

Copies of this map may be obtained from the Geological Survey of Canada, 600 Booth Street, Ottawa, Ontario K1A 0E8, 3303-33rd Street N.W., Calgary, Alberta T2L 2A7, 100 West Pender Street, Vancouver, B.C. V6B 1R6

MAP 5-1990

**YAKOUN LAKE**  
BRITISH COLUMBIA

Scale 1:50 000 - Échelle 1/50 000

Kilometres 1 2 3 4 Kilomètres

Universal Transverse Mercator Projection  
Projection transverse universelle de Mercator

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INDEX MAP - LIEU DE LA CARTE

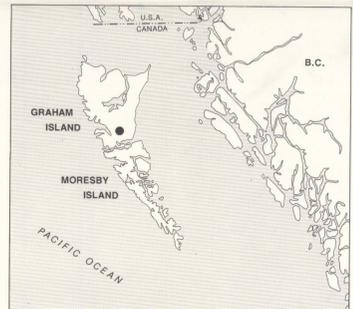
103 F/10	103 F/9	103 G/12
103 F/7	103 F/8	103 G/5
103 F/2	103 F/1	103 G/4

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE  
SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

**LEGEND**

Coloured legend blocks indicate map units that appear on this map.

- QUATERNARY**
- Q** Recent alluvium, Pleistocene till, marine drift
- TERTIARY**
- UPPER OLIGOCENE TO LOWER PLEISTOCENE**
- Ts** SEONUK FORMATION: sandstone, conglomerate, shale, coal
- UPPER OLIGOCENE TO LOWER PLEISTOCENE**
- Tm** MASSET FORMATION (mainly Graham Island): dominantly aphyric, mafic to felsic flows and pyroclastics; local epilitic interbeds. Felsic rocks contain feldspar phenocrysts with or without quartz, pyroxene and biotite
  - Tm1** Felsic unit undifferentiated: dacite to rhyolite flows, domes and pyroclastics; minor intercalated mafic flows and epilitic rocks. Felsic rocks contain feldspar phenocrysts with or without quartz, pyroxene and biotite
  - Tm2** Mafic unit undifferentiated: basalt, basaltic andesite and andesite flows; minor felsic flows, pyroclastics and interflow breccias; rare sedimentary intercalations. Mafic flows and breccias contain feldspar phenocrysts with or without pyroxene, rare olivine and biotite
  - Tm3** Sedimentary rocks undifferentiated: reworked epilitic rocks and tuffs
- Eocene and Oligocene**
- Y** Unnamed volcanic rocks (Moresby Island and southern Graham Island; may contain some MASSET FORMATION); intercalated mafic to felsic lava flows and pyroclastic rocks; local epilitic interbeds
  - Tk** Kao plutonic suite (U-Pb: 27-46 Ma; K-Ar: 24-40 Ma): fine-grained, seriate and locally micritic hornblende-biotite quartz monzonite, biotite granite, biotite-hornblende quartz diorite, hornblende gabbro; hornblende-biotite-plagioclase porphyry; rare agmatite
  - D** Dikes (K-Ar: 43.7 Ma): andesite, basalt, some felsic rocks; fine- to medium-grained, aphyric, diabasic texture; rare feldspar and/or hornblende phenocrysts
  - Sh** Unnamed shale: black fissile shale; sandstone; minor conglomerate and coal
- CRETACEOUS**
- LOWER AND UPPER CRETACEOUS**
- QCH** QUEEN CHARLOTTE GROUP (K-H-KH) SANDSTONES
  - QKsh** Unnamed shale: black fissile shale; shale with calcareous concretions; rare sandstone
- CONIACIAN and younger**
- uKv** Unnamed volcanic unit: feldspar-phyric andesite flows and pyroclastics
  - uKHo** HOWNA FORMATION: conglomerate, sandstone, minor shale
- ALBIAN to LOWER TURONIAN**
- Khs** HAIDA and SKIDEGATE FORMATIONS undivided: sandstone, shale
  - Ks** SKIDEGATE FORMATION: thin to massive sandstone with interbedded shale
  - KH** HAIDA FORMATION undivided: sandstone, shale
  - KHsh** UPPER HAIDA FORMATION: shale and concretionary shale
  - KHl** LOWER HAIDA FORMATION: sandstone and concretionary sandstone
- UPPER JURASSIC and LOWER CRETACEOUS**
- uKl** TITHONIAN to APTIAN
  - uKl** LONGARM FORMATION: sandstone, conglomerate and pebbly sandstone; shale, concretionary shale, minor sandstone
- JURASSIC**
- MIDDLE to LATE JURASSIC**
- mJb** Burnside Island plutonic suite (U-Pb: 158-165 Ma; K-Ar: 145-164 Ma): medium-grained, equigranular, intensely veined biotite-hornblende quartz monzonite; hornblende-biotite quartz monzonite; muscovite-biotite trochiliform-hornblende gabbro and diorite
  - mJsc** Sari Christoval plutonic suite (U-Pb: 171-172 Ma; K-Ar: 145-166 Ma): medium-grained, equigranular, mafic inclusion-bearing (biotite) hornblende quartz diorite, quartz monzonite and diorite; unit includes Hunter Point, Kincaid Point and Bedford agmatite complexes; foliated inclusions and prismatic hornblende are characteristic
- MIDDLE JURASSIC**
- mJm** UPPER BATHONIAN and LOWER CALLOVIAN
  - mJm** MORESBY GROUP: sandstone; conglomerate
  - mJv** LOWER BAJOCCIAN
  - mJv** YAKOUN GROUP: sandstone and minor shale; breccia; flows; conglomerate
- LOWER JURASSIC**
- lJm** MAUDE GROUP: (J3 - J2): fissile shale; fine- to medium-grained sandstone; minor limestone
  - lJp** TOARCIAN and LOWER AALENIAN
  - lJp** PHANTOM CREEK FORMATION: fine- to coarse-grained fossiliferous sandstone
  - lJw** LOWER and MIDDLE TOARCIAN
  - lJw** WHITEAVES FORMATION: shale containing septarian and limestone nodules; minor sandstone
  - lJf** PLENBACHIAN and LOWER TOARCIAN
  - lJf** FAWNH FORMATION: tuffaceous sandstone; shale containing septarian nodules; limestone; minor limestone
  - lJg** UPPER SINEMURIAN and LOWER PLENBACHIAN
  - lJg** GHOST CREEK FORMATION: shale; siltstone; minor flaggy limestone
- UPPER TRIASSIC and LOWER JURASSIC**
- uTlJK** KURGA GROUP (uT3 - uT2): fine-grained sandstone; limestone
  - uTlJ** UPPER NORIAN to SINEMURIAN
  - uTlJ** SANDLANDS FORMATION: fine-grained sandstone; limestone; tuffaceous sandstone
  - uTl** UPPER CARNIAN to MIDDLE NORIAN
  - uTl** PERIL FORMATION and SADDLER LIMESTONE undivided: massive, grey, crystalline limestone; grey, medium-bedded limestone
  - uTl** LOWER to MIDDLE NORIAN
  - uTl** PERIL FORMATION: dark grey, medium-bedded limestone
  - uTl** UPPER CARNIAN and LOWER NORIAN
  - uTl** SADDLER LIMESTONE: massive, crystalline, grey limestone; lesser secondary shaly
  - uTl** UPPER TRIASSIC
  - uTl** CARNIAN
  - uTl** KANMUTSEN FORMATION: basalt flows; breccia; tuff; minor limestone
- Geology by P.D. Lewis, 1987-1988 and J. Hesthammer, J. Indrelid and C.J. Hickson, 1988**
- Compiled by P.D. Lewis, J. Hesthammer, J. Indrelid and C.J. Hickson, 1989**
- Cartography by B. Sawyer, G. L'Esperance, R. Franklin and E. Yorath**



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Lewis, P.D., Hesthammer, H., Indrelid, J. and Hickson, C.J.  
1990. Geology, Yakoun Lake, British Columbia.  
Geological Survey of Canada, Map 5-1990, scale 1:50 000

