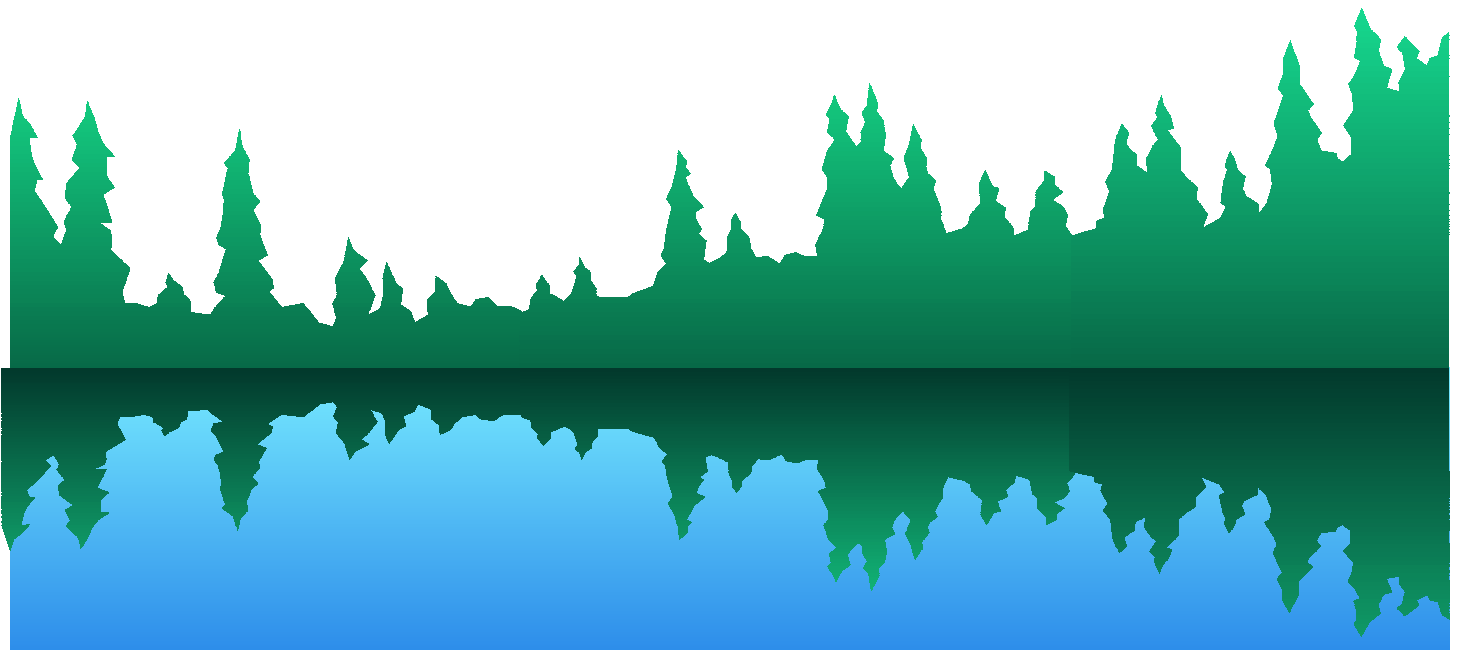


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# **COMPENDIUM OF RESEARCH IN THE WESTERN NORTHWEST TERRITORIES 1995**

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

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**AURORA RESEARCH INSTITUTE  
AURORA COLLEGE**

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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: (403) 979-4029  
Fax: (403) 979-4264  
E mail: colinb@inukshuk.gov.nt.ca

June 12, 1996

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## FORWARD

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The need for scientific and technological training, and technology development for northern environments, is increasingly recognized by the people, the governing agencies and the private sector of the Northwest Territories. Training will allow northerners to adapt to the rapidly changing social and economic structure of the Arctic region, and to influence the changes that will occur by participating in the design of sustainable technologies and programs.

The Aurora Research Institute (ARI) fills a leadership role in the development of strategic partnerships to meet the needs for education, research and adaptive mechanisms for change in the western Arctic. ARI actively promotes partnerships with government agencies, non-governmental organizations, community groups and private sector organizations in order to identify research needs and strategies to meet these needs, especially at the community level.

Individual researchers from across Canada and the circum-polar region are also partners in these endeavours. Through the licensing process, community groups are informed about current and proposed research in their area. ARI is taking a leading position in training community members to participate in research projects in their communities. Researchers can also inform and educate northerners through school and community presentations. Researchers can then involve Aboriginal people and all northerners, with their traditional knowledge, in the employment opportunities presented by the research activities. Employment in research projects gives northerners an understanding of career opportunities in various fields of science and technology.

This Compendium helps to fulfil the mandate of ARI to involve northerners in science and technology. By participating in the Compendium, researchers are partners in making research accessible to northerners.

David G. Malcolm, PhD  
Director  
Aurora Research 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 western Northwest Territories during 1995. A separate Compendium, that includes licences/permits for the eastern NWT for 1995, can be acquired through the Nunavut Research Institute in Iqaluit. 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 requires a licence/permit from one of four 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
- ▶ Aurora Research Institute - all other research in the western NWT (Fort Smith and Inuvik Regions)
- ▶ Nunavut Research Institute - all other research in the eastern NWT (Baffin, Keewatin, Kitikmeot)

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 western 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 Aurora Research Institute'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. Index

At the back of this book, you will find a researcher index. This has been developed to help the reader cross reference material more easily. The numbers listed in the index 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 or telephone.

# Aurora Research Institute

## Science Licences

### Biology

001                      Biology

**Ash, Neville**

1 Denbank Drive  
Sheffield, England S10 5PE

Reference #: 12 402 582

Region: IN              Location: Franklin Mountains

Other members of team: A. Hall, M. Shearer, T. Webb, P. Coyle, Z. Ford, M. Gardiner, P. Harper, F. Johnston, D. Machim, L. Stewart, B. van Kesteren

#### **Collection of Dwarf Willow (*Salix* Sp.). Specimens for Research on Atmospheric CO<sub>2</sub> Concentrations**

The researchers field collected and preserved dwarf willow leaf specimens. Further, note was made of habitat of specimens (aspect, slope angle, drainage, accompanying vegetation, etc). Site locations were determined using a global positioning system (altitude/latitude/longitude) for map plotting. Samples were analysed on return to the United Kingdom for leaf stomatal density (an indicator of atmospheric CO<sub>2</sub> concentrations). Not completed.

002                      Biology

**Ashton, Sandra**

Faculty of Environmental Design  
University of Calgary  
Calgary, Alberta

Reference #: 12 402 565

Region: FS              Location: Nahanni National Park Reserve

Other members of team: B. Benn, L. Ciarniello, S. Herrero (Supervisor)

#### **Grizzly and Black Bear Habitat Use Study and Bear Hazard Assessment of the Rabbitkettle Lake Area of the Nahanni National Park Reserve**

Data collection for food habits analysis involved collection and analysis of bear scats and will be supplemented by direct observation of bears in the field. Feeding or other sign (e.g., mark tree, digging, tracks) site investigations will be carried out, recording inventory, cover value and phenology of all potential bear foods present and taking measurements pertinent to the type of sign observed. Potential food samples would be collected.



003 Biology

**Bryant, Wayne**

Bryant Environmental Consultants Ltd.

5016 48th Street

Box 1324

Yellowknife, Northwest Territories X1A 2N9

Reference #: 12 402 583

Region: FS Location: Lac de Gras region

Other members of team: Penner & Assoc., Acres, Vista Eng., SBG, N.W. Labs, Challenger Surveys, FMA, Dogrib Treaty 11, Yellowknife Dene, Bathurst A.S.

**Phase 2 Environmental Baseline Program: Aber / Kennecot Southwest Diavik Property, Lac de Gras, NWT**

The researchers were involved in a multi-disciplined, integrated and focused series of investigation of water quality, hydrology and climatology, fisheries, wildlife, vegetation, soils and terrain, and heritage resources. Taken with complementary socio-economic, traditional knowledge and environmental management investigations, this data was used to prepare an environmental evaluation of the Aber/Kennecot diamond project.

---

004 Biology

**Cooch, Evan**

Department of Biological Sciences

Simon Fraser University

Burnaby, British Columbia V5A 1S6

Reference #: 12 402 580

Region: IN Location: Banks Island

Other members of team: F. Cooke; M. Samuel; J. Takekawa

**Demography and Management of the Wrangel Island - Banks Island Metapopulation of Lesser Snow Geese**

The researchers captured and banded moulting Lesser Snow Geese in the Egg and Big River valleys on Banks Island. Flightless geese were herded into large holding pens. Each bird was measured, weighed and banded. A sample of birds were swabbed to determine the presence of avian cholera. These birds were fitted with radio collars. Various methods of productivity were recorded. Marked individuals were followed during fall and winter.

---

005 Biology

**Davis, Luci**

BHP Diamonds Inc.

Suite 1102, 4920 52nd Street

Yellowknife, Northwest Territories X1A 3T1

Reference #: 12 402 578

Region: FS Location: Lac De Gras area

Other members of team: BHP/Rescan employees

**NWT Diamonds Project: Revegetation Research**

The information from this project will be used for future reclamation planning. This is the initial phase of a long term study for BHP. The study was designed for statistical validation. The study area was monitored and the data will be available in an annual report.

---

006 Biology

**Gillespie, Lynn**

Canadian Museum of Nature  
Box 3443, Station D  
Ottawa, Ontario K1P 6P4

Reference #: 12 402 572

Region: IN Location: Tuktoyaktuk, Nicholson Island, Inuvik

Other members of team: one field assistant (to be chosen)

**Hybridization and genetic variation in arctic grasses: molecular, morphological and ecological evidence**

The researcher collected living plants (Arctic grasses), 6-10 species from each collection site. In addition, several plants of each species were pressed and dried as voucher specimens to be used to check the identification. Photographs of the plants and their habitats were made. In Ottawa, variations in DNA among different populations and species were analysed to study species relationships and hybridization events in the genus *Poa*.

---

007 Biology

**Henry, Greg H. R.**

Department of Geography  
University of British Columbia  
217-1984 West Mall  
Vancouver, British Columbia V6T 1Z2

Reference #: 12 402 421

Region: IN Location: Lower Anderson and Horton River valleys, and Tuktoyaktuk Peninsula

Other members of team: K. McLeod, J. Hamilton

**Ecology of White Spruce Populations Beyond Present Treeline**

The researchers measured various parts of trees and took seed samples found on tree islands. They took small cores from the base of the largest stems to determine the age and growth rates. The tree rings can show how well the trees were growing in the past, and this can be related to changes in the climate.

---

008 Biology

**Hubert, Ben**

Box 277  
Yellowknife, Northwest Territories X1A 2N2

Reference #: 12 402 587

Region: FS Location: Yellowknife Bay, Northwest Territories

Other members of team: self

**Environmental Screening and Review of a Proposed Marina**

A standard seine net was drawn through the shallows of two small bays proposed for marina development. Fish were collected, preserved and identified.

---

009 Biology

**Little, Alison**

Department of Biological Sciences

University of Alberta

Edmonton, Alberta T6G 2E9

Reference #: 12 402 584

Region: FS Location: lower Slave River at Fort Smith

Other members of team: W. Tonn, R. Tallman, J. Reist, K. Howland

**Food and Habitat Use Among Fishes of the Slave River, NWT**

The researchers sampled the fishes in three areas (below the rapids at Fort Smith, at the mouth of the Salt River, and in the delta) throughout the open-water season to monitor broad patterns of habitat distribution of the different species and different sizes/ages of each species. Fish were collected by use of multi-mesh gill nets, set lines and seines. Fish measurements, aging structures (scales, otoliths) and gut contents were collected for analysis.

---

010 Biology

**Reed, Shawna**

RESCAN

6th Floor, Coopers and Lybrand Building

1111 West Hastings Street

Vancouver, British Columbia V6E 2J3

Reference #: 12 402 562

Region: FS Location: Lac De Gras area

Other members of team: RESCAN Employees

**Environmental assessment/monitoring studies of the aquatic resources in the Lac De Gras area**

The researchers utilized the following techniques for assessing aquatic biota and fish habitat utilization: gillnetting (various sizes and meshes), trapnetting (mark-recapture program), minnow-trapping and electroshocking (backpack model). A select number of fish were retained for aging (using otoliths), tissue metals concentrating and diet analysis.

---

011 Biology

**Roney, Keith**

Royal Saskatchewan Museum

2340 Albert Street

Regina, Saskatchewan S4P 3V7

Reference #: 12 402 486

Region: IN Location: Mackenzie Delta

Other members of team: H. Serger; Artist (to be named at later date)

**Waterfowl and Shorebird Nesting Habitat Study in the Mackenzie Delta, Northwest Territories**

The researchers conducted an aerial survey of the Mackenzie Delta area to note the nesting habitats of waterfowl and shorebirds. Photographs (slides and video) were taken as well as notes and sketches that will be applied to the design and planning of an exhibit for the Royal Saskatchewan Museum. A small plant collection (2-3 specimens of the most common plant species) were obtained to be used as models for artificial plants for the exhibit.

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012                      Biology

**Royer, Ronald A.**

Division of Science

Minot State University

Minot , North Dakota, USA 58707

Reference #: 12 402 577

Region: BA            Location: Edehon Lake

Other members of team: D. Royer

**Investigation of Distribution and Range Boundaries for Some Common Subarctic Insects Occurring at or Near Treeline**

The researcher investigated range boundaries and species intergrade zones. The researcher also defined ecological limiting factors for selected species of common arctic insects, principally in the order of Lepidoptera. This data filled numerous gaps in understanding distribution and speciation for the targeted species, the ranges of many of which were assumed but not confirmed.

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013                      Biology

**Schwert, Donald P.**

Department of Geosciences

North Dakota State University

Fargo, North Dakota, U.S.A. 58105-5517

Reference #: 12 402 508

Region: IN            Location: Holman, Yellowknife

Other members of team: H. Torpen

**The molecular population genetics of the arctic-alpine ground beetle species *Amara alpina***

The sample of arctic-alpine ground-beetles were collected from under rocks and by pitfall traps (dixie cups placed in 8 cm diameter drilled holes) in the tundra habitat. All rocks were replaced exactly and pitfall trap holes refilled with their soil plugs. No chemicals were used in any of the trapping or collecting. Specimens were analysed using DNA techniques which include RLPF's and PCR of mitochondrial genes back at the University of North Dakota.

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014                      Biology

**Somji, Feisal**

Environmental Manager

Canamera Geological Ltd.

540, 220 Cambie Street

Vancouver, British Columbia V6B 2M9

Reference #: 12 402 576

Region: KI            Location: Ranch Lake

Other members of team: M. McPhie, T. Clayton

**Ranch Lake Environmental Base-line Study**

The researcher conducted an intensive gillnetting program using multi-mesh gillnet gangs to determine the size and characteristics of fish populations in the project area. Both floating and bottom sets were used, perpendicular and parallel to the shoreline. It was proposed that 40 fish of each species found would be taken from each lake sampled.

---

015 Biology

**Tremblay-Reinhardt, Nicolas-Olivier**

Department of Biology

McGill University

Locteur Penfield Avenue

Montreal , Quebec H3A 1B1

Reference #: 12 402 586

Region: FS, IN Location: most communities in both Fort Smith and Inuvik Regions

Other members of team: other researchers to be determined

**Molecular population genetics and phytogeography of arctic flora**

The researchers collected samples of each plant species (*Dryas integrifolia* and *Erinophorum angustifolium*) communities. Non-destructive seed and leaf samples were randomly taken from 30 individual plants within sample patches over a one day period in each of the communities. No camp sites or use of vehicles such as ATV's were utilized

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016 Biology

**Wein, Ross W.**

Department of Renewable Resources

University of Alberta

751 General Services Building

Edmonton, Alberta T6G 2H1

Reference #: 12 402 350

Region: FS Location: Fort Smith area and Fort Simpson area

Other members of team: R. Gal, I. Nader, B. Sanders, M. Liston, H. Brungs, Q. Botroff, S. Dedio, L. Wood, D. Wein, S. Nalder.

**Fire regimes in the western boreal forest and post-fire dynamics of the forest: implications for forest fire management and climate change.**

The researchers sampled 200-300 forest stands in Wood Buffalo National Park and surrounding areas as well as in the Fort Simpson area. A number of measurements were taken in each site as well as soil cores and sections of decomposing logs and snags. These were taken to the U. of A. for analysis. In addition, sediment cores were taken in lake sediment and/or peatlands for stratigraphy and morphology analysis.

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# Contaminants

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017                      Contaminants

**Evans, Marlene**

Ecosystem Evaluation Division  
National Hydrology Research Institute  
11 Innovation Boulevard  
Saskatoon, Saskatchewan S7N 3H5

Reference #: 12 402 503

Region: FS              Location: Fort Resolution, Lutsel K'e

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

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

The researchers collected samples of sediments from the bottom of Great Slave Lake at sites near Fort Resolution and Lutsel K'e. These data allow a better understanding of how fast sediments are deposited on the lake bottom in various regions. Researchers also collected invertebrates and fish samples as part of an overall study of contaminants in the lake's ecosystem.

---

018                      Contaminants

**Fehr, Alan**

Aurora Research Institute  
Box 1450  
Inuvik, Northwest Territories X0E 0T0

Reference #: 12 402 581

Region: IN              Location: Aklavik Clearing Lake and associated wetlands

Other members of team: Jacob Archie, Mae Cockney, Pravleen Jagpal, Dwayne Sample

## **Water Quality of Aklavik Clearing Lake and Associated Wetlands**

The researchers determined what impact sewage effluent from the Hamlet of Aklavik is having on the water quality and biota downstream. A literature review was completed. Interviews with people having camps in the delta and field observations gave an idea of past and present distribution of wood frogs. Water quality samples were taken and wetland biota was described.

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019                      Contaminants

**Roach, Pat**

Area Studies Scientist

Water Resources, Northern Affairs Program

355 - 300 Main Street

Whitehorse, Yukon Y1A 2B5

Reference #: 12 402 579

Region: IN              Location: Hendrickson Island

Other members of team: M. Olsen

**Giardia in Marine Mammals**

Samples were initially evaluated on a presence/absence basis and taken further if warranted. The gene probe analytical technique is new and was employed for all positive samples. Results were published in a report format which would be submitted to FJMC and the HTC. A paper would also be produced for publication in a referred Journal.

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# Fossils

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020                      Fossils

**Cumbaa, Stephen**

Canadian Museum of Nature

Box 3443, Station D

Ottawa , Ontario K1P 6P4

Reference #: 12 412 030

Region: IN              Location: Anderson River area near Ewariege Lake

Other members of team: H.P. Schultze, M. Otto, R. Day

## **The Evolution and Interrelationships of Lungfish**

The researchers collected samples of Devonian-age rocks in which evidence of fossil fish (primarily lungfish) are present and took them back to the museum laboratory for preparation, study and comparison with other samples in the Museum's collection. All work was done by hand tools in the field (hammers and chisels).

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021                      Fossils

**Durham, J. Wyatt**

Professor Emeritus of Palaeontology

Museum of Palaeontology

University of California

Berkeley, California, U.S.A. 94720

Reference #: 12 412 043

Region: IN              Location: Peel River Crossing area

Other members of team: J. B. Durham; D. Young

## **Cretaceous and Younger Fossil Fauna from the area along the Peel River, NWT, Canada**

The researchers collected specimens of fossil molluscs exposed in critical areas. This involves simply breaking rocks loose from their location. No excavation deeper than 1 foot is contemplated. Localities were marked on topographic maps and measurements of sections exposed in river banks were made. Analysis was completed in California. Significant specimens were returned to the Science Institute or the National Museum in Ottawa.

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022 Fossils

**Jetté, Hélène**

Geological Survey of Canada  
Terrain Sciences Division  
601 Booth Street, Room 609  
Ottawa , Ontario K1A 0E8

Reference #: 12 412 033

Region: IN Location: Lakes in and around Inuvik

Other members of team: A. Jetté

**Palynology (Mackenzie Valley Global Change), Study of the Climatic Change Along the Mackenzie River and on the Arctic Islands.**

The researcher sampled a variety of lakes (some 50 lakes altogether) around Inuvik. A hole, approximately 8 inches in diameter, was bored through the ice in each lake. Using an Ekman sampler, lake bottom sediments (mud) were collected for analysis in the lab. The researchers got to each lake by helicopter and spent approximately 15 to 20 minutes at each lake.

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# Geology

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023                      Geology

**Bleeker, Wouter**

Geological Survey of Canada

Rm. 461 - 601 Booth Street

Ottawa , Ontario   K1A 0E8

Reference #: 12 404 506

Region: FS              Location: Northeast of Yellowknife; 112-114 W & 62-64 N.

Other members of team: two members to be decided

## **Thematic Structural Geological Bedrock Mapping Project**

The researchers performed daily geological traverses by foot and by boat with occasional fixed wing support.

Proposed products of this project includes geological compilation maps, a collection of geochemical, geochronological, petrological and structural rock samples and computerized data.

---

024                      Geology

**Boyes, Donald M.**

Department of Geography

Social Science Centre

University of Western Ontario

London , Ontario   N6A 5C2

Reference #: 12 404 509

Region: IN              Location: the Mackenzie Delta

Other members of team: L. DeBastien, Olivia Nugent

## **Geomorphological analysis of the Mackenzie Delta, NWT using spatial image processing.**

The collection of the field data was required to calibrate 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 was destroyed or removed.

---

025                      Geology

**Clowes, R. M.**

University of British Columbia

357 - 6339 Stores Road

Vancouver, British Columbia   V6T 1Z4

Reference #: 12 404 517

Region: FS              Location: Fort Smith Region

Other members of team: R. Ellis, I. Asudeh

## **Deep Probe: A Lithosphere - Asthenosphere Refraction Seismic Experiment**

This "Deep Probe" seismic refraction experiment recorded energy as deep as the asthenosphere (may be as deep as 200 km below the earth's surface). The experiment makes use of sufficient power at low frequency to transverse these great distances.

---

026                      Geology

**Groat, Lee A.**

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

Reference #: 12 404 488

Region: FS              Location: The Selwyn Mountains north of Tungsten

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

**Granitic Pegmatites of the Canadian Cordillera**

The researchers continued their study, begun 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 pegmatites, including detailed information on their classification, origins and economic potential.

---

027                      Geology

**Lowe, Carmel**

Pacific Geoscience Centre  
9860 West Saanich Road  
Sidney, British Columbia V8L 4B2

Reference #: 12 404 516

Region: FS              Location: Southwestern Great Slave Lake

Other members of team: D. Seemann

**Region Gravity Survey - Southwestern Great Slave Lake**

The researchers measured gravity readings and soundings at specified stations on the frozen ice. In addition a latitude and longitude fix was taken at each station.

---

028                      Geology

**Nixon, Mark F.**

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

Reference #: 12 404 398

Region: FS, IN        Location: Mackenzie Valley

Other members of team: A. Taylor, F. Wright

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

For this ongoing study, measurements, such as maximum depth of thaw and soil surface movements, recorded after previous visits were collected. Monitoring apparatus were reset this season. Sites in the Mackenzie Delta, from Tsiigehtchic (Arctic Red River) to Tuktoyaktuk was visited in Mid-April. Most sites from Fort Simpson to Tuktoyaktuk were visited during late July, early August.

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029                      Geology

**Pehrsson, Sally**

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

Reference #: 12 404 504

Region: FS              Location: Indian Lake area

Other members of team: One geology student to be determined

**Detailed bedrock mapping in the Indian Lake area**

This was the researcher's concluding summer for this project. The detailed mapping data (structural, petrological) in combination with the geochemical and geochronological sampling was accomplished by foot and boat traverses with the occasional fixed and rotary wing support. All data was entered digitally for computer map compilation.

---

030                      Geology

**Perks, Matthew**

1-26 Earth Science Building  
University of Alberta  
Edmonton , Alberta T6G 2E3

Reference #: 12 404 520

Region: FS              Location: MacNaughton Lake area

Other members of team: T. Chacko, R. L'Heureux, N. Slemko

**Igneous and Metamorphic Evolution of the Deep Crust of the MacNaughton Lake Area, Slave Providence, NWT**

The researchers achieved detailed mapping of granitic - metasedimentary contacts by relying on detailed documentation of mineral assemblages, textures, metamorphic grade, and relative timing of the meta-sedimentary and meta-igneous rocks in the MacNaughton Lake area. Isotope U-Pb studies of granite and metasediment minerals were used to contain the absolute timing of intrusion and metamorphism. Rock samples for this work were collected using a hammer.

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031                      Geology

**Stubley, Mark**

Mineral Initiative Office  
GNWT, Energy Mines and Petroleum Resources  
Box 1320  
Yellowknife, Northwest Territories X1A 2L9

Reference #: 12 404 382

Region: FS              Location: Carp Lake area , south-central Slave Province

Other members of team: T. Tyler

**Geology of the Carp Lakes Area, South-Central Slave Province**

The researchers 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 of the area.

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# Health

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032

**Seddon, Laura**

Regional Cord Blood Program Coordinator

Mackenzie Regional Health Service

Box 520

Yellowknife, Northwest Territories X1A 2N4

Reference #: 12 408 106

Region: FS, KI Location: Mackenzie Health Region

Other members of team: J. Walker, A. Corriveau, members of the Mackenzie Consultation Working Group.

**Human Contaminants Trends in Arctic Canada: Maternal / Cord Blood Monitoring for Environmental Contaminants**

Women were introduced to the program at community Health Centres. Those women who gave consent were first given a short survey to complete. Once at Stanton Yellowknife Hospital to deliver their babies, as part of their routine hospital procedure, blood samples were taken during delivery.

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## WESTERN NORTHWEST TERRITORIES

Including: Wildlife Permits,  
Scientific Licences, and  
Archeological Permits

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# Physical Sciences

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033                      Physical Sciences

**Burn, Chris R.**

Department of Geography

Carleton University

1125 Colonel By Drive

Ottawa, Ontario K1S 5B6

Reference #: 12 404 325

Region: IN              Location: Mackenzie Delta near Inuvik; Richards Island

Other members of team: Alex Elaniak

**Investigation of ground ice development in the sediments of the Mackenzie Delta area.**

The researcher collected samples of ground ice in near-surface sediments and measured air, ground and lake temperatures. The information was used to help understand how the permafrost in the area has changed in the last few thousand years, in order to determine what might happen in the future.

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034                      Physical Sciences

**English, Michael**

Cold Regions Research Centre

Wilfred Laurier University

75 University Avenue West

Waterloo, Ontario N2L 3C5

Reference #: 12 404 425

Region: FS              Location: Slave River Delta near Fort Resolution

Other members of team: M. Stone, B. Hill, R. Ormson, S. Fassnacht

**Hydrology and geomorphology studies on the Slave River Delta, Northwest Territories**

The researchers examined three things. First examined was the change of landforms since 1977. Landforms were surveyed and sediment sampled in order to measure how much sand, silt, and clay, are in the deposits. Secondly, the researchers analysed the sediment for different chemicals which originate from Slave River. Thirdly, they measured the elevation of channels along their entire length, measured discharge and sampled the suspended sediment in the channels

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035                      Physical Sciences

**Kershaw, G.P.**

Department of Geography

University of Alberta

Edmonton, Alberta T6G 2H4

Reference #: 12 404 116

Region: IN              Location: Fort Norman area

Other members of team: L. Liang, I. Drysdale, D. Beilman

**Studies of Environmental Effects of Disturbances in the Subarctic (SEEDS).**

The research was to see what happens after the surface of 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 were being tested to see which are best. Many studies were done, including measurement of: air and soil temperature, wind speed, moisture, water movement, permafrost, snow, plants and small animals.

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036                      Physical Sciences

**Kershaw, G.P.**

Department of Geography

University of Alberta

Edmonton, Alberta T6G 2H4

Reference #: 12 404 116

Region: IN              Location: Canol Road

Other members of team: L. Liang, I. Drysdale, D. Beilman

**Ecological and geomorphological investigations in the alpine tundra of the western Mackenzie Mountains**

Since 1974 permafrost bodies in the study area have been under investigation with intensive work starting in 1990. Since 1977, CANOL disturbances have been subject to ecological investigation. These investigations include the year round operation of automated weather stations, on site monitoring of changes in the characteristics of the study landforms and assessing the vegetation and methods of improving revegetation on northern surface disturbance.

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037                      Physical Sciences

**Kikuchi, Katsuhiro**

Division of Earth and Planetary Science

Graduate School of Sciences

Hokkaido University

Sapporo 060, Japan

Reference #: 12 404 523

Region: IN              Location: Inuvik Research Centre, Aurora Research Institute

Other members of team: Yoshio Asuma, Masahiro Kajikawa, Noboru Sato, Yusuke Inoue, Hiroshi Uyeda, Ken-ichi Sakurai, Tadahiro Hayasaka, four local hires.

**Studies on Water Vapour, Aerosol and Snow Crystals in the Arctic**

The main observations were conducted from the middle of December to the end of January at the Inuvik Research Centre. Some instruments were operated from the beginning of November. Vertical pointing Doppler radar, precipitation measuring instruments, microwave radiometer, pyranometers and automated weather station was set up. This data was stored by personal computer and digital data collection system.

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038 Physical Sciences

**Lesack, Lance F.W.**

Department of Geography  
Simon Fraser University  
Burnaby, British Columbia V5A 1S6

Reference #: 12 404 485

Region: IN Location: Mackenzie Delta near Inuvik

Other members of team: M. Cobbett, A. Porter, W. Kolenchuk

**Biochemistry of Lakes in the Mackenzie Delta**

The researchers focused on two locations. At the Havik Pak Creek site, research involved examining the chemistry of stream water and the chemistry of lakes within selected sub-basins during the snowmelt period. At the NRC Lake and South Lake site, the research involved measuring how well algae communities are able to grow when they experience concentrations of suspended sediments over different lengths of time.

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039 Physical Sciences

**Mackay, J. Ross**

Professor Emeritus  
Department of Geography  
University of British Columbia  
Vancouver, British Columbia V6T 1Z2

Reference #: 12 404 247

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

Other members of team: Self

**Permafrost Studies: Western Arctic Coast**

This study has been part of a long-term study first initiated in 1951. The researcher collects data that allows better understanding of the growth of the ice wedges, pingos and permafrost.

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040 Physical Sciences

**Marion, Christine**

Department of Biological Science  
University of Alberta  
Edmonton, Alberta T6G 2E9

Reference #: 12 402 585

Region: FS Location: Fort Liard

Other members of team: D.H. Vitt (supervisor), D. Gignac (co-supervisor)

**Development of Permafrost Peatlands in Continental Northwestern Canada**

Through the recording of past vegetative conditions the researchers hoped to elucidate the timing and processes involved in the development of permafrost peatlands in continental northwestern Canada. Results from the peat cores could aid in evaluating the environmental effects that predicted climate change will have on these ecosystem.

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041 Physical Sciences

**Marsh, Philip**

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

Reference #: 12 404 378

Region: IN Location: Trail Valley Creek (WSC Station sites)

Other members of team: J. Pomeroy, B. Quinton, C. Onclin, B. Reid, Natasha Neumann, plus several field assistants

**Snow Accumulation/Melt/Runoff/Chemistry In High Latitudes Permafrost Basins**

As part of a long-term study, the researchers look at the role of the snow cover in controlling both streamflow and the movement of solutes/nutrients/pollutants through both tundra and forested ecosystems. Work consists of measuring amounts and distribution of snow, streamflow and release of solutes/nutrients/pollutants in two river basins at the end of winter.

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042 Physical Sciences

**Melling, Humfrey**

Ocean Physics Division  
Institute of Ocean Sciences  
Box 6000  
Sidney, British Columbia V6L 4B2

Reference #: 12 404 248

Region: IN Location: offshore Beaufort Sea

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

**Ice Thickness Topography Study - Beaufort Sea**

The researchers retrieved untended sonar instruments operating beneath the sea that were positioned in April 1994. After servicing, these instruments were re-deployed at the same locations to continue the observations for another year. A survey of water properties were collected at about 20 sites in the offshore, and observations were made using a probe lowered to 1500 m depth or to the seafloor, whichever is shallower.

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043 Physical Sciences

**Orr, Dwayne**

National Scientific Balloon Facility  
Box 319  
FM Road 3224  
Palestine, Texas, U.S.A. 75802-0319

Reference #: 12 406 029

Region: IN Location: Inuvik

Other members of team: E. Klein; NSBF staff; O.Y. Nechaev; V.I. Zatsepin; A. Apanasenko; J. Lee; J. Adams.

**NASA Long Duration Balloon Program**

The purpose of the campaign was twofold. The first was to fly research instrumentation aboard large scale scientific balloons to measure cosmic ray particles entering the earth's atmosphere. The second is to conduct a demonstration flight of newly developed long duration balloon systems for the LDB program. The northern latitudes are desired because of favourable geomagnetic influences on particles and improved altitude performance due to extended daylight.

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044                      Physical Sciences

**Pettit, George Robert**

Director

Cancer Research Centre

Box 872404

Tempe, Arizona, U.S.A. 85387

Reference #: 12 404 521

Region: IN              Location: along Dempster roadway near Fort McPherson and Tsiigehtchic

Other members of team: self

**Anticancer Agents from Microorganisms**

The researcher collected by hand, usually along the roadside, approximately several grams of soil and mud specimens to be returned to the Cancer Research Institute laboratories for evaluation for microorganism constituents which may have potential anticancer activity.

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045                      Physical Sciences

**Robinson, Stephen D.**

Department of Geography

McGill University

805 Sherbrook St. West

Montreal, Quebec H3A 2K6

Reference #: 12 404 519

Region: FS              Location: Fort Simpson

Other members of team: L. Liblik, I. Kettles, J. Bubier

**Organic Carbon Dynamics and Accumulation in Discontinuously Frozen Peatlands**

Research was conducted in a fen-bog complex approximately 5 km west of Fort Simpson. Gas samples were obtained using portable chambers and later analysed using gas chromatography. Cores were collected using a peat corer and a modified ice auger. Peat temperatures, water levels, plant growth rates and water chemistry were also measured. Geophysical mapping using ground penetrating radar was used to map peat and permafrost characteristics.

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046                      Physical Sciences

**Solomon, Steven**

Environmental Marine Geology

Bedford Institute of Oceanography

Box 1006

Dartmouth, NS B2Y 1B7

Reference #: 12 404 319

Region: IN              Location: Richards Island, Tuktoyaktuk Peninsula, Mackenzie Delta Front

Other members of team: F. Jodrey, Mae Cockney

**Coastal Impacts of Climate Change**

The researchers revisited sites which were investigated in the past several years to look for changes which can be related to changing environmental parameters like, storms, floods, etc. They also observed the recovery of eroded areas which were effected by the fall, 1993 storm. Erosion was measured and bathymetric profiles completed. The depth of the active layer in the beach and near shore zones were probed using a jet drill.

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047 Physical Sciences

**Wescott, E.M.**

Geophysical Institute

University of Alaska

Fairbanks, Alaska, U.S.A. 99775-0800

Reference #: 12 404 494

Region: FS Location: Fort Smith

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

**Shaped charge injection of field-aligned barium and calcium plasma to investigate the physics of mass-dependent ion acceleration**

Beams of barium and calcium ions, from a rocket launched from Poker Flats, Alaska, was released into the aurora. These beams were observed using two low light level TV systems set up outside the Upper Air Station in Fort Smith. Each system was filtered for barium ion light and calcium ion light respectively. The data was recorded on video tape. The experiment took place near midnight on a clear night with aurora over northern Alaska.

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048 Physical Sciences

**Yamashita, Akira**

Asahigaoka 4-chome

Kasiwara

Osaka-fu 582, , Japan

Reference #: 12 404 518

Region: IN Location: Inuvik

Other members of team: T. Arakawa; Y. Yamashita

**Influence of the Arctic on Mid-latitude Weather and Climate: Observation of Precipitation Particles at Inuvik**

The researchers observed crystal formation from ice fog through the collection of samples for microscopic observation and through taking photographs/video of optical phenomena produced by floating ice crystals. Particle counting and cloud condensation nucleus counting at the observation site was also done.

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# Social Sciences

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049 Social Sciences

**Campbell, Tracy**

Committee on Resource and the Environment  
Arctic Institute of North America  
11th Floor, Library Tower, University of Calgary  
Calgary, Alberta T2N 1N4

Reference #: 12 410 498

Region: IN Location: Inuvik

Other members of team: self

**Aboriginal Co-Management of Non-Renewable Resources on Traditional or Treaty Territory: Conservation or Development**

The researcher conducted interviews with the working group who participated in the Community Conservation Plan (CCP) process in Inuvik. This data was compared with data gathered through interviews with those involved in the emerging co-management dialogue within Treaty 8 Territory in northern British Columbia. Direct examination of supporting documentation was also undertaken.

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050 Social Sciences

**Chisholm-Smith, Alexandra**

56 Cranbrook Ave  
Toronto, Ontario M5M 1M4

Reference #: 12 410 496

Region: FS Location: Yellowknife, Fort Smith

Other members of team: Self

**Healing as an Alternative to Incarceration**

The researcher, as part of a wider study on healing, used a particular research method to gain insight into the issue of incarcerated women in the NWT. Interviews took place with women presently incarcerated in the North as well as with those directly involved (healers, correctional officers, government and interest groups).

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051 Social Sciences

**Fajber, Elizabeth**

5290 de Lorimier  
Montreal, Quebec H2H 2C2

Reference #: 12 404 475

Region: IN Location: Fort Good Hope

Other members of team: self

**Dene Healing and Wellness**

The researcher investigated the issue using qualitative, community-based, collaborative research methods. Research tools included semi-structured and unstructured interviews with consenting informants. The researcher was also involved both in formal community meetings and political assemblies, and in informal daily activities of Dene in the community and of Dene lifeways.

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052 Social Sciences

**Ferguson, Margaret**

Terriplan Consultants

105, 4911 49th Street

Box 2335

Yellowknife, Northwest Territories X1A 2P7

Reference #: 12 410 502

Region: IN,FS Location: Aklavik and Hay River

Other members of team: Dr. M. Spigelman, one research assistant per community to be determined later

**Investing in People Program Evaluation - Year One**

The researchers undertook a detailed analysis of the operations of Investing in People Program. This included data collection (review of administrative files and interviews with program, project and community key informants). A detailed analysis of the short term impact of the program made extensive use of participant interviews.

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053 Social Science

**Gal, Ruthann**

South Slave Research Centre, Aurora Research Institute

Box 45

Fort Smith, Northwest Territories X0E 0P0

Reference #: 12 410 505

Region: FS Location: Fort Smith

Other members of team: Kim Kusak, Bryan O'Hagan, Sharone Maldaver, Edna Bjornson, Jane Dragon, Elizabeth Bourke, Leslie Paulette

**Fort Smith Health and Social Services Needs Assessment**

Proposed work included 1) update of community profile, 2) assessment of community needs by way of questionnaires, public meetings, workshops, personal interviews and unstructured written responses, 3) development of a version of community wellness based on community responses and current workable definitions, and 4) a final report which includes: i) prioritization of Health and SS issues confronting the community, and ii) a strategy to include program/service options.

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054 Social Sciences

**Gibson, Bob**

Faculty of Environmental Studies

Department of Environment and Resource Studies

University of Waterloo

Waterloo, Ontario N2L 3G1

Reference #: 12 404 522

Region: FS Location: Fort Providence

Other members of team: Stephen Kilburn

**Use of Geographic Information Systems in Aboriginal Communities**

The researchers reviewed internal documents concerning planning processes and decisions which were used to study how GIS is used in aboriginal lands and resource planning. Information was gathered and this process was reviewed to understand the nature of Traditional Knowledge for the community. People involved in planning and GIS activities were interviewed to investigate their understanding of how the systems fit into planning and how problems with them can be solved.

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055 Social Sciences

**Hagg, Richard**

Box 232

Lakefield, Ontario 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 interests and commercial interests. Present government policies for river management were researched. The researcher also surveyed information from the Nahanni National Park and conducted interviews with Canadian Parks Service Administration in order to assess the carrying capacity and management strategies for the rivers there.

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056 Social Sciences

**Isaak, Tony**

Box 6

Vonda, Saskatchewan S0K 4N0

Reference #: 12 410 501

Region: IN Location: Aklavik

Other members of team: self

**Native Land Claims and Cultural Geography: A case study of the impacts of the IFA on traditional activities for Aklavik Inuvialuit**

The researcher interviewed a random sample of Aklavik's Inuvialuit household heads, utilizing a questionnaire and an informal interview approach, in order to investigate the level of participation in traditional activities. The researcher also intended to accompany a hunter or trapper (or both) on a short trip(s) in order to gain first hand experience of such activities.

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057 Social Sciences

**Johnston, Brian**

12026 Lakeshore Dr.

RR#2

Morrisburg, Ontario K0C 1X0

Reference #: 12 410 504

Region: IN Location: Inuvik, Aklavik, Sachs Harbour

Other members of team: self

**Co-management and Aboriginal Participation in National Parks of the Inuvialuit Settlement Region.**

The researcher assessed the process by which the mandates of cooperative wildlife management in the national parks are archived in the Inuvialuit Settlement region. The researcher also examined the relationships and attitudes of the responsible organizations in order to reach a qualitative assessment of the operational side of wildlife management in the region.

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058 Social Sciences

**Krawll, Marcia**

Social and Management Development Services

2 - 2385 West 7th Avenue

Vancouver, British Columbia V6K 1Y4

Reference #: 12 410 490

Region: IN Location: Inuvik Region

Other members of team: R. Diabo, Community Staff

**Aboriginal Seniors Information Project**

The researcher, in collaboration with participating community staff from six Aboriginal communities/regions, gathered information through the use of an open-ended questionnaire, interview guides, and a program checklist. Interviews with Aboriginal seniors, their families, care-givers and community leaders, both individually and in focus groups, were conducted.

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059 Social Sciences

**Lamon, Martha**

Box 864

Yellowknife, Northwest Territories X1A 2N6

Reference #: 12 410 499

Region: FS Location: Yellowknife

Other members of team: self

**AIDS Yellowknife Needs Assessment**

The researcher used quantitative research methods, utilizing a questionnaire that has been adapted from the Ontario First Nations AIDS and Healthy Lifestyle Survey (1993) with their permission. Using "quota sampling", the researcher plans to sample survey 60 women, youths and inmates and as many drug users as possible that utilize Northern Addictions Services.

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060 Social Sciences

**Martel, Stephane**

Ecole des Hautes Etudes Commerciales

3439, Hotel-de-Ville

Montreal, Quebec H2X 3B5

Reference #: 12 410 491

Region: FS Location: Fort Smith, Fort Resolution

Other members of team: Self

**The Management of Bison in Northern Canada**

The researcher conducted 15 interviews in three communities around Wood Buffalo National Park as part of a study using a systematic methodology that includes reviewing official documents and media coverage as well as on site visits.

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061 Social Science

**Morrow, Jennifer**

45 Birch Ave.  
Ottawa, Ontario K1K 3G5

Reference #: 12 410 506

Region: FS Location: Yellowknife, Hay River

Other members of team: self

**Ideas of the Canadian North**

The researcher interviewed people to discuss their ideas of "North" and of the possibility and consequences of integrating indigenous and western knowledge systems. The researcher also conducted some archival research in the Yellowknife library.

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062 Social Sciences

**Notzke, Claudia**

410 - 21 Street S  
Faculty of Management  
The University of Lethbridge  
Lethbridge, Alberta T1J 3K2

Reference #: 12 410 398

Region: IN Location: Inuvik, Tuktoyaktuk

Other members of team: self

**Aboriginal Tourism: Canadian and International Perspectives**

The researcher administered a questionnaire to visitors in the Inuvik campground, in hotels and on tours; interviewed federal and territorial government officials, members of Joint Secretariat and Renewable Resources Committees; and individuals active in the industry. The researcher also sampled one or two day trips out of Inuvik (as a "participant observer"), and visited Tuktoyaktuk to look at tourism concerns and plans there.

---

063 Social Sciences

**Thompson, John**

3 - 690 Standard Life Centre  
10405 Jasper Avenue  
Edmonton, Alberta T5J 3N4

Reference #: 12 410 492

Region: FS Location: Fort Smith, Fort Resolution

Other members of team: Drobot Data Services (Calgary), Philippe Reicher (Calgary), Praxis (Calgary)

**NRBS Project #4121 - Survey of Northern Households, Interest Groups, Industries, and Local Government.**

The researchers first conducted a telephone survey with a random sample of northern residents. A further mail-in questionnaire was completed by those in agreement. A similar questionnaire was mailed to representatives of local government and interest groups that were identified in a screening study conducted in June, 1994.

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064 Social Sciences

**Wall, Denis**

11304 63 St.

Edmonton , Alberta T5W 4E8

Reference #: 12 410 503

Region: FS, IN Location: all of the NWT

Other members of team: self

**The NWT School Relationship Survey, 1995**

The survey collected data from students, administrators, teachers, Board Members, and other school-based staff.

Pilot surveys were undertaken to test the surveys and to identify necessary changes. A randomly selected group of 30 principals were asked to collect data on interpersonal conflict in which they have to intervene. No names were attached to surveys or descriptions of incidents. Final reports will deal with schooling throughout NWT.

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065 Social Sciences

**Zarowny, Sister Mary**

5117 - 52nd Street

Yellowknife, Northwest Territories X1A 1T7

Reference #: 12 410 493

Region: FS, IN Location: Various communities in western NWT

Other members of team: L. Jardine, volunteers in churches in local communities

**Family and Society - North**

Local church personnel or volunteers invited those who wish to participate in evening or weekend sessions to discuss their realities and answer a number of open ended questions. Local follow-up may result from these sessions. Summaries of sessions were forwarded to the coordinator and used for development of further reflection processes and pastoral strategies.

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# Traditional Knowledge

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066 Traditional Knowledge

**Christensen, Jill**

Regional Nutritionist

Mackenzie Regional Health Service

Box 520

Yellowknife, Northwest Territories X1A 2N4

Reference #: 12 408 097

Region: FS Location: N'Dilo, Dettah, 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 (e.g., fishing and hunting activities, health beliefs, traditional food use) of residents of N'Dilo and Dettah. This information was combined with the results from the Back Bay Fish Study (contaminants in fish) in order that human health implications of dietary patterns can be assessed.

---

067 Traditional Knowledge

**Hart, Elisa**

Prince of Wales Northern Heritage Centre

Department of Education, Culture and Employment

GNWT, Box 1320

Yellowknife, Northwest Territories X1A 2L9

Reference #: 12 410 363

Region: IN Location: Tuktoyaktuk area

Other members of team: N. Felix, E. Felix, A. Cockney, other elders to be contacted

## **Tuktoyaktuk Traditional Knowledge Project**

The researchers completed the last steps of a research project that began in 1991. This included reading over compiled information with elders to help verify locations of places that there is confusion over and record their coordinates with a GPS; and setting down at sites that elders suggest to talk a bit more about the history. Video tape recordings of discussions may occur.

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068 Traditional Knowledge

**Irlbacher, Stephanie**

201 5302 51 Street

Yellowknife, Northwest Territories X1A 1H3

Reference #: 12 410 495

Region: FS, IN Location: Yellowknife and Inuvik

Other members of team: Translators (Inuvialuit and Gwich'in) to be determined on site

**The use of Aboriginal Traditional Knowledge in public government programs and services in the Northwest Territories**

In gathering information, the researcher conducted interviews with Aboriginal and non-Aboriginal elected representatives, policy makers, and officials of the Department of Renewable Resources and Health and Social Services. As well the researcher conducted interviews with interested observers from Aboriginal Cultural institutes, Aboriginal organizations and community groups. Interviews were audio-taped.

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069 Traditional Knowledge

**Lescanec, Heidi**

3561 Woodward Ave

Windsor, Ontario N8W 5G5

Reference #: 12 410 459

Region: FS Location: Hay River Reserve

Other members of team: self and staff of Dene Cultural Institute

**Participatory Action Research**

During the second year of this internship, the researcher volunteered in various stages of ongoing research projects being supported by the Dene Cultural Institute.

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070 Traditional Knowledge

**MacDonald, Donald D.**

2376 Yellow Pt. Rd.

R.R. #3

Ladysmith, British Columbia V0R 2E0

Reference #: 12 410 494

Region: FS Location: Fort Liard to Fort Simpson

Other members of team: to be determined later - local interviewers

**Development of Ecosystem Maintenance Indicators (EMI's) for the Peel, Liard and Slave Rivers.**

The Traditional Environmental Knowledge component of the study involved a series of interviews with residents in the Liard River basin. These interviews were conducted by an interviewer who is competent in English and Slavey. The interviews were recorded on audio tape and transcribed later onto the questionnaire and maps. The communities were provided with copies of all raw and summarized information.

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071                      Traditional Knowledge

**Preston, Andrew**

2016 Hollybrook

Gloucester, Ontario K1J 7Y6

Reference #: 12 410 500

Region: IN              Location: Fort Good Hope

Other members of team: self

**Indigenous Environmental Knowledge in the Context of the Dene Socio-Cultural complex in Fort Good Hope, NWT**

The researcher utilized a participatory style of ethnographic research to expand on the research done in 1990 by the Dene Cultural Institute. Participant research observations and local opportunity to shape the direction of the research was encouraged. Semi-structured and unstructured interviews were conducted according to strict ethical guidelines negotiated through a contract process with the community council of Fort Good Hope.

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072                      Traditional Knowledge

**Raygorodetsky, Gleb**

Gwich'in Renewable Resource Board

Box 2240

Inuvik, Northwest Territories X0E 0T0

Reference #: 12 410 497

Region: IN              Location: Inuvik, Aklavik, Tsiigehtchic, Fort McPherson

Other members of team: Four community research assistants were hired.

**Gwich'in Environmental Knowledge Project (GEKP)**

Through a participatory action research process, the GEKP collected, organized and presented, in a report form, traditional environmental knowledge in the Gwich'in Settlement Area (GSA). This was the first of a two year joint project between the Gwich'in Renewable Resource Board and the Gwich'in Social and Cultural Institute, working with Gwich'in beneficiaries. Both groups were responsible for directing the project through a steering committee in each community.

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# Prince of Wales Northern Heritage Centre

## Archaeology Permits

073 Archaeology

**Andrews, Tom**

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

Reference No: 95-791

Region: FS, Location: Marian Lake Forestry Tower

Year of Research: 1995

### **Archaeological Assessment: Marian Lake Forestry Tower**

A one day inspection of the Dept. of Renewable Resources Forest Fire Tower site was conducted at Marian Lake about 30 km from Rae. The tower's location had recently come to attention because of an application by the Dept. of Renewable Resources, to request a permanent land reserve for the site. It was concluded that the tower site was far enough away from the sacred features and the lithic scatter that its continued operation would not interfere with either.

---

074 Archaeology

**Andrews, Tom**

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

Reference No: 95-799

Region: IN, Location: Arctic Red River

Year of Research: 1995

### **Tsiigehnjik Ethnoarchaeology Project: 1995 Survey**

As part of a continuing programme of research coordinated by the Gwich'in Social and Cultural Institute (GSCI), a two week survey was conducted on portions of the upper Arctic Red River. They visited sites identified by the elders, concentrating on the stretch of river between Bernard Creek and the Forks. Several important sites were recorded and two previously recorded sites were examined in greater detail. Following the survey, the crew participated in a field school at Martin House, on the Arctic Red River.

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075 Archaeology

**Bertulli, Margaret**

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

Reference No: 95-804

Region: IN, Location: Paulatuk

Year of Research: 1995

**Angik Archaeological Field School**

A recent sod house, believed to have been occupied in the 1930s was chosen for excavation as an archaeological field programme for the school children of Paulatuk. The recovered artifacts and photographs will be used in display for Angik School, the Community Education Council and the Community of Paulatuk.

---

076 Archaeology

**Damkjar, Eric**

ERD Heritage Consulting  
Edmonton, AB

Reference No: 95-800

Region: IN, Location: Tsiigehnjik

Year of Research: 1995

**Gwich'in Heritage Resource Management Training: Martin Zheh Field School 1995**

The Gwich'in Social and Cultural Institute conducted an ethnoarchaeological field school on Tsiigehnjik (Arctic Red River). Activities were centred on a traditional site known as Martin Zheh (Martin House), used traditionally by the Gwich'ya Gwich'in during seasonal travels between the Mackenzie River and the Mountains. The excavations, located a few metres from river, reached depths of one metre and revealed five cultural layers. These cultural layers illustrate many of the changes that have occurred in Gwich'in technology over the last two hundred years, but at the same time show continuity in the use of the land and its resources.

---

077 Archaeology

**Damkjar, Eric**

ERD Heritage Consulting  
Edmonton, AB

Reference No: 95-808

Region: IN, Location: Gwich'in Territorial Park, Inuvik

Year of Research: 1995

**Gwich'in Territorial Park Heritage Resources Impact Assessment**

Located approximately 15 km southeast of Inuvik, the park includes the land between the Dempster Highway and the east shore of the Cambell Lake as well as areas south of Cambell River between the highway and the east Channel of the Mackenzie River. The researcher conducted a survey of the main development area in the park, relocating two previously identified sites but finding little else of cultural significance.

---

078 Archaeology

**Fedirchuk, Gloria**

Fedirchuk McCullough and Associates Ltd.  
Calgary, AB

Reference No: 95-814

Region: FS, Location: Lac de Gras

Year of Research: 1995

**Southwest Diavik Property - Impact Assessment**

The researchers conducted a study of several locations on the east shore of Lac de Gras and on the adjacent complex of large islands. An esker and the shores of several lakes on the main land were inspected for archaeological and historic remains. Twenty sites dating to the pre-contact era were identified on the mainland. One additional site may be a burial site. Fourteen sites were identified on the two islands and adjacent mainland to the north. Further study of the historic features is warranted.

---

079 Archaeology

**Hanks, Christopher C.**

Hanks Heritage Consulting  
Cripple Creek, Colorado, USA

Reference No: 95-801

Region: FS, Location: Grizzly Bear Mountain and Scented Grass Hills, Great Bear Lake

Year of Research: 1995

**Historic Sites Survey of Grizzly Bear Mountain and Scented Grass Hills.**

The survey included mapping and recording 19 kilometres of the Grizzly Bear Mountain Portage from Keith Arm to McVicar Arm, Great Bear Lake. The second leg was a survey of the shoreline of Deer Pass Bay in the Scented Grass Hills.

---

080 Archaeology

**Le Mouel, Jean-Francois**

Musee de l'Homme  
Paris, France

Reference No: 95-806

Region: IN, Location: Halahervik, Victoria Island

Year of Research: 1995

**Taipkua Project**

The researchers returned to Halahervik, a contemporary outpost camp on the north shore of Prince Albert Sound. This vast caribou hunting and fishing site contains a variety of structures, among them clusters with numerous house ruins and tent rings. These were expected to contain key information about ancestral Inuit groups of the pre-contact and early contact periods. Four structures were completely excavated. Presentations of the field work and talks were given to the elders and to scholars in Holman; this was met with great interest.

---

081 Archaeology

**Saxberg, Nancy**

University of Calgary

Calgary, AB

Reference No: 95-805

Region: IN, Location: Mackenzie Delta

Year of Research: 1995

**Tukkuyuaq Archaeology Project**

The goal of the summer's survey was to locate sites for future investigation. Sites included Kittigazuit, Stanton, Nicholson Island and Sitidgi Creek 2 site. Sketch maps were made of the sites to locate historic structures.

Structures and artifacts were photographed. Surface collecting was done at Stanton and a few test pits were dug at Kittigazuit. This project was established to examine how non-native people adapted to living in the north around the turn of the century.

---

082 Archaeology

**Webster, Deborah Kigugalik**

Parks Canada, Department of Canadian Heritage

Yellowknife, NT

Reference No: 95-812

Region: IN, Location: Thomsen River, Banks Island

Year of Research: 1995

**1995 Thomsen River Survey**

The purpose of the survey was to complete the inventory of known and previously unrecorded archaeological sites along the Thomsen River and to evaluate site condition for management purposes. The field work resulted in the location of an additional 50 sites, bringing the total to 110. Most of the sites are recent, occupied by Copper Inuit and Mackenzie Inuit, but three Paleo-Inuit sites, dating to about 3000 years ago, were encountered. Twenty-nine surface artifacts were collected and are currently housed at Parks Canada until a museum facility is built in the Inuvialuit Settlement Region.

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# Department of Renewable Resources

## Wildlife Research Permits

083                      Wildlife  
**Alisauskas, Ray**  
Research Scientist  
Canadian Wildlife Service  
115 Perimeter Road  
Saskatoon, Saskatchewan S7N 0X4

Reference #: 1188  
Year of Research: 05/23/1995  
Region: IN              Location: Banks Island #1 Bird Sanctuary

### **Size and productivity of the Snow Goose population on Banks Island**

Habitat, Snow Geese

The distribution and abundance of nesting snow geese was determined and baseline information on nest success and brood survival were acquired. Impacts of grazing was determined and the impact that weather and predators are having on production was evaluated.

---

084                      Wildlife  
**Ash, Neville**  
University of Sheffield  
1 Denbank Drive  
Sheffield England S10 5P3

Reference #: 1191  
Year of Research: 08/01/1995  
Region: IN              Location: Franklin Mountains

### **Collection of dwarf willow**

Habitat, Dwarf Willow

Leaf stomatal densities with specimens from the fossil record were compared to quantify atmospheric CO<sub>2</sub> change.

---

085 Wildlife

**Bradley, Mark**

Regional Biologist

Renewable Resources

Box 390

Fort Smith, Northwest Territories X1A 2L9

Reference #: 818

Year of Research: 10/02/1995

Region: FS Location: Fort Resolution

**Fort Resolution moose study**

Large Mammals, Moose

An aerial census of moose was conducted to determine density, sex/age composition, and the rate of harvest (in cooperation with HTA).

---

086 Wildlife

**Bromley, Robert**

Waterfowl Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1141

Year of Research: 04/21/1995

Region: IN Location: Walker Bay

**Waterfowl of the central Arctic**

Waterfowl, Ducks, Geese, Swan

Productivity, production, affinities and survival rates of geese at Walker Bay were determined.

---

087 Wildlife

**Bromley, Robert**

Waterfowl Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1183

Year of Research: 08/01/1995

Region: FS Location: Loche River, Willow Lake

**Distribution, harvest location and survival of northern dabbling ducks**

Waterfowl, Ducks

The feasibility of duck banding in the Mackenzie Valley was assessed and a sample of ducks were banded.

---

088 Wildlife

**Bryant, Wayne**

Bryant Env. Consultants Ltd.

5016 48 St

Yellowknife, Northwest Territories X1A 2N9

Reference #: 816

Year of Research: 08/22/1995

Region: FS Location: Kennecott southwest Deavik Property Lac de Gras

**Phase II environmental baseline program**

Small Mammals, Shrew, vole, lemming

Small mammal populations were surveyed to assess species diversity as well as habitat associations and productivity.

---

089 Wildlife

**Case, Ray**

Wildlife Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1145

Year of Research: 05/15/1995

Region: FS Location: Slave Geological Province

**Population ecology of barren ground grizzly bears in the Slave Geological Province**

Large Mammals, Grizzly Bears

Population or management units of grizzly bears were identified based on movements, critical habitat was identified, geographical extent of impacts of mining were determined, and seasonal ranges, denning habitats and food habits were described.

---

090 Wildlife

**Cooch, Evan**

Professor

Dept. of Biological Sciences

Simon Fraser University

Burnaby, British Columbia V5A 1S6

Reference #: 1138

Year of Research: 04/13/1995

Region: IN Location: Siksik Lake, Banks Island

**Demography and management of the Banks Island metapopulation of Lesser Snow Geese**

Waterfowl, Snow Geese

The annual productivity, mortality rates, distribution and movement, and the importance of the Banks Island snow geese population as a reservoir for avian cholera in the Pacific and Central Flyway were determined.

---

091 Wildlife

**Croft, Bruno**

Waterfowl Technician

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1137

Year of Research: 04/03/1995

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

**Spring nutrient reserves of Canada Geese nesting in the central Canadian Arctic**

Waterfowl, Canada Geese

The importance of staging areas for Canada Geese was determined, the role of nutrient reserves in reproduction was assessed and the nutrient threshold influencing initiation of egg laying was determined.

---

092 Wildlife

**Downes, Connie**

Canadian Wildlife Service

100 Gamelin Blvd.

Hull, Quebec K1A 0H3

Reference #: 1190

Year of Research: 05/25/1995

Region: FS, IN Location: western Northwest Territories

**Breeding bird survey**

Birds, Small Birds

A record of birds along a route is taken annually to monitor yearly variations.

---

093 Wildlife

**Elkin, Brett**

Wildlife Disease Specialist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1129

Year of Research: 03/16/1995

Region: FS Location: Bathurst caribou range north of Yellowknife

**Monitoring of disease, parasites and contaminants in caribou**

Caribou

Caribou from the Bathurst Herd were monitored for disease, parasites and contaminants.

---

094 Wildlife

**Gates, Cormack**

Bison Biologist

Renewable Resources

Box 390

Fort Smith, Northwest Territories X0E 0P0

Reference #: 1130

Year of Research: 03/17/1995

Region: FS Location: Hanging Ice Bison Ranch

**Winter forage patch selection by bison**

Bison

Feeding patch selection by bison were determined and the applicability of a forage maturation model in predicting optimal biomass was tested.

---

095 Wildlife

**Gates, Cormack**

Bison Biologist

Renewable Resources

Box 390

Fort Smith, Northwest Territories X0E 0P0

Reference #: 1132

Year of Research: 03/17/1995

Region: FS Location: Falaise Lake area

**Wolf behaviour study**

Wolf

Wolves were collared to study predator-prey interactions, and wolf behaviour at den sites was documented.

---

096 Wildlife

**Gates, Cormack**

Bison Biologist

Renewable Resources

Box 390

Fort Smith, Northwest Territories X0E 0P0

Reference #: 1121

Year of Research: 01/31/1995

Region: FS Location: Slave River lowlands

**Composition and trend of the Slave River lowlands bison herd**

Bison, Wood Bison

Serial annual census of the wood bison herd continued and post calving composition was determined by aerial survey methods.

---

097 Wildlife

**Gullickson, Doug**

Park Warden

Nahanni National Park

Bag 300

Fort Simpson, Northwest Territories X1A 0N0

Reference #: 1116

Year of Research: 02/01/1995

Region: FS Location: Nahanni National Park

**Spatial/temporal study of the South Nahanni Woodland Caribou herd**

Caribou, Woodland Caribou

Seasonal habitat use, migration, and critical habitats of Woodland Caribou were documented through the acquisition of standard radio telemetry data.

---

098 Wildlife

**Gunn, Anne**

Caribou Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 802

Year of Research: 06/25/1995

Region: FS, KI Location: Lupin Mine

**Caribou behaviour at Lupin Mine**

Caribou

Caribou behaviour was described in relation to weather, insects and mine structures, and it was investigated whether traditional techniques to guide caribou will influence caribou avoidance of tailings ponds and airstrips.

---

099 Wildlife

**Gunn, Anne**

Caribou Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1189

Year of Research: 05/25/1995

Region: FS Location: central Northwest Territories

**Distribution of caribou calving, Bathurst Herd**

Caribou

The distribution of Bathurst calving caribou was mapped relative to snow melt using aerial surveys.

---

100 Wildlife

**Hines, Jim**

Waterfowl Biologist

Canadian Wildlife Service

Box 637

Yellowknife, Northwest Territories X1A 2N5

Reference #: 1184

Year of Research: 05/15/1995

Region: FS Location: Within 50 km of Yellowknife

**Factors influencing distribution and abundance of spruce grouse**

Birds, Spruce Grouse

Habitat use, density, age/sex composition, and demography of the spruce grouse population was determined near the northern limit of its range.

---

101 Wildlife

**Hines, Jim**

Waterfowl Biologist

Canadian Wildlife Service

Box 637

Yellowknife, Northwest Territories X1A 2N5

Reference #: 1185

Year of Research: 05/15/1995

Region: FS Location: along Yellowknife Highway

**Abundance and productivity of waterfowl breeding in the boreal forest**

Waterfowl, Ducks

Factors were determined that limit the size, composition, and productivity of the breeding populations of ducks in the Yellowknife Study Area.

---

102 Wildlife

**Hines, Jim**

Waterfowl Biologist

Canadian Wildlife Service

Box 637

Yellowknife, Northwest Territories X1A 2N5

Reference #: 805

Year of Research: 07/10/1995

Region: IN Location: Mac. Delta, Tuk Peninsula, Anderson, Kugulak, Smoke, Moose rivers

**Distribution and abundance and survival of Pacific Brant**

Waterfowl, Pacific Brant

Brant in the Inuvialuit Settlement Region mainland were surveyed and banded to determine annual survival rates, abundance and productivity.

---

103 Wildlife

**Hobson, Keith**

Research Scientist

Canadian Wildlife Service

115 Perimeter Road

Saskatoon, Saskatchewan S7N 0X4

Reference #: 1192

Year of Research: 06/01/1995

Region: FS, IN Location: Yellowknife, Fort Smith, Norman Wells, Fort Norman

**Stable isotope composition of the feathers of Red-winged Blackbirds**

Birds, Red-winged Blackbird

Territorial red-winged Blackbirds were collected to determine their stable isotope composition of their feathers against a latitude gradient.

---

104 Wildlife

**Jones, David**

Aurora College, Aurora Campus

Box 1008

Inuvik, Northwest Territories X0E 0T0

Reference #: 1136

Year of Research: 03/22/1995

Region: IN Location: Inuvik Region

**Collect small mammals for specimens**

Small Mammals, Mice, vole, lemming

Small mammals were collected for educational purposes.

---

105 Wildlife

**Kay, Dave**

Waterfowl Biologist

Ducks Unlimited Canada

Box 1438

Yellowknife, Northwest Territories X1A 2P1

Reference #: 1144

Year of Research: 05/01/1995

Region: IN Location: Brackett Lake

**Brackett Lake waterfowl study**

Waterfowl, Ducks

Distribution, abundance and productivity were determined for waterfowl by ground and aerial surveys of the site.

---



106 Wildlife

**Krebs, Charles**

Professor

University of British Columbia

Department of Zoology, UBC, 6270 University Blvd.

Vancouver, British Columbia V6T 1Z4

Reference #: 1150

Year of Research: 05/15/1995

Region: IN Location: Dew line sites across the Arctic

**Lemming population fluctuations in the eastern and western arctic**

Small Mammals, Lemming

Lemming populations and fluctuations were studied by trapping them across the arctic.

---

107 Wildlife

**Larter, Nicholas**

Muskox/Caribou Biologist

Renewable Resources

Bag Service 1

Inuvik, Northwest Territories X0E 0T0

Reference #: 1122

Year of Research: 02/16/1995

Region: IN Location: Banks Island

**Banks Island range study**

Large Mammals, Caribou, Muskox

Seasonal changes in diet, impact of grazing, changes in forage quality, available habitats, and body condition in areas of different density were determined.

---

108 Wildlife

**Larter, Nicholas**

Muskox/Caribou Biologist

Renewable Resources

Bag Service 1

Inuvik, Northwest Territories X0E 0T0

Reference #: 1123

Year of Research: 02/06/1995

Region: IN Location: Tuktoyaktuk area

**Sachs Harbour Bluenose Caribou community hunt**

Caribou

Extent of disease, winter diet, condition, and pregnancy status were determined, and samples from the Bluenose Caribou herd were collected.

---

109 Wildlife

**Latour, Paul**

Habitat Biologist

Canadian Wildlife Service

Box 637

Yellowknife, Northwest Territories X1A 2N5

Reference #: 1142

Year of Research: 04/21/1995

Region: FS Location: Mills Lake

**Assessment of Mills Lake as a staging area for ducks and geese**

Waterfowl, Ducks, Geese, Swans

The abundance and distribution of staging waterfowl at Mills Lake in spring and fall were determined and its importance through aerial surveys was evaluated.

---

110 Wildlife

**Nagy, John**

Supervisor, Wildlife Management

Renewable Resources

Bag Service 1

Inuvik, Northwest Territories X0E 0T0

Reference #: 1131

Year of Research: 03/15/1995

Region: IN, KI Location: Inuvik, Sahtu, Kitikmeot ranges

**Census of the Bluenose caribou herd**

Caribou

Census was taken of the Bluenose Caribou herd by aerial methods. 50 caribou were captured and equipped with radio collars.

---

111 Wildlife

**Poole, Kim**

Furbearer Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1117

Year of Research: 01/01/1995

Region: FS, IN Location: Mackenzie River Drainage

**Snowshoe hare population monitoring**

Furbearers, Snowshoe Hare

Hare population levels were monitored across the western Northwest Territories by doing pellet counts.

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112 Wildlife

**Poole, Kim**

Furbearer Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1118

Year of Research: 01/01/1995

Region: FS Location: Calais Lake area.

**Mackenzie Bison Sanctuary lynx study**

Furbearers, Lynx

The researcher live trapped and marked lynx to study their home range size, movement patterns and use of habitat.

---

113 Wildlife

**Poole, Kim**

Furbearer Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1119

Year of Research: 01/01/1995

Region: FS Location: Fort Simpson, Fort Providence, Fort Good Hope, Deline, Fort Smith

**Lynx and marten carcass collection**

Furbearers, Lynx and Marten

Age/sex, and reproductive condition were determined from lynx and marten carcasses, and pelt measurement criteria was determined for identifying kits in the harvest.

---

114 Wildlife

**Reed, Shawna**

RESCAN Environmental Services

1111 West Hastings Street 6 floor Coopers &amp; Lybrand Building

Vancouver, British Columbia V6E 2J3

Reference #: 1120

Year of Research: 01/16/1995

Region: FS Location: BHP Lac de Gras

**Environmental monitoring program**

Animals, all Animals

Ground and aerial based surveying for baseline monitoring of most wildlife species.

115 Wildlife

**Sirois, Jacques**

Technician

Canadian Wildlife Service

115 Perimeter Road

Saskatoon, Saskatchewan S7N 0X4

Reference #: 1178

Year of Research: 06/15/1995

Region: FS Location: Great Slave Lake

**Determination of trophic relationships in the community of colonial waterbirds**

Birds, Gulls, Terns

Stable isotopes were used to determine trophic segregation between 10 species of colonial waterbirds.

---

116 Wildlife

**Shank, Christopher**

Wildlife Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 808

Year of Research: 04/04/1995

Region: FS, IN Location: Mackenzie River valley

**Monitoring nesting success of Mackenzie valley Peregrine Falcons**

Raptors, Peregrine Falcons

The status of peregrine falcon nest sites were determined, young were banded and measured, and blood and feather samples were obtained.

---

117 Wildlife

**Shank, Christopher**

Wildlife Biologist

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1200

Year of Research: 07/01/1995

Region: FS, IN Location: Most Communities in the Northwest Territories

**Monitoring abundance of small mammals**

Small Mammals

The abundance of small mammals were monitored by snap traps.

---

118 Wildlife

**Solberg, John W.**

Biologist

US Fish and Wildlife Service

MBMO Box 1887

Klamath Falls, Oregon, U.S.A. 97601

Reference #: 1187

Year of Research: 08/01/1995

Region: FS Location: Mills Lake

**Western Canada Cooperative Waterfowl Banding Program**

Waterfowl, Ducks

Ducks were banded using swim-in bait traps to determine abundance, survival, etc.

119 Wildlife

**Veitch, Alasdair**

Regional Biologist

Renewable Resources

Box 130

Norman Wells, Northwest Territories X0E 0V0

Reference #: 819

Year of Research: 11/01/1995

Region: IN Location: Mackenzie River Valley

**Population size and composition of moose in the Norman Wells area**

Large Mammals, Moose

The size and composition of the Norman Wells area moose population was determined.

120 Wildlife

**Voelzer, James**

Flyway Biologist

US Fish &amp; Wildlife Service

911 NE 11 Ave 97232-4141

Portland, Oregon, U.S.A. 97232

Reference #: 1143

Year of Research: 05/01/1995

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 were determined in the Mackenzie River Drainage by aerial survey.

121 Wildlife

**Williams, Mark**

Caribou Technician

Renewable Resources

600-5102-50 Ave

Yellowknife, Northwest Territories X1A 3S8

Reference #: 1126

Year of Research: 02/24/1995

Region: FS, KI Location: Bathurst Caribou range

**Census of the Bathurst caribou herd**

Caribou

Census was made of the Bathurst caribou herd. Samples were collected opportunistically from hunter kills and dead caribou.

---

122 Wildlife

**Wilson, Deborah**

University of British Columbia

6270 University Drive Dept. of Zoology

Vancouver, British Columbia V6T 1Z4

Reference #: 1186

Year of Research: 05/19/1995

Region: IN Location: Walker Bay

**The effect of lemming density on nesting Canada and White-fronted Geese**

Small Mammals, Lemming, geese

Adult foxes were marked and observed.

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