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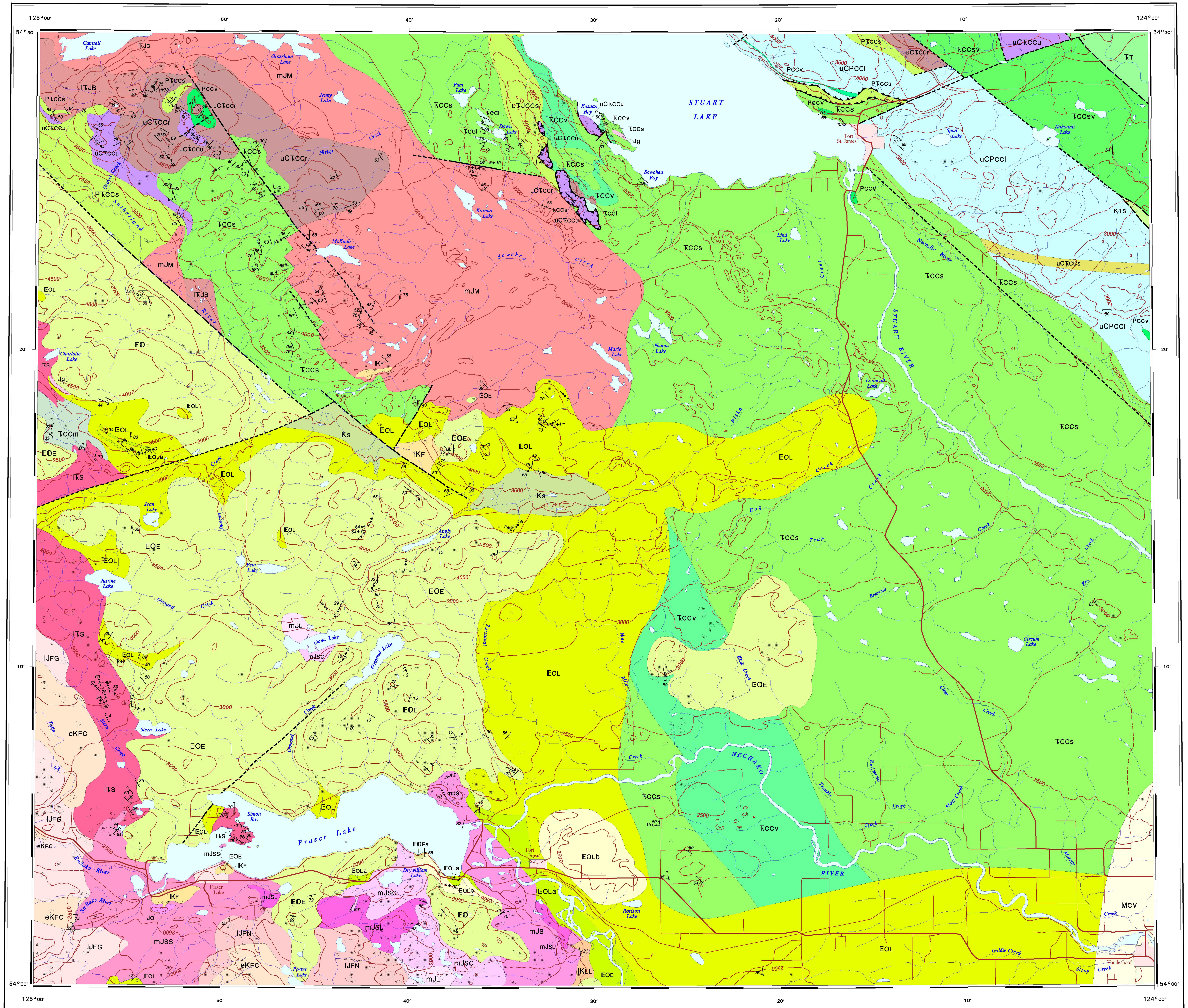
GEOLOGICAL SURVEY OF CANADA · COMMISSION GÉOLOGIQUE DU CANADA

Canada



LEGEND

TERTIARY

Miocene

MCV	Chilcotin Group: olivine-phyric basalt

Eocene - Oligocene

Endako Group (EOE - EOEs)

EOE	andesite, basalt, dacite, rhyodacite; flows, breccia, vesicular, amygduloidal
EOEs	siltstone, sandstone, coal, tuff

Eocene

Ootsa Lake Group (EOLb - EOLa)

EOLb	basalt, andesite
EOL	rhyodacite, rhyolite; flows, breccia, tuff, locally flow banded; includes some felsic subvolcanic intrusives
EOLa	arkosic sandstone, siltstone, coal, rhyolitic lapilli tuff, peat

MESOZOIC AND TERTIARY

Cretaceous - Paleocene

KTS	Sustut Group: chert conglomerate, sandstone, and siltstone

MESOZOIC

Cretaceous

KS	andesite plagioclase porphyry

Fraser Lake suite (IKF - IKLL)

IKF	Fraser phase: granodiorite, K-feldspar megacrystic
IKLL	Leg Lake phase: granite and granodiorite, pink, fine to medium grained

Early Cretaceous

eKFC	Casey phase: biotite granite, granodiorite, fine to medium grained

Late Jurassic

Francois Lake suite (IJFN - Jg)

IJFN	Nithi phase: biotite granite to granodiorite, K-feldspar megacrystic
IJFG	Glenannan phase: biotite granodiorite, porphyritic, K-feldspar megacrystic
Jg	granite

Middle Jurassic

Stag Lake suite (mJL - mJSL)

mJL	Limit phase: quartz monzonite and minor granodiorite
mJSC	Caledonia phase: quartz monzonite, K-feldspar megacrystic
mJS	Sugarloaf phase: granodiorite, subporphyritic
JO	Overlander phase: hornblende biotite diorite to quartz diorite
mJSS	Stellako phase: quartz monzonite, minor granite and granodiorite
mJM	McKnab Lake pluton: biotite hornblende, quartz diorite and tonalite
mJSL	Stag Lake phase: gabbro and diorite

Late Triassic - Early Jurassic (?)

Boer plutonic suite (IŦS - IŦJB)

IŦS	Stern Creek phase: diorite, diorite, granodiorite gneiss
IŦJB	Boer phase: diorite, gabbro

Middle Triassic - Lower Jurassic

Takla Group

ŦT	andesite and basalt tuff, flows and breccia

PALEOZOIC AND MESOZOIC

Upper Carboniferous - Lower Jurassic

Cache Creek Group (uCŦCCs - uCŦCCu)

Middle Triassic - Lower Jurassic

Sowchea sequence (uŦJCCs - ŦCCv)

uŦJCCs	conglomerate, greywacke, and minor ŦCCs
ŦCCs	siltstone, siliceous argillite, ribbon chert, slate, intraformational siltstone, conglomerate, chert conglomerate
ŦCCl	limestone conglomerate, limestone, calcareous greywacke
ŦCCsv	rocks of units ŦCCv and ŦCCs
ŦCCv	andesite and basalt flow and tuff, greywacke

Permian - Triassic

PŦCCs	ribbon chert, siltstone, slate

Permian

PCCv	basalt, limestone, minor chert

Pennsylvanian - Permian

Mount Pope sequence

uCŦCCs	ribbon chert, minor siltstone
PCCv	basalt breccia, calcareous
uCPCCl	limestone, basalt, chert
uCŦCCr	Railway sequence: gabbro, basalt
uCŦCCu	Trembleur Ultramafics: pyroxenite, harzburgite, serpentinite, talc

Pennsylvanian - Jurassic

Babine Metamorphic Complex

(Cache Creek Group and Boer plutonic suite?)

ŦCCm	hornblende diorite, biotite-hornblende quartz diorite, biotite granodiorite, minor amphibolite

SYMBOLS

Geological contact (defined, approximate, assumed)

Faults
- unknown (defined, approximate, assumed)
- thrust (defined, approximate, assumed)

Roads
- hard surface
- loose surface
- logging

Trail, portage

Railway
- single track
- abondoned

Contour

Outcrop localities

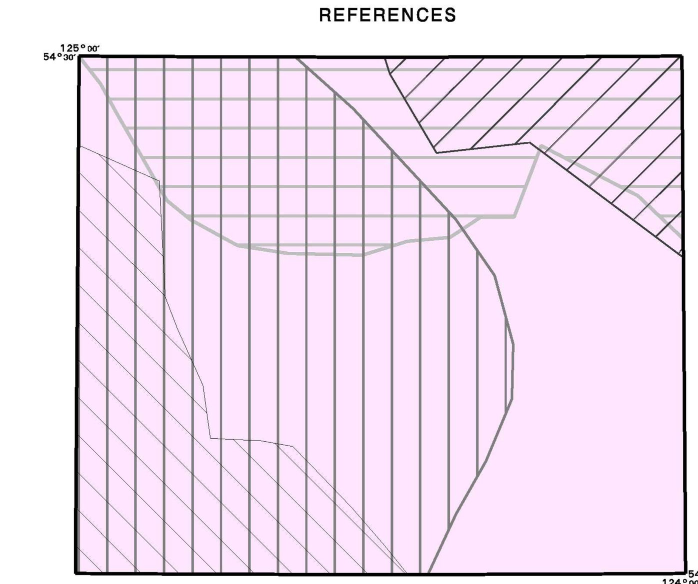
Bedding (polarity unknown)

Lineation

Foliation (first phase)

Fold axis

REFERENCES



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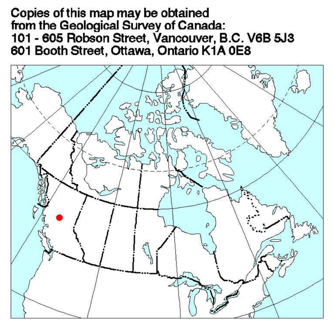

LOCATION MAP

Geology by J. Armstrong, C. Ash, R. Boyce, P. Buckley, G.D. Bysouth, J. Cyr, E.T. Kimura, R. LHeureux, J.M. Letwin, J. Nilson, I.A. Paterson J. Peters, L.C. Struik, and J. Whalen

Geological compilation by L.C. Struik

Digital cartography by Stephen P. Williams and Zohrab Mawani

Digital base map from Geomatics Canada published at a different scale. Generalized and modified by the Geological Survey of Canada.

Copies of the topographic version of this map may be obtained from the Canada Map Office, Natural Resources Canada, Ottawa, Ontario K1A 0E9

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

OPEN FILE 3559

BEDROCK GEOLOGY

FRASER LAKE

BRITISH COLUMBIA

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilomètres

Transverse Mercator Projection
CM 124°30′, Scale Factor 1.0

Projection transverse de Mercator
M.C. 124°30′, facteur d'échelle 1.0

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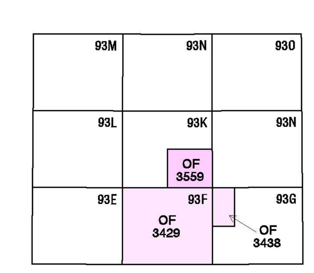
Magnetic declination 1997, 23°02′ East, decreasing 8.8′ annually. Readings vary from 22°47′E in the SE corner to 23°16′E in the NW corner of the map.

North American Datum 1927

Elevation in feet above mean sea level

Contour interval 500 feet

Published 1997



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COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA

January 1998

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1998: Bedrock geology of the Fraser Lake (93K/SE) map area, British Columbia; Geological Survey of Canada, Open File 3559, scale 1:100 000

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