



**LEGEND**

**DEVONO-CARBONIFEROUS**

**SOUTH MOUNTAIN BATHOLITH**

**WESTFIELD LEUCOMONZOGRANITE:** light grey to buff (locally greenish), fine- to coarse-grained, equigranular to porphyritic; 4-6% biotite\*, trace-2% muscovite\*, 1-3% cordierite\*; xenoliths are rare†.

as above with consistently medium-grained, equigranular texture.

**DAVIS LAKE LEUCOMONZOGRANITE:** whitish-grey to locally blue-grey, medium- to coarse-grained, highly megacrystic (20-30%); 6-8%\* biotite, trace-2% muscovite, 1-3% cordierite; xenoliths are rare.

**KEJIMIKUJIK MONZOGRANITE:** medium grey, fine- to coarse-grained, megacrystic (10%); 11-16%\* biotite, trace-1% muscovite, trace-1% cordierite (locally 2-3%); xenoliths are common.

**LITTLE ROUND LAKE MONZOGRANITE:** medium grey, medium- to coarse-grained, megacrystic (10-15%); 8-12%\* biotite, trace-1% muscovite, trace-1% cordierite; xenoliths are common.

**SCRAG LAKE MONZOGRANITE:** medium grey, medium- to coarse-grained, megacrystic (10%); 14-18%\* biotite, trace muscovite, trace cordierite; xenoliths are common.

**UNDIFFERENTIATED MAFIC GRANITIODS:** fine- to medium-grained, mafic granitoid; abundant xenoliths; probably contaminated (Meguma) Kejimikujik monzogranite.

**CAMBRO-ORDOVICIAN**

**MEGUMA GROUP\*\***

**HALIFAX FORMATION:** finely laminated slate and siltstone.

**GOLDENVILLE FORMATION:** greenish-grey metawacke and minor interbedded siltstones.

**MIXED ROCKS:** granitized metasediments, migmatite and granitoid (probably metamorphosed Meguma Group rocks).

**SYMBOLS**  
(not all symbols occur on map)

Rock outcrop, probable outcrop, float, (all clasts)

Geological boundary (defined, approximate†, assumed, defined by till clasts)

Geological boundary — gradational (< 100 m; > 100 m)

Exposed intrusive contact (arrow pointing toward younger unit, age relation not determined)

Unconformity (hatching on younger side)

Limit of mineralogical or textural variation

Bedding (horizontal, inclined, vertical, overturned, dip unknown, younging direction unknown)

Anticline (defined, approximate, overturned)

Syncline (defined, approximate, overturned)

Preferred orientation of feldspar megacrysts (horizontal, inclined, vertical, dip unknown)

Schistosity, lineosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)

Breccia

Schlieren banding (horizontal, inclined, vertical, dip unknown) poorly developed isolated bands and well developed (thin and heavy lines respectively)

Lineament†† (from air photos)

Fault (defined, approximate, assumed, inclined, vertical)

Fault (sinistral, dextral)

Shearing and intense fracturing, fracture cleavage (horizontal, inclined, vertical, dip unknown)

Joint (horizontal, inclined, vertical, dip unknown)

Striations: sense of ice flow (known or unknown)

Dyke or vein: ALB-albite; APPG-aplite with minor pegmatite; DIAB-diorite; ELVA-elvan; LUGR-leucogranite; LUMZ-leucomonzogranite; LUPO-leucoporphry; MAP-mica apite; MONZ-monzogranite; PEGM-pegmatite; PEGMZ-zoned pegmatite; PGAP-pegmatite with minor apite; PORP-porphry; QTZ-quartz (indicated if mineralized); all unlabelled dykes are apites; < 1 m-thin lines, > 1 m-heavy lines (inclined, vertical, dip unknown)

Stockwork (type indicated)

Sheeted complex (type indicated)

Area of abundant dyking (type or map unit indicated)

Greisen: < 1 m, > 1 m (indicated if mineralized)

Megacryst-rich area

Xenoliths (< 1 m, > 10 m, concentration of xenoliths) map unit indicated when known

Diamond-drill hole††† (DDH; reference number from N.S.D.N.R. Open File Report)

Trench, adit, shaft

Mineral occurrence (commodities indicated at top; number on bottom refers to N.S.D.N.R. mineral occurrence cards)

Min. Prospect, Quarry (active, abandoned)

Skarn

\*LEUCOMONZOGRANITE: A granitoid rock of monzogranite composition with less than 6% combined mafic minerals.

\*PORPHYRY: A granitoid rock with predominantly fine-grained groundmass and medium- to coarse-grained phenocrysts (i.e. bimodal grain size). Phenocrysts rarely exceed 2 cm (adj. porphyritic).

\*PERCENT BIOTITE, MUSCOVITE, CORDIERITE: Percentage of biotite from point counting of rock slabs where indicated with \* otherwise from visual modal estimate. Percentage of muscovite and cordierite from visual modal estimates; note, percentage of muscovite is generally considerably higher from point counting of thin sections.

\*XENOLITH ABUNDANCE: Rare - local xenoliths in few outcrop; Common - a few xenoliths in most outcrop; Abundant - few to many xenoliths in all outcrops.

\*MEGACRYST: A non-genetic term for a crystal that is significantly larger than the surrounding groundmass. In the South Mountain Batholith megacrysts are predominantly subhedral to euhedral K-feldspar, and rarely plagioclase, crystals (generally between 2.5-7 cm in length) in a medium- to coarse-grained groundmass; adj. megacrystic.

\*MEGACRYST ABUNDANCE: Percentage of megacrysts from visual modal estimates.

\*MONZOGRANITE, GRANODIORITE, SYENOGANITE: After Streckeisen (1976). To each plutonic rock its proper name; Earth Science Review, v. 12, p. 1-33.

\*\*Geology of Meguma Group presented is primarily after Fairbairn, E.R., Armstrong, P. and Wilson, J.T. (1938), Geological Survey of Canada, Maps 436A, 437A and 438A, with local modification of granite-metasediment contacts.

Planimetric base from National Topographic Series, Department of Energy, Mines and Resources, Ottawa.

Updated from aerial photography that was available in May, 1988

NOVA SCOTIA DEPARTMENT OF NATURAL RESOURCES  
MINES AND ENERGY BRANCHES  
MAP 94-05  
GEOLOGICAL MAP OF  
**KEJIMIKUJIK LAKE**  
**NOVA SCOTIA**  
(N.T.S. SHEET 21A/06 and part of 21A/07)  
**SOUTH MOUNTAIN BATHOLITH PROJECT**  
R. J. HORNE and M. C. COREY

SCALE 1 : 50 000

kilometres 1 0 1 2 3 4 kilometres  
miles 1 0 1 2 miles

NOVA SCOTIA DEPARTMENT OF NATURAL RESOURCES  
HONOURABLE DONALD R. DOWNE  
MINISTER

DARRLE D. HILT  
DEPUTY MINISTER

HALIFAX, NOVA SCOTIA  
1984

Location Map

YARMOUTH 47°15' 66°00' 44°15'

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