



LEGEND

FORMATIONS OF THE ST. ELIAS MOUNTAINS

- TERTIARY**  
PALEOCENE AND LATER  
23 Porphyritic latite, trachyte  
21, 22 21. Red-brown basalt and andesite, massive and vesicular; agglomerate, breccia, tuff; 21a, gabbro  
22. Volcanic boulder gravel and volcanic conglomerate; minor tuff, sandstone, shale, lava
- PALEOCENE  
20 Sandstone, sand, conglomerate, gravel, shale, coal
- CRETACEOUS**  
COAST INTRUSIONS  
18, 19 18. Hornblende-biotite granodiorite, quartz diorite, and diorite  
19. Alaskite, granite, porphyritic rhyolite; recrystallized basic volcanic rock, hornfels, quartz-mica schist, augen-gneiss, marble
- JURASSIC (?) AND CRETACEOUS  
UPPER JURASSIC (?) AND LOWER CRETACEOUS  
17 Banded argillite and greywacke, thin limestone bands; minor conglomerate; banded hornfels near intrusions
- TRIASSIC OR JURASSIC  
UPPER TRIASSIC OR JURASSIC  
16 Limestone, gypsum
- 15 Purple and green amygdaloidal andesite, basalt, volcanic breccia
- TRIASSIC**  
UPPER TRIASSIC  
14 Thin-bedded, shaly limestone, greywacke  
13 Limestone, commonly brecciated, gypsum
- MIDDLE (?) AND UPPER TRIASSIC  
12 Basalt, gabbro; minor interbedded argillite, greywacke, silty limestone, black shale, chert
- PERMIAN OR (?) LATER  
11 Gabbro, peridotite; minor banded chert
- PERMIAN**  
LOWER PERMIAN  
9, 10 9. Argillite, sandstone, grit, conglomerate, limestone, chert  
10. Limestone
- LOWER PERMIAN (?)  
8 Light and dark green, altered, basic lava, banded tuff, volcanic breccia; chlorite schist; minor banded greywacke-argillite, limestone, 8a, mainly greywacke, argillite, limestone, chert; relationship to units 9, 10 unknown; may include parts of formations 9-17
- DEVONIAN AND (?) LATER  
7 Greenstone, schistose greywacke, quartzite, slate, phyllite; minor sheared conglomerate, marble
- DEVONIAN  
MIDDLE DEVONIAN (?)  
6 Marble, slate; minor phyllite, greenstone

FORMATIONS OF THE YUKON PLATEAU

- 5 5a, rhyolitic tuff and breccia, rhyolite, latite; 5b, rhyolite, fine-grained granite; 5c, alaskite, granite, quartz monzonite
- 4 Biotite-hornblende granodiorite, hornblende diorite and gabbro; minor granodiorite-gneiss; 4a, contains many dykes and sills of rhyolite (5b)
- YUKON GROUP (1-3)  
3 Quartz-chlorite-sericite schist, epidote-actinolite greenstone, quartzite, slate, quartz-mica schist; limestone; 3a, recrystallized limestone; 3b, dunite  
2 Quartz-sericite-chlorite schist; minor quartzite  
1 Quartz-biotite schist, in places carrying garnet; quartz-feldspar-biotite gneiss; quartzite, amphibolite; minor recrystallized limestone; 1a, contains many dykes and sills of rhyolite (5b)

- Drift-covered area . . . . .
- Geological boundary (defined, approximate, assumed) . . . . .
- Bedding (horizontal, inclined, vertical) . . . . .
- Schistosity, gneissosity (horizontal, inclined, vertical) . . . . .
- Fault . . . . .
- Thrust fault (teeth in direction of dip; assumed) . . . . .
- Anticline (normal, overturned) . . . . .
- Syncline . . . . .
- Fossil locality . . . . .
- Mineral prospect (nickel, Ni; copper, Cu) . . . . .
- Mineral occurrence (fluorite, fl; gypsum, gyp; tungsten, W; coal, C) . . . . .
- Mining property adit (1, Canalak Nickel Mines; 2, Hudson Bay Mining and Smelting Co.) . . . . .
- Placer deposit (gold) . . . . .

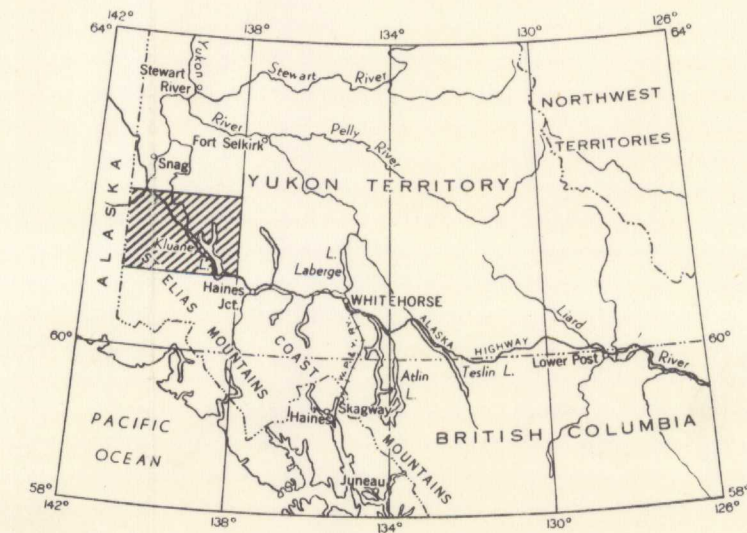
Geology by J.E. Muller, 1950-53, 1956-57; R.L. Christie, 1953

Air photographs covering this area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario

In response to public demand for earlier publication, Preliminary Series maps are now being issued in this simplified form, thereby effecting a substantial saving in time. There is no loss of information, but the maps will be clearer to read if all or some of the map-units are hand-coloured.

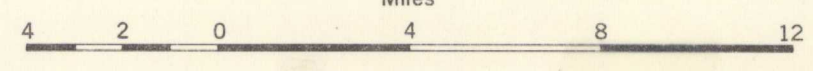


PUBLISHED 1958



MAP 19-1958  
(TO ACCOMPANY PAPER 58-9)  
**KLUANE LAKE  
YUKON TERRITORY**

Scale: One Inch to Four Miles =  $\frac{1}{253,440}$  Miles



COPIES OF THIS MAP MAY BE OBTAINED FROM THE DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

LEGEND

- Main highway . . . . .
- Roads (loose surface) . . . . .
- Former pack-route . . . . .
- Stream (position approximate) . . . . .
- Sand or gravel . . . . .
- Medial moraine . . . . . M
- Glacier, snowfield or ice-field . . . . . Gl., Ice-field
- Contours (interval 1000 feet) . . . . .
- Height in feet above mean sea-level . . . . . 2793

Approximate magnetic declination, 29°52' East

Cartography by the Geological Cartography Unit, 1958

MAP 19-1958  
**KLUANE LAKE  
YUKON TERRITORY**  
SHEET 115G, AND  
115F (East Half)

5-1-11 Kluane Lake, Yukon  
A. Geol.

Map 19-1958