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Geologic maps of part of St. Lawrence County, New York, by A.F. Boudin and B.F. Loomis.

EXPLANATION

Revised Apr 20 1954

Qw

Glacio-lacustrine and glacio-fluvial water-laid deposits predominant; pitted sand plains, delta deposits, kame belts, etc. Mapped only where bedrock cannot be reasonably inferred.

Qd

Drift; predominantly ground moraine, locally some water-laid deposits. Mapped only where bedrock cannot be reasonably inferred.

Sp

Potsdam formation, sandstone and conglomerate.

gagn  
gagnb  
gas gag  
gag

Alaskite gneiss, gagn; with associated biotite granite gneiss (contaminated facies of alaskite)

gagnb; with associated metasedimentary layers, gas; with garnet from contamination gag; garnet-quartz feldspar rock in aureole of alaskite granite gneiss, gag.

ga  
gaa

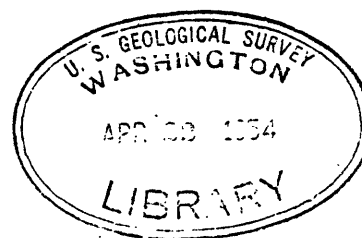
Alaskite, ga; with subordinate layers of amphibolite, gaa

gao

Albite-oligoclase granite gneiss.

gm  
gms  
gma

Microcline granite gneiss, gm; commonly sillimanitic, locally garnetiferous, associated with local metasedimentary layers, gms; predominantly hornblendic and with local amphibolite layers, in part pyroxenic, gma; Local alaskite layers.



QUATERNARY

CAMBRIAN

PRE-CAMBRIAN

Granite and Granite Gneiss Series

54-42

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ghgn,  
ghgnc, ghsy

Hornblende-microcline-oligoclase granite gneiss, ghgn; with contamination from metasedimentary material and amphibolite, ghgnc or ghsy (a syenitic development).

gpb

Porphyritic biotite granite gneiss, in part with augen structure.

gh ghs  
gha

Hornblende-microperthite granite, gh; with subordinate associated layers of amphibolite, gha; with associated metasedimentary layers, ghs.

sgp

Hornblende granite gneiss, mostly with phacoidal structure, locally coarse even-grained.

shq

Hornblende quartz syenite gneiss.

sphg

Pyroxene quartz syenite gneiss with interlayers of hornblende quartz syenite gneiss and hornblende granite gneiss.

spq

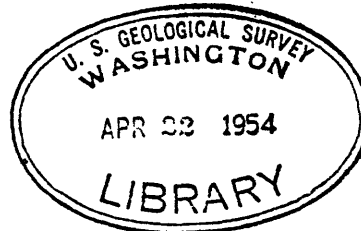
Pyroxene quartz syenite gneiss.

sp

Pyroxene syenite gneiss.

spp

Pyroxene syenite gneiss with interlayers of shonkinite gneiss and feldspathic ultramafic ilmenite-magnetic-pyroxene gneiss.



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sb

Biotite (and hornblende) syenite gneiss.

spqc

Gneiss Series,  
Tupper Complex

Pyroxene quartz syenite; predominantly the mafic minerals include ferroaugite, hypersthene and ferrohastingsite, but in northern part of Inlet sheet they are hedenbergite and fayalite.

spc

Pyroxene syenite gneiss; mafic minerals include ferroaugite, hypersthene, and ferrohastingsite.

di

Diorite gneiss.

gb gba

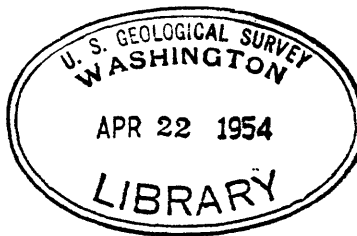
Am

Metagabbro gneiss, gb; anorthositic gabbro and anorthositic gabbro gneiss, gba.

Amphibolite; largely with granitic veinings and sheets.

ms

Metasediments, undifferentiated, of the Grenville series, and related migmatites with associated sheets of granite gneiss. Pyroxenic, hornblendic and biotitic gneisses; quartzite and feldspathic quartzite; quartz-feldspar granulite, amphibolite; skarn and local limestone lenses. The granite gneiss sheets are commonly the alaskite or microcline-rich facies.



RE-CAMERIAN

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msq mspq

Pyroxenic and calcareous quartz-feldspar gneisses, fine grained quartz-feldspar granulite and quartzites with inter-calated beds of limestone, pyroxene granulite tremolite schist; thin-layered quartzite and limestone, and locally migmatitic biotitic gneiss; predominantly pyroxene quartzite, mspq.

msam

Largely amphibolite, with granitic veinings and local skarn lenses and biotitic gneisses.

msg

Garnet-biotite migmatitic gneiss and biotite-quartz-feldspar gneiss, each with interlayers of amphibolite.

msl mslq  
msk

Marble, locally with beds of pyroxene granulite, msl; pyroxene and pyroxene-garnet skarn, msk; marble with local white quartzite beds, diopside granulite and some tremolite schist and biotitic gneiss, mslq.

Metasedimentary Rocks of the Greenville Series

*Symbols for  
structural features, etc?*

