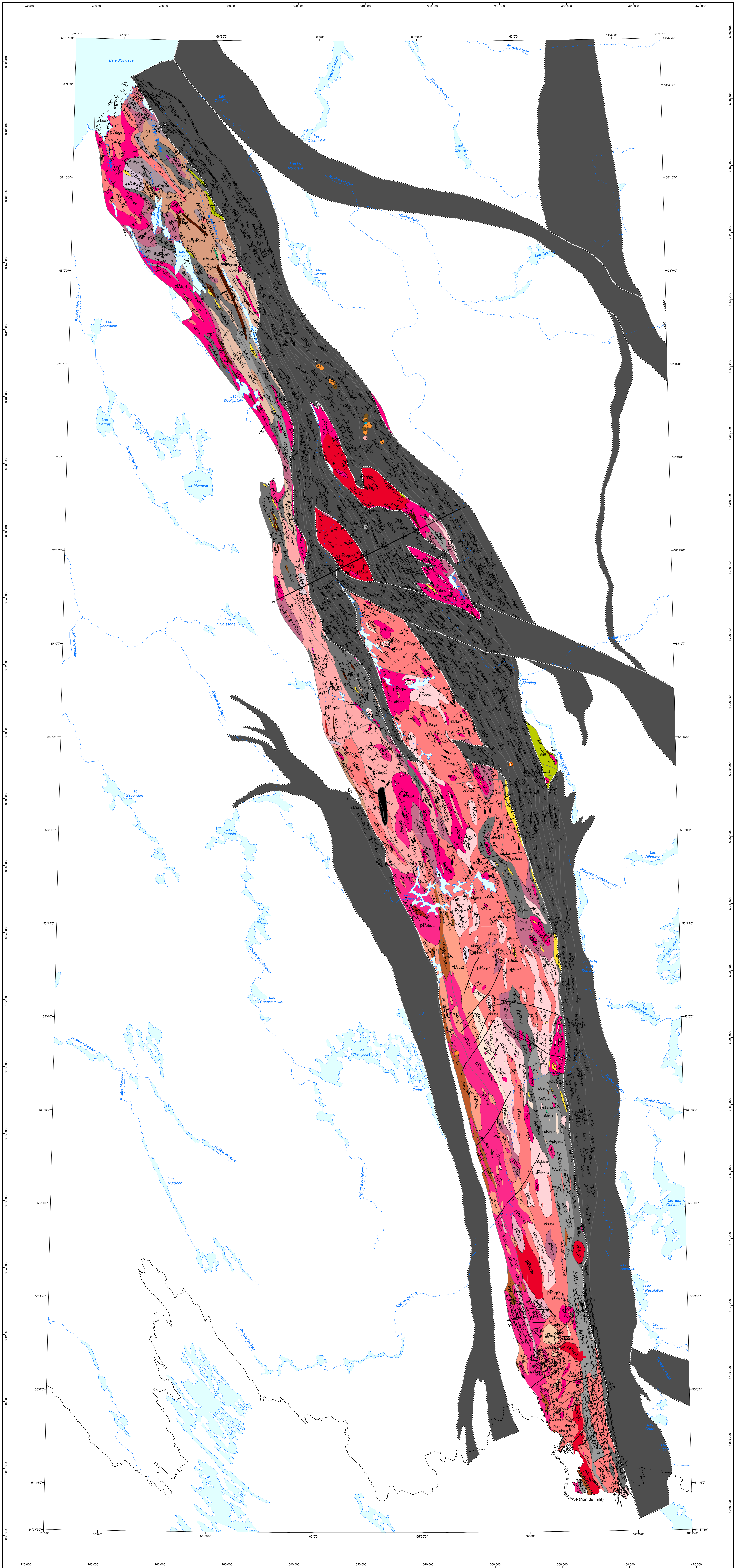


George lithotectonic domain, southeastern Churchill Province, Nunavik, Quebec, Canada: geological synthesis



STRATIGRAPHIC LEGEND

CHURCHILL PROVINCE

MESOPROTEROZOIC

Slippery Dykes (1268.5 ± 3.3 Ma, Corrigan, personal communication, 2016)

mE₁ Subophitic, massive and medium-grained olivine gabbro

Harry Dykes (1273.31 Ma, Cadman et al., 1993)

mE₂ Dyritic, massive and very fine to medium-grained olivine gabbro

Falcon Swarms

mE₃ Subophitic, massive and fine-grained olivine gabbro and olivine gabbroite

GEORGE LITHOTECTONIC DOMAIN

PALEOPROTEROZOIC

Fayot Suite (1815 ± 3 Ma, Corrigan et al., 2016)

pF₁ Massive melanocratic (metre) and leucocratic (volcanic) lempophyre

De Pau Charnockite Suite (1540-1611 Ma)

pF_{2a1} Gneissophyte, leucogabbroite, anorthosite and quartz anorthosite

pF_{2a2} Medium to coarse-grained orthite, orthite and plagioclase

pF_{2a3} Highly magnetic orthite, plagioclase and magnetite

pF_{2a4} Porphyrocrystic orthite and plagioclase

pF_{2a5} Medium to coarse-grained hypersthene orthite, plagioclase and magnetite

Non-ventral Pluton

pF_{2b} Homogeneous massive gabbroite

De Pau Granitic Suite (1602-1605 Ma)

pF_{3a1} Magnesian homogeneous granular biotite-diorite-granite hornblende syenite and monzonite

pF_{3a2} Biotite + hornblende monzonite; biotite granite; massive medium to coarse-grained monzonite

pF_{3a3} Heterogeneous granite containing numerous enclaves of gneiss, migmatite and diorite

pF_{3a4} Porphyrocrystic biotite + hornblende granodiorite and quartz monzonite

pF_{3a5} Porphyrocrystic biotite quartz granodiorite and quartz monzonite

pF_{3a6} Highly magnetic speckled porphyrocrystic biotite granite and quartz monzonite

pF_{3a7} Biotite + hornblende granodiorite and quartz monzonite

pF_{3a8} Fine-grained biotite-hornblende + chlorite-granite monzonite and monzonite

pF_{3a9} Homogeneous biotite-hornblende quartz diorite, tonalite and diorite

Merville Pluton

pF_{3b} Massive medium-grained biotite-hornblende diorite

NEOARCHAIC TO PALEOPROTEROZOIC

Quevener Complex (2687 ± 24 Ma, Corrigan et al., 2016)

nA₁ White tonalite and anorthitic granite

nA₂ Tonalite and anorthitic granite containing numerous diorite enclaves

nA₃ Tonalite and anorthitic granite rich in biotite schistomeres

nA₄ Heterogeneous banded migmatitic rocks having a stromatic or raft texture

NEOARCHAIC

Tullik Complex (2718-2400 Ma)

nA₅ Homogeneous metagabbroite and metagabbroite

nA₆ Homogeneous massive to foliated medium to coarse-grained amphibolized gabbro

nA₇ Granoblastic banded to mylonitic biotite + garnet + sillimanite + hornblende + pyroxene

nA₈ Biotite-muscovite + garnet + sillimanite + graphite schist

nA₉ Banded gneiss; or mylonitized metacarbonates, felsic volcanics and metabasalt

nA₁₀ Homogeneous banded to mylonitic fine to very fine-grained metabasalt

ARCHAIC TO PALEOPROTEROZOIC

Saint-Sauveur Complex (2463 ± 7 Ma, Davis et al., 2014)

A₁ Banded granite gneiss

A₂ Banded quartz monzonitic and quartz monzonitic gneiss

A₃ Trachytic gneiss

A₄ Homogeneous banded tonalite

A₅ Dioritic to quartz dioritic gneiss

PROSPECTIVE ZONE FOR MINERAL EXPLORATION

Agate

Copper

Rare earth elements

STRUCTURAL DOMAIN

Shear zone

SHOWING AND DEPOSIT

Metallic Substance

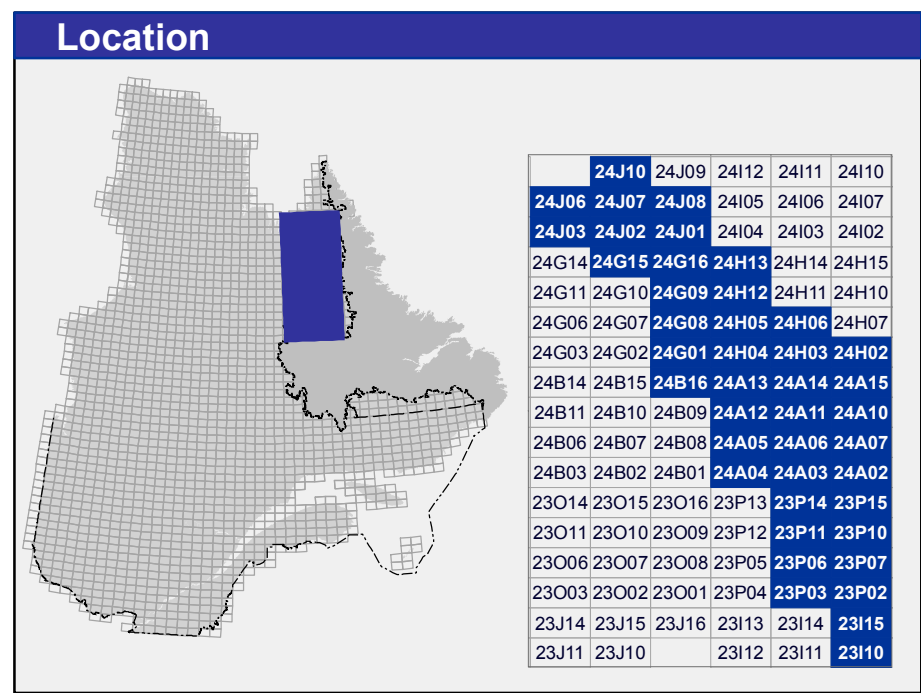
Agate Silver, copper, molybdenum

Copper Silver, copper, molybdenum

Rare earth elements Silver, copper, molybdenum, thorium, uranium

A Structural section

Symbol and abbreviations used on this map are described in the DV 2014-05 publication of the Ministère de l'Énergie et des Ressources naturelles.



Metadata	
Geodetic reference frame:	GRS 80 ellipsoid
Geodetic reference system:	NAD 83 compatible with the world geodetic system WGS 84
Cartographic projection:	Universal Transverse Mercator (UTM), zone 20
Original longitude:	65° 45'
Original latitude:	0°
Border	
-----	Quebec - Newfoundland and Labrador border (this boundary is not final)

Sources	
Data	
Base de données géographiques et administratives (BDGA, 16)	

Organization	
Ministère de l'Énergie et des Ressources naturelles	

Realization	
Géologie :	
Cadman, A.C. et al. (1993). Canadian Journal of Earth Sciences, volume 30	
Corrigan, D. et al. (2016). Géochronologie, volume 46	
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Singer, M. et al. (2013). RG 2013-04	
Jules Savard	
Technical assistance :	
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