



STRATIGRAPHIC LEGEND

PALEOPROTEROZOIC	
<b>Kogaluc River Dykes</b>	
pProg	Mafic dyke, heterogeneous, brecciated, aphanitic matrix, contains abundant quartzfeldspathic xenoliths and rounded vesicles; dark brown to rusty brown
pPay	Diabase dyke, homogeneous, massive, strongly magnetic, fine-grained to aphanitic, bluish grey in fresh surface; greenish brown in weathered surface
Klotz Dykes (U/Pb age of ~2209 Ma, Buchan et al., 1998)	
pKtz	Gabbro dyke, homogeneous, massive, ophitic texture, medium to coarse-grained; light medium green
ARCHEAN	
<b>Lac Tasat Syenite (Asts)</b>	
Asts	Nepheline syenite : also includes aegirine-augite essexite (U/Pb zircon age of 2643.4 ± 7.6 Ma)
<b>Lac Minto Suite (Amin)</b>	
Am5	Enderbite : foliated, leucocratic, medium to coarse-grained, also includes coarse-grained opdalite and charnockite, contains 5-25 % enclaves of mafic rock, diorite and paragneiss, biotite schlieren; golden brown
Am2	Opdalite and mangerite (unsubdivided) : with 10-40 % biotite + orthopyroxene + clinopyroxene + hornblende + magnetite, leucocratic to mesocratic, foliated, medium to coarse-grained, generally homogeneous, may contain up to 25 % enclaves of diorite and paragneiss; light grey-green
Am1	Biotite-orthopyroxene diastite : granitic to locally tonalitic composition, with biotite + orthopyroxene ± garnet + clinopyroxene, foliated, heterogeneous, heterograniular, contains enclaves of paragneiss, diorite and gabbro, biotite schlieren, greenish brown
<b>Le Roy Complex (Aroy)</b>	
Aroy4	Granite : contains less than 20 % biotite + epidote + hornblende + clinopyroxene, foliated to massive, leucocratic to holocrystalline, medium to coarse-grained, locally contains pegmatitic phases and biotite schlieren; light pink
Aroy3	Garnet-cordierite-sillimanite diastite : granitic to locally tonalitic neosome, contains enclaves and restites of biotite-garnet-cordierite-sillimanite paragneiss, heterogeneous, wavy foliation, locally mesocratic, heterograniular, biotite schlieren and aggregates; yellowish grey to rusty brown (U/Pb zircon age of 2698 ± 11 Ma and 2769 ± 6 ± 4 Ma)
Aroy2	Heterogeneous enderbite : foliated, contains 10-20 % coarse-grained opdalite mobilize and 20-50 % medium-grained granodiorite, as well as mafic and intermediate enclaves; golden brown
<b>Qallugualik Suite (Aql)</b>	
Aql3	Heterogeneous enderbite : foliated, leucocratic, medium-grained, contains abundant enclaves of diorite and mafic minerals; includes granodiorite and local mafic mineral schlieren; golden brown
<b>MacMahon Suite (Acmm)</b>	
Acmm6	Opdalite, mangerite and charnockite (unsubdivided) : with 10-30 % biotite + orthopyroxene + clinopyroxene, massive to foliated, medium to coarse-grained, commonly contains K-feldspar phenocrysts (up to 2 cm long); yellowish brown (U/Pb zircon age of 2717 ± 10 Ma)
Acmm4	Orthopyroxene-rich enderbite : with 5-35 % biotite + orthopyroxene ± clinopyroxene ± hornblende ± magnetite, leucocratic to mesocratic, massive to strongly foliated, medium to fine-grained, equigranular; golden brown (U/Pb zircon age of 2728 ± 5.5 Ma)
Acmm3	Orthopyroxene-bearing diorite to monzonodiorite (unsubdivided) : with hornblende + orthopyroxene + clinopyroxene + biotite + magnetite, foliated, fine to medium-grained; greenish grey to dark grey-blue
Acmm2	Gabbro to eclogite (unsubdivided) : with biotite + hornblende + magnetite, melanocratic to leucocratic, homogeneous, massive to foliated, medium to fine-grained, also includes pyroxenite and peridotite; dark green to greenish brown (U/Pb zircon age of 2723 ± 2 Ma)
Acmm1	Ultramafic plutonic rock (unsubdivided) : includes pyroxenite, peridotite, dunite, hornblende and serpentinite, occurring in lenticular bodies; dark green to black in fresh surface, buff brown in weathered surface
<b>La Chevrotière Suite (Alev)</b>	
Alev3	Granodiorite : with biotite ± magnetite ± hornblende ± epidote ± titanite, leucocratic, homogeneous, massive to foliated, medium to coarse-grained, weakly magnetic; reddish to whitish grey
Alev2	Granite : with biotite ± magnetite ± hornblende ± titanite, homogeneous, foliated to massive, coarse-grained, equigranular; pinkish white (U/Pb zircon age of 2723 ± 2 Ma)
Alev1	Porphritic monogranoite, granodiorite to quartz monzonite (unsubdivided) : with biotite ± hornblende ± clinopyroxene + titanite + magnetite, homogeneous, foliated porphyritic to megacratic with K-feldspar phenocrysts up to 10 cm long; pink to reddish grey (U/Pb zircon age of 2732 ± 4 ± 2 Ma)
<b>Chatelein Suite (Achl)</b>	
Achl	Granitized granodiorite to tonalite (unsubdivided) : with hornblende + clinopyroxene ± biotite ± magnetite, homogeneous, weakly foliated, medium-grained, burgundy plagioclase, clinopyroxene cores in hornblende grains, contains enclaves of pyroxenite, gabbro and diorite; purple to reddish grey (U/Pb zircon ages of 2760.3 ± 4 Ma and 2723 ± 18 Ma)
<b>Lac Calme Suite (Acim)</b>	
Acim2	Ultramafic rocks (unsubdivided) : includes pyroxenite, websterite, hornblendite, melanocratic to holomelanocratic, homogeneous, massive to foliated; dark green to dark brown, shows evidence of local brecciation by mafic rocks
Acim1	Mafic rocks (unsubdivided) : includes diorite to quartz diorite and minor gabbro, with hornblende + biotite + magnetite + clinopyroxene, mesocratic to melanocratic, homogeneous, granoblastic, medium-grained, massive; medium grey
<b>Keklattuuq Suite (Akkk)</b>	
Akk3	Heterogeneous tonalite : with biotite + hornblende + magnetite ± clinopyroxene, heterogeneous, injected and interdigitated with granodiorite and granite, wavy foliation, gneissic to diatexitic aspect, contains enclaves of paragneiss, mafic to intermediate gneiss, gabbronorite, ultramafic rock and iron formation; dark grey to pink
Akk2	Granitized tonalite : with biotite + hornblende + epidote ± titanite ± allanite, leucocratic, foliated, fine to medium-grained, contains injections of hololeucocratic granite and granitic pegmatite, derived from the granitization of Akkk1; light grey to pinkish grey
Akk1	Homogeneous tonalite : with biotite + hornblende + epidote ± titanite ± allanite, leucocratic, homogeneous, foliated, fine to medium-grained; light grey to dark grey (U/Pb zircon age of 2740 ± 4 Ma)
<b>Rochefer Suite (Arot)</b>	
Arot3	Granitized tonalite : with biotite + hornblende + epidote ± titanite ± allanite, leucocratic, foliated to weakly foliated, fine to medium-grained, contains injections of hololeucocratic granite and granitic pegmatite, derived from the granitization of Akkk1; light grey to pinkish grey
Arot2	Heterogeneous tonalite : with hornblende + biotite + epidote ± titanite ± allanite, contains abundant enclaves of mafic gneiss and amphibole (assimilation of metabasalt); also includes homogeneous and foliated tonalite, contains granitic injections, pinkish grey
Arot1	Homogeneous tonalite to trondhjemite (unsubdivided) : with 5-25 % biotite + hornblende ± magnetite ± epidote ± allanite, leucocratic to mesocratic, homogeneous, massive to banded, may contain intermediate to mafic allanite; mesocratic medium-grained faces, light grey to dark grey (U/Pb zircon ages of 2648 ± 11 Ma and 2769 ± 6 ± 4 Ma); leucocratic coarse-grained faces; greyish white (U/Pb zircon ages of 2610 ± 2.2 Ma and 2757 ± 7 ± 4.3 Ma)
<b>Mézard Complex (Amex)</b>	
Amcz2	Diatexitic quartzfeldspathic paragneiss (unsubdivided) : quartz + plagioclase + biotite + garnet + cordierite ± sillimanite + staurolite; contains 25 to 75 % quartzfeldspathic leucosome with garnet + orthopyroxene porphyroblasts; heterogeneous, leucocratic to mesocratic and coarse-grained (metapelitic), or more rarely, homogeneous, melanocratic and fine-grained (psammite); also includes iron formation; rusty brown
Amcz3	Pegmatic granite with biotite + tourmaline ± muscovite ± garnet, heterograniular, hololeucocratic; white to light pink
Amcz1	Metavolcanic rocks (undifferentiated) : mafic to locally felsic metavolcanic rocks, including mafic gneiss, amphibole, mafic schist, basalt, mafic and intermediate tuff, pillow and plagioclase-phryic andesite, dioritic sill, rhyolite, rhythmic quartz-eye tuff, interdigitated with metasedimentary rocks
<b>Kogaluc Complex (Akog)</b>	
Akog2	Metasedimentary rocks : sandstone, siltstone, quartzite, argillite, biotite paragneiss, metamorphosed to the amphibolite and granulite facies, locally includes silicate-facies iron formation
Akog1	Metavolcanic rocks (undifferentiated) : mafic, intermediate and felsic volcanic rocks, including mafic gneiss, amphibole, mafic schist, basalt, mafic and intermediate tuff, pillow and plagioclase-phryic andesite, dioritic sill, rhythmic quartz-eye tuff, interdigitated with metasedimentary rocks
Akogla	Intermediate to felsic metavolcanic rocks (undifferentiated) : including intermediate tuff, pillow and plagioclase-phryic andesite, rhyolite, rhythmic quartz-eye tuff.
<b>Qalluviartuuq-Payne Complex (Aqlp)</b>	
Aqlp3	Diorite - hornblende + plagioclase + quartz + biotite + clinopyroxene + orthopyroxene, homogeneous, foliated, medium-grained, locally plagioclase-phryic, occurring as doleritic sills or dykes associated with mafic to felsic volcanic rocks; may also correspond to meta-andestes; dark grey
Aqlp2	Migmatitic quartzfeldspathic paragneiss (unsubdivided) : quartz + plagioclase + biotite + garnet + cordierite ± sillimanite + staurolite; contains 5 to 50 % quartzfeldspathic leucosome with garnet porphyroblasts; heterogeneous, leucocratic to mesocratic and coarse-grained (metapelitic) or more rarely, homogeneous, melanocratic and fine-grained (psammite); also includes iron formation; rusty brown
Aqlp1a	Conglomerate (unsubdivided) : polymictic conglomerate with clasts and blocks of tonalite and volcanic rock, locally monolithic conglomerate with tonalite blocks, sandy-pebbly matrix, also includes sandstone and metapelitic beds, foliated to mylonitic
Aqlp1b	Metavolcanic rocks (undifferentiated) : essentially mafic to intermediate volcanic rocks with hornblende + plagioclase + clinopyroxene + orthopyroxene + garnet, fine to medium-grained, including mafic gneiss, amphibolite, mafic schist, basalt, mafic and intermediate tuff, pillow and plagioclase-phryic andesite, dioritic horizon; also includes rhytholite, rhythmic quartz-eye tuff, interdigitated with sedimentary rocks
Aqlp1c	Ultramafic metavolcanic rocks : with amphibole (actinolite-tremolite-cummingtonite) + serpentine + chlorite + leucovane + magnetite + spinel, homogeneous, weakly foliated, medium-grained; dark green to black in fresh surface; buff brown in weathered surface
<b>LAC ANUC 340</b>	

Map RG 2003-05-C001 is an image produced with digital data extracted from Québec's geomining information system (SIGEOM) as of August 2005.

Geomatic products corresponding to NTS sheet 340 are available via the following website:

[www.mrr.gov.qc.ca/products-services/mines.jsp](http://www.mrr.gov.qc.ca/products-services/mines.jsp) under the tab e-SIGEOM atlas.

The high density of data on the map makes it impossible to reproduce outcrops examined by Percival, J.A., Skulski, T., Card, K.D., Lin, S., GSC, 1995, Open File 3112, cited in reference. These outcrops appear on the SIGEOM map however.

This digital map shows the results of a geological survey conducted in 2001 by the following geologists: Alain Berclaz (team leader), Charles Maurice, Chantal Blouin (ministère des Ressources naturelles et de la Faune), Julie Davy, Karine Duguay, François Leclerc, Ehounam N'Dha (UGAC), Christine Hogue (U. Laval) and a compilation of data derived from publications cited in reference.

Explanatory notes for this map are provided in publication number RG 2003-05.

References

- Cattelan, S., Heldens, J., 1993, GM 52254
- Francoeur, G., Comeau, M., 1999, GM 56437
- Gagnon, G., 2001, GM 52257
- Percival, J.A., Skulski, T., Card, K.D., Lin, S., GSC, 1995, Open File 3112

Compilation and interpretation

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Technical assistance

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We suggest reference to this map be made in the following form:  
Berclaz, A., Maurice, C., Shama, K.N.M., 2005, Geology 1:250,000 - LAC ANUC, Ministère des Ressources naturelles et de la Faune, Québec, map RG 2003-05-C001.

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35 C	35 B	35 A
34 N	34 O	34 P
34 K	34 J	34 I

Canada  
Québec

SIGEOM was initially developed within the scope of the Canada-Québec Mineral Development Agreement (1992-1998).

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Geoscience compilation - Geology 1:250 000

Geological map

SCALE 1:250 000  
kilometre 0 5.0 10 15 20 25 30 kilometres

Projection Mercator transverse universelle (UTM), fuseau 18  
angle du quadrilatère par rapport au nord réel: 0° 0' vers l'est  
ellipse de référence: GR80  
système de référence géodésique: NAD27

+ indique la position du feuillet dans le réseau géodésique NAD27.

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