

1986

Index of Licenced Research Northwest Territories 1985

Science Advisor
P.o. Box 1617
Government of the Northwest Territories

January 1986

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INTRODUCTION

Scientific Research Licenses are mandatory for all research conducted in the N.W.T. There are three categories. Wildlife Research is licensed by the Department of Renewable Resources, Archaeology is licensed by the Prince of Wales Northern Heritage Centre and all other research is licensed by the Science Advisor under the Scientists Act. A description of the procedures is appended to the Index.

During the 1985 calendar year 260 licences to carry out scientific research were issued to scientists. Ninety-four 1985 licences were issued to scientists directly affiliated with educational institutions. Of these 94 licences, 79 were issued to scientists from Canadian universities, 13 to scientists from U.S. universities, and 2 to scientists from other foreign universities. Of the 79 licences granted to scientists from Canadian universities:

Ontario received	40
Alberta received	13
Quebec received	9
British Columbia received	1
Manitoba received	5
Newfoundland received	3
Saskatchewan received	2

The index of licenced research gives the following information on each project: licence number, name and address of affiliation of licensee, objective of the research and its location.

It should be noted that investigators are obligated by the Ordinance to supply a report to the Commissioner within a stated time. These reports are available on application in Yellowknife.

Dan Billing,
Science Advisor.

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SCIENTIFIC RESEARCH LICENCES

BIOLOGICAL RESEARCH

Licence Number

5032

Licensee: Dr. Sylvia A. Edlund
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Objective: To compare plant communities on various surficial materials on Melville, Eglinton and Prince Patrick Islands. Soil samples and herbarium specimens to be taken.

Location: Based on Melville Island (Ibbett Bay).

5145

Licensee: Elizabeth M. Neil
Biologist
Reid Crowther & Partners Ltd.
#200 - 260 West Esplanade
North Vancouver, B.C.
V7M3G7

Objective: To develop and test a conceptual model tracing aquatic contaminants from dose to response. This study would also utilize data gathered under the auspices of Scientific Research Licence #2815 (dated May 9/84).

Location: Contwoyto Lake - Lupine Mine, N.W.T.

5142

Licensee: Dr. John B. Sprague
Department of Zoology
College of Biological Science
University of Guelph
Guelph, Ontario
N1G 2W1

Objective: To collect samples of common amphipod crustaceans, microscopic crustaceans, and algae in order to measure their cadmium content.

Location: Resolute and Pond Inlet.

Licence Number

5141

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

Objective: Collect biophysical information for
permit applications (water, land use,
surface lease).

Location: Bullmoose Lake Watershed
East of Yellowknife.

5138

Licensee: Claire Cirone
Southern 100, Blvd. E.,
Guttenburg, N.J.,
07093

Objective: To collect tissue samples from Narwhal
and Beluga for DNA extraction and cell
cultures taken from a hunter kill to
obtain a more detailed and completed
picture of the DNA complex in Narwhal
and Beluga Whales.

Location: Pond Inlet, N.W.T.

5135

Licensee: Ronald H. Pine
Professor of Ecology
George Williams College
555 Thirty-First Street
Downers Grove, Illinois
60515

Objective: To collect invertebrate and vertebrate
specimens of opportunity.

Location: Devon Island.

Licence Number

5134

Licensee: Rolph A. Davis, Ph.D.
President, LGL Limited
22 Fisher Street
P.O. Box 457
King City, Ontario
LOG 1K0

Objective: To employ recently developed photogrammetric techniques to determine reproductive parameters of the bowhead whale and the status of the Western Arctic bowhead population; and the sampling of zooplankton to determine the availability of bowhead food in the Canadian Beaufort Sea.

Location: Canadian Beaufort Sea and Amundsen Gulf, Mackenzie Delta to the Alaska/Yukon border.

5132

Licensee: Gary Vigers
E.V.S. Consultants Ltd.
195 Pemberton Avenue
North Vancouver, B.C.
V7P 2R4

Objective: To determine acute and sublethal effects of oil (natural seeps) and refinery effluent on fish in the Mackenzie River at Norman Wells. Sublethal effects will include bioaccumulation and tainting. In situ fish cages and laboratory bioassays will be utilized.

Location: In situ studies to be conducted at Norman Wells.

5131

Licensee: William Cross
LGL Limited
22 Fisher Street
P.O. Box 280
King City, Ontario
LOG 1K0

Objective: Monitoring the long term fate and effects of spilled oil in an Arctic subarctic environment.

Location: Cape Hatt North Baffin Island

Licence Number

5130

Licensee: David Sutherland
Environmental Protection Service
Box 370
Yellowknife, N.W.T.,
X1A 2N3

Objective: To establish aquatic environmental quality monitoring sites in the vicinity of "Outer Sun Bay" on Contwoyto Lake. The purpose is to monitor the effectiveness of effluent quality limits imposed on Lupin Mine in protecting the receiving aquatic environment.

Location: Contwoyto Lake vicinity

5127

Licensee: Marc G. Boileau
Department of Biology
University of Windsor
Windsor, Ontario
N9B 3P4

Objective: To continue investigations on the ecology and population genetics of crustacean zooplankton: to focus on the genetic diversity of the four major species of copepods inhabiting the freshwater ponds in the Arctic and the distribution and dispersal of these species since glaciation.

Location: Eskimo Point and Rankin Inlet.

5124

Licensee: John W. McDonald
Project Manager
ESL Environmental Sciences Limited
2035 Mills Road, R.R. #2
Sidney, B.C.
V8L 3S1

Objective: To conduct bowhead whale surveys by (1) systematic aerial surveys, (2) satellite oceanography and ground truthing, and (3) photogrammetric and reconnaissance studies.

Location: Beaufort Sea, From the Alaska-Yukon border (141°W longitude in the west, to 127° 22'W longitude in the east.)

Licence Number

5123

Licensee: Pamela Norton
Sole Proprieter
PN Research Projects
P.O. Box 2296
Sidney, B.C.
V8L 3S8

Objective: To monitor the white whale migration to and distribution and abundance in the Mackenzie Estuary. Secondary objectives are to observe white whale behaviour, to record whale-vessel interactions (if possible) and to quantify the number of whales missed by observers under normal survey conditions. All marine mammal sightings will be recorded.

Location: Southeastern Beaufort Sea, from shore to approximately 71°N Latitude, and from 128° to 141°W Longitude.

5121

Licensee: Richard A. Ring
Associate Professor
Department of Biology
University of Victoria
P.O. Box 1700
Victoria, B.C.
V8W 2Y2

Objective: To continue research on the ecological/physiological/biochemical aspects of insect freezing tolerance and super-cooling ability.

Location: Inuvik and Tuktoyaktuk

5120

Licensee: James F. Basinger
Department of Geological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan
S7N 0W0

Objective: To collect additional fossil plants and to better determine stratigraphy in the vicinity.

Location: Fort Norman area.

Licence Number

5116	<u>Licensee:</u>	Hugh J. MacIsaac University of Toronto Department of Botany Toronto, Ontario M5S 1A1
	Objective:	To determine the nature of zooplankton community structure in both acid and alkaline ponds.
	Location:	Smoking Hills
5115	<u>Licensee:</u>	D.B. Stewart Freshwater Institute 501 University Crescent Winnipeg, Manitoba R3T 2N6
	Objective:	To gather, update and compile information on fish resources and human usage of those resources within the study area. Information will be collected through a review of existing literature, personal interviews with government employees, researchers and local residents, and by synoptic sampling surveys.
	Location:	Baffin Island South of 72°N and East of 80°W and islands in Foxe Basin.
5108	<u>Licensee:</u>	Dr. R.R. Riewe Department of Zoology University of Manitoba Winnipeg, Manitoba R3T 2N2
	Objective:	To determine the distribution and abundance of narwhal whales and to study their behaviour.
	Location:	Arctic Bay (base camp).

Licence Number

5102

Licensee: Erwin Streisinger
232 Elmwood Avenue
Maplewood, N.J.
U.S.A. 07040

Objective: Taxonomic plant identification and distribution data of plants in selected locations within an approximately two-mile band along Bellot Strait.

Location: Northern tip of Boothia Peninsula, along Bellot Strait.

5101

Licensee: Dr. M.C. Lewis
Associate Professor
Department of Biology
Yort University, Faculty of Science
4700 Keele Street
Downsview, Ontario
M3J 1P3

Objective: a) Comparison of resource allocation and reproductive strategies in Arctic plants; b) Ecological distribution of lichens and their potential as monitors of Arctic pollution; c) Hybridization and introgression in Arctic willow; d) Description and analysis of diversity in tundra plant communities.

Location: Igloolik, Sarcpa Lake and Pearce Point.

Licence Number

5100

Licensee: David W. Milani
President
Keewatin Environmental Consulting
Services Ltd.
P.O. Bag #004
Rankin Inlet, N.W.T.
XOC OGO

Objective: To conduct a census of marine mammals
and other wildlife species sighted
from supply and drilling vessels.

Location: Hudson Bay

5098

Licensee: Deborah Cavanagh Ford
Education Coordinator
Vancouver Public Aquarium
P.O. Box 3232
Vancouver, B.C.
V6B 3X8

Objective: To make underwater recordings of
narwhal sounds to compare these
recordings to tapes made in other
areas.

Location: Pond Inlet, Koluktoo Bay and Eclipse
Sound.

5096

Licensee: Peter W. Strahlendorf
c/o Northern Heritage Society
Box 475
Yellowknife, N.W.T.
X1A 2N4

Objective: To conduct numerous ecological studies
within the framework of the Northern
Cultural Heritage Project.

Location: Truelove Lowland on Devon Island.

Licence Number

5087

Licensee: H. Loney Dickson
Wildlife Biologist
Canadian Wildlife Service
#1000, 9942-108 Street
Edmonton, Alberta
T5K 2J5

Objective: To collect vascular plants to more
clearly define the habitat preferences
of the various bird species.

Location: Richards Island, Taglu area and part
of the Kendall Island Bird Sanctuary.

5084

Licensee: Kerstin Williams
Institute of Arctic and Alpine Research
Campus Box 450
University of Colorado
Boulder, Colorado
80309

Objective: Comparative studies of living diatom
flora during and after ice break-up
with diatom thanatocoenoses (death
assemblages) preserved in the sediments.

Location: Frobisher Bay area.

5079

Licensee: Dr. R. Crawford
Arctic Management Research Section
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: To study Arctic Cod distribution
and abundance.

Location: Resolute Bay and vicinity.

Licence Number

5078

Licensee: Dr. Lionel Johnson
Arctic Management Research Section
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: Arctic char biology and experimental
cropping of whitefish and lake trout.

Location: Nauyak Lake, Chitty Lake and Keyhole Lake.

5077

Licensee: Michael Kingsley
Arctic Management Research Section
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: To study ringed seal behaviour; seal
biology and aerial survey; Narwhal
behaviour and vocalization.

Location: Barrow Strait, Amundsen Gulf, Tremblay
Sound (North Baffin Island).

5076

Licensee: Dr. Rob Stewart
Arctic Management Research Section
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: Beluga sampling - reproductive biology.

Location: Pangnirtung (S.E. Baffin Island)
Keewatin Coast (Hudson Bay)
Grise Fjord (Ellesmere Island)

Licence Number

5074

Licensee: Jim Troubridge
R.R. #1
Cayuga, Ontario
NOA 1E0

Objective: To collect and study Arctic insects.

Location: Paulatuk and Richardson Mountains.

5071

Licensee: I. Michael Weis
Assistant Professor
Biology Department
University of Windsor
401 Sunset Avenue
Windsor, Ontario
N9B 3P4

Objective: To study the biological breakdown of sexual reproduction in the birch at and near its range limit.

Location: Frobisher Bay, Pangnirtung and Lake Harbour.

5060

Licensee: Margaret Beaton
Department of Biology
University of Windsor
401 Sunset Avenue
Windsor, Ontario
N9B 3P4

Objective: To take water samples from ponds for a better understanding of the ecology and population genetics of the freshwater cladoceran species, *Daphnia pulex*.

Location: Igloolik area.

Licence Number

5058

Licensee: Olga Kukal
Department of Biology
University of Notre Dame
Notre Dame, Indiana
U.S.A. 46556

Objective: Investigation of the physiological adaptations enabling the survival of *Gynaephora groenlandica* (a moth) in the high arctic environment.

Location: Alexandra Fiord, Ellesmere Island
Truelove Lowland, Devon Island.

5055

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

Objective: To study productivity of high Arctic meadows; continue measurements of the Alexandra Fiord glacier; to remeasure markes colonies of saxicolous lichens.

Location: Alexandra Fiord, Truelove Lowland,
Somerset Island.

5043

Licensee: Bernard P. Bourgoïn
McMaster University
Department of Geology
1280 Main Street West
Hamilton, Ontario
L8S 4M1

Objective: To study marine benthic fauna, mainly bi-valved molluscs.

Location: Tuk Harbour and Tuk Peninsula

Licence Number

5041

Licensee: Margarete Kalin
Boojum Research Ltd.
139 Amelia Street
Toronto, Ontario
M4X 1E6

Objective: To compile and provide an analysis of the environmental status of "Hardrock" mining sites in the NWT and Yukon which became inactive before the year 1983.

Location: Yellowknife and Whitehorse

5026

Licensee: Dr. Harold Welch
Research Scientist
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: Epontic primary production, phytoplankton production, and subice amphipod production in the Barrow Strait area; work at the ice edges in Lancaster Sound, and summer chlorophyll distribution.

Location: Resolute Bay and environs.

5024

Licensee: Gary A. Sergy
Baffin Island Oil Spill Project
Environmental Protection Service
#804, 9942-108 Street
Edmonton, Alberta
T5K 2J5

Objective: A study of oil spill effects on shore and near shore environments (BIOS Project).

Location: Cape Hatt, Baffin Island.

Licence Number

5019

Licensee: Dr. Ian Stirling
Canadian Wildlife Service
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Objective: Use sub-ice recording to study distribution of overwintering populations of seals in relation to polynyas, sea ice conditions, patterns of freeze-up, distribution of ringed seal pupping areas, distribution of polar bears and proposed winter shipping lanes.

Location: Resolute Bay, Tuktoyaktuk, Sachs Harbour, Holman (working throughout High Arctic and Beaufort Sea).

5012

Licensee: Dr. James F. Basinger
Dept. of Geological Sciences
University of Saskatchewan
Saskatoon, Sask.
S7N 0W0

Objective: To take fossil plant collections for the understanding and interpretation of plant distribution and evolution in the early Tertiary of western and northern Canada.

Location: Fosheim Peninsula, Ellesmere Island, and on west central Axel Heiberg Island.

EARTH AND PHYSICAL SCIENCES (GEOLOGICAL)

Licence Number

- 5129 Licensee: Dr. J.P. Syvitski
 Geological Survey of Canada
 Bedford Institute of Oceanography
 Box 1006
 Dartmouth, Nova Scotia
 B2Y 4A2
- Objective: (1) To emplace current meter and trap
 arrays into 50m water depth via
 helicopter; (2) To site survey deltas
 to ascertain information on their
 hydrology and sedimentology processes
 and Quaternary history; (3) To site
 survey (re survey) coastal sections
 to understand their stability and
 geological history.
- Location: Clyde River - Pond Inlet coastal area.
-
- 5125 Licensee: Dr. Mary R. Dawson
 Carnegie Museum of Natural History
 4400 Forbes Ave.
 Pittsburgh, PA.
 15213 U.S.A.
- Objective: Paleontological collecting of vertebrates
 and plants ranging in age from Late
 Cretaceous to Middle Eocene; also to
 study the stratigraphic relationships
 of the fossil-bearing deposits and
 interpreting both the conditions that
 these rocks represent and the geologic
 relationships within the Eureka Sound
 Formation.
- Location: Houghton Astrobleme, Devon Island; in
 the Bay Fiord, Stenkul Fiord, Swinnerton
 Peninsula areas of central Ellesmere
 Island; on Fosheim Peninsula east of
 Eureka; at Strand Fiord on Axel Heiberg.

Licence Number

5126

Licensee: Brian MacLean
Atlantic Geoscience Centre
Geological Survey of Canada
Bedford Institute of Oceanography
Box 1006
Dartmouth, Nova Scotia
B2Y 4A2

Objective: Shipborne marine geological and geophysical investigations in the Baffin Island region from CSS HUDSON - single channel and high resolution seismic reflection, magnetic, sidescan, and echosounder profiles, sampling by seabed rock core drill piston coring, IKU and other grabs, camera.

Location: Davis Strait - Baffin Bay (Frobisher to Broughton Island) Padloping Area, Cumberland Sound, Hudson Strait.

5118

Licensee: Dr. Mikkel Schau
Geological Survey of Canada
Room 461
588 Booth Street
Ottawa, Ontario
K1A 0E8

Objective: Geological mapping

Location: North-western part of Melville Peninsula (Encampment Bay) NTS47C.

5117

Licensee: Professor Peter P. Hudec
Geology Department
University of Windsor
401 Sunset Avenue
Windsor, Ontario
N9B 3P4

Objective: To study construction aggregate resources and concrete durability.

Location: Frobisher Bay area.

Licence Number

5114	<u>Licensee:</u>	Hugh M. French Professor, Joint-Appointment Departments of Geography and Geology University of Ottawa 165 Waller Ottawa, Ontario K1N 6N5
	Objective:	To conduct permafrost and geomorphological studies.
	Location:	Mackenzie Delta Region: Tuktoyaktuk, Garry, Hooper. Eastern Melville Island and Ellef Ringnes Island.
5113	Objective:	Geomorphology and sedimentology of the holocene Slave River Delta.
	Location:	Fort Smith to Fort Resolution.
5112	<u>Licensee:</u>	Kirk Osodetz 337 Falshire Dr. N.E. Calgary, Alberta T3J 1T8
	Objective:	To determine the latitude of the Arctic Islands through geologic time using the paleomagnetic technique: describe, measure and sample (hand samples) Mesozoic volcanic rocks to determine their paleolatitude.
	Location:	Strand Fiord, Axel Heiberg Island and Audhild Bay and Phillips Inlet, Ellesmere Island.

Licence Number

5110

Licensee: Dr. Charlotte Jackson
University of Toronto
Earth and Planetary Science
Erindale Campus
Mississauga, Ontario
L5L 1C6

Objective: To sample igneous rocks for a paleo-magnetic investigation, and to study geological field-relations of the same rocks in order to determine their age and relation to the development of the surrounding geological provinces.

Location: Cornwall Island, Eastern Axel Heiberg Island and North-western Ellesmere Island.

5109

Licensee: Garry McLean
Coordinator, NLUIS Mapping Program
Lands Directorate
Environment Canada
20th Floor
Place Vincent Massey
351 St. Joseph Blvd.
Hull, P.Q.
K1A 0E7

Objective: A study to gather data for maps to provide an information base to facilitate comprehensive regional planning and application of the Territorial Land Use Regulations. Field program involves collection and verification of data on wildlife resources, fish resources, native land use, ecological land classification, coastal evaluation and a variety of socio-economic and cultural aspects.

Location: All of Baffin from the north side of Cumberland Peninsula to Buchan Gulf on the east side and the Hantzsch River to the Rowley River on the west side. Also the following islands: Rowley, Koch, Spicers, Bray, Prince Charles, Airforce, Jens Munk and Foley.

Licence Number

5107

Licensee: A.G. Lewkowicz, Ph.D.
Assistant Professor
Department of Geography
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Objective: To measure the energy exchange and rate
of headwall retreat of a number of
ground ice slumps.

Location: Mackenzie Delta

5105

Licensee: Declan De Paor
Prof. of Structural Geology
Department of Earth and
Planetary Sciences
The Johns Hopkins University
Baltimore, Maryland
U.S.A. 21218

Objective: Geological mapping in the area.

Location: Fosheim Peninsula area, Central
Ellesmere Island (Vesle Fiord and
Conon Fiord).

5104

Licensee: Dr. Karen St. Seymour
Department of Geology
Concordia University
7141 Sherbrooke St. W.
Montreal, Quebec
H3W 1R1

Objective: (a) by employing petrochemical methods
to delineate the chemostratigraphy of the
Point Lake greenstone belt in the Slave
structural Province and demonstrate its
relationship with the Yellowknife volcanics;
(b) chemically characterize and document
the stratigraphy and tectonic style of the
Redrock Lake volcanic belt.

Location: Point Lake and Redrock Lake.

Licence Number

5103

Licensee: Dr. Owen Beattie
Assistant Professor
Department of Anthropology
The University of Alberta
Edmonton, Alberta
T6G 2H4

Objective: To investigate the cause of the
last Franklin Expedition disaster.

Location: North-eastern section of Beechey
Island.

5095

Licensee: Daniel E. Kerr
Department of Geology
University of Ottawa
Ottawa, Ontario
K1N 6N5

Objective: To undertake a stratigraphic and
sedimentological study of Quaternary
deposits, looking at sections of
surficial deposits exposed along the
River(s) to help clarify the deglaciation
history of the area.

Location: Richardson and Rae Rivers.
Base - Coppermine.

5094

Licensee: David R. Sharpe
Terrain Sciences Division
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Objective: To map the Glacial sediments by identifying
surface landforms and describing the
sediments exposed within these landforms.

Location: 100-200 km north of Cambridge Bay.

Licence Number

5093 Licensee: Janis E. Dale
 Department of Geography
 Queen's University
 Kingston, Ontario
 K7L 3N6

 Objective: To conduct studies on marine sedimentation
 and marine biological communities.

 Location: Pangnirtung Fiord

5092 Licensee: A.C. Lenz
 The University of Western Ontario
 Department of Geology
 Faculty of Science
 Biological and Geological Building
 London, Ontario
 N6A 5B7

 Objective: To collect geological (rock) samples
 for analysis and study upon return to
 the University.

 Location: Central and Northern Cornwallis Island
 and Northwestern Melville Island.

5091 Licensee: Timothy de Freitas
 The University of Western Ontario
 Department of Geology
 Faculty of Science
 Biological and Geological Building
 London, Ontario
 N6A 5B7

 Objective: To collect geological (rock) samples for
 analysis and study upon return to the
 University.

 Location: Northeastern Cornwallis Island.

Licence Number

5089

Licensee: Stephen Gajewski
Landman
ARCO Exploration - Alaska Operations
Post Office Box 100360
Anchorage, Alaska
99510-0360

Objective: To conduct aerial reconnaissance of the target areas, touching down at various outcrops to map and collect rock samples to bring back for analysis.

Location: Mackenzie Bay area.

5083

Licensee: Michael J. Retelle
Department of Geology and Geography
University of Massachusetts
Amherst, Massachusetts

Objective: To study sedimentary processes in high arctic coastal lake basins.

Location: Maryin Peninsula on northern Ellesmere Island.

5080

Licensee: Dr. Allan Wolfe
Physics Dept, N812
New York City Technical College
300 Jay Street
Brooklyn, N.Y.
11201

Objective: To install a fluxgate magnetometer and 30MHz riometer to provide new information on hydromagnetic wave and particle precipitation phenomena occurring under varying interplanetary and geomagnetic conditions. This location is selected because it is in the "conjugate" area to the United States station at South Pole, Antarctica.

Location: Frobisher Bay.

Licence Number

5073

Licensee: Cynthia Lamson
Research Associate
Dalhousie Ocean Studies Programme
5th Floor, Central Services Building
1236 Henry Street
Halifax, Nova Scotia
B3H 3J5

Objective: To participate in a cooperative research project to examine ocean development and management issues in the Baffin Bay/Davis Strait region.

Location: Baffin Bay/Davis Strait region.

5072

Licensee: John D. Jacobs
Associate Professor
Department of Geography
University of Windsor
Windsor, Ontario
N9B 3P4

Objective: To continue research begun in 1978: to describe the sequence of post-glacial climate, vegetation, and environmental change.

Location: Base in Frobisher Bay, with surveys to be conducted in the surrounding area as well as at Nettilling Lake and in the vicinity of the settlements of Lake Harbour, Cape Dorset and Pangnirtung.

5070

Licensee: Glen M. MacDonald
Assistant Professor
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Objective: To collect surface samples from small lakes to reconstruct the response of plant populations in the treeline zone to climatic change.

Location: Yellowknife area.

Licence Number

5069

Licensee: John C. Anderson
Surface Water Division
National Hydrology Research Institute
Ottawa, Ontario
K1A 0E7

Objective: To conduct hydrologic studies.

Location: Fort Simpson, Inuvik.

5068

Licensee: Ron G. Perkin
Institute of Ocean Sciences
9860 West Saanich Road
P.O. Box 6000
Sidney, B.C.
V8L 4B2

Objective: To begin monitoring of the temperature and salinity of upper layers of the Arctic Ocean using a self recording package with conductivity and temperature sensors suspended under the ice.

Location: Barrow Strait, Penny Strait, Mould Bay, Banks Island and Polynia Island.

5067

Licensee: Robert Bonner Young
Department of Geography
University of Western Ontario
London, Ontario
N6A 5C2

Objective: To examine the processes of redistribution affecting particulate material within relatively freely-drained soil conditions and to relate the presence of diagnostic soil micro-fabrics to specific pedogenic and geomorphic processes.

Location: Truelove Lowlands, Devon Island.

Licence Number

5066	<u>Licensee:</u>	Peter Kelly Department of Geography University of Western Ontario London, Ontario N6A 5C2
	Objective:	To examine the physical, chemical, and mineralogical characteristics of the soils formed on the beaches as a function of environmental change.
	Location:	Truelove Lowlands, Devon Island.
5065	<u>Licensee:</u>	Doug B. Yurick Senior Planner, Marine Studies National Parks Systems Division Parks Canada Ottawa, Ontario K1A 1G2
	Objective:	To do work in the area of a possible national marine park.
	Location:	Eclipse Sound - Lancaster Sound.
5064	<u>Licensee:</u>	Peter Adams Professor of Geography Trent University Peterborough, Ontario K9J 7B8
	Objective:	To do work on Colour Lake and to study the mass balance of the White Clacier.
	Location:	Expedition Fiord area of Axel Heiberg Island.

Licence Number

5063

Licensee: Dr. Jean-Serge Vincent
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Objective: To map, describe and explain the unconsolidated deposits, landforms, permafrost, and organic cover, and undertake geomorphic process studies in order to provide aerial knowledge of geology and terrain that will (a) aid in the implementation of the Territorial Land Use Regulations; (b) be pertinent to engineering construction; (c) provide data relative to terrain sensitivity rating; and (d) elucidate the Quaternary history of the region.

Location: Coppermine, Cape Young Dew Line site, Paulatuk, Sachs Harbour, Tuktoyaktuk.

5059

Licensee: Bruce Parsons
Institute for Marine Dynamics
St. John's, Newfoundland
A1B 3T5

Objective: To obtain data on the fracture toughness of sea-ice, its indentation toughness, the cantilever beam strength, and the velocity of a crack propagating in ice.

Location: Resolute Bay.

Licence Number

5056

Licensee: Benjamin James Blackett-Ord
Expedition Leader
Baffin Island Expedition 1985
26 Tennyson Road
Portswood, Southampton
England SO2 1GW

Objective: A glaciological expedition.

Location: Pangnirtung, Cumberland Peninsula.

5052

Licensee: Dr. T.E. Keliher
Physics Department
Memorial University of Newfoundland
St. John's, Newfoundland
A1B 3X7

Objective: (a) Radio echo sounding of the glaciers and larger icebergs (Smith Bay to Cape Herschel); (b) Survey of present iceberg production rates; (c) Drift studies on icebergs using satellite locator buoys.

Location: Southeastern Ellesmere Island.

5050

Licensee: Denis A. St-Onge
Head, Regional Projects Section
Terrain Sciences Division
Energy, Mines and Resources Canada
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Objective: To collect small specimens, mostly of unconsolidated sediments, in order to determine their nature, origin and age.

Location: Tuktoyaktuk, Coppermine, Dew Line Site at Cape Young.

Licence Number

5049

Licensee: Cheryl McKenna-Neuman
Department of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Objective: To continue research on wind (aeolian)
processes and associated landforms in
Auyuittuq National Park.

Location: Pangnirtung.

5048

Licensee: Hermann A.R. Steltner
Director
Arctic Research Establishment
Pond Inlet, N.W.T.
XOA 0S0

Objective: To carry on with activities of baseline
studies on the environment and climatology
at various locations in the Territories.

Location: Various N.W.T. communities.

5047

Licensee: Alex Aitken
Department of Geology
McMaster University
Hamilton, Ontario
L8S 4M1

Objective: Collecting fossil clams from raised
marine deposits in the vicinity of
the villages to aid our understanding
of marine ecology at the end of the
Wisconsin Ice Age.

Location: Clyde River, Pangnirtung, Frobisher Bay.

Licence Number

5045 Licensee: Brian MacLean
 Atlantic Geoscience Centre
 Geological Survey of Canada
 Bedford Institute of Oceanography
 Box 1006
 Dartmouth, Nova Scotia
 B2Y 4A2

 Objective: Geological investigations of the seabed
 in marine areas of the Canadian Arctic
 Archipelago; to obtain grab samples,
 short core and seabed photography;
 approx. 60 stations over a grid pattern;
 experiment with through-the-ice seismic
 reflection data using small charges as
 sound source to obtain information on
 sediment thickness and shallow stratigraphy.

 Location: Byam Martin Channel - Lougheed Island area.

5044 Licensee: Dr. Darrel G.F. Long
 Associate Professor, Sedimentology
 Department of Geology
 Laurentian University
 Ramsey Lake Road
 Sudbury, Ontario
 P3E 2C6

 Objective: To examine the stratigraphic framework
 of the Kennedy Channel Formation, Ella
 Bay Formation and Ellesmere Group in
 three locations off Princess Marie Bay,
 SE Ellesmere Island.

 Location: Eureka, Scoresby Bay, Dobbin Bay, Copes
 Bay, Ellesmere Island.

5042 Licensee: W.M. Schwerdtner
 Professor
 Department of Geology
 University of Toronto
 Toronto, Ontario
 M5S 1A1

 Objective: Detailed geological mapping.

 Location: Hare Fiord region, N.W. Ellesmere Island.

Licence Number

5039

Licensee: Prof. Dr. Arno Semmel
Institut Fur Physische Geographie
Johann Wolfgang Goethe-Universitat
Fachbereich Geowissenschaften (17)
Senckenberganlage 36
D-6000 Frankfurt am Main 1
Germany

Objective: To obtain more information about periglacial process and environments in a formerly unglaciated area with regard to slope denudation and fluvial process. To show the differences between areas of continuous and discontinuous permafrost. To investigate along the Dempster Highway different valley-profiles by mapping the geomorphological features and to take soil samples.

Location: Richardson Mountains,

5038

Licensee: Ashton P. Embry
Project Leader
Geological Survey of Canada
3303 - 33rd St. N.W.
Calgary, Alberta
T2L 2A7

Objective: Stratigraphic studies - sections will be measured by two man parties on northern Ellesmere Island.

Location: Ellesmere Island.
Base camp at Eureka.

Licence Number

5037

Licensee: Larry Dyke
Department of Geological Sciences
Queen's University
Kingston, Ontario
K7L 3N6

Objective: To reoccupy sites established on Melville Island for the measurement of frost heaving of bedrock. These sites consist of arrays of survey markers which are periodically resurveyed using a theodolite and stadia rod.

Location: Two weeks will be spent in a tent camp on Sabine Peninsula, Melville Island and two weeks will be spent in a base camp on western Melville Island established by the Geological Survey of Canada.

5034

Licensee: David Topham
Institute of Ocean Sciences
P.O. Box 6000
9860 West Saanich Road
Sidney, B.C.
V8L 4B2

Objective: To install current meter arrays and acoustic equipment in the vicinity of an ice keel for a period of about three weeks to better understand the hydrodynamic drag of sea ice arising from ice keels.

Location: Barrow Strait area. PCSP at Resolute.

5033

Licensee: Martin O. Jeffries
Department of Geography
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta
T2N 1N4

Objective: To obtain ice cores from the sea ice and to examine the salinity and isotopic composition of the ice in addition to the ice temperature to determine ice strength, age of the ice and rate of growth.

Location: Northern Ellesmere Island - Ward Hunt Ice Shelf, Milne and Ayles Fiords.

Licence Number

5031

Licensee: Karl O. Stoeber
Hinterhauser, Ponyhof
D-7826 Schluchsee
W. Germany

Objective: To photograph and gather information
on muskeg, a widely unknown biotop.

Location: Fort Norman - Wrigley area.

5029

Licensee: Dr. O.A. Dixon
Professor, Department of Geology
Faculty of Science and Engineering
University of Ottawa
Ottawa, Ontario
K1N 6N5

Objective: To carry out a study of Lower Paleozoic
stratigraphy and geological history of
the Somerset-Cornwallis-Devon Islands
region. This would include geological
mapping, measurement of stratigraphic
sections, and collection of rock and
fossil samples for subsequent laboratory
study.

Location: Campsites at Cape Dungeness and Snowblind
Creek on Cornwallis Island and on Baillie
Hamilton Island, and Gascoyne Inlet,
Devon Island.

5027

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

Objective: To install current meters and tide
gauges beneath the sea surface to
measure and record flow and sea-level
for 12 months; pack ice motion and surface
wind will be measured by drifting instru-
ments for two months, to enable the
prediction of ice motion several days
in advance.

Location: Base at Tuktoyaktuk
Beaufort Sea North of Tuktoyaktuk.

Licence Number

5025 Licensee: Will Steger
 Steger International Polar Expedition
 1708 Savoy
 Ely, Minnesota
 55731

Objective: To collect data on the relationship
 of pack ice movements to polar weather
 systems; and to discover if the North
 Pole can be reached solely by the power
 of men and sled dogs.

Location: Mackenzie Valley
 Arctic Ocean North of Ellesmere to
 the Pole.

5023 Licensee: J.C. Ritchie
 University of Toronto
 Scarborough Campus
 1265 Military Trail
 Scarborough, Ontario
 M1C 1A4

Objective: April - to take 5 cm diameter cores of
 unconsolidated lake mud from 6 small
 lakes; July - to conduct a survey of
 the vegetation surrounding the lakes
 sampled in the above winter coring
 operation.

Location: Lakes in the Melville Hills Region,
 Horton River Region. Base at Tuktoyaktuk.

5022 Licensee: Dr. J.R. Mackay
 Department of Geography
 University of B.C.
 Vancouver, B.C.
 V6T 1W5

Objective: To do continuing research to understand
 the origin of permafrost, the ice within
 permafrost and the processes that help
 create the present geocryologic
 environment.

Location: Tuktoyaktuk and environs.

Licence Number

5021

Licensee: Dr. Elliot Burden
Department of Earth Sciences
Memorial University of Newfoundland
St. John's, Newfoundland
A1B 3X5

Objective: Mapping and systematic collection of strata for sedimentology, paleontology and palynology to determine deposition of environment.

Location: Frobisher Bay, Broughton Island, Qaqaluit Island, Padloping Island.

5020

Licensee: Professor W.H. Lehn
Department of Electrical Engineering
The University of Manitoba
Winnipeg, Manitoba
R3T 2N2

Objective: To further study meteorological optics by photographic recording of land forms and their refracted images over horizontal lines of sight; measurement of refraction and horizon shift by theodolite; local surveys of the photographed land forms and observation sites.

Location: Resolute Bay and environs.

5017

Licensee: Yvan Sauriol
Canadian Astronautics Limited
1050 Morrison Drive
Ottawa, Ontario
K2H 8K7

Objective: To conduct Phase II of Through-the-Ice-Sounding Study. Measurements will be made on rifle shots aimed vertically at the ice from a platform and firing shots at the ice from a helicopter to develop a non-contact through-the-ice sounding method.

Location: Intrepid Bay.

Licence Number

5016

Licensee: Dr. R. Frederking
Geotechnical Section
Division of Building Research
National Research Council of Canada
Ottawa, Canada
K1A 0R6

Objective: Measure general environmental factors, obtain temperature and salinity profile of the ice cover; ice features will be described and documented; measure ice movements by using arrays of reflectors and an electronic distance measuring device; measure ice pressures.

Location: Adams Island.

5015

Licensee: Dr. David G. Harry
Terrain Sciences Division
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario

Objective: A project directed toward the prediction and monitoring of geomorphic and geologic conditions along the route of the Norman Wells-Zama pipeline. Fieldwork will focus on investigation of terrain conditions during and subsequent to the 1984/85 winter construction season.

Location: Fort Simpson, Norman Wells.

5014

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

Objective: To study the glacial geomorphology and chronology of the NE coast of Frobisher Bay by measuring the elevation of raised marine deposits, collecting shells for radiocarbon dating, collecting samples of glacial deposits for grain-size and mineralogical identification, and the gathering of bathymetric data along some of the small fiords on the north coast.

Location: Outer north coast of Frobisher Bay.

Licence Number

5013	<u>Licensee:</u> Dr. D.K. Elliott Department of Geology Northern Arizona University Box 6030 Flagstaff, Arizona 86011
	<u>Objective:</u> Biostratigraphic sections will be taken through the Peel Sound and Somerset Island formations on Somerset Island to increase knowledge of the relationship between the arctic Paleozoic vertebrate faunas and those in western Europe. To collect material and paleo-ecological data to study the habitats of early vertebrates.
	<u>Location:</u> Prince of Wales Island and Somerset Island.
5004	<u>Licensee:</u> Sir Ranulph Fiennes P.U.N.S. Expedition 10 Belgrave Road Barnes London SW13 9NS England
	<u>Objective:</u> Recording ice stress on the ice shelf of Ward Hunt Island and supply of meteorological data.
	<u>Location:</u> Ward Hunt Island (Resolute)
5003	<u>Licensee:</u> Dr. A.L. Washburn Quaternary Research Centre University of Washington Seattle, Washington U.S.A. 98195
	<u>Objective:</u> To continue the research project in periglacial geomorphology and glacial geology.
	<u>Location:</u> Cornwallis Island.

Licence Number

5149

Licensee: David A. Sherstone
Inuvik Scientific Resource Centre
Indian and Northern Affairs Canada
P.O. Box 1430
Inuvik, N.W.T.
XOE OTO

Objective: Study of winter ice thickness in
the Mackenzie Delta.

Location: Inuvik.

5144

Licensee: Prof. Dr. W. Habrich
Bloemersheimstraße 49
4150 Krefeld
Germany

Objective: Research the work of the Renewable
Resources Dept., G.N.W.T., DINA,
department dealing with Economic
Development & Tourism, environmental
quality, the development of the N.W.T.,
spacial planning for the future, and
native land use,

Location: Yellowknife and Fort Rae.

5143

Licensee: Dr. Takasi Oguti,
Geophysics Research Lab,
University of Tokyo,
Tokyo 113, Japan

Objective: Record and photograph aurora (northern
lights), related natural electromagnetic
waves and geomagnetic pulsations.
Another research on Doppler shift of
HF waves (receiving only) may be added.

Location: Cambridge Bay, Resolute Bay, Frobisher Bay,
Inuvik, Norman Wells, Fort Simpson,
Baker Lake, Rankin Inlet.

Licence Number

5136

Licensee: Anthony Lambert
Energy, Mines and Resources Canada
Earth Sciences, Earth Physics Branch
Division of Gravity, Geothermics
and Geodynamics
1 Observatory Crescent
Ottawa, Ontario
K1A 0Y3

Objective: To measure crustal deformation in North America leading to a better understanding of earthquakes and plate tectonics. Measurements will be made by the technique of long-baseline interferometry using a mobile radio telescope.

Location: Yellowknife.

SOCIAL SCIENCES

5147

Licensee: Valerie Alia
28 Camberwell Road,
Toronto, Ontario
M6C 3E8

Objective: To conduct research on personal names, especially in the Inuit tradition.

Location: Pangnirtung.

5140

Licensee: Barbara Hail
Director and Curator
Haffenreffer Museum of Anthropology
Brown University, Mount Hope Grant,
Bristol, Rhode Island
U.S.A. 02809

Objective: To document the Colcleugh Collection of native crafts in preparation for a major catalogue of subarctic holdings.

Location: Ft. Simpson, Ft. Resolution, Rae-Edzo,
Ft. Smith, Ft. Providence and Yellowknife.

Licence Number

5139

Licensee: Dr. Bernard Saladin d'Anglure
Department of Anthropology
University of Laval
Quebec, P.Q.,
G1K 7P7

Objective: To continue research on Inuit social
history and culture.

Location: Igloolik, N.W.T.

5137

Licensee: Brad Wylynko
Canadian Arctic Resources Committee
46 Elgin Street, Room 11
Ottawa, Ontario
K1P 5K6

Objective: To conduct interviews to evaluate the
Environmental Studies Revolving Funds.

Location: Yellowknife.

5133

Licensee: Dr. R.W. Butler
Department of Geography
The University of Western Ontario
London, Ontario
N6A 5C2

Objective: To travel on foot along the Canol Road
and incorporate examinations and des-
criptions of local plant and wildlife
species, geomorphological and geological
phenomenon and historical data into
one report.

Location: Norman Wells to Canol Road (Yukon border).

Licence Number

5128

Licensee: Dr. Frances Abele
Research Associate
Arctic Institute of North America
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta
T2N 1N4

Objective: To carry out research on Transport Canada's Native Flight Service Station Operators Training Program, and to study factors that contribute to success or failure of that program.

Location: All Transport Canada/Western Region N.W.T. airport sites and communities of origin for Transport Canada Native trainees.

5111

Licensee: Professor Jack Cram
Program Director
Native and Northern Education Program
Faculty of Education
McGill University
3700 McTavish Street
Montreal, Quebec
H3A 1Y2

Objective: To do a subjective survey of students and graduates of the Eastern Arctic Teacher Education Program to discover their evaluation and recommendations of the program.

Location: Eastern Arctic Schools: Kitikmeot, Baffin, Keewatin.

5106

Licensee: Irene Mazurkewich
Assistant Professor
Dept. of English Language and Literature
Memorial University of Newfoundland
A1C 5S7

Objective: To focus study on the acquisition of a particular grammatical structure in English by Inuit Students.

Location: Pangnirtung.

Licence Number

5095	<p><u>Licensee:</u> Colleen Youngs Department of Geography McGill University 805 Sherbrooke St. West Montreal, Quebec H3A 2K6</p> <p>Objective: To conduct interviews to examine the changing socio-economic role of arts and crafts production and sale by Inuit women in response to the growing interest and market in relation to the resolution from the Inuit Women's Association (IWA).</p> <p>Location: Igloolik.</p>
5090	<p><u>Licensee:</u> Katrina Loeffler 250 Sandridge Road Ottawa, Ontario</p> <p>Objective: To investigate the impact of the industrialized cash economy of the Inuit elderly and their traditional position in society.</p> <p>Location: Cambridge Bay.</p>
5088	<p><u>Licensee:</u> Mrs. Wendy Dathan 97 Windward Crescent Pointe Claire, Quebec H9R 2H5</p> <p>Objective: 1. To assess the contribution of northern botanist A. Erling Persild to the reindeer pasture surveys and the phytogeography of the Continental Northwest. 2. To gather plant specimens for the University herbarium.</p> <p>Location: Mackenzie River Delta.</p>

Licence Number

5086

Licensee: Sandy Prentice
22 Nobert Road
Agincourt, Ontario
M1T 1C1

Objective: To develop, through field testing, a methodological approach to examine
a) resident's views of types of tourism,
b) resident's perceptions of their roles in tourism development and c) the perceived effects of such development.

Location: Fort Resolution, Snowdrift and Yellowknife.

5085

Licensee: Paula Thistle Conlon
1476 Farnsworth Ave.
Ottawa, Ontario
K1H 7C3

Objective: To record drum dance songs and conduct interviews.

Location: Arctic Bay.

5082

Licensee: Lynda Lange
Boreal Institute for Northern Studies
CW 401 Biological Sciences Building
The University of Alberta
Edmonton, Alberta
T6G 2E9

Objective: To interview Dene women of the upper Mackenzie Valley for research project entitled "The Impact of Government of Canada Administration and Social Programs, and of Economic Development, North of the 60th Parallel, on the status of Dene women and their work (Post WW II to the present)."

Location: Upper Mackenzie Valley region.

Licence Number

5081

Licensee: Lynda Lange
Boreal Institute for Northern Studies
CW 401 Biological Sciences Building
The University of Alberta
Edmonton, Alberta
T6G 2E9

Objective: To report on the research interests and priorities of NWT Native groups, on the basis of extensive consultation and discussion.

Location: Upper Mackenzie Valley region,
Inuvik, Fort Smith, Frobisher Bay.

5075

Licensee: Lynda Lange
Boreal Institute for Northern Studies
CW 401 Biological Sciences Building
The University of Alberta
Edmonton, Alberta
T6G 2E9

Objective: To carry out a follow-up study of the Norman Wells Oilfield Expansion and Pipeline Project in relation to actual employment goals and related employment of native women.

Location: Norman Wells, Fort Norman, Fort Franklin, Wrigley, and Fort Simpson.

5062

Licensee: Vladimir Randa
18 rue Gustave Courbet
F-92220 Bagneux
c/o Centre National de la Recherche Scientifique
Laboratoire des Langues et Civilisations
à Tradition Orale
LP 3-121 du C.N.R.S. 27
rue Paul-Bert
942000 IVRY FRANCE

Objective: To study the perception, knowledge and the representation of the animal world by Inuit people.

Location: Igloolik.

Licence Number

5061

Licensee: Nigel Tucker
2, Assiniboine Road
Apt. 922
Downsview, Ontario
M3J 1L1

Objective: To determine the attitudes of affected Northern interest groups regarding the Port Location issue and broader considerations of Ports Policy and Management for the Region.

Location: Inuvik, Aklavik, Fort McPherson, Arctic Red River and Tuktoyaktuk.

5057

Licensee: Dr. Robert Walker
Associate Professor, Education
Simon Fraser University
Burnaby, B.C.
V5A 1S6

Objective: To research into the development of national systems for aboriginal music by having people match sounds with symbols.

Location: Frobisher Bay.

5054

Licensee: Professor Iain Prattis
Carleton University
Department of Sociology and Anthropology
Room B750, Loeb Building
Ottawa, Ontario
K1S 5B6

Objective: Comparative analysis of bilingualism policy in Northern Canada (Inuktitut - English) and the Western Isles of Scotland (Gaelic - English).

Location: Frobisher Bay, Igloolik, Arctic Bay and Lake Harbour.

Licence Number

5046

Licensee: Monika Orzechowska
5157 Verdun Ave.
Verdun, P. Que.
H4G 1N7

Objective: To take the information gathered from extensive conversations with a few key Inuit women and design a means of mapping it in order to illustrate in spatial terms their employment experiences and perceived relationship and accessibility to the Canadian state and economic development programs.

Location: Yellowknife, Igloolik

5040

Licensee: J. Konarek, Ph.D.
Associate Professor
Department of Geography
Laurentian University
Ramsey Lake Road
Sudbury, Ontario
P3E 2C6

Objective: To observe the physical structures and services of the settlements and to inquire into the social and political structures.

Location: Lake Harbour, Frobisher Bay, Cape Dorset, Coral Harbour, Rankin Inlet, Chesterfield Inlet, Baker Lake, Whale Cove, Eskimo Point.

5036

Licensee: Louis-Jacques Dorais
Professor
Departement d'anthropologie
Universite Laval
Faculte Des Sciences Sociales
Cite Universitaire
Quebec, Canada
G1K 7P4

Objective: Through tests and questionnaires administered in the schools, to measure the degree of bilingualism of the 9 - 15 year old pupils.

Location: Lake Harbour and Igloolik

Licence Number

5030

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

Objective: To do interviews with community leaders and examination of documentary material to discover The Role of New Telecommunication Technologies for Self-Reliant Development of Northern Natives.

Location: Inuvik and surrounding communities.

5008

Licensee: Frances Abele
Director
Native Employment Training Study
The Arctic Institute of North America
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta
T2N 1N4

Objective: To carry out a native employment training study to study factors that contribute to the success and failure of training programs for native northerners from the perspective of trainees and communities.

Location: Yellowknife, Frabisher Bay, Fort Smith, Fort Simpson, Fort Norman, Norman Wells, Fort Good Hope, Fort Franklin, Inuvik, Tuktoyaktuk, Cambridge Bay, Baker Lake and areas.

5006

Licensee: Louise Poole
5128 Forrest Drive, North
Yellowknife, N.W.T.
X1A 2W4

Objective: To draft nutrition guidelines on nutritious foods and safe food management for the Day Care centres in the NWT.

Location: Cambridge Bay, Edzo, Inuvik, Norman Wells.

Licence Number

5005

Licensee: Dr. George Wenzel
Assistant Professor
Centre for Northern Studies and Research
McGill University
1020 Pine Avenue West
Montreal, Quebec
H3A 1A2

Objective: Anthropologically define the various dimensional contexts in which ringed seal hunting contributes to the functioning of Inuit society. Evaluate the effects the limiting or ideological grounding of the anti-sealing protest movement has done. Analysis of Inuit responses to this situation.

Location: Holman Island, Clyde River.

5002

Licensee: Rosemarie Schlosser
Department of Geography
McGill University
805 Sherbrooke Street West
Montreal, Quebec
H3A 2K6

Objective: To study the effects of recent culture change, especially technological innovations, on the annual cycle of economic activities in Inuit life.

Location: Repulse Bay.

HEALTH SERVICES

5099

Licensee: John D. O'Neil, Ph.D.
Assistant Professor and
National Health Scholar
The University of Manitoba
Faculty of Medicine
750 Bannatyne Avenue
Winnipeg, Manitoba
R3E 0W3

Objective: To conduct a study of medical interpreters and health communication in Inuit communities.

Location: Rankin Inlet, Eskimo Point.

Licence Number

5053

Licensee: Dr. J.D. Gillan
5022 - 57th Street
Yellowknife, N.W.T.
X1A 1Y6

Objective: To compile statistics on the incidence and periodicity of Uveitis in the Great Slave area of Canada.

Location: Yellowknife, Mackenzie area.

5148

Licensee: Dr. John O'Neil, Ph.D.
Principal Investigator
National Health Research Scholar
The University of Manitoba
Faculty of Medicine
61 Emily Street
Winnipeg, Canada
R3E 1Y9

Objective: To carry out a study to evaluate the impact of obstetrical evacuation on Inuit women and their families in the Keewatin.

Location: Rankin Inlet.

5146

Licensee: Dr. Richard G. Mathias,
Director, Residency Program in
Community Medicine
James Mather Building
5804 Fairview Crescent
Vancouver, B.C.
V6T 1W5

Objective: To study the effectiveness of two treatment protocols in controlling sexually transmitted diseases in communities in the NWT. The treatments are efficacious in individuals but it is not known which one will be better for overall community reduction in the numbers of cases of sexually transmitted disease.

Location: The project has been funded for two years and is being carried out with Medical Services Branch in 11 western communities.

Licence Number

5028

Licensee: Dr. John C. Godel
Chief, Department of Pediatrics
Charles Camshell General Hospital
12815 - 115 Avenue
Edmonton, Alberta
T5M 3A4

Objective: To do a Northern Infant Nutritional Study by looking into the vitamin, mineral, and nutritional status of northern women during pregnancy and during breast feeding and to relate these findings to the vitamin status of their infants at birth and during the first six weeks of life; also to give vitamin supplements to the infants in a controlled manner to re-evaluate their vitamin status at six weeks.

Location: Inuvik, Tuktoyaktuk, Paulatuk, Sachs Harbour, Aklavik, Fort McPherson, Fort Good Hope, Arctic Red River, Norman Wells, Fort Norman and Fort Franklin. (Infants delivered at Inuvik General Hospital).

5011

Licensee: Dr. Brian D. Postl
Northern Medical Unit
University of Manitoba
Faculty of Medicine
61 Emily Street
Winnipeg, Manitoba
R3E 1Y9

Objective: To study epidemiology and therapy of Group A Streptococcal disease in northern native communities.

Location: Rankin Inlet.

Licence Number

5010

Licensee: Dr. Jamie C. MacDougall
Department of Psychology
McGill University
1205 Docteur Penfield Avenue
Montreal, Quebec
H3A 1B1

Objective: To compile a list of all agencies, institutions, and individuals who provide medical, educational or rehabilitation services to hearing impaired children in Canada; to profile the relevant characteristics of all hearing impaired Canadian children from birth to 21 years of age.

Location: Various settlements in the N.W.T.

5009

Licensee: Susan Beaubier
26 Rycon Drive
Yellowknife, N.W.T.
X1A 2V6

Objective: To work toward the development of nutrition guidelines specific to the N.W.T.

Location: Yellowknife, Frobisher Bay.

5007

Licensee: Jane Duffett
Box 780
Yellowknife, N.W.T.
X1A 2N6

Objective: Development of Prenatal Nutrition Education materials for use throughout NWT communities.

Location: Various NWT communities.

Licence Number

5001

Licensee: Dr. Eموke J.E. Szathmary
Department of Anthropology
McMaster University
1280 Main Street W.
Hamilton, Ontario
L8S 4L9

Objective: To study the nutritional, fitness and genetic aspects of impaired glucose tolerance and non-insulin dependent diabetes mellitus in Dogrib Indians.

Location: Rae Lakes, Snare Lake, Rae and Lac La Martre.

ENGINEERING

5035

Licensee: Richard S. Butler
Group Leader, Arctic Propagation
Communications Research Centre
Department of Communications
3701 Carling Avenue
P.O. Box 11490, Station "H"
Ottawa, Ontario
K2H 8S2

Objective: To install at 19 different sites a light metal tower 4 to 6 m high to measure the received levels of radio signals transmitted in the VHF and UHF bands over a number of paths.

Location: Various.

5119

Licensee: Dr. Pierre-Claude Aitcin
Department de genie civil
Faculte des sciences appliquees
Universite de Sherbrooke
Sherbrooke, Quebec J1K 2R1

Objective: To continue experiments on concrete durability in the North.

Location: Nanisivik and Arctic Bay.

PALAEONTOLOGY

Licence Number

5122

Licensee: Paul A. Johnston
Curator of Invertebrate Palaeontology
Tyrell Museum of Palaeontology
P.O. Box 7500
Drumheller, Alberta
T0J 0Y0

Objective: To collect fossil invertebrates and
vertebrates from rock outcrops on or
adjacent to the Highway.

Location: From Highway 1 from the 60th parallel
to Enterprise, Highway 2 from Enterprise
to Hay River, Highways 5 & 6 from
Hay River to Fort Resolution, Highway 1
from Enterprise to Highway 7, Fort Simpson
to the 60th parallel.

5051

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

Objective: To explore for fossil vertebrate remains.

Location: Polar Continental Shelf Project at
Resolute; then on to the northwest
regions of Cameron and Melville Island.

ARCHAEOLOGICAL LICENCES

ARCHAEOLOGICAL LICENCES

Licence Number

85-568	<p><u>Licensee:</u> Jean-Francois Le Mouel Musee de L'Homme Musee de L'Homme, France</p> <p><u>Objective:</u> To conduct archaeological reconnaissance along the north shore of Prince Albert Sound, and to excavate the Co-op site (OdPp-2), Victoria Island.</p>
85-569	<p><u>Licensee:</u> Douglas Stenton Department of Anthropology University of Alberta Edmonton, Alberta</p> <p><u>Objective:</u> To conduct archaeological reconnaissance and excavations at Nettilling Lake and Peterhead Inlet, Baffin Island.</p>
85-570	<p><u>Licensee:</u> Robert Park Department of Anthropology, University of Alberta Edmonton, Alberta</p> <p><u>Objective:</u> To conduct archaeological investigations at sites RbJr-1 and RbJr-4 and RbJr-5 at Porden Point on Devon Island.</p>
85-571	<p><u>Licensee:</u> Rochelle Allison Department of Anthropology University of Alberta Edmonton, Alberta</p> <p><u>Objective:</u> To conduct archaeological investigations at RbJr-12 at Porden Point on Devon Island.</p>

Licence Number

- 85-572 Licensee: Father Guy Mary-Rousseliere
 Roman Catholic Mission
 Pond Inlet, N.W.T.
- Objective: To conduct archaeological investigations
 at the Nunguvik and Arnakadlak sites,
 north Baffin Island.
- 85-573 Licensee: Bryan C. Gordon
 National Museum of Man
 Archaeological Survey of Canada
 Ottawa, Ontario
- Objective: To conduct archaeological investigations
 on the Burnside River downstream from
 Kathawachaga Lake.
- 85-574 Licensee: David Morrison
 National Museum of Man
 Archaeological Survey of Canada
 Ottawa, Ontario
- Objective: To conduct archaeological investigations
 at sites NgTi-1 and NiTi-1 in the Eskimo
 Lakes/Liverpool Bay area, and archaeological
 reconnaissance at McKinley Bay.
- 85-575 Licensee: Charles D. Arnold
 Prince of Wales Northern Heritage Centre
 Government of the Northwest Territories
 Yellowknife, N.W.T.
- Objective: To conduct archaeological reconnaissance
 in the vicinity of Cape Parry, and to
 undertake site conservation as required.

Licence Number

- 85-576 Licensee: Charles D. Arnold
Prince of Wales Northern Heritage Centre
Government of the Northwest Territories
Yellowknife, N.W.T.
- Objective: To conduct archaeological investigations
at the following locations: Saunatuk
(NgTn-1) and Narrows (NhTn-1) on Eskimo
Lakes, and Gopuk (NiTs-1) and NhTs-4 on
Richards Island.
- 85-577 Licensee: Eric Damkjar
Department of Anthropology
University of Alberta
Edmonton, Alberta
- Objective: To conduct archaeological investigations
at Creswell Bay.
- 85-578 Licensee: Margaret Bertulli
Northern Heritage Society
Yellowknife, N.W.T.
- Objective: To conduct archaeological investigations
at site QkHn-12 at Truelove Lowland,
Devon Island.
- 85-579 Licensee: Christopher Hanks
Prince of Wales Northern Heritage Centre
Government of the Northwest Territories
Yellowknife, N.W.T.
- Objective: To conduct archaeological investigations
at Drum (Wrigley) Lake.

Licence Number

85-580

Licensee: Christopher Hanks
Prince of Wales Northern Heritage Centre
Government of the Northwest Territories
Yellowknife, N.W.T.

Objective: To conduct archaeological investigations
at the Upper Ramparts.

85-581

Licensee: James Helmer
Department of Archaeology
University of Calgary
Calgary, Alberta

Objective: To conduct archaeological investigations
in the area between Cape Hardy and Truelove
Inlet, Devon Island, except at site OkHn-12.

85-582

Licensee: Gayle Sams
Department of Anthropology
University of Toronto
Toronto, Ontario

Objective: To conduct archaeological investigations
at Roche Bay.

85-583

Licensee: Marc G. Stevenson
#3 - 5605 - 50th Avenue
Yellowknife, N.W.T.

Objective: To conduct such archaeological work at
Kekerten as required for historic site
development.

85-584

Licensee: Raymond LeBlanc
Archaeological Survey of Canada
Ottawa, Ontario

Objective: To undertake archaeological reconnaissance
in the Mackenzie Valley and Delta as per
the requirements of the Northern Oil and
Gas Action Plan archaeological program.

Licence Number

85-585

Licensee: Jean-Luc Pilon
Archaeological Survey of Canada
Ottawa, Ontario

Objective: To undertake archaeological reconnaissance
in the Mackenzie Valley and Delta as per the
requirements of the Northern Oil and Gas
Action Plan archaeology program.

85-586

Licensee: Patricia Sutherland
Archaeological Survey of Canada
Ottawa, Ontario

Objective: To conduct archaeological reconnaissance
along the south coast of Devon Island,
as part of the Northern Oil and Gas
Action Plan.

85-587

Licensee: Dr. David Pokotylo
Department of Anthropology
University of British Columbia

Objective: To conduct archaeological investigations
in the vicinity of the Willow Lake Hotsprings.

85-588

Licensee: Dr. Ellen Bielawski
Prince of Wales Northern Heritage Centre
Government of the Northwest Territories
Yellowknife, N.W.T.

Objective: To conduct archaeological investigations
at Tsu Lake.

WILDLIFE LICENCES

WILDLIFE LICENCES

Permit Number

850220

Licensee: D.M. Wishart
Interprovincial Pipeline (NW) Ltd.
P.O. Box 398
Edmonton, Alberta
T5J 2J9

Objective: To conduct track counts, browse availability
and utilization for all furbearers and
ungulates along pipeline.

Location: Norman Wells pipeline alignment.

850221

Licensee: Steve Matthews
Department of Renewable Resources
P.O. Box 240
Fort Simpson, N.W.T.
XOE ONO

Objective: To conduct ground surveys to determine
ungulate and furbearer movements and
distribution along sections of pipeline.

Location: Norman Wells Pipeline.

850222

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.

Objective: Continuation of 0216 to immobilize and
ear-tag up to 20 muskoxen by ATC and
snowmachine.

Location: Cambridge Bay area.

850223

Licensee: Dr. J.A. Bradley
Animal Diseases Research Institute
P.O. Box 640
Lethbridge, Alta. T1J 3Z4

Objective: To monitor the incidence of rabies in the
high Arctic by collecting arctic fox samples
from hunter kills.

Location: High arctic.

Permit Number

850224

Licensee: Don Thomas
Canadian Wildlife Service
#1000, 9942 - 108 st.
Edmonton, Alberta
T5K 2J5

Objective: To conduct studies of the Beverly caribou winter range and the condition of the caribou by collecting samples.

Location: Beverly Caribou winter range.

850225

Licensee: Dr. Donald Pattie
N.A.I.T.
11762-106 st.
Edmonton, Alberta
T5G 2R1

Objective: To monitor arctic bird populations.

Location: Truelove Lowland, Devon Island.

850226

Licensee: Don Thomas
Canadian Wildlife Service
#1000, 9942-108 st.
Edmonton, Alberta
T5K 2J5

Objective: To collect up to 150 caribou on the Beverly Caribou winter range omitted from 0224.

Location: Beverly Caribou range.

850227

Licensee: Doug Heard
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct management related studies including visual and photographic surveys, radio-collaring and monitoring.

Location: Kaminurjak and Wager caribou range, Keewatin district.

Permit Number

850228

Licensee: Doug Heard
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct management related studies on Beverly caribou including ground class counts, aerial reconnaissance surveys, sample collect.

Location: Beverly caribou herd range, Keewatin and Mackenzie districts.

850229

Licensee: Doug Heard
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct management related studies on the Bathurst caribou herd including ground class counts, aerial surveys, collect specimens.

Location: Bathurst Caribou herd range.

850230

Licensee: James Voelzer
U.S. Fish & Wildlife
700 Cherry St., Suite D
Columbia, Montana
65201

Objective: To conduct an aerial survey of breeding populations of migratory birds to determine size, species composition and distribution.

Location: Mackenzie River drainage.

850231

Licensee: Richard Popko
Department of Renewable Resources
Government of the N.W.T.
Pond Inlet, N.W.T.
XOA OSQ

Objective: To run an experimental trapline using the conibear 220, 120, novak foot snare and padded leg traps to collect up to 20 Arctic fox pelts.

Location: Pond Inlet area.

Permit Number

850232

Licensee: Frank Miller
Canadian Wildlife Service
#1000, 9942 - 108 St.
Edmonton, Alberta
T5K 2J5

Objective: To study numbers and distribution of Peary caribou and muskoxen in the high Arctic.

Location: Bathurst, Cameron, Massey, Vanier and Loughheed islands, Isle Marc.

850233

Licensee: Frank Miller
Canadian Wildlife Service
#1000, 9942 - 108 St.
Edmonton, Alberta
T5K 2J5

Objective: To determine seasonal movements and distribution of Peary caribou and the existence of an inter-island population.

Location: Western Victoria Island, Prince of Wales Strait, eastern Banks Island.

850234

Licensee: Andrew Pharazyn
University of Guelph
Department of Nutrition
Guelph, Ontario
N1G 2W1

Objective: To collect up to 50 collared lemmings to return to the Guelph laboratory for energy metabolism studies.

Location: Igloolik area.

850235

Licensee: Richard Snell
Department of Zoology
University of Toronto
Toronto, Ontario
M5S 1A1

Objective: To collect a number of gull and plover species for genetic and physical relatedness studies; to colour band and mark birds.

Location: Home Bay area of north Baffin Island.

Permit Number

850236

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.
XOE OCO

Objective: To study muskox calf survival, timing of calf production, and seasonal group composition by ground survey.

Location: Southeast Victoria Island.

850237

Licensee: Gordon Stenhouse
Department of Renewable Resources
Government of the N.W.T.
Rankin Inlet, N.W.T.
XOC OGO

Objective: To continue the Foxe Basin Polar Bear Research program by capture, tag and marking of polar bears, surveys of maternity denning areas.

Location: Fox Basin area.

850238

Licensee: Ross Eccles
LGL Limited
Suncor Tower
500 4th Ave., S.W., Ste. 1860
Calgary, Alberta
T2P 2Y6

Objective: To conduct aerial surveys and track counts of mammal resources, habitat measurements.

Location: Slave River Hydro development area.

850239

Licensee: Norm Barichello
Department of Renewable Resources
Government of the Yukon
Box 2703
Whitehorse, Yukon
U1A 2C6

Objective: To study population characteristics and season range use of Dall's sheep in cooperation with GNWT.

Location: North Richardson Mountains.

Permit Number

850240

Licensee: Kent Jingfors
Department of Renewable Resources
Government of the N.W.T.
Inuvik, N.W.T.
XOE OT0

Objective: To conduct a study of population dynamics of muskox and Peary caribou including aerial surveys, ground class counts, radiocollaring.

Location: Banks Island.

850241

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.
XOE OCO

Objective: To survey by snowmachine for Polar bears, dens and tracks and to collect biological specimens from hunter-killed bears.

Location: Royal Geographic Islands.

850242

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.
XOE OCO

Objective: To conduct aerial surveys for caribou and muskoxen.

Location: Boothia Peninsula, south to Murchison Lake and King William Island.

850243

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.
XOE OCO

Objective: To survey by snowmachine for polar bears, dens and tracks and to collect biological specimens from hunter-killed bears.

Location: Northeast King William Island.

Permit Number

850244

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.
XOE OCO

Objective: To survey by snowmachine for grizzly bears,
dens and tracks and to collect biological
specimens.

Location: Bay Chimo and Coppermine areas.

850245

Licensee: Ray Schweinsburg
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.
X1A 2L9

Objective: To immobilize polar bears for ear-tagging,
lip-tattooing and radio-collaring of up to
20 bears to determine movements and distrib.

Location: Northeast coast of Baffin Island.

850246

Licensee: Steven Amstrup
U.S. Fish and Wildlife Service
Alaska Fish and Wildlife Office of Research
1011 E. Tudor Rd.
Anchorage, Alaska
99503

Objective: To conduct population studies of polar
bears in the Beaufort Sea including ear-tagging,
radio-collaring and monitoring populations.

Location: Beaufort Sea.

850248

Licensee: Karl Larson
Department of Biology
University of Victoria
P.O. Box 1700
Victoria, B.C. V8W 2Y2

Objective: To study the life history of the red-sided
garter snake.

Location: Wood Buffalo National Park.

Permit Number

850249

Licensee: Bob Bromley
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.
X1A 2L9

Objective: To collect a number of bird specimens
and peregrine falcon eggs for the analysis
of pesticides and other contaminants.

Location: Fort Norman, Norman Wells.

850250

Licensee: E. Kuyt
Canadian Wildlife Service
#1000, 9942 - 108 St.
Edmonton, Alberta
T5K 2J5

Objective: To trap and band American kestrels to determine
migratory patterns winter range, and
reproductive success.

Location: Fort Smith area and along Hwy 5 west to Wood
Buffalo Park.

850826

Licensee: Peter Clarkson
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.
X1A 2L9

Objective: To conduct an aerial survey for grizzly bears,
tag and radio-collar grizzly bears to
investigate bear habitat use and population
status,

850827

Licensee: Dr. Frank Mallory
Laurentian University
Department of Biology
Sudbury, Ontario
P3E 2C6

Objective: To investigate the biology of arctic foxes
and small mammals to determine seasonal
productivity.

Location: Eskimo Point.

Permit Number

850828	<u>Licensee:</u>	Bob Bromley Department of Renewable Resources Government of the Northwest Territories Yellowknife, N.W.T.
	Objective:	To observe feeding behavior and occupancy of nests of gyrfalcons, determine prey abundance, and band and colour mark young.
	Location:	Hope Bay area.
850829	<u>Licensee:</u>	Dr. Tom Nudds Department of Zoology University of Guelph Guelph, Ontario N1G 2W1
	Objective:	To observe habitat use and foraging behavior of all dabbling and diving waterfowl; to observe changes in production and brood survival.
	Location:	Yellowknife highway (mile 10 - 40).
850830	<u>Licensee:</u>	Bob Bromley Department of Renewable Resources Government of the N.W.T. Yellowknife, N.W.T. X1A 2L9
	Objective:	To survey for numbers and productivity of gyrfalcons, peregrine falcon and ravens, to band gyrfalcons and collect feather samples.
	Location:	Baffin region.
850831	<u>Licensee:</u>	Bob Bromley Department of Renewable Resources Government of the Northwest Territories Yellowknife, N.W.T. X1A 2L9
	Objective:	To determine nesting densities of gyrfalcons, peregrine falcons, golden eagles, and ravens; to band gyrfalcons, study food habits.
	Location:	Kitikmeot region.

Permit Number

850832

Licensee: P.N. Boothroyd
Canadian Wildlife Service
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: To determine waterfowl use of the Mackenzie River.

Location: Mackenzie River from the Keele River to the Tieda River.

850833

Licensee: Carol Van Wagner
Royal Ontario Museum
100 Queens Park
Toronto, Ontario

Objective: To collect Canada geese and snow geese for tissue analysis.

Location: Rankin Inlet and Cambridge Bay areas.

850834

Licensee: Kevin McCormick
Canadian Wildlife Service
P.O. Box 637
Yellowknife, N.W.T.
X1A 2N5

Objective: To document migrating passerine bird species to determine their relative abundance, phenology, and migratory patterns.

Location: Yellowknife area.

850835

Licensee: Robert Montgomerie
Department of Biology
Queen's University
Kingston, Ontario
K7L 3N6

Objective: To study foraging, use of space and breeding behavior in high arctic birds around Sarcpa Lake, Melville Peninsula.

Location: Sarcpa Lake, Melville Peninsula.

Permit Number

850836

Licensee: Loney Dickson
Canadian Wildlife Service
#1000, 9942-108 St.
Edmonton, Alberta
T5K 2J5

Objective: To survey the Taglu area of Richards Island for shorebirds. The study will include banding of adult shorebirds in the area.

Location: Richards Island.

850837

Licensee: Pace Eldon
Lands & Forests
P.O. Box 299
Shubenacadie, Nova Scotia
BON 2H0

Objective: To collect up to 10 brant eggs or young brant geese or a combination of both; to collect up to 10 king eider eggs.

Location: Prince Patrick and/or Melville Island.

850838

Licensee: Paul Dye
Northwest Waterfowl Game Farm & Wildlife
Sanctuary
Rt. 1, Box 669
Everett, Washington
U.S.A. 98205

Objective: To collect brant, oldsquaw, king eider, and ptarmigan to use for breeding and research purposes.

Location: Melville and Prince Patrick Islands.

850839

Licensee: Walter Sturgeon
Lee Ridge Aviaries
RFD #1 James Farm - Lee
Durham, New Hampshire
U.S.A. 03824

Objective: To collect brant, king eider, and oldsquaw for education and research purposes.

Location: Melville and Prince Patrick Islands.

Permit Number

850840

Licensee: Lynne Dickson
Canadian Wildlife Service
1000, 9942-108 St.
Edmonton, Alberta
T5K 2J5

Objective: To conduct aerial surveys for seaducks and waterfowl, ground searches for nesting red-throated loons, collect eggs for toxic analysis.

Location: Along coastline of Tuk Peninsula and Mackenzie Delta, McKinley Bay and Hitchison Bay.

850841

Licensee: Dr. A.J. Gaston
Canadian Wildlife Service
Ottawa, Ontario
K1A 0E7

Objective: To survey and census seabird colonies; to band young thick-billed murres, collect specimens of murres, Kumlien's gulls, dovekeys, fulmars.

Location: Reid Bay on Baffin Island.

850842

Licensee: Mark Bradley
Department of Renewable Resources
Government of the N.W.T.
Rankin Inlet, N.W.T.

Objective: To continue the peregrine falcon study; trapping and banding; collecting blood samples and body measurements.

Location: Rankin Inlet area.

850843

Licensee: Dr. T. Barry
Canadian Wildlife Service
1000, 9942-108 St.
Edmonton, Alberta

Objective: To conduct aerial surveys to determine habitat condition and productivity of arctic geese; to salvage birds or eggs found dead.

Location: Mackenzie Delta, Anderson River and Beaufort Sea coast.

Permit Number

850844	<p><u>Licensee:</u> Cormack Gates Department of Renewable Resources Government of the N.W.T. Fort Smith, N.W.T. XOE OPO</p> <p>Objective: Habitat and productivity studies of wood bison including aerial survey grd. observations, radio-collaring of bison, and collecting samples.</p> <p>Location: In and near the Mackenzie Bison Sanctuary.</p>
850845	<p><u>Licensee:</u> Graham Forbes Department of Biogeography York University Downsview, Ontario M3J 1P3</p> <p>Objective: To capture, band and release prey species of snowy owl; to observe snowy owl predatory behavior; to collect owl pellets for examination.</p> <p>Location: Sarcpa Lake area.</p>
850846	<p><u>Licensee:</u> Donna Waters Department of Biology York University 4700 Keele St. Downsview, Ontario M3J 1P3</p> <p>Objective: To observe movements, daily activity, and diet selection of barren-ground caribou by helicopter and on ground.</p> <p>Location: Sarcpa Lake area.</p>
850847	<p><u>Licensee:</u> R. Kerbes Canadian Wildlife Service 115 - Perimeter Rd. Saskatoon, Sask. S7N 0X4</p> <p>Objective: To conduct aerial photographic surveys of lesser snow goose colonies.</p> <p>Location: McConnell River, Tha-anne River, Goose Lake and Wolf Creek.</p>

Permit Number

850848

Licensee: Bob Bromley
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To survey by helicopter for raptors to
determine occupancy and productivity of
nest sites; to band anatum peregrine falcons.

Location: Lower Mackenzie Valley.

850849

Licensee: Peter Clarkson
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To capture, tag and radio-collar black
bears; to conduct detection and deterrent
tests on black and grizzly bears visiting
dump.

Location: Norman Wells area.

850850

Licensee: Bryan C. Gordon
Archaeological Survey of Canada
Ottawa, Ontario
K1A 0M8

Objective: To film and observe migrating caribou.

Location: Burnside River area.

850851

Licensee: Austin Reed
Canadian Wildlife Service
1141, Route de l'Eglise
Box 10100
Sainte-Foy, Quebec G1V 4H5

Objective: To collect eider duck tissue samples and
specimens from native harvest.

Location: Belcher Islands,

Permit Number

850852	<p><u>Licensee:</u> Richard Elliot Canadian Wildlife Service Building 303, Pleasantville Box 9158, Station B St. John's, Newfoundland A1A 2X9</p> <p>Objective: To band up to 3000 chicks and 300 adult thick-billed murrelets, to collect 40 adults for analysis, observe colonies for behavior.</p> <p>Location: Digges and Coats islands.</p>
850853	<p><u>Licensee:</u> Dr. Frank Mallory Laurentian University Department of Biology Sudbury, Ontario P3E 2C6</p> <p>Objective: To live trap six young arctic fox to ship south for research and filming purposes.</p> <p>Location: Eskimo Point area.</p>
850854	<p><u>Licensee:</u> Vernon Thomas Department of Zoology University of Guelph Guelph, Ontario N1G 2W1</p> <p>Objective: To band ivory gulls, to determine the importance of glaciers to wildlife in Jones Sound.</p> <p>Location: Resolute Bay, Grise Fiord, Devon Island-Jones Sound.</p>
850855	<p><u>Licensee:</u> Allan Shoults Calgary Zoological Gardens Box 3036, Station B Calgary, Alberta T2M 4R8</p> <p>Objective: To collect up to 16 Pacific brant and up to 8 white-fronted geese in the form of pipped eggs or goslings.</p> <p>Location: Anderson River Delta area.</p>

Permit Number

850856

Licensee: Kevin McCormick
Canadian Wildlife Service
Box 637
Yellowknife, N.W.T.
X1A 2N5

Objective: To determine abundance and distribution of
lesser snow geese by helicopter survey.

Location: Jenny Lind Island.

850857

Licensee: Peter Boothroyd
Canadian Wildlife Service
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Objective: To survey for waterfowl along the potential
pipeline routes to determine waterfowl use
of this area.

Location: Potential pipeline routes from Travaillant
Lake area to Richards Island (delta).

850858

Licensee: Steve Matthews
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To survey the pipeline route from Ft.
Simpson to Norman Wells to Ft. Good Hope
for raptors.

Location: Norman Wells Pipeline route.

850859

Licensee: Ursula Peterson
University of Wisconsin
436 Birge Hall
Madison, Wisconsin
U.S.A. 53706

Objective: To release snowy owls that have been captive
into the wild and observe their behavior.

Location: Igloolik area.

Permit Number

850860 Licensee: James Goldsberry
 U.S. Fish & Wildlife Service
 Office of Migratory Bird Management
 Laurel, Maryland
 U.S.A. 20708

 Objective: To capture and band ducks in the Mills
 Lake area in order to measure duck breeding
 populations.

 Location: Mills Lake.

850861 Licensee: Anne Gunn
 Department of Renewable Resources
 Government of the N.W.T.
 Cambridge Bay, N.W.T.

 Objective: To collect up to 20 lemming specimens
 for the National Museum of Canada.

 Location: Cambridge Bay area.

850862 Licensee: Dr. Tom Smith
 Thebacha College
 Box 600
 Fort Smith, N.W.T.
 XOE OPO

 Objective: To conduct a field course on seabirds,
 fish and marine mammals; to survey for
 local distributions of seabirds; to collect
 specimens.

 Location: Holman Island area.

850863 Licensee: Alex Dzubin
 Canadian Wildlife Service
 115 Perimeter Road
 Saskatoon, Saskatchewan
 S7N 0X4

 Objective: To monitor breeding ecology of northern
 eider, northern fulmar; to study food habits
 of seabirds and determine parasite loads
 in feces.

 Location: Flager Bay, Alexandra Fiord, Ellesmere Island
 and Cape Liddon, Devon Island.

Permit Number

850868

Licensee: Robert Decker
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct aerial surveys of wildlife and wildlife habitat to provide baseline information for the Northern Land Use Information Series maps.

Location: Central Baffin region.

850869

Licensee: BBC Natural History Unit
Whiteladies Road
Bristol, England
BS8 2LR

Objective: To film gyrfalcons at nest sites to show daily behavior and parent with chicks for the BBC Television series "Birds for all Seasons".

Location: Pangnirtung area.

850870

Licensee: Robert Patterson
University of Kansas
Lawrence, Kansas
U.S.A. 66045

Objective: To collect a number of small mammals for research and for the Museum of Natural History.

Location: Yukon/N.W.T. border to the Inuvik area.

850871

Licensee: Austin Reed
Canadian Wildlife Service
1141, Route de l'Eglise
Box 10100
Sainte-Foy, Quebec G1V 4H5

Objective: To census arctic geese; to capture and band flightless geese and to collect common eiders for taxonomic study.

Location: Bathurst Island, N.Baffin Island, and Dewey Soper Bird Sancturay Shores of Foxe Bafin.

Permit Number

850864	<p><u>Licensee:</u> Peter Strahlendorf Consulting and Research Box 625, Station Q Toronto, Ontario M4T 2N4</p> <p>Objective: To conduct ecological field exercises for northern students including observation and population census, capture/recapture of lemmings, etc.</p> <p>Location: Truelove Lowland, Devon Island.</p>
850865	<p><u>Licensee:</u> Stephen Toole Ontario Ministry of Natural Resources Box 190 Moosonee, Ontario POL 1Y0</p> <p>Objective: To band up to 3000 Canada geese in order to estimate mortality rates.</p> <p>Location: Akimiski Island.</p>
850866	<p><u>Licensee:</u> Kevin McCormick Canadian Wildlife Service Box 637 Yellowknife, N.W.T. X1A 2N5</p> <p>Objective: To conduct aerial surveys to determine the location of potential trumpeter swan habitat and the distribution and abundance of swans.</p> <p>Location: Southern Mackenzie district.</p>
850867	<p><u>Licensee:</u> Kevin McCormick Canadian Wildlife Service Box 637 Yellowknife, N.W.T. X1A 2N5</p> <p>Objective: To survey the rivers for Canada geese, white-fronted geese and other migratory birds; to evaluate Key Habitat Sites in the area.</p> <p>Location: Back and Ellice rivers.</p>

Permit Number

850872

Licensee: Michael Ferguson
Department of Renewable Resources
Government of the N.W.T.
Frobisher Bay, N.W.T.
XOA OH0

Objective: To tag up to 1700 caribou; to collect age and sex data of tagged caribou and specimens from up to 30 hunter-killed caribou.

Location: Southern Camsell Bay area.

850873

Licensee: Michael Ferguson
Department of Renewable Resources
Government of the N.W.T.
Frobisher Bay, N.W.T.
XOA OH0

Objective: To conduct systematic aerial survey for caribou.

Location: South Baffin Island.

850874

Licensee: Susan Fleck
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.
X1A 2L9

Objective: To describe the vegetation, document grizzly bear signs, describe food habits of grizzly bears and muskox in the area.

Location: Coppermine area.

850875

Licensee: Dr. David Gray
National Museum of Canada
Ottawa, Ontario
K1A 0M8

Objective: To salvage muskox, caribou or arctic hare found dead; to capture up to 10 arctic hare and attach radio-collars, ear-tags.

Location: Sverdrup Pass, Polar Bear Pass.

Permit Number

850876	<p><u>Licensee:</u> Ray Schweinsburg Department of Renewable Resources Government of the N.W.T. Yellowknife, N.W.T. X1A 2L9</p> <p>Objective: To collect tissue samples from hunter-killed caribou, waterfowl and other wildlife to determine levels of pollutants they contain.</p> <p>Location: Broughton Island area,</p>
850877	<p><u>Licensee:</u> Kent Jingfors Department of Renewable Resources Government of the N.W.T. Inuvik, N.W.T.</p> <p>Objective: To study moose population ecology by placing radio-collars on up to 30 adult cow moose and monitoring habitat use; aerial surveys.</p> <p>Location: Norman Wells area,</p>
850878	<p><u>Licensee:</u> Bruce Stephenson Department of Renewable Resources Government of the N.W.T. Yellowknife, N.W.T.</p> <p>Objective: To obtain more information about seasonal movements and ecology of marten to assist in locating sites for transplants and pipeline effect.</p> <p>Location: Brackett/Willow Lake, Fort Norman.</p>
850879	<p><u>Licensee:</u> Ronald Pine Institute for Environmental Awareness George Williams College 555-31 St. Dowers Grove, Illinois U.S.A. 60515</p> <p>Objective: To collect samples of arctic wildlife found dead on Devon Island for museum specimens and research purposes.</p> <p>Location: Devon Island,</p>

Permit Number

850880

Licensee: Bob Bromley
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To band migrating falcons to enhance the understanding of the extent timing and characteristics of migration along the west Hudson Bay.

Location: Eskimo Point area.

850881

Licensee: Broughton Island H.T.A.
Broughton Island, N.W.T.
XOA OBO

Objective: To live trap polar bears in order to weigh, measure and sex the bears; to determine if the bears belong to the same population as Baffin Bay.

Location: Broughton Island area.

850882

Licensee: Marc Cattet
Department of Zoology
University of Alberta
Edmonton, Alberta
T6G 2N8

Objective: To collect kill data on polar bears to study fat deposits,

Location: Coral Harbour area.

850883

Licensee: Doug Heard
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct class counts and to capture caribou for radio-collaring to collect biological specimens from hunter kills.

Location: Bluenose Caribou Herd range, N.W.T.

Permit Number

850884

Licensee: Anne Gunn
Department of Renewable Resources
Government of the N.W.T.
Cambridge Bay, N.W.T.

Objective: To capture and ear-tag muskoxen in order
study productivity of cows and age of first
calving; to study seasonal and annual
movements.

850885

Licensee: Ray Case
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct aerial surveys for muskoxen to
estimate their numbers and distribution.

Location: Area between Dubawnt and Yathkyed lakes south
of the Kunwak River.

850886

Licensee: Ray Case
Department of Renewable Resources
Government of the N.W.T.
Yellowknife, N.W.T.

Objective: To conduct aerial surveys for moose to assess
their distribution to the Liard highway and
the pipeline right of way.

Location: Fort Simpson area and south along the Liard
River to Nahanni Butte.

N.W.T. SCIENTISTS ORDINANCE
INFORMATION FOR LICENCE APPLICANTS

1. The Scientists Ordinance requires that anyone carrying out scientific research in the Northwest Territories, or collecting specimens for use in scientific research, must have a Scientific Research Licence. The only exceptions are where the work consists solely of:
 - studies on land animals - i.e. any species of vertebrates other than sea mammals or fish. Work on land animals requires a licence under the Wildlife Ordinance, and application should be made to:

Chief, N.W.T. Wildlife Service,
Department of Renewable Resources,
Government of the Northwest Territories,
Yellowknife, N.W.T. X1A 2L9
 - archaeological studies. A permit is then required under the Northwest Territories Historical Sites Regulations, and application should be made to:

Director, Prince of Wales Northern Heritage Centre,
Department of Culture and Communication,
Government of the Northwest Territories,
Yellowknife, N.W.T. X1A 2L9
2. In applying for a Scientific Research Licence, the following information should be sent to the Science Advisor:
 - Name and address of the project leader; number of people in the research team that will be working in the Northwest Territories; and their names and addresses if available.

- Name and address of the affiliation (university, consulting firm, etc.)
 - Name and address of funding agency.
 - Statement of objectives and a brief outline of the plan of the proposed study.
 - Itinerary within the Northwest Territories.
 - Arrangements proposed for accommodation, transportation, and supplies, in sufficient detail to show any impact on communities.
 - Where not otherwise apparent, assurance that financial resources are adequate to meet the needs.
3. Where a research project would directly affect or be of particular concern to residents of an indigenous community, advance consultation with the community is required. In these situations the scientist or research agency should approach the Community Council(s) for approval of their project. Sufficient lead time should be allowed - 2 to 3 months may be needed.

It is preferable that the scientist or agency involved undertake this consultation. Written confirmation of community approval should be sent to the Science Advisor in time for the licence to be issued.

4. In addition to a Scientific Research Licence, other approvals may be needed if the research is directed to any of the following subject areas. Please contact the appropriate office for further information.

- Marine Mammals and Fish

Department of Fisheries & Oceans,
Regional Director, Arctic Operations,
Research and Resource Services Western Region,
501 University Crescent,
Winnipeg, Manitoba R3T 2N6

Attention: Head, Fishery Management Division

- Migratory Birds - Banding Permits

Canadian Wildlife Service,
Environment Canada,
351 St. Joseph Blvd.,
Hull, Quebec

- Migratory Birds - Scientific and Avicultural Permits

Canadian Wildlife Service,
Environment Canada,
Room 1110, 10025 Jasper Avenue,
Edmonton, Alberta. T5J 1S6

- Migratory Birds - Sanctuaries

Canadian Wildlife Service,
Environment Canada,
P.O. Box 2310,
Yellowknife, N.W.T.

5. A Land Use Permit may be required if your party is of sufficient size or if the combined size of your party and length of stay exceeds one hundred man-days. For more information, please contact:

Manager, Land Resources,
Department of Indian and Northern Affairs,
Yellowknife, N.W.T. X1A 2R3

6. Those parties wishing to land at Department of National Defence sites should contact the following for permission:

Director of Continental Plans Coordination,
Department of National Defence Headquarters,
Ottawa, Ontario.

Contact should be made concurrently with:

Commander, Northern Region Headquarters,
Department of National Defence,
P.O. Box 6666,
Yellowknife, N.W.T. X1A 2R3

7. Should the scientific party be originating from outside Canada the following Canadian Government agencies may have concerns:

Customs Clearance:

Department of National Revenue,
Customs and Excise Division,
Ottawa, Ontario. K1A 0L5

8. Operation of Radios:

Department of Communications,
Ottawa, Ontario K1A 0C8

9. Parties wishing to enter Inuvialuit lands should seek
information from the Science Advisor.

10. For other information, please contact the Science Advisor.

Science Advisor,
Science Institute of the Northwest Territories,
P.O. Box 1617,
Yellowknife, N.W.T.
X1A 2P2

Telephone: (403) 873-7592