

STRATIGRAPHIC LEGEND

ARCHEAN

ULTRAMAFIC TO INTERMEDIATE INTRUSIONS

Quillanaaraluk Suite

Aqluk1 Hornblende gabbroiorite, leucocratic to melanocratic, massive, medium to coarse-grained, cut by whitish granitic injections that produce a brecciated texture; contains 10 to 25% green hornblende phenocrysts from 1 to 4 cm long

Aqluk2 Ultramafic rocks composed of pyroxenite with minor hornblende and peridotite. These rocks are massive and homogeneous, fine to medium-grained, dark green to dark brown. The sub-unit also includes massive and homogeneous gabbroiorite. All lithologies are cut by whitish granitic injections that produce a brecciated texture; contains 10 to 25% green hornblende phenocrysts from 1 to 4 cm long

Cheminaud Suite

Acmd Gabbroiorite, hypersthene diorite and hypersthene quartz diorite, leucocratic to melanocratic, greenish grey to dark green, foliated, fine to medium-grained, exhibits a high magnetic susceptibility

MONZODIORITIC TO GRANITIC UNITS

Cornelle Suite

Acrn Granite with bluish quartz, whitish to sometimes slightly greenish, massive to foliated, heterogeneous grain size ranging from medium to coarse. Contains less than 2% mafic minerals (chlorite). Whitish tonalite visually similar to white granite. Contains abundant enclaves (10 to 25%) of various compositions, which give the unit a heterogeneous aspect

Gabillot Suite

Agab Monzodiorite, quartz monzodiorite, granodiorite and granite, characterized by a megaphytic texture defined by the presence of 10 to 80% K-feldspar phenocrysts from 1 to 5 cm long; these rocks exhibit a strong magnetic susceptibility

Volzel Suite

Avoi Biotite-chlorite granite and granodiorite, leucocratic, pinkish grey to light pink, contains burgundy plagioclase, massive to foliated, medium-grained, locally porphyritic

TONALITIC UNITS

Qilalugalik Suite

Aqil4 Biotite tonalite, reddish grey, foliated, fine to medium-grained, characterized by the presence of variable amounts of burgundy to bright red plagioclase. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect ("granitization"); contains enclaves and bands of volcano-sedimentary rocks

Aqil3 Enderbite and orthopyroxene quartz diorite, greenish, massive or foliated, medium to coarse-grained, with a high magnetic susceptibility. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts, giving the unit a heterogeneous aspect ("granitization"). The sub-unit also includes minor opalite and charnockite. The rocks host enclaves and bands of volcano-sedimentary rocks

Aqil1 Biotite-clinopyroxene-hornblende-magnetite tonalite and quartz diorite, purplish grey, foliated, fine to medium-grained, characterized by the presence of variable amounts of burgundy plagioclase. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect; contains enclaves and bands of volcano-sedimentary rocks

Qamanirjuag Suite

Aqam Biotite leucotonalite, light grey to slightly pinkish, foliated, fine to coarse-grained; the unit also includes minor mesocratic biotite-hornblende tonalite and quartz diorite (10 to 25% mafic minerals). Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect; the rocks host enclaves and bands of volcano-sedimentary rocks

Boizard Suite

Aboz Biotite ± hornblende tonalite, heterogeneous, foliated or banded with a gneissic aspect, fine to coarse-grained, contains abundant mafic to ultramafic enclaves, stretched and partially assimilated by the tonalite. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect; contains enclaves and bands of volcano-sedimentary rocks

VOLCANO-SEDIMENTARY UNITS

Innuksuac Complex

Ainn2 Migmatitic biotite ± orthopyroxene ± garnet paragneiss, banded, fine-grained with a granoblastic texture, medium grey with a typical yellowish grey to rusty brown weathered surface. Several intermediate layers, dark grey altered to brownish grey, fine to medium-grained with a granoblastic texture, massive to foliated, occasionally banded; a few folded horizons of silicate-facies banded iron formation

Ainn3 Amphibolite and mafic gneiss, greenish grey, massive to banded, fine to coarse-grained with a granoblastic texture; includes blackish grey ultramafic horizons, layers of migmatitic garnet paragneiss, oxide and silicate-facies iron formation horizons, layers of anthophyllite ± cordierite ± garnet schist, garnetite, conglomerate and rare felsic layers

This final map is the result of a geological survey conducted in 2001 by the following geologists: Martin Simard, Martin Parent, Robert Thériault, Pierre Nadeau, Julie Fredette, Marie-Line Tremblay, Truong-Xuan Huang, ministère des Ressources naturelles, de la Faune et des Parcs. Explanatory notes for this map are provided in publication RG 2003-03.

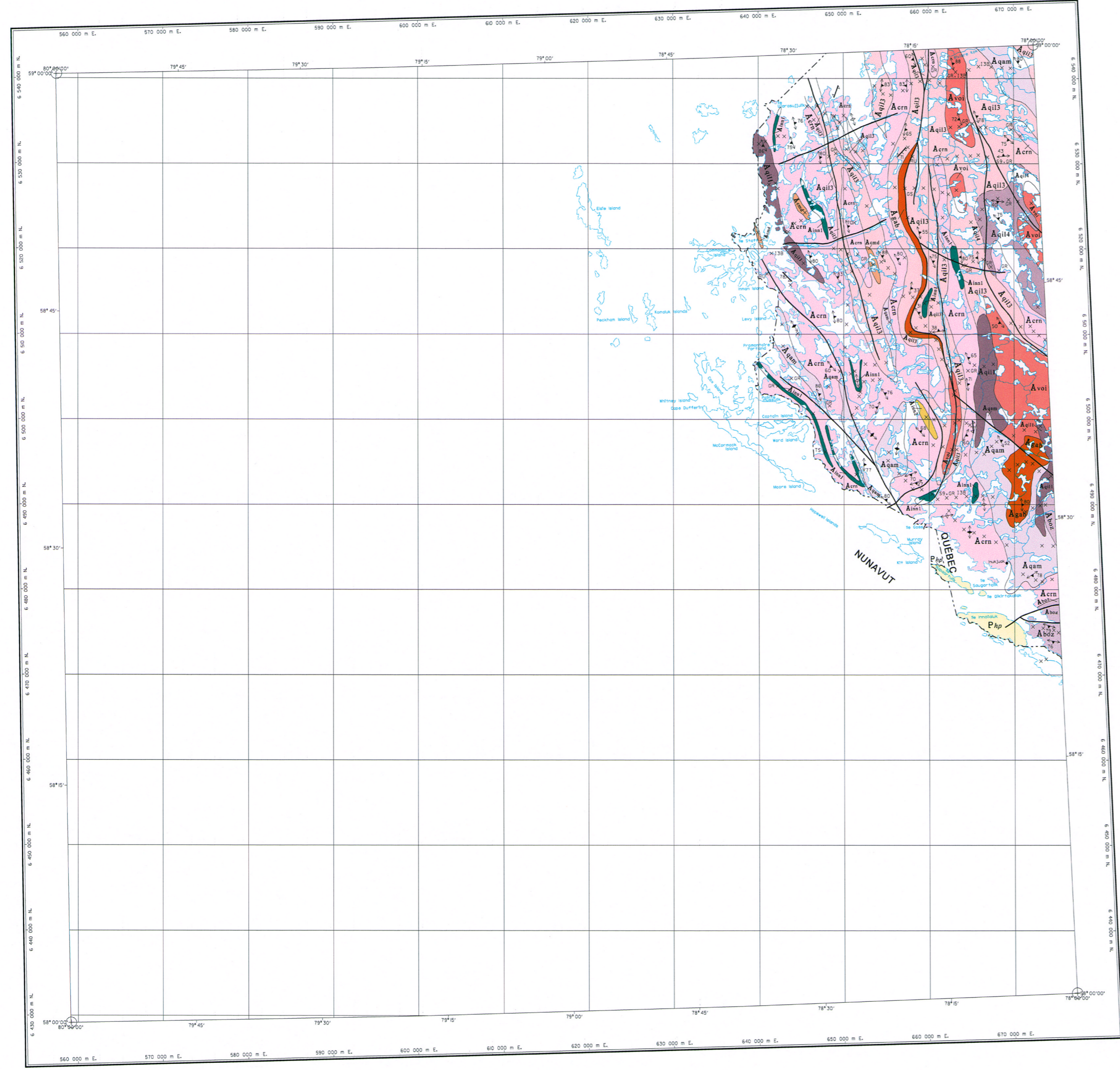
Technical assistance : Christian Garneau, Pascale Martel, Gertrude Janssen

We suggest references to this map be made in the following form: Simard, M., Parent, M., 2004 - Geology 1:250,000, 34K - RIVIÈRE INNUKSUAC. Ministère des Ressources naturelles, de la Faune et des Parcs, Québec; map RG 2003-03-C001.

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RIVIÈRE INNUKSUAC 34K

34 M	34 N	34 O
34 L	34 K	34 J
34 E	34 F	34 G



STRATIGRAPHIC LEGEND

PROTEROZOIC

Hopewell Group
P_{hp} Alternating beds of quartzite, quartzose sandstone, slaty schist, chert and collitic iron formation horizons, overlain by a thin bed of black slaty schist; a columnar basalt unit unconformably overlies the sedimentary sequence

ARCHEAN

ULTRAMAFIC TO INTERMEDIATE INTRUSIONS
Cheminade Suite
A_{cm} Gabbronorite, hypersthene diorite and hypersthene quartz diorite, leucocratic to melanocratic, greenish grey to dark green, foliated, fine to medium-grained, exhibits a high magnetic susceptibility

MONZODIORITIC TO GRANITIC UNITS
Cornelle Suite
A_{crn} Granite with bluish quartz, whitish to sometimes slightly greenish, massive to foliated, heterogeneous grain size ranging from medium to coarse. Contains less than 2% mafic minerals (chlorite). Whitish tonalite visually similar to white granite. Contains abundant enclaves (10 to 25%) of various compositions, which give the unit a heterogeneous aspect

Gabillot Suite
A_{gab} Monzodiorite, quartz monzodiorite, granodiorite and granite, characterized by a megaphytic texture defined by the presence of 10 to 50% K-feldspar phenocrysts from 1 to 5 cm long; these rocks exhibit a strong magnetic susceptibility

Volzei Suite
A_{voi} Biotite-chlorite granite and granodiorite, leucocratic, pinkish grey to light pink, contains burgundy plagioclase, massive to foliated, medium-grained, locally porphyritic

TONALITIC UNITS
Qilalugalik Suite
A_{qil4} Biotite tonalite, reddish grey, foliated, fine to medium-grained, characterized by the presence of variable amounts of burgundy to bright red plagioclase. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect ("granitization"); contains enclaves and bands of volcano-sedimentary rocks
A_{qil3} Enderbite and orthopyroxene quartz diorite, greenish, massive or foliated, medium to coarse-grained, with a high magnetic susceptibility. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts, giving the unit a heterogeneous aspect ("granitization"). The sub-unit also includes minor opalite and charnockite. The rocks host enclaves and bands of volcano-sedimentary rocks
A_{qil1} Biotite-clinopyroxene-hornblende-magnetite tonalite and quartz diorite, purplish grey, foliated, fine to medium-grained, characterized by the presence of variable amounts of burgundy plagioclase. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect; contains enclaves and bands of volcano-sedimentary rocks

Qamanirjuaq Suite
A_{qam} Biotite leucotonalite, light grey to slightly pinkish, foliated, fine to coarse-grained; the unit also includes minor mesocratic biotite-hornblende tonalite and quartz diorite (10 to 25% mafic minerals). Presence of granitic phases in pockets, layers and pods with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect; the rocks host enclaves and bands of volcano-sedimentary rocks

Boizard Suite
A_{boz} Biotite ± hornblende tonalite, heterogeneous, foliated or banded with a gneissic aspect, fine to coarse-grained, contains abundant mafic to ultramafic enclaves, stretched and partially assimilated by the tonalite. Presence of granitic phases in pockets, lenses or bands with diffuse and transitional contacts with the tonalitic phase, giving the unit a heterogeneous aspect; contains enclaves and bands of volcano-sedimentary rocks

VOLCANO-SEDIMENTARY UNITS
Innuksuac Complex
A_{inn2} Migmatitic biotite ± orthopyroxene ± garnet paragneiss, banded, fine-grained with a granoblastic texture, medium grey with a typical yellowish grey to rusty brown weathered surface. Several intermediate layers, dark grey altered to brownish grey, fine to medium-grained with a granoblastic texture, massive to foliated, occasionally banded; a few folded horizons of silicate-facies banded iron formation
A_{inn1} Amphibolite and mafic gneiss, greenish grey, massive to banded, fine to coarse-grained with a granoblastic texture; includes blackish grey ultramafic horizons, layers of migmatitic garnet paragneiss, oxide and silicate-facies iron formation horizons, layers of antophyllite ± cordierite ± garnet schist, garnetite, conglomerate and rare felsic layers

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 Technical assistance : Christian Garneau, Pascale Martel, Gertrude Janssen
 We suggest references to this map be made in the following form:
 Simard, M., Parent, M., 2004 - Geology 1:250,000, 34L - INUKJUAK, Ministère des Ressources naturelles, de la Faune et des Parcs, Québec, map RG 2003-03-C002.

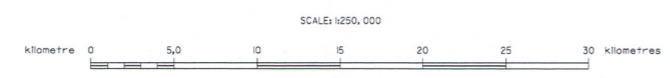
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INUKJUAK 34L

44 P	34 M	34 N
44 J	34 L	34 K
44 H	34 E	34 F

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Geoscience compilation - Geology 1:250,000

34L - INUKJUAK

Universal Transverse Mercator (UTM) Projection, Zone 17
 Angle of grid relative to true north: +43.68°
 Reference ellipsoid: GRS80
 Geodetic reference system: NAD83
 Marker indicating the location of the map sheet in the NAD27 grid system

RG 2003-03-C002
 Date of compilation: March 2004

Geoscience compilation - Geology 1:250,000
 Codes and symbols used for this map comply with the general legend for geological maps (publication MB 96-28)