yellowknife, NT, X1A 2L9  
Tel: (403) 920-8084  
Fax: (403) 873-0205

**Department of Renewable Resources**

Wildlife Management Division  
Government of the NWT  
Box 1320  
Yellowknife, NT, X1A 2N5  
Tel: (403) 920-6060  
Fax: (403) 873-0293

#### SEND US YOUR COMMENTS

Whether you are a researcher or an interested member of the public, the Aurora Research Institute welcomes your comments and suggestions about the Compendium. Contact us by mail, fax, telephone or e-mail.



# Science Institute of the Northwest Territories Scientific Licences

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## Biology

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001                      Biology

**Ash, Gary R.**

R.L. & L. Environmental Services Ltd.

17312 - 106 Avenue

Edmonton, AB T5S 1H9

Reference #: 12 402 530

Region: KI        Location: Izok Lake area and the Coronation Gulf

Other members of team: J. Patalas, R. Pattenden

### **Fisheries Reconnaissance Survey of Streams to be Crossed by the Proposed Izok Lake - Coronation Gulf Road**

The survey focused on identifying streams used by Arctic grayling for spawning. The route was flown by helicopter and ground surveys were conducted at selected sites to assess stream habitat (eg. discharge, depth, velocity, substrate) and fish use through backpack electro fishing, seining, and/or angling. This survey information was used to provide a preliminary assessment of the impact of the proposed road on the fisheries resources.

---

002                      Biology

**Ashton, Sandra**

Faculty of Environmental Design

University of Calgary

Calgary, AB T2N 1N4

Reference #: 12 402 565

Region: FS        Location: Nahanni National Park Reserve

Other members of team: W. McCrory, S. Heremo, Wildlife Consultant, Advisor to Sandra

### **Bear Habitat Use Research Study**

The researcher identified plant types used by the bears and described the plant phenology (potential bear foods) in the area. A literature review of related research was also conducted. This research was done in order to determine if high capability bear habitat is available in surrounding areas.

---

003 Biology

**Babaluk, John**

Department of Fisheries and Oceans  
Freshwater Institute  
501 University Crescent  
Winnipeg, MB R3T 2N6

Reference #: 12 402 528

Region: IN Location: Sachs Harbour

Other members of team: J. Johnson

**Banks Island Fish Populations/Char Genetic Variation Project**

This was a continuing project to survey fish populations of lakes and rivers. In the past population studies have been conducted in the Fish and Raddi Lakes, the Sachs River and the Benard River. This year Middle and Kuptan Lakes were surveyed and if there was time Capron and Swan Lakes would be surveyed. The project also continued studies on the genetic and morphological variations in Arctic char from these lakes and the two rivers.

---

004 Biology

**Bong, Tom D.**

EnviResource Consulting Ltd.  
206 - 5720 Macleod Tr. S.  
Calgary, AB T2H 0J6

Reference #: 12 402 575

Region: FS Location: Peace, Athabasca and Slave Rivers

Other members of team: R. Kashino, T. Ethier, T. Jacobson and employees of EnviResource Consulting Ltd.

**Basin-Wide Fall Burbot Collection**

The researcher collected fish for analysis of contaminant body burdens. The sample size for each species was 10-15 of each sex at each sampling site. Fish were collected using set lines set in the evening and fished overnight. Blood samples were taken from live fish and then tissues were sampled and sent to labs for analysis. Gut contents were examined and the fish were aged.

---

005 Biology

**Clayton, Terry**

R. L. & L. Environmental Services Ltd.  
17312 - 106 Avenue  
Edmonton, AB T5S 1H9

Reference #: 12 402 531

Region: KI Location: Contwoyto Lake area

Other members of team: RL & L Employees

**Lake Trout Movements in Contwoyto Lake**

Researchers investigated lake trout movements in the vicinity of the Lupin gold mine at Contwoyto Lake. Tagging was done by conventional methods. Also included was the use of ultrasonic transmitters which were surgically implanted in the lake trout. Fish movements were monitored at intervals throughout the summer. The primary capture methodology was angling.

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006 Biology

**Conlan, Kathleen E.**

Research Division

Canadian Museum of Nature

P.O. Box 33443, Station D

Ottawa, ON K1P 6P4

Reference #: 12 402 514

Region: BA Location: Resolute, Alexandra Fiord

Other members of team: S. Blasco, Dr. A. Martel, Dr. R. Kvitek, and 7 assistants

#### **Ice Scour Disturbance and the Structure of Arctic Marine Benthic Communities**

Researchers acoustically profiled the seabed in the area of Resolute by side scan sonar in order to obtain an aerial view of the seabed and locate scours known from previous years and created over the last winter. Researchers then scuba dive on these scours and counted the large animals, collected small animals and measured the physical and chemical characteristics of the scours. This was to help determine what the scouring is doing to seabed animals and plants.

---

007 Biology

**Copland, Elizabeth**

Kivalliq Land and Sea Resources

Box 112

Whale Cove, NT X0C 0J0

Reference #: 12 402 570

Region: KE Location: Whale Cove

Other members of team: I. Copland, Dr. G. Platford, and community residents

#### **Qualitative Assessment of Local Terrestrial Plants and Identification of Potential Commercial Uses**

Samples of plants were collected by local residents and identified, some of which may have been sent away for identification. Elders were used as resource people to determine possible traditional uses of these plants. The researchers also experimented with the various land plants to develop appropriate products. If a suitable product was developed then each plant would be analysed for potentially harmful toxins.

---

008 Biology

**Copland, Ian**

Box 112

Kivalliq Land and Sea Resources

Whale Cove, NT X0C 0J0

Reference #: 12 402 559

Region: KE Location: the Whale Cove area

Other members of team: L. Druehl, Canadian Kelp Resources Ltd.

#### **Assessment of Seaweed Species in the Whale Cove Area**

The researchers conducted an inventory of the local seaweed stocks found within a 12 - mile radius of Whale Cove. Samples of seaweed stocks were collected from areas with different habitat (e.g. solid rock seabed, cobble seabed, etc.) to determine species type, and plant size and maturity. In addition, a collection device (called a 'drag') was used to gather larger samples for harvesting purposes.

---

009 Biology

**Copland, Ian**

Box 112

Kivalliq Land and Sea Resources

Whale Cove, NT X0C 0J0

Reference #: 12 402 559

Region: KE Location: Whale Cove

Other members of team: Kivalliq Land and Sea Resources employees, Canadian Kelp Resources Ltd. employees

**Phase 3 - Seaweed Commercialization Project: To Inventory and Test Harvest Seaweeds Found in the Whale Cove Area.**

Kelp resource assessment work involved sampling/surveying to determine the relative distribution and abundance of kelp within the Whale Cove area. Additional sampling/surveying was conducted during the West Hudson Bay Test Fishery under supervision of the Dept. of Economic Development and Tourism. Experimentation, with kelp farming and various processing techniques such as air drying, was also conducted.

---

010 Biology

**Cosens, Sue**

Department of Fisheries and Oceans

Freshwater Institute

501 University Crescent

Winnipeg, MB R3T 2N6

Reference #: 12 402 397

Region: BA Location: Foxe Basin

Other members of team: L. Dueck and two individuals from Igloodik and Hall Beach

**Abundance and Distribution of Bowhead Whales in Foxe Basin**

The researcher made daily flights from Igloodik to look for bowheads. The researcher estimated the relative abundance, assessed stock status and described the spring distribution and movements of the bowheads in Foxe Basin. The researcher also located a study site where a hydrophone array could be set up to count migrating bowheads in future years.

---

011 Biology

**Couture, Richard D.**

Rescan Environmental Services Ltd.

1111 West Hastings Street

Vancouver, BC V6E 2J3

Reference #: 12 402 496

Region: FS Location: the area of Thonokeid Lake

Other members of team: Personnel of Rescan Environmental Services Ltd.

**Environmental Study of the Aquatic Resources of the Thonokeid Lake Area**

The researchers continued their study on fish and other aquatic organisms found in lakes and streams of the Thonokeid Lake area. Muscles and liver tissues of fish were taken in order to assess levels of heavy metals. In addition, water chemistry data was collected.

---

012                    Biology

**Couture, Richard D.**

Rescan Environmental Services Ltd.  
1111 West Hastings Street  
Vancouver, BC V6E 2J3

Reference #: 12 402 496

Region: FS        Location: the area of Thonokeid Lake

Other members of team: J. Slater, S. Reed and Rescan technicians

**Environmental Study of the Aquatic Resources of the Thonokeid Lake Area**

Rescan Environmental Services Ltd. continued their study on the types of fish and other aquatic organisms found in the Thonokeid Lake area. Data on species type as well as their age, abundance and habitat were collected in order to assess for the presence of heavy metal contaminants. This study will be summarized in an environmental report to the Territorial Government.

---

013                    Biology

**De Groot, Bill**

Northern Forestry Centre  
Canadina Forest Service  
5320 - 122 St.  
Edmonton, AB T6H 3S5

Reference #: 12 402 566

Region: IN        Location: Inuvik, Norman Wells, Fort Providence

Other members of team: M. Maffey, C. Stefner

**Prescribed Fire and Wildlife Habitat Enhancement**

Dormant plant samples were collected in the field by the researcher for treatment in a lab experiment. Burning treatments were conducted in the lab where environmental growing conditions and the plant physiological state at the time of the treatment could be better controlled. This was done in order to model the effects of fire on two types of shrubs.

---

014                    Biology

**Den Dulk, Jan**

School of Engineering  
University of Guelph  
Guelph, ON N1G 2W1

Reference #: 12 402 573

Region: BA        Location: Igloolik

Other members of team: None

**Hydrological Investigations into the Fate of Sewage Infiltration - An Arctic Example**

The researcher conducted hydrological research in an attempt to determine the fate of sewage infiltration from the containment lagoon in Igloolik. Standard hydrogeological measurements were taken to determine the quality (and hopefully quantity) of the subsurface flow. This may have included taking water samples for analysis (nutrients and bacteria) at the University of Guelph.

---

015 Biology

**Evans, Marlene S.**

Environmental Sciences Division, NHRI  
11 Innovation Blvd  
Saskatoon, SK S7N 3H5

Reference #: 12 402 503

Region: FS Location: the southern coastal area of Great Slave Lake

Other members of team: R. Bourbonniere, D. Muir, L. Lockhart

**Persistent Organic Contaminants in the Great Slave Lake Ecosystem**

Researchers collected samples of sediment from the bottom of the Great Slave Lake at sites near Hay River, the Slave River delta and the channel region east of the Slave River. This data would allow a better understanding of how fast sediments are deposited on the lake bottom in various regions. Researchers also collected small animals (invertebrates) which are eaten by fish as part of an overall study which examines contaminants in the lake's ecosystem.

---

016 Biology

**Finley, K.J.**

10232 Summerset Place  
Sidney, BC V8L 4X2

Reference #: 12 402 525

Region: BA Location: Isabella Bay, Baffin Island, Cape Raper

Other members of team: Students from Clyde River

**Baffin Bowhead Monitoring Station, Igalirtuuq**

The study was conducted from the permanent station on Nipple Hill at Nuvukiapik. Surveyor instruments were used to document whale numbers and their feeding behaviour in Aqvik and Kater Valleys. The research team attached as many as four radio tags in order to learn more about the feeding behaviour and depth at which the whales are feeding. The team also photographed the whales and used a submarine equipped with cameras.

---

017 Biology

**Fortier, Louis**

GIROQ, Department of Biology  
Laval University  
Ste.-Foy, PQ G1K 7P4

Reference #: 12 402 560

Region: BA Location: Allen Bay in the Resolute Passage

Other members of team: M. Fortier, L. Michaud, B. Leblanc, additional students

**From Ice Algae to Sediments in the Frozen Arctic Seas: The Contribution of Direct Sedimentation and Zooplankton Grazing on the Vertical Flux of Carbon**

The researchers examined small marine organisms (algae, zooplankton and phytoplankton) to determine their influence on global warming. Carbon is necessary for the production of carbon dioxide (CO<sub>2</sub>), and increased levels of CO<sub>2</sub> in the atmosphere can contribute to an increase in the earth's overall temperature. The study examined how these small marine creatures reduce carbon levels in the water and, therefore, in the atmosphere as well.

---

018 Biology

**Gerrits, Martin**

Department of Zoology  
University of Guelph  
Guelph , ON N1G 2W1

Reference #: 12 402 561

Region: BA Location: Igloolik and Lailor Lake

Other members of team: J. Ballantyne, P. LeBlanc, J. Stuart, K. Barton, T. MacDougall, T. Gillis, R. McCart

**Metabolism of Arctic Fish and Invertebrates**

The researchers were interested in understanding how prolonged cold conditions and reduced food availability in winter affect char. Sea-run char must increase their fat levels so that they have enough energy stored for overwintering and reproduction. Research activities also included collecting fish and invertebrate specimens to make comparisons about cold tolerance and diet of these specimens and similar animals from warmer climates.

---

019 Biology

**Gillespie, L.J.**

Research Division  
Canadian Museum of Nature  
Box 3443  
Ottawa , ON K1P 6P4

Reference #: 12 402 572

Region: BA, KI Location: Iqaluit, Clyde River, Resolute, Eureka, Tanquary, Cambridge Bay

Other members of team: Dr. A. Aiken, L. Consaul

**Hybridization in Arctic Grasses: Evidence From Chloroplast and Nuclear DNA.**

The researchers collected living plants, 6-10 of each species from each collection site (less than 1 square km). In addition several plants of each species were pressed and dried to check identification. Photographs of the plants and their habitats were made in the field. The DNA of different species will be analysed to look at genetic similarity.

---

020 Biology

**Gould, William**

EPO Biology, INSTAAR  
University of Colorado  
Campus Box 450  
Boulder, Colorado 80309045

Reference #: 12 402 449

Region: KI Location: the Hood River corridor

Other members of team: 1-3 assistants

**Species, Vegetation, and Spectral Diversity of an Arctic Riparian Ecosystem**

The researcher characterized the kinds and numbers of plant species that make up the various plant communities along the Hood River. Five small temperature recording stations were set up along the river, recording hourly temperatures. This allowed the researcher to see the differences in summer temperatures and how it effects the plant communities. The researcher also tried to determine changes in vegetation from satellite and ground observations.

---

021 Biology

**Hebert, Paul D.N.**

Chair

Department of Zoology

University of Guelph

Guelph, ON N1G 2W1

Reference #: 12 402 333

Region: BA Location: the Northern Melville Peninsula and Northern Baffin Island

Other members of team: T. Little, J. Colbourne, L. Weider, J. Bull

#### **Distribution, Systematics and Genetic Structure of Arctic Zooplankton**

The research involved the use of helicopters with floats to sample the animal life present in most lakes on the Melville Peninsula and northwestern Baffin Island. Most of the work concentrated on the capture of zooplankton, small animals which form an important part of the diet of young fish. After the collections were made, the samples were taken back to the Igloodik laboratory, where they were sorted and frozen, then transported to the south and analysed (genetics).

---

022 Biology

**Henry, Greg**

Dept. of Geography

University of British Columbia

Vancouver, BC V6T 1Z2

Reference #: 12 402 421

Region: BA Location: Alexander Fiord, Fosheim Peninsula

Other members of team: M. Jones, J. Johnstone, M. Deforge, G. Jones, M. Boulrice, P. Lange, K. Trainor, T. Smestad

#### **Responses of Circumpolar Plant Species and Their Communities to Simulated Climate Change**

Researchers established field experiments in 5 plant communities to simulate climate change scenarios (1) no change; (2) warmer, longer seasons with earlier snow melt; (3) warmer growing seasons with later snow melt. The temperatures were increased in small open-topped greenhouses and the date of snow melt was changed by adding or removing snow.

Tagged plants of the major vascular plant species were measured for timing of life cycle events (ie: flowering).

---

023 Biology

**Henry, Greg**

Dept. of Geography

University of British Columbia

Vancouver, BC V6T 1Z2

Reference #: 12 402 421

Region: IN Location: the Anderson and Horton River area

Other members of team: Dr. B. Freedman, K. McLeod, S. Kesting, J. Hamilton, K. Barton

#### **Ecological Studies Along the Gradient From Subarctic Forest to Tundra**

The researchers wanted to determine the age of the isolated "tree islands" and how they manage to grow so far from the treeline. Researchers looked for old stems for carbon dating, and mapped the position of each stem. The age and growth rates of the trees were determined by counting and measuring tree-rings. This year, plant communities found on south-facing slopes down the Anderson River were studied. Rare, southern species of trees are present here.

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024 Biology

**Lesack, Lance**

Department of Geography  
Simon Fraser University  
Burnaby, BC V5A 1S6

Reference #: 12 404 485

Region: IN Location: the Mackenzie Delta area

Other members of team: C. Teare, K. Pipke, M. Cobbett, L. Smith

**Biogeochemistry of Lakes in the Mackenzie Delta**

Researchers evaluated the spatial variability of nutrient chemistry during the snowmelt period within the drainage network of the tundra stream ecosystem. Evaluation of the controls on nutrient chemistry and community metabolism in streams within the boreal forest/tundra ecotone were done through the measurement of algae and organic matter in the stream. Evaluation of the potential role of the Mackenzie Delta lakes as emitters of methane to the atmosphere was also done.

---

025 Biology

**McCrory, Wayne**

McCrory Wildlife Services  
Box 146  
New Denver, BC V0G 1S0

Reference #: 12 402 564

Region: FS Location: Nahanni National Park Reserve

Other members of team: S. Ashton, S. Hererro, Graduate Student (U of Calgary), Advisor-Environmental Design (U of Calgary)

**Bear Hazard Assessment in the Rabbitkettle Lake Area of Nahanni National Park Reserve**

The researcher conducted literature reviews on the subject. Park records, incidents and damage reports were also reviewed in order to produce management recommendations that would likely minimize bear and human conflicts. Field research was done in order to evaluate bear habitat and rate the habitat as low, moderate, high or very high potential for bear and human conflict. Human facilities and activities in the area were also evaluated.

---

026 Biology

**Morewood, Dean**

Department of Biology  
University of Victoria  
Victoria, BC V8W 2Y2

Reference #: 12 402 537

Region: BA Location: Alexandra Fiord, Ellesmere Island

Other members of team: self

**Temperature relations and interactions of arctic woolly-bear caterpillars and their insect parasitoids**

Surveys were conducted in order to: (1) document the life stages of the caterpillars (e.g. eggs, larvae, pupae and adults) during the summer; (2) count the number of caterpillars killed by insect parasites or parasitoids; and (3) document the timing of the insect parasitoids's life cycle. Finally, the effects of temperature on the development of caterpillars and parasitoids was examined.

---

027 Biology

**Osawa, Akira**

Forestry and Forest Products Research Institute  
Hokkaido Research Centre  
Hitsujigaoka 7, Toyohira  
Sapporo, Japan, 062

Reference #: 12 402 412

Region: FS,IN Location: the Fort Smith and Inuvik areas

Other members of team: N. Kurachi

**Jack Pine Forest Research**

The researcher conducted research on jack pine forests along the highways in Wood Buffalo National Park and also collected stem increment cores from black spruce trees around the latitudinal tree line near Inuvik. This research consisted of measurement of permanent plots, foliage distribution and light measurement, establishment of pruning experiment and stem core sampling near Inuvik.

---

028 Biology

**Pelletier, Clem**

Rescan Environmental Services Ltd.  
6th Floor, Coopers and Lybrand Building  
1111 West Hastings Street  
Vancouver, BC V8E 2J3

Reference #: 12 402 496

Region: FS Location: the Lac de Gras area

Other members of team: J. Slater, S. Reed, R. Marsland, P. Ladyman, S. Jaward, M. McCarthy, D. Howe, J. Wong

**Environmental Studies of the Aquatic Resources in the Lac de Gras Area.**

In project area streams, fish presence/absence and/or densities were obtained by electro fishing representative habitat. Benthic invertebrates and periphyton (stream algae) was sampled at stream sites to determine seasonal changes in composition, distribution and abundance. Lake limnology, plankton and benthic invertebrates were done by grab sampling, plankton tows, and profiling.

---

029 Biology

**Perin, Sofia**

Environmental and Resource Studies  
Trent University  
Peterborough, ON K9J 7B8

Reference #: 12 402 568

Region: BA Location: Hot Weather Creek, Ellesmere Island

Other members of team: R. Round, D. Lean, M. Amyot

**The Effects of UV-B Radiation on the Community of Arctic Lakes**

This study was done by setting up 6 enclosures in a lake or pond. Two enclosures were exposed to reduced UV-B levels, two other enclosures were exposed to enhanced UV-B levels. This involved the study of regular composition, pigment, and algal photosynthesis and end products in all 6 enclosures and in the lake.

---

030 Biology

**Reed, Shawna**

Rescan Environmental Services Ltd.  
6 th Floor, Coopers and Lybrand Building  
1111 West Hastings Street  
Vancouver, BC V6E 2J3

Reference #: 12 402 562

Region: FS Location: Prairie Creek

Other members of team: Rescan Employees

**Environmental Studies of the Aquatic Resources in the Prairie Creek Area**

In the project area creeks and streams, fish presence/absence and/or densities were obtained by electro fishing representative habitat and the setting of baited minnow traps. Each fish caught was identified, measured, weighed and sexed, and condition was noted. Furthermore, in order to assess background tissue metal levels, ten specimens of each species were sacrificed in order to obtain the required muscle and liver tissues for analyses.

---

031 Biology

**Reed, Shawna**

Rescan Environmental Services Ltd.  
6 th floor, Coopers and Lybrand Building  
1111 West Hastings Street  
Vancouver, BC V6E 2J3

Reference #: 12 402 562

Region: FS Location: Snare River

Other members of team: Rescan Employees

**Habitat Utilization and Fish Community Structure in the Snare River**

In this study fish presence/absence and/or densities were obtained by electro fishing representative habitat and the setting of baited minnow traps. When these two methods were not practical, gill nets, trap nets, and/or beach seines were employed. Each fish caught was identified, measured, sexed, and condition was noted. Ten specimens of each species from each site (up to 10) were sacrificed for background tissue metal levels.

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032 Biology

**Reed, Shawna**

Rescan Environmental Services Ltd.  
6 th Floor, Coopers and Lybrand Building  
1111 West Hastings Street  
Vancouver, BC V6E 2J3

Reference #: 12 402 562

Region: KI Location: Spyder Lake

Other members of team: Rescan employees

**Environmental Studies of the Aquatic Resources of Spyder Lake**

The researcher determined fish presence/absence and/or densities (number of fish per unit stream length) by electro fishing representative habitat (eg. pool, riffle, run) and the setting of baited minnow traps. When these two methods were not practical (eg. depth too great or flow too fast), gillnets and/or beach seines were used. The fish caught were identified, measured, weighed, sexed and the condition was noted. Tissues were analysed for metal levels.

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033 Biology

**Reimer, K.J.**

Head

Environmental Sciences Group

Royal Roads Military Collage

FMO Victoria, BC V0S 1B0

Reference #: 12 402 494

Region: IN, KI, BA Location: Atkinson Point, Horton River, Pearce Point, Clinton Point,

Other members of team: Dr. M. Dodd, Dr. WT Decence, Dr. J.S. Polard, Dr. H. Poll, Dr. S. Grundy, K. Johnson, J. Rogers, B. Barton, D. Pier, D. Oswald,

**Environmental Study of Abandoned DEW Line Sites**

The researchers collected soil/sediment, water, plant, and other biological samples to investigate small-scale variations of introduced substances; to examine larger variations in tundra and marine ecosystems; and to aid decision makers in identifying when and where remedial measures can be most effectively applied. This investigation was conducted on abandoned DEW Line sites to evaluate the effect of introduced substances on the environment.

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034 Biology

**Sheath, Robert**

Department of Biology

Memorial University

St. John's, NF A1B 3X9

Reference #: 12 402 571

Region: BA Location: Resolute, Eureka, Truelove, Bathurst Island

Other members of team: M. Vis

**Distribution and Physiological Adaptions of Stream Macro algae in the High Arctic**

Microscopic algae in tundra streams constitute the base of food chains in these habitats yet they are poorly studied. Their composition appears to be an extension of a portion of the temperate flora. The research was a continued survey of these species and an examination of their physiological adaptations to such a stressful habitat.

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035 Biology

**Sitinvar, Andreasi**

Arvirk Hunters and Trappers Association

General Delivery

Repulse Bay, NT X0C 0H0

Reference #: 12 402 574

Region: KE Location: Gore Bay, Repulse Bay

Other members of team: Members of the Arvirk HTA, Fishermen of Repulse Bay, Employees of Applied Environmental Services

**Test Commercial Arctic Char Fishery at Gore Bay, Repulse Bay.**

A commercial weir was installed and operated at Gore Bay for the purpose of conducting a test commercial Arctic char fishery. All fish were held in a holding pen until the quota (8000 lb.) was estimated to have been captured. The daily upstream migration of Arctic char were recorded until the quota was reached. Fish were then gutted, packed, and transported to the fish processing plant in Rankin Inlet, NT.

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036 Biology

**Smith, Thomas**

Pacific Biological Station  
Nanaimo, BC V9R 5K6

Reference #: 12 402 428

Region: BA Location: Cunningham Inlet

Other members of team: R. Andrews, Dr. D. St. Aubin

**Behavioural and Physiological Studies of Beluga Whales and Narwhal in the High Arctic**

This ongoing study since 1973 has described the population size and behaviour of belugas. UHF tagged animals have outlined the migratory routes and seasonal movements of the whales. The researcher used newly designed tags which were linked by satellite to relay position, dive duration and depth, and heart rate of the whales.

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037 Biology

**Stevenson, John**

Department of Renewable Resources  
General Delivery  
Coppermine, NT X0E 0E0

Reference #: 12 402 556

Region: KI Location: marine waters near 5 Kitikmeot communities & 1 Inuvialuit community

Other members of team: C. Adjun, J. Ashevak, D. Komayok, L. Coady, J. Hunter, R. Morrison, D. Hunter, S. Buchan, J. Kuneyuna

**Inshore Fishery Assessment and Training**

The Department of Renewable Resources, in consultation with Hunters and Trappers organizations, continued their survey of the types and qualities of marine species found in the waters near Holman, Taloyoak, Gjoa Haven, Cambridge Bay, Coppermine and Umingmaktok. The researchers were interested in knowing if there were sufficient shrimp, scallops, cod, clams, crab or turbot for supporting commercial harvests.

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038 Biology

**Suluk, Thomas**

P.O. Box 143  
Arviat, NT X0C 0E0

Reference #: 12 402 558

Region: KE Location: Arviat

Other members of team: A.S. Irkok, A. Kuksuk

**Maguse River Char Conservation Plan: Subsistence Harvest Survey**

The surveyor conducted household surveys using a questionnaire that was prepared by the Department of Fisheries and Oceans. The Arviat HTA reviewed the information and methods used for the study. A public relations campaign included a poster contest in the schools and discussions of issues through local radio programs and CB network. The posters would provide information on the survey.

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039 Biology

**Svoboda, Josef**

Department of Botany  
University of Toronto  
Erindale College  
Mississauga, ON L5L 1C6

Reference #: 12 402 126

Region: BA Location: Sverdrup Pass, Baker Lake

Other members of team: J. Elster, D. Nabert, T. So, S. Nimz, D. LeBlanc

**1. Initial Phase of Primary Succession Following Glacial Retreat 2. Secondary Metabolites in Arctic Willow 3. Photosynthesis and Respiration in Blue-Green Algae 4. Revegetation of Snow/Ice Landscapes During the Last Ice Age 5. Monitoring of ITEX**

The aim of the Sverdrup Pass Project was to learn how vegetation returned to the arctic realm after the retreat of the continental ice sheet (8000 years ago) and the prospect of the land becoming green if climate warms. The ITEX project was geared to the effect of climate warming on the vegetation. The snow-fence study at Baker Lake was concerned with the effects of long-lying snow deposited on both sides and its impact on the vegetation.

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040 Biology

**Vincent, W.F.**

Department of Biology  
Laval University  
Sainte Foy, PQ G1K 7P4

Reference #: 12 402 329

Region: BA Location: Lake Hazen

Other members of team: D. Lean, A. Quesada

**UV-B Impacts on the Microbial Food Web in High Arctic Freshwater Ecosystems**

There is increasing evidence that levels of solar UV-B radiation have begun to rise in the high Arctic. Little is known about Microbial life-forms in the ecosystems of Arctic lakes and rivers and their UV-B resistance. A sampling hole was drilled in the lake ice. The samples of zooplankton were studied by microscope. Samples of water and periphytic communities were also taken. Under water solar radiation was also measured.

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041 Biology

**Wein, Ross**

Department of Forest Science  
University of Alberta  
751 General Services Bldg.  
Edmonton, AB T6G 2H1

Reference #: 12 402 350

Region: IN Location: Inuvik area

Other members of team: T. Sweda and three students

**Forest and Forest Fire Studies in the Mackenzie Delta Ecosystem**

Since fire is the most wide spread agent of change in the northern forest, society should know how climatic warming will influence the force. The fire history of the Mackenzie Delta Region is known only through fire suppression records over the past 25 years. Spot checks on the landscape have been made, but records longer than 5-20 decades are not available. Tree ring approaches were used in this study and the Canadian Forest Fire Weather Index System used as a guide.

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# Contaminants

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042 Contaminants

**Chan, L.H.M.**

CINE, MacDonald Campus

McGill University

21, 111 Lakeshore Road

Ste. Anne de Bellevue, PQ H9X 3V9

Reference #: 12 408 102

Region: FS Location: Fort Resolution

Other members of team: O. Receveur, B. Masazumi

**Estimation of the Risk to the Inhabitants of Fort Resolution of Renal Impairment Related to the Long-Term Consumption of Traditional Food Contaminated by Environmental Cadmium**

The researchers collected food samples and analysed them for the presence of cadmium. The study was conducted in concert with H. Kuhnlein's study on food use patterns in Dene/Metis communities. Thus, cadmium levels in food was assessed in light of food consumption patterns in order to address the risks associated with consumption of foods containing cadmium.

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043 Contaminants

**Gregor, Dennis J.**

Waterloo Centre for Groundwater Research

University of Waterloo

Waterloo, ON N2L 3G1

Reference #: 12 404 350

Region: BA Location: the area of the Agassiz Ice Cap on northern Ellesmere Island

Other members of team: A. Peters

**Contaminant Deposition Measurements in Precipitation in the NWT**

There is only limited information on contaminant trends in arctic ecosystems. This long-term study examines the amounts of contaminants present in arctic ice caps. By taking core samples from ice caps, the researchers were able to measure the levels of contaminants that have been deposited by precipitation over many years. This study also improves our understanding of the many levels of contaminants that are currently being deposited in the Arctic.

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044 Contaminants

**Harbicht, Stephen**

Head, Assessment and Monitoring  
Environment Canada, NWT Office  
Box 370  
Yellowknife, NT X1A 2N3

Reference #: 12 402 468

Region: BA Location: Iqaluit, Brewer Bay, Cape Dyer, Cape Hooper

Other members of team: D. Bright and others, Royal Roads; L. Johnston and others, Environment Canada; Divers; S. Soloman and others, GSC

**The Extent and Pattern of Historical Ocean Disposal in Iqaluit, Brewer Bay, Cape Dyer and Cape Hooper**

This study was conducted from Canadian Coast Guard's icebreaker the Perrie Radisson. This study consisted of: a preliminary sidescan sonar survey to determine the distribution of material on the bottom; identification of objects using either a remote operating vehicle or divers in shallow water; and sampling of water, sediments and biota in the vicinity of selected objects. Some objects identified in the survey were recovered for examination.

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045 Contaminants

**Hermanson, Mark**

Academy of Natural Sciences  
1900 Ben Franklin Pkwy.  
Philadelphia, PA USA 19103-1195

Reference #: 12 402 332

Region: BA Location: Belcher Islands

Other members of team: Self

**Organochlorine Industrial Compounds, Pesticides and Mercury in Fish from the Belcher Islands Region, NWT, Canada**

Fish (most likely Arctic Char) were obtained either by purchase or by individual collection to analyse for chlorinated organic industrial compounds, pesticides and mercury. Few of these contaminants were ever used in the Arctic. They have been shown to travel to the Arctic through the atmosphere and accumulate in lake sediments and in fish tissues. An attempt was made to relate the level of contamination to age, size or type of fish.

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046 Contaminants

**Semkin, Raymond**

Environment Canada

867 Lakeshore Road

Burlington, ON L7R 4A6

Reference #: 12 404 350

Region: BA Location: Cornwallis Island

Other members of team: B. Strachan, M. Fox, M. Hanna, R. Neureuther, M. Mawhinney, S. Kinney, P. Amarualik, M. Alae, R. Rowsell, D. Jeffries

**Amituk Lake: Trace Organic Contaminants in an Arctic Aquatic System**

Amituk Lake and the east coast of Cornwallis Island was a research site for documenting the occurrence and movement of organic and inorganic contaminants from winter snowpack into a freshwater lake. Numerous tests for snowpack water content and chemistry were carried out before snowmelt began. Chemical and flow measurements were also taken at six streams and the lake outlet.

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047 Contaminants

**Usher, Peter J.**

Director, Research Division

Inuit Tapirisat of Canada

Suite 510, 170 Laurier Avenue West

Ottawa, ON K1P 5V5

Reference #: 12 410 449

Region: IN,BA,KE Location: Baker Lake, Tuktoyaktuk, Sanikiluaq

Other members of team: M. Stevenson, M. Demmer, D. Nakashima

**Meeting the Information Needs of Inuit Regarding Contaminants**

The researchers continued their interviews with community members on identifying contaminant issues and information needs related to those issues. Interviews were conducted with a wide range of individuals, including harvesters, elders, women, youth, and professionals. An appropriate communication strategy was developed in an appropriate cultural and social context.

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\* See also reference numbers 004, 015, 030, 031,098, 234-238,292, and 296 for other contaminant related research references \*

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# Fossils

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048 Fossils

**Basinger, James F.**

Department of Geological Sciences  
University of Saskatchewan  
Saskatoon, SA S7N 0W0

Reference #: 12 402 357

Region: BA Location: Bathurst Island

Other members of team: M. Kotyk, P. Gensel, S. Hill

## **Early Land Plants from 400 million year old Rocks of Bathurst Island**

The oldest known land plants are found in rocks of about 400 million years old. Rocks of this age are rarely found in North America. Recently, fossils from this critical interval have been found on Bathurst Island (preliminary work in 1993). The researchers explored other possible sites on central Bathurst Island. The fossils recovered will contribute to the understanding of early plant evolution and to the record of early life on land in North America.

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049 Fossils

**Butterfield, N.J.**

Department of Earth Sciences  
University of Cambridge  
Cambridge, UK

Reference #: 12 412 031

Region: IN Location: Mackenzie and Franklin Mountains

Other members of team: Dr. C. Nicholas

## **Burgess Shale - Type Fossils in the Mackenzie and Franklin Mountains**

The researcher conducted helicopter-based field work out of Norman Wells. This research entailed the documentation and collection of Mount Cap Formation Rocks (shales for fossils and biomarker geochemistry, limestone for isotope geochemistry). Much of the palaeontology was laboratory-based, using acid extraction techniques on very small samples. The documented material would be stored and catalogued with the Geological Survey of Canada.

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050 Fossils

**Chatterton, Brian D.E.**

Department of Geology  
University of Alberta  
Edmonton, AB T6G 2E3

Reference #: 12 404 086

Region: BA Location: Abbott R., Snowblind Cr., Cape John Dyer

Other members of team: Dr. J. Adrain

## **Trilobite Systematics and Event Stratigraphy of the Paleozoic**

Rock samples were collected for processing in the lab. Some of these rocks were processed for fossils (primarily silicified trilobites), which were photographed and described for classification purposes. The data gathered would then be used for understanding the ancient (350-450 million years ago) ecology and the correlation of these rocks. Levels were sampled in detail where there were extinctions followed by evolutionary radiations.

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051 Fossils

**Gagnier, Pierre-Yves**

Redpath Museum  
859 Sherbrook West  
Montreal, PQ H3A 2K6

Reference #: 12 404 502

Region: BA Location: Baillie Hamilton Island, Cornwallis Is., Cape Phillips

Other members of team: M. Wilson, D. Goujet, R. Thorsteinsson, T. Marss, S. Turner, D. Elliot

**Palaeozoic Microvertebrate Biochronology**

Collection in the field of paleontological sampling is done like geographical sampling, by breaking the rock with a hammer. Once collected, the micro-remains of vertebrate fossils are extracted with acid prepared in the laboratories. Carbonate rocks were processed with acetic acid (vinegar) or formic acid. Rocks with siliceous matrix were generally processed by dissolution of the bone with chloridric acid. Biostratigraphic correlation was made through fauna comparisons.

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052 Fossils

**Gardner, James D.**

Department of Biological Sciences  
CW 405 Biological Sciences  
University of Alberta  
Edmonton, AB T6G 2E9

Reference #: 12 412 042

Region: BA Location: Axel Heiberg, Ellesmere Island

Other members of team: B.A. LePage, T. Ogawa

**Permo-Triassic Vertebrates from Axel Heiberg and Ellesmere Islands, NWT**

The researcher examined the following geological localities and units: Sabine Bay (Permian) and Heiberg (Triassic) formations, northern Axel Heiberg Island and Blind Fiord, Blaa Mountain, and Heiberg and Sabine Bay and Svartevaeg formations, east-central Ellesmere Island. At each fossil site the researcher recorded relevant stratigraphic and sedimentological information and collected representative fossils for examination.

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053 Fossils

**Harrington, C.R.**

Canadian Museum of Nature  
P.O. Box 3443  
Station D  
Ottawa, ON K1P 6P4

Reference #: 12 412 041

Region: BA Location: Strathcona Fiord, Ellesmere Island

Other members of team: C. Kennedy, J. Tener, N. Rybczynski

**Biostratigraphy of a Tertiary Vertebrate Locality on Strathcona Fiord Ellesmere Island**

The researcher carefully trowelled and wet screened a peaty deposit to gather remains of Tertiary vertebrates, plant, and invertebrates remains in the beaver-pond site near Strathcona Fiord. This was done in an effort to better understand the paleoenvironment and the geological age of the deposit.

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054 Fossils

**Johnston, Paul A.**

Royal Tyrrel Museum

Box 7500

Drumheller, AB T0J 0Y0

Reference #: 12 412 029

Region: BA Location: Cornwallis Island and Ellesmere Island

Other members of team: A. Neuman, R. Campbell, Dr. G. Daoyuan, G. Phillips

**Silurian and Devonian Faunas - Arctic Canada**

The research team searched parts of Cornwallis and Ellesmere Island for fossils of ancient sea and land creatures that lived more than 400 million years ago. Of special interest are the remains of eurypterids (sea scorpions), giant armoured fishes, jawless fishes, molluscs and early land animals. The fossils will be used for new exhibits and educational programs at the Tyrrell Museum and the Fraser Ft. George Regional Museum.

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055 Fossils

**Kah, Linda C.**

Department of Earth and Planetary Sciences

Harvard University

24 Oxford St.

Cambridge, MA, USA 02138

Reference #: 12 412 034

Region: BA Location: the area of north Baffin Island near Pond Inlet and Arctic Bay

Other members of team: A.H. Knoll, 1 field assistant

**Carbonate precipitation in the Mesoproterozoic Society Cliffs Formation, Bylot Supergroup, on northern Baffin Island**

Characteristics of ancient sediments reveal information about the chemical, biological and physical environment within which these sediments were formed. By studying the patterns of rocks found in the north Baffin area, the researcher may discover how much of the formation of these rocks was due to the algae that lived in ancient oceans, and how much was due to the chemical makeup of the water. The researcher continued the study (begun in 1993) on these ancient reefs.

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056 Fossils

**Lenz, Alfred C.**

Department of Geology

The University of Western Ontario

London, ON N6A 5B7

Reference #: 12 412 039

Region: BA Location: Twilight Cr, Humphries Hill, Cape Manning, Snowblind Cr

Other members of team: E. MacDonald, J. Shaw, H. Shaw

**Taxonomic and Biostratigraphic Studies of Silurian (about 400,000,000 years ago) Graptolites (extinct organisms) and Radiolara (micro-organisms) of Central Arctic Islands.**

The researchers collected samples of shales and limestone at regular intervals (usually about every 1 metre or less). Samples were bagged and shipped back to the university for further study. This study will help researchers better understand the geological history of the Arctic.

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057 Fossils

**LePage, Ben A.**

Department of Botany  
University of Alberta  
Edmonton, AB T6G 2E9

Reference #: 12 404 424

Region: BA Location: Axel Heiberg and Ellesmere Island

Other members of team: J.D. Gardner, T. Ogawa

**Permian Plants of Axel Heiberg and Ellesmere Islands, Canadian Arctic Archipelago**

The researcher began a preliminary paleontological investigation of Permian age (about 250 million years old) sediments of the Sabine Bay Formation and the fossil plants contained within these deposits. The plants recovered were identified and compared to Permian floras from Russia, Greenland, and Europe. Localities yielding interesting or well-preserved specimens would provide a basis for future study. J. Gardiner looked for vertebrate remains.

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# Geology

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058                      Geology

**Anglin, C.D.**

Geological Survey of Canada

Rm. 679

601 Booth Street

Ottawa, ON K1A 0E8

Reference #: 12 404 510

Region: BA      Location: Cornwallis, Little Cornwallis and Bathurst Islands

Other members of team: R. Knight, D. Harvey

## **Mineral and Energy Resource Assessment and the Northern Bathurst Island Area**

The researcher examined and sampled mineral showings on Cornwallis, Little Cornwallis and Bathurst Islands. The areas were mapped (geological) and samples of other rocks were collected in order to determine their potential for additional mineralization. The researcher assessed the mineral and energy resource potential of the Northern Bathurst Island proposed national park area on behalf of DIAND and Parks Canada.

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059                      Geology

**Arne, Dennis C.**

Department of Earth Sciences

Dalhousie University

Halifax, NS B3H 3J5

Reference #: 12 404 497

Region: BA      Location: Otto Fiord on northern Ellesmere Island

Other members of team: one field assistant

## **Thermal and Tectonic History of the Sverdrup Basin and Franklinian Mobile Belt, Canadian Arctic Archipelago**

Rock samples were collected in order to examine their structure and composition. Tests conducted on these samples provided information about how these rocks were formed and the maximum temperatures to which these rocks were heated. These tests, conducted at Dalhousie University, help to determine the geological history of the Canadian Arctic Archipelago.

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060                      Geology

**Beauchamp, Benoit**

Geological Survey of Canada

3303-33rd Street NW

Calgary, AB T2L 2A7

Reference #: 12 404 428

Region: BA      Location: Otto Fiord

Other members of team: U. Mayr, C. Harrison, A. Embry

## **Upper Paleozoic Basin Analysis of Sverdrup Basin Canadian Arctic**

Field work consisted of measuring stratigraphic sections on Northwestern Ellesmere Island, using a 1.5 m Jacob's Staff. Samples for lithology, palaeontology and geochemistry were taken at intervals. This was done to gain an understanding of the stratigraphic relationships of the Carboniferous and Permian strata in the Sverdrup basin and to evaluate the resource potential (oil, gas, minerals) of these rocks.

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061                      Geology

**Bleeker, Wouter**

Geological Survey of Canada  
c/o Rm 461 - 601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 506

Region: FS Location: the Slave Province

Other members of team: C. Beaumont-Smith

**Thematic Structural Studies in the Slave Province**

Researchers conducted routine geological research out of small mobile camps by means of traverse and boat work. The researchers observed and described bedrock geology at a large number of sites. This was done to gain a better understanding of the geological and tectonic history of the Slave structural Province.

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062 Geology

**Boyes, Donald M.**

Department of Geography  
Social Science Centre  
University of Western Ontario  
London, ON N6A 5C2

Reference #: 12 404 509

Region: IN Location: the Mackenzie Delta

Other members of team: N. Mayer, O. Nugent

**Geomorphologic and Hydrologic Analysis of Surface Features of the Mackenzie Delta, NT Using Spacial Image Analysis**

The collection of the field data was required to collaborate satellite image classifications and interpretations concerning water body measurements, plant community types and sedimentation patterns. Field measurements included measuring ground distances and recording plant characteristics. Nothing in the field area would be destroyed or removed.

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063 Geology

**Dixon, James**

Geological Survey of Canada  
Institute of Sedimentary and Petroleum Geology  
3303 - 33rd Street NW  
Calgary, AB T2L 2A7

Reference #: 12 404 421

Region: IN Location: the Richardson Mountains, McDougall Pass, Aklavik Range

Other members of team: Assistant

**Stratigraphic and Sedimentology of Carboniferous to Triassic Strata**

The research involved measuring the thickness of the rocks, identifying the rock types, observing the structures within the rocks and collecting samples for additional laboratory analysis. Most of the work conducted used helicopter support out of Inuvik and Tuktoyaktuk, visiting the sites on a daily basis. If some sites required more than one day's work, a small two-man camp was set up.

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064                    Geology

**Good, Ron**

Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 445

Region: IN        Location: Kittigazuit Bay, Lousy Point, Swimming Point, Tuktoyaktuk

Other members of team: R. Burns, A. Roganzenski, M. Douma, and 8 Assistants

**Geotechnical Properties/Electrical Methods Development**

The researcher conducted a Geotechnical survey of the area. Components of this survey included shallow geological drilling, geophysical downhole logging, geophysical electrical sounding and a snow depth transect. A crew transversed the area by foot and skidoo.

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065                    Geology

**Gray, James T.**

Department de Geographie  
Universite de Montreal  
C.P. 6128 Succ A.  
Montreal , PQ H3C 3J7

Reference #: 12 404 363

Region: BA        Location: Akpatok Is., Resolution Is., Button Islands

Other members of team: L. Giugni, E. Thibault, T. Brynczka

**Glacial Geomorphological Field Mapping on Akpatok Island, Resolution Island and Button Islands**

The research team landed by helicopter from the coastguard vessel at a number of sites along the coasts of Resolution Island, Button Islands and Akpatok Island. Researchers measured with a compass the directions of glacial scratches made by former ice sheets on bedrock and the old raised beaches, which have been uplifted after glaciers left. Researchers identified the geology of boulders and used old marine shells to date the age of these events.

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066                    Geology

**Groat, Lee A.**

Department of Geological Sciences  
University of British Columbia  
6339 Stores Street  
Vancouver, BC V6T 1Z4

Reference #: 12 404 488

Region: FS        Location: Selwyn Mountains north of Tungsten

Other members of team: T.S. Ercit, M. Raudsepp

**Granitic Pegmatites of the Canadian Cordillera**

The researchers continued their study (which began in 1993), on the pegmatites found in the Selwyn Mountains and other western Canadian locations. Pegmatites contain rare elements such as lithium, beryllium, rubidium, niobium, cesium and talalium. This study resulted in a summary of information on their classification, origins and economic potential.

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067                      Geology

**Henderson, J.R.**

Continental Geoscience Division  
Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 462

Region: KI            Location: High Lake Greenstone Belt

Other members of team: M.N. Henderson, J. Dehls, M. O'Keefe, J. Kerewill

**Geology of the High Lake Greenstone Belt**

The research team walked the boundaries of different kinds of rocks. The boundaries were drawn on aerial photographs and transferred to topographical map bases. A geological map will be produced and published by the Geological Survey of Canada.

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068                      Geology

**Hogarth, D.D.**

Department of Geology  
University of Ottawa  
61 Louis-Pasteur  
Ottawa, ON K1N 6N5

Reference #: 12 404 435

Region: BA            Location: Kodlunarn Island, Beare Sound

Other members of team: Dr. R. Auger, I. Nowdluk

**Petrology, Mineralogy and Structural Geology of Martin Frobisher's Ores**

A geological map was made and specimens of both "ores" and surrounding rock were collected at Kodlunarn Island and Bear Sound. The rocks were analysed for normal rock-forming constituents and precious/platinum metals. Minerals were analysed by microprobe. The researcher did this in order to determine if the Bear Sound ores belong to the same suite of metals as the Kodlunarn Island metals and to document Frobisher's mine.

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069                      Geology

**Hrabi, Blair**

Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 505

Region: FS            Location: the Winter Lake area

Other members of team: 1 assistant

**Detailed Bedrock Mapping in the Winter Lake Supracrustal Belt**

This was the final summer of field work for this project. The detailed mapping data in combination with geochemistry will enable the researcher to give a detailed geological history of the area, including timing of certain geological events (age of volcanism and granitic plutons) as well as a deformational history.

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070                    Geology

**Irwin, Doug**

Energy, Mines and Petroleum Resources

Government of the NWT

Box 1320

Yellowknife, NT S1A 2L9

Reference #: 12 404 481

Region: KE        Location: the area of Kaminak Lake

Other members of team: S. Cairns, B. MacPherson, S. O'Connel, L. Ikakhik

**Preliminary Geology and Mineral Potential of the Kaminak Lake Area**

In this research, the Tankin-Ennadai Greenstone belt located near Kaminak Lake was mapped by examining and collecting rocks of the area. The information collected on this survey was transferred onto a map. Rock types and mineral showings were plotted on the map and related to geological features of the area.

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071                    Geology

**Johnstone, Robert**

Mineral Initiatives, MDA

Energy Mines and Petroleum Resources

Government of the NWT Box 1320

Yellowknife, NT X1A 1V7

Reference #: 12 404 380

Region: FS        Location: the Mackay Lake area

Other members of team: Assistant

**Geology and Mineral Potential of the Camsell Lake - Mackay Lake Area.**

In this final year of the project the researchers hiked around the area inspecting bedrock exposures, taking notes on rock types, structures and mineralization and sampling rock for microscopic and geochemical analysis back in Yellowknife.

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072                    Geology

**Kerr, Dan**

5013 - 51 Street

Yellowknife, NT X1A 1S5

Reference #: 12 404 269

Region: KI        Location: Point Lake, Contwoyto Lake

Other members of team: Dr. Lynda Dredge, Brent Ward; 3 or 4 assistants

**Quaternary Geology of the Point Lake and Contwoyto Lake**

Conducted mapping of surficial deposits based on airphoto interpretation and field work. Dug small holes to obtain soil samples. Samples were analysed to determine their chemical composition.

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073                    Geology

**Kettles, Inez**

Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 511

Region: IN            Location: the Inuvik and Norman Wells area

Other members of team: None

**Peatland - Permafrost Mapping and Environmental Implications**

The researcher mapped the configuration of peat deposits and permafrost within them using geophysical surveys (ground penetrating radar and EM-31). This involved setting out a traverse line on foot using measuring tape and flagging tape, taking measurements along the traverse line with hand-held equipment and measuring the depth of peat using a probe. The researcher drove or flew out to the research sites.

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074                    Geology

**King, Roger H.**

Department of Geography  
Social Science Centre  
University of Western Ontario  
London, ON N6A 5C2

Reference #: 12 404 293

Region: BA            Location: Truelove Lowland, Devon Island

Other members of team: A.Lev, J. Luce, L. Morash, M. LaFreniere

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

This was a continuation of a long-term study of the record of past environmental changes preserved in the sediments of the Truelove Lowland. Sediment traps that were placed in Immerk and Loon Lake were removed and analysed. Also the temperature and moisture conditions of soil surrounding Fish Lake was monitored and samples collected.

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075                    Geology

**Kjarsgaard, Bruce A.**

Continental Geoscience Division  
Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 455

Region: FS            Location: the Lac de Gras area

Other members of team: R.J.S. Wyllie, J. Jakop, R.N. Spark

**Detailed Bedrock Mapping, North East Quadrant of the Lac de Gras Sheet**

This was the final season of this bedrock mapping project, which was done to update the geological knowledge in the Lac de Gras area (which was last mapped in the 1940's). Detailed mapping, geochemical and geochronological studies were used to help understand the geological evolution of the area. Mapping was accomplished by foot and boat traverses, and with fixed and rotary wing aircraft support.

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076                    Geology

**Lambert, M.B.**

Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 507

Region: BA        Location: the Muskox Lake region

Other members of team: C. Davis

**Archean Felsic Volcanic Complex Near Regan Lake, District of the Mackenzie, NWT**

The researcher conducted detailed mapping of the area. The researcher traversed the area by foot and used a small boat on the river systems. In the laboratory, the chemistry and radiometric age of the volcanic rock units were examined in order to determine the relationship of the mineral deposits to this volcano.

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077                    Geology

**Nixon, Mark**

Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 398

Region: IN,FS    Location: Mackenzie Valley and Delta

Other members of team: A. Taylor and C. Tarnocai

**Active Layer Monitoring Network in the Mackenzie Valley.**

For this on-going study, measurements such as maximum depth of thaw and surface movements recorded after the previous visit was collected. Monitoring devices were reset for this season.

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078                    Geology

**Pehrsson, Sally**

Geological Survey of Canada  
Rm. 461  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 504

Region: FS        Location: the Indin Lake area

Other members of team: 3 students

**Detailed Bedrock Mapping in the Indin Lake Area**

This was part of ongoing summer field work for this project. The detailed mapping data in combination with the geochemical sampling will enable the researcher to give a detailed geological history of the area, including the timing of certain geological events (age of volcanism and granitic plutons) as well as a deformational history.

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079                      Geology

**Peterson, Tony D.**

Continental Geoscience Division  
Geological Survey of Canada  
601 Booth Street  
Ottawa, ON K1A 0E8

Reference #: 12 404 458

Region: KE            Location: the Dubawnt Lake area

Other members of team: C. Lee, N. Mohan, and one other assistant

**The Dubawnt Super Group**

Collection of rock samples and subsequent study by examination of thin sections, geochemical analysis, and geological mapping. Work in the field was conducted by boat and foot traversing with some support by aircraft. This was done in order to determine the geological history of Archean crystalline rocks.

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080                      Geology

**Relf, Carolyn**

Mineral Initiatives Office  
Energy, Mines and Petroleum Resources  
Box 1320  
Yellowknife, NT X1A 2L9

Reference #: 12 404 450

Region: KI            Location: Avialik River

Other members of team: Four Assistants

**Geological Mapping of the Avialik River Volcanic Belt**

In this ongoing study, the researcher examined the nature of the rocks found in the volcanic belt of the Avialik River area. This work helped to determine the amount of base metals and precious metals found in this belt of rocks. In addition, the movement of rocks (in the past) along a fault was examined. Geological mapping (field work) was done in the summer while analysis of the rocks was done in the following fall and winter.

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081                      Geology

**Scott, David J.**

GEOTOP/UQAM  
University du Quebec a Montreal  
C.P. 8888, Succ. Centre-Ville  
Montreal, PQ H3C 3P8

Reference #: 12 404 487

Region: IN            Location: Meta Incognita and Hall Peninsulas

Other members of team: L. Godin

**Reconnaissance U-Pb Geochronology, Southern Baffin Island**

The bedrock geology of this area preserves a record of geological processes which occurred over 2 billion years ago. A collision of the continental margin (including Lake Harbour rocks) with another continental block resulted in a mountain belt. The eroded ancient mountain belt (the Lake Harbour rock) was examined to determine the age of the rock to better understand the continental margin and to determine the time of this collision.

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082                      Geology

**Stubley, Michael**

Energy, Mines and Petroleum Resources  
Government of the Northwest Territories  
Box 1320  
Yellowknife, NT X1A 2L9

Reference #: 12 404 382

Region: FS            Location: the Nardin Lake area

Other members of team: K. Jaegli, T. Tyler, S. Bilben

**Geology of the Nardin Lake Area, South-Central Slave Province**

The research team examined, documented, and sampled surface outcrops in the study area. The information was recorded on a map which summarized the geological rock-types and mineral resources in the area.

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083                      Geology

**Tarnocai, Charles**

Centre for Land and Biological Resources Research  
KW Neatby Bldg. CEF  
Ottawa, ON K1A 0C6

Reference #: 12 402 301

Region: IN            Location: the Mackenzie Valley area

Other members of team: Dr. K.L. MacInnes

**Soil Climates of the Mackenzie Valley**

Soil (at seven depths) and air temperature data were recorded by data loggers. These loggers were programmed to collect data every 3 hours on the hour. The sites were visited twice a year to reprogram the loggers. In addition, active layer depth and subsidence were recorded during the fall visit. Researchers collected this data in order to determine the effect of climate change on the environment and to provide soil temperature and other data.

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084                      Geology

**Tella, S.**

Continental Geoscience Division  
Geological Survey of Canada  
Rm. 381, 601 Booth Street  
Ottawa, ON K1A 0E4

Reference #: 12 404 453

Region: KE            Location: the Rankin Inlet area

Other members of team: One student assistant

**Regional Bedrock Mapping Studies in the District of Keewatin**

Bedrock mapping took place through daily foot traverses. Bedrock geological information was collected to produce geological maps. This was done in order to assess the economic potential of the region.

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085                      Geology

**Thompson, Peter H.**

Continental Geoscience Division

Geological Survey of Canada

601 Booth Street

Ottawa, ON K1A 0E8

Reference #: 12 404 456

Region: FS            Location: Winter Lake

Other members of team: 4 students

**Regional Bedrock Mapping of the Winter Lake - Lac de Gras Area.**

This was the concluding summer of a regional scale bedrock mapping project, with associated geochronology sampling. The researcher accomplished this by boat, foot and occasional fixed wing and periodic helicopter support. All the data was digitally entered for map compilation and generation.

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# Health

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086 Health

**Brown, Thomas**

Department of Psychology  
Concordia University  
1455 de Maisonneuve Blvd. West, Annex MI-103  
Montreal, PQ H3G 1M8

Reference #: 12 408 109

Region: BA Location: Iqaluit

Other members of team: T. Brown

**Evaluation of Treatment for Inuit Substance Abusers**

The researcher explored how non-medical community based Inuit substance abuse treatment programs in Iqaluit and Kuujuaq both promote and maintain recovery. The researcher developed, tested the feasibility of, and translated an assessment instrument. This study was the first stage of an ongoing research project. In the second stage of this research project, the researcher proposed to evaluate the assessment instrument.

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087 Health

**Chamberlain, Marie**

University of Ottawa  
Faculty of Health Sciences  
451 Smyth Road  
Ottawa, ON K1H 8M5

Reference #: 12 408 108

Region: KE Location: Rankin Inlet, Baker Lake

Other members of team: J. England

**Evaluation of the Birthing Project in Rankin Inlet, NWT**

The researcher reviewed medical charts and a data collection tool filled out for all women who gave birth in a one-year period from Rankin Inlet and Baker Lake. Fifteen women from each hamlet and 10 male partners were interviewed. Midwives were observed at the Rankin Birthing Centre during a one-month period. The researcher also conducted interviews with health personnel and key informants in Rankin Inlet at the end of the one-year period.

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088 Health

**Chan, L.H.M.**

CINE, MacDonald Campus  
McGill University  
21, 111 Lakeshore Road  
Ste. Anne de Bellevue, PQ H9X 3V9

Reference #: 12 408 102

Region: BA Location: Broughton Island

Other members of team: O. Receveur, H.V. Kuhnlein

**Assessment of Effects of Preparation on Levels of Organic Contaminants in Inuit Traditional Food**

The project is to see how different organic contaminants change with different preparation methods of the important fatty foods used by the Inuit. The research focused on food prepared for eating. Samples (approx. 120) were collected and prepared by a research assistant from the community. The study aimed to find the best ways to prepare these food items to reduce exposure to these contaminants (PCB's, Toxaphene, chlordane, and DDT).

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089 Health

**Christensen, Jill**

Regional Nutritionist  
Mackenzie Regional Health Service  
Box 520  
Yellowknife, NT X1A 2N4

Reference #: 12 408 097

Region: FS Location: Ndilo, Dettah and Yellowknife

Other members of team: Y. Green

**Dietary study of the Yellowknives Dene Band: Yellowknife Back Bay Project**

The researchers continued to collect information on the consumption patterns in traditional and store-bought foods as well as lifestyle patterns (eg. fishing and hunting activities, health beliefs, traditional food use) of residents of Ndilo and Dettah. This information would be combined with results of the Back Bay Fish Study (contaminants in fish) in order that human health implications of dietary patterns can be assessed.

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090 Health

**Fleming, Brian**

General Delivery  
Municipality of Sanikiluaq  
Sanikiluaq, NT X0A 0W0

Reference #: 12 410 476

Region: BA Location: Sanikiluaq

Other members of team: E. Wein

**Sanikiluaq Traditional Food Study**

Two researchers from Sanikiluaq conducted interviews with a household food frequency questionnaire, a food preference questionnaire and a 24-hour recall of daily food consumption. All households in the community were interviewed to determine the frequency of food use and food consumed in a 24 hour period. This study will document the frequency of consumption of traditional foods.

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091 Health

**Hall, Barbara**

Student Support Division  
Department of Education  
Box 1320  
Yellowknife, NT X1A 2L9

Reference #: 12 408 069

Region: NWT Location: schools throughout the NWT

Other members of team: A. King, M. Peart, D. Green, J. Heyland, G. Corvari

**A Determination of Factors Influencing the Health, Knowledge, Skills, Attitudes and Behaviours of Children and Youth in the Northwest Territories**

The researchers continued their study (started in 1992) on assessing the health-related knowledge, skills, attitudes and behaviours of children and youth in the NWT. Data was collected through a survey administered through NWT schools. Teachers were also surveyed with regard to the implementation of the NWT School Health Program. Researchers from selected communities were trained to conduct interviews and administrate questionnaires.

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092 Health

**Harris, Ronald W.**

Box 2101  
Cambridge Bay, NT X0E 0C0

Reference #: 12 408 105

Region: NWT Location: all regions throughout the NWT

Other members of team: self

**Factors Predictive of Long-Term Tenure in the Recruitment of Nurses for Community Health Centre Settings in the NWT**

Nurses presently employed in the various health delivery settings across the NWT were surveyed to identify the factors contributing to longer tenure. Data was collected and analysed in order to assess trends and models for recruitment screening and nurse hiring practices were developed.

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093 Health

**Hessel, Patrick A.**

13-103 Clinical Sciences Bldg.  
University of Alberta  
Edmonton, AB T6G 2G3

Reference #: 12 408 101

Region: IN Location: Deline (Fort Franklin)

Other members of team: M. Fraser (co-investigator), S. Prior, I. Ahmed, C. Burt, K. Yoshida, R. Cowie

**Lung Health in Deline (Fort Franklin), NWT**

With the input of the community, this research has been designed to examine lung health, specifically to document respiratory diseases and investigate risk factors associated with them. Interviews with all participants, lung tests (8 years of age and up), and x-rays (18 years of age and up) were conducted. Information was used to develop community-based programs to improve lung health. Residents were trained for data collection.

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094 Health

**Kowerchuk, Kathryn**

36 Johnson Crescent  
Yellowknife, NT X1A 3E9

Reference #: 12 408 104

Region: FS Location: Yellowknife

Other members of team: self

**Factors Affecting "No-Shows" for the Orthopaedic Medical Clinic at a 135-Bed Primary Acute Care Facility in the NWT**

The researcher examined appointment records for the Orthopaedic Medical Clinic (Stanton Yellowknife Hospital) in order to determine what factors contribute to patients not showing up for their scheduled appointments at the Clinic. The information collected would assist health care facilities in determining why patients do not show up for their appointments (i.e., identify difficulties in travel, costs, etc.) and to improve this aspect of health service.

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095 Health

**Kuhnlein, Harriet V.**

CINE, MacDonald Campus  
McGill University  
21 - 111 Lakeshore Road  
Ste. Anne de Bellevue , PQ H9X 3V9

Reference #: 12 408 067

Region: IN,FS Location: 16 selected western NWT communities

Other members of team: B. Erasmus (Dene Nation), B. Masazumi (Dene Nation), W. Carpenter (Metis Nation), O. Receveur, R. Soueida

**Variance In Food Use in Dene/Metis Communities**

The researchers collected information about levels of food consumption in Aklavik, Arctic Red River, Deline, Ft. Good Hope, Colville Lake, Ft. Simpson, Ft. Rae, Lutsel K'e, Ft. Resolution, Ft. Smith, Ft. McPherson, Edzo, Wrigley, Jean-Marie River, Ft. Providence, and Hay River. Three types of surveys were delivered by trained community members: (1) a 24-hour diet recall; (2) a sociocultural survey; and (3) a traditional food use survey.

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096 Health

**Moore, Jan Allison**

1266 Pine Avenue West  
Montreal, PQ H3G 1A8

Reference #: 12 408 099

Region: KI Location: Coppermine

Other members of team: self

**Environmental Factors Affecting Conductive Hearing Loss in Inuit Children**

During 1993, seventy-six families in Coppermine participated in this study. Each child's hearing was assessed and each family was interviewed. Information was gathered on the family routine, diet and parenting style. Additional field trips to collect similar data are planned: the same children and families were re-assessed during January and March 1994. Changes in hearing capability were analysed in terms of diet, sleep pattern and level of smoking.

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097 Health

**Norwich, Ed**

Capital Planning and Maintenance  
Department of Health, GNWT  
CST-6th Floor, Box 1320  
Yellowknife, NT X1A 2L9

Reference #: 12 408 098

Region: IN,FS Location: the Inuvik region and Yellowknife

Other members of team: S. Ashton, D. MacDonald

**Comparison of Costs of Health Services Provided in the Inuvik Region: Preparation for Future Oil and Gas Development**

The researchers completed their assessment of different health care systems in order to determine the most cost-effective, flexible and appropriate system for the Inuvik region. The primary goal of this study is to compare costs associated with delivering health care through the 'community-based nurse' model and the 'medical' model. By collecting information from Dept. of Health sources, this study may be able to address future health care needs for this region.

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098 Health

**Seddon, Laura**

Regional Cord Blood Program Coordinator  
Mackenzie Regional Health Service  
Box 520  
Yellowknife, NT X1A 2N4

Reference #: 12 408 106

Region: FS,KI Location: Yellowknife

Other members of team: J. Walker

**Human Contaminant Trends in Arctic Canada (Cord Blood Monitoring)**

This activity helped expand the human health baseline on exposure and effects of environmental contaminants on humans in the NWT. Blood was sampled from participating mothers and from the umbilical cord to determine the levels of specific organochlorines and heavy metals. This activity involved the participation of communities and community health workers in all aspects including design, implementation and reporting of results.

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099 Health

**Shotton, Robert**

148 Glen Avenue  
Ottawa, ON K1S 3A2

Reference #: 12 408 103

Region: BA Location: Iqaluit

Other members of team: self

**Joint Management of Health Care in the NWT: The Baffin Regional Health Board**

The researcher conducted interviews with Board Trustees, the Chair and the Chief Executive Officer of the Baffin Regional Health Board regarding the frequency and nature of their interactions with administrative staff, and Board involvement in the management of health services in the region. The study was designed to assess the effectiveness of the Board as a new institution in public participation in public service management in the NWT.

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\* See also reference number 042 for other health related research references \*

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# Physical Sciences

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100 Physical Sciences

**Bocking, Stephen**

Royal Society of Canada, Research Eval. Unit  
University of British Columbia  
6284 Biological Sciences Road  
Vancouver, BC V6T 1Z4

Reference #: 12 402 557

Region: IN,FS Location: Yellowknife, Inuvik, Hay River and Fort Smith

Other members of team: M. Healey, L. Mysak, W. James, D. Sherstone, D. Stager, D. Thompson

**Royal Society Evaluation of Aquatic Activities in the Mackenzie Basin**

The researchers completed their data collection activities in the NWT. All available literature on Mackenzie Basin aquatic science and environmental management was catalogued and reviewed in order to identify appropriate criteria for the evaluation of aquatic science activities in the region. The results of this study will assist in coordinating existing and future research activities as well as identifying means to enhance local involvement.

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101 Physical Sciences

**Bradley, Raymond S.**

Department of Geology and Geography  
Morril Science Centre  
University of Massachusetts  
Amherst, Massachusetts USA 01003

Reference #: 12 404 059

Region: BA Location: Sophia Lake, Cornwallis Island

Other members of team: M. Retelle, D. Hardy, M. Douglas, C. Braun

**Laminated Lake Sediments from the Canadian High Arctic**

The researchers measured weather conditions in the Sophia Lake area, together with measurements of stream flow and sediment movement in the lake. This information helped in understanding what controls the transfer of sediment from the land to the lake, and how this transfer is dependent on year to year changes in the weather. By examining the lake sediments, we may be able to reconstruct changes in weather over the last few thousand years.

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102 Physical Sciences

**Burn, C.R.**

Department of Geography  
Carlton University  
Ottawa, ON K1S 5B6

Reference #: 12 404 325

Region: IN Location: the Mackenzie Delta (near Inuvik and on north Richards Isl.)

Other members of team: field assistants

**Investigation of Ground Ice Development in Sediments of the Mackenzie Delta Area**

The researcher continued to collect samples of ground ice and measured temperatures in lakes and ponds. This information was used to help understand how the ground heaves as it freezes during thaw in summer. The information about lakes was also used to help understand the relations between water depths and temperatures beneath the lake.

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103 Physical Sciences

**Cota, Glenn**

Collage of Liberal Arts  
Graduate Program in Ecology  
University of Tennessee 108 Hoskins  
Knoxville, Tennessee USA 37996-1191

Reference #: 12 402 478

Region: BA Location: Barrow Strait

Other members of team: M. Goldman & T. Sifferd

**Remote Sensing of Ocean Colour in the High Arctic**

Light leaving the ocean's surface can be detected remotely by satellite. With the proper conversion factors satellites can tell us the amount and growth of plant material in the oceans. Microscopic plants comprise the base of the marine food chain, serving as food for all animals. Because of their dark colouration plants absorb light and produce heat. The researchers were studying what colours and how much light is absorbed by plants to determine conversion factors for satellites.

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104 Physical Sciences

**Engebretson, Mark**

Department of Physics  
Augsburg College  
731 21st Avenue S.  
Minneapolis, MN USA 55454

Reference #: 12 404 473

Region: BA, KI Location: selected Baffin and Kitikmeot communities

Other members of team: W.J. Hughes, G. Rostoker, J. Samson, L. Cahill Jr.

**Magnetometer Array for Cusp and Cleft Studies (MACCS)**

In previous years, instruments were installed in Clyde River, Igloolik, Pelly Bay, Gjoa Haven, Pangnirtung, Coral Harbour, Repulse Bay, Cape Dorset and Iqaluit in order to measure the earth's magnetic field. Data was collected continuously by the instruments, called magnetometers, for a period of several years. This information helped researchers understand the nature of the aurora.

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105 Physical Sciences

**English, Michael**

Cold Regions Research Centre  
Wilfrid Laurier University  
75 University Avenue West  
Waterloo, ON N2L 3C5

Reference #: 12 404 425

Region: BA Location: the Colour Lake basin, west-central Axel Heiberg Island

Other members of team: S. Schiff (co-investigator), L. Fishback, S. McKay, C. McCrea, J. Patterson, P. Wolfe

**Hydrology and Geochemistry of a High Arctic Lake Basin: Colour Lake, Axel Heiberg Island, NWT**

The researchers were interested in understanding how physical factors (snowmelt, rainfall, solar radiation) play a role in thawing the upper part of the ground each year during the spring and summer. Instruments in the ground collected data that estimated how much energy (from the sun) is entering into and melting the frozen ground. Other instruments measured snowmelt, rainfall and the chemistry of the water. This was part of a multi-year study.

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106 Physical Sciences

**English, Michael**

Cold Regions Research Centre  
Wilfred Laurier University  
75 University Avenue West  
Waterloo, ON N2L 3C5

Reference #: 12 404 425

Region: BA Location: Pond Inlet

Other members of team: S. den Ouden

**Climatic Variability and Hunting and Trapping Success in the Pond Inlet Region**

This study examined how climate influences the success of hunting and trapping in the Pond Inlet area. The amount of snowfall and air temperature varies from year to year. Increased snowfall may result in thick sea ice, affecting the distribution of sea breathing holes and number of polar bear found hunting. The researcher met with the Hunters and Trappers Associations in regards to this.

---

107 Physical Sciences

**Falkner, Kelly K.**

College of Oceanic and Atmospheric Sciences  
Oregon State University  
Oceanography Administration Bldg. 104  
Corvallis, USA 97331-5503

Reference #: 12 404 500

Region: IN Location: the Mackenzie Delta near Tuktoyaktuk

Other members of team: C. Guay, J. Simpkins III, J. Jacobson

**Tracking Arctic River Water by Geochemical Means: Mackenzie Delta Case Study**

The researchers tracked the fate of the Mackenzie River waters through the Delta and into the Arctic Ocean by using natural geochemical markers. Water samples were collected by drilling through the ice at 50 locations along the main channel of the river and out over the shelf. This information is important for understanding the circulation of the Arctic Ocean waters, the processes of global climatology, and the distribution of ocean contaminants.

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108 Physical Sciences

**Gajewski, Konrad**

Department of Geography

University of Ottawa

165 Waller

Ottawa, ON K1N 6N5

Reference #: 12 412 036

Region: BA Location: Devon Island

Other members of team: P. Hamilton

**Modern Pollen Deposition On Western Devon Island**

This is the continuation of a multi-year project to determine the long-term (1000's of years) vegetation history.

Researchers collected sediment samples from the bottom of a series of small lakes. Samples of the uppermost sediment were collected with a dredge or short corer. In the lab pollen were extracted and identified. This data was entered on a databank to be used to determine the types of pollen being deposited by present-day vegetation.

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109 Physical Sciences

**Gan, Thian Yew**

Department of Civil Engineering

310A Civil Engineering Building

University of Alberta

Edmonton, AB T6G 2G7

Reference #: 12 404 479

Region: BA Location: the McMaster River Basin area on Cornwallis Island

Other members of team: S. Lovell

**Estimating areal snow water equivalent of the NWT using passive microwave data**

The researchers returned to Cornwallis Island to collect data on snow depth in the McMaster River Basin area. This information was used to test a computer model or algorithm that has been developed which estimates snow depths from remote sensing data. The development of an algorithm which accurately predicts snow depth from remote sensing data will assist in our knowledge about the distribution of snow in the NWT.

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110 Physical Sciences

**Hartshorn, James**

Department of Geography

Erindale College

University of Toronto

Mississauga, ON L5L 1C6

Reference #: 12 404 503

Region: BA Location: Sawtooth Mountain Range, Fosheim Peninsula, Ellesmere Is.

Other members of team: S. Currie

**High Arctic Debris Flow Activity in the Sawtooth Mountains, Ellesmere Island, NWT, Canada**

Debris flows are landslides composed of rock, soil and water that start on steep slopes as a result of rapid snowmelt and/or intense rainfall. They are significant processes in both periglacial and non-periglacial regions, both visually dominant and geomorphically effective through downslope transport of material. The aim of this study was to assess the cause and effect of such activity in order to gain an understanding of variation in flow frequency and magnitude.

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111 Physical Sciences

**Hicks, Faye E.**

Department of Civil Engineering  
University of Alberta  
Edmonton, AB T6G 2G7

Reference #: 12 404 493

Region: FS Location: the Fort Providence area

Other members of team: D. Andres (co-investigator) plus additional technicians and students

**Freeze Up and Breakup Observations on the Mackenzie River near Fort Providence**

The researchers continued their monitoring of ice formation and breakup at the Mackenzie River crossing near Fort Providence. Data was collected on water levels, river velocity, ice thickness and strength, and snow depth. This information contributed to our knowledge of ice formation and breakup at this crossing, with a goal of predicting Freeze up and breakup events.

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112 Physical Sciences

**Hill, Philip R.**

Centre Oceanographique de Rimouski  
310, allée des Ursulines  
Rimouski, PQ G5L 3A1

Reference #: 12 404 447

Region: IN Location: the outer Mackenzie Delta and the Tuktoyaktuk Peninsula

Other members of team: G. Desmeules, V. Kauppaymuthoo, S. Desmarais-Charland, J.-D. Bouchard

**Coastal Evolution and Sedimentary Processes in the Mackenzie Delta and Tuktoyaktuk Peninsula Region**

The researchers examined the rate of coastal change in the outer Mackenzie Delta Region in order to understand the factors contributing to present delta formation and coastal erosion, and to understand how global climate warming may affect coastal change. Surveys on beaches, sand bars and delta lakes were conducted.

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113 Physical Sciences

**Hudak, Dave**

Atmospheric Environment Service  
Weather Radar Station  
14780 Jane Street  
King City, ON

Reference #: 12 404 513

Region: IN Location: Inuvik, Tuktoyaktuk and the Beaufort Sea

Other members of team: G. Isaac, Dr. R. Steward, K. Moore, E. Hudson

**BASE - Beaufort and Arctic Storms Experiment**

Researchers collected data by installing portable doppler radar at Inuvik and Tuktoyaktuk, using weather balloons, the National Research Council Convair 580 aircraft to fly tracks through storms and released dropsondes, and using existing weather observing sites and satellite pictures. The objectives of this study was to better understand and predict weather and the implications of small scale weather systems on the western Arctic climate.

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114 Physical Sciences

**Jacobs, John D.**

Department of Geography  
Memorial University of Newfoundland  
St. John's, NF A1B 3X9

Reference #: 12 404 030

Region: BA Location: the Amadjuak Lake, and Penny and Barnes Ice Cap areas

Other members of team: A. Headley, D. McNichol

**Climate Studies at Remote Sites in Baffin Island**

Automatic climate stations have been operating at sites on Baffin Island since 1985. Data was collected from these instruments during annual visits to the NWT. At the same time, standard observations were made of other environmental conditions in the vicinity of these stations. During 1994, visits to Amadjuak Lake, the northwest part of the Barnes Ice Cap and the top of the Penny Ice Cap were made.

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115 Physical Sciences

**Jacoby, Gordon C.**

Lamont-Doherty Geological Observatory  
Columbia University  
Route 9 W  
Palisades, New York USA 10964

Reference #: 12 404 149

Region: IN Location: Horton River

Other members of team: Dr. G.C. Wiles, Dr. R.D. D'Arrigo

**Derivation and Analysis of Climatic Information from Tree Rings**

The researcher took 5mm diameter increment core samples from old-aged trees growing near the tree line. This sampling is not harmful to the trees. At two sites the researcher sampled about 10 trees. The samples were processed to produce ring-width and wood-density data for each annual ring. This data would then be statistically compared to meteorological data to make estimates of past climate.

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116 Physical Sciences

**Kelly, John D.**

Geoscience and Engineering Centre  
SRI International  
333 Ravenwood Ave.  
Menlo Park, CA USA 94025

Reference #: 12 404 489

Region: BA Location: Resolute Bay

Other members of team: L. Cogger, G. Sheperd, R. Tsunoda, R. Livingston

**Early Polar Cap Observations**

The researchers continued their long term study of the earth's atmosphere from the newly established scientific facility in Resolute Bay. Data was collected in order to understand the influence of the sun on the earth's atmosphere.

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117 Physical Sciences

**Kershaw, G.P.**

Department of Geography  
University of Alberta  
Edmonton, AB T6G 2H4

Reference #: 12 404 116

Region: IN Location: the area of the NWT-Yukon border along the Canol Road

Other members of team: C. Horvath, K. Small, H. Klappstein, A. Meyer

**Ecological and Geomorphological Investigations in the alpine tundra of the western Mackenzie Mountains**

Since 1974, the permafrost landforms in this area have been studied. Investigations have included the collection of wind and soil temperatures, wind speed and precipitation levels. This information increased our knowledge about how permafrost affects the shaping of the land. In addition, information was collected on how vegetation responds to human activities as a result of the Canol Project.

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118 Physical Sciences

**Kershaw, G.P.**

Department of Geography  
University of Alberta  
Edmonton, AB T6G 2H4

Reference #: 12 404 116

Region: IN Location: the Fort Norman area

Other members of team: C. Horvath, K. Small, H. Klappstein, A. Meyer

**Studies of the Environmental Effects of Disturbances in the Subarctic**

The research was planned to see what happens after the surface of the land was changed by clearing the trees and trenching the soil in 1985 and 1986, and the spilling of crude oil in 1988. Ways to fix or lessen these disturbances are being tested to see which are best. Many studies were done, including measurement of air and soil temperatures, wind speed, moisture, water movement, permafrost, snow, plants and small animals.

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119 Physical Sciences

**Koudys, Al**

Department of Fisheries and Oceans  
Canadian Hydrographic Service  
Box 5050, 867 Lakeshore Road  
Burlington, ON L7R 4A6

Reference #: 12 404 478

Region: KI Location: in the Dease Strait and Coronation Gulf

Other members of team: R. Gammon and 14 technical assistants/engineers

**Arctic Hydrographic and Gravity Survey**

In the second year of a 4-5 year project, the researchers continued to collect water depth and gravity measurements in the Dease Strait and Coronation Gulf. Helicopters landed at predetermined sites on the ice to collect the data. Another helicopter collected similar data using an airborne electromagnetic technique. The airborne technique involves towing a device (9 metres long) under the helicopter to obtain additional data.

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120 Physical Sciences

**Ledrew, Ellsworth**

Earth Science Observations Laboratory, ISTS  
Department of Geography  
University of Waterloo  
Waterloo, ON N2L 3G1

Reference #: 12 404 371

Region: BA Location: Barrow Strait, Lancaster Sound

Other members of team: D. Barber, R. DeAbreu, K. Misurak, T. Papakyriakou

**A Seasonal Sea Ice Monitoring and Modelling Site**

The primary objective of the research was to characterize the physical processes of the interaction between sea ice, the ocean and the atmosphere. Monitoring of this interaction was necessary to understand the impacts of carbon dioxide (CO<sub>2</sub>) warming of Arctic regions. The researchers continued to collect data for this long-term study.

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121 Physical Sciences

**Lehn, W.H.**

Electrical and Computer Engineering  
University of Manitoba  
Winnipeg, MB R3T 5V6

Reference #: 12 404 151

Region: BA,IN Location: Tuktoyaktuk and Resolute

Other members of team: T. Legal, photography team of Nexus

**Polar Atmospheric Refraction**

Mirages occur fairly frequently in the arctic. They distort image and landform shapes as well as our perception of distance. This study examined the underlying causes of mirages by collecting data using time lapse and video photography. This data was used to examine a theoretical model which attempts to explain the distortion properties of mirages.

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122 Physical Sciences

**Lewkowicz, Antoni G.**

Department of Geography  
University of Ottawa  
Box 450 Station A  
Ottawa, ON K1N 6N5

Reference #: 12 404 153

Region: BA Location: Fosheim Peninsula, Ellesmere Island

Other members of team: I. Cayer

**Impact of Climatic Change on Earth Surface Processes, Fosheim Peninsula, Ellesmere Island**

The aim of this ongoing research is to establish links between climate and the movements of soil. By collecting this type of data, it may be possible to determine the effect that climate changes may have on the movements of soil down slopes, into rivers and eventually into the sea. The project has been underway for several years because soil movements are mostly slow and therefore difficult to measure accurately.

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123 Physical Sciences

**Lusk, Barry M.**

Institute of Ocean Sciences  
Department of Fisheries and Oceans  
Box 6000, 9860 W. Saanich Rd.  
Sidney, BC V8L 4B2

Reference #: 12 404 484

Region: KI Location: the Victoria Straits, Queen Maude Gulf and Coronation Strait

Other members of team: Officers and boat crew (49 people) and survey staff (8 people)

**Hydrographic Surveys: Canada's Western Arctic**

Ships of many types and ships designed for many purposes navigate Canada's Southern Northwest Passage. Each of these ships poses potential danger to the passengers and crews aboard as well as to the environment. The Canadian Hydrographic Services is continuing to produce nautical charts to assist ships to travel safely. Potentially shallow passages were surveyed to ensure safe navigation corridors.

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124 Physical Sciences

**Mackay, J.R.**

Department of Geography  
University of British Columbia  
Vancouver, BC V6T 1Z2

Reference #: 12 404 247

Region: IN Location: Garry and Richards Islands and near Tuktoyaktuk

Other members of team: N. Buckley, C. Diana

**Permafrost Studies: Western Arctic Coast**

This permafrost study has been part of a long term study initiated in 1951. The researcher collected data that will allow a better understanding of the growth of ice wedges, pingos and permafrost.

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125 Physical Sciences

**Marsh, Philip**

National Hydrology Research Institute  
11 Innovation Blvd.  
Saskatoon, SK S7N 3H5

Reference #: 12 404 378

Region: IN Location: Trail Valley and Havikpak Creeks (WSC Station sites)

Other members of team: J. Pomeroy, B. Quinton, C. Onclin, B. Reid plus several university field students

**Snow Accumulation, Melt, Runoff and Chemistry in High Latitude Permafrost Basins**

As part of a long-term study, this research will examine the important role that snow plays in northern ecosystems. Snow accounts for a large portion of yearly precipitation. When it melts, snow is a significant source of fresh water for refilling lakes and ponds, and for plant growth. This study examined the role that snow plays in controlling streamflow and movement of solutes, nutrients and pollutants through the tundra, forest and delta ecosystems.

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126 Physical Sciences

**Melling, Humfrey**

Ocean Physics Division  
Institute of Ocean Sciences  
P.O. Box 6000  
Sidney, BC V8L 4B2

Reference #: 12 404 248

Region: IN Location: offshore the Beaufort Sea

Other members of team: P. Johnston, P. Gamble, B. Holland, D. Tuele

**Ice Thickness Topography Study - Beaufort Sea**

The ice measurements were made by untended instruments operating beneath the sea throughout the year. The instruments recovered in March 1994 were positioned in April 1993. The sonars were re-deployed at the same locations to continue observations for another year. In addition, a survey of water properties, by a probe lowered to 1500 m depth of the seafloor, was conducted at about 35 sites.

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127 Physical Sciences

**Miller, Gifford H.**

Associate Professor  
Centre for Geochronological Research  
INSTAAR, University of Colorado  
Boulder, CO USA 80309-0450

Reference #: 12 404 043

Region: BA Location: Cape Dyer, inner Frobisher Bay and across south Baffin Island

Other members of team: P. Sauer, J. Moore, L. Miller, W. Mode, W. Manley and 2-3 assistants

**Late Quaternary Glacial and Climate History on Southern Baffin Island**

The researchers obtained sediments from lakes near Cape Dyer to document past climatic conditions. Vegetation and lake water chemistry data was also collected in order to obtain information about the current environment: this data can be compared to historic data. Finally, the inner Frobisher Bay area was surveyed for data about past sea levels and glacial landforms. This research increased our knowledge about environmental/climate change in the area.

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128 Physical Sciences

**Moorman, Brian**

Department of Earth Sciences  
Carleton University  
1125 Colonel By Drive  
Ottawa, ON K1S 5B6

Reference #: 12 404 480

Region: BA Location: south Bylot Island

Other members of team: F.A. Michel, L.A. Miller

**Geophysical and Geochemical Investigations of Massive Ground Ice**

The researchers conducted 2 types of surveys: (1) radar surveys were conducted using a portable radar unit; and (2) small samples of ice from glaciers and moraines were collected in order to conduct analysis to determine the chemical make-up of the ice. This information was used to determine characteristics about the glaciers as well as help in our understanding of how the climate changed and how different types of ice have formed.

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129 Physical Sciences

**Narbonne, Guy**

Department of Geological Sciences

Queen's University

Kingston, ON K7L 3N6

Reference #: 12 412 040

Region: BA Location: Borden Peninsula

Other members of team: N.P. James, A. Sherman, J. Harrington

**Mesoproterozoic Reefs and Associated Strata, Borden Peninsula, Baffin Island**

At each locality, the researchers measured the rock section with a tape and collected samples with a hammer. Samples collected were examined under a microscope, and using geochemical techniques at Queen's University. Research was concentrated on determining conditions under which these reefs (1200 million year old fossil reefs on the Borden Peninsula) grew and comparing it with the condition under which modern coral reefs grow.

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130 Physical Sciences

**Narbonne, Guy**

Department of Geological Sciences

Queen's University

Kingston, ON K7L 3N6

Reference #: 12 412 040

Region: IN Location: Gayna River and Arctic Red River

Other members of team: N.P. James, E.C. Turner, S. Hooley

**Palaeontology and Sedimentology of Late Proterozoic Reefs, Mackenzie Mountains, NWT**

Field work involved detailed measurement and description of stratigraphic sections using a range pole and compass, also mapping, and selective sampling of reefs using a geological hammer. Follow-up work at Queen's University involved analysis of field data and examination of samples using a variety of laboratory techniques. These reefs are an ecological "missing link" between the two major reef types in earth history and were made entirely by bacteria.

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131 Physical Sciences

**Newitt, Lawrence R.**

Geophysics Division

Geological Survey of Canada

1 Observatory Crescent

Ottawa, ON K1A 0Y3

Reference #: 12 404 498

Region: BA Location: the Ellef Rignes, King Christian & Lougheed Island area

Other members of team: one additional member

**North Magnetic Pole Relocation**

The researchers took measurements of the magnetic field at 10 sites using a magnetometer-theodolite. For each site, the strength and direction of the magnetic field was measured. This information will be used to re-determine the position of the north magnetic pole. This information is important for producing magnetic charts for Canada and providing information to the Geological Atlas of Canada.

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132 Physical Sciences

**Pollard, Wayne**

Department of Geography  
McGill University  
805 Sherbrook Street W  
Montreal, PQ H3A 2K6

Reference #: 12 404 321

Region: BA Location: Eastern Axel Heiberg and Western Ellesmere Islands

Other members of team: Dr. T. Bell, Dr. A. Aitken, R. Shannon, S. Omellon

**Holocene Sea Level History and Ground Ice Occurrence in the High Arctic**

Fieldwork consisted of a combination of mapping surface materials and landforms, and where possible retrieving shells from raised marine deposit to determine the date of emergence and the temperature conditions of the oceans when the shell was formed. Observations of ice and icy sediments were also made. By collecting this data the researchers were able to see broad patterns in the landscape of climate and permafrost formation.

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133 Physical Sciences

**Schunke, Ekkehard**

Geographisches Institute der Universitat  
Goldschmidtstrasse 5  
3400 Gottingen-Weende  
Germany

Reference #: 12 404 189

Region: IN Location: the Richardson Mountains

Other members of team: O. Riess

**Geomorphological and Hydrological Research on Valley Formation in Arctic and Subarctic Environments**

The researchers continued their study, initiated in 1990, on the geological and hydrological processes which contribute to valley formation in the subarctic and arctic. Data was collected on various aspects of water runoff and sediment content. This data, along with long-term environmental data collected by Environment Canada, contributed to knowledge about valley formation.

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134 Physical Sciences

**Sharp, Martin**

Department of Geography  
University of Alberta  
Edmonton, AB T6G 2H4

Reference #: 12 404 501

Region: BA Location: John Evans Glacier, Ellesmere Island

Other members of team: M. Skidmore, A. Arendt, J. Woodward

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

Measurements of the glacier's surface was taken using ground surveys and radio echo sounding. In addition, data was collected on the amounts of snow accumulation and meltwater run-off as well as the chemistry of the snow, water and ice. This information provided us with a better understanding of glaciers in terms of their growth/shrinkage, contribution of water to the local environment and response to climate change.

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135 Physical Sciences

**Smith, Rod**

Department of Geography  
University of Alberta  
Edmonton, AB T6G 2H4

Reference #: 12 404 464

Region: BA Location: Haden Plateau, Hoved Island

Other members of team: D. Burgess, A. Westwood

**Testing for Pre-Holocene Lacustrine Sediments in the Canadian High Arctic**

This study tested the hypothesis that pre-Holocene (older than 10,000 years) lake sedimentary records exist within modern lake basins found on Ellesmere Island. Recent research has not been able to penetrate beyond a layer of coarse sand and pebbles. Recent technological improvements in the coring apparatus should allow the full penetration of this material, as well as the hypothesized older lacustrine sediments below and would reveal a record of past conditions.

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136 Physical Sciences

**Smith, Roger F.**

Badgers  
Bashurst Copse, Itchingfield  
Horsham, Sussex, UK  
RH13 7nz,

Reference #: 12 404 495

Region: BA Location: Blue Mtns. on Ellesmere Island (north of Greely Fiord)

Other members of team: 13 individuals

**Joint Services Expedition to the Blue Mountains, Ellesmere Island**

The researchers conducted a variety of research activities at the study site. Projects included surveys of insects and plants, monitoring glacier movements, collecting data about the area's rocks and soils, assessing changes in the area's climate and environment (using fossils of microscopic marine organisms, chironomids, as indicators), and investigating radio-wave propagation.

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137 Physical Sciences

**Smol, John P.**

Department of Biology  
Queen's University  
Kingston, ON K7L 3N6

Reference #: 12 402 460

Region: BA Location: Cornwallis, Bathurst, Prince of Wales and Somerset Islands

Other members of team: M. Douglas, K. Ruhland

**Study of Bio-indicators of Environmental Change in Arctic Lakes**

The researchers took samples of lake water and lake sediments from a variety of sites in the region. From these samples, information was collected about the water chemistry, microscopic organisms present in the lakes, and changes in the region's past environmental and climatic conditions.

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138 Physical Sciences

**Sofko, George J.**

Institute of Space and Engineering Physics  
University of Saskatchewan  
Saskatoon, SK S7N 0W0

Reference #: 12 404 496

Region: FS,KE,IN Location: Yellowknife, Sachs Harbour, Rankin Inlet

Other members of team: J.A. Koehler, M. McKibben, D. Andre

**High Latitude Studies of the Ionosphere E-region Using the Sapphire North Radar System**

The Sapphire North Radar System uses 2 transmitters, at Sachs Harbour and Rankin Inlet, and a common receiver at Yellowknife. This system measures speeds of structures in the ionosphere (upper atmosphere) in order to study the transfer of energy from the solar wind to the earth. This energy transfer is most apparent during "magnetic storms" when there are displays of northern lights. The researchers will be collecting data for the next several years.

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139 Physical Sciences

**Solomon, Steven**

Environmental Marine Geology  
Bedford Institute of Oceanography  
P.O. Box 1006  
Dartmouth, NS B2Y 1B7

Reference #: 12 404 319

Region: IN Location: Richards Island, Mackenzie Delta Front

Other members of team: R. Murphy

**The Coastal Impacts of Climatic Change**

The Coastal Impacts program in the Beaufort Sea has two complementary objectives: to improve our understanding of coastal processes and to develop methods for prediction of coastal impacts of changing climate. This was met by using a combination of air photographic analysis, field surveys and numerical model development. Field work focused on the delta front processes and the Kugmallit Bay storm impacts.

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140 Physical Sciences

**Washburn, A.L.**

Professor Emeritus  
Quaternary Research Centre AK-60  
University of Washington  
Seattle, Washington USA 98195

Reference #: 12 404 169

Region: BA Location: Resolute Bay area

Other members of team: self

**Multi-year Study of High Arctic Periglacial Processes and Related Quaternary History**

The researcher continued the long-term investigation of how the landscape has changed since the glaciers left 10,000 years ago. In particular, this study examined the effects of frost and permafrost on the landscape. The researcher returned to sites visited in previous years in order to check earlier observations.

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141 Physical Sciences

**Wescott, E.M.**

Geophysical Institute

University of Alaska

Fairbanks, Alaska USA 99775-0800

Reference #: 12 404 494

Region: FS Location: the Upper Air Station near Fort Smith

Other members of team: H.C.S. Nielsen

**Shaped Change Injection of Field-aligned Barium and Calcium Plasma to Investigate the Physics of Mass-dependent Ion Acceleration**

The researchers investigated how the aurora borealis is created. Beams of barium and calcium were to be sent up into the Earth's atmosphere (via a rocket launched from north of Fairbanks, Alaska). These beams, released at night into the atmosphere at an altitude of 500 km, should be visible from Fort Smith. A video camera, located near the Upper Air Station, would record the experiment.

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142 Physical Sciences

**Woo, Ming-ko**

Department of Geography

McMaster University

1280 Main St. W.

Hamilton, ON L8S 4K1

Reference #: 12 404 113

Region: BA Location: Resolute and on the Fosheim Peninsula on Ellesmere Island

Other members of team: R. Xia, D. Yang and one assistant

**Hydrological Modelling for a Permafrost Site and Arctic Snow Accumulation and Melt**

This on-going study attempts to find out how permafrost affects the groundwater, streamflow and levels of water in wetlands. Measurements such as soil moisture, rainfall, ground and air temperatures, and water level were taken. This research would help to determine how climatic change affects permafrost and water bodies in the Arctic.

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# Social Sciences

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143 Social Sciences

**Adkins, Gary**

Box 2246

Yellowknife, NT X1A 2P7

Reference #: 12 410 470

Region: FS Location: Yellowknife

Other members of team: self

## **NWT Teen Perspectives on Social Issues**

The Territorial Government has stated that it would like to see zero tolerance towards violence in the family and that there should be more input from youth in regards to their feelings on what affects them. Teens in Sir John Franklin and St. Patrick High Schools were asked to participate in a questionnaire on abuse. This information will be used to assess the issues that teens face. This study is the researcher's social work practicum in Arctic College.

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144 Social Sciences

**Bone, Robert M.**

Department of Geography

University of Saskatchewan

Saskatoon, SK S7N 0W0

Reference #: 12 410 450

Region: IN Location: Inuvik

Other members of team: J. Saku, P. McPherson, B. Moffat

## **The Impact of the Inuvialuit Final Agreement (IFA) on the Inuvialuit**

The Inuvialuit Final Agreement has brought much change to the Western Arctic. This Agreement has involved the transfer of capital, land and political power to the Inuvialuit. This study hopes to determine the effect of the IFA on the Inuvialuit. The researchers collected data from public sources (Statistics Canada censuses, Labour Force surveys) as well as reports provided by the Inuvialuit in order to compare conditions of 1981 with those of 1991.

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145 Social Sciences

**Bone, Robert M.**

Department of Geography

University of Saskatchewan

Saskatchewan, SK S7N 0W0

Reference #: 12 410 450

Region: IN,FS Location: the Mackenzie Basin

Other members of team: P. McPherson, M. Joshi, J. Saku

## **Effects of Global Warming on Settlements and Non-renewable Resource Development in the Mackenzie Basin to the Year 2050**

Should global warming occur, the environment and human landscape may be altered. The researchers used public information (Statistics Canada censuses and public documents) to collect data for this study. They used this data to examine the possible impacts that global warming will have on the Mackenzie region. The results of this study may assist planning for future development.

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146 Social Sciences

**Dorais, Louis-Jacques**

Departement d'anthropologie  
University Laval  
Quebec, G1K 7P4

Reference #: 12 410 471

Region: BA Location: Iqaluit and Lake Harbour

Other members of team: S. Sammons, S. Cloutier, and one Arctic College student or graduate

**Discourse Practices in the Baffin Region**

The research aims at understanding which language (s) are spoken by the Iqaluit and Lake Harbour residents in different circumstances of life: at school, at work, within their family, at the store, etc. The researcher also wanted to understand how the use of a particular language when speaking to a particular person reflects cultural viewpoint. Finally, the researcher wanted to understand how school children use their first and second language (s).

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147 Social Sciences

**Douglas, Anne**

Department of Admin. and Policy Studies in Education  
McGill University  
3724 McTavish Street  
Montreal, PQ H3A 1Y2

Reference #: 12 410 354

Region: BA Location: Arctic Bay and Iqaluit

Other members of team: self

**Shaping the Institution of Formal Schooling to the Needs of an Inuit Community: A Case Study of Arctic Bay**

The researcher revisited Arctic Bay to continue the study which was initiated in 1991. The researcher examined how the people of the community interact with the formal school system in order to assess different approaches to schooling and different interpretations of concepts basic to schooling. Interviews were conducted with the Community Education Council and members of the community.

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148 Social Sciences

**Elliot, Nancy**

23 Fraser Street  
Port Hope, ON L1A 1Z9

Reference #: 12 410 443

Region: BA Location: Pond Inlet

Other members of team: self

**Origins, Development and Future of World Heritage in Canada**

The researcher examined the potential impact that 'international' status may have on the proposed North Baffin Island National Park. The area has been identified as one of the most productive arctic ecosystems in the circumpolar north. With the emergence of a new national park and Nunavut, opportunity exists to examine the potential impact of a 'World Heritage Site' designation on the park.

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149 Social Sciences

**Everest, Carmen**

18-247 Erb St. W.

Waterloo, ON N2L 1V8

Reference #: 12 410 477

Region: BA Location: Iqaluit, Pangnirtung, Pond Inlet, Igloolik

Other members of team: Self

**Renewable Resource Policies in Nunavut: Relevancy Under a Changing Climate**

The researcher conducted interviews in several communities. The intent of these interviews was to determine current and predicted socio-economic consequences of climate-imposed variations in wildlife habitat and to discuss with policy makers the necessary steps required to ensure that negative socio-economic consequences be minimized through effective and flexible wildlife policies in Nunavut.

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150 Social Sciences

**Goehring, Brian**

Geography Department

217-1984 West Mall

University of British Columbia

Vancouver, British Columbia V6T 1Z2

Reference #: 12 410 235

Region: KI Location: Coppermine, Cambridge Bay, Taloyoak and Pelly Bay

Other members of team: self

**Inuit Employment Mobility Study, Kitikmeot Region, NWT**

The researcher continued the study on the different types of economy present in Kitikmeot communities: the traditional economy derived from hunting, fishing and trapping, and the wage economy. This study examined the sources of cash income, particularly those derived from seasonal, part-time and rotational employment. The study's results may identify trends in wage-labour employment and a strategy for planning immediate / near future economic opportunities.

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151 Social Sciences

**Gouttenoire, Veronique**

GETIC

University Laval,

Cite Universitaire

Sainte-Foy, PQ G1K 7P4

Reference #: 12 410 473

Region: BA Location: Iqaluit

Other members of team: Self

**Kinship and Names in Inuit Culture: Likeness Between Peoples of the Same Family**

The researcher collected data on the relationship between the names and physical likeness. The researcher interviewed elders and young people about their names, names of their relatives, and if physical resemblances links one of their family members to another. This follows a theory about the relationship between names and physical likeness in members of the same family group.

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152 Social Sciences

**Gray, Dyan**

Box 375

Manotick, ON K4M 1A4

Reference #: 12 410 480

Region: FS Location: Fort Simpson, Nahanni River

Other members of team: P. Wiason

**An Application and Evaluation of Parks Canada's Visitor Risk Assessment Model in a Northern Canadian National Park - the Case of Nahanni Park**

Field work was conducted in two phases: one phase involved consulting existing public safety incident reports at the Parks Canada office in Fort Simpson and collecting non personal data. Phase two involved travelling the Nahanni River corridor by canoe and recording observed data pertaining to natural, cultural and visitor related hazards.

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153 Social Sciences

**Hagg, Richard**

Box 232

Lakefield, ON K0L 2H0

Reference #: 12 410 479

Region: IN Location: Sahtu Region

Other members of team: Self

**Management of Northern Rivers For Recreation: An Assessment of Carrying Capacity and Management Strategies For the Mountain and Keele River Systems in the Sahtu Region, NWT**

The researcher administered a questionnaire to river users. Interviews were conducted to survey community and commercial interests. Present government policies for river management were researched. The researcher also collected information from the Nahanni National Park and conducted interviews with Canadian Parks Service Administration in order assess the carrying capacity and management strategies for these rivers.

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154 Social Sciences

**Jackson, Mame**

Department of Art History

Carlton University

1125 Colonel By Drive

Ottawa, ON K1S 5B6

Reference #: 12 410 474

Region: BA Location: Igloodik

Other members of team: K. Read, V. Spain

**Preliminary Planning for Arctic Field Course**

The researchers planned to speak with hamlet leaders and others about the possibility of working together to organize a university-level course for about 20 students on Inuit culture and art which would be held in Igloodik at a mutually-agreeable time in the next year or two. The course would be jointly sponsored by Carleton University and DuPaul University.

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155 Social Sciences

**Johns, Arlene E.**

Box 431

Hay River, NT X0E 0R0

Reference #: 12 410 372

Region: FS Location: Diamond Jenness School in Hay River

Other members of team: self

**A Case Study of Grade 12 Native Students in a Northwest Territories High School**

The researcher continued to examine the factors that contribute to the successful completion of high school by Native students. Interviews of students, parents and teachers were conducted. The information collected in this study may help to determine how the existing school system can encourage students to complete their high school education.

---

156 Social Sciences

**Keith, Robbie**

Environment and Resource Studies

University of Waterloo

200 University Avenue West

Waterloo, ON N2L 3G1

Reference #: 12 404 514

Region: IN Location: Inuvik

Other members of team: G. Wagner

**Implementing the Environmental Assessment Provisions of Comprehensive Aboriginal Land Claim Settlements**

The research consisted of the examination of files, minutes and other public records of the Environmental Impact Review Board formed under the Inuvialuit Final Agreement. These records are kept in Inuvik, NWT. The objective of this study is to identify principals and organizational design criteria for the successful implementation of the environmental assessment provisions of comprehensive land claim settlements.

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157 Social Sciences

**Kofinas, Gary**

Room 436 E

2206 East Mall

University of British Columbia

Vancouver, BC V6T 1Z3

Reference #: 12 410 458

Region: IN Location: Fort McPherson and Aklavik

Other members of team: self

**Community Development in Porcupine Caribou Co-management**

The aim of this project was to analyse the participation of community members in decision-making for the purposes of co-managing the Porcupine caribou herd. The study examined the costs and benefits of community involvement, the role of information and communication in decision-making, and the effectiveness of this management system in meeting community needs. The study included the communities of Old Crow, Aklavik and Fort McPherson.

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158 Social Sciences

**Kulchyski, Peter**

Department of Native Studies

Trent University

Peterborough, ON K9H 1B9

Reference #: 12 410 427

Region: FS,IN,BA Location: Fort Simpson, Fort Good Hope and Pangnirtung

Other members of team: self

**Aboriginal Self-government in Canada's NWT**

In this last year, of a 3-year project, the researcher visited Pangnirtung (in May), Ft. Simpson (in June) and Ft. Good Hope (in July) to conduct interviews with residents about community values and perspectives on self-government. Information was collected on the structure, nature and historical development of meetings and territorial assemblies in order to evaluate their role in current and future governments of the NWT.

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159 Social Sciences

**Lescanec, Heidi**

3561 Woodward Ave

Windsor, ON N8W 5G5

Reference #: 12 410 459

Region: FS Location: Hay River

Other members of team: self

**The Dene Cultural Institute**

The researcher assisted with a variety of Institute activities, including proposal writing and data collection and analysis, in order to better understand how this agency documents traditional environments knowledge. In addition, the researcher was interested in knowing how traditional knowledge was used toward developing policies for sustainable development.

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160 Social Sciences

**Longworth, Bob**

Arctic Ridge Consulting

Box 508

Iqaluit, NT X0A 0H0

Reference #: 12 410 432

Region: BA Location: Iqaluit and Pangnirtung

Other members of team: None

**Impacts and Benefits of Baffin Parks**

The researcher conducted a literature search and reviewed information collected from Parks Canada Office in Iqaluit and Pangnirtung. Other interested agencies contributed information and added input to the bibliography. Information identified by the bibliography would be used in producing video modules. The research would result in a socio-economic bibliography and videos focusing on Auyurttuq and Ellesmere Is. National Park Reserves.

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161 Social Sciences

**Manga, Louise**

1080 Castlehill Crescent  
Ottawa, ON K2C 2A8

Reference #: 12 410 414

Region: BA Location: Igloolik

Other members of team: One translator

**Acquisition of Specificity in Inuktitut; Phrase Structure and Functional Categories in Inuktitut**

To finish the study on the acquisition of specificity, the researcher conducted language games with children (ages 2.5, 3.5, 5, 8) with the help of a translator. Secondly, the researcher analysed structure and movement in Inuktitut by obtaining grammaticality judgements from native Inuktitut by obtaining grammaticality judgements from native Inuktitut speakers. This would be primarily for simple sentences and sentences with embedded sentential complements.

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162 Social Sciences

**McCann, Doris**

Box 13  
Yellowknife, NT X1A 2N1

Reference #: 12 410 481

Region: KE,BA Location: the Keewatin and Baffin Regions

Other members of team: Self

**Factors that Motivate Inuit Tradesmen to Complete Trade Apprenticeships**

Four Inuit journeymen participated in the research. An in depth interview was conducted with each participant. It was taped and transcribed. Thematic analysis of transcripts followed. Supplementary interviews were held to discuss specific details of the first interview. The final result of this research would be a descriptive profile of the factors that motivate Inuit tradesmen to learn skills and to complete apprenticeship programs.

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163 Social Sciences

**McCreadie, Mary**

Box 1507  
Yellowknife, NT X1A 2P2

Reference #: 12 410 454

Region: IN,BA,FS,KE Location: Inuvik, Iqaluit, Yellowknife, Pond In., Rankin In., & Rae-Edzo

Other members of team: E. Heineman

**Adolescent Girls in the NWT: Academic Preparation and Career Planning**

Using surveys and discussion groups, the researchers consulted with female students on their education and career planning. Focus was on math and science education and careers. Math and science teachers and school counsellors were surveyed and classroom activities were monitored. Data was also collected on enrolment statistics for male and female students in math and science courses.

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164 Social Sciences

**McElroy, Ann P.**

Department of Anthropology  
State University of New York at Buffalo  
Buffalo, NY USA 14261

Reference #: 12 410 405

Region: BA Location: Iqaluit, Pangnirtung

Other members of team: Self

**Ethnographic Study of the History and Psychology Impact of Modernization on Baffin Island Inuit.**

The research involved 2-3 weeks of library and museum study in Iqaluit. The researcher reviewed books, articles and reports on the history of Baffin Island and the Arctic in order to help her teaching at SUNY Buffalo and to write a history of Baffin Island. During a one-week visit to Pangnirtung the researcher visited families and took notes on changes since 1974 when the researcher last studied there.

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165 Social Sciences

**McNeal, Joanne**

227 Green College Scholar's Res.  
6201 Cecil Green Park Road  
Vancouver, BC V6T 1Z1

Reference #: 12 410 226

Region: IN Location: Inuvik

Other members of team: Dr. Rita Irwin

**Western Arctic Women Artists**

Phase One and Two were completed in 1992 and 1993. Phase 3 (completion) reviewed previous interviews and additional interviews were conducted. Current interviews were part of an international project headed by Dr. Rita Irwin of UBC.

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166 Social Sciences

**Nadeau, Dorothy Rae**

c/o CNIB - Alberta - NWT Div.  
12010 Jasper Ave.  
Edmonton, AB T6K 0P3

Reference #: 12 410 483

Region: FS Location: Hay River, Kakisa Lake, Ft. Providence

Other members of team: J. Graham, S. Chicot, B. Dumas, B. Landry, and one other member from the West Point First Nation

**Needs Assessment to Improve Service Delivery to Blind and Visually Impaired Aboriginal People: A Pilot Project.**

The research team collected data for this study through questionnaires and review of related literature and documents. Questionnaires were completed by community members representatives: Band Council designees, (Band members, and/or the Hay River Metis Association) who experience visual problems. The communities involved include: Hay River - Town and Reserve, Kakisa Lake, and Fort Providence.

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167 Social Sciences

**Osted, Peter F.**

307-4036 Quadra St.

Victoria, BC V8X 4L6

Reference #: 12 410 453

Region: IN,FS Location: the Sahtu, Deh Cho, North Slave and South Slave regions

Other members of team: self

**The Function of the Community Education Council as a Conduit of Information Between the Community and the Divisional Board of Education**

The researcher asked Community Education Councils (CEC's) of communities served by the Sahtu, Deh Cho, South Slave and Dogrib Divisional Board of Education to complete questionnaires. Data collected included: where items of concern come from, what the CEC does with these items, how these issues are graded in terms of importance, and how often these issues arise. Results of the study may assist the CEC's and Divisional Boards in their work.

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168 Social Sciences

**Rodon, Thierry**

GRIG, Faculte des Sciences Sociales

Department de Science politique

Cite Universitaire

Quebec, PQ G1K 7P4

Reference #: 12 410 394

Region: BA Location: Iqaluit

Other members of team: Self

**Co-management and Political Autonomy of Aboriginal Peoples of Canada**

The researcher conducted interviews with the members of the Nunavut Wildlife Board and the former Nunavut Wildlife Management Advisory Board. This project focused on the co-management structures established by the Inuvialuit Final Agreement, the James Bay and Northern Quebec Agreement and the Nunavut Final Agreement. The researcher evaluated the influence that institutions of co-management have on the actual decision making process.

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169 Social Sciences

**Rodriguez, Marisol**

1038 Pratt

Outremont, PQ H2V 2V2

Reference #: 12 410 404

Region: IN Location: Aklavik, Tuktoyaktuk, Sachs Harbour and Inuvik

Other members of team: self

**Process of Musical Transculturation Among Inuvialuit of the Mackenzie Delta**

The researcher visited the Mad Trapper Jamboree at Aklavik, the Beluga Jamboree at Tuktoyaktuk, and the White Fox Jamboree at Sachs Harbour in order to conduct interviews with musicians and other jamboree participants. This information was added to the information gathered last summer at the Inuvik Music Festival. This research examines the social significance of music in the Inuvialuit.

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170 Social Sciences

**Rose, Martha**

862 Carroll Street  
Brooklyn, NY USA 11215

Reference #: 12 410 468

Region: BA Location: Iqaluit and Lake Harbour

Other members of team: self

**The Relationship and Role of Economic Development Activities in the Baffin Region (NWT) to Third World Initiatives**

The researcher visited Iqaluit and Lake Harbour to conduct personal interviews and discussions with economic development professionals, participate in 'think tank' sessions, and observe systems and procedures in the Department of Economic Development and Tourism's office and staff meetings. This data, along with a review of existing literature, was used to examine similarities between development in the Baffin region and Third World Regions.

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171 Social Sciences

**Rowley, Susan**

6660 Forest Gen Rd.  
Pittsburgh, PA 15217

Reference #: 12 410 484

Region: BA Location: Igloolik

Other members of team: J. Bennett, R. Innuksuk

**The History of Igloolik**

The researcher was contracted by Parks Canada to write a history of Nunavut for the Historic Sites and Monuments Board of Canada. This study focused on two areas: 1. Features of the Inuit culture common throughout Nunavut and, 2. the different regional groups within Nunavut. Through interviews and consultation with the Igloolik Elders' Society, a history of Igloolik would be written. Drafts of this project would be submitted to the society for their approval.

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172 Social Sciences

**Saladin d'Anglure, Bernard**

Department of Anthropology  
Laval University  
Quebec City, PQ G1K 7P4

Reference #: 12 410 012

Region: BA Location: Igloolik

Other members of team: Self

**Inuit Political and Religious Leaders in the Traditional and Contemporary Worlds**

The researcher established the importance religion has in traditional Inuit leadership. Past interviews with Igloolik Elders were transcribed, translated and completed.

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173 Social Sciences

**Seddon, Laura**

Science Institute of the NWT  
Box 1617  
Yellowknife, NT X1A 2P2

Reference #: 12 410 455

Region: NWT Location: the NWT

Other members of team: self

**Survey of NWT Research Activities Conducted in 1993**

The researcher conducted a survey of all NWT researchers who received a research permit or licence under the Scientists Act, the Wildlife Act or the NWT Archaeological Sited Regulations in 1993. This survey collected data on the nature of research activities, and the economic and educational opportunities provided to NWT residents as a result of these activities.

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174 Social Sciences

**Sprecher, Brent**

Faculty of Environmental Design  
2500 University Drive NW  
Calgary, AB T2N 1N4

Reference #: 12 404 499

Region: FS Location: Yellowknife

Other members of team: self

**An Evaluation of Water Management Studies and their Application to Policy Development in the Mackenzie Delta**

The researchers visited Yellowknife to collect information on northern water management and climatic change. Interviews were conducted with interested researchers. In addition, the researcher attended the Mackenzie Basin Impact Study (MBIS) annual meeting to discuss the administration and structure of this large research program with MBIS members. This study examined the role that such studies play in contributing to policy development or change.

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175 Social Science

**Standefer, Roma**

190 Camelia Ave  
Ottawa, ON K1K 2X8

Reference #: 12 410 416

Region: BA Location: Lake Harbour

Other members of team: M. Akovak

**The Impact of Television on Northern Native Communities**

The researcher examined the impact of television on the community of Lake Harbour. Information was collected through the use of interviews with selected people, including elders, adults, and youth. Discussions were held with school teachers, social and health workers, Hamlet Council members and the RCMP. The research was done to assess ways in which the CRTC can provide better television programming to a northern community.

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176 Social Sciences

**Tuchak, Tamara**

125 Home Economics Building  
University of Alberta  
Edmonton, AB T6G 2M8

Reference #: 12 410 457

Region: KE Location: Coral Harbour

Other members of team: J. Oakes

**Inuit Women Entrepreneurs: Building Sustainable Small Business**

This research was designed to meet the stated needs of Inuit women entrepreneurs in the community of Coral Harbour. Data was collected through interviews, group discussion and participant observation. The purpose of this study was to explore the business decision-making process of the participants. The study would develop a database in order to provide Inuit women and policy makers with information to assist in cultural and economic growth.

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177 Social Sciences

**Wenzel, George W.**

Department of Geography  
805 Sherbrook St. West  
McGill University  
Montreal, PQ H3A 2K6

Reference #: 12 410 106

Region: BA Location: Clyde River

Other members of team: I. Qillaq, E. Loring, S. Cundill, S. den Ouden, plus 2 more assistants from Clyde River

**Inuit Subsistence in the 1990's: Harvesting, Land Use and Society at Clyde River**

The researchers were interested in understanding how subsistence hunting contributes to Inuit society in Clyde River. Data was collected from selected households over the next 3 years on harvesting activities and land use. This information was used to understand how subsistence and wage economy activities have developed into a mixed economy, and to determine future economic trends based on employment interests of Inuit youth.

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178 Social Sciences

**Woodman, David**

27 Eaton Ave  
Victoria, BC V8E 5C9

Reference #: 12 410 482

Region: KI Location: the Gjoa Haven and Cambridge Bay areas

Other members of team: D. A. Holland, G.D. Hobson, W. Kowal and 2 Assistants

**Project Supunger**

The research team investigated stories told to Charles Francis Hall in 1879 about the Franklin expedition. Supunger told Hall about a vault sealed with "all look like stone".

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179 Social Sciences

**Woodward, Shalleen**

Financial Management Board Secretariat

Government of the NWT

Box 1320

Yellowknife, NT X1A 2L9

Reference #: 12 410 456

Region: NWT Location: throughout the NWT

Other members of team: L. Little, B. Stephen, D. Mathisen, S. Auchterlome

**NWT Community Organization Wage and Benefit Survey**

A wage and benefits survey was conducted for 200 NWT community organizations which currently receive funding from the GNWT. The data was collected through personal interviews of employers and, in some cases, through telephone interviews using a structured questionnaire. Data collected by Lutra Associates Ltd. was handed over to the Financial Management Board Secretariat (GNWT) for analysis and write-up. Results would be made public.

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# Traditional Knowledge

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180 Traditional Knowledge

**Allen, Wayne E.**

Department of Anthropology

University of California

Santa Barbara, CA USA 93106

Reference #: 12 410 410

Region: IN Location: Fort Good Hope

Other members of team: C. Allen

**Dene Subsistence Practices in the Canadian Subarctic: Long-term Sustainability or Short-Term Exploitation?**

The researcher continued to conduct interviews with the elders and community members of Fort Good Hope in order to collect data to test assumptions about the long-term sustainability of existing Dene harvesting practices. Data included resource distribution, land tenure and harvest patterns, genealogies and traditional knowledge. The researcher continued to work closely with the community on this project.

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181 Traditional Knowledge

**Andrews, Tom**

Prince of Wales Northern Heritage Centre

Department of Education, Culture and Employment

GNWT, P.O. Box 1320

Yellowknife, NT X1A 2L9

Reference #: 12 410 486

Region: IN Location: Tsiigehtchic

Other members of team: A. Andre, N. Andre, I. Kritsch

**Martin Zheh Ethnoarchaeology Project**

The researcher, as part of the archaeology program of the Gwich'in Social and Cultural Institute, interviewed elders about the upper Arctic Red River. Information regarding traditional place names, hunting, fishing and trapping areas, camping spots, location of graves and sacred sites and major trails were discussed and recorded. This information will help determine where the researcher will look for archaeological sites on the upper Arctic Red River.

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182 Traditional Knowledge

**Bill, Lea**

Northern River Basin Study  
690, Standard Life Centre  
10405 - Jasper Avenue  
Edmonton, AB T5J 3N4

Reference #: 12 410 472

Region: FS Location: Fort Smith and Fort Resolution

Other members of team: L. Flett, T. Unka, E. Beaver, L. Mercredi, S. Martin, G. McDonald, V. Courtrelli, L. St. Arnult, M. Hamilin, D. Labucon, D. Shupac

**Northern River Basins Study Traditional Knowledge Documentation Project**

The primary focus of this study was on the older population (65 years and older) of Dene and Metis people in these communities). Data on traditional knowledge was collected by interviews, survey questionnaire, and audio and video taping. Information gathered was used to document the history of traditional ecological knowledge and to document the value of traditional ecological knowledge in scientific research and in predictions of environmental changes (natural and industrial).

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183 Traditional Knowledge

**Cockcroft, Toby R.G.**

143 Oxford Street East  
Apartment 5  
London, ON N6A 1T4

Reference #: 12 410 464

Region: BA Location: Iqaluit

Other members of team: self

**Native Exogenesis of Contemporary and Traditional Inuit Folklore and Mythology**

The researcher collected information on Inuit folklore and mythology from Iqaluit residents. This information was used to determine how interpersonal relationships and society are represented in folklore and mythology. The study resulted in a comprehensive collection of local Inuit stories which will be provided to the community.

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184 Traditional Knowledge

**Fajber, Elizabeth**

5290 de Lorimier  
Montreal, PQ H2H 2C2

Reference #: 12 404 475

Region: FS Location: Fort Simpson

Other members of team: Self

**Traditional Healing in Fort Simpson**

The researcher worked with the Liidli Koe First Nation to investigate the roles of traditional healing and the Western health care in the health and well-being of Fort Simpson residents. This included participation with the council on a project investigating culturally appropriate health care and key informant interviews within the community.

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185 Traditional Knowledge

**Fleming, Brian**

General Delivery

Municipality of Sanikiluaq

Sanikiluaq, NT X0A 0W0

Reference #: 12 410 476

Region: BA Location: the Belcher Islands

Other members of team: L. Arragutainna

**Traditional Knowledge Study of the Beluga Whale in Belcher Islands**

The HTA has appointed a steering committee to coordinate the project to gather and describe community knowledge about the distribution, movement and life history of beluga whales in the Belcher Islands. The committee worked with the other harvesters in the community to facilitate a series of workshops to discuss and examine certain aspects about beluga whales.

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186 Traditional Knowledge

**Freeman, Milton M.R.**

Canadian Circumpolar Institute

University of Alberta

G213 Biological Sciences Building

Edmonton, AB T6G 2E9

Reference #: 12 402 507

Region: IN Location: Tuktoyaktuk

Other members of team: Dr. M. Stevenson; locally recruited field workers

**The Broad Whitefish Traditional Ecological Knowledge Study**

The research team carried out interviews with the Inuvialuit that are knowledgeable about broad whitefish and its fishery in the local waters. Data to be obtained included information on the traditional fishery, changes to this fishery, knowledge about breeding and feeding habits, migrations, parasites and diseases, and effects of the local environmental changes on whitefish.

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187 Traditional Knowledge

**Gombay, Nicole**

Department of Environment and Resource Studies

University of Waterloo

Waterloo, ON N2L 3G1

Reference #: 12 410 467

Region: BA Location: Lake Harbour

Other members of team: self

**Collection of Traditional Knowledge in the Context of Nunavut**

Traditional knowledge includes ecological information that is a profound body of information which is unique to its holders. To various governing bodies established under Nunavut, this knowledge could be both a source of information and a means for Inuit expression and self-determination. The researchers examined key features of this knowledge to identify issues of data ownership/control/access as well as institutional means to collect and use the data.

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188 Traditional Knowledge

**Hart, Elisa**

Prince of Wales Northern Heritage Centre  
Department of Education, Culture and Employment  
GNWT Box 1320  
Yellowknife, NT X1A 2L9

Reference #: 12 410 363

Region: IN Location: Tuktoyaktuk

Other members of team: N. Felix

**Tuktoyaktuk Traditional Knowledge Project**

In this ongoing project to determine the location and nature of heritage sites, the researcher has interviewed 46 elders and 304 sites have been identified. In 1994, the researcher verified the information provided with the elders. Verification of information included: the spelling of traditional place names and traditional words, information on traditionally used places, identifying people in archival photos, and an oral history on reindeer herding.

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189 Traditional Knowledge

**Henderson, Lyle**

1600 Liverpool Court  
Ottawa, ON K1A 0M5

Reference #: 12 410 463

Region: KE Location: Arviaq (south of Arviat) and the Maguse River and Lake

Other members of team: D. Keith, L. Suluk, youth trainees from Arviat

**Arviaq and Maguse River Mapping and Oral History Project**

The researcher worked with Luke Suluk, a recognized expert regarding archaeology and traditional Padlimiut culture. Mr. Suluk identified different archaeological features and described their significance. This research supported a presentation to the Historic Sites and Monuments Board of Canada to determine if Arviaq should be a National Historic Site.

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190 Traditional Knowledge

**Jaunzems, Leah T.**

406-1223 Richmond Street  
London, ON N6A 3L8

Reference #: 12 410 465

Region: BA Location: Iqaluit

Other members of team: self

**Self-conceptions of Elderly Inuit**

The researcher interviewed elderly Inuit to determine their views on their quality of life (both past and current). Information was collected on the elder's views on what it is (and was) like to be an elder in Inuit society, and the types of support services (formal and informal) as well as facilities available to them.

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191 Traditional Knowledge

**Keillor, Elaine**

Department of Music  
Carleton University  
1125 Colonel By Drive  
Ottawa, ON K1S 5B6

Reference #: 12 410 219

Region: FS Location: Yellowknife, Rae Edzo, Detah

Other members of team: Self

**Dogrib Music-Making Documentation and Its Relationship to Dene Musical Expressions**

The documentation and recording of the stories and songs of the Dene provide a valuable resource for the Dene educational system and culture. Interviews with drummers/singers were conducted to further the researcher's understanding of musical activities of these communities. The researcher analysed the recordings with transliterations and translations from the researcher's 1991 study.

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192 Traditional Knowledge

**King, Jonathan**

Museum of Mankind  
Burlington Gardens  
London, UK W1X 2EX

Reference #: 12 410 461

Region: BA Location: Igloolik

Other members of team: self

**Native Clothing of the North American Arctic: Igloolik Clothing**

The researcher conducted interviews with Igloolik people about the significance of traditional clothing to the Inuit. Information was also collected about the use of contemporary versus traditional clothing, and how traditional skills and ideas have been transferred to the tailoring of cloths using contemporary materials. Information was used to assist in developing an exhibition which compares Alaskan and Canadian traditional clothing.

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193 Traditional Knowledge

**Kritsch, Ingrid D.**

303, 4905-54 Avenue  
Yellowknife, NT X1A 1H6

Reference #: 12 410 311

Region: IN Location: Inuvik, Aklavik, Arctic Red River & Campbell Lake Park

Other members of team: R. Arey, W. Greenland (tentative)

**Campbell Lake Park Oral History Project**

The researcher conducted this study under the direction of the Gwich'in Tribal Council. The Council is interested in taking a role in gathering interpretive information for the development of the Campbell Lake Park. The purpose of this project was to provide the Gwich'in perspective of life in the Campbell Lake Park area. Information on place names, trails, camp sites, resources and stories were recorded from interviews with elders and community residents.

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194 Traditional Knowledge

**Kritsch, Ingrid**

Gwich'in Social and Cultural Institute  
General Delivery  
Arctic Red River, NT X0E 0B0

Reference #: 12 410 403

Region: IN Location: the Tsiigehtchic area

Other members of team: A. Andre, 10 Gwich'in Elders, 4 Summer Students, B. Kreps, 2 River Guides

**Gwichya Gwich'in Place Names Project (Phase 3)**

Phase 3 of the Gwichya Gwich'in Place Names Project sought to complete the data collection portion of the study by recording the place names for the remaining area, the Mackenzie Delta. As in previous years, the traditional trails, resource harvesting locations, sacred sites, campsites, and historic cabin sites would also be documented.

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195 Traditional Knowledge

**Legat, Allice**

4706 Anderson Thomson Blvd.  
Yellowknife, NT X1A 1J5

Reference #: 12 410 343

Region: FS Location: Rae Lakes

Other members of team: J. Ryan, S. Zoe, R. Blackduck, Community Advisory Committee

**Rae Lakes Traditional Governance Project**

The researcher investigated traditional methods of governance at the request of the Dene Cultural Institute. Dogrib rules and laws, traditional government processes, traditional decision making processes and traditional law enforcement was recorded. The researcher also assessed which traditional practices people wish to revitalize or maintain in order to develop a model for self-government.

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196 Traditional Knowledge

**Peplinski, Lynn**

Iqaluit Research Centre  
Box 1198  
Iqaluit, NT X0A 0H0

Reference #: 12 410 485

Region: BA Location: Southern Baffin Island

Other members of team: A. Ootoowak, H. Ootoowak, I. Tigullaraq, N. Kiguktak

**South Baffin Place Names Project**

Students at Inukshuk High School, as part of their Inuktitut curriculum work, conducted interviews with local elders at the Iqaluit Research Centre. Interviews were transcribed into syllabic script by the students under the supervision of their teacher Shuvinai Mike. Interviews were subsequently translated into English. Information would be publicly accessible and stored at the Iqaluit Research Centre.

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197 Traditional Knowledge

**Ris, Mats**

Department of Anthropology  
University of Alberta  
13-15 HM Tory Bldg.  
Edmonton, AB T6G 2H4

Reference #: 12 410 478

Region: IN Location: Inuvik

Other members of team: Self

**The Role of Traditional Knowledge in Inuvialuit Marine Mammal Management**

The purpose of this study is to understand how Inuvialuit traditional knowledge and hunting of marine mammals has influenced the way local and regional management strategies are built up. Secondly, the researcher made a comparison with other forms of marine mammal harvesting in circumpolar regions. Such a comparison will make it easier to understand the nature of subsistence hunting in the north.

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198 Traditional Knowledge

**Rodin, Rachel**

225 Olivier  
Apartment 205  
Westmount, PQ H3Z 2C7

Reference #: 12 410 466

Region: BA Location: Repulse Bay

Other members of team: L. Muller-Wille

**Inuit Ecological Knowledge as Expressed Through Place-names in the Arctic**

Sites were selected in the Repulse Bay area whose Inuit place names reflect the biological, physical or cultural / historical significance of the locations. Through visits to these sites and consultation with community members, the researcher determined the relationship between place names and environmental conditions. Sites were selected using the Keewatin Nuna-top database of place names.

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199 Traditional Knowledge

**Searles, Ned**

Department of Anthropology  
University of Washington  
Seattle, WA USA 98195

Reference #: 12 410 452

Region: BA Location: Iqaluit

Other members of team: M. Johnson

**History of the Outpost Camps of Frobisher Bay**

The researcher collected information about the history of outpost camps in the Frobisher Bay area. Individuals who currently use these outpost camps were interviewed in order to document and compare their experiences living in camps with living in Iqaluit. Benefits of 'outpost camp' life will be evaluated. Information collected was used for a doctoral (Ph. D.) thesis in socio-cultural anthropology at the University of Washington.

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200 Traditional Knowledge

**Takeno, Atsushi**

Nexus Incorporated  
4-12-3 Minami Aoyama  
Tokyo, Japan

Reference #: 12 410 469

Region: BA,IN Location: Tuktoyaktuk and Resolute

Other members of team: E. Licht, S. Tokito and camera field crew

**Mirages: The Secrets of Ancient Ruins**

The research consisted of video-taping mirages in the arctic. In addition, interviews with community residents were performed in order to examine the ways in which indigenous people have regarded the phenomenon of mirages. This research resulted in the production of a film which discusses both the cultural and scientific aspects of mirages.

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201 Traditional Knowledge

**Webster, Deborah**

Parks Canada, Department of Canadian Heritage  
Yellowknife, NT

Reference #: 12 410 462

Region: KE Location: Baker Lake and Thirty Mile Lake

Other members of team: D. Webster, L. Henderson, E. Sharp, D. Keith, J. Scottie, H. Mannik and youth from Baker Lake

**Itimnik Oral History Research Project**

This oral history project was complementary to an archaeological survey which was conducted in the Thirty Mile Lake area. The research team conducted interviews with Baker Lake elders in order to determine the significance of this area to wildlife and people. This research supported a presentation to the Historic Sites and Monuments Board of Canada to determine if this area should be designated as a National Historic Site.

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# Prince of Wales Northern Heritage Centre Archaeological Permits

202 Archaeology

**Andrews, Thomas**

Prince of Wales Northern Heritage Centre  
Box 1320, Yellowknife, NT  
X1A 2L9

Reference No: 94-781

Region: FS Location: Hosi Deh, Emile River

## **Hosi Deh (Barrenlands River) Heritage Resource Inventory**

The researchers completed an inventory of heritage of the area. A total of 132 heritage sites were recorded including the remains of 27 birch bark canoes. A highlight of the trip was visiting the location where Edzo and Akaitcho negotiated the peace treaty between the Dogribs and Yellowknives in the 1820's.

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203 Archaeology

**Andrews, Thomas**

Prince of Wales Northern Heritage Centre  
Box 1320, Yellowknife, NT  
X1A 2L9

Reference No: 94-789

Region: FS Location: Drybones Bay, Great Slave Lake Area

## **Drybones Bay Heritage Resource Inventory**

Survey and test excavations in Drybones Bay, Great Slave Lake.

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204 Archaeology

**Auger, Reginald**

Universite Laval  
Quebec

Reference No: 94-779

Region: BA, Location: Kodlunarn Island, Outer Frobisher Bay

## **Archaeology of the 1577-78 Martin Frobisher Base Camp on Kodlunarn Island and related mine sites in Frobisher Bay**

The researcher continued excavations at Martin Frobisher's 16th century base camp. Micheal Blackburn continued consolidating the eroding bank in front of the site and restored the site's vegetal cover to its original state after excavation. Donald Hogarth pursued his field surveys to locate other ore veins which may have been mined by Frobisher's men.

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205 Archaeology

**Bussey, Jean**

Points West Heritage Consulting Ltd.  
Langly, BC

Reference No: 94-768

Region: KI, Location: Lac de Gras

**BHP Minerals Canada Ltd., NWT Diamonds**

The researcher conducted an inventory of resources and test excavations in the Coppermine River Basin north of Lac de Gras for BHP Minerals. Fifty new sites were found on or near eskers. Artifacts were observed and/or collected. A number of sites were located near or within proposed areas of development, those considered significant were avoided by work crews.

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206 Archaeology

**Dawson, Peter Colin**

University of Calgary  
Calgary, AB

Reference No: 94-787

Region: BA, Location: Gregory Peninsula and Black Point, Bathurst Island

**Bathurst Island Archaeology Project**

The researcher is examining how changing economic strategies have influenced the way Inuit have organized their households from A.D. 1000 to 1970. Of special interest is how the introduction of unfamiliar forms of spatial organization, such as Euro-Canadian government housing, has influenced the location and timing of traditional activities, gender relations and conflict resolutions, among modern Inuit families. Twenty-three winter houses were mapped in detail, also tent rings, caches, kayak/umiak stands, and bear/fox traps at a large summer processing site near Deblicquy. Finally, the crew surveyed the coast to the north and south where a number of small summer camps and processing sites were mapped and recorded.

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207 Archaeology

**Greer, Shiela**

Canadian Circumpolar Institute  
University of Alberta  
Edmonton, AB

Reference No: 94-788

Region: IN, Location: Tsiigehnjik

**Tsiigehnjik Ethnoarchaeology Project**

The focus of the study was the history of traditional use of the river corridor. The researchers conducted interviews with elders, then visited traditional sites. The cabin villages at Martin House and Bernard Creek were studied extensively.

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208 Archaeology  
**Helmer, James; LeMoine, Genevieve**  
University of Calgary  
Calgary, AB

Reference No: 94-773  
Region: BA, Location: Arvik site, near Tasiarulik, Little Cornwallis Island

#### **1994 McDougall Sound Archaeology Project**

The researchers completed the final season (since 1992) of work in the area. The objectives were to recover a sample of material from Arvik comparable to that from Tasiarulik, so that similarities and differences between the two occupations at these sites can be evaluated. Work at QiLa-3, another Late Dorset site, was aimed at acquiring a sample from what appears to be a single occupation without the overlap and frequent re-occupation characteristic of the larger sites.

---

209 Archaeology  
**Henderson, Lyle**  
Parks Canada  
Department of Canadian Heritage

Region: KE, Location: Arviaq

#### **Arviaq Mapping and Oral History Project**

The researchers were to determine whether the summer occupation areas of Arviaq and Qaiqituarjuk are nationally significant. The research had two components. The first was to collect information from elders and other knowledgeable informants about ancestral lifeways, traditional knowledge and oral histories associated with these areas. The second was to record the locations of features with a Global Positioning System and to develop maps of the areas using Geographic Information System.

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210 Archaeology  
**Kowal, Walt**  
University of Alberta  
Edmonton, AB

Reference No: 94-778  
Region: KI, Location: North Shore of Collinson Inlet, Cape Jane Franklin, and Cooper Lake, on King William Island

#### **Project Supunger**

This project, designed by David Woodman of Victoria, was to search for remains of the Franklin expedition of 1845. The crew surveyed the area around Cape Jane Franklin on the western coast of King William Island in the attempt to locate burial or record "vaults" and/or graves as reported to Charles Francis Hall by the Inuit hunter named Supunger. The results of this survey suggest that the information provided to Charles Francis Hall was not accurate.

---

211 Archaeology

**MacDonald, John**

Ministry of Culture and Tourism  
Ontario

Reference No: 94-776

Region: KI, Location: Graham Gore Peninsula, King William Island

**Franklin Survey Expedition**

The researcher surveyed in the area of Erbus Bay and Graham Gore Peninsula to locate sites related to the Franklin Expedition of 1845. The survey covered an area of 33 square kilometres. One site, located the previous summer, was extensively recorded, and two dozen additional sites were located. Several of these sites contained artifacts which can be attributed to the Franklin crews.

---

212 Archaeology

**McGhee, Robert**

Canadian Museum of Civilization  
Hull, PQ

Reference No: 94-770

Region: BA, Location: Resolute Bay

**Resolute Bay Archaeology Project**

The researchers carried out a project of excavation and house reconstruction of an early Thule winter village near Resolute Bay. The house selected was reconstructed by Henry Collins and W.E. Taylor in 1950-1951, and had since been vandalised by visitors. The few artifacts recovered suggest an Alaskan or "Ruin Island" affiliation rather than a relationship to the main occupation of the site.

---

213 Archaeology

**Petch, Virginia**

University of Manitoba  
Winnipeg, MB

Reference No: 94-775

Region: KE, Location: Mountain Lake, Hawk Hill, the Grey Hills, Roseblade Lake and Longpre Lake, Southern Keewatin

**Traditional Land Use of the Sayisi-dene from Pre-contact to Contact to Present**

The researcher surveyed Mountain Lake, Hawk Hill, the Grey Hills, Roseblade Lake and Longpre Lake, southern Keewatin. Artifacts were not collected.

---

214 Archaeology

**Rowley, Susan**

R and D Corporation

Reference No: 94-777

Region: BA, Location: Arnaquaksat, southwestern tip of Igloodik Island

#### **Igloodik Archaeology Field School**

The students continued excavation work at Arnaquaksat on two Late Dorset structures. Another salvage excavation was undertaken at the Early/Middle Dorset site of Ataarvik. There, the Igloodik community garbage dump is rapidly expanding in the direction of the site. Over 250 artifacts were recovered. Also, collaborative research with elders into the location of quarry sites continued this year. Five (5) soapstone quarries and a whet stone quarry were visited, and over eighty sites were located during the visits.

---

215 Archaeology

**Savelle, James**

McGill University

Montreal, PQ

Reference No: 94-790

Region: BA, Location: Hazard Inlet, Somerset Island and Borden Peninsula, Baffin Island

#### **Thule Whaling Project**

The researcher concentrated his efforts upon the detailed examination and mapping of a prehistoric Thule Inuit site immediately north of Hazard Inlet. The information will be combined with data previously recorded in this area to better understand the annual cycle of the Thule. Investigations on the Borden Peninsula involved the recording and measuring of bones of bowhead whales that may have been hunted by Thule Inuit. This information will be used to determine what size of whales were being selected by Thule in this area.

---

216 Archaeology

**Smith, Roger F.**

Royal Air Force

Reference No: 94-784

Region: BA, Location: Blue Mountains, Ellesmere Island

#### **Archaeological Survey of the Mountain Area, Ellesmere Island**

The archaeological component of a Joint Service Expedition from the United Kingdom located and recorded evidence of human activity on northwestern Ellesmere Island between Borup and Hare Fiords. Twelve sites were found on the coasts of Hare and Greeley Fiords, and inland in the valley between the Blue and Blackwelder Mountains. The earliest of the encampments might belong to either the Independence I or Pre-Dorset cultures. Most sites were probably Thule in origin.

---

217 Archaeology

**Stenton, Douglas**

Arctic College  
Nunatta Campus  
Iqaluit

Reference No: 94-783

Region: BA, Location: North Baffin Island

**Archaeological Reconnaissance: North Baffin National Park Reserve**

The researcher conducted site surveys on north Baffin Island in the proposed North Baffin Island National Park Reserve. Surveys were conducted in Oliver Sound and along the coasts of Bylot Island. About 20 previously unreported sites were identified. They date primarily from the Thule, Post-contact and modern eras. This information will be useful in the development of a management plan for the park's heritage resources.

---

218 Archaeology

**Stenton, Douglas**

Nunatta Campus  
Arctic College  
Iqaluit

Reference No: 94-772

Region: BA, Location: Tungatsivvik Site, Peterhead Inlet, Frobisher Bay

**Tungatsivvik Archaeology Project**

The researcher returned to the site to teach the archaeological field school of the Environmental Technology Programme of Arctic College. Excavation of a Thule winter house, yielded about 500 artifacts of Pre-Dorset, Dorset, and Thule origin. Analysis of the materials found was conducted at the Arctic College's Nunatta Campus.

---

219 Archaeology

**Shenton, Douglas**

Nunatta Campus  
Arctic College  
Iqaluit

Reference No: 94-786

Region: BA, Location: Cape Dorset, Southern Baffin Island

**Mallikjuak Island Park Development**

The researcher excavated and reconstructed a Thule winter house at the Mallikjuak site near Cape Dorset. The house yielded a small assemblage of artifacts dating from the late Thule period, as well as some modern artifacts (.22 calibre cartridge casings) embedded in the surface levels. The entry passage, exterior walls and sleeping platforms were rebuilt to provide visitors with a better understanding of Thule winter houses.

---

220 Archaeology

**Sutherland, Patricia**

Research Associate, Archaeological Survey of Canada  
Canadian Museum of Civilization  
Hull, PQ

Reference No: 94-782

Region: IN, Location: Richards Island, Mackenzie Delta

**Richards Island Archaeological Project**

The researchers continued to investigate an early prehistoric site discovered in 1993. Investigations at the site of Satkualuk, on the coast of Kittigazuit Bay, included extensive surface collecting of artifacts and the excavation of about ten cubic metres of deposits. A number of new localities were discovered adjacent to the main site. Seventeen other sites were examined, and six of these thought to be related to Choris or other early occupants of Richards Island.

---

221 Archaeology

**Webster, Deborah**

Parks Canada, Department of Canadian Heritage

Reference No: 94-774

Region: KE, Location: Itimnik, Lower Kazan River

**Itimnik Research Project**

The researcher conducted the second season of research at a caribou crossing on the Lower Kazan River. The project is designed to investigate the history of the Saqvuarmiut by surveying the site and recording oral history and place names from the elders who lived there before settling in Baker Lake. Over one hundred archaeological sites were also located. The Historic Sites and Monuments Board of Canada will then determine whether the caribou crossing should be designated as a National Historic Site.

---

222 Archaeology

**Webster, Deborah**

Parks Canada, Department of Canadian Heritage  
Yellowknife, NT

Reference No: 94-780

Region: IN, Location: Thomsen River, Banks Island

**Thomsen River Survey**

The researchers conducted a survey of the west side of Thomsen River in Aulavik National Park. The purpose of this project was to create an inventory of sites along the Thomsen River and to assess their present condition for monitoring future impact. The crew recorded 60 sites. Consultations with representatives of community organizations in Sachs Harbour continue and future research plans for Aulavik National park will be discussed.

---

223 Archaeology

**Whitridge, Peter**

Arizona State University

Tempe, Arizona

Reference No: 94-785

Region: BA, Location: Mount Oliver, Southeast Somerset Island

**Mount Oliver Thule Archaeology project**

The researchers continued work at the Thule village of Qariaraqyuk. The crew completed the excavation of three houses begun in 1993, and excavated three more houses. This completes a three year research project which provides information about prehistoric social life at this complex site.

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# Department of Renewable Resources

## Wildlife Research Permits

224 Wildlife

**Alisaukas, Ray**  
Research Scientist  
Canadian Wildlife Service  
115 Perimeter Road  
Saskatoon, SK S7N 0X4

Reference #: 1074

Year of Research: 05/15/1994

Region: KI Location: Queen Maud Gulf Bird Sanctuary

### **Arctic Fox Predation on Ross and Snow Goose nests**

Waterfowl, Ross Goose

Radio transmitters were applied to arctic fox to determine home ranges and impacts on goose colony.

---

225 Wildlife

**Alisaukas, Ray**  
Research Scientist  
Canadian Wildlife Service  
115 Perimeter Road  
Saskatoon, SK S7N 0X4

Reference #: 1064

Year of Research: 05/01/1994

Region: KI Location: Queen Maud Gulf Bird Sanctuary

### **Population Biology and Nutritional Ecology of Ross Geese**

Waterfowl, Ross Geese

Nest plots were searched to measure population size of colony and measure nest success.

---

226 Wildlife

**Beudooin, Thomas**

Umayot

#400 505-8 AVE SW

Calgary, AB T2P 1G2

Reference #: 1005

Year of Research: 01/18/1994

Region: IN Location: Egg and Masik rivers area on Banks Island

**Muskox Harvest**

Muskox

Testing was done during a commercial harvest of approximately 800 to 1000 Muskoxen.

---

227 Wildlife

**Bradley, Mark**

Regional Biologist

Renewable Resources

Box 390

Fort Smith, NT X0E 0P0

Reference #: 1115

Year of Research: 10/21/1994

Region: FS Location: Fort Providence Area

**Fort Providence Moose Study**

Large Mammals, Moose

Density, sex/age distribution, harvest, and pregnancy rate of the Fort Providence moose population were estimated by block aerial census and survey of local hunters.

---

228 Wildlife

**Bradley, Mark**

Regional Biologist

Renewable Resources

Box 390

Fort Smith, NT X0E 0P0

Reference #: 1105

Year of Research: 07/18/1994

Region: FS Location: Ft Smith, Ft. Simpson, Yellowknife.

**Fire, Fur, Moose**

Animals, small/large mammals

Plant samples were gathered to do animal census on burns of different ages to determine response time of plants and animals to fires.

---

229 Wildlife

**Bromley, Robert**

Waterfowl Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1080

Year of Research: 05/10/1994

Region: IN Location: Inuvik, Aklavik, areas of Mackenzie River Delta

**Spring Harvest of Waterfowl Study**

Waterfowl, Ducks, Geese

Species, age, sex, and numbers of waterfowl killed by visiting spring camps on a regular basis were determined.

---

230 Wildlife

**Bromley, Robert**

Waterfowl Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1082

Year of Research: 05/15/1994

Region: KI Location: Walker Bay, SE Victoria Island, Locker Point north of Coppermine

**Waterfowl of the Central Arctic**

Waterfowl, Ducks, Geese, Swan

The productivity, factors affecting production, affinities, and survival rates of geese and swans were determined.

---

231 Wildlife

**Caswell, Dale**

Waterfowl Biologist

Canadian Wildlife Service

Rm. 513, 269 Main Street

Winnipeg, MN R3C 1B2

Reference #: 1110

Year of Research: 07/20/1994

Region: KE, BA Location: West Hudson Bay, Southampton Island, West Baffin Island

**Tall Grass Prairie (TGP) Canada Geese Marking**

Waterfowl, TGP Canada geese

Canada Geese were drive trapped and marked to assess population status and harvest.

---

232 Wildlife

**Croft, Bruno**

Waterfowl Technician

Renewable Resources

600 5102 50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1065

Year of Research: 04/25/1994

Region: FS, KI Location: Great Slave Lake, Kent Peninsula, Victoria Island

**Nutrients of Canada Geese Nesting in the Central Canadian Arctic**

Waterfowl, Canada Geese

Sixty small female Canada geese were collected to determine the importance of northern staging areas. The role of nutrient reserves in reproduction of small Canada Geese was assessed, and the presence of a nutrient threshold on influencing nest initiation.

---

233 Wildlife

**Dickson, Lynne**

Biologist

Canadian Wildlife Service

Rm.210 4999-98 Ave

Edmonton, AB T6B 2X3

Reference #: 1079

Year of Research: 06/01/1994

Region: KI Location: Victoria Island

**King Eider Abundance on Western Victoria Island**

Waterfowl, King Eiders

Estimates of king eider abundance and distribution were obtained by aerial surveys. Baseline information on king eiders was developed for monitoring.

---

234 Wildlife

**Elkin, Brett**

Wildlife Disease Specialist

Renewable Resources

600 5102 50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1063

Year of Research: 04/05/1994

Region: FS Location: Beverly Caribou Range Ft Smith

**A Survey of Disease, Parasites and Environmental Contaminants in Caribou**

Caribou, Beverly Caribou

Biological samples from hunter kills were collected to determine herd health.

---

235 Wildlife

**Elkin, Brett**

Wildlife Disease Specialist

Renewable Resources

600 5102 50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1003

Year of Research: 01/01/1994

Region: KI Location: Cambridge Bay

**A Survey of Environmental Contaminants in Wolves from Cambridge Bay**

Wolf

The levels of organochlorine, heavy metal and radionuclide contaminants in wolves were determined from collecting carcasses from trappers.

---

236 Wildlife

**Elkin, Brett**

Wildlife Disease Specialist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1002

Year of Research: 01/01/1994

Region: FS, IN Location: Mackenzie Drainage communities

**Organochlorine and Heavy Metal Contaminants in Fish-eating Furbearers**

Small Mammals, Mink

Mink carcasses from trappers in the designated communities were collected and tested for organochlorine and heavy metals.

---

237 Wildlife

**Elkin, Brett**

Wildlife Disease Specialist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1004

Year of Research: 01/01/1994

Region: IN Location: Inuvik

**Survey of Disease, Parasites, and Contaminants in the Bluenose Caribou Herd**

Caribou, Bluenose Caribou

Samples from hunter killed caribou were collected to determine the presence of disease, parasites and levels of organochlorine, heavy metals and radionuclide contaminants.

---

238 Wildlife

**Elkin, Brett**

Wildlife Disease Specialist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1109

Year of Research: 08/01/1994

Region: KI Location: Contwoyto Lake

**Survey of Environmental Contaminants in Local Flora and Fauna**

Animals, Caribou, Voles, Ptarmigan

Samples were collected around a 10 km radius to determine chemical and metal exposure in resident wildlife species as a means of assessing possible localized environmental contamination.

---

239 Wildlife

**Engstrom, Mark D.**

Department of Mammalogy

Royal Ontario Museum

100 Queens Park

Toronto, ON M5S 2C6

Reference #: 1094

Year of Research: 06/20/1994

Region: BA Location: Belcher Islands

**Speciation and Historical Biogeography of Collared Lemmings in North America**

Small Mammals, Collared Lemmings

Up to 30 lemmings were collected to analyse the chromosomal, genetic and morphological information; to determine if chromosomal rearrangements are related to reproductive isolation and the origin of new species. Live animals were also used to start a breeding colony of lemmings from the Belcher Islands.

---

240 Wildlife

**Ferguson, Mike**

Regional Biologist

Renewable Resources

General Delivery

Pond Inlet, NT X0A 0S0

Reference #: 1088

Year of Research: 06/06/1994

Region: BA Location: Northern Baffin Island

**Life history of caribou on Baffin Island**

Caribou, wolves

The herd was surveyed to determine composition, abundance, and the calving areas.

---

241 Wildlife

**Ferguson, Mike**

Regional Biologist  
Renewable Resources  
General Delivery  
Pond Inlet, NT X0A 0S0

Reference #: 1060

Year of Research: 04/05/1994

Region: BA Location: Southern Baffin Region

**Caribou winter population ecology study**

Caribou

Seasonal movements, annual fidelity to range, subpopulations, density and recruitment were determined.

---

242 Wildlife

**Gaston, Anthony**

Research Scientist  
Canadian Wildlife Service  
100 Gamelin Boulevard  
Hull, QB K1A 0H3

Reference #: 1068

Year of Research: 06/01/1994

Region: KE, BA Location: Coats Island, Digges Island

**Canadian Wildlife Service Seabird Monitoring Program**

Sea Birds, Herring Gull, Guillemots

Information on the population dynamics of Thick billed Murres was provided to design harvest levels. Adults and chicks were banded, behaviour was observed, and eggs were removed.

---

243 Wildlife

**Gates, Cormack**

Bison Biologist  
Renewable Resources  
Box 390  
Fort Smith, NT X0E 0P0

Reference #: 1017

Year of Research: 03/01/1994

Region: FS Location: Slave River lowlands

**Slave River Lowlands (SRL) Bison Population Studies**

Bison

Census the SRL herd and determined the herds composition by aerial survey methods.

---

244 Wildlife

**Gates, Cormack**

Bison Biologist  
Renewable Resources  
Box 390  
Fort Smith, NT X0E 0P0

Reference #: 1018

Year of Research: 03/01/1994

Region: FS Location: Fort Providence area

**Vaccination of Adult Male Bison**

Bison

Adult male bison were vaccinated against anthrax and a survey in the Fort Providence area was conducted.

---

245 Wildlife

**Gates, Cormack**

Bison Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1102

Year of Research: 07/05/1994

Region: FS Location: Hanging Ice Bison Ranch

**Summer Forage Selection Strategies of Bison**

Bison

Feeding ecology of bison was studied.

---

246 Wildlife

**Gauthier, Gilles**

Professor  
University of Laval  
Department of Biology  
Ste-Foy, QB G1K 7P4

Reference #: 1100

Year of Research: 06/24/1994

Region: BA Location: Bylot Island

**Breeding Ecology of Greater Snow Geese**

Waterfowl, Greater Snow Geese

The ecology of nesting Greater Snow Geese was monitored. The researcher searched for goose nests, weighed and measured goslings, manipulated clutches, collected goslings and imprinted them on humans, and marked up to 500 adults with leg bands and neck collars.

---



247 Wildlife

**Greenberg, Russell S.**

Smithsonian Migratory Bird Centre  
National Zoo  
Washington, DC 20008

Reference #: 1092

Year of Research: 05/25/1994

Region: FS Location: Ft Simpson, Liard River Park, Ft. Liard, Blackstone Territorial Park

**Comparison of Boreal Forest Bird Communities in Siberia and Canada**

Birds, Songbirds

Census song bird communities and recorded foraging behaviour and compared data with similar projects in Russia.

---

248 Wildlife

**Hancock, David**

Hancock Research Centre  
19313 Zero Avenue  
Surrey, BC V3S 5J9

Reference #: 1091

Year of Research: 06/01/1994

Region: IN Location: Dempster Highway

**Tetraonid Comparative Behaviour**

Birds, Spruce Grouse, Ptarmigan

The breeding behaviour and chick behaviour of tetraonids were studied. Live capture and breed in captivity behaviour studies were conducted.

---

249 Wildlife

**Hines, Jim**

Waterfowl Biologist  
Canadian Wildlife Service  
Box 637  
Yellowknife, NT X1A 2N5

Reference #: 1098

Year of Research: 06/20/1994

Region: IN Location: Inuvialuit mainland

**Distribution Abundance and Survival of Geese and Swans in the Inuvialuit Settlement Region**

Waterfowl, Swans, Geese

The fall and winter distribution of white-fronted, Canada geese and Brant in the Inuvialuit Settlement Region were determined. Annual survival rates were determined. Geese were banded using helicopter drives during their flightless period.

---

250 Wildlife

**Hines, Jim**

Waterfowl Biologist  
Canadian Wildlife Service  
Box 637  
Yellowknife, NT X1A 2N5

Reference #: 1086

Year of Research: 05/20/1994

Region: FS Location: along Yellowknife highway

**Abundance and Productivity of Waterfowl Breeding in the Boreal Forest**

Waterfowl, Ducks

By doing surveys, the researcher determined limiting factors of size composition and productivity of breeding populations of ducks in the Yellowknife area. Census methods were improved.

---

251 Wildlife

**Hines, Jim**

Waterfowl Biologist  
Canadian Wildlife Service  
Box 637  
Yellowknife, NT X1A 2N5

Reference #: 1111

Year of Research: 06/01/1994

Region: IN Location: Banks Island #1 Bird Sanctuary

**Populations and Habitats of Pacific Brant on Banks Island, NWT.**

Waterfowl, Pacific Brant

The number, distribution, survival rates, and impacts of avian cholera were determined on Pacific Brant. Geese were banded using helicopter drives.

---

252 Wildlife

**Hines, Jim**

Waterfowl Biologist  
Canadian Wildlife Service  
Box 637  
Yellowknife, NT X1A 1Y6

Reference #: 1085

Year of Research: 05/20/1994

Region: FS Location: Within 50 km of Yellowknife

**Factors Influencing Distribution and Abundance of the Spruce Grouse**

Birds, Spruce Grouse

Habitat use, density, composition, demography of a spruce grouse population was determined near its northern limit. The hypothesis was tested that annual variation in overwinter survival and reproductive success is the demographic cause of population fluctuations in grouse.

---

253 Wildlife

**Johnstone, Robin**

WCVM D. Vet Anatomy  
University of Saskatchewan  
Saskatoon, SK S7N 0W0

Reference #: 1075

Year of Research: 05/01/1994

Region: KE Location: Rankin Inlet

**Disturbance of Nesting Peregrine Falcons**

Birds, Peregrine Falcons

The distance from nesting Peregrine Falcons that human activity will disturb them was quantified. The disturbance during approach using many different modes of transportation was observed.

---

254 Wildlife

**Johnstone, Robin**

WCVM D. Vet Anatomy  
University of Saskatchewan  
Saskatoon, SK S7N 0W0

Reference #: 1062

Year of Research: 05/01/1994

Region: KE Location: Rankin Inlet

**Pesticide Contamination, Nest Site Occupation, and Nest Competition**

Raptors, Peregrine Falcons

Monitor pesticide contamination by taking blood samples, determine factors affecting reproductive success and determine if the population is limited by the number of quality nest sites.

---

255 Wildlife

**Kay, David**

Waterfowl Biologist  
Ducks Unlimited Canada  
Box 1438  
Yellowknife, NT X1A 2P1

Reference #: 1058

Year of Research: 05/15/1994

Region: IN Location: Brackett Lake

**Distribution, Abundance and Productivity of Waterfowl at Brackett Lake**

Waterfowl

The distribution, abundance and productivity of boreal forest waterfowl in the Brackett lake wetland system was determined.

---

256 Wildlife

**Kerchaw, Peter**

Professor

University of Alberta

Department of Geography 3-32 HM Tory Bld.

Edmonton, AB T6G 2H4

Reference #: 1084

Year of Research: 05/20/1994

Region: IN Location: Fort Norman Region

**Studies of the Environmental Effects of Disturbance in the Subarctic**

Small Mammals, Vole, Shrew

The environmental impacts associated with surface disturbance was quantified, test reclamation treatments were evaluated, and models were developed to predict results of surface disturbance.

---

257 Wildlife

**Krebs, Charles**

Professor

University of BC

Department of Zoology UBC 6270 University Blvd.

Vancouver, BC V6T 1Z4

Reference #: 1076

Year of Research: 06/01/1994

Region: KI, IN Location: Eastern and Western Arctic

**Lemming Population Fluctuations in the Eastern and Western Arctic**

Small Mammals, Lemming Species

Lemming were trapped in the arctic to find out how lemming cycles in the Cambridge Bay area are synchronized with those in the west.

---

258 Wildlife

**Kyle, G. A.**

Interprovincial Pipeline

Box 280

Norman Wells, NT X0E 0V0

Reference #: 1011

Year of Research: 01/01/1994

Region: IN Location: Norman Wells area

**Interprovincial Pipeline Wildlife Monitoring**

Animals, Ungulates, Furbearer

Ungulates and furbearers were monitored along the pipeline right of way.

---

259 Wildlife

**Larter, Nicholas**

Muskox/Caribou Biologist

Renewable Resources

Bag Service 1

Inuvik, NT X0E 0T0

Reference #: 1051

Year of Research: 03/01/1994

Region: IN Location: Banks Island

**Banks Island Range Study**

Animals, Muskox, Caribou

Seasonal diet changes were determined in areas of different ungulate density by collecting samples from dead or harvested ungulates. A habitat analysis study was conducted.

---

260 Wildlife

**Larter, Nicholas**

Muskox/Caribou Biologist

Renewable Resources

Bag Service 1

Inuvik, NT X0E 0T0

Reference #: 1009

Year of Research: 01/26/1994

Region: IN Location: Banks Island

**Condition of Peary Caribou on Banks Island**

Caribou, Peary Caribou

Up to 9 Peary Caribou calves were collected to determine their condition.

---

261 Wildlife

**Latour, Paul**

Habitat Biologist

Canadian Wildlife Service

Box 637

Yellowknife, NT X1A 2N5

Reference #: 1096

Year of Research: 07/15/1994

Region: BA Location: Creswell Bay

**Assessment of Creswell Bay for Future Protected Area Designation**

Birds, Shorebirds

Nesting abundance and distribution and migration of shorebirds was determined at Creswell Bay. Nesting abundance of waterfowl and abundance of sea birds and marine animals were determined by ground survey methods.

---

262 Wildlife

**Latour, Paul**

Habitat Biologist  
Canadian Wildlife Service  
Box 637  
Yellowknife, NT X1A 2N5

Reference #: 1073

Year of Research: 05/01/1994

Region: FS Location: Mills Lake

**Assessment of Mills Lake as a Staging Area for Geese and Ducks**

Waterfowl, Geese and Ducks

The abundance and distribution of staging waterfowl at Mills Lake was determined during the spring and fall. The breeding density at Mills Lake was determined.

---

263 Wildlife

**Laurion, Thomas R.**

U of Wisconsin  
10 Field Station Rd.  
Madison, Wisconsin 82520

Reference #: 1089

Year of Research: 06/15/1994

Region: KE Location: Tammarvi, Kigarvi, and Finnie Rivers

**Salvage Osteological Material for the University of Wisconsin**

Animals

Osteological material was collected while hiking and canoeing in the Thelon Game reserve.

---

264 Wildlife

**Lee, John**

Wolverine Biologist  
Renewable Resources  
600 5102 50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1010

Year of Research: 01/01/1994

Region: KI Location: Napaktolik Lake

**Wolverine Ecology in the Central Arctic**

Large Mammals, Wolverine

Movement patterns and home ranges were investigated by using satellite telemetry.

---

265 Wildlife

**Lee, John**

Wolverine Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1001

Year of Research: 01/01/1994

Region: KI Location: Central Arctic mainland

**Wolverine Harvest Collection Program**

Large Mammals, Wolverine

Number, sex, age and chronology of wolverine harvest was determined and food habits, condition and reproductive status were described by collecting carcasses from trappers.

---

266 Wildlife

**Maclean, Norm**

Sahtu Area Wildlife Technician  
Renewable Resources  
Box 130  
Norman Wells, NT X0E 0V0

Reference #: 1083

Year of Research: 06/01/1994

Region: IN Location: Forest burns in the Sahtu

**Forest Burns and Their Importance to Furbearers and Ungulates**

Furbearers, ungulates

Relative winter abundance of furbearers and ungulates were determined in burns of differing ages and the vegetational structure of the above burns was quantified.

---

267 Wildlife

**Maclean, Norm**

Sahtu Area Wildlife Technician  
Renewable Resources  
Box 130  
Norman Wells, NT X0E 0V0

Reference #: 1090

Year of Research: 06/15/1994

Region: IN Location: Sheep Mountain

**Dalls Sheep Composition and Habitat Selection in the Front Range**

Animals, Dalls sheep

The availability and location of forage was determined and methods of determining composition was tested.

---

268 Wildlife

**Matthews, Steve**

Environmental Assessment Biologist  
Renewable Resources  
600 5102 50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1107

Year of Research: 06/29/1994

Region: FS Location: Lac de Gras, Mackay Lake area

**An Investigation of the Tundra Ecosystem**

Animals

A facility was established and research initiated into the importance of eskers to tundra wildlife in the Slave geological province.

---

269 Wildlife

**Miller, Frank**

Caribou Biologist  
Canadian Wildlife Service  
2nd Floor 4999-98 Ave  
Edmonton, AB T6B 2X3

Reference #: 1008

Year of Research: 04/01/1994

Region: BA Location: Bathurst Island, Queen Elizabeth Islands,

**Peary Caribou Conservation**

Caribou, Peary Caribou

Distribution and movements of Caribou were monitored by capturing and outfitting with satellite radio collars.

---

270 Wildlife

**Mech, David**

US National Biological Service  
North Central Forest Expt. Stn 1992 Folwell Ave  
St. Paul, Minnesota 55108

Reference #: 1069

Year of Research: 06/27/1994

Region: BA Location: Ellesmere Island

**Wolf Behaviour and Ecology**

Wolf

The ecology and behaviour of wolves was studied around Eureka on Ellesmere Island. Tests were done by observation and video tape.

---



271 Wildlife

**Morrison, RIG**

Research Scientist

Canadian Wildlife Service

NWRC 100 Gamelin Boulevard

Hull, QB K1A 0H3

Reference #: 1095

Year of Research: 06/20/1994

Region: BA Location: Alert, Ellesmere Island

**Studies of the Migration, Ecophysiology and Energetics of Shorebirds**

Birds, Shorebirds

A survey was performed to determine breeding density and habitat use. Birds were captured and measured and outfitted with bands and transmitters to determine migration and energetics.

---

272 Wildlife

**Mulders, Robert**

Regional Biologist

Renewable Resources

Box 120

Arviat, NT X0C 0E0

Reference #: 1052

Year of Research: 03/01/1994

Region: KE Location: Keewatin District

**Qamanirjuaq Caribou Spring Composition and Satellite Collaring**

Caribou

The researchers performed ground and aerial classification counts. Hunter killed caribou were collected. A satellite collar on a female was deployed. Research was conducted to provide information on caribou management decisions.

---

273 Wildlife

**Mulders, Robert**

Regional Biologist

Renewable Resources

Box 120

Arviat, NT X0C 0E0

Reference #: 1134

Year of Research: 03/23/1994

Region: KE Location: Keewatin District

**Qamanirjuaq Caribou Spring Composition and Satellite Collaring**

Caribou

Ground and aerial counts were conducted and satellite collars deployed to help make management decisions concerning the Qamanirjuaq caribou spring composition.

---

274 Wildlife

**Nagy, John**

Supervisor, Wildlife Management  
Renewable Resources  
Bag Service 1  
Inuvik, NT X1A 3S8

Reference #: 1093

Year of Research: 04/21/1994

Region: IN Location: Banks Island

**Banks Island Caribou and Muskox Census**

Caribou, Muskox

Aerial strip transects were conducted and the abundance of muskox and caribou on Banks Island were determined and classified.

---

275 Wildlife

**Nagy, John**

Supervisor, Wildlife Management  
Renewable Resources  
Bag Service 1  
Inuvik, NT X0E 0T0

Reference #: 1025

Year of Research: 03/01/1994

Region: IN Location: Banks Island

**Monitoring of Commercial Muskox Harvest on Banks Island**

Muskox

Appropriate samples were collected from commercial muskox kills to monitor body condition, pregnancy status and disease.

---

276 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1015

Year of Research: 02/20/1994

Region: KI Location: Boothia Peninsula

**Distribution and Abundance of Muskoxen on Boothia Peninsula**

Muskox

Aerial strip surveys were conducted on the Boothia peninsula to determine distribution and abundance of Muskoxen.

---

277 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1066

Year of Research: 06/01/1994

Region: KI Location: West Victoria Island

**Calving ground survey of western Victoria Island**

Caribou

All calving grounds were located and delineated on western Victoria Island and caribou numbers on the calving grounds were estimated.

---

278 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1067

Year of Research: 04/01/1994

Region: KI Location: Coronation Gulf, Dease Strait, Dolphin and Union Strait

**Seasonal Movements of Victoria Island Caribou**

Caribou

Caribou were surveyed from ground and air to determine whether caribou wintering in different locations use the same calving grounds. Their seasonal movements were also monitored.

---

279 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1013

Year of Research: 03/01/1994

Region: KI Location: Rae and Richardson River valley

**Status of Muskoxen in the Rae-Richardson River Valley**

Muskox

Abundance and composition of the Muskoxen were determined in the Rae and Richardson River valley by aerial survey methods.

---

280 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1024

Year of Research: 03/01/1994

Region: KI Location: Holman, NT

**Identify Caribou on Victoria Island, Body Condition and Composition of Wolves**

Caribou, Wolves

Samples from hunter killed wolves and caribou helped to determine the genetic make up of the Victoria Island herd and the diet of wolves.

---

281 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1054

Year of Research: 03/01/1994

Region: KI Location: Melbourne Island

**Aerial Survey of Muskoxen on Melbourne Island**

Muskox

The total number of Muskoxen on Melbourne Island were estimated and a suitable harvest level was determined.

---

282 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1016

Year of Research: 03/01/1994

Region: KI Location: Gjoa Haven

**Caribou on King William Island: A study on Traditional Knowledge of Gjoa Haven residents**

Caribou

Traditional knowledge of residents in Gjoa Haven was documented on the ecology of caribou on King William Island.

---

283 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1006

Year of Research: 02/01/1994

Region: KI Location: South of Coppermine

**Body Condition Survey of Hunter Killed Caribou**

Caribou

The health and physical condition of caribou in winter was determined by sampling hunter-killed caribou for standard indices of body condition.

---

284 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1023

Year of Research: 03/01/1994

Region: KI Location: Rae and Richardson River valley

**Identify Lungworm Infecting Muskoxen in the Rae and Richardson River Valley**

Muskox

Samples were collected from hunter killed Muskoxen and analysed in the laboratory.

---

285 Wildlife

**Nishi, John**

Regional Biologist  
Renewable Resources  
Gov. NWT  
Kugluktuk, NT X0E 0E0

Reference #: 1014

Year of Research: 03/01/1994

Region: KI Location: Diamond Jenness Peninsula

**Late Winter Body Condition of Muskoxen in Western Victoria Island**

Muskox

Health and physical condition of Muskoxen in late winter was determined by sampling hunter-killed Muskoxen.

---

286 Wildlife

**Obst, Joachim**

Renewable Resources

General Delivery

Yellowknife, NT X1A 2L8

Reference #: 1070

Year of Research: 05/10/1994

Region: KE Location: Henik Lakes in SE Keewatin Point lakes

**Raptor and shorebird surveys**

Birds, Raptors, Waterfowl

The breeding distribution of raptors, ravens, shorebirds, and waterfowl were documented. Prey remains were collected around Gyrfalcon and Peregrine Falcon nest sites.

---

287 Wildlife

**Poole, Kim**

Furbearer Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1499

Year of Research: 01/01/1994

Region: FS, IN Location: Mackenzie drainage

**Lynx and Marten Carcass Collections**

Furbearers

Age, sex, and reproductive condition of lynx and marten were determined by collecting carcasses from trappers. Pelt measurement criteria was determined for identifying kits in the harvest.

---

288 Wildlife

**Poole, Kim**

Furbearer Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1498

Year of Research: 01/01/1994

Region: FS Location: Calais Lake area of the Mackenzie Bison Sanctuary

**Mackenzie Bison Sanctuary Lynx Study**

Furbearers, Lynx

Home range size, movement patterns and use of habitat were examined and related to snowshoe hare densities. The size of refugia needed for lynx during low hare numbers was established. Lynx were live trapped, radio collared, then released.

---

289 Wildlife

**Poole, Kim**

Furbearer Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1500

Year of Research: 01/01/1994

Region: FS, IN Location: Mackenzie drainage

**Snowshoe Hare Population Monitoring**

Furbearers, Snowshoe hare

Pellets on designated plots were counted to monitor hare levels across the territories.

---

290 Wildlife

**Prosper, Rob**

Canadian Parks Service  
Bag 300  
Fort Simpson X0E 0N0

Reference #: 1077

Year of Research: 05/01/1994

Region: FS Location: Nahanni National Park

**Amphibian Surveys**

Animals, Frogs and toads

A population indices was established for Anuran species along the road corridors from Camsell Bend to Fort Liard. Phenology and species composition was determined in the area by surveying.

---

291 Wildlife

**Ramsay, Malcolm**

Associate Professor  
University of Saskatchewan  
Department of Biology University of Saskatchewan  
Saskatoon, SK S7N 0W0

Reference #: 1057

Year of Research: 04/09/1994

Region: BA Location: Resolute Bay, Viscount Melville Sound, Barrow Strait, Lancaster Sound

**Retention Rate of the Immobilizing Drug Telazol in the Tissue of Polar Bears**

Polar Bears

The researchers determined the biological turnover rate of Telazol in polar bear tissues and assessed health risks of eating injected bear meat. Two bears were immobilized from a helicopter and killed later for sampling.

---

292 Wildlife

**Ramsay, Malcolm**

Associate Professor

University of Saskatchewan

Department of Biology University of Saskatchewan

Saskatoon, SK S7N 0W0

Reference #: 1061

Year of Research: 04/05/1994

Region: BA Location: Resolute Bay, Viscount Melville Sound, Barrow Strait, Lancaster Sound

**Kinetics of PCBs and DDE in the Adipose Tissue and Milk of Polar Bears**

Polar Bears

Polar bears are exposed to high levels of contaminants because they are almost exclusively carnivorous. Objectives included resampling bears to measure changes in PCB/DDE and body composition.

---

293 Wildlife

**Reed, Austin**

Biologist

Canadian Wildlife Service

1141, route de l'Eglise

Ste Foy, QB G1V 4H5

Reference #: 1072

Year of Research: 06/01/1994

Region: BA Location: Bylot Island

**The Breeding Ecology of Greater Snow Geese on Bylot Island**

Waterfowl, Snow Geese

Snow geese were observed to learn how factors influence colony location. Nest success was monitored. More than 2000 snow geese were captured, marked and measured to evaluate survival rates of different cohorts.

---

294 Wildlife

**Reed, Shawna**

Biologist

RESCAN Environmental Services

1111 West Hastings Street 6 floor Coopers &amp; Lybrand Building

Vancouver, BC V6E 2J3

Reference #: 1113

Year of Research: 09/15/1994

Region: FS Location: Prairie Creek area

**Prairie Creek Wildlife and Vegetative Assessment Evaluation**

Animals, all species

Reconnaissance level data was provided on wildlife resources present in the area by visual observation and helicopter flyover.

---



295 Wildlife

**Reed, Shawna**

Biologist

RESCAN Environmental Services

1111 West Hastings Street 6 floor Coopers & Lybrand Building

Vancouver, BC V6E 2J3

Reference #: 1114

Year of Research: 09/15/1994

Region: FS Location: Lac de Gras

**NWT Diamonds environmental monitoring program**

Animals

Baseline data on the presence and abundance of wildlife and the degree of wildlife utilization by residents and nonresidents was provided.

---

296 Wildlife

**Reimer, Ken**

Head

Environmental Science Group

Royal Roads Military College FMO

Victoria, BC V0S 1B0

Reference #: 1097

Year of Research: 06/20/1994

Region: IN Location: DEW line sites across the arctic Pearce Point

**Environmental Study of Abandoned DEW Line Sites**

Small Mammals, Lemmings

Small mammals were trapped to assess the risk of contamination to raptors.

---

297 Wildlife

**Shank, Christopher**

Wildlife Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1108

Year of Research: 08/01/1994

Region: FS Location: Yellowknife, Ft Smith, Ft Simpson

**Monitoring Abundance of Small Mammals**

Small Mammals

100 snap traps were set for 5 trap nights at each location to monitor regional trends in small mammal abundance.

---

298 Wildlife

**Shank, Christopher**

Wildlife Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1106

Year of Research: 07/20/1994

Region: KE, FS Location: Thelon Game Sanctuary

**Muskox Population Estimates for Thelon Game Sanctuary**

Muskox

The entire sanctuary was covered by line transects to establish the abundance of muskox. Some ground truthing of satellite images also took place.

---

299 Wildlife

**Shank, Christopher**

Wildlife Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, NT X1A 3S8

Reference #: 1103

Year of Research: 07/05/1994

Region: KI Location: Coppermine, NT

**Monitoring Nesting Success of Coppermine Gyrfalcons**

Raptors, Gyrfalcon

The researcher determined the number of nesting pairs of raptors and banded and measured young gyrfalcons.

---

300 Wildlife

**Smith, Roger F.**

Flight Lieutenant

Bagers, Bashurst Copse

Itchingfield, Horsham

Sussex, United Kingdom RH13 7NZ

Reference #: 1012

Year of Research: 05/01/1994

Region: BA Location: Ellesmere Island

**Observation Bird Surveys**

Birds

The researcher conducted a survey of bird species present, densities, phenology, time-budget, and an entomological study. Vegetation was compared between slopes.

---

301 Wildlife

**Solberg, John W.**

Biologist

US Fish and Wildlife Service

MBMO Box 1887

Klamath Falls, OR 97601

Reference #: 1081

Year of Research: 08/03/1994

Region: FS Location: Mills Lake

**Western Canada Cooperative Waterfowl Banding Program**

Waterfowl, Ducks

4500 waterfowl were banded at Mills Lake using bait traps.

---

302 Wildlife

**Stirling, Ian**

Research Scientist

Canadian Wildlife Service

5312 - 122 Street

Edmonton, AB T6H 3S5

Reference #: 1059

Year of Research: 04/01/1994

Region: IN Location: Eastern Beaufort, Sachs Harbour, Mould Bay

**Seasonal Movements and Abundance of Polar Bears**

Polar Bears

Abundance of polar bears in the area was estimated between the west coast of Banks Island and Prince Patrick Island.

Bears were marked with dye after immobilization.

---

303 Wildlife

**Storm, Ilya**

Foxe Basin Project

Box 2097

Banff, AB T0L 0C0

Reference #: 1099

Year of Research: 07/04/1994

Region: BA Location: Foxe Basin, Baffin Island, White Is. Vansittart Is, Frozen St.

**Avifaunal Survey of Lesser Known Areas of Foxe Basin, NT.**

Birds, Shorebirds, gulls

Abundance and distribution of the bird species was mapped, long term monitoring was recommended and contributed to natural history base using plot census techniques.

---

304 Wildlife

**Taylor, Mitchell**

Polar Bear Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1056

Year of Research: 04/05/1994

Region: BA Location: Eastern Arctic

**Inventory of High Arctic/Baffin Bay Polar Bear Populations**

Polar Bears

The boundaries of polar bear populations was identified by satellite telemetry. The ground based work was recorded for conservation education materials.

---

305 Wildlife

**Voelzer, James**

Flyway Biologist  
US Fish and Wildlife  
911 NE 11 Ave 97232-4141  
Portland, Oregon 97232

Reference #: 1071

Year of Research: 05/01/1994

Region: FS, IN Location: Mackenzie River Drainage

**Cooperative US/Canadian Waterfowl Population Surveys**

Waterfowl, Ducks, Geese

The size and species composition of the breeding population of ducks and other waterfowl was determined in the Mackenzie River Drainage.

---

306 Wildlife

**Williams, Mark**

A/Caribou Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1019

Year of Research: 03/01/1994

Region: IN, KI Location: Bathurst Caribou Range

**Ecological Factors that Influence Population Dynamics of the Herd**

Caribou

Ground and aerial classification counts were done on the Bathurst caribou range and samples of hunter killed caribou were collected.

---

307 Wildlife

**Williams, Mark**

A/Caribou Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1022

Year of Research: 03/01/1994

Region: FS Location: Beverly Caribou Range

**Wildlife Management Studies on the Beverly Caribou Herd**

Caribou

The researcher performed ground and aerial classification counts of Beverly caribou herd, photographic calving ground census, and collected specimens from hunter kills.

---

308 Wildlife

**Williams, Mark**

A/Caribou Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1020

Year of Research: 03/21/1994

Region: KE Location: Qamanirjuaq caribou range

**Conduct Classification Counts of the Herd in March**

Caribou

Classification counts were conducted and specimens collected from hunter killed caribou and attached 1 satellite collar.

---

309 Wildlife

**Williams, Mark**

A/Caribou Biologist  
Renewable Resources  
600-5102-50 Ave  
Yellowknife, NT X1A 3S8

Reference #: 1021

Year of Research: 06/01/1994

Region: KE Location: Qamanirjuaq herd range

**Photographic Census of the Qamanirjuaq Calving Ground**

Caribou

The calving ground was photographed in spring and specimens were collected from hunter kills or dead or dying caribou located during the study.

---

310 Wildlife

**Wissink, Renne**

Chief Park Warden

Ellesmere National Park

Box 353

Pangnirtung, NT X0A 0R0

Reference #: 1112

Year of Research: 08/01/1994

Region: BA Location: Ellesmere Island

**Ellesmere Island National Park Service Wildlife Study**

Caribou, Wolves

Seasonal movements of wildlife on Ellesmere Island, and annual fidelity to seasonal ranges was determined. The researcher delineated population boundaries, and identified critical seasonal habitats.

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297 Shank, Christopher  
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034 Sheath, Robert  
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035 Sitinvar, Andreasi  
036 Smith, Thomas  
135 Smith, Rod  
136 Smith, Roger F.  
216 Smith, Roger F.  
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137 Smol, John P.  
138 Sofko, George J.  
301 Solberg, John W.  
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037 Stevenson, John  
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039 Svoboda, Josef  
200 Takeno, Atsushi  
083 Tarnocai, Charles  
304 Taylor, Mitchell  
084 Tella, S.  
085 Thompson, Peter H.  
176 Tuchak, Tamara  
047 Usher, Peter J.  
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140 Washburn, A.L.  
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## Regional Index

BA - Baffin  
IN - Inuvik  
KI - Kitikmeot

FS - Fort Smith  
KE - Keewatin  
NWT - All regions

**Please note that some research projects took place in more than one region. It is important, therefore, to check the references to other regions when doing a search on a specific region. The reference number shown refers to the reference code given for this text and does not refer to page number.**

### Science Institute of the NWT

Ref #	Region	Research Title
006	BA	Ice Scour Disturbance and the Structure of Arctic Marine Benthic Communities
010	BA	Abundance and Distribution of Bowhead Whales in Foxe Basin
014	BA	Hydrological Investigations into the Fate of Sewage Infiltration - An Arctic Example
016	BA	Baffin Bowhead Monitoring Station, Igalirtuuq
017	BA	From ice algae to sediments in the frozen arctic seas: the contribution of direct sedimentation and zooplankton grazing on the vertical flux of carbon
018	BA	Metabolism of Arctic Fish and Invertebrates
019	BA,KI	Hybridization in Arctic Grasses: Evidence From Chloroplast and Nuclear DNA.
021	BA	Distribution, Systematics and Genetic Structure of Arctic Zooplankton
022	BA	Responses of Circumpolar Plant Species and Their Communities to Simulated Climate Change
026	BA	Temperature relations and interactions of arctic woolly-bear caterpillars and their insect parasitoids
029	BA	The Effects of UV-B Radiation on the Community of Arctic Lakes
034	BA	Distribution and Physiological Adaptions of Stream Macroalgae in the High Arctic
036	BA	Behavioural and Physiological Studies of Belguia Whales and Narwhal in the High Arctic
039	BA	1. Initial Phase of Primary Succession Following Glacial Retreat 2. Secondary Metabolites in Arctic Willow 3. Photosynthesis and Respiration in Blue-Green Algae 4. Revegetation of Snow / Ice Landscapes During Lt. Ice Age 5. Monitoring of ITEX

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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
040	BA	UV-B Impacts on the Microbial Food Web in High Arctic Freshwater Ecosystems
043	BA	Contaminant deposition measurements in precipitation in the NWT
044	BA	The Extent and Pattern of Historical Ocean Disposal in Iqualuit, Brewer Bay, Cape Dyer and Cape Hooper
045	BA	Organochlorine Industrial Compounds, Pesticides and Mercury in Fish from the Belcher Islands Region, NWT, Canada
046	BA	Amituk Lake: Trace Organic Contaminants in an Arctic Aquatic System
048	BA	Early Land Plants from 400 million year old Rocks of Bathurst Island
050	BA	Trilobite Systematics and Event Stratigraphy of the Paleozoic
051	BA	Palaeozoic Microvertebrate Biochronology
052	BA	Permo-Triassic Vertebrates from Axel Heiberg and Ellesmere Islands, NWT
053	BA	Biostratigraphy of a Tertiary Vertebrate Locality on Strathcona Fiord Ellesmere Island
054	BA	Silurian and Devonian Faunas - Arctic Canada
055	BA	Carbonate precipitation in the Mesoproterozoic Society Cliffs Formation, Bylot Supergroup, on northern Baffin Island
056	BA	Taxonomic and Biostratigraphic Studies of Silurian (about 400,000,000 years ago) Graptolites (extinct organisms) and Radiolaria (micro-organisms) of Central Arctic Islands.
057	BA	Permian Plants of Axel Heiberg and Ellesmere Islands, Canadian Arctic Archipelago
058	BA	Mineral and Energy Resource Assessment and the Northern Bathurst Island Area
059	BA	Thermal and tectonic history of the Sverdrup Basin and Franklinian Mobile Belt, Canadian Arctic Archipelago
060	BA	Upper Palaeozoic Basin Analysis of Sverdrup Basin Canadian Arctic
065	BA	Glacial Geomorphological Field Mapping on Akpatok Island, Resolution Island and Button Islands
068	BA	Petrology, Mineralogy and Structural Geology of Martin Frobisher's Ores
074	BA	The Study of Environmental Change, Truelove Lowland, Devon Island, NT
076	BA	Archean Felsic Volcanic Complex Near Regan Lake, District of the Mackenzie, NWT
086	BA	Evaluation of Treatment for Inuit Substance Abusers

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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
088	BA	Assessment of Effects of Preparation on Levels of Organic Contaminants in Inuit Traditional Food
090	BA	Sanikiluaq Traditional Food Study
099	BA	Joint management of health care in the NWT: The Baffin Regional Health Board
101	BA	Laminated lake sediments from the Canadian high arctic
103	BA	Remote Sensing of Ocean Colour in the High Arctic
104	BA, KI	Magnetometer array for cusp and cleft studies (MACCS)
105	BA	Hydrology and geochemistry of a high arctic lake basin: Colour Lake, Axel Heiberg Island, NWT
106	BA	Climatic Variability and Hunting and Trapping Success in the Pond Inlet Region
108	BA	Modern Pollen Deposition On Western Devon Island
109	BA	Estimating areal snow water equivalent of the NWT using passive microwave data
110	BA	High Arctic Debris Flow Activity in the Sawtooth Mountains, Ellesmere Island, NWT, Canada
114	BA	Climate studies at remote sites in Baffin Island
116	BA	Early polar cap observations
120	BA	A seasonal sea ice monitoring and modelling site
121	BA, IN	Polar Atmospheric Refraction
122	BA	Impact of Climatic Change on Earth Surface Processes, Fosheim Peninsula, Ellesmere Island
127	BA	Late Quaternary Glacial and Climate History on Southern Baffin Island
128	BA	Geophysical and geochemical investigations of massive ground ice
129	BA	Mesoproterozoic Reefs and Associated Strata, Bordon Peninsula, Baffin Island
131	BA	North Magnetic Pole Relocation
132	BA	Holocene Sea Level History and Ground Ice Occurrence in the High Arctic
134	BA	Dynamics and Hydrology of a high arctic glacier: John Evans Glacier, Ellesmere Island
135	BA	Testing for Pre-Holocene Lacustrine Sediments in the Canadian High Arctic
136	BA	Joint services expedition to the Blue Mountains, Ellesmere Island

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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
137	BA	Study of bio-indicators of environmental change in arctic lakes
140	BA	Multi-year study of high arctic periglacial processes and related quaternary history
142	BA	Hydrological Modelling for a Permafrost Site and Arctic Snow Accumulation and Melt
146	BA	Discourse Practices in the Baffin Region
147	BA	Shaping the institution of formal schooling to the needs of an Inuit community: a case study of Arctic Bay
148	BA	Origins, Development and Future of World Heritage in Canada
149	BA	Renewable Resource Policies in Nunavut: Relevancy Under a Changing Climate
151	BA	Kinship and Names in Inuit Culture: Likeness Between Peoples of the Same Family
154	BA	Preliminary Planning for Arctic Field Course
160	BA	Impacts and Benefits of Baffin Parks
161	BA	Acquisition of Specificity in Inuktitut; Phrase Structure and Functional Categories in Inuktitut
164	BA	Ethnographic Study of the History and Psychology Impact of Modernization on Baffin Island Inuit.
168	BA	Co-management and Political Autonomy of Aboriginal Peoples of Canada
170	BA	The relationship and role of economic development activities in the Baffin region (NWT) to Third World initiatives
171	BA	The History of Igloolik
172	BA	Inuit Political and Religious Leaders in the Traditional and Contemporary Worlds
175	BA	The impact of television on northern native communities
177	BA	Inuit subsistence in the 1990's: Harvesting, land use and society at Clyde River
183	BA	Native exogenesis of contemporary and traditional Inuit folklore and mythology
185	BA	Traditional Knowledge Study of the Beluga Whale in Belcher Islands
187	BA	Collection of traditional knowledge in the context of Nunavut
190	BA	Self-conceptions of elderly Inuit
192	BA	Native clothing of the North American Arctic: Igloolik clothing
196	BA	South Baffin Place Names Project

Ref #	Region	Research Title
198	BA	Inuit ecological knowledge as expressed through place names in the arctic
199	BA	History of the outpost camps of Frobisher Bay
201	BA,IN	Mirages: The secrets of Ancient Ruins
002	FS	Bear Habitat Use Research Study
004	FS	Basin - Wide Fall Burbot Collection
011	FS	Environmental Study of the Aquatic Resources of the Thonokeid Lake Area
012	FS	Environmental Study of the Aquatic Resources of the Thonokeid Lake Area
015	FS	Persistent organic contaminants in the Great Slave Lake Ecosystem
025	FS	Bear Hazard Assessment in the Rabbitkettle Lake Area of Nahanni National Park Reserve
027	FS,IN	Jack Pine Forest Research
028	FS	Environmental Studies of the Aquatic Resources in the Lac de Gras Area.
030	FS	Environmental Studies of the Aquatic Resources in the Prairie Creek Area
031	FS	Habitat Utilization and Fish Community Structure in the Snare River
042	FS	Estimation of the risk to the inhabitants of Fort Resolution of renal impairment related to the long-term consumption of traditional food contaminated by environmental cadmium
061	FS	Thematic Structural Studies in the Slave Province
066	FS	Granitic Pegmatites of the Canadian Cordillera
069	FS	Detailed Bedrock Mapping in the Winter Lake Supracrustal Belt
071	FS	Geology and Mineral Potential of the Camsell Lake - Mackay Lake Area.
075	FS	Detailed Bedrock Mapping, North East Quadrant of the Lac de Gras Sheet
078	FS	Detailed Bedrock Mapping in the Indin Lake Area
082	FS	Geology of the Nardin Lake Area, South-Central Slave Province
085	FS	Regional Bedrock Mapping of the Winter Lake - Lac de Gras Area.
089	FS	Dietary study of the Yellowknives Dene Band: Yellowknife Back Bay Project
094	FS	Factors affecting "no-shows" for the Orthopaedic Medical Clinic at a 135-bed primary acute care facility in the NWT

Ref #	Region	Research Title
098	FS,KI	Human Contaminant Trends in Arctic Canada (Cord Blood Monitoring)
111	FS	Freeze up and breakup observations on the Mackenzie River near Fort Providence
138	FS,KE,IN	High Latitude studies of the Ionosphere E-region Using the Sapphire North Radar System
141	FS	Shaped change injection of field-aligned barium and calcium plasma to investigate the physics of Mass-dependent ion acceleration
143	FS	NWT Teen Perspectives on Social Issues
152	FS	An application and Evaluation of Parks Canada's Visitor Risk Assessment Model in a Northern Canadian National Park - the Case of Nahanni Park
155	FS	A case study of grade 12 native students in a Northwest Territories high school
158	FS,IN,BA	Aboriginal self-government in Canada's NWT
159	FS	The Dene Cultural Institute
166	FS	Needs Assessment to Improve Service Delivery to Blind and Visually Impaired Aboriginal People: A pilot Project.
174	FS	An evaluation of water management studies and their application to policy development in the Mackenzie Delta
182	FS	Northern River Basins Study Traditional Knowledge Documentation Project
184	FS	Traditional Healing in Fort Simpson
191	FS	Dogrib Music-Making Documentation and Its Relationship to Dene Musical Expressions
195	FS	Rae Lakes Traditional Governance Project
003	IN	Banks Island Fish Populations / Char Genetic Variation Project
013	IN	Prescribed Fire and Wildlife Habitat Enhancement
023	IN	Ecological Studies Along the Gradient From Subarctic Forest to Tundra
024	IN	Biogeochemistry of Lakes in the Mackenzie Delta
033	IN,KI,BA	Environmental Study of Abandoned DEW Line Sites
041	IN	Forest and Forest Fire Studies in the Mackenzie Delta Ecosystem
047	IN,BA,KE	Meeting the Information Needs of Inuit Regarding Contaminants
049	IN	Burgess Shale - Type Fossils in the Mackenzie and Franklin Mountains



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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
062	IN	Geomorphologic and Hydrologic Analysis of Surface Features of the Mackenzie Delta, NT Using Spacial Image Analysis
063	IN	Stratigraphic and Sedimentology of Carboniferous to Triassic Strata
064	IN	Geotechnical Properties / Electrical Methods Development
073	IN	Peatland - Permafrost Mapping and Environmental Implications
077	IN,FS	Active Layer Monitoring Network in the Mackenzie Valley.
081	IN	Reconnaissance U-Pb geochronology, Southern Baffin Island
083	IN	Soil Climates of the Mackenzie Valley
093	IN	Lung health in Deline (Fort Franklin), NWT
095	IN,FS	Variance in food use in Dene/Metis Communities
097	IN,FS	Comparison of costs of health services provided in the Inuvik region: preparation for future oil and gas development
100	IN,FS	Royal Society evaluation of aquatic in the Mackenzie Basin
102	IN	Investigation of ground ice development in sediments of the Mackenzie Delta area
107	IN	Tracking arctic river water by geochemical means: Mackenzie Delta case study
112	IN	Coastal evolution and sedimentary processes in the Mackenzie Delta and Tuktoyaktuk Peninsula region
113	IN	BASE - Beaufort and Arctic Storms Experiment
115	IN	Derivation and Analysis of Climatic Information from Tree Rings
117	IN	Ecological and geomorphological investigations in the alpine tundra of the western Mackenzie Mountains
118	IN	Studies of the Environmental Effects of Disturbances in the Subarctic
124	IN	Permafrost studies: Western Arctic Coast
125	IN	Snow Accumulation, Melt, Runoff and Chemistry in High Latitude Permafrost Basins
126	IN	Ice thickness Topography Study - Beaufort Sea
130	IN	Palaeontology and Sedimentology of Late Proterozoic Reefs, Mackenzie Mountains, NWT

Ref #	Region	Research Title
133	IN	Geomorphological and hydrological research on valley formation in arctic and subarctic environments
139	IN	The Coastal Impacts of Climatic Change
144	IN	The impact of the Inuvialuit Final Agreement on the Inuvialuit
145	IN,FS	Effects of global warming on settlements and non-renewable resource development in the Mackenzie Basin to the year 2050
153	IN	Management of Northern Rivers For Recreation: An Assessment of Carrying Capacity and Management Strategies For the Mountain and Keele River Systems in the Sahtu Region, NWT
156	IN	Implementing the Environmental Assessment Provisions of Comprehensive Aboriginal Land Claim Settlements
157	IN	Community Development in Porcupine Caribou Co-management
163	IN,BA,FS,KE	Adolescent girls in the NWT: academic preparation and career planning
165	IN	Western Arctic Women Artists
167	IN,FS	The function of the Community Education Council as a conduit of information between the community and the Divisional Board of Education
169	IN	Process of musical transculturation among Inuvialuit of the Mackenzie Delta
180	IN	Dene subsistence practices in the Canadian Subarctic: long-term sustainability or short-term exploitation?
181	IN	Martin Zheh Ethnoarchaeology Project
186	IN	The Broad Whitefish Traditional Ecological Knowledge Study
188	IN	Tuktoyaktuk Traditional Knowledge Project
193	IN	Campbell Lake Park Oral History Project
194	IN	Gwichya Gwich'in Place Names Project (Phase 3)
197	IN	The Role of Traditional Knowledge in Inuvialuit Marine Mammal Management
007	KE	Qualitative Assessment of Local Terrestrial Plants and Identification of Potential Commercial Uses
008	KE	Assessment of Seaweed Species in the Whale Cove Area
009	KE	Phase 3 - Seaweed Commercialization Project: To Inventory and Test Harvest Seaweeds Found in the Whale Cove Area.

Ref #	Region	Research Title
035	KE	Test Commercial Arctic Char Fishery at Gore Bay, Repulse Bay.
038	KE	Maguse River Char Conservation Plan: Subsistence Harvest Survey
070	KE	Preliminary Geology and Mineral Potential of the Kaminak Lake Area
079	KE	The Dubawnt Super Group
084	KE	Regional Bedrock Mapping Studies in the District of Keewatin
087	KE	Evaluation of the Birthing Project in Rankin Inlet, NWT
162	KE,BA	Factors that Motivate Inuit Tradesmen to Complete Trade Apprenticeships
176	KE	Inuit women entrepreneurs: building sustainable small business
189	KE	Arviaq and Maguse River mapping and oral history project
201	KE	Itimnik Oral History Research Project
001	KI	Fisheries Reconnaissance Survey of Streams to be Crossed by the Proposed Izok Lake - Coronation Gulf Road
005	KI	Lake Trout Movements in Contwoyto Lake
020	KI	Species, Vegetation, and Spectral Diversity of an Arctic Riparian Ecosystem
032	KI	Environmental Studies of the Aquatic Resources of Spyder Lake
037	KI	Inshore Fishery Assessment and Training
067	KI	Geology of the High Lake Greenstone Belt
072	KI	Quaternary geology of the Point Lake and Contwoyto Lake
080	KI	Geological Mapping of the Avialik River Volcanic Belt
096	KI	Environmental factors affecting conductive hearing loss in Inuit children
119	KI	Arctic Hydrographic and Gravity Survey
123	KI	Hydrographic surveys: Canada's Western Arctic
150	KI	Inuit employment mobility study, Kitikmeot Region, NWT
178	KI	Project Supunger
091	NWT	A determination of factors influencing the health, knowledge, skills, attitudes and behaviours of children and youth in the Northwest Territories

Ref #	Region	Research Title
092	NWT	Factors predictive of long-term tenure in the recruitment of nurses for community health centre setting in the NWT
173	NWT	Survey of NWT Research Activities Conducted in 1993
179	NWT	NWT community organization wage and benefit survey

### Prince of Wales Northern Heritage Centre

204	BA	Archaeology of the 1577-78 Martin Frobisher Base Camp on Kodlunarn Island and related mine sites in Frobisher Bay
206	BA	Bathurst Island Archaeology Project
208	BA	1994 McDougall Sound Archaeology Project
212	BA	Resolute Bay Archaeology Project
214	BA	Igloodik Archaeology Field School
215	BA	Thule Whaling Project
216	BA	Archaeological survey of the Mountain Area, Ellesmere Island
217	BA	Archaeological Reconnaissance: North Baffin National Park Reserve
218	BA	Tungatsivvik Archaeology Project
219	BA	Mallikjuak Island Park Development
223	BA	Mount Oliver Thule Archaeology project
202	FS	Hosi Deh (Barrenlands River) Heritage Resource Inventory
203	FS	Drybones Bay Heritage Resource Inventory
207	IN	Tsiigetnjik Ethnoarchaeology Project
220	IN	Richards Island Archaeological Project
222	IN	Thomsen River Survey
209	KE	Arviaq Mapping and Oral History Project
213	KE	Traditional land use of the Sayisi-dene from pre-contact to contact to present
221	KE	Itimnik Research Project
205	KI	BHP Minerals Canada Ltd., NWT Diamonds

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**Ref #    Region    Research Title**

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210    KI            Project Supunger

211    KI            Franklin Survey Expedition

**Department of Renewable Resources**

239    BA            Speciation and Historical Biogeography of collared lemmings in NA

240    BA            Life history of caribou on Baffin Island

241    BA            Caribou winter population ecology study

246    BA            Breeding ecology of Greater Snow Geese

261    BA            Assessment of Creswell Bay for future protected area designation

269    BA            Peary Caribou Conservation

270    BA            Wolf behaviour and Ecology

271    BA            Studies of the migration, ecophysiology and energetics of shorebirds

291    BA            Retention rate of the immobilizing drug Telazol in the tissue of Polar

292    BA            Kinetics of PCBs and DDE in the adipose tissue and milk of Polar bears

293    BA            The Breeding ecology of Greater Snow Geese on Bylot Island

300    BA            Observation Bird Surveys

303    BA            Avifaunal survey of lesser known areas of Foxe Basin, NT.

304    BA            Inventory of high Arctic/Baffin Bay polar bear populations

310    BA            Ellesmere Island National Park Service Wildlife Study

227    FS            Fort Providence Moose Study

228    FS            Fire, Fur, Moose

232    FS, KI        Nutrients of Canada geese nesting in the central Canadian Arctic

234    FS            A survey of disease, parasites and environmental contaminants in Caribou

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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
236	FS, IN	Organochlorine and heavy metal contaminants in fish-eating furbearers
243	FS	Slave River lowlands bison population studies
244	FS	Vaccination of adult male bison
245	FS	Summer forage selection strategies of bison
247	FS	Comparison of boreal forest bird communities in Siberia and Canada
250	FS	Abundance and productivity of waterfowl breeding in the boreal forest
252	FS	Factors influencing distribution and abundance of the spruce grouse
262	FS	Assessment of Mills Lake as a staging area for geese and ducks
268	FS	An investigation of the Tundra Ecosystem
287	FS, IN	Lynx and Marten Carcass collections
288	FS	Mackenzie Bison Sanctuary Lynx Study
289	FS, IN	Snowshoe hare population monitoring
290	FS	Amphibian Surveys
294	FS	Prairie Creek Wildlife and Vegetative assessment evaluation
295	FS	NWT Diamonds environmental monitoring program
297	FS	Monitoring abundance of small mammals
301	FS	Western Canada Cooperative Waterfowl Banding Program
305	FS, IN	Cooperative US/Canadian Waterfowl Population Survey
307	FS	Wildlife management studies on the Beverly caribou herd
226	IN	Muskox Harvest
229	IN	Spring harvest of waterfowl study

Ref #	Region	Research Title
237	IN	Survey of disease, parasites, and contaminants in the Bluenose Caribou her
248	IN	Tetraonid Comparative Behaviour
249	IN	Distribution abundance and survival of geese and swans in the Inuvialuit
251	IN	Populations and habitats of Pacific Brant on Banks Island, NWT.
255	IN	Distribution, abundance and productivity of waterfowl at Brackett lake
256	IN	Studies of the environmental effects of disturbance in the subarctic
258	IN	IPL wildlife monitoring
259	IN	Banks Island Range Study
260	IN	Condition of Peary Caribou on Banks Island
266	IN	Forest burns and their importance to furbearers and ungulates
267	IN	Dalls sheep composition and habitat selection in the front range
274	IN	Banks Island Caribou and Muskox Census
275	IN	Monitoring of commercial muskox harvest on Banks Island
296	IN	Environmental study of abandoned DEW line sites
302	IN	Seasonal movements and abundance of Polar Bears
306	IN, KI	Ecological factors that influence population dynamics of the Herd
231	KE, BA	Tall Grass Prairie Canada Geese Marking
242	KE, BA	CWS seabird monitoring program
253	KE	Disturbance of nesting Peregrine Falcons
254	KE	Pesticide contamination, nest site occupation, and competition
263	KE	Salvage osteological material for the U of Wisconsin
272	KE	Qamanirjuaq Caribou spring Composition and satellite collaring

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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
273	KE	Qamanirjuaq Caribou spring Composition and satellite collaring
286	KE	Raptor and Shorebird Surveys
298	KE, FS	Muskox population estimates for Thelon Game Sanctuary
308	KE	Conduct classification counts of the herd in march
309	KE	Photographic census of the Qamanirjuaq calving ground
224	KI	Arctic fox predation on Ross and Snow Goose nests
225	KI	Population biology and nutritional ecology of Ross Geese
230	KI	Waterfowl of the Central Arctic
233	KI	King Eider Abundance on Western Victoria Island
235	KI	A survey of environmental contaminants in wolves from Cambridge Bay
238	KI	Survey of environ. contaminants in local flora and fauna
257	KI, IN	Lemming population fluctuations in the eastern and western arctic
264	KI	Wolverine ecology in the central arctic
265	KI	Wolverine harvest collection program
276	KI	Distribution and Abundance of muskoxen on Boothia Peninsula
277	KI	Calving ground survey of western Victoria Island
278	KI	Seasonal movements of Victoria Island Caribou
279	KI	Status of muskoxen in the Rae-Richardson River Valley
280	KI	Identify caribou on Victoria Island, body condition and composition of wolves
281	KI	Aerial survey of muskoxen on Melbourne Island
282	KI	Caribou on King William Island: A study on TK of Gjoa Haven Residents
283	KI	Body condition survey of hunter killed Caribou



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<b>Ref #</b>	<b>Region</b>	<b>Research Title</b>
284	KI	Identify lungworm infecting muskoxen in the Rae and Richardson River Valley
285	KI	Late winter body condition of muskoxen in western Victoria Island
299	KI	Monitoring nesting success of Coppermine Gyrfalcons