



Mineral programs of Canadian provincial and territorial geological surveys



Canadian provincial and territorial geological surveys

Geological surveys are government agencies that provide geoscience information to the public, thus supporting responsible resource development and encouraging investment. Geoscience information is used by governments to make informed decisions and create effective policy on resource development, land use, and environmental stewardship. The provincial and territorial surveys are the main stewards for public geoscience within their borders. They conduct programs that address jurisdictional priorities and provide systematic geological descriptions, including mineral, energy, and groundwater endowments. They maintain records of assessment work and are closely linked to agencies that manage mineral tenure and regulations.



Canada's national survey, the Geological Survey of Canada, focuses on programs that are thematic or of national scope. The GSC also partners with provinces and territories on projects of common interest.

This booklet, produced by the Committee of Provincial and Territorial Geologists (www.ngsccanada.com), provides information on the mineral programs of Canada's provincial and territorial surveys, and how to access key publications and services.



British Columbia Geological Survey

PO Box 9333 Stn Prov Gov't

Victoria, BC V8W 9N3

www.em.gov.bc.ca/geology



Yukon Geological Survey

PO Box 2703

Whitehorse, Yukon Y1A 2C6

www.geology.gov.yk.ca



Alberta Geological Survey

402, Twin Atria Building, 4999 - 98 Avenue

Edmonton, Alberta T6B 2X3

www.ags.aer.ca



Northwest Territories Geological Survey

P.O. Box 1320, 4601-B 52 Avenue

Yellowknife, NT, X1A 2L9

www.nwtgeoscience.ca/



Saskatchewan Geological Survey

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Regina SK, S4P 2C7

www.economy.gov.sk.ca/SGS





CANADA-NUNAVUT
GEOSCIENCE OFFICE

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BUREAU GÉOSCIENTIFIQUE
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<http://www.cngo.ca>



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Winnipeg, MB R3G 3P2
www.manitoba.ca/minerals



Ontario Geological Survey
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Sudbury, ON P3E 6B5
www.mndm.gov.on.ca/en/mines-and-minerals/geology



Ministère de l'Énergie et des Ressources naturelles du Québec
Direction générale de Géologie Québec
5700, 4^e Avenue Ouest, D-307, Québec, QC G1H 6R1
www.mern.gouv.qc.ca/mines



Geological Survey of Newfoundland and Labrador
P.O. Box 8700
St. John's, NL A1B 4J6
www.nr.gov.nl.ca/nr/mines/Geoscience/index.html



New Brunswick Geological Survey
1350 Regent Street, Ancillary Building
Fredericton, New Brunswick E3C 2G6
www2.gnb.ca/content/gnb/en/departments/erd/energy/content/minerals.html



Nova Scotia Department of Natural Resources - Geological Services
1701 Hollis Street
PO Box 698, Halifax, Nova Scotia, B3J 2T9
novascotia.ca/natr/meb/



British Columbia Geological Survey



Founded in 1885, the British Columbia Geological Survey is the oldest scientific agency in the Province. The Survey has 29 staff and is headquartered in the provincial capital, Victoria, with a second office in Vancouver to serve the mineral exploration industry.

Commodities produced

Major: Coal, copper, gold, zinc, lead

Minor: Industrial minerals, aggregates, silver, molybdenum, jade

Potential: Ni, Co, Nb, Ta, graphite

Web service: www.empr.gov.bc.ca/mining/geoscience/MapPlace2

MapPlace is the Survey's web service that is designed to reduce the costs of accessing and analyzing multidisciplinary geoscience data in BC.

Users can browse, visualize, and download data and create custom maps.

Databases linked through MapPlace include

- the provincial bedrock geology digital compilation map
- the provincial ice-flow indicator compilation map
- the British Columbia Geological Survey publication catalogue
- geochemical surveys with multi-element analyses from samples of rock, till, stream sediment, and water
- MINFILE, a mineral inventory documenting more than 14,600 metallic, industrial mineral, and coal occurrences
- COALFILE, a collection of close to 1,000 coal assessment reports
- ARIS (Assessment Report Indexing System), a collection of more than 36,000 assessment reports
- Property File, with more than 65,000 government, university, and industry documents
- Geophysical data, including multisensor, airborne geophysical surveys
- Mineral Titles Online (MTO), the public record of mineral, placer mineral, and coal tenures in the province

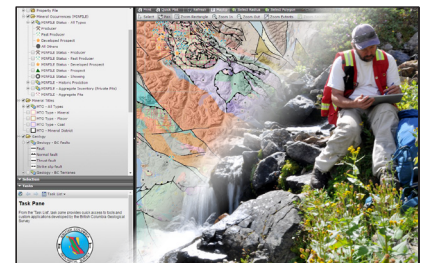
Major geoscience projects and partnerships

- Geo-mapping for Energy and Minerals Phase 2 (GEM2): Investigation of the distribution of porphyry Cu deposits in northwest BC
- Targeted Geoscience Initiative Phase 5 (TGI5): Gold mineralization in northwest BC, genesis of Rare Earth Element (REE) and 'specialty metal' deposits in BC's 'Alkaline belt', and orogenic Ni-Cu-PGE-Cr deposits
- Canadian Mining Innovation Council (CMIC): Quaternary geology and till geochemistry at the Highland Valley copper mine
- Japan Geological Survey: Investigation of REE-fluorite mineralization at the Rock Canyon Creek deposit
- MEM-University of Victoria Geoscience Partnership: Development of apatite as a tectonic discriminant and as an indicator mineral for exploring glaciated regions



MapPlace

digital geoscience for British Columbia



MapPlace 2 (beta) Workshop

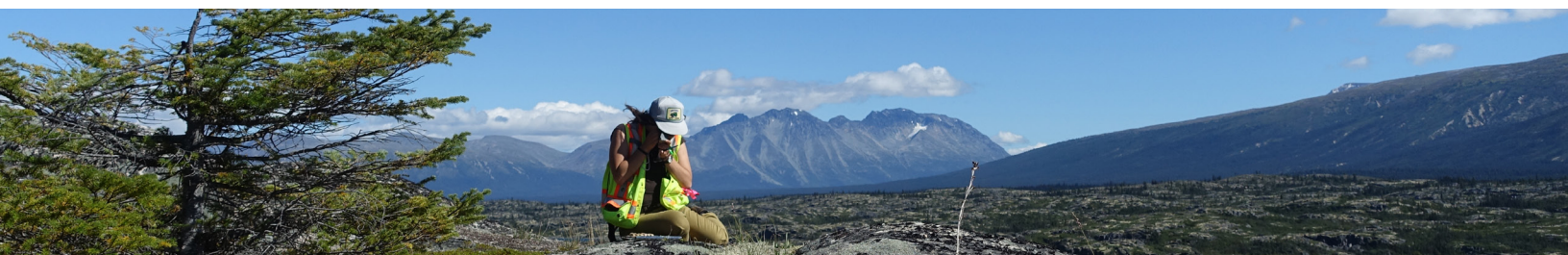
Yao Cui, Gabe Fortin, Sarah Meredith-Jones, Steven Zhao, and Larry Jones



Ministry of
Energy, Mines and
Petroleum Resources



British Columbia Geological Survey Information Circular 2017-3



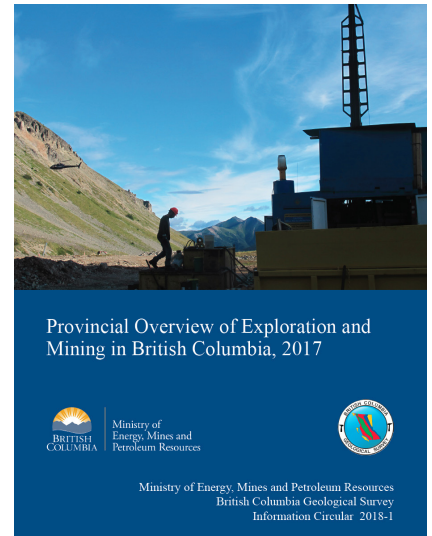
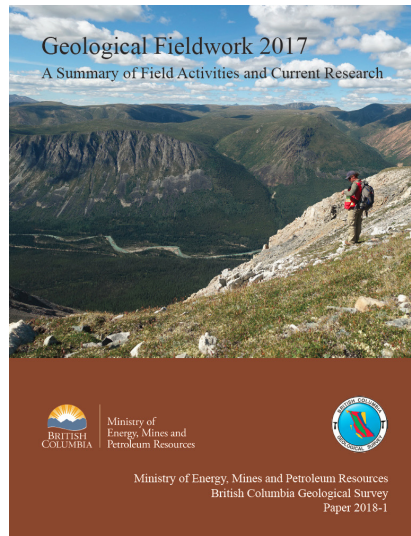
Key publications

All BCGS publications are available at no cost from www.empr.gov.bc.ca

- Geological fieldwork 2017; BCGS Paper 2018-1
- Provincial overview of exploration and mining in British Columbia, 2017; BCGS Information Circular 2018-1
- MapPlace 2 (beta) workshop; BCGS Information Circular 2017-3
- Compiled till geochemical data for British Columbia; BCGS GeoFile 2017-9
- Ice-flow indicator compilation British Columbia and Yukon; BCGS Open File 2016-4
- Regional Geochemical Survey (RGS) update BCGS GeoFile 2017-11
- British Columbia digital geology; BCGS Open File 2017-8
- Cordilleran indicator minerals volume (Geological Association of Canada Special Paper Volume 50 and Mineralogical Association of Canada Topics in Mineral Sciences Volume 47)

To receive notification of our latest releases email:

geological.survey@gov.bc.ca



Local geoscience meetings

- BCGS Annual Open House (November, Victoria)
- Minerals South (November, Cranbrook or Nelson)
- Kamloops Exploration Group (April, Kamloops)
- American Exploration and Mining Association (December, Spokane or Reno)

Other government sources of information on resource development

- Trade and Invest British Columbia: <http://www.britishcolumbia.ca/>
- Mineral Titles Online: <https://www.mtonline.gov.bc.ca/mtov/home.do>
- Front Counter BC: <http://www.frontcounterbc.gov.bc.ca/>

Contacts

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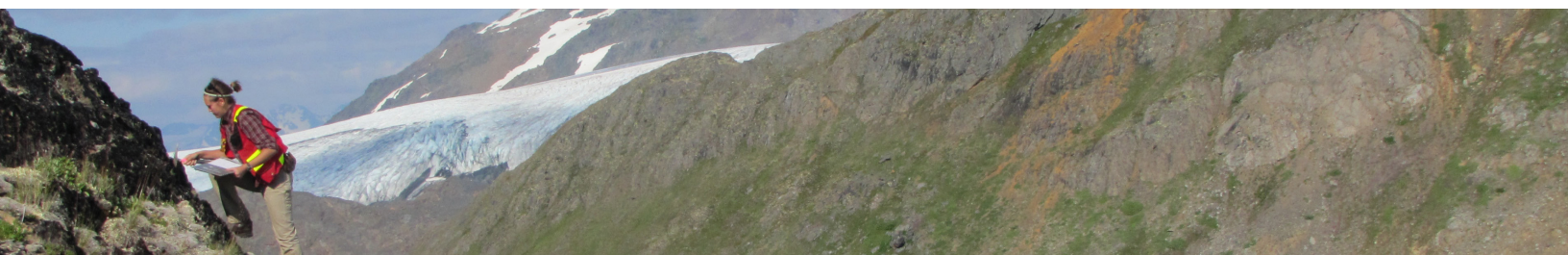
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Yukon Geological Survey



Yukon Geological Survey, established in 1992, delivers a program that includes regional mapping and thematic studies such as mineral deposit research, metallogenic compilations, and placer studies. The survey also administers the Yukon Mineral Exploration Program, which provides a portion of the risk capital needed for early-stage exploration projects.

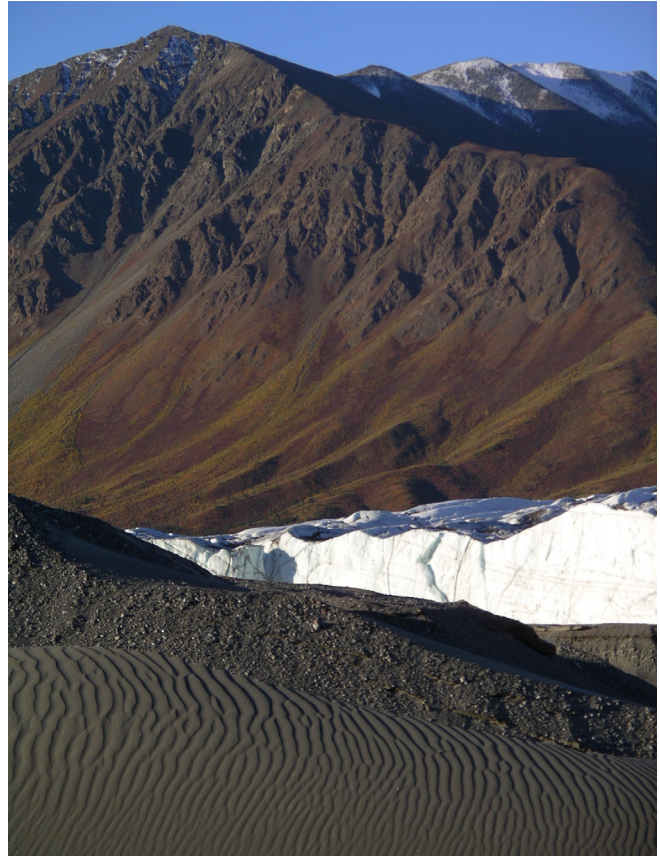
Commodities produced

Major: Gold, copper
Minor: Silver
Potential: Lead, zinc

Web services

Yukon Geological Survey publications, data, and industry files can be accessed online using the Integrated Data System search tool (www.geology.gov.yk.ca). In addition to the IDS, a map-based search tool is under development. Downloadable information includes

- the Yukon digital bedrock geology map
- the Yukon digital surficial geology map
- regional stream-sediment geochemical data and derivative maps
- data on more than 4,000 mineral occurrences and deposits from the Yukon MINFILE database
- annual exploration summaries and research activity reports
- geophysical survey data and maps
- assessment reports and other archived industry files
- the Placer industry report
- information on YGS' diamond drill core collection



Major geoscience projects and partnerships

- Regional bedrock mapping; Hyland River, Frances Lake, Anvil Range, Coast Belt, and Stikinia
- Metallogenic studies of Jurassic plutons (south-central Yukon), alkaline volcanic rocks (Finlayson Lake area), and vein gold (Hyland River area)
- Geo-mapping for Energy and Minerals (GEM): bedrock mapping and thematic studies in southern Yukon
- Targeted Geoscience Initiative Phase 5 (TGI5): Gold in the Rackla belt and Selwyn Basin magmatism



Key publications

- Yukon Exploration and Geology annual reports
- Yukon Exploration and Geology annual reports of activities
- Yukon Mineral Deposits Summaries
- Yukon Digital Bedrock Geology Map Open File 2016-1
- Yukon Placer Mining Industry reports
- annual releases of bedrock and surficial geology maps (Open Files, by year)
- regional stream-sediment geochemical data and enhanced interpretation of stream-sediment geochemical data (released as Open Files, by map sheet)

Local geoscience meetings

- Yukon Geoscience Forum (November, Whitehorse)
- Cordilleran Tectonics Working Group (various locations across Canada)

Other government sources of information on resource development

- Mining Map Viewer
www.mapservices.gov.yk.ca/Mining/
- Yukon Mining Land Use
www.emr.gov.yk.ca/mining/mining_land_use.html
- Yukon Environmental and Socio-economic Assessment Board
www.yesab.ca/
- Yukon Chamber of Mines
www.yukonminers.ca/
- Yukon government spatial data warehouse
<http://mapservices.gov.yk.ca/GeoYukon/>

Contacts

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Alberta Geological Survey



Since the early 1920s, the Alberta Geological Survey has provided information and advice about the geology of Alberta to the Government of Alberta, provincial regulatory agencies, industry, and the public to support the exploration, sustainable development, regulation, and conservation of Alberta's resources. The Survey is part of the Alberta Energy Regulator and has 60 staff, headquartered in the provincial capital, Edmonton.

Commodities produced

Major: Oil, gas, NGL, coal, aggregate, sulphur, limestone

Minor: Building stone, silica sand, peat, salt, gold, clay, shale, marl, ammolite

Potential: Iron, vanadium, lithium, diamond, uranium, nickel, zinc, copper, cobalt, REEs, phosphate, potash, heavy minerals



Web service

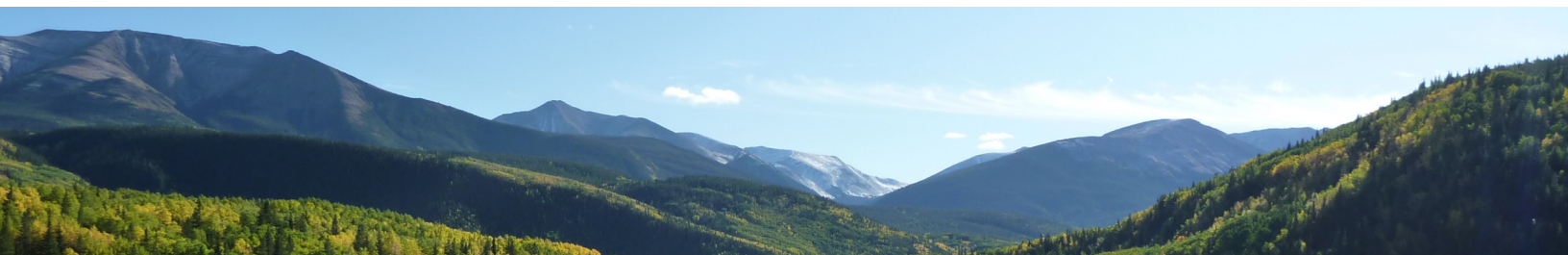
The Survey's newly designed website provides access to all AGS reports, maps, and digital datasets, and features interactive web-mapping services and an Open Data Portal geology.ags-aer.opendata.arcgis.com

Users can visualize, query, and download published datasets including

- digital compilation maps of bedrock geology and topography, surficial geology, sediment thickness, and glacial landforms
- an inventory of sand and gravel deposits and their aggregate resource potential
- an inventory of kimberlites, ultramafic intrusions, and kimberlite-indicator samples
- an inventory of industrial and metallic mineral occurrences and resource estimates (including historical) for iron, magnetite, silica sand, bentonite, aggregate and polymetallic (Ni-U-Zn-Cu-Co-REE-Y) deposits
- an inventory of lithium concentrations from groundwater and formation-brine geochemical data from oil and gas wells
- an inventory of mineral core holdings housed at the Mineral Core Research Facility in Edmonton, including 60,500 m of mineral core and 12,500 m of coal core
- northern Alberta RADARSAT-1 imagery

Major geoscience projects and partnerships

- Alberta minerals data inventory
- Mineral resource and dispersal mapping in west-central and northwestern Alberta
- Mineral potential assessment in north-central and northeastern Alberta
- Targeted Geoscience Initiative 5 (TGI 5) – Uranium Systems: Geological characterization of the western Athabasca Basin



Key publications

All AGS publications are available at no cost from www.ags.aer.ca

- Aeromagnetic Survey of the Marguerite River Area, Alberta, Parts of NTS 74E/L North and 74E/L South; AGS Maps 584 to 589, 2017 (co-published with GSC)
- Relative landslide susceptibility model of the Alberta plains and shield regions; AGS Map 605 and Information Series 148, 2017
- Alberta Interactive Minerals Map (AIMM), 2016
- Diamond potential in Alberta; AGS Special Report 103, 2016
- Limestone and dolomite prospects for industrial use in the Alberta Foothills and Front Ranges; AGS Special Report 102, 2016
- Inorganic geochemistry of Alberta geological units for shale- and siltstone-hosted hydrocarbon evaluation, AGS Digital Data 2016-0001, 2016
- Glacial landforms of Alberta; AGS Map 604, 2015
- Bedrock topography of Alberta; AGS Map 602, 2015
- Bedrock geology of Alberta; AGS Map 600, 2013
- Geology of the Alberta Rocky Mountains and Foothills; AGS Map 560, 2013
- Geological introduction to lithium-rich formation water with emphasis on the Fox Creek area of west-central Alberta; AGS Open File Report 2011-10, 2012
- Review of metallic mineralization in Alberta with emphasis on gold potential; AGS Open File Report 2011-01, 2011
- Northern Alberta kimberlite province: the first 20 years; AGS Bulletin 65, 2011

Geoscience meetings

- Calgary Mineral Exploration Group
<http://www.megcalgary.com/>
- Geoconvention (May, Calgary)
<http://www.geoconvention.com/>
- Canadian Society for Unconventional Resources
<http://www.csur.com/>

Other government sources of information on resource development

- Alberta Energy Regulator: <http://aer.ca>
- Alberta Energy: <http://www.energy.alberta.ca>
- Alberta Environment and Parks: <http://aep.alberta.ca>

Contacts

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Phone: (780) 638-4491
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Edmonton, Alberta
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Andrew Beaton, Vice President
(780) 427-3272
Andrew.Beaton@aer.ca



Northwest Territories Geological Survey



The Northwest Territories Geological Survey (NTGS) is a Division of the Department of Industry, Tourism and Investment, Government of the Northwest Territories. The NTGS advances the geoscience knowledge of the Northwest Territories by conducting and publishing geoscience research, analyzing mineral and petroleum potential, and offering excellence in digital data management. The NTGS also conducts environmental geoscience research and outreach activities.

Commodities produced

Major: Diamonds

Minor: Industrial minerals, oil and gas

Potential: Gold, rare metals and elements, lead, zinc, silver, copper, cobalt, bismuth, tungsten



Web services

NTGS web applications provide search, display, and download capabilities for NWT geoscience information and publications <http://www.nwtgeoscience.ca/search-and-explore-our-data>

- **NT GoData** searches and downloads information from databases containing NTGS publications, mineral showings, mineral exploration assessment reports, petroleum industry reports, digitally submitted geophysical and geochemical data, and diamond, kimberlite, and till geochemistry information. <http://ntgodata.nwtgeoscience.ca/>
- **GoMap** can be used to create custom maps and query subsets of data. <http://ntgomap.nwtgeoscience.ca/>
- The **Gateway** provides a more public-friendly way to browse and download mineral exploration assessment reports, petroleum well history, geological and geophysical reports, and NTGS publications. <http://gateway.nwtgeoscience.ca/>

Major geoscience projects and partnerships

- Slave Province Surficial Materials and Permafrost Study (major funder – Canadian Northern Economic Development Agency)
- Detailed stratigraphic mapping, sampling, and resource characterization of Northwest Territories sedimentary basins
- Bedrock geology compilation of the Northwest Territories, plus region-specific geology maps with mineral and petroleum information
- Permafrost and ground temperature studies and associated landscape change
- Geo-Mapping for Energy and Minerals Phase 2 (GEM2): various projects throughout the Northwest Territories



Key publications

- Northwest Territories Mineral Exploration Overview (published annually in November and updated the following March)
- Slave Province surficial materials and permafrost study – kimberlite indicator mineral counts and grain morphology from the 2015 reverse circulation drilling program; NWT Open Report 2016-018.
- The structural model for Howard's Pass Pb-Zn District, Northwest Territories: Grounds for re-interpretation; NWT Open File 2015-01
- Devonian Horn River Group: a reference section, lithochemical characterization, correlation of measured sections and wells, and petroleum-potential data, Mackenzie Plain area; NWT Open File 2014-06
- Geology of the central Mackenzie Mountains of the northern Canadian Cordillera, Sekwi Mountain (105P), Mount Eduni (106A), and northwestern Wrigley (95M) Lake map areas, Northwest Territories; NWT Special Publication 1
- Broad-scale mapping of terrain impacted by retrogressive thaw slumping in Northwestern Canada; NWT Open Report 2016-008
- Geological compilation of the western mainland and southern Arctic Islands regions, Northwest Territories; NWT Open File 2014-01

Local geoscience meeting

- Yellowknife Geoscience Forum (November, Yellowknife)

Other government sources of information on resource development

- Department of Industry, Tourism and Investment (ITI): <http://www.iti.gov.nt.ca/en>
- ITI – Mines and Minerals: <http://www.iti.gov.nt.ca/en/mines-and-minerals>
- ITI – Oil and Gas: <http://www.iti.gov.nt.ca/en/oil-gas>
- Mining Incentive Program: <http://www.nwtgeoscience.ca/services/mining-incentive-program>

Contacts

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Saskatchewan Geological Survey



Saskatchewan!

The Saskatchewan Geological Survey (SGS) has a mandate to provide high-quality, easily accessible geoscience information to encourage and facilitate the responsible exploration for, and development of, Saskatchewan's mineral and petroleum resources, thereby advancing Saskatchewan's natural resource advantage. The SGS has forty staff and is based in Regina.

Commodities produced

Major: Potash and uranium

Minor: Coal, gold, sodium and potassium sulphate, salt and clays

Potential: Base metals, diamonds, and silica sand

Web services

The Saskatchewan Mining and Petroleum GeoAtlas is the Survey's web service that allows anyone with an internet connection to browse, visualize, download, and analyze multidisciplinary geoscience data, and create custom maps.

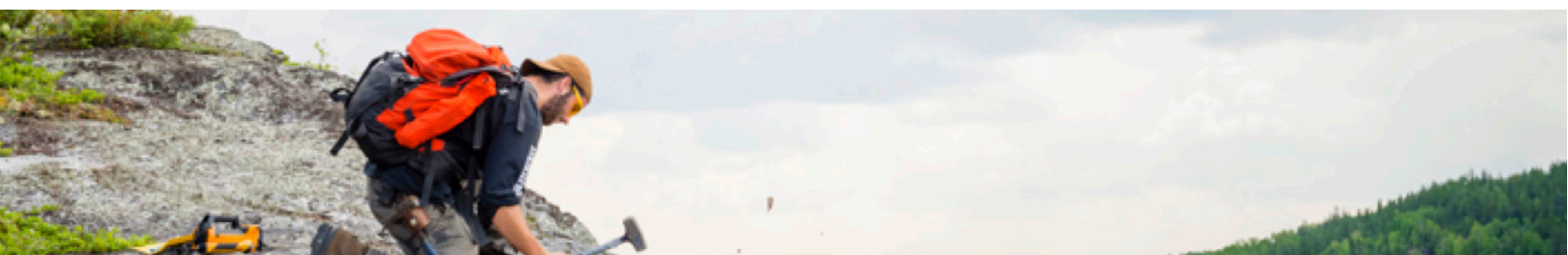
<https://gisappl.saskatchewan.ca/GeoAtlas>

Over a hundred databases are linked through the Atlas, including

- provincial bedrock and surficial geology compilation maps
- drillhole compilations
- an EM conductor compilation
- a geochronology compilation
- a provincial ice-flow indicator compilation
- Crown dispositions and reserves
- oil and gas wells, pools, and land sale postings
- geochemical surveys with multi-element analyses from samples of rock
- SMDI, a mineral inventory documenting more than 5,500 metallic, industrial mineral, and coal occurrences
- SMAD (Assessment Report Indexing System), a collection of online mineral assessment reports

Major geoscience projects and partnerships

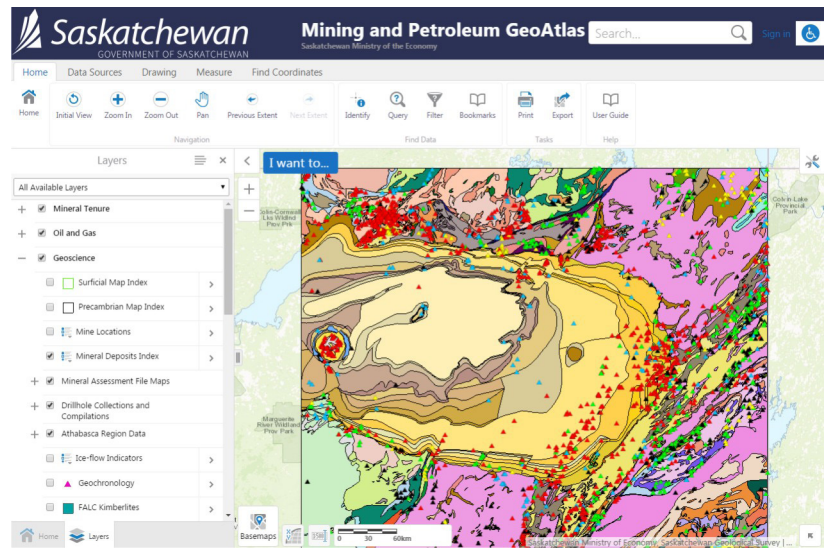
- Targeted Geoscience Initiative Phase 5 (TGI5): Includes context of uranium mineralization in the southwest part of the Athabasca Basin
- Geological Survey of South Australia: Scientific and technical cooperation with respect to minerals including professional development opportunities
- Canadian Mining Innovation Council (CMIC): 3D modeling in support of "Footprints" uranium project
- China Academy of Geological Sciences (China Geological Survey): 3D geological modeling and field mapping techniques
- Beijing Research Institute of Uranium Geology: Uranium geology
- International Atomic Energy Agency: Production of World Distribution of Uranium Deposits Map



Key publications

All SGS publications are available at no cost from:
www.economy.gov.sk.ca/Publications

- Summary of Investigations 2017; Misc. Rep. 2017-4.1 and 4.2
- Resource Map of Saskatchewan, 2017 Edition, Misc. Rep. 2017-1
- Aeromagnetic Survey of the Marguerite River Area, Saskatchewan; Open File 2017, 1-9
- Saskatchewan Gold: Mineralization styles and mining history. Rep. 262
- Geology of the Pine Lake Greenstone Belt, Laonil-Uskik lakes area; GM 2016-1
- Porosity and permeability evaluation for the Devonian-Mississippian Lower Middle Bakken Member in the Viewfield Pool, southeastern Saskatchewan; Misc. Rep. 2016-3
- A summary of helium exploration, production, traps and sources in southwestern Saskatchewan, and suggestions for exploration; Open File 2016-1
- Saskatchewan Phanerozoic Fluids and Petroleum Systems Project: Hydrogeology of the Phanerozoic-aged strata of Saskatchewan; Open File 2015-1



Local geoscience meetings

- Saskatchewan Geological Open House (early December, Saskatoon)
- Williston Basin Petroleum Conference (biannually in May, Regina)

Other government sources of information on resource development

- Labour Market Development:
www.economy.gov.sk.ca/LabourMarketDevelopment
- Acquire mineral dispositions online from Mineral Administration Registry Saskatchewan (MARS):
www.economy.gov.sk.ca/SaskMineralRegistry
- Mineral Tenure: www.economy.gov.sk.ca/mines



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Canada-Nunavut Geoscience Office



CANADA-NUNAVUT
GEOSCIENCE OFFICE

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BUREAU GÉOSCIENTIFIQUE
CANADA-NUNAVUT

KANATAMI-NUNAVUMI
GEOSCIENCE TITIGAKVIIT

The youngest jurisdiction in Canada, becoming a territory in 1999, Nunavut does not yet have a formal survey. Instead, the Canada-Nunavut Geoscience Office (CNGO) is managed and funded by the federal government through Natural Resources Canada (Earth Sciences Sector), Indigenous and Northern Affairs Canada, and the Government of Nunavut (Economic Development and Transportation). The CNGO is managed with input from a Management Board with representatives from the federal and territorial governments and Nunavut Tunngavik Inc., the organization that ensures the Nunavut Lands Claims Agreement is adhered to.

With an office in Iqaluit, the CNGO has six staff with expertise in Precambrian, Paleozoic, and Quaternary geology, GIS, and online geoscience data dissemination. The CNGO's mandate is to: 1) develop capacity in geoscience; 2) maintain an accessible geoscience knowledge base; 3) promote sustainable development of Nunavut's mineral and energy resources; and 4) increase awareness of the importance of Earth science for the people of Nunavut (Nunavummiut). To accomplish this mission, the CNGO provides mapping, reports, and interpretations about the geology and resources of Nunavut. In collaboration with many partners, CNGO aims at engaging the public on key geoscience issues.

Commodities produced

Major: Gold, iron

Potential: Lead, zinc, silver, copper, uranium, nickel

Web services

CNGO web applications provide display and download capabilities for geoscience information and publications.

- The NunavutGeoscience.ca website provides open access to public geoscience information
- NUMIN is a database within NunavutGeoscience.ca that contains mineral showings and geological metadata

Major geoscience projects and partnerships

- Strategic Investments in Northern Economic Development (funded by Canadian Northern Economic Development Agency)
- Geo-Mapping for Energy and Minerals Phase 2 (GEM2 collaboration with the Geological Survey of Canada)

Examples of recent projects include

- Hall Peninsula; southern Baffin Island, Baffin (Qikiqtani Region); Elu Belt (Kitikmeot Region); Tehery Lake-Wager Bay (Kivalliq Region)
- Surficial studies and permafrost investigations
- Sylvia Grinnell; Hall Peninsula; Western Hudson Bay; Iqaluit airport
- Paleozoic stratigraphy and petroleum potential
- Hudson Bay, Ungava Bay, Akpatok Island, Southampton Island, High Arctic
- Seabed mapping and characterization of Frobisher Bay



Key publications

All CNGO publications are available at no cost from www.cngo.ca

All Geological Survey of Canada publications are available on GEOSCAN at <http://geoscan.nrcan.gc.ca/>

- Summary of Activities, published annually since 2012. Available digitally December 31 and in hard copy late January of the following year.
- Nunavut Exploration Overview, a joint publication led by the Nunavut Regional Office of Indigenous and Northern Affairs Canada

Local geoscience meeting

- Nunavut Mining Symposium (April, Iqaluit)

Other government sources of information on resource development

- Government of Nunavut, Department of Economic Development and Transportation, Minerals and Petroleum Resources; www.gov.nu.ca/edt
- Indigenous and Northern Affairs Canada (INAC), Nunavut Regional Office, Resource Management Directorate and Lands and Contaminated Sites Directorate; www.aandc-aadnc.gc.ca/nu



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Manitoba Geological Survey



The Manitoba Geological Survey collects, distributes, and archives information about Manitoba's geology and mineral resources to attract exploration investment, foster sustainable mineral and petroleum developments, inform government policy and land management, and contribute to the quality of life and economic prosperity of all Manitobans.

Commodities produced

Major: Nickel, copper, zinc, gold, silver, oil

Minor: Cesium, natural gas, gypsum, high-Ca limestone, aggregate, crushed stone, dimension stone, high-purity dolomite

Potential: Frac sand, potash, lithium



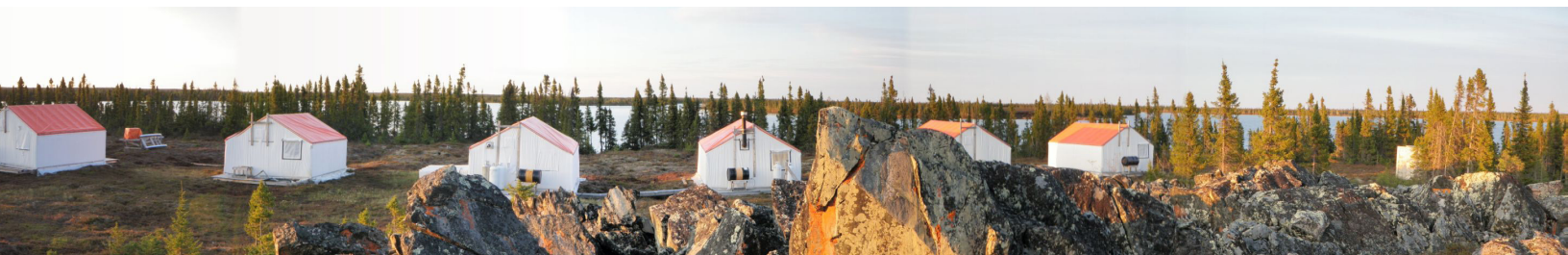
Web services: <http://www.gov.mb.ca/iem/geo/index.html>

The Manitoba Resource Development Division website offers, at no charge, current and historical geoscience information to assist the exploration and mining industry, academia, and the general public. These include

- the GIS Map Gallery, an interactive map portal to view, query, and extract mineral disposition and geoscience data, including mining claims, exploration licenses, assessment files, drill hole locations, geophysical data, mineral occurrences, bedrock and surficial geology data, petroleum well information, and technical well files
- Mineral Commodities in Manitoba: brochures for copper-zinc, gold, nickel, rare metals, diamond potential, uranium, and lithium
- trackers for ongoing mineral exploration and Geological Survey activities
- a 3-D Geological model of the Phanerozoic section in southwest Manitoba
- Rare Metals in Manitoba, a compilation of rare metal occurrences
- surficial geology maps and a digital compilation of surficial features such as ice-flow indicators
- the Bibliography of Manitoba Geology, listing 15,000 reports, maps, journal articles, and conference proceedings
- Phanerozoic stratigraphic maps depicting structural, isopach, subcrop, and outcrop information
- a digital elevation model of Manitoba, based on high-resolution SRTM data
- Industrial Minerals, occurrences and historical accounts
- weekly updates on petroleum drilling and well status
- the Corporation File database, which includes descriptions of more than 2,000 mining corporations, some of which have been active since the 1920s
- historical documents on early exploration targets (e.g., oil shale, helium)

Major geoscience projects and partnerships

- Geo-mapping for Energy and Minerals Phase 2 (GSC): hydrocarbon potential of the Hudson Bay basin onshore strata
- Targeted Geoscience Initiative Phase 5 (GSC): gold ore systems in the Lynn Lake greenstone belt
- Metal Earth (Laurentian U): precious and base metal endowment of the Canadian Shield
- Geology and Metallogeny of Archean and Paleoproterozoic greenstone belts (Oxford Lake–Knee Lake, Flin Flon–Snow Lake, Lynn Lake–Leaf Rapids)
- Shallow Unconventional Shale Gas Project (U of Calgary, U of Manitoba, Manitoba Hydro): shallow biogenic gas potential of Cretaceous strata in the Williston Basin



Key publications

- Annual Report of Activities
- Preliminary geology of diamond occurrences at southern Knee Lake, Oxford Lake-Knee Lake greenstone belt, Manitoba (NTS 35L 15); Open File 2017-3
- Geology of the Paint and Phillips lakes area, Thompson nickel belt, central Manitoba (parts of NTS 63O1, 9, 9, 63P5, 12); Geoscientific Report GR2016-1
- Kimberlite-indicator-mineral results derived from glacial sediments (till): Southern Indian Lake area, Kaskattama highlands area: Open Files 2017-1 and -2
- Post-glacial lacustrine and marine deposits, far northeastern Manitoba (parts of NTS 54E, L, M, 64I, P); Geoscientific Paper GP2015-1
- Surficial geology of the North Knife and South Knife lakes area (west and east half), Manitoba: Geoscientific Maps 2015-1 and-2
- Geology of the Athapapuskow Lake area, western Flin Flon belt, Manitoba (part of NTS 63K12); Geoscientific Report GR2014-1
- Manitoba Kimberlite Indicator Mineral Database Version 3.1



MGS publications are available for free download at www.Manitoba.ca/minerals

Local geoscience meetings

- Manitoba Mining and Minerals Convention (November, Winnipeg, <http://www.manitoba.ca/iem/convention/index.html>)
- Manitoba Prospectors and Developers Association (member meetings throughout the year, Winnipeg, <http://mpda.ca/>)

Other government sources of information on resource development

- Manitoba Mineral Sector Profile: <http://www.manitoba.ca/iem/busdev/sector/index.html>
- Exploration and Development Highlights: <http://www.manitoba.ca/iem/busdev/exp-dev/index.html>
- Mineral Exploration Activity Tracker: <http://www.manitoba.ca/iem/geo/gis/activity/index.html>
- Weekly Well Activity Report: <http://www.manitoba.ca/iem/petroleum/wwar/index.html>

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Ontario Geological Survey



The Ontario Geological Survey is the principal provincial government organization responsible for the documentation and public dissemination of geoscience information. The Survey has 115 staff and is headquartered in Sudbury; eight satellite offices throughout the province serve the mineral exploration industry.

Commodities produced

Major: Gold, nickel, copper, platinum group metals, zinc, salt, sand and gravel

Minor: Silver, cobalt, diamonds, clay, stone, lime, cement, nepheline syenite

Potential: Lithium, indium, selenium, tellurium, quartz (silica), graphite

Web services

Geoscience data collected by the OGS can be viewed geographically and spatially using the OGSEarth application (www.ontario.ca/ogsearth). Embedded links in OGSEarth allow users to download maps and data from GeologyOntario.

- GeologyOntario (www.ontario.ca/geology), the OGS online data warehouse, provides free downloads of OGS geoscience publications and datasets. Paper reports and maps, and digital data in CD or DVD formats can also be purchased through the sales outlet.
- Geophysical Survey Index (www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/) geophysical; GIS format files (and an associated .kml file) are updated with new data releases.
- Provincial digital compilation maps: bedrock geology, and Quaternary geology.
- Southern Ontario digital compilation maps: surficial geology, Paleozoic geology, physiography.
- 3D Mapping of Surficial Aquifers contains information about the distribution and character of surficial materials that may form aquifers and aquitards.
- Geochemical surveys with multi-element analyses from samples of rock, till, stream sediment, and water
- Ambient Groundwater Geochemistry contains inorganic analyses from more than 2300 water samples collected in southern Ontario.
- Southern Ontario Stream Sediment Geochemistry Survey, consists of stream-sediment data including metals chemistry determined in 2113 samples collected across southern Ontario.
- ARO—2016, a compilation of the aggregate resources of Ontario.
- MDI, the Mineral Deposit Inventory database, contains over 19,000 records providing an overview of metallic and industrial mineral occurrences.

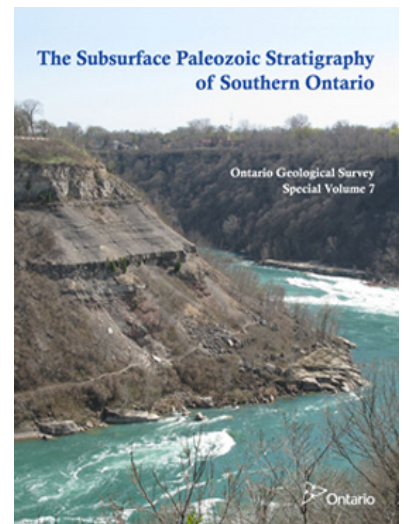
Major geoscience projects and partnerships

- Targeted Geoscience Initiative 5 (TGI-5)
- OGS–GSC Collaborative Project: Regional Hydrogeology of Southern Ontario
- MERC–Laurentian University—OGS: Low-Sulfide PGE-rich Sudbury Footwall Mineralization Study
- Canada in 3-D Initiative
- Metal Earth Project - Laurentian University



Key publications

- Summary of Field Work and Other Activities (annual report of OGS mapping work)
- Report of Activities, Resident Geologist Program (6 annual reports from the regional offices)
- Geology of Ontario (Special Volume 4, 2 parts + maps)
- The Geology and Ore Deposits of the Sudbury Structure (Special Volume 1)
- The Subsurface Paleozoic Stratigraphy of Southern Ontario (Special Volume 7)
- GeoTours Northern Ontario (online PDF virtual tours)
- ROCK ONtario (the geology of Ontario for the public)



Local geoscience meetings

- Ontario Prospector's Association Northwestern Ontario and Northeastern Ontario Mines and Minerals Symposia (spring, Thunder Bay, ON; and other locations)
- Ontario Petroleum Institute Annual Meeting (spring or fall, various locations)



Other government sources of information on resource development

- Exploration and Developing Minerals in Ontario:
<http://www.mndm.gov.on.ca/en/mines-and-minerals/exploration-and-developing-minerals-ontario>
- Mining Act Awareness Program:
<http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/mining-act-awareness-program>

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Québec Ministère de l'Énergie et des Ressources naturelles



Since 1891, the Mining sector of the Québec government has evaluated and promoted the mineral potential of the province. Now headquartered in Québec City, and with a staff of 200 people, the sector acquires, treats, integrates, and distributes geoscience knowledge about mineral resources. The sector is also a world leader in capturing and processing geoscience data.

Commodities produced

Major: Gold, iron, nickel, titanium, niobium

Minor: Diamond, cobalt, copper, silver, zinc, platinum group elements, silica, graphite, mica, salt, feldspar

Advanced projects: Lithium, apatite, rare earths elements, vanadium

Web services

SIGÉOM is a spatial information system that contains the entire Québec geoscientific database collected in the last 150 years. Every year, it grows richer with additional data from geological surveys by the Ministry, prospecting and exploration assessment reports by companies, and studies by university researchers. (sigeom.mines.gouv.qc.ca)

SIGÉOM contains

- the Interactive Map, a friendly interface that gives a global overview of the SIGÉOM database
- Web Mapping Services (WMS) that allow you to access the SIGÉOM database and load data directly into your GIS software.
- the gateway to Géologie Québec's records, holding more than 80,000 documents (bibliographic data, reports, maps)
- SIGÉOM à la carte, which gives access to the entire geoscientific database and allows searches to be performed by precise criteria and to get maps in different file formats

GESTIM Plus (Québec mining titles online) provides instant access to up-to-date data in the Register of real and immovable mining rights in Québec. (gestim.mines.gouv.qc.ca)

Major geoscience projects and partnerships

- Géologie Québec's Annual Survey Program: geological mapping, airborne geophysical surveys and geochemical sampling.
- Regional geology and metallogeny of gold in the Opinaca and La Grande subprovinces of the Superior Province.
- Geo-mapping for Energy and Minerals (GEM-2): Bedrock and Surficial deposits mapping projects in northeastern Québec.
- Targeted Geoscientific Initiative (TGI-5): Collaboration on various mineral deposit studies in the Canadian Shield.
- Metal Earth: To understand metal endowment in the Canadian Shield, multiple geoscientific research transects will be carried out in the Abitibi region.
- Consortium de recherche en exploration minérale (CONSOREM): Applied research projects to optimize the discovery of new deposits in Québec.
- Diversification de l'exploration minérale au Québec (DIVEX): Improves our understanding of rare earth element deposits.
- NSERC-Agnico-Eagle Industrial Research Chair: New exploration methods for gold exploration using indicator minerals.



Key publications

- Choosing Québec's mining sector: mern.gouv.qc.ca/english/publications/mines/mining-sector.pdf
- Reports on Mineral Activities in Québec: mern.gouv.qc.ca/english/mines/publications/publications-report.jsp
- Québec Mines Bulletin: mern.gouv.qc.ca/english/mines/quebec-mines/index.asp
- Strategic Vision for Mining Development in Québec: mern.gouv.qc.ca/english/mines/strategy/index.jsp

Local geoscience meetings

- Québec Mines Convention (November, Quebec City, QC)
- Kuujuaq Mining Workshop (April, Kuujuaq, QC)

Other government sources of information on resource development

- Société du Plan Nord: plannord.gouv.qc.ca
- Investissement Quebec: www.investquebec.com
- SOQUEM: soquem.qc.ca

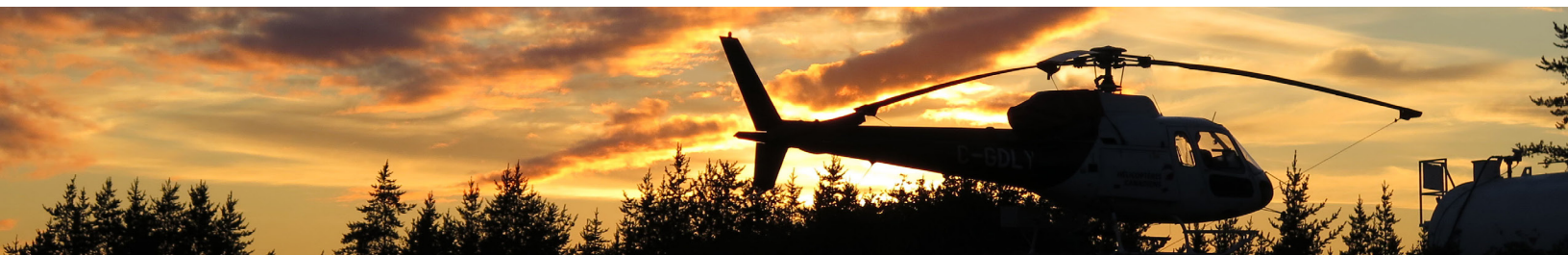


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Twitter: [@MERN_Quebec](https://twitter.com/MERN_Quebec) and [#quebecmines](https://twitter.com/quebecmines)



Geological Survey of Newfoundland and Labrador



The Geological Survey of Newfoundland and Labrador is responsible for mapping the geological framework of the province to interpret and explain its geological evolution, and to describe, interpret, and explain the distribution, nature, quantity, and origin of the province's mineral resources.

The Geological Survey currently has five sections (Regional Geology; Mineral Deposits; Geochemistry, Geophysics and Terrain Sciences; Geoscience Data Management; and Geoscience Publications and Information), and 53 staff. The Survey offices are mostly in the Natural Resources Building in the provincial capital, St. John's. The Geological Survey also has a geochemical laboratory in St. John's, and a staff member in Happy Valley-Goose Bay, Labrador.

Commodities produced

Major: Iron ore, nickel, copper

Minor: Gold, cobalt, limestone, dolomite, barite, pyrophyllite

Historic: Zinc, lead, silver, antimony, slate

Potential: Fluorspar, rare earth elements and rare metals, uranium

Web services

We have a comprehensive suite of on-line tools, including links to public geoscience, industry reports, and other data, and real-time mineral land tenure.

- GeoScience OnLine: Includes interactive maps of geology, geophysics, geochemistry, mineral occurrences, and mineral land tenure; gis.geosurv.gov.nl.ca
- GeoFiles database: A repository of documents about provincial geoscience including mineral-exploration assessment reports, reports and maps, university theses, books, and unpublished reports and maps.
www.nr.gov.nl.ca/nr/mines/geoscience/geofiles.html
- MIRIAD: Real-time claim staking; <https://www.claimstaking.gov.nl.ca/>

Major geoscience projects and partnerships

- Bedrock mapping in the Archean Ashuanipi Complex of western Labrador, and on the Bonavista Peninsula and in the Bay d'Espoir areas of Newfoundland.
- Surficial geology and till geochemistry studies in central Newfoundland, and assessment of coastlines vulnerable to erosion and flooding.
- Study of carbonate-hosted zinc deposits in western Newfoundland, gold metallogeny in central Newfoundland, uranium mineralization in the Central Mineral Belt of Labrador, and an examination of VMS deposits in central Newfoundland
- Geo-mapping for Energy and Minerals Phase 2 (GEM2): Hudson-Ungava surficial mapping and till sampling; and Core Zone -Tectonic Framework and Mineral Potential of Northern Quebec and Labrador.
- Newfoundland Ice Sheet Shelf project in collaboration with the University of Ulster, Marine Institute of Ireland and Memorial University.
- A study of the uplift history of the coastal margins of Newfoundland and Labrador in collaboration with the Geological Survey of Denmark and Greenland.



Key publications

Our publications are freely available on the Geological Survey website at

http://www.nr.gov.nl.ca/nr/mines/geoscience/reports_maps.html

- Current Research, an annual report highlighting Geological Survey field activities
- Geological Survey Review, an annual report produced for the Department's 'Open House'
- Exploration Highlights, an annual review of mineral exploration activity in the Province
- Airborne geophysical survey of the St. Alban's region, Newfoundland (NTS 1M/13 and parts of 1M/12, 1M/14, 11P/16 and 2D/04), Open File NFLD/3272.
- Geology of the Monkey Hill area, Labrador (NTS 13J/14), map 2016-15, scale 1:50,000. Open File 013J/14/0308.
- Geochemical data from high-grade iron-ore deposits and altered and unaltered iron formation in the Labrador trough (NTS 23J AND 23O), Open File LAB/1667
- Till geochemistry of eastern pond and Miguels lake (NTS map areas 2D/11, 12), Jeddore Lake (NTS Map Areas 1M/13, 2D/04 and 12A/01) and surrounding areas, Open File NFLD/3273

Local geoscience meetings

- Mineral Resources Review (November, St. John's)
- Baie Verte Mining Conference (June, Baie Verte)
- Geological Association of Canada (Newfoundland Section) (February, St. John's)

Other government sources of information on resource development

- Department of Natural Resources
<http://www.nr.gov.nl.ca/nr/>
- Explore Newfoundland and Labrador
<http://www.nr.gov.nl.ca/nr/mines/investments/investments.html>
- The Economic Review (2016)
http://www.fin.gov.nl.ca/fin/publications/fallupdates/2016_economic_review.pdf



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New Brunswick Geological Survey



The New Brunswick Geological Survey traces its origin to 1838, when Abraham Gesner was appointed as the first Provincial Geologist. The Survey has 16 permanent staff and is headquartered in Fredericton, with regional offices in Bathurst and Sussex. The province maintains two drill core repositories containing about 800,000 m of core derived from mineral exploration.

New Brunswick has a long history of mineral development and production. Beginning with coal mining in the 1600s, the province has produced base-metals (Zn-Pb-Ag-Cu) from volcanogenic massive sulphide deposits in the Bathurst Mining Camp, building stone, petroleum, potash, and gold. The province's efficient regulatory process serves to expedite both exploration plays and mine development.

Commodities produced

Major: Zinc, lead, and peat

Minor: Copper, bismuth, and silver

Potential: Manganese, copper, potash, tungsten, tin, molybdenum, gold, antimony, and indium; petroleum

Historic: Potash, tungsten, gold, antimony, coal, petroleum

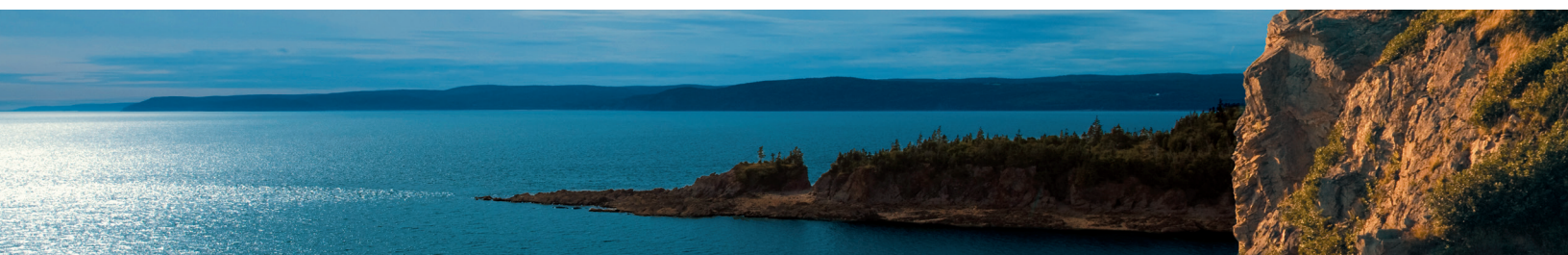


Web services

- NB e-CLAIMS: online acquisition of mineral exploration rights: <http://nbeclaims.gnb.ca/nbeclaims/>
- Provincial Bedrock Geology Maps at scales of 1:20,000, 1:50,000, and 1:1,00,000
http://www2.gnb.ca/content/gnb/en/departments/erd/energy/content/minerals/content/BedrockGeologyMaps_1-50-000.html
- Mineral Reports of Work: searchable database containing assessment reports from 1950 to the present
<http://dnr-mrn.gnb.ca/ParisWeb/AssessmentReportSearch.aspx>
- Geoscience Publication Search Tool: searchable database of all NB Government geoscience data
<http://dnr-mrn.gnb.ca/ParisWeb/PublicationSearch.aspx>
- Mineral Occurrence Database: more than 1500 metallic and non-metallic mineral occurrences
<http://dnr-mrn.gnb.ca/mineraloccurrence/>
- Industrial Minerals Database: more than 1000 industrial mineral occurrences
<http://www1.gnb.ca/0078/GeoscienceDatabase/IndustrialMinerals/IndMin-e.asp>
- New Brunswick Bedrock Lexicon: information on all formally defined geologic units in New Brunswick
http://dnr-mrn.gnb.ca/Lexicon/Lexicon/Lexicon_Search.aspx?lang=e
- NB Bibliography: reference list of all non-government published geoscience about New Brunswick
<http://www1.gnb.ca/0078/GeoscienceDatabase/Bibliography/Bibliography-e.asp>

Major geoscience projects and partnerships

- Collaborative geochronology of selected volcanic and intrusive rocks (GSC and NB Geological Survey)
- Collaborative work on Au in VMS deposits, granite-related polymetallic mineralization, till geochemistry, and lamprophyre dykes (University of New Brunswick)
- Quartz vein-hosted Au in northwest New Brunswick (St. Mary's University)
- Geochronological and isotopic investigations of selected intrusive rocks (Acadia University)
- Petroleum potential in the offshore-Northumberland Strait and Gulf of St. Lawrence (NB Geological Survey)
- Seismic monitoring (Geological Survey of Canada)



Key publications

- The Middle Paleozoic Rocks of Northern and Western New Brunswick, Canada; Memoir 4
- Follow-up till geochemical data for the Caledonia Highlands region of the Salmon River and Waterford areas (NTS 21 H/06 and 21 H/11), southern New Brunswick; OF 2017-1
- Compilation of Till Geochemical Survey Data for Northeastern New Brunswick (NTS 21P), Canada; OF 2017-2
- Historical Noranda-Falconbridge-Xstrata Digital Exploration Databases in New Brunswick; OF 2017-3
- Hydrothermal Fluid Evolution at the Maisie Gold Occurrence, Menneval, New Brunswick; GR 2017-1
- The Cambrian to Ordovician Saint John Group east of St. Martins, Fundy Coast Parkway, Saint John, New Brunswick; GR 2017-2
- “Gorges, Coasts”, “Mines and Quarries”; The scenic and economic geology of the Bay of Chaleur area; GR 2017-3
- Go West! Geology and mining reclamation, northern part of the Bathurst Mining Camp; GR 2017-4
- The Fundy Trail Parkway Geology and Scenic Coastal Drive, Bay of Fundy, Southern New Brunswick; GR 2017-5

Geoscience meeting

- New Brunswick Exploration, Mining and Petroleum Conference (November, Fredericton)

Other government sources of information on resource development

- Service New Brunswick: GeoNB
- Mineral Titles Online: NB e-CLAIMS



Contacts

Fredericton Office

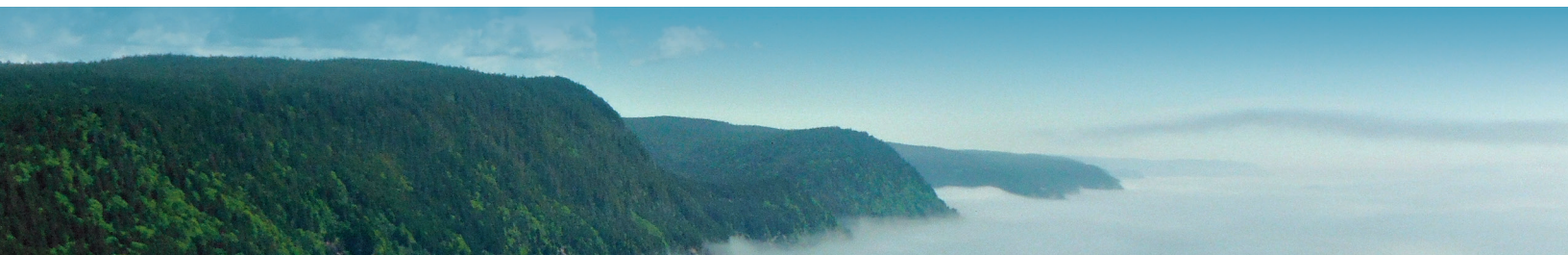
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Bathurst Office

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506-547-2070

Sussex Office

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Nova Scotia Geological Survey



Nova Scotia offers diverse geological environments with many underexplored mineral resource opportunities. We have an incentive program that helps fund grass roots to advanced exploration projects, and a staff of 20 geoscientists to assist companies and individuals with their exploration efforts.

Commodities produced

Major: Aggregate, gypsum, salt, limestone, coal

Minor: Silica sand, anhydrite, building stone

Potential: Gold, rare metals, tin, lead, zinc, graphite



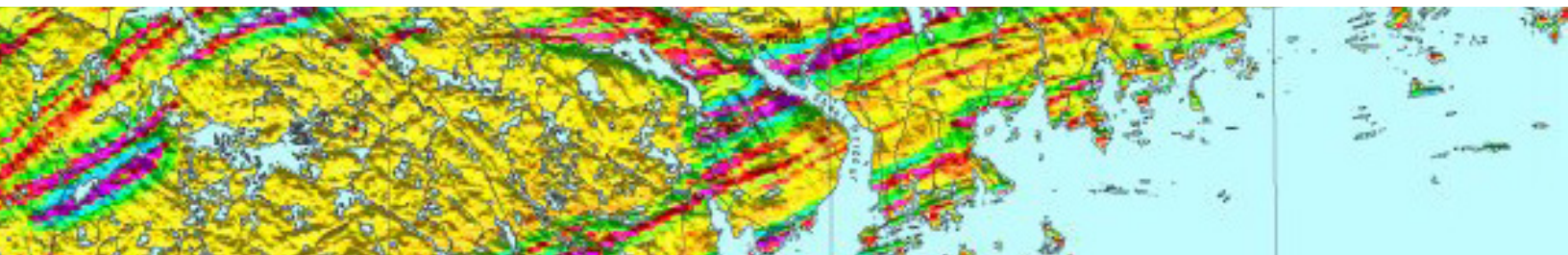
Web services

The Geoscience and Mines Branch provides internet access to its maps, data, and information through an online map gallery, downloadable GIS data products, searchable databases and online interactive map applications including

- NovaScan, a searchable database of geoscience maps, publications, and downloadable GIS datasets (<http://novascotia.ca/natr/meb/geoscience-online/about-novascan.asp>)
- Mineral Occurrence Database, a searchable database with over 2,900 metallic and industrial mineral occurrences (<http://novascotia.ca/natr/meb/geoscience-online/about-database-modb.asp>)
- Drillhole and Drill Core Database, a searchable database of more than 27,000 drill hole entries and a listing of stored cores stored (<http://novascotia.ca/natr/meb/geoscience-online/about-database-dcdh.asp>)
- Map Gallery, for downloading many of our maps (<http://novascotia.ca/natr/meb/geoscience-online/maps-gallery.asp>)
- Downloadable GIS Data, where more than 210 datasets can be downloaded, such as geological maps, geochemistry, and geophysical images in numerous GIS formats (<http://novascotia.ca/natr/meb/download/gis-data-maps.asp>)
- Interactive Maps provides access to all of our interactive maps to view, query and print GIS maps, databases and images (<http://novascotia.ca/natr/meb/geoscience-online/maps-interactive.asp>)
- NovaROC provides maps locating mineral tenures throughout the province and enables acquiring and maintaining mineral claims (<https://novaroc.novascotia.ca/novaroc/page/home.jsf>)
- Nova Scotia Geoscience Atlas, an interactive map for the exploration and mining industry that provides a single geographic compilation of important geoscience maps, databases, and images, and enables query-customized map printing (<https://fletcher.novascotia.ca/DNRViewer/?viewer=Geoscience>)

Major geoscience projects and partnerships

- Cape Breton Island Project: Detailed bedrock mapping, geochemical, isotopic, and geochronologic studies across numerous geological terranes to better assess the mineral potential of known Neoproterozoic to Silurian VMS and epithermal-Au occurrences, and post-orogenic Devonian porphyry-style mineralization
- Cobequid Highlands Project: Detailed bedrock mapping, geochemical, and geochronologic studies along the eastern margin of the Avalon terrane to better define new and significant potential for Neoproterozoic to Carboniferous VMS, epithermal-Au, granite-related Rare Earth Element and IOCG-style mineral deposits
- Southwest Nova Scotia Project: Deposit-scale bedrock research and till geochemical surveys to better assess mineral potential and improve exploration for Sn, Li, In, Au, and other metals related to Devonian granites in the Meguma terrane



Key publications

- Geoscience and Mines Branch Report of Activities 2016, Edited by E. W. MacDonald and D. R. MacDonald; Nova Scotia Department of Natural Resources; Report ME 2017-001
- Digital Product ME2, version 11, 2016: Nova Scotia mineral occurrence database, by M. J. O'Neill and J. C. Poole, ISN 18752
- Digital Product ME3, version 5, 2016: Nova Scotia drillhole database, by M. J. O'Neill and J. C. Poole, ISN 18535

Local geoscience meetings

- Atlantic Geoscience Society (AGS) Colloquium (location rotates among Maritime Provinces)
- Mining Society AGM (location varies in Nova Scotia)

Other government source of information on resource development

Nova Scotia Business Inc.

1800 Argyle Street, Suite 701

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<http://www.novascotiabusiness.com/en/home/default.aspx>



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Join our representatives at annual national meetings such as the Prospectors and Developers Association conference in Toronto (PDAC) and the Association for Mineral Exploration (AME) Mineral Exploration Roundup in Vancouver.

