

Geoscape Nunavut THE WORLD BENEATH YOUR FEET

Like other human cultures living in areas having an extreme climate, the people of Nunavut have adapted to a place where temperatures can fluctuate from -60° to +30°C. For thousands of years, survival and prosperity depended on the land, also known as the "geoscape," built by four billion years of Earth history. Large blocks of Earth's rocky crust, called tectonic plates, have separated, collided, and rejoined at many different times and places. Mountains were built and were worn down to their roots; oceans formed and dried up. Climate changed from glacial through tropical and back again. Plants and animals changed as a result, leaving a wealth of amazing fossils. Nunavut is now emerging from a glacial age that covered the territory in ice, creating new land forms and carving the rocks. For about 10 000 years the ice has been slowly retreating, exposing the land for us to use and understand. Discover here how geologists read stories from the rocks. Their interwoven tales are told bit by bit as geologists piece together clues in rocks and soil. Mysteries remain — you are a part of the story and you can be part of the search for more answers.

ROCKS USED BY OUR ANCESTORS

Rocks and minerals have been used for thousands of years to make shelter, and tools for hunting and everyday living.

Hunting, trapping, fishing
Rocks were used to build inuksuit, bolas, fox traps, wolf traps, corals, and fish weirs.

Foot cache
Baffin Island

Tool-making
Rocks, and in some cases metals such as copper, were used to make harpoon tips, knife blades, arrow points, bird darts, and sharpening tools.

Domestic equipment
Rocks were used to make pots, oil lamps, scrapers, ulus, fireplaces, and sleeping platforms.

Special purposes
Rocks were used for memorials, graves, spiritual objects, navigation, and to define spiritual places.

Many tools were made of hard Proterozoic rocks.

Shelter
Permanent and temporary shelters were typically made of rock and/or whale bones. Small shelters were built to contain dogs.

WHY ROCKS AND MINERALS ARE IMPORTANT TODAY

Minerals at work, home, and play

Today in Nunavut, people look for mineral and energy deposits. The deposits include gold, silver, copper, lead, zinc, diamonds, and other minerals that formed in different kinds of rocks over time. Gravel is needed for roads, runways, and construction projects. Oil, natural gas, coal, and uranium are used for energy. For many Nunavummiut, carving stone is very important.

Lights (oil, plastic)
Handle bars (aluminum, steel)
Body of ATV (chromium, zinc, nickel, lead, oil, plastic)
Tires (oil, polycarbonate)
Fuel (oil, polycarbonate)
Battery (lead, oil)
Lead

Axle (steel, iron, chromium, nickel, and oil (lubrication))

What we've found so far:
Found primarily in:
Cenozoic: Natural gas
Mesozoic: Natural gas
Paleozoic: Zinc, Silver, Lead, Oil
Precambrian: Gold, Chromium, Zinc, Silver, Nickel, Copper, Lead, Sapphires, Iron, Calcium, Uranium, Platinum group metals, Carving stones

What we've found so far:
Found primarily in:
Cenozoic: Natural gas
Mesozoic: Natural gas
Paleozoic: Zinc, Silver, Lead, Oil
Precambrian: Gold, Chromium, Zinc, Silver, Nickel, Copper, Lead, Sapphires, Iron, Calcium, Uranium, Platinum group metals, Carving stones

Nunavut has great resource potential. Major deposits of mineral and energy resources are known and others are waiting to be discovered.

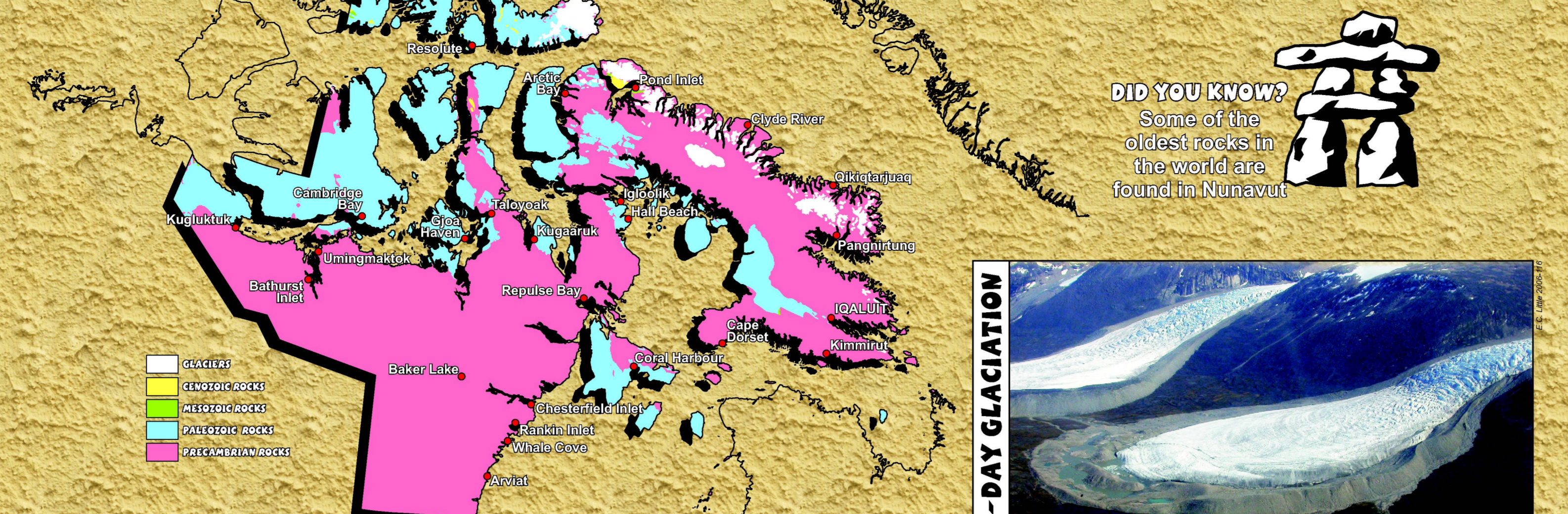
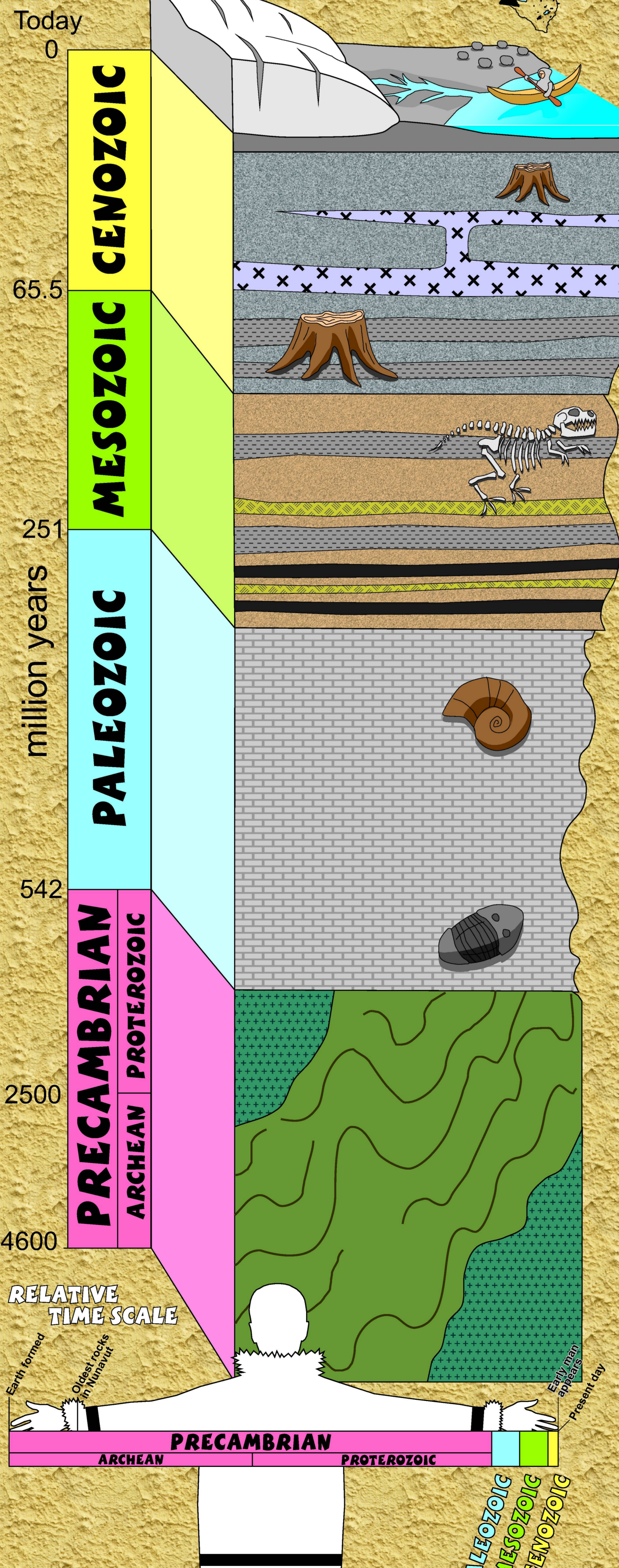
Mineral gallery (in season of visit)

Mineral gallery (in season of visit)

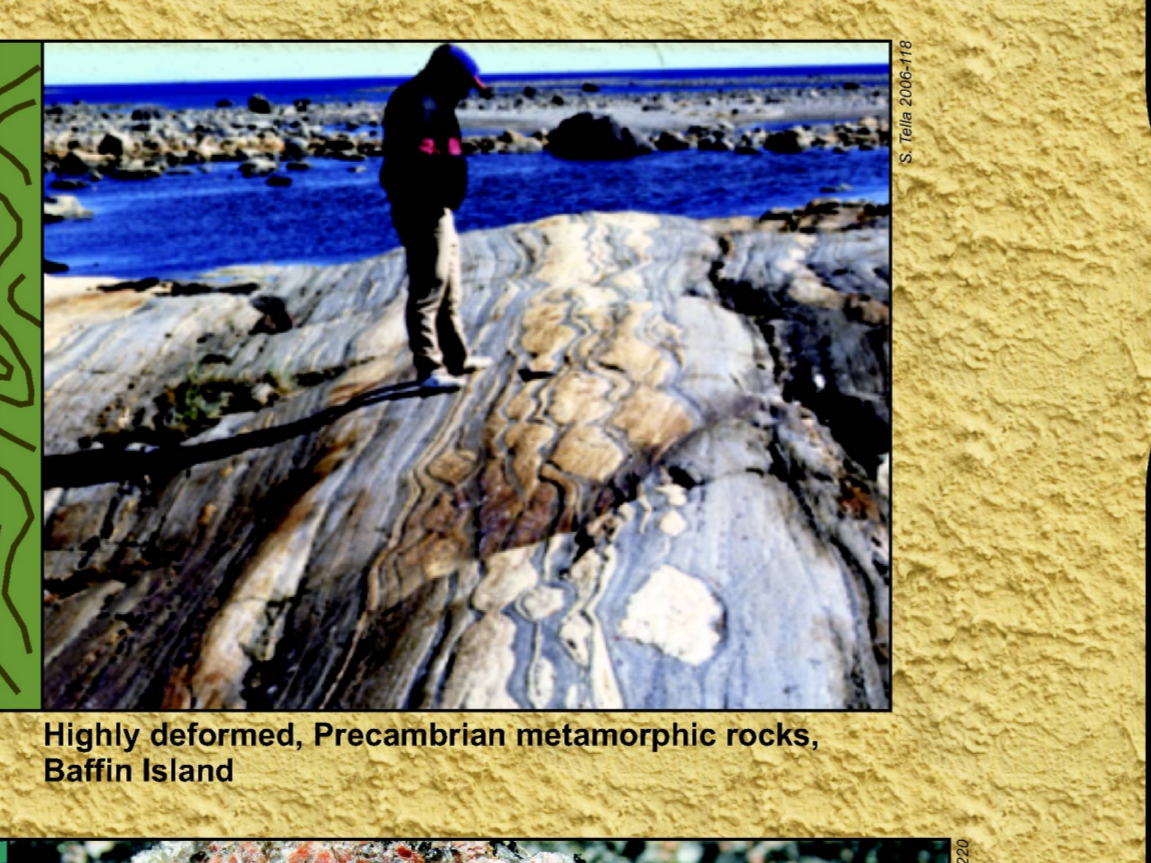
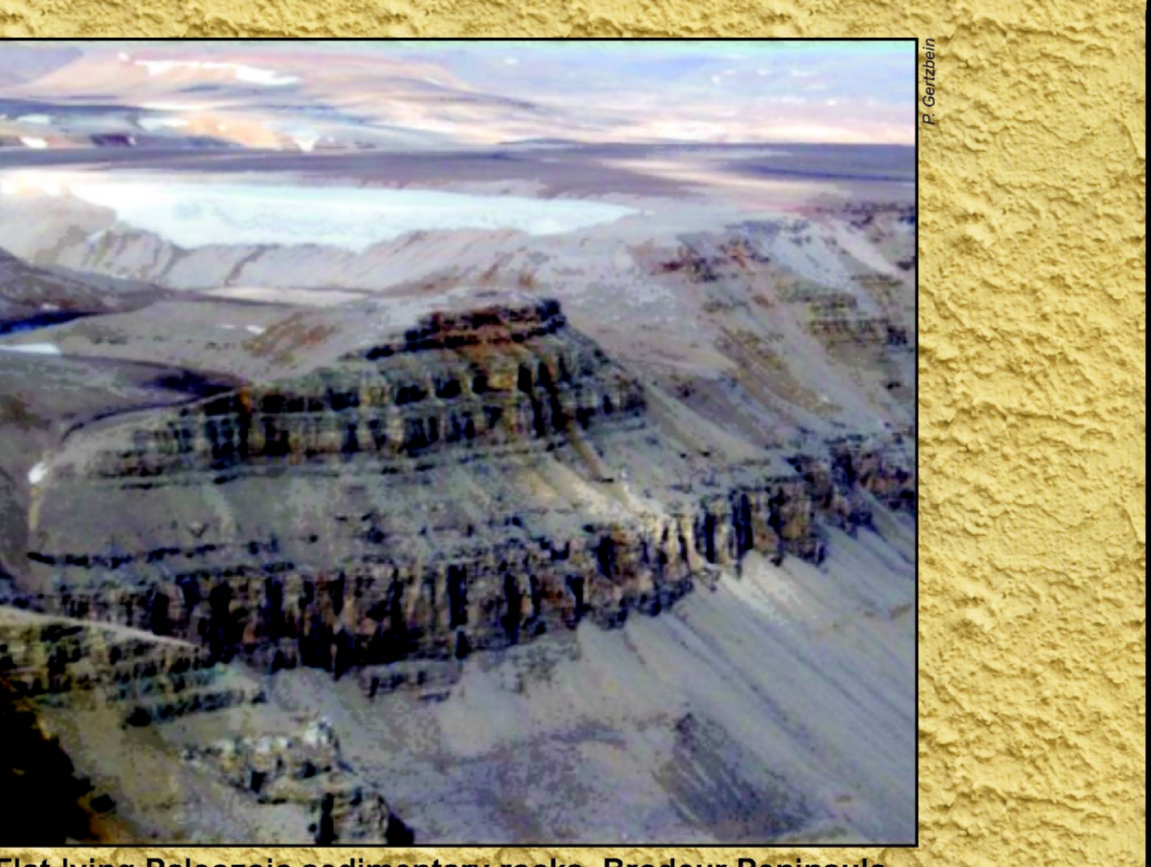
Mineral gallery (in season of visit)

Mineral gallery (in season of visit)

THE AGES OF ROCKS



PRESENT-DAY GLACIATION



WHEN GLACIERS COVERED NUNAVUT

During the past two million years, glacial ice has advanced and melted (retreated) several times over Nunavut.

The accumulation of snow and ice of the most recent glacial period began around 100 000 years ago. The ice sheet reached an average thickness of 2.5 to 3 km before it began to melt 10 000 years ago. Today small glaciers remain in the eastern mountains of Nunavut.

After the ice retreated, it was possible for people to move into newly exposed areas. Evidence of human occupation of Nunavut goes back 4000 years, and by 2500 years ago, Inuit ancestors were living over much of Nunavut.

DID YOU KNOW?
Glaciers today cover about 10% of the world's land surface.

The flow of a glacier is confined by its Ungeled (circumferential) beltland.

Carved landscapes...
The weight and movement of the ice enabled the glacier to occur and shape the land beneath and leave behind loops, sediment and distinctive landforms on bedrock.

A glacier is a broad-based land form sculpted by a mountain glacier.

These massive walls of ice and melt water are about 100 years old.

Glaciers today cover about 10% of the world's land surface.

Rifted mountains, an elevated block of bedrock isolated by an overlying glacier, Baffin Island.

The location of Nunavut 70 million years ago.

Carved landscapes...
The weight and movement of the ice enabled the glacier to occur and shape the land beneath and leave behind loops, sediment and distinctive landforms on bedrock.

A glacier is a broad-based land form sculpted by a mountain glacier.

These massive walls of ice and melt water are about 100 years old.

Glaciers today cover about 10% of the world's land surface.

Rifted mountains, an elevated block of bedrock isolated by an overlying glacier, Baffin Island.

The location of Nunavut 4.5 million years ago.

When giant beavers lived on Axel Heiberg Island, the cool climate was about to change to the much colder glaciations that dominated the last two million years.

PRESENT DAY

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

CENOZOIC ROCKS

65.5 million years ago to present day
The change from forests to tundra

Fossils in Cenozoic rocks record a dramatic change in Earth's history. Fossils on Ellesmere Island show that Nunavut had mild temperatures and forests dominated by dawn redwood trees 65 million years ago. Animals such as *Coryphodon*, alligators, giant tortoises, lemur, and tapirs lived in Nunavut despite long, dark seasons. In the last 65 million years, temperatures have cooled to the present Arctic conditions.

55 MILLION YEARS AGO
The fossilized head of a tree dwelling mammal was found on Axel Heiberg Island. It was identified as the lemur-like mammal.

45 MILLION YEARS AGO
An ancient dawn redwood forest

4.5 MILLION YEARS AGO
When giant beavers lived on Axel Heiberg Island, the cool climate was about to change to the much colder glaciations that dominated the last two million years.

PRESENT DAY

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

MESOZOIC ROCKS

251 million years ago to 65.5 million years ago
The land emerges from the sea

The end of the Mesozoic period marks the extinction of many animals, including the dinosaurs. During the Mesozoic, many modern forms of plants, shelled organisms, and fish evolved. On land, dinosaurs were the dominant animals, while large marine reptiles roamed the sea. In Nunavut, Mesozoic rocks are mainly sedimentary rocks including sandstone, shale, coal, and salt. These rocks were formed in rivers and shallow seas.

Over time the ancient continent of North America moved from its equatorial position toward the north. About 70 million years ago dinosaurs roamed the shores of an inland sea. Dense forests developed on the land and resulted in the formation of thick deposits of coal.

Tyrannosaurus, approximately 3 metres tall, reconstructed from fossils found on Gjoa Haven.

The location of Nunavut 70 million years ago.

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

Some karibou in Nunavut contain diamonds.

Model of a kimberlite pipe.

PALEOZOIC ROCKS

542 to 251 million years ago
When warm tropical seas covered Nunavut

In Paleozoic time, Nunavut was located near the equator and was covered by a tropical sea teeming with life that left behind layers of fossiliferous limestone. Animals that lived in the sea included corals, fish, snails, algae, trilobites, and large squid-like creatures, with straight and coiled shells, called cephalopods. Over millions of years, the remains of ancient creatures trapped in the sea-floor sediments formed fossil-bearing limestone (a type of sedimentary rock).

The location of Nunavut 500 million years ago.

DID YOU KNOW?
Rocks of the Paleozoic contain fossils of plants, animals, and sea life.

A rough, rocky landscape is typical of areas underlain by hard Paleozoic limestone, Ellesmere Island.

Exposed resistant limestone from Cornwallis Island.

A base of a gneiss (igneous).

A base of a gneiss (igneous).

A base of a gneiss (igneous).

PRECAMBRIAN ROCKS

4600 to 542 million years ago
Colliding plates, mountain building, and volcanoes

Precambrian metamorphic rock called gneiss was formed by the collision of massive tectonic plates up to thousands of kilometers wide and tens of kilometers thick. Buried rock units were twisted, folded, faulted, and changed to gneiss under great heat and pressure. Volcanoes formed and sedimentary rocks were deposited in oceans and rivers. At the same time, mineral and metal deposits formed around volcanoes and faults. Cooling and the addition of water allowed soft minerals like serpentine, talc, and calcite to form. The softer rocks are good for carving.

Thousands of millions of years ago, the collision of massive tectonic plates...

The ocean separating eastern and western Nunavut disappeared...

Large glaciers (thousands of kilometers wide) once covered the face of the ancient mountain south of Gjoa Haven.

Mountains are visible over the face of the landscape...

Present-day landscape

DID YOU KNOW?
Most carving stones in Nunavut are made of Precambrian igneous rock.

Present-day landscape

DID YOU KNOW?
Most carving stones in Nunavut are made of Precambrian igneous rock.

Geoscape Nunavut
Geological Survey of Canada
Popular Geoscience 95

This map was produced by Natural Resources Canada in cooperation with Indian and Northern Affairs Canada.

Produced by: J. D'Amore, D. Cooper, J. Haines, M.D. Franklin, E.C. Liles, D. Jones, G. Macdonald, C. M. O'Brien, B.K. Rice, C. St. Jacques, C. St. Jacques, and J. St. Jacques.

Recommended citation:
Geoscape Nunavut. Geological Survey of Canada. Catalogue no. 95-01. Ottawa, Ontario: Queen's Printer, 1995. 100 p. (Popular Geoscience series)

Contributors to the text:
C. M. O'Brien, G. Macdonald, J. Haines, M.D. Franklin, E.C. Liles, D. Jones, G. Macdonald, C. M. O'Brien, B.K. Rice, C. St. Jacques, C. St. Jacques, and J. St. Jacques.

Contributors to the art:
C. M. O'Brien, G. Macdonald, J. Haines, M.D. Franklin, E.C. Liles, D. Jones, G. Macdonald, C. M. O'Brien, B.K. Rice, C. St. Jacques, C. St. Jacques, and J. St. Jacques.

Government agencies:
Canadian Geoscience Office
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of GSC publications:
http://www.nrcc.gc.ca/gsc/pubs.htm

Government of Nunavut
Department of Economic Development and Transportation
100 King Street West
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nunavut.ca

Natural Resources Canada: Earth Science Sector
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

Geological Survey of Canada Bookstore
535 University Street
Ottawa, Ontario K1P 6B7
Canada
Tel: (613) 993-9231
Fax: (613) 993-9232
Internet: www.nrcc.gc.ca

For a full listing of