



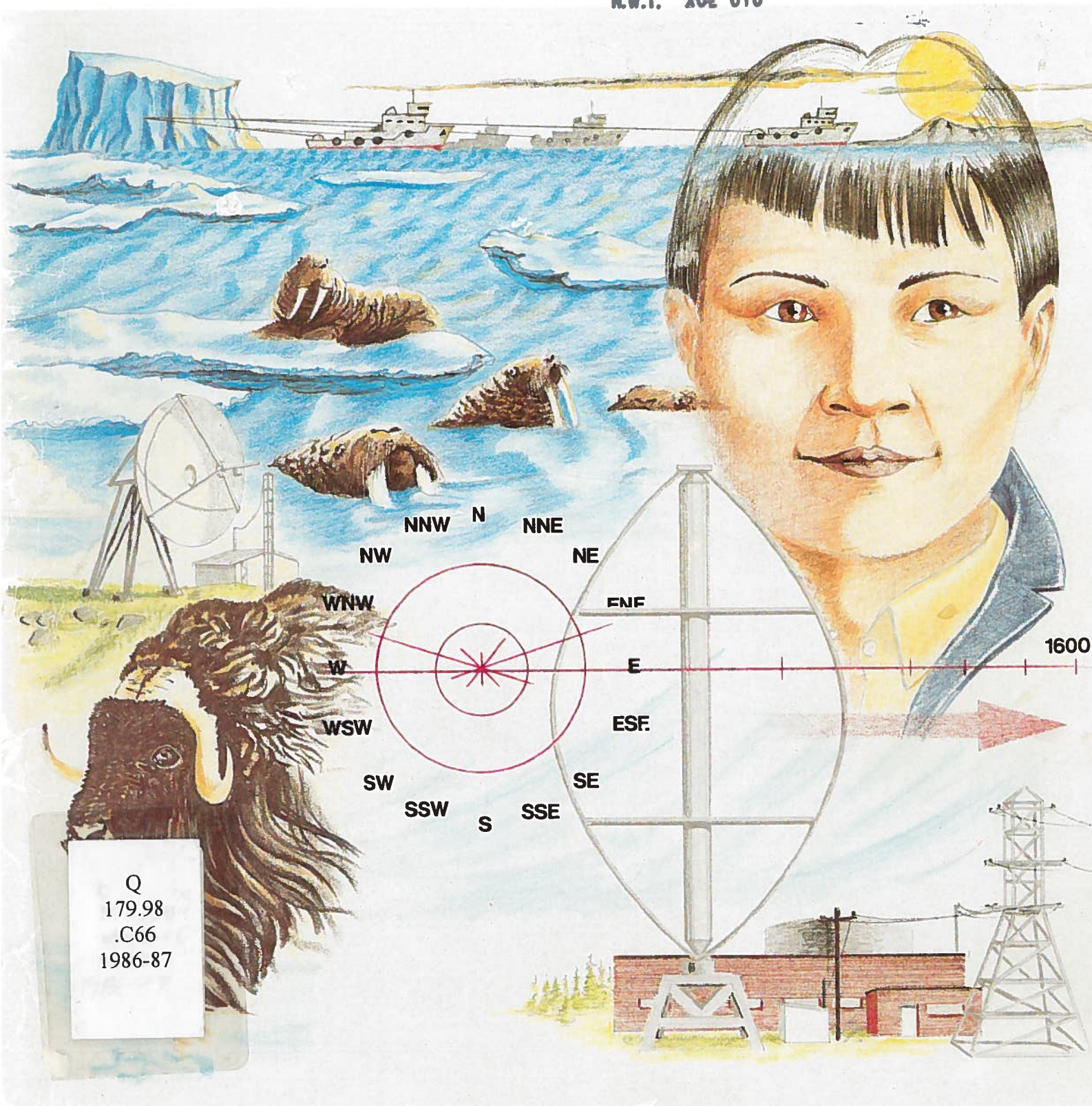
Science Institute of the Northwest Territories

FLICK/NOWAKOWSKI

Recent Research in the N.W.T. 1986-1987

INUVIK RESEARCH CENTRE
SCIENCE INSTITUTE OF THE N.W.T.
P.O. BOX 1430
INUVIK
N.W.T. X0E 0T0

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Contents

Introduction ... 1

Baffin Region ... 5

Fort Smith Region ... 29

Inuvik Region ... 39

Keewatin Region ... 54

Kitikmeot Region ... 60

Research Reports ... 66

Introduction

How and why do pingoes grow?

Did dinosaurs live on the Arctic Islands, thousands of years ago?

Is the Arctic affected by acid rain and other airborne pollutants?

How do whales react when icebreakers go through their feeding grounds?

How is the Inuktitut language growing and changing?

Are people who eat country food better nourished than those who buy groceries at the store?

Are the present standards of maternity care in the North acceptable?

These are just a few of the questions currently being investigated by researchers working in the Northwest Territories. In this booklet, you will become acquainted with almost 250 research projects that have been undertaken in the last two years, between January 1, 1986 and December 31, 1987. All of this work was licenced through the Science Institute of the N.W.T.

The studies listed here cover a wide range of disciplines, including physical, life, and human sciences. Much of the physical-science research being done in the North focuses on the history of the Earth and its landforms. Researchers wonder about the effects of the glaciers during past Ice Ages. They want to know if long-ago movements of the continents and subcontinents can be read in present-day rocks and surface features.

As we face the prospect of climate change brought about by air pollution, they are anxious to learn more about the causes and effects of climate change in the past. Other physical scientists are investigating northern phenomena such as pingoes, permafrost and naturally acidic lakes.

One of the most spectacular achievements in the physical sciences during the last several years has been the discovery and analysis of fossil forests on certain islands in the far North. Millions of years ago, researchers say, the Arctic was a tropical paradise, lush, green and warm. Even today, there are places where large fossil stumps protrude from the icy ground. Last year, another exciting element was added to the story when a dinosaur bone was found on Bylot Island, just north of Pond Inlet. It was the most northerly dinosaur bone ever found and permits us to imagine those enormous beasts lounging in swamps across the Arctic long ago.

Insects and antifreeze

In addition to the work that is done in the physical sciences, a great deal of research in the life sciences is also carried out each year. One common theme is an attempt to understand more about the ways in which Arctic organisms survive under harsh conditions. Recent discoveries include the fact that at least one species of Arctic insect makes its own antifreeze. And did you ever wonder what special mechanisms tundra plants have developed to deal with permafrost, the long winter darkness and severe cold? These are amongst the questions that biologists are investigating.

Additional information about wildlife research is available from the Department of Renewable Resources, Government of the N.W.T., Box 1320, Yellowknife, NWT, X1A 2L9.

Medical research is another important aspect of the life sciences, and one which appears to be underrepresented in the scientific work being done in the Territories. This also seems to be the case for the human sciences -- linguistics, anthropology, sociology, economics, political science, and so on -- disciplines which are potentially of great importance to the people of the NWT. In the past two years, less than 25 % of the projects licenced through the Science Institute were in the human sciences. The research that was carried out included investigations of caribou management boards, native broadcasting, parks planning, and native training programs.

Information about archaeological research is not included in this listing but is available from the Prince of Wales Northern Heritage Centre, Department of Culture and Communications, Government of the NWT, Box 1320, Yellowknife, NWT, X1A 2L9.

If you want to know more about any of the projects listed here, we encourage you to contact Laurie Nowakowski or Candace Savage at the Science Institute or, better yet, to write to the researcher whose work interests you. To give you an idea of the information that may be available, we have included a list of all the research reports received to date that relate to the projects mentioned in this booklet. Where possible, we will be happy to supply copies of this material on request but remind you that the researchers themselves are the best source of information.

If you are a scientist who is working in the NWT and whose research is not included here, please contact us. We would like to ensure that your work is acknowledged in future listings.

-- February, 1988

Baffin Region

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

Location: across the Northwest Territories

What factors contribute to the success of a training program for native northerners? What factors lead to failure? Frances Abele, as Director of the Native Employment Training Study, is trying to draw some conclusions.

1986, 1987

Adams, Peter
Dept. of Geography
Trent University
Box 4800
Peterborough, Ontario
K9J 7B8

Location: Axel Heiberg Island

Colour Lake, on Axel Heiberg Island, is naturally acidic and has been for thousands of years. Dr. Adams and his students took samples for study. They also continued their measurements of White Glacier, to study the effects of climate change.

1986

Aiken, Susan
Assistant Curator
Botany Division
National Museum of Canada
Ottawa, Ontario
K1A 0M8

Location: Iqaluit and Nettling Lake

A plant can develop differently depending on where it grows. Susan Aiken is interested in the way grass plants differ with their environment.

1987

Alexander, Vera
Institute of Marine Science
University of Alaska
Fairbanks, Alaska 99775

Location: Ellesmere Island

A polynya is an area where the sea stays open year round and which is consequently very rich in marine life. Vera Alexander is studying the distribution of microscopic plants and the characteristics of the water in a polynya at Knut Peninsula.

1987

Andrews, John T.
Institute of Arctic and Alpine
Research
University of Colorado
Box 450
Boulder, Colorado 80309

Location: outer coast of Frobisher Bay

Did you ever wonder about the climate on the outermost coast of Frobisher Bay for the last 10,000 or 20,000 years? John Andrews and his coworkers have. By examining fossils in a number of different ways, they hope to learn more.

1986

Appollonio, Spencer
31 Eastern Avenue
Boothbay Harbor, Maine 04538

Location: Ellesmere Island

Spencer Appollonio wants to find out about the relationships between two different types of microscopic plants (algae and phytoplankton) in Arctic waters. Do chemicals released by one help the other grow?

1987

Barreto, Luis
Department of Health
Government of the NWT
Box 1320
Yellowknife, NWT
X1Z 2L9

Location: across the NWT

This project is designed to find out more about cancer among Inuit people. How common is the disease? What kinds of cancers occur most often? What age groups are affected? Are the patterns the same in Canada as in other circumpolar regions? This questions will be answered by reviewing medical records and statistics.

1986, 1987

Basinger, James F.
Dept. of Geological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan
S7N 0W0

Location: Axel Heiberg and Ellesmere islands

James Basinger's investigation of the fossilized remains of ancient tropical forests on Axel Heiberg Island made headlines -- but it is just one aspect of a study of the history of plants at high latitudes.

1987

Bean, Philip
Dept. of Social Administration and
Social Work
University of Nottingham
University Park
Nottingham NG7 2RD England

Location: Iqaluit

What are the best ways to provide services for criminals and people with mental health problems in "remote areas"? Phillip Bean visited Iqaluit as part of his investigation.

1986

Beardsall, Ken
369 Hunter St. W., Apt. #8
Peterborough, Ontario
K9H 2M6

Location: Iqaluit and Coral Harbour

How do Inuit observe the atmosphere and predict weather? Ken Beardsall tried to answer this question by talking to people in Coral Harbour and Iqaluit.

1986

Beattie, Owen
 Dept. of Anthropology
 University of Alberta
 Edmonton, Alberta
 T6G 2H4

Location: Beechey Island

Owen Beattie used modern methods of analysis to determine the cause of death of three people buried on Beechey Island in the 1840s. His conclusions are the subject of a forthcoming book called "Frozen in Time."

1987

Beaudet, Hector
 Dept. of Geography
 University of Alberta
 Edmonton, Alberta
 T6G 2H4

Location: Ellesmere Island

Glaciers advanced and retreated over northern Ellesmere Island during the last Ice Age. What was the pattern and timing of these events? What was the island like during and after the glaciations?

1987

Bednarski, Jan
 Dept. of Geography
 Trent University
 Peterborough, Ontario
 K9J 7B8

Location: Ellesmere Island

What is the history of the land near Nansen Sound on northern Ellesmere Island, during the last few million years? This study hopes to find out by studying material on the surface of the ground, as well as by "mapping" layings underneath.

1987

Beyens, L.
 Dept of Botany
 State University of Antwerp
 (RUCA)
 Groenenborgerlaan 171
 B-2020 Antwerp, Belgium

Location: Devon Island

Dr. Beyens and his coworker want to know about microscopic animals (testate amoebae and diatoms) as they occur on Devon Island. Their study will look at the ecology, distribution and community structure of these creatures.

1986, 1987

Bliss, Lawrence C.
 Professor of Botany
 University of Washington
 Seattle, Washington
 98195

Location: Devon Island and King Christian Island

Lawrence Bliss is studying the plants of Truelove Lowl and on Devon Island and Cape Abernathy on King Christian Island. He is particularly interested in the relationship between plants and other living things.

1986, 1987

Boileau, Marc. G.
Dept. of Biology
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Inuvik, Tuktoyaktuk; Eskimo Pt., Igloolik, Rankin

Marc Boileau is interested in the ecology and population genetics of freshwater invertebrates in the Arctic. His research took him to Inuvik and Tuk in 1986 and to Eskimo Point, Igloolik and Rankin in 1987.

1986, 1987

Burden, Elliott
Centre for Earth Resources
Research
Memorial University of Nfld.
St. John's, Nfld.
A1B 3X5

Location: Iqaluit, Broughton Island, Clyde River, etc.

Elliott Burden attempted to determine the ages of various rock deposits on and around Baffin Island and to learn about ancient plants. In the process, he and Joshua Enookoolook of Pond Inlet found the toe bone of a dinosaur that lived on Bylot Island 70,000,000 years ago. It was the most northerly dinosaur bone ever found.

1986

Butler, Richard S.
Communications Research Centre
Dept. of Communications
3701 Carling Avenue
Box 11490, Station H
Ottawa, Ontario K2H 8S2

Location: Baffin region

The Department of Communications installed light metal towers at nineteen locations, to measure the levels of radio signals transmitted in the VHF and UHF bands.

1987

Butterfield, Nicholas J.
Botanical Museum
Harvard University
Cambridge, Mass 02138

Location: Nanisivik, Arctic Bay and Resolute Bay

There are rocks (sedimentary deposits) on Baffin and Somerset Island that are a billion years old, maybe even older. This study will learn more about them.

1987

Chapdelaine, Gilles
Environment Canada
1141, route de l'Eglise
Sainte-Foy, Quebec
G1V 4H5

Location: Akpatok Island

Gilles Chapdelaine is studying a Thick-billed Murre colony on Akpatok Island. He wants to learn as much as possible about their reproductive biology and habitat requirements.

1986

Colbourne, Eric
146 Regent Avenue
Beaconsfield, Quebec
H9W 5A7

Location: Iqaluit

Eric Colbourne conducted a study of the Baffin Divisional Board of Education.

1986

Conlon, Paula Thistle
1476 Farnsworth Avenue
Ottawa, Ontario
K1H 7C3

Location: Arctic Bay

Paula Conlon wants to learn about Inuit drum dance songs. She had planned to do so by recording drum dance songs and conducting interviews in Arctic Bay but bad weather prevented from making her trip. She is now basing her project on a collection of 200 songs that were recorded in Pond Inlet in the 1970s.

1986, 1987

Cosens, Susan E.
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Location: Admiralty Inlet, Lancaster Sound

How do narwhal and beluga in Lancaster Sound respond to icebreakers? Susan Cosens kept track of where the whales were and what they were doing before, during and after the icebreakers went through. She also played recorded vessels noises to the whales in order to study their reaction.

1987

Cummins, W. Raymond
Dept. of Botany
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location: communities in the Baffin and Keewatin

Raymond Cummins and his coworkers visited Eskimo Point, Rankin Inlet, Chesterfield Inlet, Repulse Bay, Pond Inlet and Resolute Bay to collect plants and seeds. They are especially interested in the respiration and growth rates of Arctic plants.

1986, 1987

Dale, Janis E.
Dept. of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Location: Pangnirtung

In 1986, Janis Dale and John Glew investigated the sediments on the bottom of Pangnirtung Fiord and the plants and animals that live there. The next year, Janis Dale returned to study breakup and freezeup over the tidal flats.

1987

Dawson, Mary R.
Carnegie Museum of Natural
History
4400 Forbes Avenue
Pittsburgh, Pa. 15213

Location: Ellesmere, Axel Heiberg and Devon islands

Fossil hunters! Mary Dawson and her colleagues are exploring various sites in the High Arctic, including fossil forests, in the hopes of finding fossilized remains of ancient animals. They hope to find animals older and younger than those previously found.

1986, 1987

Dewar, Patricia
719 5th Avenue North
Saskatoon, Saskatchewan
S7K 2R6

Location: Igloolik, Eskimo Point, Rankin Inlet

Patricia Dewar visited Inuit communities to learn how to do drum dancing and to talk to people about the experience of dancing. She hopes to help make a video that will show old and new ways of performing.

1986, 1987

Dixon, O.A.
Centre for Geoscience Studies
Dept. of Geology
Carleton University
Ottawa, Ontario
K1S 5B6

Location: Ellesmere Island and Devon Island

The 1986 project was designed to collect information about the geological history of the Somerset-Cornwallis-Devon Islands region. In 1987, Dr. Dixon and his coworkers visited Ellesmere and Devon Island. They are trying to discover the major forces at work on the Canadian Arctic Island half a billion years ago.

1986

Dredge, Lynda
Terrain Sciences Division
Geological Survey of Canada
601 Booth St.
Ottawa, Ontario
K1A 0E8

Location: Sarcpa Lake, Mackar, Brevoort Lake, Igloolik

How did the glaciers move over the areas around Sarcpa Lake, Mackar, Brevoort Lake and Igloolik? Lynda Dredge collected information to help answer this question.

1987

England, John
Dept. of Geography
University of Alberta
3-32 HM Tory Building
Edmonton, Alberta
T6G 2H4

Location: Ellesmere Island

How did the glaciers move over northern Ellesmere Island during the last Ice Age? Their story can be read from the rocks and land forms of the present day. This study will involve surveying and mapping, as well as the collection of fossils and petrified wood.

1986, 1987

Evans, David
Dept. of Geography
University of Alberta
3-32 HM Tory Building
Edmonton, Alberta
T6G 2H4

Location: Ellesmere Island

David Evans is studying the advance and retreat of the glaciers at Phillips Inlet, on northwest Ellesmere Island.

1986

Fiennes, Ranulph
P. U.N.S. Expedition
10 Belgrave Road
Barnes
London SW13 9N3
England

Location: Ward Hunt Island

As part of an Arctic expedition, Ranulph Fiennes and his party recorded ice stress on the ice shelf of Ward Hunt Island and collected meteorological data.

1987

Gruchy, C.G.
Assistant Director
Collections and Research
National Museum of Natural
Sciences
Ottawa, Ontario K1A 0M8

Location: Axel Heiberg and Ellesmere Islands

The researchers surveyed several known Arctic fossil forests and searched for new ones. They also checked a site that may contain ancient fossil fish.

1987

Guay, Helene
12 rue Masse
Lauzon, Levis
G6V 1V5

Location: Igloolik

When Inuit women take jobs, how does it affect their situation at home and in their communities? What can be learned from their life stories? Helene Guay went to Igloolik to investigate these questions.

1986

Guenette, Christine
333 James Street, Apt. #2
Ottawa, Ontario
K1R 5M8

Location: Iqaluit

What ways of settling disputes do Inuit people usually use? Are their ideas and methods reflected in the organization of Maliganik Tukisiiniakvik? Those were the questions that Christine Guenette intended to investigate.

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1987

Haertling, Joachim
Queen's University
Kingston, Ontario
K7L 3N6

Location: Iqaluit

Joachim Heartling wants to find out how toxic substances from an abandoned DEW-line dump site have moved through the soil and water. His data will be used to improve management of both abandoned and active dump sites.

1987

Harnum, Betty
Culture & Communications
Government of the NWT
Box 1320
Yellowknife, NWT
X1A 2L9

Location: Yellowknife, Rankin, Eskimo Pt, Iqaluit, Igloolik

Betty Harnum is studying the way Inuktitut is changing in the Eastern Arctic and Keewatin. She is looking into the development of new words, as well as changes in sounds and sentence structures.

1987

Hebert, Paul
Dept. of Biological Sciences
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Igloolik

Paul Hebert and his coworkers are studying the "family relationships" of various kinds of animals that live in tundra lakes. One thing that has caught their attention is the existence of clones (populations of genetically identical individuals) of small crustaceans.

1986, 1987

Hudson, W. Donald, Jr.
Assistant Director
Chewonki Foundation
Wiscasset, Maine 04578

Location: Iqaluit, Pangnirtung, Pond Inlet

There is a common kind of saxifrage plant that reproduces asexually. Donald Hudson wants to know how and why they do this.

1987

Hyatt, James A.
Dept. of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Location: Pangnirtung

This study will use a variety of methods to learn more about ground ice and permafrost.

1986, 1987

Jacobs, John D.
Dept. of Geography
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Nettling Lake and Amadjuak Lake

What was Baffin Island like, in terms of climate, vegetation and landforms, in the distant past? John Jacobs visited Iqaluit, Nettilling Lake and Amadjuak Lake to conduct surveys.

1986, 1987

Jeffries, Martin O.
Geophysical Institute
University of Alaska
Fairbanks, Alaska
99775-0800

Location: Hobson's Ice Island, near Ellesmere Island

An ice island really is a floating island of ice, formed by "calving" off an ice shelf. Martin Jeffries is studying the different types of ice involved to see if he can predict where new islands will form and what parts of the shelf will grow.

1987

Jung, Arthur
1648 West 49 Avenue
Vancouver, B.C.
V6M 2R9

Location: Ellesmere Island

Arthur Jung studied the geology of north-central Ellesmere Island.

1986

Kelly, Peter
Dept. of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Devon Island

"Raised beaches" are steps (terraces) of land that formed as the glaciers of the last Ice Age left the North. Peter Kelly studied several raised beaches to see what he could learn about the differences between them.

1986

King, Roger H.
Dept. of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Devon Island

The glaciers took several thousand years to retreat from Devon Island. At the same time, the coastal lowlands slowly emerged from the sea. How did the plant life change while this was happening?

1987

Kinloch, David
 Medical Services Branch
 Health and Welfare Canada, and
 Barreto, Luis
 GNWT Department of Health
 Yellowknife, NWT

Location: across the NWT

There is a new medicine, called the Connaught vaccine, that keeps babies from getting meningitis. It has been used in other places, but never before in the NWT. Will it be safe and effective here too? The answer is likely "yes" but this study was designed to make sure.

1987

Koebberling, Uschi
 Dept. of Communication
 Simon Fraser University
 Burnaby, B.C.
 V5A 1S6

Location: Igloolik, Iqaluit and Hall Beach

How has the introduction of new communication technologies affected people in the North? Has the process been different in the eastern and western Arctic? These are some of the questions Uschi Koebberling is trying to answer.

1986, 1987

Kukal, Olga
 Dept. of Biology
 University of Notre Dame
 Notre Dame, Indiana 46556

Location: Devon and Ellesmere islands

How is the "arctic woolly-bear caterpillar" able to survive in the high Arctic? Part of the answer, as it turns out, is anti-freeze! Olga Kukal is continuing her investigations.

1986

Lammel, Annamarie
 Dept. of Anthropology
 Carleton, University
 Ottawa, Ontario
 K1S 5B6

Location: Igloolik

What are the Inuit concepts of time and space? Annamarie Lammel visited Igloolik to begin her studies

1986

Lange, Lynda
 Boreal Institute for Northern
 Studies
 CW401 Bio Sciences Bldg.
 University of Alberta
 Edmonton, Alberta T6G 2E9

Location: across the N.W.T.

Dr. Lange contacted twenty northern native organizations to learn their views on scientific research. She concluded that native organizations want greater involvement in and control of research that affects them. "Joint ventures and cooperative, or partnership, research is strongly recommended...."

1987

Lavoie, Susan
Box 836
Yellowknife, NWT
X1A 2N6

Location: across the NWT

The NWT Child Care Association conducted a survey to assess child-care needs in all NWT communities. Their goal was to prepare a report and action plan for the development of child-care services in the NWT.

1987

Lehn, Waldemar H.
University of Manitoba
Dept. of Electrical Engineering
Winnipeg, Manitoba
R3T 2N2

Location: Resolute Bay

Mirages -- how do they happen? How do they occur during temperature inversions, when upper layers of air are colder than those near the ground? Can the behaviour of light provide a measure of temperature at long distances?

1986, 1987

Lemmen, Donald
Dept. of Geography
University of Alberta
3-32 HM Tory Building
Edmonton, Alberta
T6G 2H4

Location: Ellesmere Island

Donald Lemmen wants to know what northern Ellesmere Island was like during the last Ice Age. How far did the ice extend? Are there presentday landforms that existed before the glaciers came?

1987

Lewis, Martin and Kelly Robinson
Department of Biology
York University
4700 Keele St.
North York, Ontario
M3J 1P3

Location: Igloolik, Sarcpa Lake

What mineral nutrients does the Arctic willow take out of the soil as it grows? This project is part of an investigation of the growth habits of northern plants.

1986

Lewkowicz, A.G.
Dept. of Geography
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location: Ellesmere and Melville islands

This researcher is interested in the melting of permanent snowbanks and the formation of ground ice slumps.

1986

Lindberg, D. R.
2231 est, rue St. Zotique
Montreal, Quebec
H2G 1J7

Location: Iqaluit

Do teachers use simpler English when they speak to Inuktitut-speaking students? Do they speak more or less to these students than they do to others? If differences exist, do they affect the rate at which Inuktitut-speaking students learn English? These are some of the questions being investigated.

1987

Lindfield, Gary
Senior Planner
National Parks Systems Branch
Environment Canada
2nd Floor, 10 Wellington St.
Hull, Quebec K1A 1G2

Location: North Baffin/Lancaster Sound

Accompanied by Eli Panipakoocho and Cornelius Nutaraq of Pond Inlet, a team of people traveled along the fiord coastlines south of Eclipse Sound, which has been proposed as the site of a National Park. Their task was to examine potential tourist "staging points" and develop a storyline for an interpretive program.

1987

Luttermann, Annette
5373 Waverly
Montreal, Quebec
H2T 2X8

Location: Clyde River

Annette Luttermann wants to know how people in Clyde River feel about medivac service. How do they deal with separation from sick relatives? Are there problems in the South with communication and adaptation? Are there difficulties when patients return home? The information could help hospital workers provide better service for Inuit.

1986, 1987

MacLean, Brian
Atlantic Geoscience Centre
Geological Survey of Canada
Bedford Institute of Oceanography
Box 1006
Dartmouth, N.S. B2Y 4A2

Location: south Loughheed Island; Byam Martin Channel

What can be learned by studying the sea bottom under the permanent sea ice in the Arctic Island channels? Brian MacLean and his coworkers will take advantage of open-water leads in this investigation.

1987

Mallamo, Mark
Dept. of Geology
University of Western Ontario
London, Ontario

Location: Griffith Island and Cornwallis Island

By mapping and collecting different types of rocks and fossils, Mark Mallamo hopes to learn what Cornwallis and Griffiths islands were like 450 million years ago.

1987

Martini, I.P.
University of Guelph
Dept. of Land Resource Science
Guelph, Ontario
N1G 2W1

Location: Igloolik

This is a geological project that will look at the form and composition of sandy and muddy coasts.

1987

McAlpine, Ann
Pond Inlet, NWT
X0A 0S0

Location: Pond Inlet

Ann McAlpine wants to know if Inuit students believe they have the power to make decisions for themselves or if they feel that forces outside them control their lives.

1986, 1987

McDowell, Marilyn E.
Mt. St. Vincent University
Home Economics Dept.
166 Bedford Highway
Halifax, N.S.
B3M 2J6

Location: Igloolik

Seal and walrus salami? Why not? This project is intended to find ways to produce these products for sale as a home-based industry.

1986

McKenna-Neuman, Cheryl
Dept. of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Location: Pangnirtung

Cheryl Neuman is investigating the effect of winds on the landscape around Pangnirtung.

1987

McMahon, Kevin
1007 25 Mutual St.
Toronto, Ontario
M5B 2A7

Location: Iqaluit, Resolute, Cambridge, Inuvik, Yk

What do northerners, particularly community elders, think about Canadian Arctic sovereignty? Kevin McMahon conducted interviews with interested people in several communities.

1986

Miller, Gifford H.
Institute of Arctic and Alpine
Research
University of Colorado
Boulder, Colorado
80309-450

Location: Iqaluit area

Another study of the last Ice Age: where were the glaciers?
how did they move? how did the sea level change?

1987

Mode, William N.
Dept. of Geology
University of Wisconsin Oshkosh
Oshkosh, Wisconsin 54901

Location: southern Baffin Island

William Mode and his coworkers are studying the history of
the landforms and vegetation around Madjuak Lake and on
southeastern Meta Incognita Peninsula.

1986

Montgomerie, Robert D.
Dept. of Biology
Queen's University
Kingston, Ontario
K7L 3N6

Location: Hall Beach and Sarcpa Lake

People have often claimed that certain Arctic plants turn
their flowers to follow the sun. Robert Montgomerie and his
coworker have shown that this is not true for the two species
they studied.

1986

Morris, T. F.
Dept. of Geography
3-32 HM Tory Building
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Prince of Wales Island

Tom Morris is attempting to uncover the glacial history of
southern Prince of Wales Island over the last 120,000 years
-- and to answer some interesting questions in the process.

1987

Murat, Jean-Robert
Ecole Polytechnique
University of Montreal Campus
Box 6079, Station "A"
Montreal, Quebec H3C 3A7

Location: Igloolik

How much weight can floating sea-ice sheets bear?
Jean-Robert Murat and his coworkers intend to find out.

1986

Nilsen, Per
240 Wellington St.
Gravenhurst, Ontario
P0C 1G0

Location: Pangnirtung, Iqaluit, Pond Inlet

This is a study of a Visitor Activity Management Process that has been adopted by Parks Canada, to find out how well it will work in northern parks.

1987

Pearce, Cheryl M.
Dept. of Geography
University of Western Ontario
London, Ontario
N6A 5C2

Location: Devon Island

Exactly which plants lived in association with one another on beaches that emerged as the glaciers retreated? Dr. Pearce and Carrie Knill investigated this question.

1987

Pearce, Cheryl M.
Dept. of Geography
University of Western Ontario
London, Ontario
N6A 5C2

Location: Devon Island

Scientists learn about ancient plants by studying fossilized pollen. But do they come to the correct conclusions in this way? Dr. Pearce and William Quinton tested the method by comparing present-day pollen deposits with the distribution of present-day plants.

1986, 1987

Phillips, Stephen M.
Dept. of Earth and Planetary
Sciences
Johns Hopkins University
Baltimore, MD 21218

Location: Ellesmere Island

Stephen Phillips is studying the history of the Earth's crust -- how it came to take its present form -- in the eastern Arctic.

1987

Prowse, Terry D.
Northern Hydrology Section
National Hydrology Research
Institute
11 Innovation Boulevard
Saskatoon, Sask. S7N 3H5

Location: Resolute Bay, Ft. Simpson and Mackenzie Delta

This project included investigations of the river ice jams and breakup in the Fort Simpson region; the breakup in the Mackenzie River and Delta; water balance in Mackenzie Delta lakes; and snow-soil interactions near Resolute Bay.

1986, 1987

Rasing, Wim C.E.
Sneewubalstraat 41
6543 TN Nijmegen
The Netherlands

Location: Igloolik

In Igloolik, there are two legal systems in use today -- traditional Inuit law and the Canadian court system. Wim Rasing has spent many months in the community to learn about this.

1986

Retelle, Michael J.
Dept. of Geology and Geography
University of Massachusetts
at Amherst
Morrill Science Center
Amherst, MA 01003

Location: Ellesmere Island

By collecting core samples from the bottoms of lakes on Marvin Peninsula (Ellesmere Island), the researcher hopes to learn about the rate at which sedimentation occurs in the high Arctic.

1987

Roadhouse-Bresnahan, Barbara
and Sandy Stewart
Box 1089
Richmond Ontario
K0A 2Z0

Location: Iqaluit, Yellowknife, Inuvik

Why do so many northern women become politically active? The researchers interviewed women in three northern communities in their search for answers.

1986

Robertson, Kelly
Faculty of Science
York University
4700 Keele St.
North York, Ontario
M3J 1P3

Location: Igloolik

When deciduous plants drop their leaves, they lose nutrients. Arctic plants, which grow on infertile soils, may not be able to afford this loss. What special ways do plants have to cope with Arctic conditions?

1987

Robinson, Patricia
School of Environmental Health
Ryerson Polytechnical Institute
350 Victoria St.
Toronto, Ontario
M5B 2K3

Location: Iqaluit

How safe is country food? Does it contain bacteria that could make people sick? Meat obtained by hunting and fishing was tested for two kinds of bacteria that cause food-poisoning, Campylobacter and Salmonella.

1986

Russell, Dale A.
Paleobiology Division
National Museum of Natural
Sciences
Ottawa, Ontario
K1A 0M8

Location: Axel Heiberg Island

Dale Russell went to Axel Heiberg Island to search for dinosaur remains, either bones or trackways. He came away empty-handed, but another researcher, Elliott Burden, found a fossil bone on Bylot Island in 1987.

1986, 1987

Saladin d'Anglure, Bernard
Dept. of Anthropology
University of Laval
Quebec, P.Q.
G1K 7P7

Location: Igloolik

Bernard Saladin d'Anglure is undertaking a long-term study of Inuit social history and culture. Among his special interests are adoption, identity and kinship among the Igloolik Inuit.

1986

Schwerdtner, W. M.
Dept. of Geology
University of Toronto
Toronto, Ontario
M5S 1A1

Location: Ellesmere and Axel Heiberg Islands

This project involved detailed geological mapping of the Hare Fiord region on Ellesmere Island and the Gibs region on Axel Heiberg Island.

1987

Sheath, Robert
Dept. of Botany
University of Rhode Island
Kingston, RI 02881 0812

Location: Iqaluit, Pangnirtung, Lake Harbour

Robert Sheath is studying the red freshwater algae (seaweed) of North America, including the kinds that live in the North.

1987

Short, Susan K.
Institute of Arctic and Alpine
Research
University of Colorado
Box 450
Boulder, Colorado 80309

Location: Arctic Bay/Nanisivik area

Northwest Baffin Island, near Arctic Bay, is the first place in the eastern Arctic where rocks aged 10,000 to 40,000 years old have been found. This project was designed to obtain more information about the site.

1987

Somr, Christopher
 Dept. of Geography
 University of Western Ontario
 London, Ontario
 N6A 5C2

Location: Devon Island

Using the lake ice as a platform, Christopher Somr will take deep samples from lake bottoms on Devon Island. These will be compared with samples from the land. Together the information may contribute to our understanding of the far-distant past.

1987

Stavinga, Janet M.
 Dept. of Geography
 McGill University
 805 Sherbrooke St. W.
 Montreal, Quebec
 H3A 2K6

Location: Igloolik

Are industrial pollutants, the kinds that cause acid rain, finding their way into Arctic tundra pools? Janet Stavinga studied water quality in ponds near Igloolik to find out.

1986

Steger, Will
 Steger International Polar
 Expedition
 1708 Savoy
 Ely, Minnesota 55721

Location: Mackenzie Valley and Ellesmere Island to the Pole

Can the North Pole be reached solely by the power of men and sled dogs? Ask Will Steger.

1986

Steltner, Hermann A.R.
 Director
 Arctic Research Establishment
 Pond Inlet, NWT
 X0A 0S0

Location: Pond Inlet and other Baffin communities

The researcher wanted to collect data on the environment and climatology at various locations in the Baffin region.

1986

Stenton, Douglas R.
 Dept. of Anthropology
 University of Alberta
 Edmonton, Alberta
 T6G 2H4

Location: Iqaluit, Cape Dorset and Pangnirtung

Where and how did the Inuit live in south-central Baffin Island, in traditional times? Where did they spend the summers, the winters? Douglas Stenton addressed these questions by combining oral history and archaeology.

1987

Swiderski, Andy
Box 1049
Iqaluit, NWT
X0A 0H0

Location: Cape Dorset, Iqaluit, Pangnirtung

How will communities participate in economic development under a Nunavut government? Andy Swiderski is preparing a profile of the present economy in the communities and then talking to people about how they hope and expect development will proceed.

1986

Taylor, R.B.
Environmental Marine Geology
Atlantic Geoscience Centre
Geological Survey of Canada
Box 1006
Dartmouth, N.S. B2Y 4A2

Location: Byam Martin channel; Loughheed & Cameron Is.

These researchers are studying various kinds of coastline on the Arctic islands.

1986

Thomas, Vernon G.
Associate Professor
Dept. of Zoology
College of Biological Science
University of Guelph
Guelph, Ontario N1G 2W1

Location: Eclipse Sound, near south Bylot Island

How quickly does plankton (tiny plants) grow in Arctic waters? Vernon Thomas took samples near Bylot Island to find out.

1987

Treude, Erhard
Geographisches Institut
Universitat Bamberg
D-8600 Bamberg
Am Kranen 12 Postfach 1549
Federal Republic of Germany

Location: Pangnirtung

How much of the cash income of the community of Pangnirtung comes from wage employment? Erhard Treude visited the settlement to collect information.

1987

Valle, Madelyn Della
3514 Hutchison #1
Montreal, P.Q.
H2X 2H2

Location: Iqaluit

How is the Eastern Arctic Teacher Education Program structured? What approach does it take to curriculum development, language training and pedagogy? How does it compare to the Kativik Teacher Training Program in northern Quebec? These are the questions that interested Madelyn Valle.

1986

Stephenson, Fred. E.
Regional Tidal Officer
Institute of Ocean Sciences
9860 West Saanich Road
Box 6000
Sidney, B.C. V8L 4B2

Location: Arctic islands, in the vicinity of Resolute Bay

This is a study of ocean tides in the Arctic Islands

1987

Stevenson, Marc G.
#3 5605 50 Ave.
Yellowknife, NWT

Location: Pangnirtung

How did the Inuit of Cumberland Sound live during the whaling era? This is the question that Marc Stevenson, together a team of six Inuit researchers, hopes to answer.

1986, 1987

Stirling, Ian
Canadian Wildlife Service
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Location: around Resolute Bay and the Beaufort Sea

Ian Stirling and his colleagues studied polar bears and other marine animals in the Arctic islands. As part of the project, bears were shot with tranquilizers and marked with dye so they could be followed. The researchers also collected the reproductive organs of polar bears and seals killed by hunters.

1986

Stravers, Jay A.
Atlantic Geoscience Centre
Geological Survey of Canada
Bedford Institute of Oceanography
Box 1006
Dartmouth, N.S. B2Y 4A2

Location: northern Baffin Island

This is a study of the effects of glaciers on the landforms of northern Baffin Island.

1986, 1987

Svoboda, Josef
Professor of Botany
University of Toronto
Erindale Campus
Mississauga, Ontario
L5L 1C6

Location: Ellesmere Island

A long-time Arctic researcher, Josef Svoboda is investigating the vegetation of Sverdrup Pass on Ellesmere Island, including the growth and diversity of lichens and the impact of muskoxen on the plants.

1986

Vermette, Stephen
Dept. of Geography
McMaster University
Hamilton, Ontario
L8S 4K1

Location: Iqaluit, Igloolik and Resolute Bay

Stephen Vermette set up a collectors at a few locations to sample precipitation, so that it could be checked for pollution.

1986

Walters, James
Institute of Arctic and Alpine
Research
University of Colorado
Campus Box 450
Boulder, Colorado 80309-0450

Location: Iqaluit and Countess of Warwick Sound

There are several different theories about the way ice flowed over the Hall Peninsula during the last Ice Age. James Walters went looking for information to resolve this dispute and to clarify other matters.

1986

Washburn, A. L.
Quaternary Research Centre
University of Washington
Seattle, Washington 98195

Location: Cornwallis Island

This is a study of glaciation and geology on Cornwallis Island. Dr. Wahsburn's 1987 research focussed on the effects of frost and permafrost on the landscape. He also investigated areas of Cornwallis Island that were pushed underwater by glacial ice and have now rebounded to the surface.

1987

Weber, Richard
Conexus Research
Ste 300, 55 Murray St.
Ottawa, Ontario
K1N 5M3

Location: Iqaluit

Together with researchers from the Soviet Academy of Sciences and the Geological Survey of Canada, Richard Weber tested equipment to be used in an expedition planned for March-June 1988. The ultimate objective is to gather information about the magnetic field across the Arctic Ocean where there is presently little data.

1986

Weider, Lawrence J.
Dept. of Biology
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Igloolik area

Water fleas may not sound like a very promising subject for research, but Lawrence Weider is interested in them because they are an important link in the food chain, and because they reproduce asexually and live in populations that are genetically identical (clones).

1986, 1987

Welch, Harold
Research Scientist
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Location: Resolute Bay and area

Harold Welch is studying the "food-chain" in Arctic waters. Sea weed and tiny animals and plants are the basic foods for sea animals. How fast do these sea-foods grow? He wants to know more about their productivity.

1986, 1987

Wolfe, Allan
Physics Dept. N812
New York City Technical College
300 Jay St.
Brooklyn, N.Y. 11201

Location: Iqaluit

Heady stuff! Hydromagnetic power; magnetospheric cusps; plasma waves produced in the solar wind; the pairing of Iqaluit and the South Pole -- it's all part of a study of the Earth's magnetic sphere.

1986

Young, Robert Bonner
Dept. of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Devon Island

By examining fossilized plant pollen and other material from the bottom of a number of lakes, Robert Young hopes to get an idea of what the land and plants of Devon Island were like in the far distant past.

1986

Yurick, Doug B.
Senior Planner, Marine Studies
National Park Systems Division
Parks Canada
Ottawa, Ontario
K1A 1G2

Location: Eclipse Sound and Lancaster Sound

The researchers visited certain areas around Lancaster Sound and north Baffin to make decisions about sites that should be included in a proposed National Park.

1986, 1987

Zinsmeister, William J.
Dept. of Geosciences
Purdue University
West Lafayette, Indiana
47907

Location: Ellesmere Island

What kinds of shellfish and other invertebrates lived around Ellesmere and Banks Island at various times in the past? This information obtained will be compared with what is known about the history of other northern seas.

Fort Smith Region

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

Location: western Northwest Territories

Was Transport Canada's Native Flight Service Station Operators Training Program a success? What were the reasons for its success -- or failure?

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

Location: across the Northwest Territories

What factors contribute to the success of a training program for native northerners? What factors lead to failure? Frances Abele, as Director of the Native Employment Training Study, is trying to draw some conclusions.

1986

Annas, Richard M.
Wetland Ecologist
Wildlife Management Division
Dept. of Renewable Resources
Government of the NWT
Yellowknife, NWT X1A 2L9

Location: Fort Smith and Fort Resolution areas

In order to make decisions about the use of marshes and other wetlands in the N.W.T., we need to know about the different kinds of wetland habitats and where they are. This project tested a mapping procedure for gathering this information.

1987

Barreto, Luis
Department of Health
Government of the NWT
Box 1320
Yellowknife, NWT
X1Z 2L9

Location: across the NWT

This project is designed to find out more about cancer among Inuit people. How common is the disease? What kinds of cancers occur most often? What age groups are affected? Are the patterns the same in Canada as in other circumpolar regions? This questions will be answered by reviewing medical records and statistics.

1986

Chatterton, Brian D.E.
Dept. of Geology
University of Alberta
158 Earth Sciences Building
Edmonton, Alberta
T6G 2E3

Location: Tungsten

This project was a study of the geology of the Mackenzie Mountains, by making measurements and collecting samples.

1987

Crnkovich, Mary
Canadian Arctic Resources
Committee
Rm 11, 46 Elgin St.
Ottawa, Ontario
K1P 5K6

Location: Yellowknife

The Canadian Arctic Resources Committee is preparing a book about issues affecting women in the North and about the North itself, from a woman's perspective. Mary Crnkovich visited Yellowknife to gather information and meet potential contributors.

1987

Davis, Stuart
North/South Consulting Inc.
Aquatic Environmental Specialists
661 Pembina Highway
Winnipeg, Manitoba
R3M 2L5

Location: Yellowknife

Will Arctic Char grow in Jack Fish Lake, just outside Yellowknife? Could a fish-farm and hatchery be established there? Stuart David looked into these questions in the winter of 1987.

1986

Enarson, Donald A.
Doctors' Residence
Vancouver General Hospital
2775 Heather St.
Vancouver, B.C.
V5Z 3J5

Location: Tungsten Mine

Miners were screened for lung cancer, in the expectation that the disease could be treated more effectively if it were found early.

1987

Gibson, Robert B. and
Robert F. Keith
Dept. of Environment and
Resource Studies
University of Waterloo
Waterloo, Ontario N2L 3G1

Location: Yellowknife

With the cooperation of the agencies involved in the environmental review and assessment process, this study is attempting to find practical means of improving the effectiveness, efficiency and fairness of planning and project assessment in the Yukon and NWT.

1986

Gruezo, William
Dept. of Botany
University of Alberta
B414 Biological Sciences Centre
Edmonton, Alberta
T6G 2E9

Location: Yellowknife and Fort Smith areas

The various species of plants that we see around us have all come into being through evolution. William Gruezo wants to learn more about why certain species developed as they did.

1986

Hadley, Mark G.
Dept. of Geology
University of Alberta
Edmonton, Alberta
T6G 2E3

Location: Hay River and Pine Point

Mark Hadley studied the geology of the Hay River Formation, which crops out along the Hay River upstream from the town.

1987

Keillor, Elaine
Dept. of Music
Carleton University
Ottawa, Ontario
K1S 5B6

Location: the Dogrib communities

Elaine Keillor is an expert on traditional Dogrib music. This was her second trip to Dogrib communities to tape songs. She is particularly interested in story songs, dances, gambling songs and the music of children and women. She visited Fort Good Hope, Detah, Lac la Martre, Rae/Edzo and Rae Lakes.

1986, 1987

Kershaw, G. P.
Dept. of Geography
University of Alberta
3-32 HM Tory Building
Edmonton, Alberta
T6G 2H4

Location: Fort Norman area

Clearings are often made through the forest to permit travel. What is the most effective way of restoring these areas to their original state? Professor Kershaw and his students are experimenting with methods of reforestation.

1987

Kinloch, David
Medical Services Branch
Health and Welfare Canada, and
Barreto, Luis
GNWT Department of Health
Yellowknife, NWT

Location: across the NWT

There is a new medicine, called the Connaught vaccine, that keeps babies from getting meningitis. It has been used in other places, but never before in the NWT. Will it be safe and effective here too? The answer is likely "yes" but this study was designed to make sure.

1986

Lange, Lynda
Boreal Institute for Northern
Studies
CW401 Bio Sciences Bldg.
University of Alberta
Edmonton, Alberta T6G 2E9

Location: across the N.W.T.

Dr. Lange contacted twenty northern native organizations to learn their views on scientific research. She concluded that native organizations want greater involvement in and control of research that affects them. "Joint ventures and cooperative, or partnership, research is strongly recommended...."

1987

Lavoie, Susan
Box 836
Yellowknife, NWT
X1A 2N6

Location: across the NWT

The NWT Child Care Association conducted a survey to assess child-care needs in all NWT communities. Their goal was to prepare a report and action plan for the development of child-care services in the NWT.

1987

Lenz, Alfrd C.
Dept. of Geology
Faculty of Science
University of Western Ontario
London, Ontario
N6A 5B7

Location: Prairie Creek area, outside Nahanni Park

This is a geological project that will involve the collection of rocks and fossils. The objective is to study ancient forms of life.

1986,1987

MacDonald, Glen M.
Dept. of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: Yellowknife area

Scientists predict that the Earth's climate will change because the atmosphere has been altered by industrial activity. How did plants respond to the last major climatic change, at the end of the Ice Age? This study will examine ancient plant pollens to find answers.

1986

MacPherson, Glenda
School of Social Work
Carleton University
Ottawa, Ontario
K1S 5B6

Location: Yellowknife area

This study was designed to find out what kinds of special services Dene elder needs and whether or not these needs are being met.

1987

Malick, James G.
Norecol Environ. Cons. Ltd.
Ste. 600 1281 W. Georgia St.
Vancouver, B.C.
V6E 3J7

Location: Courageous and Matthews Lake

This company was hired by Noranda Exploration Co. to report on fish populations and habitat in Courageous and Matthews Lake, together with streams and small lakes in the area.

1987

McMahon, Kevin
1007 25 Mutual St.
Toronto, Ontario
M5B 2A7

Location: Iqaluit, Resolute, Cambridge, Inuvik, Yk

What do northerners, particularly community elders, think about Canadian Arctic sovereignty? Kevin McMahon conducted interviews with interested people in several communities.

1987

Nahanni, Phoebe
3816 Grey Avenue
Montreal, Quebec
H4A 3N7

Location: Fort Liard

Phoebe Nahanni is interested in the way decisions are made by the hunters of the Lower Liard. Her project is entitled "The spacial dynamics and strategic significance of mobility for a non-industrial people: the case of the Lower Liard hunters and trappers."

1987

Nelson, Gordon
Dept. of Geography
University of Waterloo
Waterloo, Ontario
N2L 3G1

Location: Wood Buffalo National Park

The researchers paid a brief visit to the park to consult with local people about a proposed study on the relationship between park lands and native communities.

1987

Osawa, Akira
College of Forest Resources
University of Washington
AR-10
Seattle, Washington 98195

Location: Wood Buffalo National Park and area

This is a study of jack pines and the way they "thin themselves" to achieve space amongst the trees.

1987

Paulette, Lesley
ChildEarth Resources
Box 305
Fort Smith, NWT
X0E 0P0

Location: Fort Franklin, Inuvik, Fort Rae, Yellowknife

The Native Women's Association of the NWT wants to obtain information on the quality of maternity care in the NWT. This will be used in identifying areas for further research and for promoting improved maternal and infant care in the Territories.

1987

Perkins, Robert F.
180 Chestnut St.
Cambridge Massachusetts 02139

Location: Back River area

By making notes and taking photographs, Robert Perkins and his coworkers studied flowering plants in the area of the Back River.

1986

Peterson, Gordon
Faculty of Environmental Design
University of Calgary
2500 University Drive NW
Calgary, Alberta
T2N 1N4

Location: Fort Smith

This project was designed to demonstrate that satellite pictures ("remote sensing") could be used to map and study caribou range and the regeneration of areas that had been burned.

1987

Prowse, Terry D.
Northern Hydrology Section
National Hydrology Research
Institute
11 Innovation Boulevard
Saskatoon, Sask. S7N 3H5

Location: Resolute Bay, Ft. Simpson, Mackenzie Delta

This project included investigations of the river ice jams and breakup in the Fort Simpson region; the breakup in the Mackenzie River and Delta; water balance in Mackenzie Delta lakes; and snow-soil interactions near Resolute Bay.

1987

Roadhouse-Bresnahan, Barbara
and Sandy Stewart
Box 1089
Richmond Ontario
K0A 2Z0

Location: Iqaluit, Yellowknife, Inuvik

Why do so many northern women become politically active? The researchers interviewed women in three northern communities in their search for answers.

1987

Saxon, Leslie
Dept. of Linguistics
Memorial University of
Newfoundland
St. John's, Newfoundland
A1B 3X9

Location: Yellowknife and Rae-Edzo

What are the rules for asking questions in Dogrib? What are the correct ways of using pronouns? Dr. Saxon wants to answer these questions as part of a study of sentence structure in the Dogrib language.

1987

Shaw, John
Dept. of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Location: Drumlin Lake

Drumlins and eskers are two typical northern landforms that were shaped by the glaciers. One theory suggests that drumlins were formed by catastrophic floods as the glaciers melted. John Shaw and his coworkers conducted studies that may help prove or disprove this idea.

1987

Simpson, Lloyd G.
Junior Specialist
University of California
Santa Barbara, California 93106

Location: boreal forest area

These researchers are trying to estimate the amount of living material in North American boreal forests. To do this, they first have to measure trees and shrubs in sample plots. Their findings may help scientists predict the effects of climate changes and other disturbances.

1986

Smith, Derald
Dept. of Geography
University of Calgary
Calgary, Alberta
T2N 1N4

Location: Fort Resolution and Fort Smith areas

When the Earth was under the glaciers, it was pushed down by the weight of the ice and is still coming back up. Derald Smith is studying the rebound rate and other characteristics of the Slave River Delta.

1987

Smith, Geoffrey M.
Environmental Consulting &
Technical Services
1005 Shakespeare Avenue
North Vancouver, B.C.
V7K 1E7

Location: Salmita Mine

Environmental Consulting and Technical Services was hired to check the health of fish and fish habitat around Salmita Mine. They were to test fish for heavy metals and to find out what kinds of fish were living in the streams and lakes around the mine.

1986

Spencer, Richard
Spencer Environmental
Management Services Ltd.
414 Boardwalk
10310-102 Avenue
Edmonton, Alberta T5J 2X6

Location: Bullmoose Lake watershed

Spencer Environmental Management Services Ltd. was on contract to Terra Mines to collect information around Bullmoose Lake for permit applications.

1986

Sweda, Tatsuo
Dept. of Forestry
Nagoya University
Chikusa, Nagoya
Japan 464

Location: south Mackenzie area

Dr. Sweda came from Japan to study the fire history of forests around the south coast of Great Slave Lake.

1987

Urschel, John
Dept. of Psychiatry
Faculty of Medicine
1E 1.01 Mackenzie Centre
University of Alberta
Edmonton, Alberta T6G 2B7

Location: Yellowknife

As part of a study of suicide among native people in Canada, Australia and New Zealand, John Urschel collected statistical information from the NWT.

1986, 1987

Wein, Eleanor E.
Associate Professor
Faculty of Education
University of New Brunswick
Frederickton, N.B.

Location: Fort Chipewyan and Fort Smith

Are people who eat a lot of country food better nourished than those who rely primarily on food from the store? Eleanor Wein and her coworkers have been collecting information to answer this question.

1986

Wiggins, Glenn B.
Curator-in-Charge
Dept. of Entomology
Royal Ontario Museum
100 Queen's Park
Toronto, Ontario M5S 2C6

Location: Yellowknife area

Glenn Wiggins is an insect expert. He collected specimens of caddisflies for the collections at the Royal Ontario Museum.

1987

Zallen, Morris
ESL Environmental Sciences
Limited
1035 Richards St.
Vancouver, B.C.
V6B 3E4

Location: Snowdrift, Ft. Resolution, Ft. Smith, Detah, Yk

Would low-level military test flights harm migratory birds and mammals along the route? Would they affect hunting and community life? Environmental Services Limited was commissioned to report on these questions.

Inuvik Region

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

Location: western Northwest Territories

Was Transport Canada's Native Flight Service Station Operators Training Program a success? What were the reasons for its success -- or failure?

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

Location: across the Northwest Territories

What factors contribute to the success of a training program for native northerners? What factors lead to failure? Frances Abele, as Director of the Native Employment Training Study, is trying to draw some conclusions.

1987

Bailey, Robert C.
Dept. of Zoology
University of Western Ontario
London, Ontario
N6A 5B7

Location: Inuvik area; Dempster Highway to McPherson

Robert Bailey is studying soft-bodied animals that live on stream bottoms in the Mackenzie Delta area ("benthic invertebrates"). He wants to know what species are present, which are most numerous, and what living conditions each prefers.

1986

Bailey, Robert C.
Dept. of Zoology
University of Western Ontario
London, Ontario
N6A 5B7

Location: Inuvik

What happens to the animals in a lake when a float plane base goes in? This research suggests that at least one species, the Northern Floater Mussel, may be harmed. These mussels are food for muskrats.

1987

Barreto, Luis
Department of Health
Government of the NWT
Box 1320
Yellowknife, NWT
X1Z 2L9

Location: across the NWT

This project is designed to find out more about cancer among Inuit people. How common is the disease? What kinds of cancers occur most often? What age groups are affected? Are the patterns the same in Canada as in other circumpolar regions? This questions will be answered by reviewing medical records and statistics.

1987

Behan-Pelletier, Valier
Agriculture Canada
Biosystematics Research Centre
Ottawa, Ontario
K1A 0C6

Location: Richardson Mountains, Dempster Highway

This project involves studying and collecting insects and mites (tiny spiders) along the Dempster Highway, from the Yukon border to Inuvik, and in the northern Richardson Mountains.

1986, 1987

Boileau, Marc. G.
Dept. of Biology
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Inuvik, Tuktoyaktuk; Eskimo Pt., Igloodik, Rankin

Marc Boileau is interested in the ecology and population genetics of freshwater invertebrates in the Arctic. His research took him to Inuvik and Tuk in 1986 and to Eskimo Point, Igloodik and Rankin in 1987.

1987

Burn, Christopher
Dept. of Geography
University of British Columbia
#217 1984 West Mall
Vancouver, B.C.
V6T 1W5

Location: Mackenzie Delta/Beaufort Sea

These researchers want to know more about the "frost heave regime" near shore at several sites near Inuvik.

1986, 1987

Condon, Richard
Arctic Studies
Hubbard Hall
Bowdoin College
Brunswick, Maine

Location: Holman Island

What is it like to be a teenager in Holman Island? How have recent social changes affected the way that young people think, act and feel? Richard Condon has written a book, called "Inuit Youth, Growth and Change in the Canadian Arctic," about what he has learned.

1986

Cook, Frederick A.
Dept. of Geology and Geophysics
University of Calgary
Calgary, Alberta
T2N 1N4

Location: Inuvik to Richards Island

Frederick Cook is studying the geological evolution of the Mackenzie Delta/Beaufort Sea area.

1986

Davis, Rolph A.
LGL Limited
22 Fisher St.
Box 280
King City, Ontario
L0G 1K0

Location: Herschel Island east to Tuk peninsula

The researchers want to know about whales in the Beaufort Sea, especially between Herschel Island and the Tuk Peninsula. Is this area especially important for the whales?

1987

Dickson, H. Loney
Wildlife Biologist
Canadian Wildlife Service
2nd floor 4999 98A Avenue
Edmonton, Alberta
T6B 2X3

Location: Beaufort area

A gas-gathering site may be constructed on Richards Island as part of the proposed Polar Gas Pipeline. The Canadian Wildlife Service wants to know more about shorebirds and other migratory birds in the area, so that their needs can be taken into account.

1986

Dickson, H. Loney
Wildlife Biologist
Canadian Wildlife Service
2nd floor 4999 98 A Avenue
Edmonton, Alberta
T6B 2X3

Location: Richard Island; Kendal Island Bird sanctuary

In order to learn about birds, you have to study what they eat. Loney Dickson looked at the distribution of certain kinds of plants in order to define the habitat preferences of various bird species.

1986

Dillinger, Robert
Dept. of Biology
Memorial University of
Newfoundland
St. John's, Nfld.
A1B 3X9

Location: Fort McPherson, Inuvik, Dempster Highway

Robert Dillinger is learning about the Arctic Cisco that live in the Peel, Arctic Red, Liard and Mackenzie Rivers. He also wants to know how the fish in the Peel River are related to those in the Mackenzie and Yukon rivers.

1987

Farmer, D. and S.R. Waddell
Institute of Ocean Sciences
Box 6000
9860 W. Saanich Road
Sidney, B.C.
V8L 4B2

Location: Baillie Island, Tuktoyaktuk

What does it sound like under the ice of the Arctic Ocean, just before summer break-up and at other season? What makes the noise and how do sounds carry down there? Drs Farmer and Waddell may have some answers by now.

1987

Ford, Derek C.
 Dept. of Geography
 McMaster University
 1280 Main Street West
 Hamilton, Ontario
 L8S 4K1

Location: Bear Rock Formation, Mackenzie Mountains

These researchers are interested in the origin of the landforms in the Bear Rock Formation and the way in which water sinks into and through it, to emerge as springs.

1987

Garry, Clarke E.
 Dept. of Biology
 University of Wisconsin - River
 Falls
 River Falls, Wisconsin 54022

Location: Dempster Highway west of Inuvik

What beetles occur in the open forest, boreal woodlands and tundra of the Yukon and NWT? Which kinds are likely to be found together? Where do different kinds like to live? Clarke Garry is trying to find out.

1986

Gaudet, James R.
 332 Campbell Road
 North Andover, Ma. 01845

Location: Great Bear Lake

James Gaudet went to Dease Arm of Great Bear Lake to gather wild flowers, lichen, mosses, mushrooms and other vegetation. He is studying the antifreeze systems of northern plants.

1987

Godel, John
 Dept. of Pediatrics
 Charles Cammell Hospital
 12815 - 125 Avenue
 Edmonton, Alberta
 T5M 3A4

Location: Inuvik

Dr. Godel and a team of researchers will spend the next two years studying the nutrition of pregnant women in the Inuvik area. This project may yield new information about health problems experienced by northern-born infants.

1987

Green, J.M.
 Dept. of Biology
 Memorial University of Nfld.
 St. John's, Nfld.
 A1B 3X9

Location: Arctic Red River and Inuvik areas

How did fish disperse after the glaciers left the upper Mackenzie area? By studying the genetics of modern fish populations, these researchers hope to figure out what happened 10,000 years ago.

1986

Hochstein, Barry A.
Arctic Institute of North America
University of Calgary
2500 University Drive NW
Calgary, Alberta
T2N 1N4

Location: Inuvik

Barry Hochstein visited Inuvik to gather historical information for his study of COPE.

1987

Howland, William G.
Northern Studies Program
Middlebury College
Middlebury, Vermont 05753

Location: Caribou Hills and Inuvik

In the Caribou Hills, areas are sometimes stripped of vegetation by landslides. What plants grow in during the first ten years after such an event? Is there much erosion? What plants naturally occur in the Hills? These are some of the questions to be answered.

1986

Hutchinson, T.C.
Dept. of Botany
University of Toronto
Toronto, Ontario
M5S 1A1

Location: Smoking Hills of Cape Bathurst

The Smoking Hills of Cape Bathurst produce acidic fumes -- yet both land and water plants still manage to survive in the area. Professor Hutchinson and his colleagues are trying to find out how they do it.

1986, 1987

Kerr, Daniel E.
Dept. of Geology
University of Alberta
Edmonton, Alberta
T6G 2E3

Location: Tuktoyaktuk, Coppermine, Bathurst Inlet

The older a rock is, the deeper it is likely to be beneath the surface of the earth. One way in which rocks come to light is through the action of rivers. Daniel Kerr is studying ancient deposits where they have been exposed by rivers along the north coast of North America.

1987

Kershaw, Linda J.
51163, Road 204
Sherwood Park, Alberta
T8G 1E5

Location: Dempster Highway

Linda Kershaw, together with two other plant enthusiasts, is studying and photographing plants along the Dempster Highway. They plan to prepare a book about the plants and about the natural history of the route.

1987

Kinloch, David
 Medical Services Branch
 Health and Welfare Canada, and
 Barreto, Luis
 GNWT Department of Health
 Yellowknife, NWT

Location: across the NWT

There is a new medicine, called the Connaught vaccine, that keeps babies from getting meningitis. It has been used in other places, but never before in the NWT. Will it be safe and effective here too? The answer is likely "yes" but this study was designed to make sure.

1986

Koebberling, Uschi
 Dept. of Communication
 Simon Fraser University
 Burnaby, B.C.
 V5A 1S6

Location: Inuvik and Inuvialuit settlements

Are the new telecommunication technologies (TV, satellites, etc.) being used by native people to strengthen their communities? Uschi Koebberling interviewed community leaders to find out what was happening.

1987

Lane, Larry
 Institute of Sedimentary and
 Petroleum Geology
 Geological Survey of Canada
 3303 33rd St NW
 Calgary, Alberta T2L 2A7

Location: Richardson Mountains

How did the Richardson Mountains come to be? That is one of the questions that interests Dr. Lane and his colleagues. They use a variety of techniques to obtain information, including observation, collection of fossils, and measurements of magnetic and gravitational forces.

1986

Lange, Lynda
 Boreal Institute for Northern
 Studies
 CW401 Bio Sciences Bldg.
 University of Alberta
 Edmonton, Alberta T6G 2E9

Location: Fort Franklin

Since 1945, much has changed for the Dene. Lynda Lange wants to understand how these changes have affected the status and work of Dene women. She has written a paper on this subject entitled "The Changing Situation of Dene Elders, and of Marriage, in the Context of Colonialism: the experience of Fort Franklin, 1940-1985."

1986

Lange, Lynda
 Boreal Institute for Northern
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 CW401 Bio Sciences Bldg.
 University of Alberta
 Edmonton, Alberta T6G 2E9

Location: across the NWT

Dr. Lange contacted twenty northern native organizations to learn their views on scientific research. She concluded that native organizations want greater involvement in and control of research that affects them. "Joint ventures and cooperative, or partnership, research is strongly recommended...."

1987

Lavoie, Susan
Box 836
Yellowknife, NWT
X1A 2N6

Location: across the NWT

The NWT Child Care Association conducted a survey to assess child-care needs in all NWT communities. Their goal was to prepare a report and action plan for the development of child-care services in the NWT.

1986

Macdonald, R.W.
Institute of Ocean Sciences
Box 6000
9860 West Saanich Road
Sidney, B.C.
V8L 4B2

Location: Tuktoyaktuk and Inuvik areas

When hydrocarbons (oil-like substances) get into the Beaufort Sea from natural sources, what happens to them? The researchers hope to use their findings to help plan for accidental oil spills.

1987

MacDonell, Don
Fisheries Biologist
North/South Consultants Inc.
661 Pembina Highway
Winnipeg, Manitoba
R3M 2L5

Location: Big Fish River area

These biologists want to know how many Arctic Char and other kinds of fish live in the Big Fish River. They are going to use two methods of counting (a weir and a Schaefer Population Estimate) and compare their results.

1986, 1987

Mackay, J. R.
Dept. of Geography
University of British Columbia
Vancouver, B.C.
V6T 1W5

Location: Tuktoyaktuk and area

How do pingoes grow and decay? What are the characteristics of ice in permafrost? These are a few of the questions that Ross Mackay, a long-time northern researcher, is answering.

1987

MacNeil, Ian
Senior Planner
Terrestrial Studies
National Parks Systems Branch
Ottawa, Ontario
K1A 1G2

Location: Liverpool Bay, Franklin Bay and area

This is an air reconnaissance study of "three potential marine natural areas of Canadian significance."

1987

Marvin, LuDean
B414 Bio Sciences Centre
University of Alberta
Edmonton, Alberta
T6G 2E9

Location: Inuvik and Dempster highway area, Tungsten

Scientists don't agree on the "family relationships" of a group of plants called cinquefoils (*Potentilla*). LuDean Marvin hopes to clear up the confusion.

1986, 1987

Mattner, Jorg
Geologisches Institute der TU
Clausthal
Leibnitzstrasse 10
3392 Clausthal
West Germany

Location: McDougall Pass, Richardson Mountains

When mountains are formed, ancient layers of the Earth are sometimes exposed. Jorg Mattner is studying rocks in the Richardson Mountains that were formed about 160,000,000 years ago, about the time when birds first appeared on Earth.

1987

McIntosh, Debbie
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Fort Norman area

Debbie McIntosh's project is to prepare a land-use plan for the Fort Norman block land transfer region, Drum (Wrigley) Lake, June Lake, Caribou Flats and Willow (Brackette) Lake. She planned to do her work in consultation with the hamlet council, as well as other interested groups and individuals.

1987

McMahon, Kevin
1007 25 Mutual St.
Toronto, Ontario
M5B 2A7

Location: Iqaluit, Resolute, Cambridge, Inuvik, Yk

What do northerners, particularly community elders, think about Canadian Arctic sovereignty? Kevin McMahon conducted interviews with interested people in several communities.

1986, 1987

Melling, Humfrey
Ocean Physics Division
Institute of Ocean Sciences
Box 6000
9860 West Saanich Road
Sidney, B.C. V8L 4B2

Location: Beaufort Sea north of Tuktoyaktuk

Humfrey Melling is studying the interaction between moving pack ice and the underlying ocean, in the hope of being able to predict ice movement several days in advance. With this knowledge it may be possible to prevent damage to drilling platforms.

1987

Melling, Humfrey
 Ocean Physics Division
 Institute of Ocean Sciences
 Box 6000
 9869 W. Saanich Road
 Sidney, B.C. V8L 4B2

Location: Tuktoyaktuk, Beaufort Sea

Even winter ice cover is part of the natural cycle. In this study, the researchers are investigating "the regional ice budget" and the recycling of nutrients to the surface of the ocean.

1986

Norton, Pamela
 Environmental Sciences
 Limited
 34-1035 Richards St.
 Vancouver, B.C.
 V6B 3E4

Location: South-east Beaufort Sea, Franklin Bay

The distribution of bowhead whales in the Beaufort has been studied for seven years. The researchers want to understand which areas are important to the whales at different times of year and times of life.

1987

Paulette, Lesley
 ChildEarth Resources
 Box 305
 Fort Smith, NWT
 X0E 0P0

Location: Fort Franklin, Inuvik, Fort Rae, Yellowknife

The Native Women's Association of the NWT wants to obtain information on the quality of maternity care in the NWT. This will be used in identifying areas for further research and for promoting improved maternal and infant care in the Territories.

1986, 1987

Pearce, Cheryl M.
 Department of Geography
 University of Western Ontario
 London, Ontario
 N6A 5C2

Location: Mackenzie River Delta

Over the last several years, Cheryl Pearce has been studying the history of vegetation in the Mackenzie Delta. She is interested in learning the conditions that permit different kinds of plants to grow.

1987

Pollard, Wayne H.
 Dept. of Geography
 Memorial University of Nfld.
 St. John's, Newfoundland
 A1B 3X9

Location: Tuktoyaktuk, lower Eskimo Lakes area

If you thought ice was "just" frozen water, you were wrong. This study involved measuring and describing the varying characteristics of different samples of ground ice.

1987

Prowse, Terry D.
Northern Hydrology Section
National Hydrology Research
Institute
11 Innovation Boulevard
Saskatoon, Sask. S7N 3H5

Location: Resolute Bay, Ft. Simpson, Mackenzie Delta

This project included investigations of the river ice jams and breakup in the Fort Simpson region; the breakup in the Mackenzie River and Delta; water balance in Mackenzie Delta lakes; and snow-soil interactions near Resolute Bay.

1987

Rees, William
School of Community and
Regional Planning
University of British Columbia
6333 Memorial Rd
Vancouver, B.C. V6T 1W5

Location: Fort Good Hope

This project was designed to document and evaluate Fort Good Hope's self-help housing project. The researchers hope to find out what people think about the program, learn how it might be improved and suggest ways in which other communities might learn from Fort Good Hope's experience.

1987

Ring, Richard A.
Dept of Biology
University of Victoria
Box 1700
Victoria, B.C.
V8W 2Y2

Location: Inuvik, Tuktoyaktuk

Supercooled bugs -- this project should tell us more about how insects survive the long, intense Arctic cold.

1986, 1987

Ritchie, J.C.
University of Toronto
Scarborough Campus
1265 Military Trail
Scarborough, Ontario
M1C 1A4

Location: Tuktoyaktuk peninsula

This research aims to unfold the sequence of vegetation that re-colonized the Mackenzie Delta region since the glaciers left. For example, why has the arctic tree-line been changing position?

1987

Roadhouse-Bresnahan, Barbara
and Sandy Stewart
Box 1089
Richmond Ontario
K0A 2Z0

Location: Iqaluit, Yellowknife, Inuvik

Why do so many northern women become politically active? The researchers interviewed women in three northern communities in their search for answers.

1986

Schunke, Ekkehard
Geographisches Institut
Universitat Gottingen
Goldschmidstrasse 5
D-3400 Gottingen
Federal Republic of Germany

Location: Richardson Mountains

This study looked at aspects of the geology of the Richardson Mountains.

1987

Scriven, David
59 Roncevalles Avenue, Apt. 8
Toronto, Ontario
M6R 2K5

Location: Norman Wells\and area

As part of a larger study, undertaken on behalf of the Canadian Environmental Assessment Research Council, David Scriven conducted several telephone interviews about the environmental assessment process for the Norman Wells pipeline.

1986, 1987

Sherstone, David A.
A/Director
Scientific Services
Box 1500
Yellowknife, NWT
X1A 2R3

Location: Inuvik

How does ice grow and decay in Arctic rivers? David Sherstone has been studying this process for several years.

1987

Simpson, Lloyd G.
Junior Specialist
University of California
Santa Barbara, California 93106

Location: boreal forest area

These researchers are trying to estimate the amount of living material in North American boreal forests. To do this, they first have to measure trees and shrubs in sample plots. Their findings may help scientists predict the effects of climate changes and other disturbances.

1987

Sloggett, Joel
1350 Armstrong Drive
Peterborough, Ontario
K9J 6G3

Location: Tuktoyaktuk

Joel Sloggett is assessing the importance of fur harvesting in the economy of Tuktoyaktuk. He wants to know if it became less important to the community over the ten years from 1977 to 1987.

1986

Sparling, Paul
Arctic Biological Consultants
Box 84, 1 McWilliams Pl.
Pinawa, Manitoba
R0E 1L0

Location: Big Fish River and Rat River

This company was asked to check the Arctic Char in the Big Fish and Rat rivers, to see if the population was in good shape.

1986, 1987

Stirling, Ian
Canadian Wildlife Service
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Location: around Resolute Bay and the Beaufort Sea

Ian Stirling and his colleagues studied polar bears and other marine animals in the Arctic islands. As part of the project, bears were shot with tranquilizers and marked with dye so they could be followed. The researchers also collected the reproductive organs of polar bears and seals killed by hunters.

1986

Therrien, Beverly K.
Dept. of Political Science
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Aklavik

Do resource management boards really have the authority to manage the resource in their care? How much influence do the native members have? The study focused on the Porcupine Caribou Management Board.

1987

Tonn, W. M.
Dept of Zoology
University of Alberta
Edmonton, Alberta
T6G 2E9

Location: Inuvik area

W. M. Tonn went fishing. He sampled fish from a number of small lakes around Inuvik to begin gathering information on arctic fish ecology.

1986

Waldbrook, Lori
Dept. of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Inuvik and the Inuvialuit settlements

Lori Waldbrook is looking into the role of development corporations in the administration of the Inuvialuit land claim settlement.

1987

Location: Inuvik, Tununuk Pt., Caribou Hills, Tuktoyaktuk

Wein, Ross W.
Dept. of Land Resource Science
University of Guelph
Guelph, Ontario
N1G 2W1

What happens when the land is disturbed by oil spills, fire and vehicle traffic? Does it eventually return to normal? This study took a new look at disturbance experiments in the Mackenzie Delta.

Keewatin Region

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

Location: across the NWT

What factors contribute to the success of a training program for native northerners? What factors lead to failure? Frances Abele, as Director of the Native Employment Training Study, is trying to draw some conclusions.

1987

Barreto, Luis
Department of Health
Government of the NWT
Box 1320
Yellowknife, NWT
X1Z 2L9

Location: across the NWT

This project is designed to find out more about cancer among Inuit people. How common is the disease? What kinds of cancers occur most often? What age groups are affected? Are the patterns the same in Canada as in other circumpolar regions? These questions will be answered by reviewing medical records and statistics.

1986, 1987

Boileau, Marc. G.
Dept. of Biology
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Inuvik, Tuktoyaktuk; Eskimo Pt., Igloolik, Rankin

Marc Boileau is interested in the ecology and population genetics of freshwater invertebrates in the Arctic. His research took him to Inuvik and Tuk in 1986 and to Eskimo Point, Igloolik and Rankin in 1987.

1987

Cummings, Gregory
General Delivery
Baker Lake, NWT
X0C 0A0

Location: communities in the Keewatin

Do people who go to court under the Young Offenders Act understand the proceedings well enough to participate fully in what is going on? Gregory Cummings is interviewing young offenders on probation to find out how well they think the Act is working.

1987

Cummins, W. Raymond
Dept. of Botany
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location: communities in the Baffin and Keewatin

Raymond Cummins and his coworkers visited Eskimo Point, Rankin Inlet, Chesterfield Inlet, Repulse Bay, Pond Inlet and Resolute Bay to collect plants and seeds. They are especially interested in the respiration and growth rates of Arctic plants.

1986, 1987

Dewar, Patricia
719 5th Avenue North
Saskatoon, Saskatchewan
S7K 2R6

Location: Igloolik, Eskimo Point, Rankin Inlet

Patricia Dewar visited Inuit communities to learn how to do drum dancing and to talk to people about the experience of dancing. She hopes to help make a video that will show old and new ways of performing.

1987

Dewing, Keith
Dept. of Geology
Laurentian University
Sudbury, Ontario
P3E 2C6

Location: Coral Harbour, Southampton Island

Keith Dewing wants to figure out the ages of certain layers of rock that crop out on Southampton Island.

1987

Dunn, James M.
Dept. of Geography
University of Colorado
Boulder, Colorado 80309-0260

Location: Sifton Lake, Hansbury River, Beverley Lake

This classroom has no doors. A dozen students from the University of Colorado studied Arctic field research techniques in the Thelon Game Sanctuary, under the direction of their instructor.

1987

Harnum, Betty
Culture & Communications
Government of the NWT
Box 1320
Yellowknife, NWT
X1A 2L9

Location: Yellowknife, Rankin, Eskimo Pt, Iqaluit, Igloolik

Betty Harnum is studying the way Inuktitut is changing in the Eastern Arctic and Keewatin. She is looking into the development of new words, as well as changes in sounds and sentence structures.

1986

Jefferies, R. L.
Dept. of Botany
University of Toronto
Toronto, Ontario
M5S 1A1

Location: Eskimo Point and McConnell River

Dr. Jefferies looked at the destruction of plant communities as the result of foraging by Lesser Snow Geese, and other causes.

1987

Kinloch, David
 Medical Services Branch
 Health and Welfare Canada, and
 Barreto, Luis
 GNWT Department of Health
 Yellowknife, NWT

Location: across the NWT

There is a new medicine, called the Connaught vaccine, that keeps babies from getting meningitis. It has been used in other places, but never before in the NWT. Will it be safe and effective here too? The answer is likely "yes" but this study was designed to make sure.

1987

Konarek, Joseph
 Dept. of Geography
 Laurentian University
 Site 36, Box 12, R.R. 2
 Sudbury, Ontario
 P3E 4M9

Location: Rankin Inlet

Joseph Konarek is interested in the "viability" of communities in the Keewatin region. What is their history, their natural resources? Do they have economic strengths and good leadership? Are these communities likely to cope well with whatever the future brings? In addition to visiting the Keewatin, the researcher also did archival research in

1986

Lange, Lynda
 Boreal Institute for Northern
 Studies
 CW401 Bio Sciences Bldg.
 University of Alberta
 Edmonton, Alberta T6G 2E9

Location: across the NWT

Dr. Lange contacted twenty northern native organizations to learn their views on scientific research. She concluded that native organizations want greater involvement in and control of research that affects them. "Joint ventures and cooperative, or partnership, research is strongly recommended...."

1987

Lavoie, Susan
 Box 836
 Yellowknife, NWT
 X1A 2N6

Location: across the NWT

The NWT Child Care Association conducted a survey to assess child-care needs in all NWT communities. Their goal was to prepare a report and action plan for the development of child-care services in the NWT.

1987

McBride, Sherri
 Dept. of Clothing and Textiles
 Faculty of Human Ecology
 University of Manitoba
 Winnipeg, Manitoba
 R3T 2N2

Location: Eskimo Point

The people of Eskimo Point make a distinctive kind of cloth hood. Exactly what are they like? How are they made? Why are they designed in this way? Sherri McBride went to find out.

1986, 1987

O'Neil, John
National Health Research Scholar
University of Manitoba
Faculty of Medicine
750 Bannatyne Avenue
Winnipeg Manitoba R3E 1Y9

Location: Keewatin region

Women in the Keewatin have to fly out to have their babies. How does this affect them and their families? This study is being undertaken by a group of researchers, including representatives from the Inuit Women's Association and the Keewatin Inuit Association.

1987

Perkins, Robert F.
180 Chestnut St.
Cambridge Masschusetts 02139

Location: Back River area

By making notes and taking photographs, Robert Perkins and his coworkers studied flowering plants in the area of the Back River.

1986

Sadock, Jerrold M.
Dept. of Linguistics
University of Chicago
Classics Building
1010 East 59th St.
Chicago, Illinois 60637

Location: Eskimo Point and Rankin Inlet

In Inuktitut, one long word can do the work of seven in English. Jerrold Sadock has been comparing the method of word formation ("noun incorporation") in two Canadian Inuit dialects and West Greenlandic.

1986, 1987

Walker, Marilyn
54 Millbrook Crescent
Toronto, Ontario
M4K 1H4

Location: Eskimo Point

Marilyn Walker is studying the "food ways" of the Inuit people of Eskimo Point, both what is eaten and the attitudes and customs associated with food. She is convinced that people choose and treat food in such a way that their eating habits reinforce their culture -- "societal habits, values, and beliefs."

Kitikmeot Region

1986

Abele, Frances
Arctic Institute of North America
University of Calgary
2500 University Dr. NW
Calgary, Alberta
T2N 1N4

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1987

Dyke, Larry
Dept. of Geological Sciences
Queen's University
Kingston, Ontario
K7L 3N6

Location: Cambridge Bay

Where will you find permafrost in a tidal zone? To learn more about this, Larry Dyke put two temperature-sensitive cables into a beach near Cambridge Bay.

1987

Francis, Don
Dept. of Geological Sciences
McGill University
3450 University Street
Montreal, Quebec
H3A 2A7

Location: Stanbridge Lake and Coppermine River

When liquid rock from the interior of the Earth comes to the surface, it chills and hardens. The results of such an event can be seen in the Muskox Layered Intrusion along the Coppermine River. Don Francis thinks the formation may also be rich in platinum.

1987

Hill, Steven G.
57C Apple Lane West
Winnipeg, Manitoba
R2Y 2G9

Location: Cambridge Bay

The Centre on Aging at the University of Manitoba commissioned this study, as part of a national program of research. They wanted to find out if attitudes toward the elderly was changing among Inuit families. Do elders still receive extensive family care?

1986, 1987

Kerr, Daniel E.
Dept. of Geology
University of Alberta
Edmonton, Alberta
T6G 2E3

Location: Tuktoyaktuk, Coppermine, Bathurst Inlet

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Box 836
Yellowknife, NWT
X1A 2N6

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MacNeil, Ian
Senior Planner
Terrestrial Studies
National Parks Systems Branch
Ottawa, Ontario
K1A 1G2

Location: Viscount Melville Sound Marine Region

This is an air reconnaissance study of "three potential marine natural areas of Canadian significance." The itinerary included Dundas Peninsula, Melville Island, Prince of Wales Island and the Boothia Peninsula.

1987

McMahon, Kevin
1007 25 Mutual St.
Toronto, Ontario
M5B 2A7

Location: Iqaluit, Resolute, Cambridge, Inuvik, Yk

What do northerners, particularly community elders, think about Canadian Arctic sovereignty? Kevin McMahon conducted interviews with interested people in several communities.

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180 Chestnut St.
Cambridge Masschusetts 02139

Location: Back River area

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1987

Rainbird, Robert H.
and G.M. Young
Dept. of Geology
University of Western Ontario
London, Ontario
N6A 5B6

Location: Minto Lake, Kuujjua River area

By studying the layered structure of the rocks, the researchers hoped to learn more about the conditions under which they were formed, by ancient seas, tides, storms and wind-blown sand.

1987

Sharpe, David R.
Geological Survey of Canada
601 Booth St.
Ottawa, Ontario
K1A 0E8

Location: Cambridge Bay

By studying the land forms of southern Victoria Island, David Sharpe hopes to learn more about the movements of glaciers during the last Ice Age. Fossil shells and wood will be collected and carbon-dated so he can tell when various layers of material were deposited.

1986

St.-Onge, Denis A.
Quaternary Geology Subdivision
Geological Survey of Canada
601 Booth St.
Ottawa, Ontario
K1A 0E8

Location: area south of Dolphin and Union straits

In this study, the researcher collected small samples of rocks to determine their nature, origin and age.

1987

Stewart, D. Bruce
Arctic Biological Consultants
Box 84, 1 McWilliam Place
Pinawa, Manitoba
R0E 1L0

Location: Prince Albert Sound, Victoria Island

Could a commercial char fishery be established on the Kuuk, Nalaogyuk and Kagluk Rivers? Bruce Stewart used weirs and nets to count the fish and analyzed samples for pesticides and heavy metals. This research was commissioned by the Department of Fisheries and Oceans.

1986, 1987

Thannheiser, Dietbert
Institut fur Geographie
Universitat Hamburg
Bundesstrasse 55
2000 Hamburg 13
Federal Republic of Germany

Location: Cambridge Bay, Gjoa Haven

Dietbert Thannheiser is visiting representative areas of the Arctic to study the plant communities. One of his objectives is to offer an objective definition of the "low," "high," and "middle" Arctic zones. In 1987 he concentrated his research around Bathurst Inlet and Coppermine.

1986

Webster, Andrew
391 Park Hill Road W.
Peterborough, Ontario
K9H 3J2

Location: Pelly Bay and Simpson Peninsula

This is a study of Earth history. The researcher wants to know how and when the glaciers of the last Ice Age retreated from the area around Pelly Bay.

1986

Young, G.M.
Dept. of Geology
University of Western Ontario
London, Ontario
N6A 5B7

Location: Victoria Island

This was a study of the geology of the Kuujjua River on Victoria Island.

Research Reports

The following research reports are on file with the Science Institute of the Northwest Territories. The easiest way to use this list is, first, to locate research projects that interest you and, then, to check here for the researcher's name.

We will be happy to share these papers with anyone who requires them.

Abele, Frances, and Ross, James. 1986. *A study of Transport Canada (western region) pilot project: flight service specialist training for native people. Phase two report: the experience of the first cohort.*, Arctic Institute of North America, University of Calgary, 48 pages.

Adams, W. Peter, 1987, "Axel Heiberg 1986 -- field report," 1- page.

Aiken, S. G. 1987. "Research report for NWT Science Research Licence Number 6050," 2 pages, plus "Records of the plant specimens collected on Baffin Island in 1986 by Dr. S.G. Aiken and party," 65 pages.

Annas, Richard. 1987. "A preliminary overview of a wetlands classification system for the Northwest Territories," Habitat Management, Department of Renewable Resources, GNWT, 6 pages.

Bailey, Robert C. 1987. "The northern floater mussel in Shell Lake, NWT," 5 pages.

Basinger, James. F. 1987. "Our 'tropical' Arctic," *Canadian Geographic* January, 1987, pages 28-37.

Beattie, Owen. 1987. "Report on the 1986 field season at Beechey Island, NWT (investigating the Third Franklin Expedition)," illustrated 25-page report.

Beyens, L. "Note on the research done on the Truelove and Sparbo Hardy lowlands, July 1987," 2 pages.

Boileau, Marc G. 1987. "Report to the Science Advisor on the scientific work done and information obtained by Marc G. Boileau," 1 page.

Chatterton, Brian D.E. 1987. "Ordovician and Silurian stratigraphy in the Mackenzie Mountains," 1- page summary

Condon, Richard G. 1987. *Inuit Youth: growth and change in the Canadian Arctic*. London: Rutgers University Press, 252 pages.

Cook, Frederic A., and others. 1987. "Structure of the southwest margin of the Beaufort-Mackenzie basin, arctic Canada, from crustal seismic reflection data," 20- page unpublished report.

- Cosens, Suan E. 1987. "Whales and icebreakers in the eastern Arctic: a summary of our 1986 field season," 9 pages.
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- Dickson, H. Loney, and Smith Alan R. 1987. "Shorebirds of the outer Mackenzie Delta/Richards Island area 1985-1986, progress report," draft manuscript, 185 pages.
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- Enarson, D.A. 1986. "Progress report: program for the early detection of lung cancer," 20-page unpublished report. *See also* Embree, above.
- Evans, David J.A. 1987. "Preliminary report to the Science Institute of the Northwest Territories," 2 pages.
- Environmental Sciences Limited. no date. "BEMP project overview No. 1," 3 pages.
- Forbes, D.L., and others. 1986. "Coastal studies in the western Arctic archipelago (Melville, Mackenzie King, Loughheed and nearby islands)," Cruise report 86302, Bedford Institute of Oceanography, Geological Survey of Canada, 29 pages.
- Gruezo, William. 1987. "Progress report, 1986," 8 pages.
- Harnum, Betty. 1987, "Report on Northern Scientific Training Program Grant, re: Betty Harnum, Summer 1987," 4 pages.
- Hochstein, Barry A. no date. "Buying cultural permanence: COPE and the federal government of Canada," 20-page report.

- Hutchinson, Tom, and others. 1987. "Biological research at the Smoking Hills area of Cape Bathurst, NWT," 2 pages.
- Jacobs, John D. 1987. "An approach to assessing the impacts of climate change in the eastern Arctic," In 2-page abstract in Programs, Abstracts and News, Canadian Committee on Climatic Fluctuations and Man annual meeting, Ottawa, January 29-30.
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- Jeffries, Martin O. 1987. "Arctic ice shelf and ice island studies, 1986," 5-page non-technical report.
- Kaufert, Patricia A, and others. 1987. "Obstetric care in the Keewatin: changes in the place of birth 1971 - 1985," paper prepared for presentation at the 7th International Congress on Circumpolar Health, Umea Sweden, June 8-12, 1987, 13 pages.
- Kerr, Daniel E. 1987. "Late quaternary glaciomarine and marine stratigraphy, mainland coast, Northwest Territories," 1 page; also a brief non-technical report.
- Koebberling, Uschi. 1986. *Communication and culture in the western arctic: a case study on the growth of Inuvialuit-controlled broadcasting*, 91 pages.
- Konarek, Joseph, "A look at Lake Harbour, Northwest Territories, *Laurentian University Review* 28: 147-50.
- Kukal, Olga, and Kevan, Peter G. 1987. "The influence of parasitism on the life history of a high arctic insect, *Gynaephora groenlandica* (Wocke) (Lepidoptera: Lymnatriidae) *Canadian Journal of Zoology* 65: 156-63.; also "NMR probes freeze tolerance in arctic insect," 1- page article.
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Lewkowicz, A.G. 1987. "Scientific report NWT Science Research License No. 6067," and "Popular report NWT Science Research License No. 6067," 3 pages and 2 pages respectively.

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- Ogilvie, Carey. 1987 "Progress report 1987," 6 pages.
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- Robertson, Kelly. 1987. "Progress report 87," 4 pages.
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- . "Noun incorporation in Keewatin Inuktitut," 22-page report.
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