



LEGEND*

PHANEROZOIC

CENOZOIC

QUATERNARY

MESOZOIC

PALEOZOIC

ORDOVICIAN

82 Limestones:
fine grained, yellow-buff, thin to medium bedded; bioclastic with shell and crinoid fragments; fairly burrow mottled

PRECAMBRIAN

PROTEROZOIC

29 Late Mafic Intrusive Rocks:
29a Gabbrro dike (Molson Swarm?)

INTRUSIVE CONTACT

ARCHEAN

NEOARCHEAN (2.5 to 2.9 Ga)

Hornblende Suite

16 Hornblende Tonalite to Granite:
16a Unsubdivided
16b Tonalite to quartz diorite to granodiorite; coarse grained; granular; weakly feldspar megacrystic; white to grey; 10 to 30% hornblende and biotite, leucoid mafic inclusions
16c K feldspar megacrystic; granodiorite to granite; grey to pink; >5% hornblende and biotite; leucoid mafic inclusions

INTRUSIVE CONTACT

Granitic Suite

15 Biotite Granodiorite to Granite:
15a Leucocratic; pink to white; inequigranular; <5% biotite
15b Mesocratic; pink to white; inequigranular; >5% biotite
15c Dikes
15f Feldspar megacrystic
15g Gneissic; gradational to gneissic suite
15p Pegmatic
15t Aplitic

INTRUSIVE CONTACT

Sanukitoid Suite

14 Intermediate to Felsic, Quartz Undersaturated to Saturated Intrusive Rocks:
14a Diorite, quartz diorite; typically 20 to 40% amphibole, clinopyroxene and biotite; medium to coarse grained; grey to pink; ultramafic inclusions
14b Monzonitic, quartz monzonitic; typically 10 to 30% amphibole, clinopyroxene and biotite; medium to coarse grained; pink to red; ultramafic inclusions
14c Tonalite to granodiorite; typically 10 to 30% amphibole, biotite and clinopyroxene; grey; medium to coarse grained; ultramafic inclusions
14d Granodiorite to granite; typically 5 to 10% biotite and amphibole; pink to red; coarse grained and weakly K feldspar megacrystic; ultramafic inclusions

INTRUSIVE CONTACT

Peraluminous (S-type) Suite

13 Two-Mica Granite to Granodiorite:
13a White to pink; coarse grained to pegmatic; may contain biotite, muscovite, garnet, tourmaline, apatite, cordierite, massive to mylonitic

INTRUSIVE CONTACT

MESOARCHEAN TO NEOARCHEAN (2.5 to 3.4 Ga)

Tonalitic Suite

12 Biotite Tonalite to Granodiorite:
12a Unsubdivided
12b Leucocratic (<7% biotite); typically light grey; medium grained; foliated; amphibole inclusions
12c Mesocratic (7 to 10% biotite); typically medium grey; medium grained and foliated; amphibole inclusions
12g Weakly gneissic; gradational to gneissic suite
12p Feldspar megacrystic

INTRUSIVE CONTACT

Gneissic Suite

11 Hornblende-Biotite Tonalite to Granodiorite Gneiss:
11b Mafic; grey to dark grey; >10% mafic minerals; typically has mafic inclusions and/or pronounced continuous layers; foliated

INTRUSIVE CONTACT

Mafic Suite

10 Mafic and Ultramafic Intrusive Rocks:
10a Amphibolite; black; fine to medium grained; foliated; occurs as inclusions or dikes
10g Gabbrro, diorite
10h Hornblende, diorite; black; coarse grained, massive

INTRUSIVE CONTACT

7 Metasedimentary Rocks:
7a Unsubdivided

5 Mafic Metavolcanic Rocks (>35% mafic minerals):
5a Unsubdivided
5g Gneissic
5m Massive flow

*This legend is common to several map areas. All codes may not appear on an individual map.

Ontario

Ontario Geological Survey
P.3189

PRECAMBRIAN GEOLOGY
PASQUATCHAI RIVER
AREA

Scale 1:50 000

1000 m 0 1 2 km

NTS Reference 53 J14

©Queen's Printer for Ontario, 1999
This map is published with the permission of the Senior Manager, Precambrian Geoscience Section, Ontario Geological Survey.

Location Map 1 cm equals 10 km

SYMBOLS*

*The positions of all boundaries and surveyed lines are approximate.

SOURCES OF INFORMATION

Base map derived from map 53 J14 of the National Topographic System, scale 1:50 000, with information added by the authors.

GSC-ODM aeromagnetic map 7279G (Thorne River) 1967, scale 1:253 440.

OGS Map 2541, Bedrock Geology of Ontario, northern sheet (1991), scale 1:1 000 000.

In 1998, Magnetic North was 2° 29' west of True North, increasing 3.9' annually at the centre of the Pasquatchai River area.

Geology not tied to survey lines.

Information on exploration activity in this area is available in digital form and as hard copy from the Ministry's Earth Resources and Land Information System (ERLIS).

CREDITS

Geology and compilation by D. Stone, J. Hallé, M. Lange and E. Chaloux, 1998.

To enable the rapid dissemination of information, this map has not received a technical edit. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Users should verify critical information.

Issued 1999.

Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form:

Stone, D., Hallé, J., Lange, M. and Chaloux, E. 1999. Precambrian geology, Pasquatchai River area, Ontario Geological Survey, Map P.3189, scale 1:50 000.

Lithologic and structural information for this map is recorded in digital form in Fieldlog version 3.0.