



LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

- QUATERNARY RECENT**
 - 20 Unconsolidated glacial and fluvial clay, silt, sand, gravel; till; peat, muskeg
 - 19 Tufa, hot spring deposits
 - 18 Olivine basalt, ash, cinders
- TERTIARY PLEISTOCENE AND (?) EARLIER**
 - 17 Basalt, rhyolite, ash, tuff, agglomerate; locally may include ls, sh, phyllite, plastic siliceous tuff, chaotic rhyolite breccia
- Eocene**
 - 16 Basalt, rhyolite and associated volcanic rocks; minor conglomerate, sandstone, shale
- CRETACEOUS AND TERTIARY UPPER CRETACEOUS AND PALEOCENE**
 - 15 Conglomerate, sandstone, shale, minor coal
- CRETACEOUS POST LOWER CRETACEOUS**
 - 14 Volcanic rocks, breccia
- CRETACEOUS AND/OR EARLIER PRE UPPER CRETACEOUS**
 - 13 Mainly volcanic rocks; minor conglomerate, greywacke, chert, argillite
- JURASSIC AND CRETACEOUS UPPER JURASSIC AND LOWER CRETACEOUS**
 - 12 Argillite, greywacke, conglomerate, coal, ls, andesite, chert, tuff, conglomerate, shale, greywacke
- JURASSIC LOWER AND MIDDLE JURASSIC**
 - 11 Conglomerate, greywacke, grit, siltstone, shale; ls, may include younger rocks
- JURASSIC AND/OR EARLIER PRE UPPER JURASSIC**
 - 9 Mainly volcanic rocks; minor conglomerate, greywacke, argillite
 - 10 Mainly sedimentary rocks
- TRIASSIC**
 - 8 Tuff, siltstone, limestone, conglomerate, breccia
- PERMIAN AND/OR TRIASSIC**
 - 7 Volcanic and sedimentary rocks undivided; ls, mainly andesitic and basaltic volcanic rocks; flows, breccia, tuff breccia, tuff, ls, mainly greywacke, siltstone, conglomerate; sh, mainly limestone
- PERMIAN AND/OR EARLIER**
 - 6 Limestone, greenstone, chert, argillite, phyllite, quartzite, greywacke; meta-andesite and meta-diorite locally abundant near ultramafic bodies. May include younger greenstone, sh, Carboniferous or Permian, mainly andesitic flows, breccia, tuff, minor sedimentary rocks
- DEVONIAN AND MISSISSIPPIAN UPPER DEVONIAN AND MISSISSIPPIAN**
 - 5 Chert, argillaceous quartzite, argillite, greywacke, greenstone, conglomerate, limestone
- DEVONIAN MIDDLE DEVONIAN**
 - 4 Limestone, dolomite, quartzite
- ORDOVICIAN AND SILURIAN UPPER ORDOVICIAN AND LOWER SILURIAN**
 - 3 Limestone, cherty limestone, quartzite, red and green chert, shale
- CAMBRIAN AND ORDOVICIAN MIDDLE AND (?) UPPER CAMBRIAN, LOWER AND MIDDLE ORDOVICIAN**
 - 2 Shale, phyllite, slate, calcareous slate, limestone
- CAMBRIAN LOWER CAMBRIAN**
 - 1 Limestone, dolomite, quartzite, slate, phyllite

INTRUSIVE ROCKS

- A Feltsite, felsite porphyry
- B Mainly quartz monzonite, granodiorite, granite
- C Mainly diorite; minor gabbro
- D Granite porphyry, granophyre, syenite and related rocks
- E Serpentine, peridotite; locally includes meta-andesite and meta-diorite

METAMORPHIC ROCKS

- TRIASSIC OR EARLIER**
 - F Phyllite, sericite schist, hornfels, granulite, fine-grained biotite-hornblende gneiss; Fa, may include or be equivalent to 9
- PERMIAN AND/OR EARLIER PRE MIDDLE PERMIAN**
 - G Gs, Gneiss; Ch, phyllite, quartzite, minor crystalline limestone, highly altered and sheared greywacke and volcanic rock
- MAINLY CARBONIFEROUS AND PERMIAN**
 - H Biotite-quartz-feldspar gneiss, biotite-muscovite schist, crystalline limestone, greenstone, quartzite, phyllite
- MISSISSIPPIAN AND EARLIER**
 - J Gneiss, schist, crystalline limestone, crystalline dolomite, quartzite

- Geological boundary (defined, approximate, assumed)
- Limit of geological mapping
- Bedding (horizontal, inclined, vertical, overturned) (dip, g, gentle; m, medium; s, steep)
- Bedding, inclined (direction of tops unknown, over-tipping suspected)
- Schistosity, gneissosity (inclined, vertical, dip unknown)
- Fault (defined, approximate, assumed)
- Anticline (defined, approximate)
- Syncline (defined, approximate)
- Anticline, syncline (overturned)
- Trend of complexly folded beds (direction of plunge known, unknown)
- Belt of quartz diorite and quartz porphyry dykes
- Glacial striae (direction of movement known, unknown)
- Placer mine
- Mine or prospect
- Cinder cone or recent volcanic crater

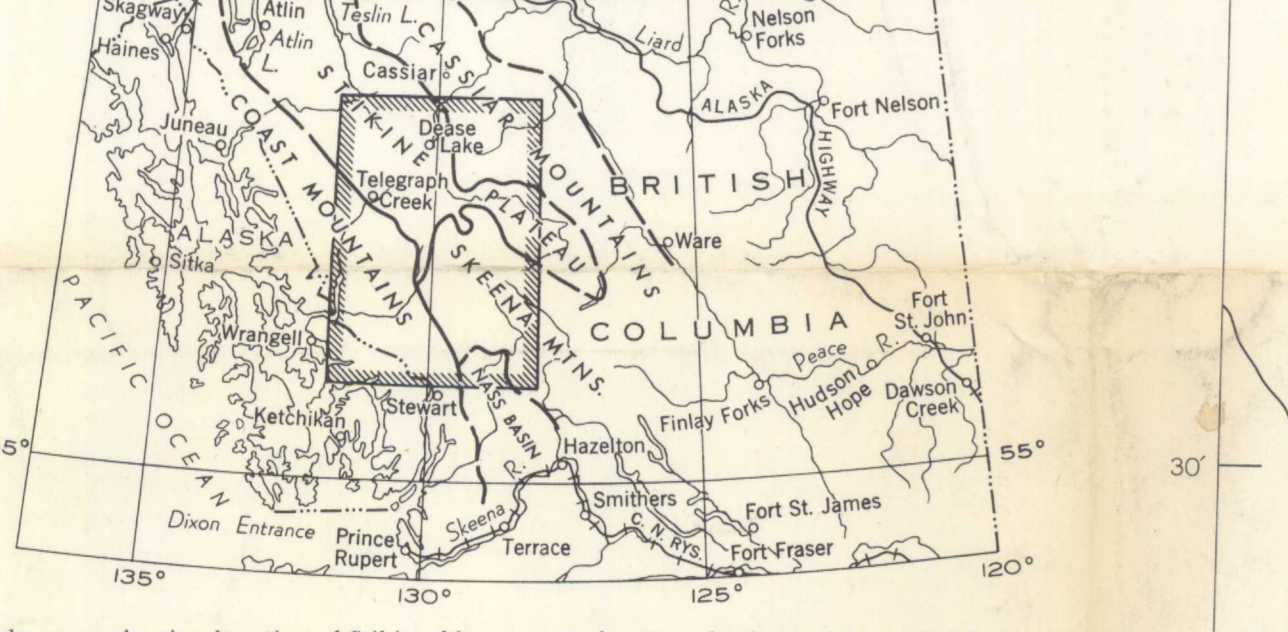
- Geology by officers of the Geological Survey of Canada; Operation Stikine 1956, and earlier surveys
- Road, tractor route
- Trail
- International boundary
- Intermittent stream
- Marsh
- Falls and rapids
- Glacier
- Contours (interval 1,000 feet)
- Height in feet above mean sea-level

Approximate magnetic declination, 30° 33' East

Cartography by the Geological Cartography Unit, 1957

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-colored.

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



Index map showing location of Stikine Map-area and major physiographic subdivisions.

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CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
GEOLOGICAL SURVEY OF CANADA

MAP 9-1957

STIKINE RIVER AREA
CASSIAR DISTRICT
BRITISH COLUMBIA

Scale: One Inch to Four Miles = 1/253,440 Miles

9-1957