

PROSPECTING ENVIRONMENTS LABRADOR



Prospective Environments

(based on principal commodity)

- Volcanic rock-hosted base metals (includes VMS, magmatic (komatiitic) and stockwork)
- Carbonate and sediment (SEDEX)-hosted base metals
- Sediment-hosted (SEDEX) mineralization
- Volcanic redbed (VRC) mineralization
- Precious metals
- Mafic rock-hosted magmatic mineralization
- Alkalic-peralkalic rock-hosted mineralization ± gold
- Volcanic and sediment-hosted uranium mineralization
- Porphyry-style molybdenum and uranium; precious and base metals
- Iron-Oxide-Copper-Gold
- Diamonds

Mineral Commodities

● Cu ± Zn ± Au (VMS)	● Ni-Cu-Co ± PGE; Cr (magmatic)
● Cu (VRC, redbed Cu)	● Ni-Cu; py and po (komatiitic)
● SEDEX	● Fe-Ti (magmatic)
● Zn-Pb (MVT, Irish-type)	○ Rare Metals (Zr, Y, Be, REE); and granophile element ± Au
● Stratiform Iron	● U
● Au	○ Polymetallic vein
● Mo-U (porphyry and related magmatic hydrothermal)	

● Unspecified mineral environment (py, po, etc.)
● Industrial Minerals

In some cases, a circle represents more than one occurrence
Names of producers and past producers shown in **bold red** (not an all inclusive list)

CHURCHILL PROVINCE

Lower Proterozoic, low-grade sedimentary and volcanic rocks of the Labrador Trough; reworked Archean rocks in the central area; high grade metasedimentary gneiss and intrusions along eastern margin; intruded by Mesoproterozoic anorthositic rocks

Statiform Fe

VMS

Mesothermal Au

Iron Formation Au

SEDEX

MVT

Magmatic Ni-Cu; PGE; Cr

Granophile Elements

Rare Metals

Diamonds

NAIN PROVINCE

Archean amphibolite- to granulite-facies granitoid gneiss interspersed with narrow supracrustal belts of pelitic-psammatic gneiss and mafic rocks; two greenstone belts occur in the south. Overlain unconformably by Paleoproterozoic sedimentary sequences, locally associated with mafic volcanics. Intruded by Mesoproterozoic mafic and felsic intrusions

VMS

Magmatic Ni-Cu; PGE; Cr

SEDEX

Mesothermal Au

Granophile Elements

Rare Metals

Industrial Minerals

Diamonds

MAKKOVIK PROVINCE

Reworked Archean granitoid gneiss of the southern Nain Province. Lower Proterozoic supracrustal clastic sedimentary and submarine basalt, and an eastern zone consisting of a polyphase granitoid batholith

Epithermal Au

Mesothermal Au

Fe-O-Cu-Au

SEDEX

Granophile Elements

(Mo, Sn, W)

Uranium

Rare Metals

Magmatic Fe-Ti

Cu, PGE, Au

Industrial Minerals

Diamonds

LABRADOR

Churchill Province

Nain Province

Makkovik Province

Grenville Province

Superior Province

SUPERIOR PROVINCE

Archean, granulite facies; magmatic ortho- and meta-sedimentary gneisses and lesser metavolcanic mafic rocks; magmatic tonalite

Mesothermal Au

Industrial Minerals

Diamonds

GRENVILLE PROVINCE

Lower to Middle Proterozoic high-grade metamorphic and associated plutonic rocks; tonalitic-granitoid orthogneiss, pelitic paragneiss, metagabbro, anorthosite and granitoids; paragneiss terranes

VMS

SEDEX

Magmatic Ni-Cu; PGE

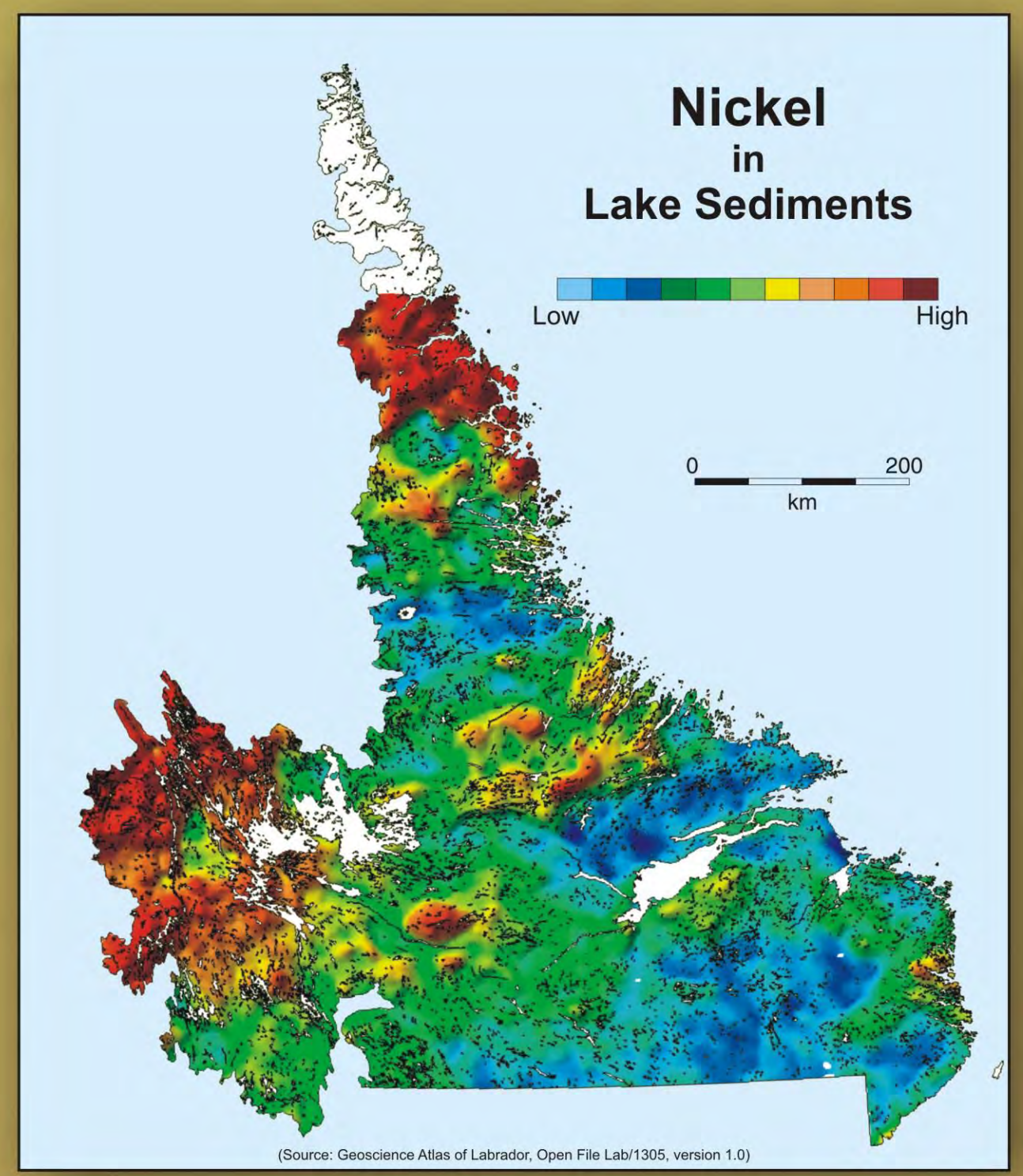
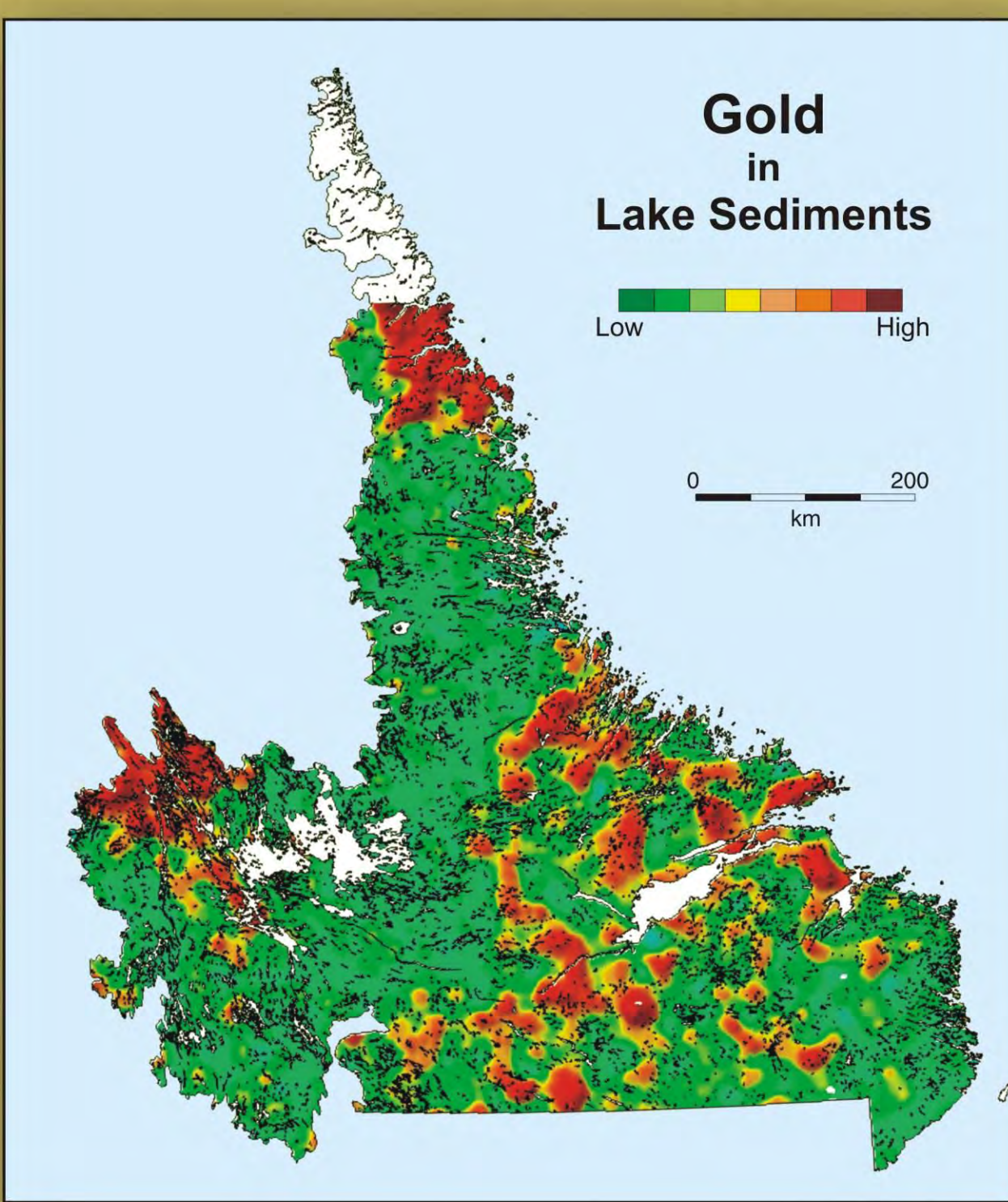
Magmatic Fe-Ti

Granophile Elements

Mesothermal Au

Epithermal Au

Industrial Minerals



This is a simplified representation of prospective terranes based on selected commodities. The lists of commodities and environments are non-inclusive; exclusion of geological belts need not imply a lack of prospectivity. This map does not represent a complete and accurate list of known mineral occurrences and deposits.