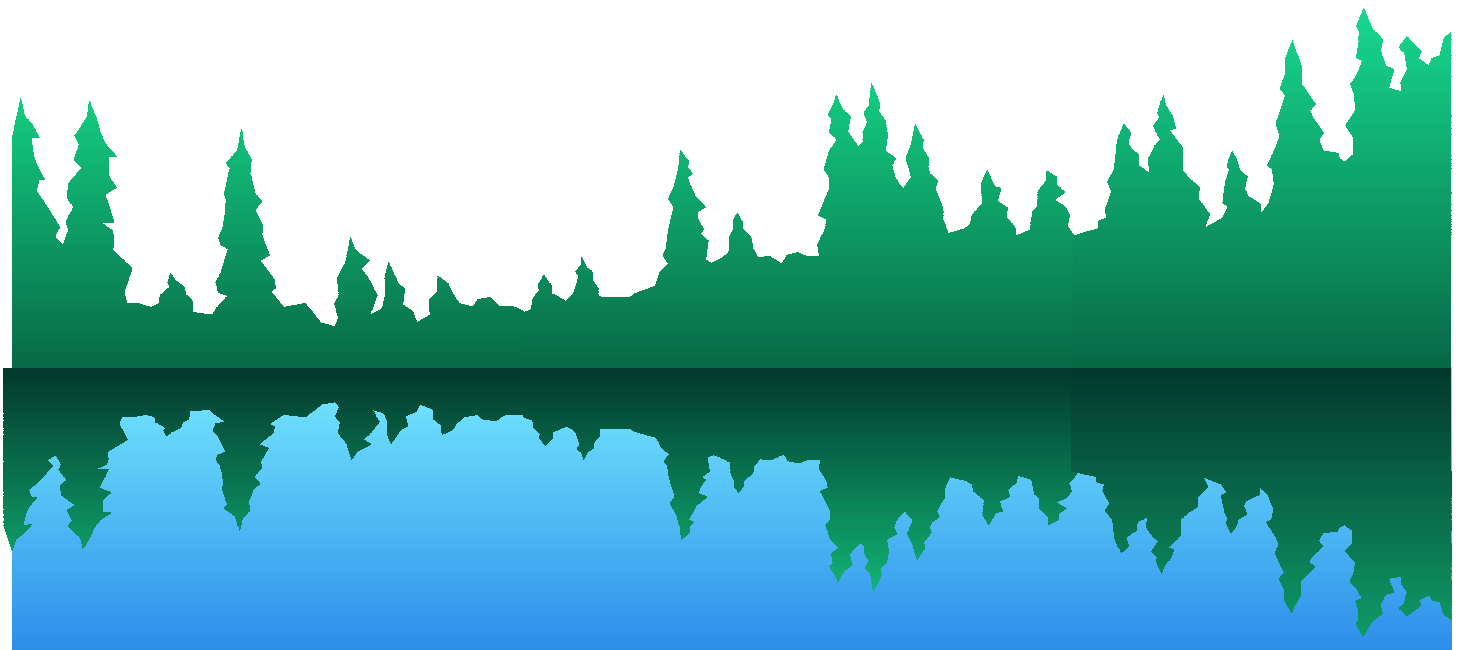

COMPENDIUM OF RESEARCH IN THE WESTERN NORTHWEST TERRITORIES 1995

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



**AURORA RESEARCH INSTITUTE
AURORA COLLEGE**



AURORA RESEARCH INSTITUTE

1995 COMPENDIUM OF RESEARCH IN THE WESTERN NORTHWEST TERRITORIES

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ABOUT THE AURORA RESEARCH INSTITUTE

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

FORWARD

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

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 licencing 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.

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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:

BA	Baffin	FS	Fort Smith
IN	Inuvik	KE	Keewatin
KI	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 CO₂ 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 CO₂ 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.

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.

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.

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

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.

Contaminants

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.

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.

Fossils

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).

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.

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.

Geology

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.

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.

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.

Health

032 Health

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.

Physical Sciences

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Social Sciences

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.

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).

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Traditional Knowledge

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.

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.

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.

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.

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.

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.

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.

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.

Department of Renewable Resources

Wildlife Research Permits

083 Wildlife
Alisaukas, 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

Waterfowl, 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 CO₂ 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.

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 & 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 & 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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